KRINO
CUTTING TOOLS



CATALOGO GENERALE 2023


KRINO
CUTTING TOOLS



LA NOSTRA STORIA
OUR HISTORY

Krino S.p.A. cresce e si sviluppa nel cuore del Lecchese, luogo con un'antica tradizione nella lavorazione dei metalli. Fondata nel 1982 a Montevecchia, appartiene ad un parco industriale specializzato nella produzione di utensili da taglio per utilizzi professionali e hobbistici, affermandosi presto sul mercato. Lo sviluppo delle attività ha portato alla costruzione di un nuovo insediamento industriale a Monticello Brianza, contribuendo all'espansione della produzione delle linee di utensili, mantenendo alti standard qualitativi made in Italy nel pieno rispetto della sensibilità ambientale.

Krino S.p.A. was born and established in the heart of the Lecco area, a place with an ancient tradition in metalworking. Founded in 1982 in Montevecchia, it belongs to an industrial park specializing in the production of cutting tools for professional and hobbyist uses, soon establishing itself on the market. The development of activities led to the construction of a new industrial site in Monticello Brianza, contributing to the expansion of the production of tool lines, maintaining high quality standards made in Italy while fully respecting environmental sensitivity.



VISIONE
VISION

La capacità di prevedere cosa accadrà e cosa potrebbe accadere: il nostro marchio si è reinventato negli anni, prestando particolare attenzione a richieste del mercato e dei clienti, sempre in anticipo sui tempi.

The ability to predict what will happen and what might happen: our brand has reinvented itself over the years, paying special attention to market and customer demands, always ahead of its time.

MISSIONE
MISSION

Da sempre siamo attenti a fornire ai clienti tutte le informazioni di cui hanno bisogno, il valore della nostra offerta è determinato dall'accurata ricerca di prodotti che soddisfano elevati standard di eccellenza e affidabilità.

We have always been careful to provide customers with all the information they need; the value of our offerings is determined by the careful search for products that meet high standards of excellence and reliability.

VALORI
VALUES

I nostri prodotti e la nostra azienda sono il riflesso delle nostre azioni e idee imprenditoriali. Costantemente orientati al miglioramento, ma fortemente legati alle nostre convinzioni, l'essenza di Krino deriva dall'integrità delle nostre azioni quotidiane.

Our products and our company are a reflection of our entrepreneurial actions and ideas. Constantly striving for improvement, yet strongly attached to our beliefs, the essence of Krino comes from the integrity of our daily actions.


BUREAU VERITAS
Certification

KRINO SPA

Via Italia Unita, 21 - 23876 MONTICELLO BRIANZA (LC)

Il dettaglio dei siti oggetto di certificazione è in allegato al presente certificato

Bureau Veritas Italia S.p.A. certifica che il sistema di gestione dell'organizzazione sopra indicata è stato valutato e giudicato conforme ai requisiti della norma di sistema di gestione seguente

ISO 9001:2015

Campo di applicazione

Ricerca, progettazione e produzione di utensili da taglio e utensili per avvitatori.

Settore/i IAF: 17

Data della certificazione originale:	25 ottobre 2002
Data di scadenza precedente ciclo di certificazione:	15 ottobre 2020
Data dell'Audit di certificazione / rinnovo:	29 luglio 2020
Data d'inizio del presente ciclo di certificazione:	08 settembre 2020

Soggetto al continuo e soddisfacente mantenimento del sistema di gestione questo certificato è valido fino al: **15 ottobre 2023**

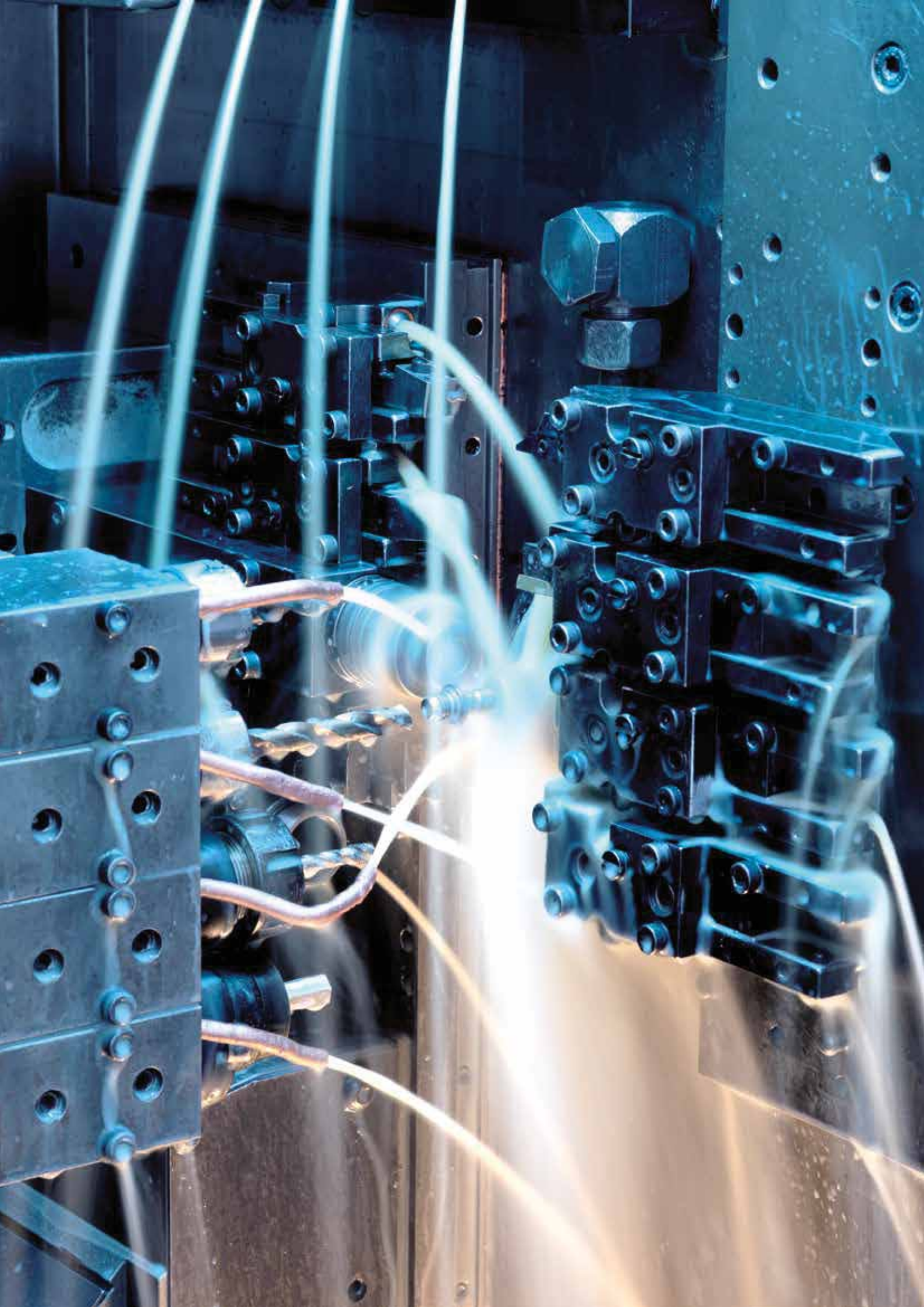
N° Certificato - Revisione: IT255526- 1 del: 08 settembre 2020

Local Technical Manager

Indirizzo dell'organismo di certificazione
Bureau Veritas Italia SpA Viale Monza, 347 - 20126 Milano, Italia

ACCREDIA

ISO 9001
BUREAU VERITAS
Certification



PRODUZIONE, AUTOMAZIONE, INNOVAZIONE, FORMAZIONE

PRODUCTION, AUTOMATION, INNOVATION, TRAINING

La Brianza, ha un'antichissima tradizione nella lavorazione dei metalli, nucleo di un potente sviluppo artigianale e, poi, industriale. La specializzazione è elevata, e ogni impresa ha una sua propria identità produttiva: lavorazione del metallo duro così come del superrapido, lavorazioni standard come quelle a disegno.

La Krino è orgogliosa di appartenere a questo parco tecnologico e di continuare questa tradizione, indice riconosciuto della qualità made in Italy. Oltre al catalogo dei prodotti standard a norme ISO, che contempla utensili standard tradizionali per utilizzi professionali ed hobbistici, sino a utensili innovativi e tecnologicamente avanzati per le lavorazioni industriali più difficoltose. Siamo in grado di produrre a richiesta utensili speciali a disegno.

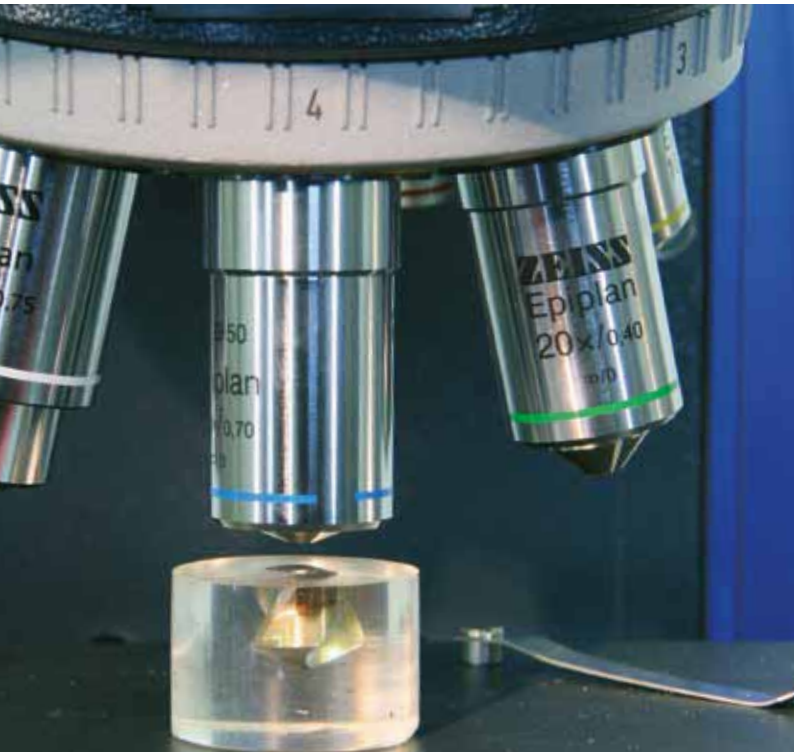
L'esperienza specifica più che trentennale nella produzione degli utensili da taglio in acciaio superrapido dei nostri ingegneri e dei tecnici di laboratorio permettono un'assistenza tecnica qualificata ai nostri clienti in tutte le problematiche che nascono nell'utilizzo industriale e professionale. La formazione del nostro personale è attuata direttamente con corsi specifici, sia all'interno della nostra azienda, così come presso le nostre associazioni di categoria come Confindustria. Corsi di formazione specifici sono inoltre effettuati, all'interno del nostro sito, rivolti alla nostra clientela; l'esperienza è sempre positiva e molto gradita.

Brianza, has an ancient tradition in metalworking, the nucleus of a powerful craft and, later, industrial development. Specialization is high, and each company has its own manufacturing identity: machining of hard metal as well as super-rapid, standard machining as well as those made to drawing.

Krino is proud to belong to this technological park and to continue this tradition, a recognized index of Made in Italy quality. In addition to the catalog of standard products to ISO standards, which contemplates traditional standard tools for professional and hobbyist uses, up to innovative and technologically advanced tools for the most difficult industrial machining. We are able to produce special tools according to drawings on request.

More than thirty years of specific experience in the production of super-rapid steel cutting tools of our engineers and laboratory technicians allow qualified technical assistance to our customers in all problems arising in industrial and professional use. The training of our personnel is implemented directly with specific courses, both within our company, as well as at our trade associations such as Confindustria. Specific training courses are also carried out, within our site, aimed at our customers; the experience is always positive and very welcome.

CONTROLLO QUALITÀ
QUALITY CONTROL



L'attrezzato laboratorio di controllo qualità garantisce l'intera produzione dei nostri utensili. Specifici ed accurati controlli metallurgici sugli acciai di produzione europea, effettuati prima e dopo il trattamento termico, assicurano elevate prestazioni degli utensili nella sicurezza più completa.

The modern and very well equipped quality laboratory, guarantees the full production of our cutting tools. Specific and precise tests made on steels, before and after heat treatment, allow high performance totally on safety.

PERSONALIZZAZIONE
CUSTOMIZE

Per raggiungere l'eccellenza nel servizio alla clientela offriamo oggi la possibilità di realizzare set e valigette con contenuti specifici: il nostro parco macchine si è infatti ampliato con una fresatrice taglia spugne che consente la realizzazione di sedi dedicate per l'inserimento di utensili e accessori su esigenza del cliente.

To achieve excellence in customer service we can offer you to create sets and cases with specific contents: our machine fleet has in fact been expanded with a sponge milling machine that allows the creation of dedicated seats for the insertion of tools and accessories on customer's request.



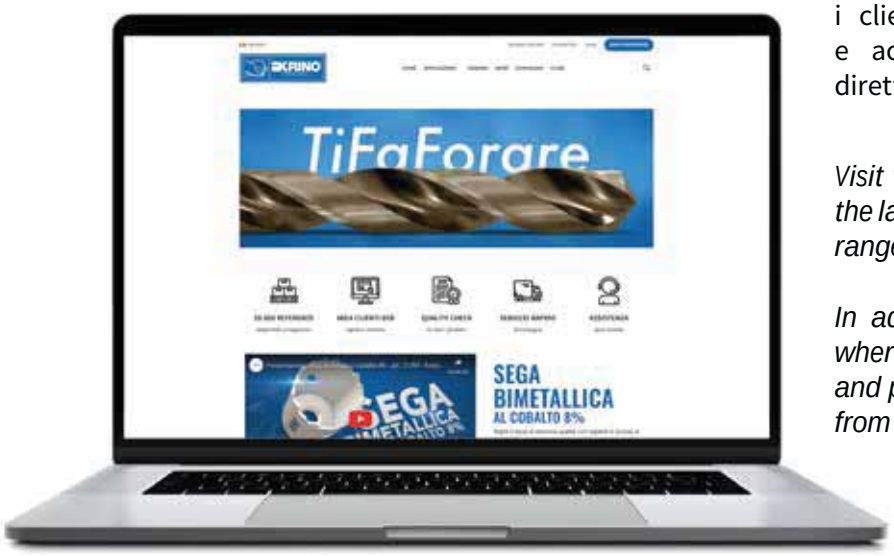
WWW.KRINO.IT

Visita il sito www.krino.it per rimanere aggiornato su tutte le novità di prodotto e scoprire tutta la gamma presente su questo catalogo.

Inoltre, sarà presente un'area riservata, dove i clienti registrati Krino potranno vedere e acquistare i prodotti che desiderano direttamente dal sito.

Visit www.krino.it to keep up to date with all the latest product news and discover the entire range featured in this catalog.

In addition, there will be a restricted area where registered Krino customers can view and purchase the products they want directly from the site.



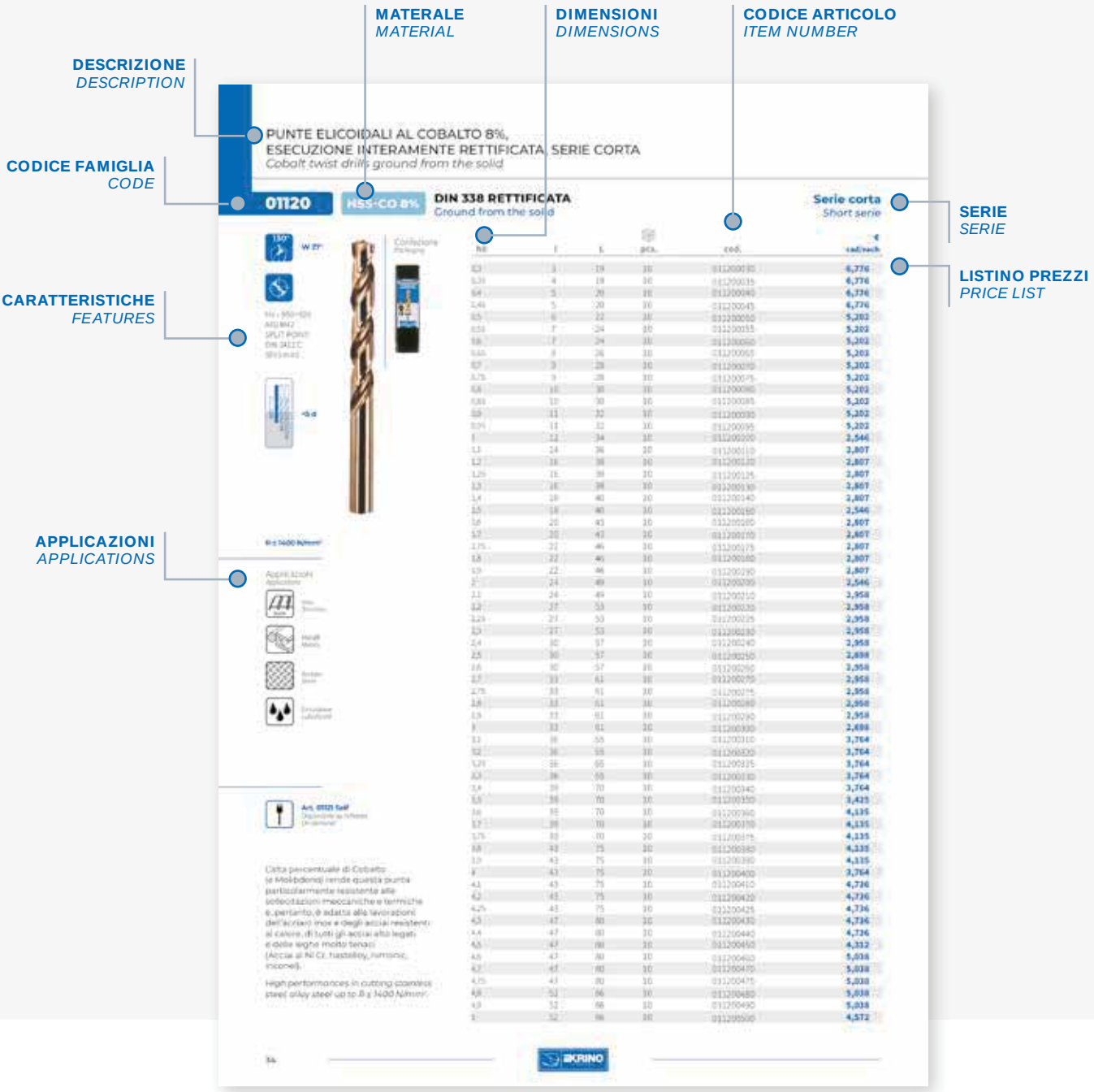
TiFaForare

Krino è presente anche sui social con tutorial, presentazioni di prodotto e tante altre idee, dimostrazione di un'azienda dinamica e al passo coi tempi che non si accontenta dei soliti standard comunicativi.

Krino is also present on social media with tutorials, product presentations and many other ideas, demonstration of a dynamic company that isn't satisfied with the usual communication standards.



@KrinoTools



La struttura schematica della pagina rende la consultazione del catalogo rapida ed immediata anche grazie alla fotografia del prodotto, corredata da codici specifici, dimensioni, caratteristiche, confezionamento base e norme d'impiego. L'operatore è facilitato nell'impiego degli utensili da simboli molto semplici che specificano le effettive capacità e modalità d'uso.

The catalogue is easy to consult, every page has item number, features, packaging and applications to the left side. To the right side appear: size, dimensions, code and gross price. The operator is helped to the tool choice by simple icons showing the real products purpose

LEGENDA
Legenda


Metalli
Metals


Acciaio
Steel



Inox
Stainless



Alluminio
Aluminum



Leghe leggere
Light alloys


Muro
Masonry


Calcestruzzo
Concrete


Pietra
Natural Stones


Piastrella standard
Standard tile



Ferro
Iron


Plastica
Plastic


Bronzo
Bronze


Ghisa
Cast Iron


Legno
Wood


Pallet


Truciolato
Chipboard


Multistrato
Multilayer


Multistrato
Multilayer


Legno /chiodi
Wood / nails


Legno vivo
Green wood


Sandwich
Sandwich


Pelli
Leather


GFRP



Plexiglass


Tegole
Tiles


Vetro
Glass


Cartone
Carton


Mattone
Brick


Grès porcellanato
Porcelain stoneware


Grès smaltato
Glazed stoneware


Grès
Stoneware


Marmo
Marble


Granito
Granite


Rame
Copper


Moquette


Truciolo lungo
Long chip


Truciolo corto
Short chip


Olio
Oil


Emulsione
Lubrificant


Percussione
Rotary percussion


No Percussione
Rotary cut


Acqua
Water


No Acqua
No water


Trapano
Drill


Avvitatore
Screwdriver


SDS Plus


SDS Max


Magnetico
Magnetic


A colonna
Drill press


Revesibile
Revesible



Migliore qualità
Top quality


Su richiesta
On demand


In esaurimento
Running out

LAVORARE IN SICUREZZA
Safety works



Notevole e costante cura è stata dedicata alla costruzione dei nostri utensili, una qualità che significa massima efficienza ed, insieme totale sicurezza per gli utilizzatori. Rendimenti elevati si ottengono solo con un corretto utilizzo dell'utensile. Per questo motivo, invitiamo ad una scelta appropriata dell'utensile, prima di intraprendere una qualsiasi operazione di taglio, avvalendosi delle informazioni specifiche contenute nel catalogo, sulle confezioni dei prodotti e della consulenza tecnica diretta dei tecnici aziendali. Un corretto utilizzo significa anche e soprattutto usare sempre tutte le protezioni di sicurezza individuali richiesta dallo specifico lavoro. La vostra salute è un bene prezioso, difendetela.

A special care has been dedicated during the production of our tools, quality means perfect working order and total safety for the hand users. High performance are possible only with the right use of the tools. For this reason we invite you, before starting with any kind of cutting operation to choose the right tool thanks to the information given by this catalogue or on the products packaging and, when necessary directly from our technical staff. Always use the individual safety protections required by the specific work. Your health is precious, protect it!

UTENSILI PER IL TAGLIO DEI METALLI
METAL CUTTING TOOLS

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PUNTE PER IL TAGLIO DEI METALLI
Metal cutting twist drills



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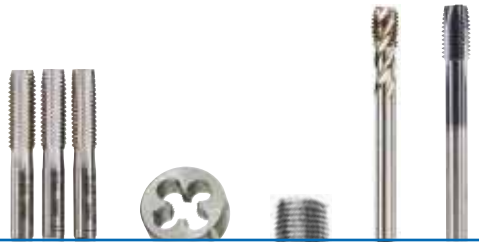
UTENSILI CONICI, FRESE E SEGHE A TAZZA
PUNTE A GRADINO E SVASATORI
Conical drill bits, hole cutters and hole saws
subland twist drills and countersinks



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MASCHI E FILIERE
Taps and dies



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410-495

ALESATORI, FRESE FRONTALI,
UTENSILI SALDOBRASATI, FRESE ROTATIVE
E LAME DA TAGLIO
Reamers, end mills, brazed tools,
rotary burrs and cutting blades



UTENSILI DA TAGLIO PER EDILIZIA
BUILDING AND CONSTRUCTION TOOLS



496-553

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UTENSILI PER MATERIALI EDILI
Building and contruction tools

UTENSILI PER IL TAGLIO DEL LEGNO
WOODWORKING TOOLS



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UTENSILI PER IL TAGLIO DEL LEGNO
Woodworking tools

UTENSILI PER IL TAGLIO DEI METALLI
METAL CUTTING TOOLS

VISIONE D'INSIEME: PUNTE PER METALLO CON CODOLO CILINDRICO 28
Overview: straight shank twist drills for metal cutting

PUNTE ELICOIDALI - SERIE CORTA
Twist drills - Short serie

cod.	DIN	material	page
01089	338	HM	30
01093	338	HM HSS	32
01120	338	HSS-CO 8%	34
01122	338 CR 10	HSS-CO 8%	36
01123	338 CR 13	HSS-CO 8%	36
01300	338	HSS-CO 5% TiAlN	38
01305	338	HSS-CO 5% TiAlN	39
01140	338	HSS-CO 5%	42
01139	338	HSS-CO 5%	47
01145	338	HSS-CO 5%	48
01147	338 CR 10	HSS-CO 5%	50
01146	338 CR 13	HSS-CO 5%	51
01157	ANSI B94 inches	HSS-CO 5%	55
01220	338	HSS-G	57
01401	338	HSS-G	59
01320	338 - 118°	HSS-G TiN	60
01160	338	HSS-G TiN	62
01163	338 CR 10	HSS-G TiN	64
01164	338 CR 13	HSS-G TiN	64
01162	ANSI B94 inches	HSS-G TiN	67
01201	338	HSS-G	68
01203	338 CR 10	HSS-G	70
01209	338 CR 13	HSS-G	70
01060	338	HSS-G	72
01062	338 CR 10	HSS-G	74
01063	338 CR 13	HSS-G	75
01090	338	HSS-G	76
01070	338	HSS-G	86
01072	338 CR 10	HSS-G	88
01074	338 CR 13	HSS-G	89
01115	ANSI B94 inches	HSS-G	95
01079	338	HSS-G	94
01066	338 - 118°	HSS-G	96
01350	338	HSS-G	100
01352	338 CR 10	HSS-G	102
01354	338 CR 13	HSS-G	103
01080	338	HSS-G	106
01082	338 CR 10	HSS-G	108
01084	338 CR 13	HSS-G	108
01001	338	HSS-R	110
01003	338 CR 10	HSS-R	112
01004	338 CR 13	HSS-R	113
01030	ANSI B94 inches	HSS-R	116
01034	ANSI B94 inches	HSS-R	117
01091	338	SPECIAL BRASS	118
01092	338	SPECIAL ALUMINIUM	119

SERIE EXTRA CORTA
Extra short serie

cod.	DIN	material	page
01119	1897	HM	31
01126	1897	HSS-CO 8%	37
01307	1897	HSS-CO 5% TiAlN	40
01143	1897	HSS-CO 5%	43
01149	1897	HSS-CO 5%	52
01051	NORMA KRINO	HSS-CO 5%	52
01148	~1897	HSS-CO 5%	53
01166	1897	HSS-G TiN	65
01207	1897	HSS-G	71
01094	1897	HSS-G	77
01095	~1897	HSS-G	79
01067	1897	HSS-G	78
01076	1897	HSS-G	90
01050	NORMA KRINO	HSS-G	91
01077	~1897	HSS-G	92
01022	1897	HSS-G	98
01356	1897	HSS-G	104
01087	1897	HSS-G	109
01018	1897	HSS-R	114

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Photographic index

SERIE LUNGA
Long serie

cod.		DIN	material	page
01128		340	HSS-CO 8%	37
01306		340	HSS-CO 5% TiAlN	41
01141		340	HSS-CO 5%	44
01152		340	HSS-CO 5%	54
01168		340	HSS-G TiN	66
01208		340	HSS-G	71
01096		340	HSS-G	80
01078		340	HSS-G	93
01358		340	HSS-G	105
01086		340	HSS-G	109
01020		340	HSS-R	115

SERIE EXTRA/SUPER LUNGA
Extra/Super long serie

cod.		DIN	material	page
01376		1869/1	HSS-CO 5%	45
01377		1869/2	HSS-CO 5%	45
01378		1869/3	HSS-CO 5%	46
01370		1869/1	HSS-G	83
01371		1869/2	HSS-G	84
01372		1869/3	HSS-G	84
01098		1869/1	HSS-G	81
01099		1869/2	HSS-G	82
01100		1869/3	HSS-G	82
01129		NORMA KRINO	HSS-G	83
01105		NORMA KRINO	HSS-G	85
01114		NORMA KRINO	HSS-G	85

PARABOLIC

VISIONE D'INSIEME: PUNTE GAMBO RINFORZATO E ATTACCO CONICO MORSE
Overview: reinforced shank twist drills and Morse taper shank 128

GAMBO RINFORZATO E CONICO MORSE
Reinforced shank twist drills and Morse taper shank

cod.		DIN	material	page
01368 01366		6537K	HM	130 131
01369 01367		6537L	HM	132 133
01213		345	HM HSS	134
01150		345	HSS-CO 5%	136
01097		345	HSS	138
01028		341	HSS	140
01088		1870/1	HSS	142
01069		341	HSS	141
01025		345	HSS-R	144

UTENSILI CONICI E A GRADINO
Conical and step drill bits

cod.		DIN	material	page
01182		-	HSS-G	148
01176		-	HSS-G C.V.	149
01206		-	HSS-G TiAlN	150
01200		-	HSS-G TiN	150
01180		-	HSS-G	151
01215		-	HSS-G	151
01248		-	HSS-G TiAlN	152
01244		-	HSS-G TiN	152
01240		-	HSS-G	153
01241		-	HSS-G	153
01236		-	HSS-G TiAlN	154
01230		-	HSS-G TiN	155
01183		-	HSS-G	155
01239		-	HSS-G	156
01254		-	HSS-G	157

TRAPANI A BASE MAGNETICA
Magnetic drills

cod.		page
28011		160

VISIONE D'INSIEME: FRESE E SEGHE A TAZZA
Overview: Hole saws 168

FRESE A CAROTARE
Annular cutter

cod.			material	page
21216		Weldon	TCT	170
21212		Quick-in®	TCT	171
21218		Weldon	TCT	172
21211		Quick-in	HSS-CO 5%	173
21206		Weldon	HSS-CO 5%	174
21207		Weldon	HSS-CO 5%	175
21200		Weldon	HSS-G	176
21202		Weldon	HSS-G	177

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FRESE PERFORATRICI
Hole saws

cod.		material	page
21042		TCT	178
21040		TCT	179
21043		TCT	180
21011		HSS-CO 5%	181
21325		HSS-G TiAlN	182
21300		HSS-G TiN	183
21001		HSS-G	184

SEGHE A TAZZA
Bimetal hole saws

cod.		material	page
05078		TCT	187
21100		TCT	186
21105		MD	188
21090		HSS-CO 8% M42	190
21058	 BIMASTER	HSS M3	195
21060		HSS M3	196
21061		HSS M3	200
21067		HSS M3	201
21070	 K-LOCK		195
			197

BLU-MOL®

21073		HSS-CO 8% M42	204
21065		HSS-CO 8% M42	205
21069		HSS-CO 8% M42	208
26070			209

PUNTE A GRADINO E SVASATORI
Subland twist drills and countersinks

cod.		DIN	material	page
01103		8376 - 180°	HSS-G	214
01059		8376 - 180°	HSS-G	214
01104		8377 - 180°	HSS-G	214
01273		373 - 180°	HSS-G	215
01274		373 - 180°	HSS-G	215
01277		373 - 180°	HSS-G TiAlN	215
01101		8374 - 90°	HSS-G	216
01058		8374 - 90°	HSS-G	216
01102		8375 - 90°	HSS-G	216
01117		8378 - 90°	HSS-G	217
01057		8378 - 90°	HSS-G	217
01272		373 - 180°	HSS-G	217
01110		333/A - 60°	HSS-G	218
01214		333/A - 60°	HSS-G TiN	218
01374		333/A - 60°	HSS-G	218
01375		333/A - 60°	HSS-G	219
01112		333/B 60°/120°	HSS-G	219
01217		333/B 60°/120°	HSS-G TiN	219
01111		333/Raggio	HSS-G	220
01216		333/Raggio	HSS-G TiN	220
01361		90°	HM	221
01363		120°	HM	221
01364		90°	HSS-G	221
01365		120°	HSS-G	221
01264		335/C-90°	HM TiAlN	222
01263		335/C-90°	HM	222
01265		335/C-90° asimmetrico	HSS-G	223
01267		335/C-90° asimmetrico	HSS-CO 5%	224
01266		335/C-90° asimmetrico	HSS-G	224
01262		335/C-90°	HSS-CO 5% TiAlN	225
01261		335/C-90°	HSS-CO 5%	225
01260		335/C-90°	HSS-G TiN	226
01185		335/C-90°	HSS-G	227
19003		335/C-90°	HSS-G	228
19001		335/C-90°	HSS-G	228
01193		335/C-90°	HSS-G	229
01196		335/D-90°	HSS-G	229
01192		335/C-90°	HSS-G	230
01188		90°	HSS-G	230
01197		75°	HSS-G	231
01186		335/C-60°	HSS-G	231
01187		335/C-90°	HSS-G	232
01190		40°	HSS-G	232
01169		≈ 1897	HSS-CO 5% TiN	234
01171		≈ 1897	HSS-CO 5%	234
01179		-	HM TiAlN	235
01173		-	HSS-CO 5% TiN	235
01172		-	HSS-CO 5%	235

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cod.		DIN	material	page
01174		-	HSS-G	236
01175		-	HSS-G	236
01342			HM	237

VISIONE D'INSIEME: MASCHI A MACCHINA
Overview: Machine taps 240

MASCHI A MACCHINA
Machine taps

cod.		DIN	material	fil /th	p.
10400		371/B	HSS-CO 5% TiAlN	M	244
10401		376/B	HSS-CO 5% TiAlN	M	244
10404		371/C-35°	HSS-CO 5% TiAlN	M	245
10405		376/C-35°	HSS-CO 5% TiAlN	M	245
10350		371/B	HSS-CO 5% TiN	M	246
10351		376/B	HSS-CO 5% TiN	M	246
10354		371/C-35°	HSS-CO 5% TiN	M	247
10355		376/C-35°	HSS-CO 5% TiN	M	247
10362		371/B 376/B	HSS-CO 5% TiN	M	248
10363		371/C-40°	HSS-CO 5% TiN	M	248
10515		371/B 376/B	HSS-CO 5%	M	249
10516		371/C-40°- 376/C-40°	HSS-CO 5%	M	250
10504		371/B	HSS-CO 5%	M	251
10505		376/B	HSS-CO 5%	M	251
10506		371C-40°	HSS-CO 5%	M	252
10507		376C-40°	HSS-CO 5%	M	252
10500		371/B	HSS-CO 5%	M	253
10501		376/B	HSS-CO 5%	M	253
10502		371C-40°	HSS-CO 5%	M	254
10503		376C-40°	HSS-CO 5%	M	254
10510		371/A	HSS-CO 5%	M	255
10511		371/C-40°	HSS-CO 5%	M	256
10512		376/C-40°	HSS-CO 5%	M	256
10508		371/C	HSS-CO 5%	M	257
10509		376/C	HSS-CO 5%	M	257
10513		371/C	HSS-CO 5%	M	258
10514		376/C	HSS-CO 5%	M	258
10297		371/B	HSS-CO 5% VAPO	M	259
10298		376/B	HSS-CO 5% VAPO	M	259
10299		371/C-35°	HSS-CO 5% VAPO	M	260
10300		376/C-35°	HSS-CO 5% VAPO	M	260
10250		371/B	HSS-CO 5%	M	261
10253		376/B	HSS-CO 5%	M	261

cod.		DIN	material	fil /th	p.
10251		371/C	HSS-CO 5%	M	262
10254		376/C	HSS-CO 5%	M	262
10256		371/C-15°	HSS-CO 5%	M	263
10258		376/C-15°	HSS-CO 5%	M	263
10255		371/C-35°	HSS-CO 5%	M	264
10257		376/C-35°	HSS-CO 5%	M	264
10291		371/B	HSS-CO 5%	M	265
10292		371/C-35°	HSS-CO 5%	M	265
10340		371/C	HM	M	266
10330		371/C-40°	HSS-CO 5%	M	266
10261		371/B	HSS-CO 5%	M	267
10262		376/B	HSS-CO 5%	M	267
10277		371/B	HSS-CO 5%	M	268
10278		376/B	HSS-CO 5%	M	268
10263		371/C	HSS-CO 5%	M	269
10264		376/C	HSS-CO 5%	M	269
10279		371/C-35°	HSS-CO 5%	M	270
10288		376/C-35°	HSS-CO 5%	M	270
10280		2174	HSS-CO 5%	M	271
10360		2174	HSS-CO 5% TiN	M	271
10281		2174	HSS-CO 5%	M	272
10361		2174	HSS-CO 5% TiN	M	272
10310		371/B - 376/B	HSS-CO 5%	M	273
10313		371/C-35°	HSS-CO 5%	M	273
10311		371/B - 376/B	HSS-CO 5%	M	274
10314		371/C-35° - 376/C-35°	HSS-CO 5%	M	274
10312		371/B - 376/B	HSS-CO 5%	M	275
10315		371/C-35° - 376/C-35°	HSS-CO 5%	M	275
10273		357	HSS-CO 5%	M	276
10290		357	HSS-CO 5%	M	276
10259		374/B	HSS-CO 5%	MF	277
10252		374/C	HSS-CO 5%	MF	278
10260		374/C-35°	HSS-CO 5%	MF	279
10286		374/B	HSS-CO 5%	MF	280
10287		374/C-35°	HSS-CO 5%	MF	281
10268		5156/B	HSS-CO 5%	BSP	282
10276		5156/C	HSS-CO 5%	BSP	282
10267		5156C-35°	HSS-CO 5%	BSP	283
10289		5156/C	HSS-CO 5%	BSP	283

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cod.		DIN	material	fil /th	p.
10294		-	HSS-CO 5%	BSPT	284
10265		371/B	HSS-CO 5%	BSW	285
10266		376/B	HSS-CO 5%	BSW	285
10274		371C-35°	HSS-CO 5%	BSW	286
10275		376C-35°	HSS-CO 5%	BSW	286
10293		-	HSS-CO 5%	NPT	287
10308		-	HSS-CO 5%	NPS	288
10309		-	HSS-CO 5%	NPS	288
10306		-	HSS-CO 5%	NPTF	289
10307		-	HSS-CO 5%	NPTF	289
10301		529-2B	HSS-CO 5%	8-UN	290
10269		ANSI B1.1	HSS-CO 5%	UNC	291
10270		ANSI B1.1	HSS-CO 5%	UNC	291
10271		ANSI B1.1	HSS-CO 5%	UNC	292
10272		ANSI B1.1	HSS-CO 5%	UNC	292
10282		ANSI B1.1	HSS-CO 5%	UNF	293
10283		ANSI B1.1	HSS-CO 5%	UNF	293
10284		ANSI B1.1	HSS-CO 5%	UNF	294
10285		ANSI B1.1	HSS-CO 5%	UNF	294
10305		529	HSS-CO 5%	UNEF	295
10162		371/B	HSS-G	M	296
10165		376/B	HSS-G	M	296
10168		371/C	HSS-G	M	297
10171		376/C	HSS-G	M	297
10174		371/C-15°	HSS-G	M	298
10177		376/C-15°	HSS-G	M	298
10183		371/C-35°	HSS-G	M	299
10180		376/C-35°	HSS-G	M	299
10172		529/B	HSS-G	M	300
10173		529/C-35°	HSS-G	M	300
10230		-	HSS-G TiN	M	301
10212		-	HSS-G	M	301
10210		-	HSS-G	M	302
10198		374/C-15°	HSS-G	MF	302
10204		374/C-15°	HSS-G	BSP	303
10139		-	HSS-G	BSPT	303
10134		ANSI B2.1	HSS-G	NPT	303

VISIONE D'INSIEME: MASCHI A MANO 306
Overview: Hand taps

MASCHI A MANO
Machine taps

cod.		DIN	material	fil /th	p.
10147		352	HSS-CO 5% VAPO	M	308
10144		352	HSS-CO 5%	M	308
10146		2181	HSS-CO 5%	MF	309
10148		5157	HSS-CO 5%	BSP	309
10155		352	HSS-G TiN	M	311
10100		352	HSS-G	M	310
10100		352	HSS-G	M	310
10102		352	HSS-G	M	311
10105		2181	HSS-G	MF	312
10105		2181	HSS-G	MF	312
10107		2181	HSS-G	MF	314
10115		5157	HSS-G	BSP	315
10117		5157	HSS-G	BSP	315
10139		-	HSS-G	BSPT	303
10112		2181	HSS-G	BSF	316
10110		352	HSS-G	BSW	317
10111		352	HSS-G	BSW	317
10134		ANSI B2.1	HSS-G	NPT	303
10120		352	HSS-G	UNC	319
10122		352	HSS-G	UNC	319
10125		2181	HSS-G	UNF	320
10127		2181	HSS-G	UNF	320
10136		40432	HSS-G	Pg	321
10612		ISO 1/4 H	HSS-G	M + MF	405
10617		-	HSS-G	BSP	406
10616		-	HSS-G	BSF	406
10615		-	HSS-G	BSW	406
10613		-	HSS-G	UNC	406
10614		-	HSS-G	UNF	406
10620		-	HSS-G	M + MF	405
10001		4535	C.V.	M	322
10001		4535	C.V.	M	322
10030		357	C.V.	M	323
10003		4535	C.V.	M + MF	324
10003		4535	C.V.	MF	324
10015		338	C.V.	BSP	326
10017		6125	C.V.	BSPT	326
10012		2709	C.V.	BSF	326
10010		2709	C.V.	BSW	327

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cod.		DIN	material	fil /th	p.
10032		ANSI B2.1	C.V.	NPT	327
10020		ANSI B1.1	C.V.	UNC	328
10025		ANSI B1.1	C.V.	UNF	329

VISIONE D'INSIEME: FILIERE
Overview: round dies 332

FILIERE
Round dies

cod.		DIN	material	fil /th	p.
12144		223	HSS-CO 5%	M	334
12146		223	HSS-CO 5%	MF	334
12148		5158	HSS-CO 5%	BSP	335
12165		223	HSS-G TiN	M	336
12060		223	HSS-G	M	337
12062		223	HSS-G	M	338
12067		-	HSS-G TiN	M	339
12066		-	HSS-G	M	339
12094		382	HSS-G	M	340
12165		223	HSS-G	MF	336
12065		223	HSS-G TiN	MF	342
12072		223	HSS-G	MF	344
12066		-	HSS-G	MF	339
12069		223	HSS-G	MF	346
12096		382	HSS-G	MF	347
12075		5158	HSS-G	BSP	348
12077		5158	HSS-G	BSP	348
12098		382	HSS-G	BSP	349
12089		352	HSS-G	BSPT	350
12087		223	HSS-G	BSF	350
12070		223	HSS-G	BSW	351
12088		223	HSS-G	BSW	351
12091		-	HSS-G	NPT	352
12080		223	HSS-G	UNC	352
12082		223	HSS-G	UNC	353
12085		223	HSS-G	UNF	353
12086		223	HSS-G	UNF	354
12079		223	HSS-G	UNEF	354
12093		40434	HSS-G	Pg	355

cod.		DIN	material	fil /th	p.
12001		223	C.V.	M	356
12005		223	C.V.	MF	357
12015		223	C.V.	BSP	358
12017		223	C.V.	BSPT	358
12012		223	C.V.	BSF	359
12010		223	C.V.	BSW	359
12032		223	C.V.	NPT	360
12020		223	C.V.	UNC	360
12025		223	C.V.	UNF	361

cod.		DIN		page
15001 15003		1814		364
15010 15011		-		365
15005 15006		-		366
15037 15032 15035 15030		225		368 369
10065		-		371
SET		-	HSS-G	373
SET		-	C.V.	152
10600 10605 10631 10606 10625		-		395 396 397 401 402
10612 10620 10613 10615 10614 10616 10617 10618		-	HSS-G	405 - 407

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ALESATORI, FRESE E UTENSILI SALDOBRASATI
Reamers, mills and brazed tools

cod.		DIN		page
29020 29021		212/2B 212/2C	HSS-CO 5%	412 413
29026		208/B	HSS-CO 5%	414
29039		311	HSS-G	414
29040		219B	HSS-G	415
29001		206B	HSS-G	416
29006 29005		859/B -	HSS-G	417
29010		9B	HSS-G	418

cod.				page
24150 24152 24151 24153			HM HM TiAlN	419
24161 24163 24162 24164 24181 24184			HM HM TiAlN	420 421
24165 24167 24166 24168 24183 24182			HM HM TiAlN	422 423
24169 24171 24170 24172 24174 24175			HM HM TiAlN	424 425
24177 24185 24178 24186 24176			HM TiAlN	426 427
24154 24155		Alu	HM	428
24180 24156		Alu	HM	429
24157 24159 24158 24160 24179			HM HM TiAlN	430 431
24001 24003 24002 24004			HSS-CO 8% HSS-CO 8% TiAlN	432
24009 24011 24010 24012			HSS-CO 8% HSS-CO 8% TiAlN	433
24013 24015 24014 24016			HSS-CO 8% HSS-CO 8% TiAlN	434
24017 24019 24018 24020			HSS-CO 8% HSS-CO 8% TiAlN	435

cod.				page
24021 24023 24022 24024			HSS-CO 8% HSS-CO 8% TiAlN	436
24005 24007 24006 24008			HSS-CO 8% HSS-CO 8% TiAlN	437
24025 24026			HSS-CO 5%	438
24029			HSS-CO 5%	439
24030			HSS-CO 5%	439
26100		Alu	HSS-G	439
28200 28202 28204 28206 28208 28210 28212	28214 28216 28218 28220 28224 28226			440 - 444
26150 26152 26154			HSS-CO 10%	445
26015 26033 26016 26027 26025	26020 26034 26028 26026		HM HM TiAlN	448 - 459
26001 26003			HSS-G	460

LAME DA TAGLIO
Cutting blades

cod.		DIN		page
27001 27002 27003		~UNI 4012	HSS-G VAPO	464
27011 27012 27013		~UNI 4012	HSS-CO 5% VAPO	464
27050 27055		-	HM	465
27060 27070		-	HM	466 467
26125			HM HSS-CO 8% HSS-CO 5%	468
25018			ASP	469
25011			BIM M42	470
25016		Dente rinforzato	BIM M42	471
25010			BIM M42	472

cod.			page
23620 23600 23610 23630		Attacco BOSCH®	475 476 477 478
23710 23720 23700		Attacco BLACK&DECKER®	479 479 480
23810 23815 23800 23820		Attacco universale SABRE®	482 483 484 485
23001			486
23010			487
23005			487
23405 23410 23415 23400		Starlock®	489 490 491 492
23505 23510 23515 23500 23529		Quick Change Universal	493 494 495

UTENSILI DA TAGLIO PER EDILIZIA
BUILDING AND CONSTRUCTION TOOLS

VISIONE D'INSIEME: PUNTE PER MURO CON CODOLO CILINDRICO
Overview: Masonry drills with Straight shank 498

PUNTE PER MURO CON CODOLO CILINDRICO
Masonry drills with Straight shank

cod.		L		page
03043		Serie corta	GRESMASTER	501
03042		Serie corta	GRES+	503
03110 03112		Serie corta L = 150 ÷ 250	Super Granit	504
03100		Serie corta	Extreme hard cut	505
03072		Serie corta	EK-MAX4	506
03069		Serie corta L = 150 ÷ 250 L = 300 ÷ 400	SDD UNIVERSALE	507
03060 03063 03065 03067		Serie corta L = 150 ÷ 200 L = 400 L = 600	SUPERIOR	508
03059		Serie corta	SUPERIOR	509
03052 03053 03054 03051		Serie corta L = 150 ÷ 200 L = 400 L = 600	STANDARD PLUS	510
03001 03005 03009 03011 03015		Serie corta L = 200 L = 300 L = 400 L = 600	STANDARD	512 513
03076		Serie corta	MULTI	514
03077		Serie corta	MULTI	515

cod.		DIN		page
03080 03082		Serie corta L = 250	Foratutto®	516
03089		Serie corta	Foratutto®	517
03140		Serie corta	VETRO E CERAMICA	517

VISIONE D'INSIEME: PUNTE PER MURO CON ATTACCO SDS
Overview: Masonry drills with SDS shank 518

PUNTE PER MURO CON ATTACCO SDS
Masonry drills with SDS shank

cod.		L		page
03169		SDS- PLUS	HAMMER	520
03167		SDS- PLUS	Speedmaster 4x4	522
03152		SDS- PLUS	SDSlite	525
03156		SDS- PLUS	EK-8	526
03160		SDS- PLUS	K4 SUPERPRO	528
03155		SDS- PLUS	STANDARD	530
03171		SDS-MAX	GRANDI DIAMETRI DA 45 A 80 mm	532
03170		SDS-MAX	SUPER PRO	533
03172		SDS-PLUS SDS-MAX	DUST FREE	534

cod.			page
21120		Conico 1:8	536
21122		Filetto con molla *With spring*	537
21110 21111		M16 M22	538
21015		MD Carbide tip	540
21105		MD Carbide grit	188
21108			189
21106		M14	542
03122		Keramaster Plus	543
03117		Keramaster	544

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cod.			page
21104		Keramaster	544
03125			546
03121			547
03405 03400 03410 03515			548
03221 03220 03222	 SDS-PLUS	QUALITÀ PREMIUM ALTA QUALITÀ QUALITÀ STANDARD	550
03210 03212	 SDS-MAX	ALTA QUALITÀ QUALITÀ STANDARD	552

UTENSILI PER TAGLIO DEL LEGNO
WOODWORKING TOOLS

cod.		L	Material	page
05054			C.V.	556
05200		Serie corta	HSS	556
05210 05212		L = 245 L = 400	C.V.	557
05001 05020 05025		Serie corta L = 245 L = 400	C.V.	558 559
05009		HEX 1/4"	C.V.	559
05035 05036 05040 05042 05044		L = 155 L =235 L = 300 L = 460 L = 600	C.V.	560
05037 05038	SDS-PLUS	L = 235 L = 460	C.V.	561
05030 05033		L = 400 L = 600	C.V.	562 563
05045 05048		L = 150÷160 L = 400	C.V.	564 565
05046			C.V.	564
05050			C.V.	565
05065			C.V.	566
05067			C.V.	566

cod.		DIN	Material	page
05063			C.V.	567
05058 05060			C.V.	568
05077			C.V.	568
05076			C.V.	569
05440			C.V.	569
05072 05070			C.V.	569
05080			C.V.	570
05400 05430			C.V.	571

ACCESSORI
ACCESSORIES

cod.			page
28031 28051 28007 28009 28053 28055 28054 28058		Mandrini autoserranti per elettroutensili	574 575
28004 28007 28009 28001 28002 28003		Mandrini a cremagliera	576 577
28035 28034 28032 28030		Mandrini per trapani a colonna	578 579
28186 03184 20010		Raccordi di adattamento per mandrini	580
28160 28165		Attacchi conici Morse per mandrini	581
28150 28154		Bussole di riduzione per coni Morse	582
28158		Estrattori per utensili con cono Morse	583
41004 28020		Pasta lubrificante Olio da taglio	583





PUNTE PER TAGLIO DEI METALLI

TWIST DRILLS FOR METAL CUTTING

VISIONE D'INSIEME: PUNTE PER METALLO CON CODOLO CILINDRICO
Overview: straight shank twist drills for metal cutting

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	AFFILATURA *SHARPENING*	ELICA *HELIX ANGLE*	IMMAGINE *IMAGE*	TITANIO E SUPERLEGHE *TITANIUM AND SUPERALLOY*	INOX *STAINLESS STEEL*	ACCIAO *STEEL* <1400 N/mm	ACCIAO *STEEL* <900 N/mm	ACCIAO *STEEL* <700 N/mm	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALUMINUM AND ALLOYS*	R≤N/mm²
HM	-	120°	27°		✓	✓	✓	✓	✓	✓	✓	1400
HM HSS	-	115°	27°		✓	✓	✓	✓	✓	✓	✓	1400
Co8% AISI M42	-	130°	27°			✓	✓	✓	✓	✓	✓	1400
Co5% AISI M35	TiAlN	130°	27°			✓	✓	✓	✓	✓	✓	1300
	TiAlN	130°	35°			✓	✓	✓	✓	✓	✓	1300
	-	130°	35°			✓	✓	✓	✓	✓	✓	1200
	-	130°	36°			✓	✓	✓	✓	✓	✓	1200
	-	130°	27°			✓	✓	✓	✓	✓	✓	1200
HSS-G AISI M2	-	130°/90°	27°	Speedmaster		✓	✓	✓	✓	✓	✓	900
	-	Step Geometry	27°	STEP+		✓	✓	✓	✓	✓	✓	900
	TiN	118°	27°			✓	✓	✓	✓	✓	✓	900
	TiN	130°	27°			✓	✓	✓	✓	✓	✓	900
	-	130°	27°	Dual Performer®		✓		✓	✓	✓	✓	850
	-	130°	27°					✓	✓	✓	✓	800
	-	130°	27°					✓	✓	✓	✓	800
	-	118°	27°					✓	✓	✓	✓	800
HSS-G	-	130°	27°						✓	✓	✓	700
	-	130°	27°						✓	✓	✓	650
HSS-R	-	118°	27°						✓	✓	✓	650
SPECIAL	-	118°	20°	Perfect for **BRASS**						✓		650
	-	135°	35°	Perfect for **ALUMINIUM**							✓	650

	SERIE CORTA *SHORT SERIE* DIN 338	CODOLO RIDOTTO 10mm *REDUCED SHANK* DIN 338	CODOLO RIDOTTO 13mm *REDUCED SHANK* DIN 338	SERIE EXTRA CORTA *EXTRA SHORT SERIE* DIN 1897	SERIE SUPER CORTA *SUPER SHORT SERIES*	ELICA CONTRAPPOSTA *DOUBLE ENDED* DIN 1897	SERIE LUNGA *LONG SERIE* DIN 340	SERIE EXTRA LUNGA *EXTRA LONG SERIE* DIN 1869	SERIE SUPER LUNGA *SUPER LONG SERIE*	ATTACCO ESAGONALE 1/4" *ATTACCO ESAGONALE* DIN 338	SERIE IN POLLICI *INCH SERIE* ANSI B94	SERIE IN POLLICI CODOLO RIDOTTO 1/2" *INCH SERIE REDUCED SHANK* ANSI B94
COD.	01089			01119								
	p.30			p.31								
COD.	01093											
	p.32											
COD.	01120	01122	01123	01126			01128					
	p.34	p.36	p.36	p.37			p.37					
COD.	01300											
	p.38											
COD.	01305			01307			01306					
	p.39			p.40			p.41					
COD.	01140			01143			01141	01376 - 01377 01378				
	p.42			p.43			p.44	p.45-46				
COD.	01139											
	p.47											
COD.	01145	01147	01146	01149	01051	01148	01152				01157	
	p.48	p.50	p.51	p.52	p.52	p.53	p.54				p.55	
COD.	01220											
	p.57											
COD.	01401											
	p.59											
COD.	01320											
	p.61											
COD.	01160	01163	01164	01166			01168				01162	
	p.62	p.64	p.64	p.65			p.66				p.67	
COD.	01201	01203	01209	01207			01208					
	p.68	p.70	p.70	p.71			p.71					
COD.	01060 01090 sx	01062	01063	01094 01067 sx		01095	01096	01098 - 01099 01100	01129 01105 - 01114			
	p.72-76	p.74	p.75	p.77 - 78		p.79	p.80	p.81 - 82	p.83 - 85			
COD.	01070	01072	01074	01076	01050	01077	01078			01079 - 10211	01115	
	p.86	p.88	p.89	p.90	p.91	p.92	p.93			p.94	p.95	
COD.	01066			01022								
	p.96			p.98								
COD.	01350	01352	01354	01356			01358					
	p.100	p.102	p.103	p.104			p.105					
COD.	01080	01082	01084	01087			01086					
	p.106	p.108	p.108	p.109			p.109					
COD.	01001	01003	01004	01018			01020				01030	01034
	p.110	p.112	p.113	p.114			p.115				p.116	p.117
COD.	01091											
	p.118											
COD.	01092											
	p.119											

PUNTE ELICOIDALI CILINDRICHE IN METALLO DURO INTEGRALE PER CENTRI DI LAVORO CNC
Tungsten carbide drill bits for CNC

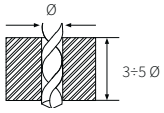
01089 | VHM | ≃ **DIN 338** **METALLO DURO** Carbide

Serie corta *Short serie*



W 27°


≤ 5 d





Confezione *Packaging*



R ≤ 1400 N/mm²

Applicazioni *Applications*


Acciaio *Steel*


Metalli *Metals*


Plastica *Plastic*


Emulsione *Lubrificant*

Taglio di ghisa, acciai duri al manganese, bronzi e metalli abrasivi, plastiche rinforzate con fibre.

Suitable for cutting into cast iron.

Ø h7	l	L	pcs.	cod.	€ cad/each
1	12	34	1	010890100	**8,477**
1,1	14	36	1	010890110	**9,824**
1,2	16	38	1	010890120	**10,251**
1,3	16	38	1	010890130	**9,968**
1,4	18	40	1	010890140	**9,901**
1,5	18	40	1	010890150	**9,397**
1,6	20	43	1	010890160	**9,540**
1,7	20	43	1	010890170	**10,393**
1,8	22	46	1	010890180	**10,471**
1,9	22	46	1	010890190	**10,612**
2	24	49	1	010890200	**14,096**
2,1	24	49	1	010890210	**15,168**
2,2	27	53	1	010890220	**16,232**
2,3	27	53	1	010890230	**16,023**
2,4	30	57	1	010890240	**17,874**
2,5	30	57	1	010890250	**18,302**
2,6	30	57	1	010890260	**19,014**
2,7	33	61	1	010890270	**21,500**
2,8	33	61	1	010890280	**20,930**
2,9	33	61	1	010890290	**20,930**
3	33	61	1	010890300	**20,787**
3,1	36	65	1	010890310	**23,634**
3,2	36	65	1	010890320	**22,857**
3,3	36	65	1	010890330	**22,857**
3,4	39	70	1	010890340	**25,278**
3,5	39	70	1	010890350	**25,059**
3,6	39	70	1	010890360	**26,909**
3,7	39	70	1	010890370	**27,129**
3,8	43	75	1	010890380	**29,122**
3,9	43	75	1	010890390	**29,613**
4	43	75	1	010890400	**30,120**
4,1	43	75	1	010890410	**30,547**
4,2	43	75	1	010890420	**30,469**
4,3	47	80	1	010890430	**34,313**
4,4	47	80	1	010890440	**34,390**
4,5	47	80	1	010890450	**35,452**
4,6	47	80	1	010890460	**35,670**
4,7	47	80	1	010890470	**36,591**
4,8	52	86	1	010890480	**41,716**
4,9	52	86	1	010890490	**42,790**
5	52	86	1	010890500	**41,433**
5,1	52	86	1	010890510	**47,500**
5,2	52	86	1	010890520	**45,351**
5,3	52	86	1	010890530	**45,781**
5,4	57	93	1	010890540	**51,114**
5,5	57	93	1	010890550	**49,765**
5,6	57	93	1	010890560	**51,541**
5,7	57	93	1	010890570	**54,956**
5,8	57	93	1	010890580	**53,249**

Ø h7	l	L	pcs.	cod.	€ cad/each
5,9	57	93	1	010890590	**54,606**
6	57	93	1	010890600	**52,396**
6,1	63	101	1	010890610	**63,150**
6,2	63	101	1	010890620	**62,865**
6,3	63	101	1	010890630	**63,499**
6,4	63	101	1	010890640	**67,913**
6,5	63	101	1	010890650	**66,348**
6,6	63	101	1	010890660	**67,772**
6,7	63	101	1	010890670	**68,845**
6,8	69	109	1	010890680	**76,249**
6,9	69	109	1	010890690	**87,774**
7	69	109	1	010890700	**76,391**
7,1	69	109	1	010890710	**78,733**
7,2	69	109	1	010890720	**87,563**
7,3	69	109	1	010890730	**88,779**
7,4	69	109	1	010890740	**86,784**
7,5	69	109	1	010890750	**85,569**
7,6	75	117	1	010890760	**98,602**
7,7	75	117	1	010890770	**99,313**
7,8	75	117	1	010890780	**96,390**
7,9	75	117	1	010890790	**97,670**
8	75	117	1	010890800	**94,757**
8,1	75	117	1	010890810	**110,912**
8,2	75	117	1	010890820	**109,850**
8,3	75	117	1	010890830	**110,705**
8,4	75	117	1	010890840	**110,845**
8,5	75	117	1	010890850	**107,430**
8,6	81	125	1	010890860	**140,674**
8,7	81	125	1	010890870	**129,071**
8,8	81	125	1	010890880	**128,216**
8,9	81	125	1	010890890	**130,986**
9	81	125	1	010890900	**124,942**
9,1	81	125	1	010890910	**132,269**
9,2	81	125	1	010890920	**143,374**
9,3	81	125	1	010890930	**142,169**
9,4	81	125	1	010890940	**144,086**
9,5	81	125	1	010890950	**139,180**
9,6	87	133	1	010890960	**155,477**
9,7	87	133	1	010890970	**154,622**
9,8	87	133	1	010890980	**150,777**
9,9	87	133	1	010890990	**154,051**
10	87	133	1	010891000	**147,646**
10,2	87	133	1	010891020	**174,413**
10,5	87	133	1	010891050	**172,703**
10,8	94	142	1	010891080	**205,598**
11	94	142	1	010891100	**200,544**
11,5	94	142	1	010891150	**220,258**
12	101	151	1	010891200	**248,241**

Caratteristiche del metallo duro
Features of hard metal

Il metallo duro è un prodotto sinterizzato costituito principalmente da WC e Co in proporzioni variabili. Da questa proporzione dipendono le caratteristiche specifiche dell'utensile: la qualità a grana fine K20 che usiamo per i nostri prodotti è composta dal 94% di WC e dal restante 6% di Co e presenta una resistenza a rottura di 2200 MPa e una durezza di 91.9 HVA. Tale prodotto è caratterizzato da un'ottima resistenza a usura e da una discreta resistenza a flessione anche se, naturalmente, si consiglia di evitare qualsiasi urto o eccessivo sforzo flettente. Vista l'elevata durezza, l'utensile è infatti discretamente fragile e sensibile a condizioni di lavoro non omogenee. Si consideri poi che il metallo duro è mediamente rigido il doppio rispetto all'acciaio superrapido: pertanto, con punte in metallo duro, si producono di norma fori molto più cilindrici.

The hard metal is produced by sintering of WC and Co powders. The main features of the product depend on the content of these 2 components: we chose K20 fine grain type, which means 94% WC and 6% Co, with 2200 MPa resistance and 91.9 HVA hardness. This product has an excellent wear resistance and a good bending resistance. By the way, it's recommended to avoid any accidental crash, because the product is very hard and thus fragile. The hard metal stiffness is quite double comparing to the high speed steel one: you can drill "very cylindrical" holes with an hard metal tool.

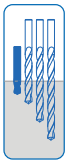
PUNTE ELICOIDALI CILINDRICHE IN METALLO DURO INTEGRALE PER CENTRI DI LAVORO CNC
Tungsten carbide drill bits for CNC

01119 | **VHM** | **DIN 1897/6539 METALLO DURO**
Carbide

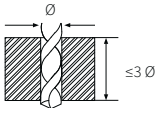
Serie extra corta
Extra short serie



W 27°



≤ 3 d





Confezione
Packaging



R ≤ 1400 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Emulsione
Lubrificant

Taglio di ghisa, acciai duri al manganese, bronzi e metalli abrasivi, plastiche rinforzate con fibre.

Suitable for cutting into cast iron.

Ø h7	l	L	pcs.	cod.	€ cad/each
0,5	6	26	1	011190050	**12,153**
0,6	6	26	1	011190060	**11,221**
0,7	6	26	1	011190070	**10,313**
0,8	6	26	1	011190080	**9,276**
0,9	6	26	1	011190090	**8,888**
1	6	26	1	011190100	**6,164**
1,1	7	28	1	011190110	**7,391**
1,2	8	30	1	011190120	**7,201**
1,3	8	30	1	011190130	**7,072**
1,4	9	32	1	011190140	**7,003**
1,5	9	32	1	011190150	**7,709**
1,6	10	34	1	011190160	**7,475**
1,7	10	34	1	011190170	**7,003**
1,8	11	36	1	011190180	**7,261**
1,9	11	36	1	011190190	**7,261**
2	12	38	1	011190200	**10,762**
2,1	12	38	1	011190210	**11,541**
2,2	13	40	1	011190220	**12,318**
2,3	13	40	1	011190230	**12,258**
2,4	14	43	1	011190240	**13,226**
2,5	14	43	1	011190250	**13,556**
2,6	14	43	1	011190260	**14,003**
2,7	16	46	1	011190270	**15,819**
2,8	16	46	1	011190280	**15,241**
2,9	16	46	1	011190290	**15,370**
3	16	46	1	011190300	**15,241**
3,1	18	49	1	011190310	**17,316**
3,2	18	49	1	011190320	**16,927**
3,3	18	49	1	011190330	**17,185**
3,4	20	52	1	011190340	**18,153**
3,5	20	52	1	011190350	**17,894**
3,6	20	52	1	011190360	**19,579**
3,7	20	52	1	011190370	**19,450**
3,8	22	55	1	011190380	**20,877**
3,9	22	55	1	011190390	**21,006**
4	22	55	1	011190400	**21,336**
4,1	22	55	1	011190410	**21,913**
4,2	22	55	1	011190420	**21,524**
4,3	24	58	1	011190430	**23,280**
4,4	24	58	1	011190440	**23,280**
4,5	24	58	1	011190450	**23,928**
4,6	24	58	1	011190460	**24,706**
4,7	24	58	1	011190470	**24,767**
4,8	26	62	1	011190480	**28,395**
4,9	26	62	1	011190490	**28,984**
5	26	62	1	011190500	**27,878**
5,1	26	62	1	011190510	**31,853**
5,2	26	62	1	011190520	**30,542**
5,3	26	62	1	011190530	**30,929**
5,4	28	66	1	011190540	**34,491**
5,5	28	66	1	011190550	**33,134**
5,6	28	66	1	011190560	**34,171**
5,7	28	66	1	011190570	**35,468**
5,8	28	66	1	011190580	**35,468**
5,9	28	66	1	011190590	**35,729**

Ø h7	l	L	pcs.	cod.	€ cad/each
6	28	66	1	011190600	**34,622**
6,1	31	70	1	011190610	**41,303**
6,2	31	70	1	011190620	**41,752**
6,3	31	70	1	011190630	**41,951**
6,4	31	70	1	011190640	**44,285**
6,5	31	70	1	011190650	**43,438**
6,6	31	70	1	011190660	**44,604**
6,7	31	70	1	011190670	**45,453**
6,8	34	74	1	011190680	**49,403**
6,9	34	74	1	011190690	**56,307**
7	34	74	1	011190700	**48,955**
7,1	34	74	1	011190710	**51,417**
7,2	34	74	1	011190720	**56,923**
7,3	34	74	1	011190730	**57,641**
7,4	34	74	1	011190740	**56,794**
7,5	34	74	1	011190750	**55,696**
7,6	36	79	1	011190760	**60,944**
7,7	36	79	1	011190770	**61,202**
7,8	36	79	1	011190780	**60,164**
7,9	36	79	1	011190790	**61,272**
8	36	79	1	011190800	**58,610**
8,1	36	79	1	011190810	**61,011**
8,2	36	79	1	011190820	**63,866**
8,3	36	79	1	011190830	**64,963**
8,4	36	79	1	011190840	**65,222**
8,5	36	79	1	011190850	**62,888**
8,6	40	84	1	011190860	**83,062**
8,7	40	84	1	011190870	**78,707**
8,8	40	84	1	011190880	**77,869**
8,9	40	84	1	011190890	**79,036**
9	40	84	1	011190900	**75,924**
9,1	40	84	1	011190910	**78,707**
9,2	40	84	1	011190920	**87,264**
9,3	40	84	1	011190930	**87,395**
9,4	40	84	1	011190940	**88,761**
9,5	40	84	1	011190950	**85,579**
9,6	43	89	1	011190960	**93,748**
9,7	43	89	1	011190970	**94,077**
9,8	43	89	1	011190980	**92,711**
9,9	43	89	1	011190990	**95,173**
10	43	89	1	011191000	**90,188**
10,2	43	89	1	011191020	**103,155**
10,5	43	89	1	011191050	**103,283**
10,8	47	95	1	011191080	**107,492**
11	47	95	1	011191100	**117,676**
11,5	47	95	1	011191150	**140,816**
12	51	102	1	011191200	**155,988**
12,5	51	102	1	011191250	**159,558**
13	51	102	1	011191300	**175,119**
13,5	54	107	1	011191350	**257,551**
14	54	107	1	011191400	**201,181**
14,5	56	111	1	011191450	**296,922**
15	56	111	1	011191500	**217,260**
15,5	58	115	1	011191550	**400,183**
16	58	115	1	011191600	**269,903**

PUNTE ELICOIDALI CON PLACCHETTA IN METALLO DURO K20 PER IL TAGLIO DEI METALLI

Carbide tipped twist drills for metal cutting

01093 | **HM HSS**

DIN 338 RETTIFICATA

Ground from the solid

Serie corta

Short serie

115° **W 27°**

HM/K20
HSS

<5 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
2	24	49	1	010930200	**30,598**
2,5	30	57	1	010930250	**30,598**
3	33	61	1	010930300	**30,598**
3,5	39	70	1	010930350	**30,598**
4	43	75	1	010930400	**17,000**
4,5	47	80	1	010930450	**17,721**
5	52	86	1	010930500	**18,785**
5,5	57	93	1	010930550	**19,495**
6	57	93	1	010930600	**20,204**
6,5	63	101	1	010930650	**22,320**
7	69	109	1	010930700	**22,674**
7,5	69	109	1	010930750	**24,083**
8	75	117	1	010930800	**26,221**
8,5	75	117	1	010930850	**30,111**
9	81	125	1	010930900	**30,111**
9,5	81	125	1	010930950	**32,238**
10	87	133	1	010931000	**34,710**
10,5	87	133	1	010931050	**37,558**
11	94	142	1	010931100	**40,396**
11,5	94	142	1	010931150	**43,920**
12	101	151	1	010931200	**47,457**
12,5	101	151	1	010931250	**51,001**
13	101	151	1	010931300	**55,247**

R ≤ 1400 N/mm²

Applicazioni
Applications

Inox
Stainless

Acciaio
Steel

Olio
Oil

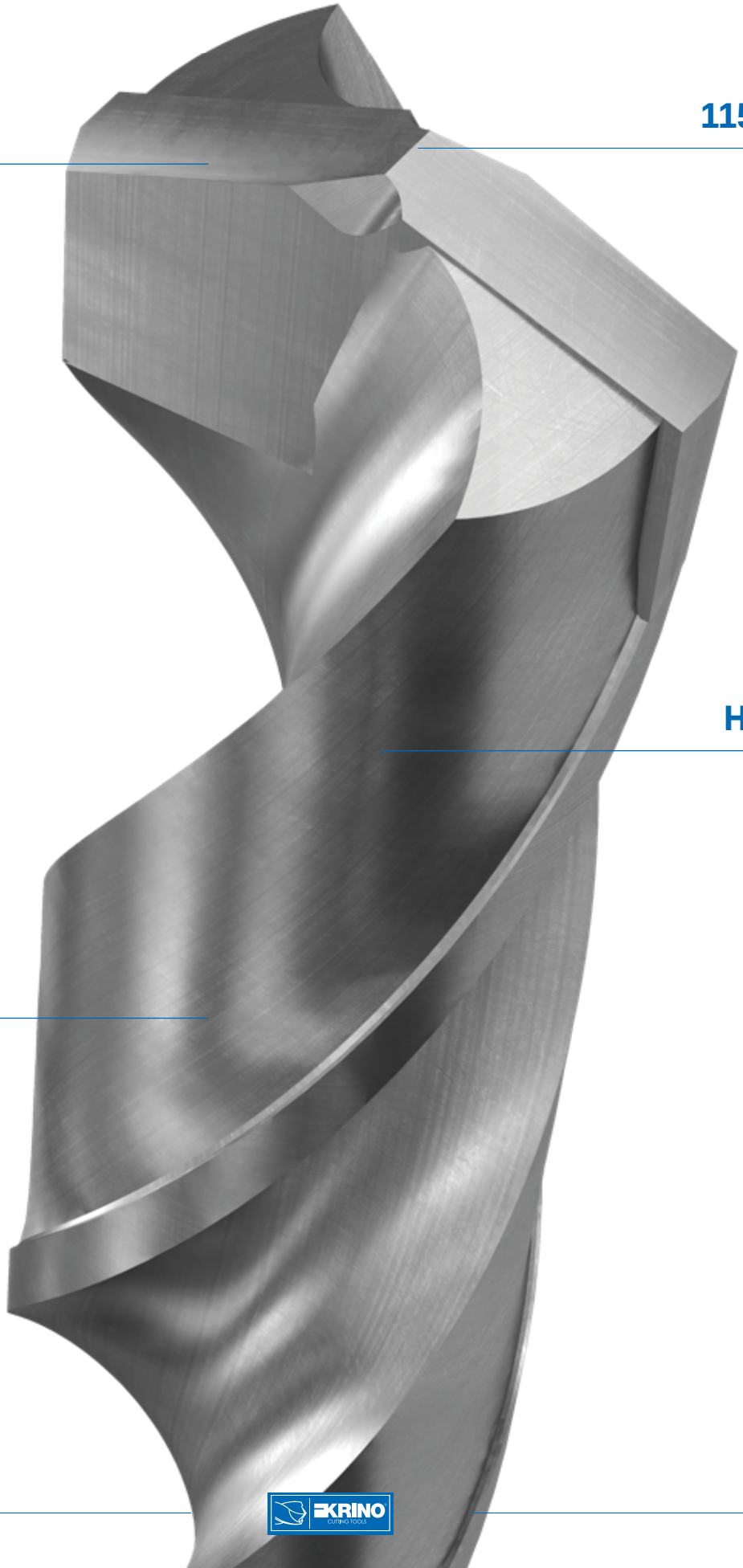
Acciaio al manganese
Manganese steel

Taglio degli acciai duri trattati ed abrasivi con R da 750 N/mm² a 1400 N/mm², acciai per molle, acciai al manganese, molibdeno puro, ghisa in conchiglia con HB>300, bronzo duro.

For drilling in: Hardened steel, tough cast iron, manganese steel, bronze, abrasive tough steel.

HM/K20

115°



HSS

W 27°

PUNTE ELICOIDALI AL COBALTO 8%, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA
Cobalt twist drills ground from the solid

01120 | **HSS-CO 8%** | **DIN 338 RETTIFICATA**
Ground from the solid

Serie corta
Short serie

130° W 27°

HV ≈ 850÷920
AISI M42
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)

<5 d



Confezione
Packaging



R ≤ 1400 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

Art. 01121 Self
Disponibile su richiesta
On demand

L'alta percentuale di Cobalto (e Molibdeno) rende questa punta particolarmente resistente alle sollecitazioni meccaniche e termiche e, pertanto, è adatta alle lavorazioni dell'acciaio inox e degli acciai resistenti al calore, di tutti gli acciai alto legati e delle leghe molto tenaci (Acciai al Ni Cr, hastelloy, nimonic, inconel).

High performances in cutting stainless steel, alloy steel up to R ≤ 1400 N/mm².

Ø h8	l	L	pcs.	cod.	€ cad/each
0,3	3	19	10	011200030	6,776
0,35	4	19	10	011200035	6,776
0,4	5	20	10	011200040	6,776
0,45	5	20	10	011200045	6,776
0,5	6	22	10	011200050	5,202
0,55	7	24	10	011200055	5,202
0,6	7	24	10	011200060	5,202
0,65	8	26	10	011200065	5,202
0,7	9	28	10	011200070	5,202
0,75	9	28	10	011200075	5,202
0,8	10	30	10	011200080	5,202
0,85	10	30	10	011200085	5,202
0,9	11	32	10	011200090	5,202
0,95	11	32	10	011200095	5,202
1	12	34	10	011200100	2,546
1,1	14	36	10	011200110	2,807
1,2	16	38	10	011200120	2,807
1,25	16	38	10	011200125	2,807
1,3	16	38	10	011200130	2,807
1,4	18	40	10	011200140	2,807
1,5	18	40	10	011200150	2,546
1,6	20	43	10	011200160	2,807
1,7	20	43	10	011200170	2,807
1,75	22	46	10	011200175	2,807
1,8	22	46	10	011200180	2,807
1,9	22	46	10	011200190	2,807
2	24	49	10	011200200	2,546
2,1	24	49	10	011200210	2,958
2,2	27	53	10	011200220	2,958
2,25	27	53	10	011200225	2,958
2,3	27	53	10	011200230	2,958
2,4	30	57	10	011200240	2,958
2,5	30	57	10	011200250	2,698
2,6	30	57	10	011200260	2,958
2,7	33	61	10	011200270	2,958
2,75	33	61	10	011200275	2,958
2,8	33	61	10	011200280	2,958
2,9	33	61	10	011200290	2,958
3	33	61	10	011200300	2,698
3,1	36	65	10	011200310	3,764
3,2	36	65	10	011200320	3,764
3,25	36	65	10	011200325	3,764
3,3	36	65	10	011200330	3,764
3,4	39	70	10	011200340	3,764
3,5	39	70	10	011200350	3,425
3,6	39	70	10	011200360	4,135
3,7	39	70	10	011200370	4,135
3,75	39	70	10	011200375	4,135
3,8	43	75	10	011200380	4,135
3,9	43	75	10	011200390	4,135
4	43	75	10	011200400	3,764
4,1	43	75	10	011200410	4,736
4,2	43	75	10	011200420	4,736
4,25	43	75	10	011200425	4,736
4,3	47	80	10	011200430	4,736
4,4	47	80	10	011200440	4,736
4,5	47	80	10	011200450	4,312
4,6	47	80	10	011200460	5,038
4,7	47	80	10	011200470	5,038
4,75	47	80	10	011200475	5,038
4,8	52	86	10	011200480	5,038
4,9	52	86	10	011200490	5,038
5	52	86	10	011200500	4,572

Serie corta
Short serie

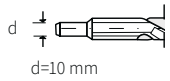
Ø h8	l	L	pcs.	cod.	€ cad/each
5,1	52	86	10	011200510	6,817
5,2	52	86	10	011200520	6,817
5,25	52	86	10	011200525	6,817
5,3	52	86	10	011200530	6,817
5,4	57	93	10	011200540	6,817
5,5	57	93	10	011200550	6,188
5,6	57	93	10	011200560	7,106
5,7	57	93	10	011200570	7,106
5,75	57	93	10	011200575	7,106
5,8	57	93	10	011200580	7,106
5,9	57	93	10	011200590	7,106
6	57	93	10	011200600	6,461
6,1	63	101	10	011200610	9,007
6,2	63	101	10	011200620	9,007
6,25	63	101	10	011200625	9,007
6,3	63	101	10	011200630	9,007
6,4	63	101	10	011200640	9,007
6,5	63	101	10	011200650	8,558
6,6	63	101	10	011200660	10,568
6,7	63	101	10	011200670	10,568
6,75	69	109	10	011200675	10,568
6,8	69	109	10	011200680	10,568
6,9	69	109	10	011200690	10,568
7	69	109	10	011200700	9,857
7,1	69	109	5	011200710	12,869
7,2	69	109	5	011200720	12,869
7,25	69	109	5	011200725	12,869
7,3	69	109	5	011200730	12,869
7,4	69	109	5	011200740	12,869
7,5	69	109	5	011200750	10,951
7,6	75	117	5	011200760	13,963
7,7	75	117	5	011200770	13,963
7,75	75	117	5	011200775	13,963
7,8	75	117	5	011200780	13,963
7,9	75	117	5	011200790	13,963
8	75	117	5	011200800	12,732
8,1	75	117	5	011200810	15,334
8,2	75	117	5	011200820	15,334
8,25	75	117	5	011200825	15,334
8,3	75	117	5	011200830	15,334
8,4	75	117	5	011200840	15,334
8,5	75	117	5	011200850	14,102
8,6	81	125	5	011200860	17,935
8,7	81	125	5	011200870	17,935
8,75	81	125	5	011200875	17,935
8,8	81	125	5	011200880	17,935
8,9	81	125	5	011200890	17,935
9	81	125	5	011200900	16,975
9,1	81	125	5	011200910	20,877
9,2	81	125	5	011200920	20,877
9,25	81	125	5	011200925	20,877
9,3	81	125	5	011200930	20,877
9,4	81	125	5	011200940	20,877
9,5	81	125	5	011200950	18,070
9,6	87	133	5	011200960	21,834
9,7	87	133	5	011200970	21,834
9,75	87	133	5	011200975	21,834
9,8	87	133	5	011200980	21,834
9,9	87	133	5	011200990	21,834
10	87	133	5	011201000	21,000
10,1	87	133	5	011201010	25,573
10,2	87	133	5	011201020	25,573
10,25	87	133	5	011201025	25,573
10,3	87	133	5	011201030	25,573
10,4	87	133	5	011201040	25,573
10,5	87	133	5	011201050	24,506
10,6	87	133	5	011201060	29,611
10,7	94	142	5	011201070	29,611
10,75	94	142	5	011201075	29,611
10,8	94	142	5	011201080	29,611
10,9	94	142	5	011201090	29,611
11	94	142	5	011201100	28,271
11,1	94	142	5	011201110	32,173
11,2	94	142	5	011201120	32,173
11,25	94	142	5	011201125	32,173
11,3	94	142	5	011201130	32,173
11,4	94	142	5	011201140	32,173
11,5	94	142	5	011201150	29,982
11,6	94	142	5	011201160	33,609
11,7	94	142	5	011201170	33,609
11,75	94	142	5	011201175	33,609
11,8	94	142	5	011201180	33,609
11,9	101	151	5	011201190	33,609
12	101	151	5	011201200	32,650
12,1	101	151	5	011201210	37,374
12,2	101	151	5	011201220	37,374
12,25	101	151	5	011201225	37,374
12,3	101	151	5	011201230	37,374
12,4	101	151	5	011201240	37,374
12,5	101	151	5	011201250	35,320
12,6	101	151	5	011201260	39,782
12,7	101	151	5	011201270	39,782
12,75	101	151	5	011201275	39,782
12,8	101	151	5	011201280	39,782
12,9	101	151	5	011201290	39,782
13	101	151	5	011201300	38,059
13,25	108	160	3	011201325	57,568
13,5	108	160	3	011201350	57,568
13,75	108	160	3	011201375	57,568
14	108	160	3	011201400	57,568
14,25	114	169	3	011201425	78,773
14,5	114	169	3	011201450	78,773
14,75	114	169	3	011201475	78,773
15	114	169	3	011201500	78,773
15,25	120	178	3	011201525	84,371
15,5	120	178	3	011201550	84,371
15,75	120	178	3	011201575	84,371
16	120	178	3	011201600	84,371
16,5	125	184	1	011201650	102,677
17	125	184	1	011201700	102,677
17,5	130	191	1	011201750	116,367
18	130	191	1	011201800	116,367
18,5	135	198	1	011201850	130,057
19	135	198	1	011201900	130,057
19,5	140	205	1	011201950	147,853
20	140	205	1	011202000	147,853

PUNTE ELICOIDALI AL COBALTO 8%, SERIE CORTA, CODOLO RIDOTTO
Cobalt straight shank twist drills, stub serie

01122 — HSS-CO 8% — DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 10mm
Reduced shank - 10 mm





d=10 mm

R ≤ 1400 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*



Confezione
Packaging



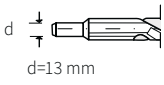
Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	011221025	28,489
10,5	87	133	10	5	011221050	28,489
10,75	94	142	10	5	011221075	32,665
11	94	142	10	5	011221100	32,665
11,25	94	142	10	5	011221125	36,211
11,5	94	142	10	5	011221150	36,211
11,75	94	142	10	5	011221175	39,647
12	101	151	10	5	011221200	39,647
12,25	101	151	10	5	011221225	43,068
12,5	101	151	10	5	011221250	43,068
12,75	101	151	10	5	011221275	46,328
13	101	151	10	5	011221300	46,328
13,25	108	160	10	3	011221325	63,700
13,5	108	160	10	3	011221350	63,700
13,75	108	160	10	3	011221375	63,700
14	108	160	10	3	011221400	63,700
14,25	114	169	10	3	011221425	76,281
14,5	114	169	10	3	011221450	76,281
14,75	114	169	10	3	011221475	76,281
15	114	169	10	3	011221500	76,281
15,25	120	178	10	3	011221525	90,807
15,5	120	178	10	3	011221550	90,807
15,75	120	178	10	3	011221575	90,807
16	120	178	10	3	011221600	90,807
16,5	125	184	10	1	011221650	105,153
17	125	184	10	1	011221700	105,153
17,5	130	191	10	1	011221750	121,432
18	130	191	10	1	011221800	141,213
18,5	135	198	10	1	011221850	141,213
19	135	198	10	1	011221900	141,213
19,5	140	205	10	1	011221950	158,723
20	140	205	10	1	011222000	158,723

Art. 01124 Self
Disponibile su richiesta
On demand

01123 — HSS-CO 8% — DIN 338 RETTIFICATA
Ground from the solid

Codolo ridotto - 13 mm
Reduced shank - 13 mm





d=13 mm

R ≤ 1400 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*



Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	011231325	63,700
13,5	108	160	13	3	011231350	63,700
13,75	108	160	13	3	011231375	63,700
14	108	160	13	3	011231400	63,700
14,25	114	169	13	3	011231425	76,281
14,5	114	169	13	3	011231450	76,281
14,75	114	169	13	3	011231475	76,281
15	114	169	13	3	011231500	76,281
15,25	120	178	13	3	011231525	90,807
15,5	120	178	13	3	011231550	90,807
15,75	120	178	13	3	011231575	90,807
16	120	178	13	3	011231600	90,807
16,5	125	184	13	1	011231650	105,153
17	125	184	13	1	011231700	105,153
17,5	130	191	13	1	011231750	121,432
18	130	191	13	1	011231800	121,432
18,5	135	198	13	1	011231850	139,064
19	135	198	13	1	011231900	139,064
19,5	140	205	13	1	011231950	158,723
20	140	205	13	1	011232000	158,723

PUNTE ELICOIDALI AL COBALTO 8%, SERIE EXTRA CORTA, SERIE LUNGA
Cobalt straight shank twist drills, stub serie

01126 HSS-CO 8% DIN 1897

Serie extra corta
Stub serie

130° W 27°

HV = 850÷920
AISI M42
SPLIT POINT
DIN 1412 C

<3 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	46	10	011260300	2,835
3,25	18	49	10	011260325	3,601
3,5	20	52	10	011260350	3,601
3,75	20	52	10	011260375	3,956
4	22	55	10	011260400	3,956
4,25	22	55	10	011260425	4,533
4,5	24	58	10	011260450	4,533
4,75	24	58	10	011260475	4,805
5	26	62	10	011260500	4,805
5,5	28	66	10	011260550	6,502
6	28	66	10	011260600	6,776



Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

01128 HSS-CO 8% DIN 340

Serie lunga
Long serie

130° W 27°

HV = 850÷920
AISI M42
SPLIT POINT
DIN 1412 C

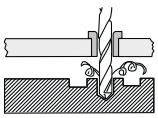
<8 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	66	100	10	011280300	5,887
3,25	69	106	10	011280325	6,625
3,5	73	112	10	011280350	6,625
3,75	73	112	10	011280375	7,980
4	78	119	10	011280400	7,980
4,25	78	119	10	011280425	9,514
4,5	82	126	10	011280450	9,514
4,75	82	126	10	011280475	10,432
5	87	132	10	011280500	9,939
5,25	87	132	10	011280525	12,183
5,5	91	139	10	011280550	11,610
5,75	91	139	10	011280575	15,211
6	91	139	10	011280600	14,497
6,5	97	148	5	011280650	16,975
7	102	156	5	011280700	19,644
7,5	102	156	5	011280750	24,985
8	109	165	5	011280800	27,928
8,5	109	165	5	011280850	32,077
9	115	175	5	011280900	36,552
9,5	115	175	5	011280950	42,097
10	121	184	5	011281000	49,587



Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

PUNTE ELICOIDALI CILINDRICHE AL COBALTO RIVESTITE AL TiAlN

HSS-CO TiAlN coated twist drills

01300 | **HSS-CO 5%** | **TiAlN** | **DIN 338**

Serie corta
Short serie

130° W 27°

HV 0,05 = 3300
Riv. TiAlN

<5 d

R ≥ 1300 N/mm²



Confezione
Packaging



Applicazioni
Applications

Inox
Stainless

Metalli
Metals

Acciaio
Steel

Taglio a secco, ad altissima velocità di rotazione ed avanzamento su tutti gli acciai durissimi (acciai alto legati in genere, acciai inox) e materiali fortemente abrasivi (ghisa, leghe Al-Si).

H.S.C. in high alloy steel, stainless steel, abrasive metals as cast iron, Al-Si Alloys.

Ø h8	l	L	pcs.	cod.	€ cad/each
1	12	34	1	013000100	7,834
1,25	16	38	1	013000125	8,046
1,5	18	40	1	013000150	8,046
1,75	22	46	1	013000175	7,892
2	24	49	1	013000200	7,892
2,25	27	53	1	013000225	7,892
2,5	30	57	1	013000250	7,892
2,75	33	61	1	013000275	7,892
3	33	61	1	013000300	7,892
3,2	36	65	1	013000320	8,521
3,25	36	65	1	013000325	8,521
3,5	39	70	1	013000350	8,521
3,75	39	70	1	013000375	8,678
4	43	75	1	013000400	8,678
4,2	43	75	1	013000420	10,550
4,25	43	75	1	013000425	10,550
4,5	47	80	1	013000450	10,550
4,75	47	80	1	013000475	10,550
4,8	52	86	1	013000480	10,550
5	52	86	1	013000500	10,550
5,2	52	86	1	013000520	11,747
5,25	52	86	1	013000525	11,747
5,5	57	93	1	013000550	11,747
5,75	57	93	1	013000575	11,747
6	57	93	1	013000600	11,747
6,25	63	101	1	013000625	17,124
6,5	63	101	1	013000650	17,124
6,75	69	109	1	013000675	18,097
7	69	109	1	013000700	18,097
7,25	69	109	1	013000725	18,097
7,5	69	109	1	013000750	18,097
7,75	75	117	1	013000775	19,338
8	75	117	1	013000800	19,338
8,25	75	117	1	013000825	21,068
8,5	75	117	1	013000850	21,068
8,75	81	125	1	013000875	22,720
9	81	125	1	013000900	22,720
9,25	81	125	1	013000925	23,406
9,5	81	125	1	013000950	23,406
9,75	87	133	1	013000975	26,254
10	87	133	1	013001000	26,254
10,25	87	133	1	013001025	32,370
10,5	87	133	1	013001050	32,370
10,75	94	142	1	013001075	34,621
11	94	142	1	013001100	34,621
11,25	94	142	1	013001125	35,364
11,5	94	142	1	013001150	35,364
11,75	94	142	1	013001175	37,048
12	101	151	1	013001200	37,048
12,25	101	151	1	013001225	39,731
12,5	101	151	1	013001250	39,731
12,75	101	151	1	013001275	42,137
13	101	151	1	013001300	42,137

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting, short serie

01305 | **HSS-CO 5%** | **TiAlN** | **DIN 338 RETTIFICATA** *Ground from the solid* | **Serie corta** *Short serie*



W 35°

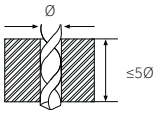


HSS-CO
Parabolic
DIN 1412/C
HV = 800÷860

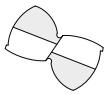
AFFILATURA
A CROCE
Cross sharpening



≤5 d







Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2	24	49	1	013050200	10,340
2,25	27	53	1	013050225	10,340
2,5	30	57	1	013050250	10,340
2,75	33	61	1	013050275	10,537
3	33	61	1	013050300	10,537
3,2	36	65	1	013050320	10,876
3,25	36	65	1	013050325	10,876
3,5	39	70	1	013050350	10,876
3,75	39	70	1	013050375	11,213
4	43	75	1	013050400	11,213
4,2	43	75	1	013050420	13,298
4,25	43	75	1	013050425	13,298
4,5	47	80	1	013050450	13,298
4,75	47	80	1	013050475	13,696
4,8	52	86	1	013050480	13,696
5	52	86	1	013050500	13,696
5,2	52	86	1	013050520	14,581
5,25	52	86	1	013050525	14,581
5,5	57	93	1	013050550	14,581
5,75	57	93	1	013050575	15,172
6	57	93	1	013050600	15,172
6,25	63	101	1	013050625	19,984
6,5	63	101	1	013050650	19,984
6,75	63	101	1	013050675	21,267
7	69	109	1	013050700	21,267
7,5	69	109	1	013050750	22,467
8	75	117	1	013050800	23,520
8,5	75	117	1	013050850	26,205
9	81	125	1	013050900	30,176
9,5	81	125	1	013050950	32,153
10	87	133	1	013051000	34,132
10,5	87	133	1	013051050	39,976
11	94	142	1	013051100	42,409
11,5	94	142	1	013051150	46,493
12	101	151	1	013051200	46,493
12,5	101	151	1	013051250	54,189
13	101	151	1	013051300	57,401

R ≤ 1300 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting, short serie

01307 | **HSS-CO 5%** | **TiAlN** | **DIN 1897 RETTIFICATA**

Ground from the solid

Serie extra corta

Extra short serie



W 35°

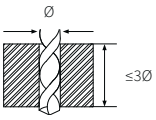


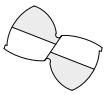
HSS-CO+TiAlN
Parabolic
DIN 1412/C
HV= 800÷860

AFFILATURA
A CROCE
Cross sharpening



<3 d





R ≤ 1300 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Confezione
Packaging





Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	46	1	013070300	**9,455**
3,2	18	49	1	013070320	**9,496**
3,25	18	49	1	013070325	**9,496**
3,3	18	49	1	013070330	**9,496**
3,5	20	52	1	013070350	**9,582**
3,7	20	52	1	013070370	**9,812**
3,75	20	52	1	013070375	**9,812**
3,8	22	55	1	013070380	**9,812**
4	22	55	1	013070400	**9,812**
4,2	22	55	1	013070420	**11,161**
4,25	22	55	1	013070425	**11,161**
4,5	24	58	1	013070450	**11,444**
4,7	24	58	1	013070470	**11,885**
4,75	24	58	1	013070475	**11,885**
4,8	26	62	1	013070480	**11,885**
5	26	62	1	013070500	**11,885**
5,2	26	62	1	013070520	**12,918**
5,25	26	62	1	013070525	**12,918**
5,5	28	66	1	013070550	**12,550**
5,7	28	66	1	013070570	**14,402**
5,75	28	66	1	013070575	**14,402**
5,8	28	66	1	013070580	**14,402**
6	28	66	1	013070600	**12,781**
6,5	31	70	1	013070650	**16,897**
6,8	34	74	1	013070680	**17,460**
7	34	74	1	013070700	**18,078**
7,5	34	74	1	013070750	**18,489**
8	37	79	1	013070800	**19,108**
8,5	37	79	1	013070850	**24,732**
9	40	84	1	013070900	**24,732**
9,5	40	84	1	013070950	**29,669**
10	43	89	1	013071000	**29,669**
10,5	43	89	1	013071050	**36,786**
11	47	95	1	013071100	**38,071**
11,5	47	95	1	013071150	**39,482**
12	51	102	1	013071200	**42,134**
12,5	51	102	1	013071250	**44,588**
13	51	102	1	013071300	**44,588**

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE - SERIE LUNGA

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting, short serie

01306 | **HSS-CO 5%** | **TiAlN** | **DIN 340 RETTIFICATA** *Ground from the solid* | **Serie lunga** *Long serie*

130° W 35°

HSS-CO+TiAlN
Parabolic
DIN 1412/C
HV ≈ 800÷860

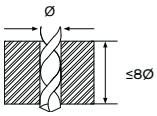
AFFILATURA
A CROCE
Cross sharpening

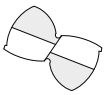
<8 d



Confezione
Packaging







R ≤ 1300 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

Ø h8	l	L	pcs.	cod.	€ cad/each
2,5	62	95	1	013060250	12,496
3	66	100	1	013060300	12,844
3,25	69	106	1	013060325	13,792
3,5	73	112	1	013060350	13,792
3,75	73	112	1	013060375	14,392
4	78	119	1	013060400	14,392
4,25	78	119	1	013060425	17,065
4,5	82	126	1	013060450	17,065
4,75	82	126	1	013060475	17,563
5	87	132	1	013060500	17,563
5,25	87	132	1	013060525	19,351
5,5	91	139	1	013060550	19,351
5,75	91	139	1	013060575	19,351
6	91	139	1	013060600	19,351
6,25	97	148	1	013060625	27,248
6,5	97	148	1	013060650	27,248
7	102	156	1	013060700	29,753
7,5	102	156	1	013060750	31,184
8	109	165	1	013060800	34,364
8,5	109	165	1	013060850	38,134
9	115	175	1	013060900	39,828
9,5	115	175	1	013060950	40,229
10	121	184	1	013061000	44,294
10,5	121	184	1	013061050	55,169
11	128	195	1	013061100	58,676
11,5	128	195	1	013061150	59,528
12	134	205	1	013061200	68,161
12,5	134	205	1	013061250	71,951
13	134	205	1	013061300	74,204

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE - SERIE CORTA

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting, short serie

01140 **HSS-CO 5%** **DIN 338 RETTIFICATA**

Ground from the solid

Serie corta

Short serie



W 35°



HSS-CO
Parabolic
DIN 1412/C
HV = 800÷860
AFFILATURA
A CROCE
Cross sharpening

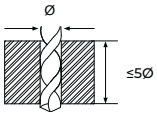


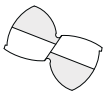
≤5 d



Confezione
Packaging







R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	l	L	pcs.	cod.	€ cad/each
2	24	49	10	011400200	2,686
2,25	27	53	10	011400225	2,686
2,5	30	57	10	011400250	2,686
2,75	33	61	10	011400275	2,864
3	33	61	10	011400300	2,864
3,2	36	65	10	011400320	3,191
3,25	36	65	10	011400325	3,191
3,5	39	70	10	011400350	3,191
3,75	39	70	10	011400375	3,519
4	43	75	10	011400400	3,519
4,2	43	75	10	011400420	4,240
4,25	43	75	10	011400425	4,240
4,5	47	80	10	011400450	4,240
4,75	47	80	10	011400475	4,637
4,8	52	86	10	011400480	4,637
5	52	86	10	011400500	4,637
5,2	52	86	10	011400520	5,481
5,25	52	86	10	011400525	5,481
5,5	57	93	10	011400550	5,481
5,75	57	93	10	011400575	6,065
6	57	93	10	011400600	6,065
6,25	63	101	10	011400625	7,868
6,5	63	101	10	011400650	7,868
6,75	63	101	10	011400675	9,117
7	69	109	10	011400700	9,117
7,5	69	109	5	011400750	10,276
8	75	117	5	011400800	11,305
8,5	75	117	5	011400850	13,910
9	81	125	5	011400900	15,062
9,5	81	125	5	011400950	16,985
10	87	133	5	011401000	18,896
10,5	87	133	5	011401050	22,128
11	94	142	5	011401100	24,485
11,5	94	142	5	011401150	28,450
12	101	151	5	011401200	28,450
12,5	101	151	5	011401250	34,037
13	101	151	5	011401300	37,160

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZAPER FORATURE PROFONDE

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting

01143 | **HSS-CO 5%** | **DIN 1897 RETTIFICATA**

Ground from the solid

Serie extra corta

Extra short serie



W 35°



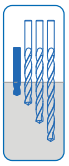
HSS-CO
Parabolic
DIN 1412/C
HV= 800÷860

AFFILATURA
A CROCE
Cross sharpening

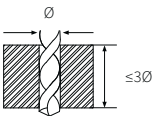


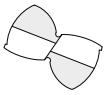
Confezione
Packaging





<3 d





R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	46	10	011430300	**1,821**
3,2	18	49	10	011430320	**1,864**
3,25	18	49	10	011430325	**1,864**
3,3	18	49	10	011430330	**1,864**
3,5	20	52	10	011430350	**1,953**
3,7	20	52	10	011430370	**2,180**
3,75	20	52	10	011430375	**2,180**
3,8	22	55	10	011430380	**2,180**
4	22	55	10	011430400	**2,180**
4,2	22	55	10	011430420	**2,288**
4,25	22	55	10	011430425	**2,431**
4,5	24	58	10	011430450	**2,581**
4,7	24	58	10	011430470	**3,028**
4,75	24	58	10	011430475	**3,216**
4,8	26	62	10	011430480	**3,330**
5	26	62	10	011430500	**3,330**
5,2	26	62	10	011430520	**3,895**
5,25	26	62	10	011430525	**3,895**
5,5	28	66	10	011430550	**3,537**
5,7	28	66	10	011430570	**5,352**
5,75	28	66	10	011430575	**5,352**
5,8	28	66	10	011430580	**5,352**
6	28	66	10	011430600	**3,756**
6,5	31	70	10	011430650	**4,906**
6,8	34	74	10	011430680	**7,132**
7	34	74	10	011430700	**6,054**
7,5	34	74	5	011430750	**6,461**
8	37	79	5	011430800	**7,065**
8,5	37	79	5	011430850	**9,840**
9	40	84	5	011430900	**9,840**
9,5	40	84	5	011430950	**14,666**
10	43	89	5	011431000	**14,666**
10,5	43	89	5	011431050	**19,135**
11	47	95	5	011431100	**20,393**
11,5	47	95	5	011431150	**21,771**
12	51	102	5	011431200	**24,358**
12,5	51	102	5	011431250	**24,873**
13	51	102	5	011431300	**24,873**

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting

01141 **HSS-CO 5%** **DIN 340 RETTIFICATA**

Ground from the solid

Serie lunga

Long serie



W 35°



HSS-CO
Parabolic
DIN 1412/C
HV = 800÷860

AFFILATURA
A CROCE
Cross sharpening

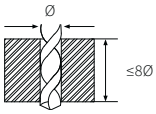


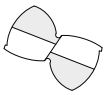
<8 d



Confezione
Packaging

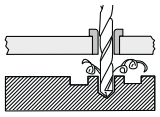






R ≤ 1200 N/mm²

Ø h8	l	L	pcs.	cod.	€ cad/each
2,5	62	95	10	011410250	**4,806**
3	66	100	10	011410300	**5,144**
3,25	69	106	10	011410325	**6,075**
3,5	73	112	10	011410350	**6,075**
3,75	73	112	10	011410375	**6,649**
4	78	119	10	011410400	**6,649**
4,25	78	119	10	011410425	**7,948**
4,5	82	126	10	011410450	**7,948**
4,75	82	126	10	011410475	**8,434**
5	87	132	10	011410500	**8,434**
5,25	87	132	10	011410525	**10,177**
5,5	91	139	10	011410550	**10,177**
5,75	91	139	10	011410575	**10,177**
6	91	139	10	011410600	**10,177**
6,25	97	148	5	011410625	**15,011**
6,5	97	148	5	011410650	**15,011**
7	102	156	5	011410700	**17,460**
7,5	102	156	5	011410750	**18,847**
8	109	165	5	011410800	**20,889**
8,5	109	165	5	011410850	**22,930**
9	115	175	5	011410900	**24,584**
9,5	115	175	5	011410950	**24,970**
10	121	184	5	011411000	**26,883**
10,5	121	184	5	011411050	**37,090**
11	128	195	5	011411100	**40,518**
11,5	128	195	5	011411150	**41,340**
12	134	205	5	011411200	**45,503**
12,5	134	205	5	011411250	**46,899**
13	134	205	5	011411300	**49,100**



Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE AL COBALTO 5%, SERIE EXTRA LUNGA
Cobalt extra long straight shank twist drills

01376 HSS-CO 5% DIN 1869/1 PARABOLIC

Serie extra lunga
Extra long serie

130° W 35°

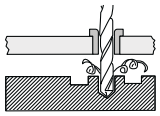
≥10 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	100	150	1	013760300	39,006
3,5	115	165	1	013760350	39,006
4	120	175	1	013760400	39,836
4,5	125	185	1	013760450	41,380
5	135	195	1	013760500	31,891
5,5	140	205	1	013760550	36,941
6	140	205	1	013760600	37,399
6,5	150	215	1	013760650	46,156
7	155	225	1	013760700	52,915
7,5	155	225	1	013760750	56,626
8	165	240	1	013760800	52,692
8,5	165	240	1	013760850	69,550
9	175	250	1	013760900	71,244
9,5	175	250	1	013760950	84,648
10	185	265	1	013761000	77,119



Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

01377 HSS-CO 5% DIN 1869/2 PARABOLIC

Serie extra lunga
Extra long serie

130° W 35°

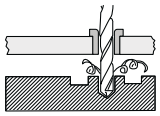
≥10 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	130	190	1	013770300	55,732
3,5	145	210	1	013770350	49,212
4	150	220	1	013770400	50,356
4,5	160	235	1	013770450	54,072
5	170	245	1	013770500	51,605
5,5	180	260	1	013770550	56,281
6	180	260	1	013770600	53,138
6,5	190	275	1	013770650	79,574
7	200	290	1	013770700	84,286
7,5	200	290	1	013770750	88,729
8	210	305	1	013770800	88,378
8,5	210	305	1	013770850	96,571
9	220	320	1	013770900	92,836
9,5	220	320	1	013770950	107,195
10	235	340	1	013771000	89,978



Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

PUNTE ELICOIDALI CILINDRICHE AL COBALTO 5%, SERIE EXTRA LUNGA

Cobalt extra long straight shank twist drills

01378 **HSS-CO 5%** **DIN 1869/3** **PARABOLIC**

Serie extra lunga
Extra long serie



W 35°



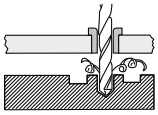
≥10 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	160	240	1	013780300	**72,458**
3,5	180	265	1	013780350	**64,023**
4	190	280	1	013780400	**65,503**
4,5	200	295	1	013780450	**70,287**
5	210	315	1	013780500	**70,926**
5,5	225	330	1	013780550	**69,393**
6	225	330	1	013780600	**66,783**
6,5	235	350	1	013780650	**98,057**
7	250	370	1	013780700	**103,930**
7,5	250	370	1	013780750	**109,356**
8	265	390	1	013780800	**105,334**
8,5	265	390	1	013780850	**125,603**
9	280	410	1	013780900	**114,464**
9,5	280	410	1	013780950	**144,724**
10	295	430	1	013781000	**140,212**
10,5	295	430	1	013781050	**162,964**
11	310	455	1	013781100	**220,879**
11,5	310	455	1	013781150	**243,318**
12	330	480	1	013781200	**245,385**
12,5	330	480	1	013781250	**245,385**
13	330	480	1	013781300	**259,677**



Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI AL COBALTO 5% CON ELICA RAPIDA TIPO W, PER IL TAGLIO DEGLI ACCIAI INOX, ACCIAI RESISTENTI AL CALORE ED AUSTENITICI (V2A-V4A)

Cobalt twist drill with W type flute to cut stainless steel, heat resistant steel, austenitic steel (V2A-V4A)

01139 **HSS-CO 5%** **DIN 338 RETTIFICATA W36°**

Ground from the solid

Serie corta

Short serie

130° W 36°

HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)

<5 d



Confezione
Packaging





W 36°

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox
Stainless

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Ø h8	l	L	pcs.	cod.	€ cad/each
1	12	34	10	011390100	2,475
1,25	16	38	10	011390125	2,475
1,5	18	40	10	011390150	1,939
1,75	22	46	10	011390175	2,218
2	24	49	10	011390200	1,761
2,25	27	53	10	011390225	1,939
2,5	30	57	10	011390250	1,939
2,75	33	61	10	011390275	1,939
2,8	33	61	10	011390280	1,939
3	33	61	10	011390300	1,939
3,2	36	65	10	011390320	1,939
3,25	36	65	10	011390325	2,308
3,3	36	65	10	011390330	2,308
3,4	39	70	10	011390340	2,386
3,5	39	70	10	011390350	2,386
3,7	39	70	10	011390370	2,475
3,75	39	70	10	011390375	2,821
3,8	43	75	10	011390380	2,821
4	43	75	10	011390400	2,664
4,1	43	75	10	011390410	2,921
4,2	43	75	10	011390420	2,921
4,25	43	75	10	011390425	3,099
4,5	47	80	10	011390450	2,999
4,75	47	80	10	011390475	3,277
4,8	52	86	10	011390480	3,277
5	52	86	10	011390500	3,277
5,2	52	86	10	011390520	3,624
5,25	52	86	10	011390525	3,624
5,5	57	93	10	011390550	4,415
5,75	57	93	10	011390575	4,415
6	57	93	10	011390600	4,415
6,25	63	101	10	011390625	7,124
6,5	63	101	10	011390650	7,637
6,75	69	109	10	011390675	9,799
7	69	109	10	011390700	9,152
7,25	69	109	5	011390725	10,301
7,5	69	109	5	011390750	10,301
7,75	75	117	5	011390775	11,048
8	75	117	5	011390800	11,048
8,25	75	117	5	011390825	11,816
8,5	75	117	5	011390850	11,694
8,75	81	125	5	011390875	14,357
9	81	125	5	011390900	14,357
9,25	81	125	5	011390925	15,506
9,5	81	125	5	011390950	15,506
9,75	87	133	5	011390975	17,022
10	87	133	5	011391000	17,022
10,25	87	133	5	011391025	21,348
10,5	87	133	5	011391050	21,348
10,75	94	142	5	011391075	25,026
11	94	142	5	011391100	25,026
11,25	94	142	5	011391125	26,176
11,5	94	142	5	011391150	26,176
11,75	94	142	5	011391175	28,951
12	101	151	5	011391200	28,951
12,25	101	151	5	011391225	31,615
12,5	101	151	5	011391250	31,615
12,75	101	151	5	011391275	32,262
13	101	151	5	011391300	32,262

V2A è la classificazione tedesca dell'acciaio inox 304, mentre V4A è l'inox 316.

V2A is german standard for 304 stainless steel, V4A is 316 stainless steel.

PUNTE ELICOIDALI AL COBALTO 5%, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA
Cobalt twist drills ground from the solid

01145 | **HSS-CO 5%** | **DIN 338**
Ground from the solid

Serie corta
Short serie

130° W 27°

HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)

<5 d



Confezione
Packaging



R ≤ 1200 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

Art. 01144 Self
Disponibile su richiesta
On demand

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

Ø h8	l	L	pcs.	cod.	€ cad/each
0,2	2,5	19	10	011450020	2,591
0,25	3	19	10	011450025	2,591
0,3	3	19	10	011450030	2,591
0,35	4	19	10	011450035	2,591
0,4	5	20	10	011450040	2,591
0,45	5	20	10	011450045	2,591
0,5	6	22	10	011450050	2,591
0,55	7	24	10	011450055	2,591
0,6	7	24	10	011450060	2,591
0,65	8	26	10	011450065	2,591
0,7	9	28	10	011450070	2,591
0,75	9	28	10	011450075	2,591
0,8	10	30	10	011450080	2,591
0,85	10	30	10	011450085	2,591
0,9	11	32	10	011450090	2,591
0,95	11	32	10	011450095	2,591
1	12	34	10	011450100	1,655
1,1	14	36	10	011450110	1,834
1,2	16	38	10	011450120	1,834
1,25	16	38	10	011450125	1,834
1,3	16	38	10	011450130	1,834
1,4	18	40	10	011450140	1,834
1,5	18	40	10	011450150	1,655
1,6	20	43	10	011450160	1,750
1,7	20	43	10	011450170	1,750
1,75	22	46	10	011450175	1,750
1,8	22	46	10	011450180	1,750
1,9	22	46	10	011450190	1,750
2	24	49	10	011450200	1,595
2,1	24	49	10	011450210	1,943
2,2	27	53	10	011450220	1,943
2,25	27	53	10	011450225	1,943
2,3	27	53	10	011450230	1,943
2,4	30	57	10	011450240	1,943
2,5	30	57	10	011450250	1,679
2,6	30	57	10	011450260	1,847
2,7	33	61	10	011450270	1,847
2,75	33	61	10	011450275	1,847
2,8	33	61	10	011450280	1,847
2,9	33	61	10	011450290	1,847
3	33	61	10	011450300	1,679
3,1	36	65	10	011450310	2,301
3,2	36	65	10	011450320	2,301
3,25	36	65	10	011450325	2,301
3,3	36	65	10	011450330	2,301
3,4	39	70	10	011450340	2,301
3,5	39	70	10	011450350	2,087
3,6	39	70	10	011450360	2,722
3,7	39	70	10	011450370	2,722
3,75	39	70	10	011450375	2,722
3,8	43	75	10	011450380	2,722
3,9	43	75	10	011450390	2,722
4	43	75	10	011450400	2,482
4,1	43	75	10	011450410	3,129
4,2	43	75	10	011450420	3,129
4,25	43	75	10	011450425	3,129
4,3	47	80	10	011450430	3,129
4,4	47	80	10	011450440	3,129
4,5	47	80	10	011450450	2,843
4,6	47	80	10	011450460	3,298
4,7	47	80	10	011450470	3,298
4,75	47	80	10	011450475	3,298
4,8	52	86	10	011450480	3,298
4,9	52	86	10	011450490	3,298
5	52	86	10	011450500	2,999
5,1	52	86	10	011450510	4,018
5,2	52	86	10	011450520	4,018
5,25	52	86	10	011450525	4,018
5,3	52	86	10	011450530	4,018
5,4	57	93	10	011450540	4,018
5,5	57	93	10	011450550	3,825
5,6	57	93	10	011450560	4,629
5,7	57	93	10	011450570	4,629
5,75	57	93	10	011450575	4,629
5,8	57	93	10	011450580	4,629
5,9	57	93	10	011450590	4,629
6	57	93	10	011450600	4,245
6,1	63	101	10	011450610	5,455
6,2	63	101	10	011450620	5,455
6,25	63	101	10	011450625	5,455
6,3	63	101	10	011450630	5,455
6,4	63	101	10	011450640	5,455
6,5	63	101	10	011450650	5,049
6,6	63	101	10	011450660	6,668
6,7	63	101	10	011450670	6,668
6,75	69	109	10	011450675	6,668
6,8	69	109	10	011450680	6,668
6,9	69	109	10	011450690	6,668
7	69	109	10	011450700	6,165
7,1	69	109	5	011450710	7,435
7,2	69	109	5	011450720	7,435
7,25	69	109	5	011450725	7,435
7,3	69	109	5	011450730	7,435
7,4	69	109	5	011450740	7,435
7,5	69	109	5	011450750	6,764
7,6	75	117	5	011450760	8,756
7,7	75	117	5	011450770	8,756
7,75	75	117	5	011450775	8,756
7,8	75	117	5	011450780	8,756
7,9	75	117	5	011450790	8,756
8	75	117	5	011450800	7,962
8,1	75	117	5	011450810	9,271
8,2	75	117	5	011450820	9,271
8,25	75	117	5	011450825	9,271
8,3	75	117	5	011450830	9,271
8,4	75	117	5	011450840	9,271
8,5	75	117	5	011450850	8,430
8,6	81	125	5	011450860	11,333
8,7	81	125	5	011450870	11,333
8,75	81	125	5	011450875	11,333
8,8	81	125	5	011450880	11,333
8,9	81	125	5	011450890	11,333
9	81	125	5	011450900	10,302
9,1	81	125	5	011450910	11,859
9,2	81	125	5	011450920	11,859
9,25	81	125	5	011450925	11,859
9,3	81	125	5	011450930	11,859
9,4	81	125	5	011450940	11,859
9,5	81	125	5	011450950	10,782
9,6	87	133	5	011450960	13,767
9,7	87	133	5	011450970	13,767
9,75	87	133	5	011450975	13,767
9,8	87	133	5	011450980	13,767
9,9	87	133	5	011450990	13,767
10	87	133	5	011451000	12,519
10,1	87	133	5	011451010	16,393

Ø h8	l	L	pcs.	cod.	€ cad/each
10,2	87	133	5	011451020	**16,393**
10,25	87	133	5	011451025	**16,393**
10,3	87	133	5	011451030	**16,393**
10,4	87	133	5	011451040	**16,393**
10,5	87	133	5	011451050	**14,906**
10,6	87	133	5	011451060	**18,540**
10,7	94	142	5	011451070	**18,540**
10,75	94	142	5	011451075	**18,540**
10,8	94	142	5	011451080	**18,540**
10,9	94	142	5	011451090	**18,540**
11	94	142	5	011451100	**16,850**
11,1	94	142	5	011451110	**20,206**
11,2	94	142	5	011451120	**20,206**
11,25	94	142	5	011451125	**20,206**
11,3	94	142	5	011451130	**20,206**
11,4	94	142	5	011451140	**20,206**
11,5	94	142	5	011451150	**18,372**
11,6	94	142	5	011451160	**22,246**
11,7	94	142	5	011451170	**22,246**
11,75	94	142	5	011451175	**22,246**
11,8	94	142	5	011451180	**22,246**
11,9	101	151	5	011451190	**22,246**
12	101	151	5	011451200	**20,219**
12,1	101	151	5	011451210	**24,057**
12,2	101	151	5	011451220	**24,057**
12,25	101	151	5	011451225	**24,057**
12,3	101	151	5	011451230	**24,057**
12,4	101	151	5	011451240	**24,057**
12,5	101	151	5	011451250	**21,874**
12,6	101	151	5	011451260	**26,205**
12,7	101	151	5	011451270	**26,205**
12,75	101	151	5	011451275	**26,205**
12,8	101	151	5	011451280	**26,205**
12,9	101	151	5	011451290	**26,205**
13	101	151	5	011451300	**23,817**
13,1	101	151	3	011451310	**37,777**
13,2	101	151	3	011451320	**37,777**
13,25	108	160	3	011451325	**37,777**
13,3	108	160	3	011451330	**37,777**
13,4	108	160	3	011451340	**37,777**
13,5	108	160	3	011451350	**37,777**
13,6	108	160	3	011451360	**39,814**
13,7	108	160	3	011451370	**39,814**
13,75	108	160	3	011451375	**39,814**
13,8	108	160	3	011451380	**39,814**
13,9	108	160	3	011451390	**39,814**
14	108	160	3	011451400	**39,814**
14,1	108	160	3	011451410	**43,918**
14,2	114	169	3	011451420	**43,918**
14,25	114	169	3	011451425	**43,918**
14,3	114	169	3	011451430	**43,918**
14,4	114	169	3	011451440	**43,918**
14,5	114	169	3	011451450	**43,918**
14,6	114	169	3	011451460	**46,171**
14,7	114	169	3	011451470	**46,171**
14,75	114	169	3	011451475	**46,171**
14,8	114	169	3	011451480	**46,171**
14,9	114	169	3	011451490	**46,171**
15	114	169	3	011451500	**46,171**
15,1	120	178	3	011451510	**46,171**
15,2	120	178	3	011451520	**46,171**
15,25	120	178	3	011451525	**46,171**
15,3	120	178	3	011451530	**53,128**
15,4	120	178	3	011451540	**53,128**
15,5	120	178	3	011451550	**53,128**
15,6	120	178	3	011451560	**53,128**
15,7	120	178	3	011451570	**53,128**
15,75	120	178	3	011451575	**54,409**
15,8	120	178	3	011451580	**54,409**
15,9	120	178	3	011451590	**54,409**
16	120	178	3	011451600	**54,409**
16,25	125	184	1	011451625	**55,345**
16,5	125	184	1	011451650	**55,345**
16,75	125	184	1	011451675	**55,345**
17	125	184	1	011451700	**55,345**
17,25	130	191	1	011451725	**71,835**
17,5	130	191	1	011451750	**71,835**
17,75	130	191	1	011451775	**71,835**
18	130	191	1	011451800	**71,835**
18,25	135	198	1	011451825	**82,483**
18,5	135	198	1	011451850	**82,483**
18,75	135	198	1	011451875	**82,483**
19	135	198	1	011451900	**82,483**
19,25	140	205	1	011451925	**95,293**
19,5	140	205	1	011451950	**95,293**
19,75	140	205	1	011451975	**95,293**
20	140	205	1	011452000	**95,293**

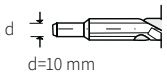
PUNTE ELICOIDALI AL COBALTO 5% CON CODOLO RIDOTTO, ESECUZIONE RETTIFICATA, SERIE CORTA

Cobalt twist drills ground from the solid

01147 **HSS-CO 5%** **DIN 338**

Codolo ridotto - 10mm
Reduced shank - 10mm





Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	011471025	17,897
10,5	87	133	10	5	011471050	16,505
10,75	94	142	10	5	011471075	19,907
11	94	142	10	5	011471100	18,322
11,25	94	142	10	5	011471125	21,465
11,5	94	142	10	5	011471150	19,748
11,75	94	142	10	5	011471175	23,374
12	101	151	10	5	011471200	21,478
12,25	101	151	10	5	011471225	25,081
12,5	101	151	10	5	011471250	23,027
12,75	101	151	10	5	011471275	27,079
13	101	151	10	5	011471300	24,845
13,25	108	160	10	3	011471325	38,510
13,5	108	160	10	3	011471350	38,510
13,75	108	160	10	3	011471375	39,519
14	108	160	10	3	011471400	39,519
14,25	114	169	10	3	011471425	44,684
14,5	114	169	10	3	011471450	44,684
14,75	114	169	10	3	011471475	46,143
15	114	169	10	3	011471500	46,143
15,25	120	178	10	3	011471525	53,666
15,5	120	178	10	3	011471550	53,666
15,75	120	178	10	3	011471575	55,596
16	120	178	10	3	011471600	55,596
16,5	125	184	10	1	011471650	56,471
17	125	184	10	1	011471700	56,471
17,5	130	191	10	1	011471750	72,695
18	130	191	10	1	011471800	72,695
18,5	135	198	10	1	011471850	83,439
19	135	198	10	1	011471900	83,439
19,5	140	205	10	1	011471950	97,057
20	140	205	10	1	011472000	97,057

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox
Stainless

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

Art. 01151 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI AL COBALTO 5% CON CODOLO RIDOTTO, ESECUZIONE RETTIFICATA, SERIE CORTA

Cobalt twist drills ground from the solid

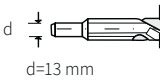
01146 **HSS-CO 5%** **DIN 338**

Codolo ridotto - 13mm
Reduced shank - 13mm



Confezione
Packaging





Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	011461325	**38,510**
13,5	108	160	13	3	011461350	**38,510**
13,75	108	160	13	3	011461375	**39,519**
14	108	160	13	3	011461400	**39,519**
14,25	114	169	13	3	011461425	**44,684**
14,5	114	169	13	3	011461450	**44,684**
14,75	114	169	13	3	011461475	**46,143**
15	114	169	13	3	011461500	**46,143**
15,25	120	178	13	3	011461525	**53,666**
15,5	120	178	13	3	011461550	**53,666**
15,75	120	178	13	3	011461575	**55,596**
16	120	178	13	3	011461600	**55,596**
16,5	125	184	13	1	011461650	**56,471**
17	125	184	13	1	011461700	**56,471**
17,5	130	191	13	1	011461750	**72,695**
18	130	191	13	1	011461800	**72,695**
18,5	135	198	13	1	011461850	**83,439**
19	135	198	13	1	011461900	**83,439**
19,5	140	205	13	1	011461950	**97,057**
20	140	205	13	1	011462000	**97,057**
20,5	145	213	13	1	011462050	**100,997**
21	145	213	13	1	011462100	**100,997**
21,5	150	221	13	1	011462150	**102,364**
22	150	221	13	1	011462200	**102,364**
22,5	150	221	13	1	011462250	**109,945**
23	155	229	13	1	011462300	**109,945**
23,5	155	229	13	1	011462350	**118,615**
24	160	236	13	1	011462400	**118,615**
24,5	160	236	13	1	011462450	**127,637**
25	160	236	13	1	011462500	**127,637**

R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless


Metalli
Metals


Acciaio
Steel


Emulsione
Lubrificant

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

PUNTE ELICOIDALI AL COBALTO 5%, SERIE EXTRA CORTA
Cobalt straight shank twist drills, stub serie

01149 HSS-CO 5% DIN 1897

Extra corta
Extra short serie

130° W 27°

HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C

<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
3	16	46	10	011490300	2,187
3,2	18	49	10	011490320	2,532
3,25	18	49	10	011490325	2,781
3,5	20	52	10	011490350	2,781
3,75	20	52	10	011490375	3,065
4	22	55	10	011490400	3,065
4,2	22	55	10	011490420	3,262
4,25	22	55	10	011490425	3,496
4,5	24	58	10	011490450	3,496
4,75	24	58	10	011490475	3,719
5	26	62	10	011490500	3,719
5,25	26	62	10	011490525	4,059
5,5	28	66	10	011490550	5,053
5,75	28	66	10	011490575	5,251
6	28	66	10	011490600	5,251
6,5	31	70	10	011490650	5,475
7	34	74	10	011490700	6,615
7,5	34	74	5	011490750	7,596
8	37	79	5	011490800	9,371
8,5	37	79	5	011490850	9,811
9	40	84	5	011490900	11,424
9,5	40	84	5	011490950	12,519
10	43	89	5	011491000	15,123

Applicazioni
Applications

Inox *Stainless*

Metalli *Metals*

Acciaio *Steel*

Emulsione *Lubrificant*

Punte speciali per la foratura di lamiere e tubi in acciaio inox e lamiere metalliche in genere (acciaio, ferro, rame). Speciali per lattonieri, carpentieri, coperturisti, fabbri, installatori.

Super short twist drills for cutting stainless metal sheets.
Special for journeymen's, carpenters, locksmith's, tinsmith's.



01051 HSS-CO 5% NORMA KRINO

Super corta
Super short serie

130° W 27°

HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C

<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
3	16	35	10	010510300	1,484
3,25	19	40	10	010510325	1,484
3,5	19	40	10	010510350	1,484
3,75	19	40	10	010510375	2,111
4	20	40	10	010510400	2,231
4,25	20	40	10	010510425	2,425
4,5	23	42	10	010510450	2,805
5	23	45	10	010510500	3,108

Applicazioni
Applications

Inox *Stainless*

Acciaio *Steel*

Metalli *Metals*

Emulsione *Lubrificant*

Punte speciali per la foratura di lamiere e tubi in acciaio inox e lamiere metalliche in genere (acciaio, ferro, rame). Speciali per lattonieri, carpentieri, coperturisti, fabbri, installatori.

Super short twist drills for cutting stainless metal sheets.
Special for journeymen's, carpenters, locksmith's, tinsmith's.



PUNTE ELICOIDALI AL COBALTO 5%, ELICA CONTRAPPOSTA
Cobalt straight shank twist drills, double ended

01148 **HSS-CO 5%**

Elica contrapposta
Double ended



W 27°



HV = 800÷860
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)



<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
2	10	38	10	011480200	**2,947**
2,5	10	43	10	011480250	**2,947**
3	10	46	10	011480300	**2,947**
3,25	10	49	10	011480325	**3,767**
3,5	12	52	10	011480350	**3,413**
3,75	12	55	10	011480375	**4,038**
4	12	55	10	011480400	**3,659**
4,1	12	55	10	011480410	**4,523**
4,25	12	58	10	011480425	**4,523**
4,5	12	58	10	011480450	**4,125**
4,75	13	62	10	011480475	**5,301**
4,9	13	62	10	011480490	**4,825**
5	13	62	10	011480500	**4,825**
5,1	13	62	10	011480510	**5,840**
5,5	16	66	10	011480550	**5,840**
6	16	66	10	011480600	**6,909**



Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE AL COBALTO 5%, SERIE LUNGA

Cobalt long straight shank twist drills

01152 **HSS-CO 5%** **DIN 340**

Serie lunga
Long serie

130° W 27°

HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C

<8 d



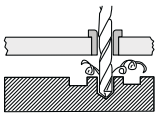
Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
1	33	56	10	011520100	1,572
1,5	45	70	10	011520150	1,572
1,75	53	80	10	011520175	1,913
2	56	85	10	011520200	3,283
2,25	59	90	10	011520225	2,532
2,5	62	95	10	011520250	3,837
2,75	66	100	10	011520275	3,821
3	66	100	10	011520300	4,110
3,25	69	106	10	011520325	4,580
3,5	73	112	10	011520350	4,580
3,75	73	112	10	011520375	5,729
4	78	119	10	011520400	5,729
4,25	78	119	10	011520425	6,840
4,5	82	126	10	011520450	6,840
4,75	82	126	10	011520475	7,264
5	87	132	10	011520500	7,264
5,25	87	132	10	011520525	9,101
5,5	91	139	10	011520550	9,101
5,75	91	139	10	011520575	9,814
6	91	139	10	011520600	9,814
6,25	97	148	5	011520625	11,747
6,5	97	148	5	011520650	11,747
6,75	97	148	5	011520675	13,646
7	102	156	5	011520700	13,646
7,25	102	156	5	011520725	14,842
7,5	102	156	5	011520750	14,842
7,75	109	165	5	011520775	17,525
8	109	165	5	011520800	17,525
8,25	109	165	5	011520825	18,613
8,5	109	165	5	011520850	18,613
8,75	115	175	5	011520875	21,756
9	115	175	5	011520900	21,756
9,25	115	175	5	011520925	24,112
9,5	115	175	5	011520950	24,112
9,75	121	184	5	011520975	28,041
10	121	184	5	011521000	28,041
10,25	121	184	5	011521025	30,401
10,5	121	184	5	011521050	33,252
10,75	128	195	5	011521075	33,741
11	128	195	5	011521100	38,340
11,25	128	195	5	011521125	36,687
11,5	128	195	5	011521150	41,722
11,75	134	205	5	011521175	42,361
11,8	134	205	5	011521180	42,361
12	134	205	5	011521200	48,171
12,25	134	205	5	011521225	45,531
12,5	134	205	5	011521250	51,774
12,75	134	205	5	011521275	48,733
13	134	205	5	011521300	55,409
13,5	140	214	3	011521350	62,920
14	140	214	3	011521400	62,920
14,5	144	220	3	011521450	71,007
15	144	220	3	011521500	71,007
15,5	149	227	3	011521550	83,709
16	149	227	3	011521600	83,709
16,5	154	235	1	011521650	95,920
17	154	235	1	011521700	95,920
17,5	158	241	1	011521750	110,595
18	158	241	1	011521800	110,595
18,5	162	247	1	011521850	137,790
19	162	247	1	011521900	137,790
19,5	166	254	1	011521950	157,621
20	166	254	1	011522000	157,621

Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*



PUNTE ELICOIDALI IN POLLICI AL COBALTO 5%, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA

Cobalt twist drills ground from the solid in inches

01157 **HSS-CO 5%** **ANSI B94**

Serie corta - Pollici
Short series - Inches



W 27°



HV=800÷860
AISI M35
SPLIT POINT
DIN 1412 C



<5 d

R ≤ 1200 N/mm²



Confezione
Packaging



Ø inch	Ø mm	l inch	L inch	pcs.	cod.	€ cad/each
1/16	1,59	7/8	1-7/8	10	0115714	2,365
5/64	1,98	1”	2”	10	0115715	2,365
3/32	2,38	1-1/4	2-1/4	10	0115716	2,458
7/64	2,78	1-1/2	2-5/8	10	0115717	2,458
1/8	3,17	1-5/8	2-3/4	10	0115718	2,458
9/64	3,57	1-3/4	2-7/8	10	0115719	2,994
5/32	3,97	2	3-1/8	10	0115720	3,211
11/64	4,37	2-1/8	3-1/4	10	0115721	3,640
3/16	4,76	2-5/16	3-1/2	10	0115722	3,949
13/64	5,16	2-7/16	3-5/8	10	0115723	4,377
7/32	5,56	2-1/2	3-3/4	10	0115724	5,238
15/64	5,95	2-5/8	3-7/8	10	0115725	5,238
1/4	6,35	2-3/4	4”	10	0115726	6,971
17/64	6,75	2-7/8	4-1/8	10	0115727	8,836
9/32	7,14	2-15/16	4-1/4	5	0115728	9,063
19/64	7,54	3-1/16	4-3/8	5	0115729	9,412
5/16	7,94	3-3/16	4-1/2	5	0115730	10,098
21/64	8,33	3-5/16	4-5/8	5	0115731	10,797
11/32	8,73	3-7/16	4-3/4	5	0115732	13,001
23/64	9,13	3-1/2	4-7/8	5	0115733	13,214
3/8	9,52	3-5/8	5”	5	0115734	14,746
25/64	9,92	3-3/4	5-1/8	5	0115735	15,445
13/32	10,32	3-7/8	5-1/4	5	0115736	19,472
27/64	10,72	3-15/16	5-3/8	5	0115737	22,763
7/16	11,11	4-1/16	5-1/2	5	0115738	23,797
29/64	11,51	4-3/16	5-5/8	5	0115739	23,797
15/32	11,91	4-5/16	5-3/4	5	0115740	26,469
31/64	12,30	4-7/16	5-7/8	5	0115741	28,887
1/2	12,70	4-1/2	6”	5	0115742	29,410

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

01 Taglio altamente professionale
High quality cuts

Taglio altamente professionale con trapani portatili o stazionari in: acciai legati ed altamente legati, acciaio inox fino a R ≤ 900 N/mm², ferro, alluminio, metalli.

High quality cuts with portable or bench drilling machines into: alloy steel, high alloy steel, stainless steel up to R ≤ 900 N/mm², iron, aluminium, metals.

02 3 pianetti antislittamento (Ø > 5 mm)
3 plats antirotation (Ø > 5 mm)

Piena trasmissione della potenza

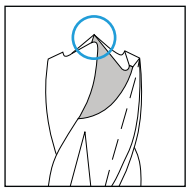
Full power transmission

03 Cave ampie e lisce
Wide and smooth flutes

Facile estrazione dei trucioli

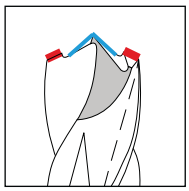
Easy chip removal

04 Affilatura speciale
Special Sharpening



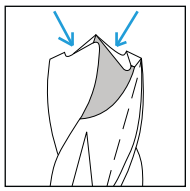
Micropunta autocentrante:
Facile centratura sul pezzo e agevole partenza del taglio.

Micro self-centering tip:
Easiness of spot-drilling and start cut.



Doppia coppia di taglienti con spoglia variabile:
Massima capacità di taglio con grande durata del filo tagliente.

Double couple of cutting edges with variable relief:
Maximum cutting capacity, with high resistance of the cutting edges.



Coppia di rompitruciolo:
Evita la formazione di taglienti di riporto.

Double chip-breaker:
Avoid the creation of built-up cutting edges.



01220 HSS-G

DIN 338
Ground from the solid

Serie corta
Short serie

130° **W 27°**

AISI M2
HV = 820÷850
SPLIT POINT
(Ø ≥ 2,5 mm)

<5 d

R ≤ 900 N/mm²



Confezione
Packaging





Doppio conoide
Double conoid

Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Emulsione *Lubrificant*

Art. 01221 Self
Disponibile su richiesta
On demand

Ø h8	l	L	pcs.	cod.	€ cad/each
1	12	34	10	012200100	1,804
1,25	16	38	10	012200125	1,979
1,5	18	40	10	012200150	1,804
1,75	22	46	10	012200175	1,979
2	24	49	10	012200200	1,804
2,25	27	53	10	012200225	2,007
2,5	30	57	10	012200250	1,831
2,75	33	61	10	012200275	2,157
3	33	61	10	012200300	1,953
3,1	33	61	10	012200310	2,241
3,25	36	65	10	012200325	2,521
3,3	36	65	10	012200330	2,292
3,5	39	70	10	012200350	2,292
3,75	39	70	10	012200375	2,780
4	43	75	10	012200400	2,521
4,1	43	75	10	012200410	2,897
4,25	43	75	10	012200425	3,011
4,3	43	75	10	012200430	3,011
4,5	47	80	10	012200450	2,725
4,75	47	80	10	012200475	3,444
5	52	86	10	012200500	3,282
5,1	52	86	10	012200510	4,461
5,25	52	86	10	012200525	4,461
5,5	57	93	10	012200550	4,135
5,75	57	93	10	012200575	4,841
6	57	93	10	012200600	4,407
6,25	63	101	10	012200625	5,709
6,5	63	101	10	012200650	5,195
6,75	69	109	10	012200675	6,685
7	69	109	10	012200700	6,075
7,25	69	109	5	012200725	7,160
7,5	69	109	5	012200750	6,495
7,75	75	117	5	012200775	8,407
8	75	117	5	012200800	8,001
8,25	75	117	5	012200825	9,194
8,5	75	117	5	012200850	8,651
8,75	81	125	5	012200875	10,903
9	81	125	5	012200900	9,900
9,25	81	125	5	012200925	11,553
9,5	81	125	5	012200950	10,847
9,75	87	133	5	012200975	13,070
10	87	133	5	012201000	12,462
10,25	87	133	5	012201025	14,427
10,5	87	133	5	012201050	13,492
10,75	94	142	5	012201075	16,746
11	94	142	5	012201100	15,228
11,25	94	142	5	012201125	18,211
11,5	94	142	5	012201150	16,542
11,75	94	142	5	012201175	20,299
12	101	151	5	012201200	18,996
12,25	101	151	5	012201225	21,899
12,5	101	151	5	012201250	20,367
12,75	101	151	5	012201275	23,323
13	101	151	5	012201300	21,777

Taglio altamente professionale con trapani portatili o stazionari in: acciai legati ed altamente legati, acciaio inox fino a R ≤ 900 N/mm², ferro, alluminio, metalli.

High quality cuts with portable or bench drilling machines into: alloy steel, high alloy steel, stainless steel up to R ≤ 900 N/mm², iron, aluminium, metals.

STEP+



Punta tradizionale
Traditional drill bit

PUNTA STEP+

01 Fori perfetti
Perfect holes

La speciale geometria della punta a gradino (ø ≥ 3 mm) permette di eseguire fori estremamente precisi nelle dimensioni e perfettamente circolari nella forma.

The special geometry of the step drill bit (Ø ≥ 3 mm) permits making holes that are extremely precise in size and perfectly circular in shape.

02 30% più veloce
30% Faster

La punta STEP+ risulta il 30% più veloce rispetto ad una punta elicoidale con affilatura tradizionale.

The STEP+ drill bit is 30% faster than a traditionally sharpened helical drill bit

03 Elevata durata
High durability

La punta STEP+ garantisce un'elevata costanza di rendimento ed una prolungata vita utile anche in condizioni d'uso intensivo.

The STEP+ drill bit guarantees high consistency of performance and prolonged tool life even under intensive use.

04 Pratica, anche su superfici tonde
Practical, even on round surfaces

La STEP+ infatti non «strappa» mai, il foro viene eseguito dolcemente senza generare eccessiva forza torcente.

The STEP+ never "tears" and the hole is drilled smoothly without generating excessive torque.

05 Versatile
Versatile

STEP+ risulta estremamente pratica anche per allargare fori pre esistenti, e risulta efficace anche su svariati materiali solidi come plastica e legno.

STEP+ is also extremely practical for enlarging preexisting holes, and is also effective on a variety of solid materials such as plastic and wood.



01401

HSS-G

DIN 338
Ground from the solid

Serie corta
Short serie

Ø≥3 mm

130° **W 27°**

<5 d



R ≤ 900 N/mm²

Applicazioni
Applications

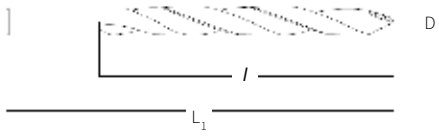
- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Emulsione *Lubrificant*
- Plastica *Plastic*
- Legno *Wood*



Confezione
Packaging



Ø	l	L	n° gradini *n° steps*	pcs.	cod.	€ cad/each
1	12	34	-	10	014010100	1,714
1.5	18	40	-	10	014010150	1,714
2	24	49	-	10	014010200	1,714
2.5	30	57	-	10	014010250	1,739
3	33	61	1	10	014010300	1,855
3.2	36	65	1	10	014010320	2,395
3.5	39	70	1	10	014010350	2,177
4	43	75	1	10	014010400	2,395
4.2	43	75	2	10	014010420	2,752
4.5	47	80	2	10	014010450	2,860
4.8	52	86	2	10	014010480	2,589
5	52	86	2	10	014010500	3,118
5.2	52	86	2	10	014010520	4,238
5.5	57	93	3	10	014010550	3,928
6	57	93	3	10	014010600	4,187
6.5	63	101	3	10	014010650	4,935
7	69	109	4	10	014010700	5,771
7.5	69	109	4	5	014010750	6,170
8	75	117	5	5	014010800	7,601
8.5	75	117	5	5	014010850	8,218
9	81	125	5	5	014010900	9,405
9.5	81	125	6	5	014010950	10,305
10	87	133	6	5	014011000	11,839
10.5	87	133	7	5	014011050	12,817
11	94	142	7	5	014011100	14,467
11.5	94	142	8	5	014011150	15,715
12	101	151	8	5	014011200	18,046
12.5	101	151	8	5	014011250	19,349
13	101	151	8	5	014011300	20,688



La speciale geometria della punta a gradino (ø ≥ 3 mm) permette di eseguire fori estremamente precisi nelle dimensioni e perfettamente circolari nella forma. Ideale per un utilizzo manuale in lavorazioni in cui è richiesta un'ottima precisione, in particolare su lamiere di ridotti spessori, profilati in alluminio, ecc.

PUNTE ELICOIDALI CILINDRICHE CON RIVESTIMENTO AL NITRURO DI TITANIO SUI TAGLIENTI E CON ANGOLO AL VERTICE DI 118°

TiN coated twist drills

01320 | **HSS-G** | **TiN** | **DIN 338 - 118° RIVESTITA SUI TAGLIENTI** *Titanium coated* | **Serie corta - 118°** *Short serie - 118°*



W 27°



HV 0,05 ≈ 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)



<5 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2	24	49	10	013200200	1,449
2,1	24	49	10	013200210	1,449
2,2	27	53	10	013200220	1,449
2,25	27	53	10	013200225	1,449
2,3	27	53	10	013200230	1,449
2,4	30	57	10	013200240	1,449
2,5	30	57	10	013200250	1,449
2,6	30	57	10	013200260	1,711
2,7	33	61	10	013200270	1,711
2,75	33	61	10	013200275	1,711
2,8	33	61	10	013200280	1,711
2,9	33	61	10	013200290	1,711
3	33	61	10	013200300	1,711
3,1	36	65	10	013200310	1,949
3,2	36	65	10	013200320	1,949
3,25	36	65	10	013200325	1,949
3,3	36	65	10	013200330	1,949
3,4	39	70	10	013200340	1,949
3,5	39	70	10	013200350	1,949
3,6	39	70	10	013200360	2,274
3,7	39	70	10	013200370	2,274
3,75	39	70	10	013200375	2,274
3,8	43	75	10	013200380	2,274
3,9	43	75	10	013200390	2,274
4	43	75	10	013200400	2,274
4,1	43	75	10	013200410	2,897
4,2	43	75	10	013200420	2,897
4,25	43	75	10	013200425	2,897
4,3	47	80	10	013200430	2,897
4,4	47	80	10	013200440	2,897
4,5	47	80	10	013200450	2,897
4,6	47	80	10	013200460	3,296
4,7	47	80	10	013200470	3,296
4,75	47	80	10	013200475	3,296
4,8	52	86	10	013200480	3,296
4,9	52	86	10	013200490	3,296
5	52	86	10	013200500	3,296
5,1	52	86	10	013200510	4,034
5,2	52	86	10	013200520	4,034
5,25	52	86	10	013200525	4,034
5,3	52	86	10	013200530	4,034
5,4	57	93	10	013200540	4,034
5,5	57	93	10	013200550	4,034
5,6	57	93	10	013200560	4,471
5,7	57	93	10	013200570	4,471
5,75	57	93	10	013200575	4,471
5,8	57	93	10	013200580	4,471
5,9	57	93	10	013200590	4,471
6	57	93	10	013200600	4,471
6,1	63	101	10	013200610	5,258
6,2	63	101	10	013200620	5,258
6,25	63	101	10	013200625	5,258
6,3	63	101	10	013200630	5,258
6,4	63	101	10	013200640	5,258
6,5	63	101	10	013200650	5,258
6,6	63	101	10	013200660	5,920
6,7	63	101	10	013200670	5,920
6,75	69	109	10	013200675	5,920
6,8	69	109	10	013200680	5,920
6,9	69	109	10	013200690	5,920
7	69	109	10	013200700	5,920
7,1	69	109	5	013200710	6,882
7,2	69	109	5	013200720	6,882

R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Rendimenti elevati e maggiore durata dei taglienti nella foratura degli acciai legati, nelle ghise e nei metalli in genere.

High level of performances in cutting alloy steel, cast iron, metals up to R ≤ 900 N/mm².

Serie corta - 118°
Short serie - 118°

Ø h8	l	L	pcs.	cod.	€ cad/each
7,25	69	109	5	013200725	**6,882**
7,3	69	109	5	013200730	**6,882**
7,4	69	109	5	013200740	**6,882**
7,5	69	109	5	013200750	**6,882**
7,6	75	117	5	013200760	**8,355**
7,7	75	117	5	013200770	**8,355**
7,75	75	117	5	013200775	**8,355**
7,8	75	117	5	013200780	**8,355**
7,9	75	117	5	013200790	**8,355**
8	75	117	5	013200800	**8,355**
8,1	75	117	5	013200810	**9,892**
8,2	75	117	5	013200820	**9,892**
8,25	75	117	5	013200825	**9,892**
8,3	75	117	5	013200830	**9,892**
8,4	75	117	5	013200840	**9,892**
8,5	75	117	5	013200850	**9,892**
8,6	81	125	5	013200860	**10,827**
8,7	81	125	5	013200870	**10,827**
8,75	81	125	5	013200875	**10,827**
8,8	81	125	5	013200880	**10,827**
8,9	81	125	5	013200890	**10,827**
9	81	125	5	013200900	**10,827**
9,1	81	125	5	013200910	**12,015**
9,2	81	125	5	013200920	**12,015**
9,25	81	125	5	013200925	**12,015**
9,3	81	125	5	013200930	**12,015**
9,4	81	125	5	013200940	**12,015**
9,5	81	125	5	013200950	**12,015**
9,6	87	133	5	013200960	**13,214**
9,7	87	133	5	013200970	**13,214**
9,75	87	133	5	013200975	**13,214**
9,8	87	133	5	013200980	**13,352**
9,9	87	133	5	013200990	**13,352**
10	87	133	5	013201000	**13,352**
10,1	87	133	5	013201010	**14,726**
10,2	87	133	5	013201020	**14,726**
10,25	87	133	5	013201025	**14,726**
10,3	87	133	5	013201030	**14,726**
10,4	87	133	5	013201040	**14,726**
10,5	87	133	5	013201050	**14,726**
10,6	87	133	5	013201060	**16,124**
10,7	94	142	5	013201070	**16,124**
10,75	94	142	5	013201075	**16,124**
10,8	94	142	5	013201080	**16,124**
10,9	94	142	5	013201090	**16,124**
11	94	142	5	013201100	**16,124**
11,1	94	142	5	013201110	**17,485**
11,2	94	142	5	013201120	**17,485**
11,25	94	142	5	013201125	**17,485**
11,3	94	142	5	013201130	**17,485**
11,4	94	142	5	013201140	**17,485**
11,5	94	142	5	013201150	**17,485**
11,6	94	142	5	013201160	**19,320**
11,7	94	142	5	013201170	**19,320**
11,75	94	142	5	013201175	**19,320**
11,8	94	142	5	013201180	**19,320**
11,9	101	151	5	013201190	**19,320**
12	101	151	5	013201200	**19,320**
12,1	101	151	5	013201210	**21,382**
12,2	101	151	5	013201220	**21,382**
12,25	101	151	5	013201225	**21,382**
12,3	101	151	5	013201230	**21,382**
12,4	101	151	5	013201240	**21,382**
12,5	101	151	5	013201250	**21,382**
12,6	101	151	5	013201260	**23,381**
12,7	101	151	5	013201270	**23,381**
12,75	101	151	5	013201275	**23,381**
12,8	101	151	5	013201280	**23,381**
12,9	101	151	5	013201290	**23,381**
13	101	151	5	013201300	**23,381**

Caratteristiche del rivestimento TiN
Features of TiN coating

Il rivestimento monostrato TiN ha lo scopo di incrementare la resistenza a fenomeni di usura e ossidazione cui gli utensili sono sottoposti durante le lavorazioni di foratura: ha ottime caratteristiche di microdurezza (HV 0.05 2300), un basso coefficiente di attrito (0.4), una temperatura massima di esercizio pari a 500°C. Il rivestimento di pochi µm, depositato per via fisica mediante vapore (Physical Vapour Deposition), consente pertanto di aumentare la vita utile degli utensili da taglio, migliorando anche la finitura superficiale ed il conseguente scorrimento dei trucioli di lavorazione.

TiN monolayer coating can increase both wear and oxidation resistance of every tool. It has high hardness (HV 0.05 2300), low friction coefficient (0.4), maximum working temperature 500°C. The coating thickness is very low (µm) and it's produced by Physical Vapour Deposition. TiN coating increases the life cycle of the tool, also improving the surface finishing and the drilling chips removal.

PUNTE ELICOIDALI CILINDRICHE
CON RIVESTIMENTO AL NITRURO DI TITANIO
TiN coated twist drills

01160 | **HSS-G** | **TiN** | **DIN 338 RETTIFICATA**
Titanium coated

Serie corta
Short serie

130° **W 27°**

HV 0,05 ≃ 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)

<5 d



Confezione
Packaging



R ≤ 900 N/mm²

Applicazioni
Applications

Inox
Stainless

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Art. 01161 Self
Disponibile su richiesta
On demand

Ø h8	l	L	pcs.	cod.	€ cad/each
1	12	34	10	011600100	**1,383**
1,1	14	36	10	011600110	**1,383**
1,2	16	38	10	011600120	**1,383**
1,25	16	38	10	011600125	**1,250**
1,3	16	38	10	011600130	**1,250**
1,4	18	40	10	011600140	**1,250**
1,5	18	40	10	011600150	**1,168**
1,6	20	43	10	011600160	**1,558**
1,7	20	43	10	011600170	**1,558**
1,75	22	46	10	011600175	**1,410**
1,8	22	46	10	011600180	**1,463**
1,9	22	46	10	011600190	**1,463**
2	24	49	10	011600200	**1,342**
2,1	24	49	10	011600210	**1,558**
2,2	27	53	10	011600220	**1,558**
2,25	27	53	10	011600225	**1,558**
2,3	27	53	10	011600230	**1,558**
2,4	30	57	10	011600240	**1,558**
2,5	30	57	10	011600250	**1,410**
2,6	30	57	10	011600260	**1,907**
2,7	33	61	10	011600270	**1,907**
2,75	33	61	10	011600275	**1,907**
2,8	33	61	10	011600280	**1,907**
2,9	33	61	10	011600290	**1,907**
3	33	61	10	011600300	**1,733**
3,1	36	65	10	011600310	**2,069**
3,2	36	65	10	011600320	**2,069**
3,25	36	65	10	011600325	**2,069**
3,3	36	65	10	011600330	**2,069**
3,4	39	70	10	011600340	**2,069**
3,5	39	70	10	011600350	**1,880**
3,6	39	70	10	011600360	**2,176**
3,7	39	70	10	011600370	**2,176**
3,75	39	70	10	011600375	**2,176**
3,8	43	75	10	011600380	**2,176**
3,9	43	75	10	011600390	**2,176**
4	43	75	10	011600400	**1,973**
4,1	43	75	10	011600410	**2,606**
4,2	43	75	10	011600420	**2,606**
4,25	43	75	10	011600425	**2,606**
4,3	47	80	10	011600430	**2,606**
4,4	47	80	10	011600440	**2,606**
4,5	47	80	10	011600450	**2,365**
4,6	47	80	10	011600460	**2,832**
4,7	47	80	10	011600470	**2,832**
4,75	47	80	10	011600475	**2,832**
4,8	52	86	10	011600480	**2,832**
4,9	52	86	10	011600490	**2,832**
5	52	86	10	011600500	**2,578**
5,1	52	86	10	011600510	**3,451**
5,2	52	86	10	011600520	**3,451**
5,25	52	86	10	011600525	**3,451**
5,3	52	86	10	011600530	**3,451**
5,4	57	93	10	011600540	**3,451**
5,5	57	93	10	011600550	**3,144**
5,6	57	93	10	011600560	**3,788**
5,7	57	93	10	011600570	**3,788**
5,75	57	93	10	011600575	**3,788**
5,8	57	93	10	011600580	**3,788**
5,9	57	93	10	011600590	**3,788**
6	57	93	10	011600600	**3,438**
6,1	63	101	10	011600610	**4,244**
6,2	63	101	10	011600620	**4,244**

Rendimenti elevati e maggiore durata dei taglienti nella foratura degli acciai legati, nelle ghise e nei metalli in genere.

High level of performances in cutting alloy steel, cast iron, metals up to R ≤ 900 N/mm².

Serie corta
Short serie

Ø h8	l	L	pcs.	cod.	€ cad/each
6,25	63	101	10	011600625	**4,244**
6,3	63	101	10	011600630	**4,244**
6,4	63	101	10	011600640	**4,244**
6,5	63	101	10	011600650	**3,854**
6,6	63	101	10	011600660	**4,728**
6,7	63	101	10	011600670	**4,728**
6,75	69	109	10	011600675	**4,728**
6,8	69	109	10	011600680	**4,728**
6,9	69	109	10	011600690	**4,728**
7	69	109	10	011600700	**4,284**
7,1	69	109	5	011600710	**5,856**
7,2	69	109	5	011600720	**5,856**
7,25	69	109	5	011600725	**5,856**
7,3	69	109	5	011600730	**5,856**
7,4	69	109	5	011600740	**5,856**
7,5	69	109	5	011600750	**5,319**
7,6	75	117	5	011600760	**6,810**
7,7	75	117	5	011600770	**6,810**
7,75	75	117	5	011600775	**6,810**
7,8	75	117	5	011600780	**6,810**
7,9	75	117	5	011600790	**6,810**
8	75	117	5	011600800	**6,190**
8,1	75	117	5	011600810	**8,273**
8,2	75	117	5	011600820	**8,273**
8,25	75	117	5	011600825	**8,273**
8,3	75	117	5	011600830	**8,273**
8,4	75	117	5	011600840	**8,273**
8,5	75	117	5	011600850	**7,507**
8,6	81	125	5	011600860	**8,971**
8,7	81	125	5	011600870	**8,971**
8,75	81	125	5	011600875	**8,971**
8,8	81	125	5	011600880	**8,971**
8,9	81	125	5	011600890	**8,971**
9	81	125	5	011600900	**8,165**
9,1	81	125	5	011600910	**10,139**
9,2	81	125	5	011600920	**10,139**
9,25	81	125	5	011600925	**10,139**
9,3	81	125	5	011600930	**10,139**
9,4	81	125	5	011600940	**10,139**
9,5	81	125	5	011600950	**9,224**
9,6	87	133	5	011600960	**10,555**
9,7	87	133	5	011600970	**10,555**
9,75	87	133	5	011600975	**10,555**
9,8	87	133	5	011600980	**10,555**
9,9	87	133	5	011600990	**10,555**
10	87	133	5	011601000	**9,602**
10,25	87	133	5	011601025	**11,805**
10,5	87	133	5	011601050	**10,731**
10,75	94	142	5	011601075	**12,758**
11	94	142	5	011601100	**11,590**
11,25	94	142	5	011601125	**13,886**
11,5	94	142	5	011601150	**12,625**
11,75	94	142	5	011601175	**14,652**
12	101	151	5	011601200	**15,043**
12,25	101	151	5	011601225	**16,047**
12,5	101	151	5	011601250	**16,384**
12,75	101	151	5	011601275	**17,847**
13	101	151	5	011601300	**17,325**
13,5	108	160	3	011601350	**25,969**
14	108	160	3	011601400	**27,985**
14,5	114	169	3	011601450	**31,020**
15	114	169	3	011601500	**33,357**
15,5	120	178	3	011601550	**36,860**
16	120	178	3	011601600	**39,141**
16,5	125	184	1	011601650	**42,608**
17	125	184	1	011601700	**45,222**
17,5	130	191	1	011601750	**49,133**
18	130	191	1	011601800	**51,962**
18,5	135	198	1	011601850	**56,186**
19	135	198	1	011601900	**59,339**
19,5	140	205	1	011601950	**61,247**
20	140	205	1	011602000	**64,079**

Caratteristiche del rivestimento TiN
Features of TiN coating

Il rivestimento monostrato TiN ha lo scopo di incrementare la resistenza a fenomeni di usura e ossidazione cui gli utensili sono sottoposti durante le lavorazioni di foratura: ha ottime caratteristiche di microdurezza (HV 0.05 2300), un basso coefficiente di attrito (0.4), una temperatura massima di esercizio pari a 500°C. Il rivestimento di pochi µm, depositato per via fisica mediante vapore (Physical Vapour Deposition), consente pertanto di aumentare la vita utile degli utensili da taglio, migliorando anche la finitura superficiale ed il conseguente scorrimento dei trucioli di lavorazione.

TiN monolayer coating can increase both wear and oxidation resistance of every tool. It has high hardness (HV 0.05 2300), low friction coefficient (0.4), maximum working temperature 500°C. The coating thickness is very low (µm) and it's produced by Physical Vapour Deposition. TiN coating increases the life cycle of the tool, also improving the surface finishing and the drilling chips removal.

PUNTE ELICOIDALI CILINDRICHE
CON CODOLO RIDOTTO RIVESTITE AL NITRURO DI TITANIO
Reduced shank TiN coated twist drills

01163 | HSS-G | TiN | DIN 338 RETTIFICATA

Titanium coated

Codolo ridotto - 10mm
Reduced shank - 10mm

130° W 27°

HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)

<5 d

d
d=10 mm



Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	011631025	14,411
10,5	87	133	10	5	011631050	13,309
10,75	94	142	10	5	011631075	15,362
11	94	142	10	5	011631100	14,168
11,25	94	142	10	5	011631125	16,477
11,5	94	142	10	5	011631150	15,188
11,75	94	142	10	5	011631175	17,176
12	101	151	10	5	011631200	17,457
12,25	101	151	10	5	011631225	19,742
12,5	101	151	10	5	011631250	20,279
12,75	101	151	10	5	011631275	20,817
13	101	151	10	5	011631300	20,413
13,5	108	160	10	3	011631350	32,579
14	108	160	10	3	011631400	34,836
14,5	114	169	10	3	011631450	38,233
15	114	169	10	3	011631500	40,852
15,5	120	178	10	3	011631550	44,774
16	120	178	10	3	011631600	47,324
16,5	125	184	10	1	011631650	51,206
17	125	184	10	1	011631700	54,135
17,5	130	191	10	1	011631750	58,512
18	130	191	10	1	011631800	61,667
18,5	135	198	10	1	011631850	66,409
19	135	198	10	1	011631900	69,941
19,5	140	205	10	1	011631950	72,074
20	140	205	10	1	011632000	75,245

Applicazioni
Applications

Inox *Stainless*
Metalli *Metals*
Acciaio *Steel*
Emulsione *Lubrificant*

01164 | HSS-G | TiN | DIN 338 RETTIFICATA

Titanium coated

Codolo ridotto - 13mm
Reduced shank - 13mm

130° W 27°

HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)

<5 d

d
d=13 mm



Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,5	108	160	13	3	011641350	32,579
14	108	160	13	3	011641400	34,836
14,5	114	169	13	3	011641450	38,233
15	114	169	13	3	011641500	40,852
15,5	120	178	13	3	011641550	44,774
16	120	178	13	3	011641600	47,324
16,5	125	184	13	1	011641650	51,206
17	125	184	13	1	011641700	54,135
17,5	130	191	13	1	011641750	58,512
18	130	191	13	1	011641800	61,667
18,5	135	198	13	1	011641850	66,409
19	135	198	13	1	011641900	69,941
19,5	140	205	13	1	011641950	72,074
20	140	205	13	1	011642000	75,245

Applicazioni
Applications

Inox *Stainless*
Metalli *Metals*
Acciaio *Steel*
Emulsione *Lubrificant*

PUNTE ELICOIDALI CILINDRICHE RIVESTITE AL NITRURO DI TITANIO, SERIE EXTRA CORTA

HSS-G TiN coated twist drills, stub serie

01166 | **HSS-G** | **TiN** | **DIN 1897 RETTIFICATA**

Titanium coated

Serie extra corta

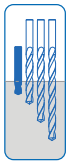
Extra short serie



W 27°



HV 0,05 ≈ 2500
SPLIT POINT
DIN 1412C
(Ø≥3 mm)



<3 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	46	10	011660300	**1,733**
3,25	18	49	10	011660325	**2,069**
3,50	20	52	10	011660350	**1,880**
3,75	20	52	10	011660375	**2,176**
4	22	55	10	011660400	**1,973**
4,50	24	58	10	011660450	**2,365**
5	26	62	10	011660500	**2,578**
5,5	28	66	10	011660550	**3,144**
6	28	66	10	011660600	**3,339**
6,5	28	66	10	011660650	**5,680**



Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE RIVESTITE AL NITRURO DI TITANIO, SERIE LUNGA

HSS-G TiN coated twist drills, long serie

01168 **HSS-G** **TiN** **DIN 340** **RETTIFICATA**

Serie lunga
Long serie



W 27°



HV 0,05 = 2500
SPLIT POINT
DIN 1412C
(Ø≥3 mm)



<8 d

R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless



Metalli
Metals



Acciaio
Steel



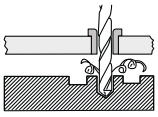
Emulsione
Lubrificant



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	66	100	10	011680300	**3,303**
3,25	69	106	10	011680325	**3,479**
3,5	73	112	10	011680350	**3,479**
3,75	73	112	10	011680375	**3,867**
4	78	119	10	011680400	**3,867**
4,25	78	119	10	011680425	**4,445**
4,5	82	126	10	011680450	**4,445**
4,75	82	126	10	011680475	**5,009**
5	87	132	10	011680500	**5,009**
5,25	87	132	10	011680525	**5,856**
5,5	91	139	10	011680550	**5,856**
5,75	91	139	10	011680575	**6,447**
6	91	139	10	011680600	**6,447**
6,5	97	148	5	011680650	**6,782**
7	102	156	5	011680700	**8,729**
7,5	102	156	5	011680750	**10,474**
8	109	165	5	011680800	**12,758**
8,5	109	165	5	011680850	**14,948**
9	115	175	5	011680900	**16,384**
9,5	115	175	5	011680950	**17,996**
10	121	184	5	011681000	**20,951**



PUNTE ELICOIDALI CILINDRICHE RIVESTITE AL NITRURO DI TITANIO, SERIE CORTA, IN POLLICI
TiN coated twist drills

01162 | **HSS-G** | **TiN** | **ANSI B94 RETTIFICATA**
Ground from the solid

Serie corta - Pollici
Short serie - Inches



W 27°



HV 0,05 ≈ 2500
SPLIT POINT
DIN 1412 C


<5 d



Confezione
Packaging



Ø inch	Ø mm	l inch	L inch	pcs.	cod.	€ cad/each
1/16	1,59	7/8	1-7/8	10	0116214	**1,088**
5/64	1,98	1”	2”	10	0116215	**1,196**
3/32	2,38	1-1/4	2-1/4	10	0116216	**1,437**
7/64	2,78	1-1/2	2-5/8	10	0116217	**1,786**
1/8	3,17	1-5/8	2-3/4	10	0116218	**1,894**
9/64	3,57	1-3/4	2-7/8	10	0116219	**2,109**
5/32	3,97	2”	3-1/8	10	0116220	**2,242**
11/64	4,37	2-1/8	3-1/4	10	0116221	**2,445**
3/16	4,76	2-5/16	3-1/2	10	0116222	**2,753**
13/64	5,16	2-7/16	3-5/8	10	0116223	**3,183**
7/32	5,56	2-1/2	3-3/4	10	0116224	**3,504**
15/64	5,95	2-5/8	3-7/8	10	0116225	**3,693**
1/4	6,35	2-3/4	4”	10	0116226	**3,949**
17/64	6,75	2-7/8	4-1/8	10	0116227	**4,434**
9/32	7,14	2-15/16	4-1/4	5	0116228	**5,117**
19/64	7,54	3-1/16	4-3/8	5	0116229	**5,452**
5/16	7,94	3-3/16	4-1/2	5	0116230	**5,936**
21/64	8,33	3-5/16	4-5/8	5	0116231	**8,030**
11/32	8,73	3-7/16	4-3/4	5	0116232	**8,406**
23/64	9,13	3-1/2	4-7/8	5	0116233	**8,944**
3/8	9,52	3-5/8	5”	5	0116234	**9,158**
25/64	9,92	3-3/4	5-1/8	5	0116235	**9,470**
13/32	10,32	3-7/8	5-1/4	5	0116236	**10,192**
27/64	10,72	3-15/16	5-3/8	5	0116237	**10,381**
7/16	11,11	4-1/16	5-1/2	5	0116238	**11,978**
29/64	11,51	4-3/16	5-5/8	5	0116239	**12,355**
15/32	11,91	4-5/16	5-3/4	5	0116240	**12,933**
31/64	12,30	4-7/16	5-7/8	5	0116241	**13,940**
1/2	12,70	4-1/2	6”	5	0116242	**15,430**

R ≤ 900 N/mm²

Applicazioni
Applications



Inox
Stainless


Metalli
Metals


Acciaio
Steel


Emulsione
Lubrificant

Rendimenti elevati e maggiore durata dei taglienti nella foratura degli acciai legati, nelle ghise e nei metalli in genere con R ≤ 900 N/mm².

High level of performances in cutting alloy steel, cast iron, metals up to R ≤ 900 N/mm².

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA, "DUAL PERFORMER®"

Fully ground straight shank twist drills "Dual Performer®"

Dual Performer

01201 HSS-G DIN 338 RETTIFICATA

Ground from the solid

Serie corta
Short serie

130° W 27°

HV 0,05 = 2500
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

<5 d



Confezione
Packaging



R ≤ 850 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

Taglio dei materiali con R ≤ 850 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite.
Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 850 N/mm².

Ø h8	l	L	pcs.	cod.	€ cad/each
0,3	3	19	10	012010030	2,959
0,35	4	19	10	012010035	2,959
0,4	5	20	10	012010040	2,959
0,45	5	20	10	012010045	2,959
0,5	6	22	10	012010050	2,959
0,55	7	24	10	012010055	2,959
0,6	7	24	10	012010060	2,959
0,65	8	26	10	012010065	2,959
0,7	9	28	10	012010070	2,959
0,75	9	28	10	012010075	2,959
0,8	10	30	10	012010080	2,959
0,85	10	30	10	012010085	2,959
0,9	11	32	10	012010090	2,959
0,95	11	32	10	012010095	2,959
1	12	34	10	012010100	1,652
1,1	14	36	10	012010110	1,746
1,2	16	38	10	012010120	1,746
1,25	16	38	10	012010125	1,746
1,3	16	38	10	012010130	1,746
1,4	18	40	10	012010140	1,746
1,5	18	40	10	012010150	1,531
1,6	20	43	10	012010160	1,424
1,7	20	43	10	012010170	1,424
1,75	22	46	10	012010175	1,424
1,8	22	46	10	012010180	1,424
1,9	22	46	10	012010190	1,424
2	24	49	10	012010200	1,262
2,1	24	49	10	012010210	1,520
2,2	27	53	10	012010220	1,520
2,25	27	53	10	012010225	1,520
2,3	27	53	10	012010230	1,520
2,4	30	57	10	012010240	1,520
2,5	30	57	10	012010250	1,383
2,6	30	57	10	012010260	1,786
2,7	33	61	10	012010270	1,786
2,75	33	61	10	012010275	1,786
2,8	33	61	10	012010280	1,786
2,9	33	61	10	012010290	1,786
3	33	61	10	012010300	1,624
3,1	36	65	10	012010310	2,015
3,2	36	65	10	012010320	2,015
3,25	36	65	10	012010325	2,015
3,3	36	65	10	012010330	2,015
3,4	39	70	10	012010340	2,015
3,5	39	70	10	012010350	1,827
3,6	39	70	10	012010360	2,096
3,7	39	70	10	012010370	2,096
3,75	39	70	10	012010375	2,096
3,8	43	75	10	012010380	2,096
3,9	43	75	10	012010390	2,096
4	43	75	10	012010400	1,921
4,1	43	75	10	012010410	2,458
4,2	43	75	10	012010420	2,458
4,25	43	75	10	012010425	2,458
4,3	47	80	10	012010430	2,458
4,4	47	80	10	012010440	2,458
4,5	47	80	10	012010450	2,336
4,6	47	80	10	012010460	2,606
4,7	47	80	10	012010470	2,606
4,75	47	80	10	012010475	2,606
4,8	52	86	10	012010480	2,606
4,9	52	86	10	012010490	2,606
5	52	86	10	012010500	2,445

Serie corta
Short serie

Ø h8	l	L	pcs.	cod.	€ cad/each
5,1	52	86	10	012010510	3,332
5,2	52	86	10	012010520	3,332
5,25	52	86	10	012010525	3,332
5,3	52	86	10	012010530	3,332
5,4	57	93	10	012010540	3,332
5,5	57	93	10	012010550	3,196
5,6	57	93	10	012010560	3,693
5,7	57	93	10	012010570	3,693
5,75	57	93	10	012010575	3,693
5,8	57	93	10	012010580	3,693
5,9	57	93	10	012010590	3,693
6	57	93	10	012010600	3,491
6,1	63	101	10	012010610	4,607
6,2	63	101	10	012010620	4,607
6,25	63	101	10	012010625	4,607
6,3	63	101	10	012010630	4,607
6,4	63	101	10	012010640	4,607
6,5	63	101	10	012010650	4,244
6,6	63	101	10	012010660	5,359
6,7	63	101	10	012010670	5,359
6,75	69	109	10	012010675	5,359
6,8	69	109	10	012010680	5,359
6,9	69	109	10	012010690	5,359
7	69	109	10	012010700	4,968
7,1	69	109	5	012010710	5,881
7,2	69	109	5	012010720	5,881
7,25	69	109	5	012010725	5,881
7,3	69	109	5	012010730	5,881
7,4	69	109	5	012010740	5,881
7,5	69	109	5	012010750	5,264
7,6	75	117	5	012010760	6,621
7,7	75	117	5	012010770	6,621
7,75	75	117	5	012010775	6,621
7,8	75	117	5	012010780	6,621
7,9	75	117	5	012010790	6,621
8	75	117	5	012010800	6,246
8,1	75	117	5	012010810	8,514
8,2	75	117	5	012010820	8,514
8,25	75	117	5	012010825	8,514
8,3	75	117	5	012010830	8,514
8,4	75	117	5	012010840	8,514
8,5	75	117	5	012010850	8,111
8,6	81	125	5	012010860	8,717
8,7	81	125	5	012010870	8,717
8,75	81	125	5	012010875	8,717
8,8	81	125	5	012010880	8,717
8,9	81	125	5	012010890	8,717
9	81	125	5	012010900	8,313
9,1	81	125	5	012010910	9,750
9,2	81	125	5	012010920	9,750
9,25	81	125	5	012010925	9,750
9,3	81	125	5	012010930	9,750
9,4	81	125	5	012010940	9,750
9,5	81	125	5	012010950	9,280
9,6	87	133	5	012010960	10,018
9,7	87	133	5	012010970	10,018
9,75	87	133	5	012010975	10,018
9,8	87	133	5	012010980	10,018
9,9	87	133	5	012010990	10,018
10	87	133	5	012011000	9,548
10,25	87	133	5	012011025	12,891
10,5	87	133	5	012011050	11,281
10,75	94	142	5	012011075	15,510
11	94	142	5	012011100	13,523
11,25	94	142	5	012011125	16,491
11,5	94	142	5	012011150	14,423
11,75	94	142	5	012011175	17,941
12	101	151	5	012011200	15,550
12,25	101	151	5	012011225	19,540
12,5	101	151	5	012011250	17,002
12,75	101	151	5	012011275	22,131
13	101	151	5	012011300	17,941
13,25	108	160	3	012011325	27,168
13,5	108	160	3	012011350	24,670
13,75	108	160	3	012011375	27,987
14	108	160	3	012011400	25,449
14,25	114	169	3	012011425	31,963
14,5	114	169	3	012011450	29,034
14,75	114	169	3	012011475	37,521
15	114	169	3	012011500	34,111
15,25	120	178	3	012011525	41,066
15,5	120	178	3	012011550	37,321
15,75	120	178	3	012011575	42,545
16	120	178	3	012011600	38,665
16,5	125	184	1	012011650	40,006
17	125	184	1	012011700	41,966
17,5	130	191	1	012011750	43,981
18	130	191	1	012011800	46,748
18,5	135	198	1	012011850	50,884
19	135	198	1	012011900	52,550
19,5	140	205	1	012011950	55,047
20	140	205	1	012012000	57,679

PUNTE ELICOIDALI CILINDRICHE RETTIFICATE CON CODOLO RIDOTTO "DUAL PERFORMER®"

Fully ground straight shank twist drills "Dual Performer®"

Dual Performer

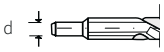
01203 HSS-G DIN 338 RETTIFICATA

Ground from the solid

Codolo ridotto - 10mm

Reduced shank - 10mm





d=10 mm

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*

Metalli *Metals*

Acciaio *Steel*

Emulsione *Lubrificant*



Confezione
Packaging



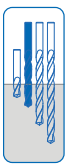
Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	012031025	15,483
10,5	87	133	10	5	012031050	13,858
10,75	94	142	10	5	012031075	18,089
11	94	142	10	5	012031100	16,088
11,25	94	142	10	5	012031125	19,070
11,5	94	142	10	5	012031150	17,014
11,75	94	142	10	5	012031175	20,506
12	101	151	10	5	012031200	18,142
12,25	101	151	10	5	012031225	22,104
12,5	101	151	10	5	012031250	19,553
12,75	101	151	10	5	012031275	24,722
13	101	151	10	5	012031300	20,506
13,25	108	160	10	3	012031325	31,224
13,5	108	160	10	3	012031350	28,390
13,75	108	160	10	3	012031375	32,203
14	108	160	10	3	012031400	29,263
14,25	114	169	10	3	012031425	36,729
14,5	114	169	10	3	012031450	33,398
14,75	114	169	10	3	012031475	43,150
15	114	169	10	3	012031500	39,227
15,25	120	178	10	3	012031525	47,218
15,5	120	178	10	3	012031550	42,921
15,75	120	178	10	3	012031575	48,923
16	120	178	10	3	012031600	44,465
16,5	125	184	10	1	012031650	45,996
17	125	184	10	1	012031700	48,253
17,5	130	191	10	1	012031750	50,588
18	130	191	10	1	012031800	53,758
18,5	135	198	10	1	012031850	58,512
19	135	198	10	1	012031900	60,432
19,5	140	205	10	1	012031950	63,319
20	140	205	10	1	012032000	66,341

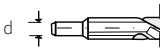
01209 HSS-G DIN 338 RETTIFICATA

Ground from the solid

Codolo ridotto - 13mm

Reduced shank - 13mm





d=13 mm

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*

Metalli *Metals*

Acciaio *Steel*

Emulsione *Lubrificant*



Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	012091325	31,224
13,5	108	160	13	3	012091350	28,390
13,75	108	160	13	3	012091375	32,203
14	108	160	13	3	012091400	29,263
14,25	114	169	13	3	012091425	36,729
14,5	114	169	13	3	012091450	33,398
14,75	114	169	13	3	012091475	43,150
15	114	169	13	3	012091500	39,227
15,25	120	178	13	3	012091525	47,218
15,5	120	178	13	3	012091550	42,921
15,75	120	178	13	3	012091575	48,923
16	120	178	13	3	012091600	44,465
16,5	125	184	13	1	012091650	45,996
17	125	184	13	1	012091700	48,253
17,5	130	191	13	1	012091750	50,588
18	130	191	13	1	012091800	53,758
18,5	135	198	13	1	012091850	58,512
19	135	198	13	1	012091900	60,432
19,5	140	205	13	1	012091950	63,319
20	140	205	13	1	012092000	66,341

01207 HSS-G DIN 1897 RETTIFICATA

Ground from the solid

Serie extra corta
Extra short serie

130° W 27°

HV ≈ 820
SPLIT POINT
DIN 1412C

<3 d

R ≤ 850 N/mm²



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	46	10	012070300	1,840
3,25	18	49	10	012070325	1,934
3,5	20	52	10	012070350	1,934
3,75	20	52	10	012070375	1,934
4	22	55	10	012070400	1,934
4,25	22	55	10	012070425	2,445
4,5	24	58	10	012070450	2,445
4,75	24	58	10	012070475	2,592
5	26	62	10	012070500	2,592
5,25	26	62	10	012070525	3,237
5,5	28	66	10	012070550	3,237
5,75	28	66	10	012070575	3,572
6	28	66	10	012070600	3,572



Applicazioni
Applications

Inox *Stainless*
Metalli *Metals*
Acciaio *Steel*
Emulsione *Lubrificant*

01208 HSS-G DIN 340 RETTIFICATA

Ground from the solid

Serie lunga
Long serie

130° W 27°

HV ≈ 820
SPLIT POINT
DIN 1412C

<8 d

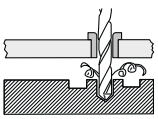
R ≤ 850 N/mm²



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	66	100	10	012080300	3,559
3,25	69	106	10	012080325	3,707
3,5	73	112	10	012080350	3,707
3,75	73	112	10	012080375	3,707
4	78	119	10	012080400	3,707
4,25	78	119	10	012080425	4,713
4,5	82	126	10	012080450	4,713
4,75	82	126	10	012080475	5,089
5	87	132	10	012080500	5,089
5,25	87	132	10	012080525	6,231
5,5	91	139	10	012080550	6,231
5,75	91	139	10	012080575	6,875
6	91	139	10	012080600	6,875
6,5	97	148	5	012080650	8,514
7	102	156	5	012080700	9,333
7,5	102	156	5	012080750	10,139
8	109	165	5	012080800	12,758
8,5	109	165	5	012080850	16,371
9	115	175	5	012080900	16,371
9,5	115	175	5	012080950	18,292
10	121	184	5	012081000	20,116



Applicazioni
Applications

Inox *Stainless*
Metalli *Metals*
Acciaio *Steel*
Emulsione *Lubrificant*

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA
Fully ground straight shank twist drills

01060 | **HSS-G** | **DIN 338 RETTIFICATA**
Ground from the solid

Serie corta
Short serie

130° W 27°

HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥2,5)

<5 d

R ≤ 800 N/mm²

Applicazioni
Applications

- Acciaio *Steel*
- Metalli *Metals*
- Emulsione *Lubrificant*



Confezione
Packaging



MICRO DRILLS

Ø h8	l	L	pcs.	cod.	€ cad/each
0,2	2,5	19	10	010600020	2,871
0,21	2,5	19	10	010600021	2,871
0,22	2,5	19	10	010600022	2,871
0,23	2,5	19	10	010600023	2,871
0,24	2,5	19	10	010600024	2,871
0,25	3	19	10	010600025	2,871
0,26	3	19	10	010600026	2,871
0,27	3	19	10	010600027	2,871
0,28	3	19	10	010600028	2,871
0,29	3	19	10	010600029	2,871
0,3	3	19	10	010600030	2,871
0,35	4	19	10	010600035	2,605
0,4	5	20	10	010600040	2,471
0,45	5	20	10	010600045	2,471
0,5	6	22	10	010600050	2,126
0,55	7	24	10	010600055	2,471
0,6	7	24	10	010600060	1,952
0,65	8	26	10	010600065	2,126
0,7	9	28	10	010600070	1,820
0,75	9	28	10	010600075	1,820
0,8	10	30	10	010600080	1,820
0,85	10	30	10	010600085	1,820
0,9	11	32	10	010600090	1,700
0,95	11	32	10	010600095	1,820
1	12	34	10	010600100	1,382
1,1	14	36	10	010600110	1,448
1,2	16	38	10	010600120	1,448
1,25	16	38	10	010600125	1,448
1,3	16	38	10	010600130	1,448
1,4	18	40	10	010600140	1,448
1,5	18	40	10	010600150	1,249
1,6	20	43	10	010600160	1,182
1,7	20	43	10	010600170	1,182
1,75	22	46	10	010600175	1,182
1,8	22	46	10	010600180	1,182
1,9	22	46	10	010600190	1,182
2	24	49	10	010600200	1,036
2,1	24	49	10	010600210	1,249
2,2	27	53	10	010600220	1,249
2,25	27	53	10	010600225	1,249
2,3	27	53	10	010600230	1,249
2,4	30	57	10	010600240	1,249
2,5	30	57	10	010600250	1,144
2,6	30	57	10	010600260	1,436
2,7	33	61	10	010600270	1,436
2,75	33	61	10	010600275	1,436
2,8	33	61	10	010600280	1,436
2,9	33	61	10	010600290	1,436
3	33	61	10	010600300	1,301
3,1	36	65	10	010600310	1,541
3,2	36	65	10	010600320	1,541
3,25	36	65	10	010600325	1,541
3,3	36	65	10	010600330	1,541
3,4	39	70	10	010600340	1,541
3,5	39	70	10	010600350	1,448
3,6	39	70	10	010600360	1,688
3,7	39	70	10	010600370	1,688
3,75	39	70	10	010600375	1,688
3,8	43	75	10	010600380	1,688
3,9	43	75	10	010600390	1,688
4	43	75	10	010600400	1,581
4,1	43	75	10	010600410	2,088
4,2	43	75	10	010600420	2,088
4,25	43	75	10	010600425	2,088
4,3	47	80	10	010600430	2,088
4,4	47	80	10	010600440	2,088
4,5	47	80	10	010600450	1,900
4,6	47	80	10	010600460	2,139
4,7	47	80	10	010600470	2,139
4,75	47	80	10	010600475	2,139
4,8	52	86	10	010600480	2,139
4,9	52	86	10	010600490	2,139
5	52	86	10	010600500	1,968
5,1	52	86	10	010600510	2,737
5,2	52	86	10	010600520	2,737
5,25	52	86	10	010600525	2,737
5,3	52	86	10	010600530	2,737
5,4	57	93	10	010600540	2,737
5,5	57	93	10	010600550	2,631
5,6	57	93	10	010600560	3,043
5,7	57	93	10	010600570	3,043
5,75	57	93	10	010600575	3,043
5,8	57	93	10	010600580	3,043
5,9	57	93	10	010600590	3,043
6	57	93	10	010600600	2,737
6,1	63	101	10	010600610	3,800
6,2	63	101	10	010600620	3,800
6,25	63	101	10	010600625	3,800
6,3	63	101	10	010600630	3,800
6,4	63	101	10	010600640	3,800
6,5	63	101	10	010600650	3,507
6,6	63	101	10	010600660	4,426
6,7	63	101	10	010600670	4,426
6,75	69	109	10	010600675	4,426
6,8	69	109	10	010600680	4,426
6,9	69	109	10	010600690	4,426
7	69	109	10	010600700	4,094
7,1	69	109	5	010600710	4,864
7,2	69	109	5	010600720	4,864
7,25	69	109	5	010600725	4,864
7,3	69	109	5	010600730	4,864
7,4	69	109	5	010600740	4,864
7,5	69	109	5	010600750	4,332
7,6	75	117	5	010600760	5,461
7,7	75	117	5	010600770	5,461
7,75	75	117	5	010600775	5,461
7,8	75	117	5	010600780	5,461
7,9	75	117	5	010600790	5,461
8	75	117	5	010600800	5,156
8,1	75	117	5	010600810	6,711
8,2	75	117	5	010600820	6,711
8,25	75	117	5	010600825	6,711
8,3	75	117	5	010600830	6,711
8,4	75	117	5	010600840	6,711
8,5	75	117	5	010600850	6,366
8,6	81	125	5	010600860	6,962
8,7	81	125	5	010600870	6,962
8,75	81	125	5	010600875	6,962
8,8	81	125	5	010600880	6,962
8,9	81	125	5	010600890	6,962
9	81	125	5	010600900	6,672
9,1	81	125	5	010600910	7,881
9,2	81	125	5	010600920	7,881
9,25	81	125	5	010600925	7,881
9,3	81	125	5	010600930	7,881
9,4	81	125	5	010600940	7,881

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².

Ø h8	l	L	pcs.	cod.	€ cad/each
9,5	81	125	5	010600950	**7,175**
9,6	87	133	5	010600960	**8,346**
9,7	87	133	5	010600970	**8,346**
9,75	87	133	5	010600975	**8,346**
9,8	87	133	5	010600980	**8,346**
9,9	87	133	5	010600990	**8,346**
10	87	133	5	010601000	**7,508**
10,1	87	133	5	010601010	**10,670**
10,2	87	133	5	010601020	**10,670**
10,25	87	133	5	010601025	**10,670**
10,3	87	133	5	010601030	**10,670**
10,4	87	133	5	010601040	**10,670**
10,5	87	133	5	010601050	**9,314**
10,6	87	133	5	010601060	**12,785**
10,7	94	142	5	010601070	**12,785**
10,75	94	142	5	010601075	**12,785**
10,8	94	142	5	010601080	**12,785**
10,9	94	142	5	010601090	**12,785**
11	94	142	5	010601100	**11,150**
11,1	94	142	5	010601110	**13,580**
11,2	94	142	5	010601120	**13,580**
11,25	94	142	5	010601125	**13,580**
11,3	94	142	5	010601130	**13,580**
11,4	94	142	5	010601140	**13,580**
11,5	94	142	5	010601150	**11,894**
11,6	94	142	5	010601160	**14,816**
11,7	94	142	5	010601170	**14,816**
11,75	94	142	5	010601175	**14,816**
11,8	94	142	5	010601180	**14,816**
11,9	101	151	5	010601190	**14,816**
12	101	151	5	010601200	**12,836**
12,1	101	151	5	010601210	**16,145**
12,2	101	151	5	010601220	**16,145**
12,25	101	151	5	010601225	**16,145**
12,3	101	151	5	010601230	**16,145**
12,4	101	151	5	010601240	**16,145**
12,5	101	151	5	010601250	**14,004**
12,6	101	151	5	010601260	**18,258**
12,7	101	151	5	010601270	**18,258**
12,75	101	151	5	010601275	**18,258**
12,8	101	151	5	010601280	**18,258**
12,9	101	151	5	010601290	**18,258**
13	101	151	5	010601300	**15,109**
13,1	101	151	3	010601310	**21,408**
13,2	101	151	3	010601320	**21,408**
13,25	108	160	3	010601325	**21,408**
13,3	108	160	3	010601330	**21,408**
13,4	108	160	3	010601340	**21,408**
13,5	108	160	3	010601350	**19,228**
13,6	108	160	3	010601360	**21,408**
13,7	108	160	3	010601370	**21,408**
13,75	108	160	3	010601375	**21,408**
13,8	108	160	3	010601380	**21,408**
13,9	108	160	3	010601390	**21,408**
14	108	160	3	010601400	**19,759**
14,1	108	160	3	010601410	**25,702**
14,2	114	169	3	010601420	**25,702**
14,25	114	169	3	010601425	**25,702**
14,3	114	169	3	010601430	**25,702**
14,4	114	169	3	010601440	**25,702**
14,5	114	169	3	010601450	**21,914**
14,6	114	169	3	010601460	**25,702**
14,7	114	169	3	010601470	**25,702**
14,75	114	169	3	010601475	**25,702**
14,8	114	169	3	010601480	**25,702**
14,9	114	169	3	010601490	**25,702**
15	114	169	3	010601500	**23,415**
15,1	120	178	3	010601510	**29,262**
15,2	120	178	3	010601520	**29,262**
15,25	120	178	3	010601525	**29,262**
15,3	120	178	3	010601530	**29,262**
15,4	120	178	3	010601540	**29,262**
15,5	120	178	3	010601550	**27,480**
15,6	120	178	3	010601560	**29,262**
15,7	120	178	3	010601570	**29,262**
15,75	120	178	3	010601575	**29,262**
15,8	120	178	3	010601580	**29,262**
15,9	120	178	3	010601590	**29,262**
16	120	178	3	010601600	**29,037**
16,25	125	184	1	010601625	**29,262**
16,5	125	184	1	010601650	**29,262**
16,75	125	184	1	010601675	**31,096**
17	125	184	1	010601700	**31,096**
17,25	130	191	1	010601725	**31,096**
17,5	130	191	1	010601750	**32,797**
17,75	130	191	1	010601775	**32,797**
18	130	191	1	010601800	**35,335**
18,25	135	198	1	010601825	**35,335**
18,5	135	198	1	010601850	**38,948**
18,75	135	198	1	010601875	**38,948**
19	135	198	1	010601900	**40,369**
19,25	140	205	1	010601925	**43,542**
19,5	140	205	1	010601950	**45,581**
19,75	140	205	1	010601975	**45,581**
20	140	205	1	010602000	**45,581**

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO, INTERAMENTE RETTIFICATE
Reduced shank twist drills

01062 **HSS-G** **DIN 338 RETTIFICATA**
Ground from the solid

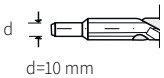
Codolo ridotto - 10mm
Reduced shank - 10mm



Confezione
Packaging







R ≤ 800 N/mm²

Applicazioni
Applications


Acciaio
Steel


Metalli
Metals


Emulsione
Lubrificant

Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	010621025	13,688
10,5	87	133	10	5	010621050	12,332
10,75	94	142	10	5	010621075	15,800
11	94	142	10	5	010621100	14,165
11,25	94	142	10	5	010621125	16,597
11,5	94	142	10	5	010621150	14,911
11,75	94	142	10	5	010621175	17,834
12	101	151	10	5	010621200	15,854
12,25	101	151	10	5	010621225	19,163
12,5	101	151	10	5	010621250	17,023
12,75	101	151	10	5	010621275	21,276
13	101	151	10	5	010621300	18,125
13,25	108	160	10	3	010621325	24,851
13,5	108	160	10	3	010621350	22,682
13,75	108	160	10	3	010621375	24,851
14	108	160	10	3	010621400	23,214
14,25	114	169	10	3	010621425	29,155
14,5	114	169	10	3	010621450	25,368
14,75	114	169	10	3	010621475	29,155
15	114	169	10	3	010621500	26,870
15,25	120	178	10	3	010621525	35,468
15,5	120	178	10	3	010621550	30,936
15,75	120	178	10	3	010621575	35,468
16	120	178	10	3	010621600	32,477
16,5	125	184	10	1	010621650	32,716
17	125	184	10	1	010621700	34,537
17,5	130	191	10	1	010621750	36,251
18	130	191	10	1	010621800	38,776
18,5	135	198	10	1	010621850	42,403
19	135	198	10	1	010621900	43,824
19,5	140	205	10	1	010621950	49,020
20	140	205	10	1	010622000	49,020

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO, INTERAMENTE RETTIFICATE
Reduced shank twist drills

01063 **HSS-G** **DIN 338 RETTIFICATA**
Ground from the solid

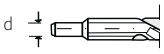
Codolo ridotto - 13mm
Reduced shank - 13mm



Confezione
Packaging







d=13 mm

R ≤ 800 N/mm²

Applicazioni
Applications


Acciaio
Steel


Metalli
Metals


Emulsione
Lubrificant

Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	010631325	**24,851**
13,5	108	160	13	3	010631350	**22,682**
13,75	108	160	13	3	010631375	**24,851**
14	108	160	13	3	010631400	**23,214**
14,25	114	169	13	3	010631425	**29,155**
14,5	114	169	13	3	010631450	**25,368**
14,75	114	169	13	3	010631475	**29,155**
15	114	169	13	3	010631500	**26,870**
15,25	120	178	13	3	010631525	**35,468**
15,5	120	178	13	3	010631550	**30,936**
15,75	120	178	13	3	010631575	**35,468**
16	120	178	13	3	010631600	**32,477**
16,5	125	184	13	1	010631650	**32,716**
17	125	184	13	1	010631700	**34,537**
17,5	130	191	13	1	010631750	**36,251**
18	130	191	13	1	010631800	**38,776**
18,5	135	198	13	1	010631850	**42,403**
19	135	198	13	1	010631900	**43,824**
19,5	140	205	13	1	010631950	**49,020**
20	140	205	13	1	010632000	**49,020**
20,5	145	213	13	1	010632050	**50,439**
21	145	213	13	1	010632100	**50,439**
21,5	150	221	13	1	010632150	**51,706**
22	150	221	13	1	010632200	**51,706**
22,5	150	221	13	1	010632250	**53,408**
23	155	229	13	1	010632300	**53,408**
23,5	155	229	13	1	010632350	**54,311**
24	160	236	13	1	010632400	**54,311**
24,5	160	236	13	1	010632450	**57,099**
25	160	236	13	1	010632500	**57,099**

PUNTE ELICOIDALI CILINDRICHE SINISTRE, INTERAMENTE RETTIFICATE
Straight shank twist drills, left hand

01090 **HSS-G** **DIN 338 RETTIFICATA**
Ground from the solid

Serie corta - Sinistra
Short serie - Left hand

118° W 27°



<5 d



Confezione
Packaging



R ≤ 800 N/mm²

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

Ø h8	l	L	pcs.	cod.	€ cad/each
1	12	34	10	010900100	3,716
1,5	18	40	10	010900150	2,937
2	24	49	10	010900200	2,937
2,1	24	49	10	010900210	2,937
2,2	27	53	10	010900220	2,937
2,3	27	53	10	010900230	2,937
2,4	30	57	10	010900240	2,937
2,5	30	57	10	010900250	2,937
2,6	30	57	10	010900260	2,937
2,7	33	61	10	010900270	2,937
2,8	33	61	10	010900280	2,937
2,9	33	61	10	010900290	2,937
3	33	61	10	010900300	2,937
3,2	36	65	10	010900320	3,604
3,3	36	65	10	010900330	3,604
3,4	36	65	10	010900340	6,938
3,5	39	70	10	010900350	3,604
3,7	39	70	10	010900370	3,964
3,8	43	75	10	010900380	3,964
4	43	75	10	010900400	3,964
4,1	43	75	10	010900410	4,558
4,2	43	75	10	010900420	4,558
4,5	47	80	10	010900450	4,558
4,6	47	80	10	010900460	4,930
4,7	47	80	10	010900470	4,930
4,8	52	86	10	010900480	4,930
5	52	86	10	010900500	4,930
5,1	52	86	10	010900510	6,676
5,2	52	86	10	010900520	6,676
5,5	57	93	10	010900550	6,676
5,8	57	93	10	010900580	7,309
6	57	93	10	010900600	7,309
6,2	57	101	10	010900620	15,767
6,3	57	101	10	010900630	16,257
6,5	63	101	10	010900650	8,868
7	69	109	10	010900700	10,652
7,5	69	109	5	010900750	12,028
7,8	69	117	5	010900780	22,979
8	75	117	5	010900800	12,919
8,5	75	117	5	010900850	13,649
8,7	75	117	5	010900870	28,113
9	81	125	5	010900900	16,760
9,5	81	125	5	010900950	18,096
10	87	133	5	010901000	19,868
10,5	87	133	5	010901050	24,958
11	94	142	5	010901100	29,242
11,5	94	142	5	010901150	30,606
12	101	151	5	010901200	33,901
12,5	101	151	5	010901250	36,973
13	101	151	5	010901300	37,753
13,5	101	151	5	010901350	58,656

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA CORTA, INTERAMENTE RETTIFICATE
Straight shank twist drills, stub serie

01094 **HSS-G** **DIN 1897 RETTIFICATA**
Ground from the solid

Serie extra corta
Extra short serie

130° W 27°

HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)

<3 d



Confezione
Packaging



R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

Emulsione
Lubrificant

Art. 01373 Self
Disponibile su richiesta
On demand

Ø h8	l	L	pcs.	cod.	€ cad/each
1,5	9	32	10	010940150	**0,996**
2	12	38	10	010940200	**0,996**
2,2	13	40	10	010940220	**1,208**
2,25	13	40	10	010940225	**1,208**
2,5	14	43	10	010940250	**1,103**
2,75	16	46	10	010940275	**1,369**
2,8	16	46	10	010940280	**1,369**
3	16	46	10	010940300	**1,369**
3,1	18	49	10	010940310	**1,503**
3,2	18	49	10	010940320	**1,503**
3,25	18	49	10	010940325	**1,503**
3,5	20	52	10	010940350	**1,503**
3,7	20	52	10	010940370	**1,661**
3,75	20	52	10	010940375	**1,661**
3,8	22	55	10	010940380	**1,661**
4	22	55	10	010940400	**1,661**
4,1	22	55	10	010940410	**2,073**
4,2	22	55	10	010940420	**2,073**
4,25	22	55	10	010940425	**2,073**
4,5	24	58	10	010940450	**1,887**
4,75	24	58	10	010940475	**2,113**
4,8	26	62	10	010940480	**2,113**
5	26	62	10	010940500	**1,968**
5,1	26	62	10	010940510	**2,764**
5,2	26	62	10	010940520	**2,764**
5,25	26	62	10	010940525	**2,764**
5,5	28	66	10	010940550	**2,605**
5,75	28	66	10	010940575	**3,110**
5,8	28	66	10	010940580	**3,110**
6	28	66	10	010940600	**2,911**
6,25	31	70	10	010940625	**3,496**
6,5	31	70	10	010940650	**3,496**
6,75	34	74	10	010940675	**4,078**
7	34	74	10	010940700	**4,078**
7,25	34	74	5	010940725	**4,332**
7,5	34	74	5	010940750	**4,332**
7,75	37	79	5	010940775	**5,264**
8	37	79	5	010940800	**5,264**
8,25	37	79	5	010940825	**7,043**
8,5	37	79	5	010940850	**7,043**
8,75	40	84	5	010940875	**8,081**
9	40	84	5	010940900	**8,081**
9,25	40	84	5	010940925	**9,182**
9,5	40	84	5	010940950	**9,182**
9,75	40	84	5	010940975	**10,366**
10	43	89	5	010941000	**10,366**
10,25	43	89	5	010941025	**14,814**
10,5	43	89	5	010941050	**14,814**
10,75	47	95	5	010941075	**15,802**
11	47	95	5	010941100	**15,802**
11,25	47	95	5	010941125	**16,667**
11,5	47	95	5	010941150	**16,667**
11,75	47	95	5	010941175	**17,161**
12	51	102	5	010941200	**17,161**
12,25	51	102	5	010941225	**18,888**
12,5	51	102	5	010941250	**18,888**
12,75	51	102	5	010941275	**19,383**
13	51	102	5	010941300	**19,383**

PUNTE ELICOIDALI CILINDRICHE SINISTRE, INTERAMENTE RETTIFICATE, SERIE EXTRA CORTA
Straight shank twist drills, left hand, stub serie

01067 **HSS-G** **DIN 1897 RETTIFICATA**
Ground from the solid

Serie extracorta - Sinistra
Stub serie - Left hand

118° W 27°



Confezione
Packaging





<3 d

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

Emulsione
Lubrificant

Ø h8	l	L	pcs.	cod.	€ cad/each
1,5	9	32	10	010670150	43,404
2	12	38	10	010670200	21,276
2,2	13	40	10	010670220	33,834
2,5	14	43	10	010670250	32,475
2,7	16	46	10	010670270	37,291
2,8	16	46	10	010670280	43,712
3	16	46	10	010670300	26,364
3,1	18	49	10	010670310	30,537
3,2	18	49	10	010670320	31,611
3,5	20	52	10	010670350	29,018
3,7	20	52	10	010670370	33,759
3,75	20	52	10	010670375	34,574
3,8	22	55	10	010670380	34,574
4	22	55	10	010670400	31,402
4,2	22	55	10	010670420	34,327
4,5	24	58	10	010670450	32,969
4,8	26	62	10	010670480	37,044
5	26	62	10	010670500	32,969
5,1	26	62	10	010670510	37,390
5,2	26	62	10	010670520	39,514
5,5	28	66	10	010670550	33,710
5,7	28	66	10	010670570	42,230
5,8	28	66	10	010670580	42,230
6	28	66	10	010670600	33,710
6,5	31	70	10	010670650	35,686
7	34	74	10	010670700	37,167
7,5	34	74	5	010670750	40,193
8	37	79	5	010670800	40,378
8,5	37	79	5	010670850	40,378
9	40	84	5	010670900	42,329
9,5	40	84	5	010670950	42,329
10	43	89	5	010671000	43,218
10,2	43	89	5	010671020	45,194
10,5	43	89	5	010671050	49,787
11	47	95	5	010671100	61,740
11,5	47	95	5	010671150	67,667
12	51	102	5	010671200	70,878
12,5	51	102	5	010671250	76,187
13	51	102	5	010671300	80,015
14	54	107	3	010671400	93,104
15	56	111	3	010671500	113,108
16	58	115	3	010671600	128,172

PUNTE ELICOIDALI CILINDRICHE, SERIE ELICA CONTRAPPOSTA, INTERAMENTE RETTIFICATE
Straight shank twist drills, double ended

01095 **HSS-G** **RETTIFICATA**
Ground from the solid

Elica contrapposta
Double ended

130° W 27°

HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)

<3 d

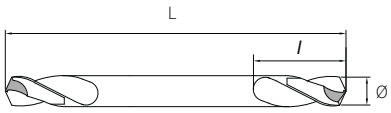
R ≤ 800 N/mm²



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2	10	38	10	010950200	1,711
2,5	10	43	10	010950250	1,711
3	11	46	10	010950300	1,969
3,2	11	49	10	010950320	1,969
3,25	11	49	10	010950325	1,969
3,3	11	49	10	010950330	1,969
3,4	14	52	10	010950340	1,969
3,5	14	52	10	010950350	1,969
3,75	14	55	10	010950375	2,212
4	14	55	10	010950400	2,212
4,1	14	55	10	010950410	2,632
4,2	17	58	10	010950420	2,632
4,25	17	58	10	010950425	2,632
4,5	17	58	10	010950450	2,900
4,75	17	62	10	010950475	3,207
4,9	17	62	10	010950490	3,207
5	17	62	10	010950500	3,207
5,1	17	62	10	010950510	4,281
5,5	17	66	10	010950550	4,281
6	17	66	10	010950600	4,702
6,5	17	66	10	010950650	5,309





Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE SERIE LUNGA, INTERAMENTE RETTIFICATE
Long straight shank twist drills

01096 | **HSS-G** | **DIN 340 RETTIFICATA**
Ground from the solid

Serie lunga
Long serie

130° W 27°

HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)

<8 d



Confezione
Packaging



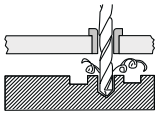
R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

Emulsione
Lubrificant



Ø h8	l	L	pcs.	cod.	€ cad/each
1	33	56	10	010960100	2,139
1,5	45	70	10	010960150	2,139
1,75	53	80	10	010960175	2,365
2	56	85	10	010960200	2,247
2,25	59	90	10	010960225	2,484
2,5	62	95	10	010960250	2,365
2,75	66	100	10	010960275	2,737
3	66	100	10	010960300	2,737
3,25	69	106	10	010960325	2,976
3,5	73	112	10	010960350	2,911
3,75	73	112	10	010960375	3,096
4	78	119	10	010960400	2,950
4,25	78	119	10	010960425	3,748
4,5	82	126	10	010960450	3,800
4,75	82	126	10	010960475	3,880
5	87	132	10	010960500	3,694
5,25	87	132	10	010960525	5,116
5,5	91	139	10	010960550	5,116
5,75	91	139	10	010960575	5,594
6	91	139	10	010960600	5,594
6,25	97	148	5	010960625	6,326
6,5	97	148	5	010960650	6,021
6,75	97	148	5	010960675	7,375
7	102	156	5	010960700	6,765
7,25	102	156	5	010960725	8,319
7,5	102	156	5	010960750	7,921
7,75	109	165	5	010960775	9,462
8	109	165	5	010960800	9,010
8,25	109	165	5	010960825	12,452
8,5	109	165	5	010960850	12,452
8,75	115	175	5	010960875	13,036
9	115	175	5	010960900	13,036
9,25	115	175	5	010960925	14,670
9,5	115	175	5	010960950	13,966
9,75	121	184	5	010960975	16,065
10	121	184	5	010961000	15,308
10,25	121	184	5	010961025	18,459
10,5	121	184	5	010961050	18,459
10,75	121	184	5	010961075	18,763
11	128	195	5	010961100	18,763
11,25	128	195	5	010961125	20,717
11,5	128	195	5	010961150	20,717
11,75	128	195	5	010961175	22,562
11,8	128	195	5	010961180	22,562
12	134	205	5	010961200	22,562
12,25	134	205	5	010961225	23,308
12,5	134	205	5	010961250	23,308
12,75	134	205	5	010961275	27,308
13	134	205	5	010961300	27,308
13,5	140	214	3	010961350	37,659
14	140	214	3	010961400	37,659
14,5	144	220	3	010961450	53,301
15	144	220	3	010961500	50,762
15,5	149	227	3	010961550	61,873
16	149	227	3	010961600	58,934
16,5	154	235	1	010961650	61,087
17	154	235	1	010961700	62,814
17,5	158	241	1	010961750	69,711
18	158	241	1	010961800	70,855
18,5	162	247	1	010961850	80,489
19	162	247	1	010961900	82,070
19,5	166	254	1	010961950	86,959
20	166	254	1	010962000	87,957

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE
Extra long straight shank twist drills

01098 **HSS-G** **DIN 1869/1 RETTIFICATA**
Ground from the solid

Serie extra lunga
Extra long serie

130° **W 27°**

HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)

<10 d

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

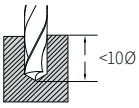
Emulsione
Lubrificant

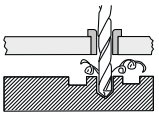


Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2	85	125	1	010980200	**10,853**
2,5	95	140	1	010980250	**11,398**
3	100	150	1	010980300	**12,620**
3,5	115	165	1	010980350	**13,391**
4	120	175	1	010980400	**13,391**
4,5	125	185	1	010980450	**14,562**
5	135	195	1	010980500	**14,562**
5,25	135	195	1	010980525	**17,689**
5,5	140	205	1	010980550	**17,689**
5,75	140	205	1	010980575	**17,689**
6	140	205	1	010980600	**17,689**
6,5	150	215	1	010980650	**21,093**
6,8	155	225	1	010980680	**24,350**
7	155	225	1	010980700	**24,350**
7,5	155	225	1	010980750	**27,542**
7,75	165	240	1	010980775	**30,135**
8	165	240	1	010980800	**30,135**
8,5	165	240	1	010980850	**31,639**
9	175	250	1	010980900	**40,003**
9,5	175	250	1	010980950	**43,529**
10	185	265	1	010981000	**43,529**
10,2	185	265	1	010981020	**43,529**
10,5	185	265	1	010981050	**43,529**
11	195	280	1	010981100	**43,529**
11,5	195	280	1	010981150	**54,844**
11,75	205	295	1	010981175	**54,844**
12	205	295	1	010981200	**54,844**
12,5	205	295	1	010981250	**57,439**
13	205	295	1	010981300	**57,439**





01099 HSS-G DIN 1869/2 RETTIFICATA
Ground from the solid

Serie extra lunga
Extra long serie

130° W 27°

HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)

<10 d

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

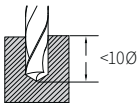
Emulsione *Lubrificant*

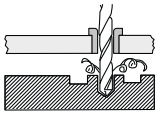


Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	130	190	1	010990300	15,520
3,5	145	210	1	010990350	16,118
4	150	220	1	010990400	16,666
4,5	160	235	1	010990450	19,257
5	170	245	1	010990500	19,789
5,5	180	260	1	010990550	25,853
5,75	180	260	1	010990575	25,853
6	180	260	1	010990600	25,853
6,5	190	275	1	010990650	27,542
7	200	290	1	010990700	31,958
7,5	200	290	1	010990750	36,732
8	210	305	1	010990800	37,411
8,5	210	305	1	010990850	48,966
9	220	320	1	010990900	58,262
9,5	220	320	1	010990950	58,980
10	235	340	1	010991000	58,980
10,5	235	340	1	010991050	61,201
11	250	365	1	010991100	61,201
11,5	250	365	1	010991150	64,276
12	260	375	1	010991200	77,122
12,5	260	375	1	010991250	80,964
13	260	375	1	010991300	80,964





01100 HSS-G DIN 1869/3 RETTIFICATA
Ground from the solid

Serie extra lunga
Extra long serie

130° W 27°

HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)

<10 d

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

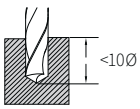
Emulsione *Lubrificant*

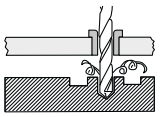


Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3,5	180	265	1	011000350	20,360
4	190	280	1	011000400	19,630
4,5	200	295	1	011000450	23,393
5	210	315	1	011000500	24,390
5,5	225	330	1	011000550	26,186
6	225	330	1	011000600	27,369
6,5	235	350	1	011000650	30,349
7	250	370	1	011000700	39,285
7,5	250	370	1	011000750	44,632
8	265	390	1	011000800	44,632
8,5	265	390	1	011000850	58,315
9	280	410	1	011000900	63,078
9,5	280	410	1	011000950	68,436
10	295	430	1	011001000	68,436
10,5	295	430	1	011001050	68,436
11	310	455	1	011001100	68,436
11,5	310	455	1	011001150	71,867
12	330	480	1	011001200	86,230
12,5	330	480	1	011001250	99,596
13	330	480	1	011001300	99,596





PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE
Extra long straight shank twist drills

01129 HSS-G

Speciale infissi
Special for casing



130° W 27°

HV 820
SPLIT POINT
DIN 1412C

R ≤ 800 N/mm²

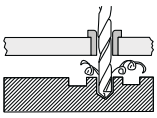
Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

Emulsione *Lubricant*

Ø h8	l	L	pcs.	cod.	€ cad/each
3	16	100	10	011291000300	3,646
5	30	210	10	011292100500	7,282
5,3	30	210	10	011292100530	7,457
5,8	30	150	10	011291500580	5,645
5,8	30	210	10	011292100580	7,710



01370 HSS-G DIN 1869/1 RETTIFICATA

Ground from the solid

Serie extra lunga
Extra long serie



Confezione
Packaging



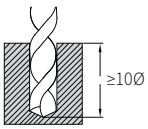
130° W 35°

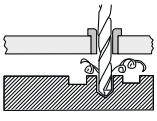
HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



≥10 d

Ø h8	l	L	pcs.	cod.	€ cad/each
2	85	125	1	013700200	17,569
2,5	95	140	1	013700250	17,488
3	100	150	1	013700300	19,489
3,5	115	165	1	013700350	20,121
4	120	175	1	013700400	22,384
4,5	125	185	1	013700450	22,754
5	135	195	1	013700500	23,281
5,25	135	195	1	013700525	26,547
5,5	140	205	1	013700550	26,547
5,75	140	205	1	013700575	26,547
6	140	205	1	013700600	26,547
6,5	150	215	1	013700650	33,184
7	155	225	1	013700700	37,925
7,5	155	225	1	013700750	44,773
8	165	240	1	013700800	48,565
8,5	165	240	1	013700850	62,575
9	175	250	1	013700900	66,368
9,5	175	250	1	013700950	75,850
10	185	265	1	013701000	70,161
10,5	185	265	1	013701050	84,170
11	195	280	1	013701100	94,389
11,5	195	280	1	013701150	103,133
12	205	295	1	013701200	124,731
12,5	205	295	1	013701250	130,839
13	205	295	1	013701300	125,572





R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

Emulsione *Lubricant*

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE
Extra long straight shank twist drills

01371 HSS-G DIN 1869/2 RETTIFICATA
Ground from the solid

Serie extra lunga
Extra long serie

130° W 35°

HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)

≥10 d

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

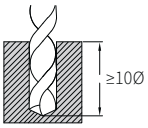
Emulsione *Lubricant*

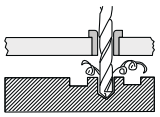


Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3	130	190	1	013710300	23,667
3,5	145	210	1	013710350	23,983
4	150	220	1	013710400	24,182
4,5	160	235	1	013710450	29,356
5	170	245	1	013710500	28,257
5,5	180	260	1	013710550	37,610
6	180	260	1	013710600	36,719
6,5	190	275	1	013710650	41,191
7	200	290	1	013710700	46,563
7,5	200	290	1	013710750	55,518
8	210	305	1	013710800	55,518
8,5	210	305	1	013710850	75,217
9	220	320	1	013710900	77,009
9,5	220	320	1	013710950	91,334
10	235	340	1	013711000	87,753
10,5	235	340	1	013711050	114,616
11	250	365	1	013711100	131,437
11,5	250	365	1	013711150	146,453
12	260	375	1	013711200	147,555
12,5	260	375	1	013711250	156,205
13	260	375	1	013711300	154,014





01372 HSS-G DIN 1869/3 RETTIFICATA
Ground from the solid

Serie extra lunga
Extra long serie

130° W 35°

HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)

≥10 d

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

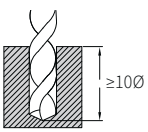
Emulsione *Lubricant*

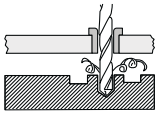


Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
3,5	180	265	1	013720350	36,028
4	190	280	1	013720400	36,028
4,5	200	295	1	013720450	45,510
5	210	315	1	013720500	45,510
5,5	225	330	1	013720550	48,565
6	225	330	1	013720600	49,301
6,5	235	350	1	013720650	54,990
7	250	370	1	013720700	72,058
7,5	250	370	1	013720750	81,538
8	265	390	1	013720800	83,434
8,5	265	390	1	013720850	106,189
9	280	410	1	013720900	117,564
9,5	280	410	1	013720950	130,839
10	295	430	1	013721000	130,839
10,5	295	430	1	013721050	137,264
11	310	455	1	013721100	156,649
11,5	310	455	1	013721150	168,343
12	330	480	1	013721200	175,611
12,5	330	480	1	013721250	180,561
13	330	480	1	013721300	180,561





01105 HSS-G NORMA KRINO

Ground from the solid

L=305 mm

130° **W 27°**

HV 820
SPLIT POINT
DIN 1412C

<10 d

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

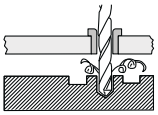
Emulsione
Lubricant



Confezione
Packaging



Ø	l	L	d	pcs.	cod.	€ cad/each
6	228	305	6	1	011050600	27,329
6,5	228	305	6,5	1	011050650	30,212
7	228	305	7	1	011050700	38,834
7,5	228	305	7,5	1	011050750	44,595
8	228	305	8	1	011050800	48,907
8,5	228	305	8,5	1	011050850	58,260
9	228	305	9	1	011050900	58,260
9,5	228	305	9,5	1	011050950	60,412
10	228	305	10	1	011051000	60,412
10,5	228	305	10,5	1	011051050	61,852
11	228	305	11	1	011051100	61,852
11,5	228	305	11,5	1	011051150	64,012
12	228	305	12	1	011051200	64,012
12,5	228	305	12,5	1	011051250	67,127
13	228	305	13	1	011051300	67,127
14	228	305	13	1	011051400	83,430
15	228	305	13	1	011051500	95,941
16	228	305	13	1	011051600	107,046



01114 HSS-G NORMA KRINO

Ground from the solid

L=460 mm

130° **W 27°**

HV 820
SPLIT POINT
DIN 1412C

<10 d

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

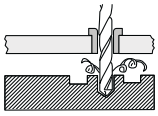
Emulsione
Lubricant



Confezione
Packaging



Ø	l	L	d	pcs.	cod.	€ cad/each
6	330	460	6	1	011140600	43,403
8	330	460	8	1	011140800	69,403
10	330	460	10	1	011141000	100,460
12	330	460	12	1	011141200	137,162
14	330	460	14	1	011141400	191,792
16	330	460	16	1	011141600	239,734



PUNTE ELICOIDALI CILINDRICHE, INTERAMENTE RETTIFICATE, SERIE CORTA, FINITURA BRILLANTE

Fully ground straight shank twist drills

01070 **HSS-G** **DIN 338 RETTIFICATA**

Ground from the solid

Serie corta

Short serie

130° W 27°

HV = 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥2,5)

<5 d



Confezione
Packaging



R ≤ 800 N/mm²

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Art. 01071 Self
Disponibile su richiesta
On demand

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².

Ø h8	l	L	pcs.	cod.	€ cad/each
0,3	3	19	10	010700030	2,784
0,35	4	19	10	010700035	2,526
0,4	5	20	10	010700040	2,398
0,45	5	20	10	010700045	2,398
0,5	6	22	10	010700050	2,063
0,55	7	24	10	010700055	2,398
0,6	7	24	10	010700060	1,895
0,65	8	26	10	010700065	2,063
0,7	9	28	10	010700070	1,766
0,75	9	28	10	010700075	1,766
0,8	10	30	10	010700080	1,766
0,85	10	30	10	010700085	1,766
0,9	11	32	10	010700090	1,651
0,95	11	32	10	010700095	1,766
1	12	34	10	010700100	1,341
1,1	14	36	10	010700110	1,404
1,2	16	38	10	010700120	1,404
1,25	16	38	10	010700125	1,404
1,3	16	38	10	010700130	1,404
1,4	18	40	10	010700140	1,404
1,5	18	40	10	010700150	1,212
1,6	20	43	10	010700160	1,148
1,7	20	43	10	010700170	1,148
1,75	22	46	10	010700175	1,148
1,8	22	46	10	010700180	1,148
1,9	22	46	10	010700190	1,148
2	24	49	10	010700200	1,005
2,1	24	49	10	010700210	1,212
2,2	27	53	10	010700220	1,212
2,25	27	53	10	010700225	1,212
2,3	27	53	10	010700230	1,212
2,4	30	57	10	010700240	1,212
2,5	30	57	10	010700250	1,110
2,6	30	57	10	010700260	1,393
2,7	33	61	10	010700270	1,393
2,75	33	61	10	010700275	1,393
2,8	33	61	10	010700280	1,393
2,9	33	61	10	010700290	1,393
3	33	61	10	010700300	1,264
3,1	36	65	10	010700310	1,496
3,2	36	65	10	010700320	1,496
3,25	36	65	10	010700325	1,496
3,3	36	65	10	010700330	1,496
3,4	39	70	10	010700340	1,496
3,5	39	70	10	010700350	1,404
3,6	39	70	10	010700360	1,637
3,7	39	70	10	010700370	1,637
3,75	39	70	10	010700375	1,637
3,8	43	75	10	010700380	1,637
3,9	43	75	10	010700390	1,637
4	43	75	10	010700400	1,534
4,1	43	75	10	010700410	2,024
4,2	43	75	10	010700420	2,024
4,25	43	75	10	010700425	2,024
4,3	47	80	10	010700430	2,024
4,4	47	80	10	010700440	2,024
4,5	47	80	10	010700450	1,844
4,6	47	80	10	010700460	2,075
4,7	47	80	10	010700470	2,075
4,75	47	80	10	010700475	2,075
4,8	52	86	10	010700480	2,075
4,9	52	86	10	010700490	2,075
5	52	86	10	010700500	1,907

Serie corta
Short serie

Ø h8	l	L	pcs.	cod.	€ cad/each
5,1	52	86	10	010700510	**2,657**
5,2	52	86	10	010700520	**2,657**
5,25	52	86	10	010700525	**2,657**
5,3	52	86	10	010700530	**2,657**
5,4	57	93	10	010700540	**2,657**
5,5	57	93	10	010700550	**2,554**
5,6	57	93	10	010700560	**2,952**
5,7	57	93	10	010700570	**2,952**
5,75	57	93	10	010700575	**2,952**
5,8	57	93	10	010700580	**2,952**
5,9	57	93	10	010700590	**2,952**
6	57	93	10	010700600	**2,657**
6,1	63	101	10	010700610	**3,686**
6,2	63	101	10	010700620	**3,686**
6,25	63	101	10	010700625	**3,686**
6,3	63	101	10	010700630	**3,686**
6,4	63	101	10	010700640	**3,686**
6,5	63	101	10	010700650	**3,403**
6,6	63	101	10	010700660	**4,295**
6,7	63	101	10	010700670	**4,295**
6,75	69	109	10	010700675	**4,295**
6,8	69	109	10	010700680	**4,295**
6,9	69	109	10	010700690	**4,295**
7	69	109	10	010700700	**3,970**
7,1	69	109	5	010700710	**4,720**
7,2	69	109	5	010700720	**4,720**
7,25	69	109	5	010700725	**4,720**
7,3	69	109	5	010700730	**4,720**
7,4	69	109	5	010700740	**4,720**
7,5	69	109	5	010700750	**4,202**
7,6	75	117	5	010700760	**5,299**
7,7	75	117	5	010700770	**5,299**
7,75	75	117	5	010700775	**5,299**
7,8	75	117	5	010700780	**5,299**
7,9	75	117	5	010700790	**5,299**
8	75	117	5	010700800	**5,003**
8,1	75	117	5	010700810	**6,511**
8,2	75	117	5	010700820	**6,511**
8,25	75	117	5	010700825	**6,511**
8,3	75	117	5	010700830	**6,511**
8,4	75	117	5	010700840	**6,511**
8,5	75	117	5	010700850	**6,176**
8,6	81	125	5	010700860	**6,755**
8,7	81	125	5	010700870	**6,755**
8,75	81	125	5	010700875	**6,755**
8,8	81	125	5	010700880	**6,755**
8,9	81	125	5	010700890	**6,755**
9	81	125	5	010700900	**6,472**
9,1	81	125	5	010700910	**7,646**
9,2	81	125	5	010700920	**7,646**
9,25	81	125	5	010700925	**7,646**
9,3	81	125	5	010700930	**7,646**
9,4	81	125	5	010700940	**7,646**
9,5	81	125	5	010700950	**6,962**
9,6	87	133	5	010700960	**8,096**
9,7	87	133	5	010700970	**8,096**
9,75	87	133	5	010700975	**8,096**
9,8	87	133	5	010700980	**8,096**
9,9	87	133	5	010700990	**8,096**
10	87	133	5	010701000	**7,284**
10,2	87	133	5	010701020	**10,351**
10,25	87	133	5	010701025	**10,351**
10,4	87	133	5	010701040	**10,351**
10,5	87	133	5	010701050	**9,036**
10,75	94	142	5	010701075	**12,403**
11	94	142	5	010701100	**10,817**
11,25	94	142	5	010701125	**13,176**
11,5	94	142	5	010701150	**11,539**
11,75	94	142	5	010701175	**14,375**
12	101	151	5	010701200	**12,454**
12,25	101	151	5	010701225	**15,663**
12,4	101	151	5	010701240	**15,663**
12,5	101	151	5	010701250	**13,589**
12,75	101	151	5	010701275	**17,714**
13	101	151	5	010701300	**14,659**
13,25	108	160	3	010701325	**20,769**
13,5	108	160	3	010701350	**18,654**
13,75	108	160	3	010701375	**20,769**
14	108	160	3	010701400	**19,171**
14,25	114	169	3	010701425	**24,935**
14,5	114	169	3	010701450	**21,260**
14,75	114	169	3	010701475	**24,935**
15	114	169	3	010701500	**22,716**
15,25	120	178	3	010701525	**31,071**
15,5	120	178	3	010701550	**26,662**
15,75	120	178	3	010701575	**31,071**
16	120	178	3	010701600	**28,171**
16,5	125	184	1	010701650	**28,389**
17	125	184	1	010701700	**30,168**
17,5	130	191	1	010701750	**31,819**
18	130	191	1	010701800	**34,281**
18,5	135	198	1	010701850	**37,787**
19	135	198	1	010701900	**39,165**
20	140	205	1	010702000	**44,221**

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO INTERAMENTE RETTIFICATE, FINITURA BRILLANTE

Reduced shank twist drills

01072 **HSS-G** **DIN 338 RETTIFICATA**

Ground from the solid

Codolo ridotto - 10mm

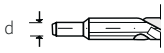
Reduced shank - 10mm





Confezione
Packaging





d=10 mm

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	010721025	**13,280**
10,5	87	133	10	5	010721050	**11,965**
10,75	94	142	10	5	010721075	**15,328**
11	94	142	10	5	010721100	**13,742**
11,25	94	142	10	5	010721125	**16,102**
11,5	94	142	10	5	010721150	**14,465**
11,75	94	142	10	5	010721175	**17,302**
12	101	151	10	5	010721200	**15,381**
12,25	101	151	10	5	010721225	**18,591**
12,5	101	151	10	5	010721250	**16,514**
12,75	101	151	10	5	010721275	**20,642**
13	101	151	10	5	010721300	**17,585**
13,25	108	160	10	3	010721325	**24,109**
13,5	108	160	10	3	010721350	**22,007**
13,75	108	160	10	3	010721375	**24,109**
14	108	160	10	3	010721400	**22,522**
14,25	114	169	10	3	010721425	**28,286**
14,5	114	169	10	3	010721450	**24,610**
14,75	114	169	10	3	010721475	**28,286**
15	114	169	10	3	010721500	**26,068**
15,25	120	178	10	3	010721525	**34,410**
15,5	120	178	10	3	010721550	**30,014**
15,75	120	178	10	3	010721575	**34,410**
16	120	178	10	3	010721600	**31,509**
16,5	125	184	10	1	010721650	**31,741**
17	125	184	10	1	010721700	**33,507**
17,5	130	191	10	1	010721750	**35,169**
18	130	191	10	1	010721800	**37,619**
18,5	135	198	10	1	010721850	**41,138**
19	135	198	10	1	010721900	**42,519**
19,5	140	205	10	1	010721950	**47,559**
20	140	205	10	1	010722000	**47,559**



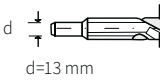
Art. 01073 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO INTERAMENTE RETTIFICATE, FINITURA BRILLANTE
Reduced shank twist drills

01074 **HSS-G** **DIN 338 RETTIFICATA**
Ground from the solid

Codolo ridotto - 13mm
Reduced shank - 13mm





R ≤ 800 N/mm²



Confezione
Packaging



Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	010741325	**24,109**
13,5	108	160	13	3	010741350	**22,007**
13,75	108	160	13	3	010741375	**24,109**
14	108	160	13	3	010741400	**22,522**
14,25	114	169	13	3	010741425	**28,286**
14,5	114	169	13	3	010741450	**24,610**
14,75	114	169	13	3	010741475	**28,286**
15	114	169	13	3	010741500	**26,068**
15,25	120	178	13	3	010741525	**34,410**
15,5	120	178	13	3	010741550	**30,014**
15,75	120	178	13	3	010741575	**34,410**
16	120	178	13	3	010741600	**31,509**
16,5	125	184	13	1	010741650	**31,741**
17	125	184	13	1	010741700	**33,507**
17,5	130	191	13	1	010741750	**35,169**
18	130	191	13	1	010741800	**37,619**
18,5	135	198	13	1	010741850	**41,138**
19	135	198	13	1	010741900	**42,519**
19,5	140	205	13	1	010741950	**47,559**
20	140	205	13	1	010742000	**47,559**

Applicazioni
Applications


Metalli
Metals


Acciaio
Steel


Emulsione
Lubrificant


Art. 01073 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI CILINDRICHE INTERAMENTE RETTIFICATE, SERIE EXTRA CORTA, FINITURA BRILLANTE

Straight shank twist drills, stub serie

01076 **HSS-G** **DIN 1897 RETTIFICATA**

Ground from the solid

Serie extra corta

Extra short serie



W 27°



HV = 820
SPLIT POINT
DIN 1412C
(Ø≥3)



<3 d

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
1,5	9	32	10	010760150	0,939
2	12	38	10	010760200	0,939
2,2	13	40	10	010760220	1,139
2,25	13	40	10	010760225	1,139
2,5	14	43	10	010760250	1,038
2,75	16	46	10	010760275	1,289
2,8	16	46	10	010760280	1,289
3	16	46	10	010760300	1,289
3,1	18	49	10	010760310	1,416
3,2	18	49	10	010760320	1,416
3,25	18	49	10	010760325	1,416
3,3	18	49	10	010760330	1,416
3,5	20	52	10	010760350	1,416
3,7	20	52	10	010760370	1,566
3,75	20	52	10	010760375	1,566
3,8	22	55	10	010760380	1,566
4	22	55	10	010760400	1,566
4,1	22	55	10	010760410	1,953
4,2	22	55	10	010760420	1,953
4,25	22	55	10	010760425	1,953
4,5	24	58	10	010760450	1,779
4,75	24	58	10	010760475	1,990
4,8	26	62	10	010760480	1,990
5	26	62	10	010760500	1,852
5,1	26	62	10	010760510	2,604
5,2	26	62	10	010760520	2,604
5,25	26	62	10	010760525	2,604
5,5	28	66	10	010760550	2,453
5,75	28	66	10	010760575	2,930
5,8	28	66	10	010760580	2,930
6	28	66	10	010760600	2,743
6,25	31	70	10	010760625	2,972
6,5	31	70	10	010760650	3,292
6,75	34	74	10	010760675	3,662
7	34	74	10	010760700	3,842
7,5	34	74	5	010760750	4,079
8	37	79	5	010760800	4,957
8,5	37	79	5	010760850	6,634
9	40	84	5	010760900	7,610
9,5	40	84	5	010760950	8,650
10	43	89	5	010761000	9,763
10,5	43	89	5	010761050	10,232
11	47	95	5	010761100	11,484
11,5	47	95	5	010761150	12,516
12	51	102	5	010761200	14,426
12,5	51	102	5	010761250	15,779
13	51	102	5	010761300	16,911



PUNTE ELICOIDALI SUPERCORTE
PER LATTONIERI, FINITURA BRILLANTE
Extra short twist drills for portable applications

01050 | **HSS-G** | **NORMA KRINO RETTIFICATA**
Ground from the solid

Serie Supercorta
Supershort serie

130° W 27°

HV = 750÷820
SPLIT POINT
DIN 1412C

<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.90°	€ cad/each
3	16	35	10	010500300	1,029
3,2	19	40	10	010500320	1,079
3,25	19	40	10	010500325	1,079
3,3	19	40	10	010500330	1,079
3,5	19	40	10	010500350	1,079
3,6	19	40	10	010500360	1,189
3,75	19	40	10	010500375	1,189
4	20	40	10	010500400	1,189
4,1	20	40	10	010500410	1,458
4,2	20	40	10	010500420	1,458
4,25	20	40	10	010500425	1,458
4,5	23	42	10	010500450	1,458
5	23	45	10	010500500	1,594



R ≤ 800 N/mm²

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Punte speciali per lattonieri, carpentieri, coperturisti, fabbri, installatori. Foratura dolce e precisa, grazie all'affilatura split point autocentrante, su lamiere e tubi in acciaio, rame e plastica.

Super short twist drills for cutting metal sheets, special for journeymen's, carpenters, locksmith's, tinsmith's.

PUNTE ELICOIDALI ELICA CONTRAPPOSTA, INTERAMENTE RETTIFICATE, FINITURA BRILLANTE
Fully ground twist drills

01077 **HSS-G** **RETTIFICATA**
Ground from the solid

Elica contrapposta
Double ended



W 27°



HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)



<3 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
2	10	38	10	010770200	**0,871**
2,5	10	43	10	010770250	**1,044**
3	11	46	10	010770300	**1,280**
3,2	11	49	10	010770320	**1,345**
3,25	11	49	10	010770325	**1,345**
3,3	11	49	10	010770330	**1,529**
3,4	14	52	10	010770340	**1,690**
3,5	14	52	10	010770350	**1,690**
3,75	14	55	10	010770375	**1,830**
4	14	55	10	010770400	**1,959**
4,1	14	55	10	010770410	**1,959**
4,2	17	58	10	010770420	**2,390**
4,25	17	58	10	010770425	**2,390**
4,5	17	58	10	010770450	**2,390**
4,75	17	62	10	010770475	**2,809**
4,9	17	62	10	010770490	**3,154**
5	17	62	10	010770500	**3,154**
5,1	17	62	10	010770510	**3,175**
5,5	17	66	10	010770550	**3,509**
6	17	66	10	010770600	**3,768**

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE SERIE LUNGA, INTERAMENTE RETTIFICATE, FINITURA BRILLANTE
Long straight shank twist drills

01078 **HSS-G** **DIN 340 RETTIFICATA**
Ground from the solid

Serie lunga
Long serie

130° W 27°

HV ≈ 820
SPLIT POINT
DIN 1412C
(Ø≥3)

<8 d

R ≤ 800 N/mm²



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
1,5	45	70	10	010780150	2,056
1,75	53	80	10	010780175	2,275
2	56	85	10	010780200	2,160
2,25	59	90	10	010780225	2,389
2,5	62	95	10	010780250	2,275
2,75	66	100	10	010780275	2,632
3	66	100	10	010780300	2,632
3,25	69	106	10	010780325	2,862
3,5	73	112	10	010780350	2,799
3,75	73	112	10	010780375	2,977
4	78	119	10	010780400	2,838
4,25	78	119	10	010780425	3,603
4,5	82	126	10	010780450	3,653
4,75	82	126	10	010780475	3,731
5	87	132	10	010780500	3,552
5,25	87	132	10	010780525	4,919
5,5	91	139	10	010780550	4,919
5,75	91	139	10	010780575	5,379
6	91	139	10	010780600	5,379
6,25	97	148	5	010780625	6,083
6,5	97	148	5	010780650	5,789
6,75	97	148	5	010780675	7,092
7	102	156	5	010780700	6,504
7,25	102	156	5	010780725	7,998
7,5	102	156	5	010780750	7,616
7,75	109	165	5	010780775	9,098
8	109	165	5	010780800	8,663
8,25	109	165	5	010780825	11,973
8,5	109	165	5	010780850	11,973
8,75	115	175	5	010780875	12,534
9	115	175	5	010780900	12,534
9,25	115	175	5	010780925	14,105
9,5	115	175	5	010780950	13,429
9,75	121	184	5	010780975	15,448
10	121	184	5	010781000	14,720
10,5	121	184	5	010781050	17,749
11	128	195	5	010781100	18,042
11,5	128	195	5	010781150	19,919
12	134	205	5	010781200	21,696
12,5	134	205	5	010781250	22,411
13	134	205	5	010781300	26,257
13,5	140	214	3	010781350	36,212
14	140	214	3	010781400	36,212
14,5	144	220	3	010781450	51,251
15	144	220	3	010781500	48,810
15,5	149	227	3	010781550	59,494
16	149	227	3	010781600	56,668
16,5	154	235	1	010781650	58,737
17	154	235	1	010781700	60,398
17,5	158	241	1	010781750	67,031
18	158	241	1	010781800	68,130
18,5	162	247	1	010781850	77,394
19	162	247	1	010781900	78,914
19,5	166	254	1	010781950	83,615
20	166	254	1	010782000	84,573

Applicazioni
Applications

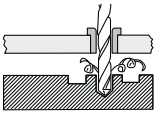
Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².



PUNTE ELICOIDALI INTERAMENTE RETTIFICATE, ATTACCO 1/4" HEX FORM E, FINITURA BRILLANTE

Fully ground twist drills whit 1/4" quich change shank

01079 HSS-G ~DIN 338

Ground from the solid

1/4" HEX FORM E

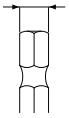




Confezione
Packaging



1/4" HEX FORM E



R ≤ 800 N/mm²

Ø h8	l	L	d	pcs.	cod.	€ cad/each
1,5	18	60	1/4	10	010790150	1,524
2	24	69	1/4	10	010790200	1,524
2,5	30	77	1/4	10	010790250	1,585
3	33	81	1/4	10	010790300	1,981
3,25	36	85	1/4	10	010790325	2,107
3,5	39	90	1/4	10	010790350	2,107
4	43	95	1/4	10	010790400	2,304
4,25	43	95	1/4	10	010790425	2,699
4,5	47	100	1/4	10	010790450	2,699
5	52	106	1/4	10	010790500	2,899
5,5	57	113	1/4	10	010790550	3,494
6	57	113	1/4	10	010790600	3,877
6,5	63	121	1/4	10	010790650	5,190
7	69	109	1/4	10	010790700	6,008
7,5	69	109	1/4	5	010790750	7,743
8	75	117	1/4	5	010790800	7,743
8,5	75	117	1/4	5	010790850	9,636
9	81	125	1/4	5	010790900	11,197
9,5	81	125	1/4	5	010790950	12,338
10	87	133	1/4	5	010791000	12,781

Applicazioni
Applications


Metalli
Metals


Acciaio
Steel


Emulsione
Lubrificant



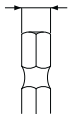
PUNTA CON ATTACCO ESAGONALE 1/4" PER AVVITATORI E TRAPANI REVERSIBILI

Drill bits with 1/4 hexagon drive for power screwdrivers and cordless drills

10211 HSS-G

1/4" HEX

1/4" HEX





R ≤ 800 N/mm²

Ø h8	l	L	d	pcs.	cod.	€ cad/each
1	7	32	1/4	1	102110100	7,194
1,5	10	32	1/4	1	102110150	7,194
2	12	34	1/4	1	102110200	7,194
2,5 (M3)	14	36	1/4	1	102110250	7,194
3	16	38	1/4	1	102110300	7,194
3,3 (M4)	18	40	1/4	1	102110330	7,194
3,5	18	40	1/4	1	102110350	7,194
4	20	44	1/4	1	102110400	7,194
4,2 (M5)	20	45	1/4	1	102110420	7,194
4,5	24	46	1/4	1	102110450	7,194
5 (M6)	26	50	1/4	1	102110500	7,194
5,5	26	50	1/4	1	102110550	7,476
6	26	50	1/4	1	102110600	7,476
6,5	30	50	1/4	1	102110650	7,476
6,8 (M8)	30	50	1/4	1	102110680	7,476
7	30	50	1/4	1	102110700	7,476
7,5	32	51	1/4	1	102110750	8,801
8	32	51	1/4	1	102110800	8,801
8,5 (M10)	33	53	1/4	1	102110850	10,058
9	33	53	1/4	1	102110900	10,058
9,5	38	54	1/4	1	102110950	11,311
10	38	54	1/4	1	102111000	11,311
10,2 (M12)	38	54	1/4	1	102111020	11,311

Applicazioni
Applications


Metalli
Metals


Acciaio
Steel


Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE IN POLLICI, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA, FINITURA BRILLANTE

Fully ground straight shank twist drills in inches

01115 **HSS-G** **ANSI B94 RETTIFICATA**

Ground from the solid

Serie corta - Pollici

Short serie - Inches

130° W 27°

HV = 820
SPLIT POINT
DIN 1412 C

<5 d

R ≤ 800 N/mm²



Confezione
Packaging



Ø inch	Ø mm	l inch	L inch	pcs.	cod.	€ cad/each
1/16	1,59	7/8	1-7/8	10	0111514	**0,899**
5/64	1,98	1”	2”	10	0111515	**0,954**
3/32	2,38	1-1/4	2-1/4	10	0111516	**1,101**
7/64	2,78	1-1/2	2-5/8	10	0111517	**1,276**
1/8	3,17	1-5/8	2-3/4	10	0111518	**1,342**
9/64	3,57	1-3/4	2-7/8	10	0111519	**1,491**
5/32	3,97	2”	3-1/8	10	0111520	**1,584**
11/64	4,37	2-1/8	3-1/4	10	0111521	**1,719**
3/16	4,76	2-5/16	3-1/2	10	0111522	**1,948**
13/64	5,16	2-7/16	3-5/8	10	0111523	**2,270**
7/32	5,56	2-1/2	3-3/4	10	0111524	**2,498**
15/64	5,95	2-5/8	3-7/8	10	0111525	**2,632**
1/4	6,35	2-3/4	4”	10	0111526	**2,832**
17/64	6,75	2-7/8	4-1/8	10	0111527	**3,183**
9/32	7,14	2-15/16	4-1/4	5	0111528	**3,707**
19/64	7,54	3-1/16	4-3/8	5	0111529	**3,949**
5/16	7,94	3-3/16	4-1/2	5	0111530	**4,324**
21/64	8,33	3-5/16	4-5/8	5	0111531	**5,976**
11/32	8,73	3-7/16	4-3/4	5	0111532	**6,246**
23/64	9,13	3-1/2	4-7/8	5	0111533	**6,675**
3/8	9,52	3-5/8	5”	5	0111534	**6,810**
25/64	9,92	3-3/4	5-1/8	5	0111535	**7,036**
13/32	10,32	3-7/8	5-1/4	5	0111536	**7,600**
27/64	10,72	3-15/16	5-3/8	5	0111537	**8,501**
7/16	11,11	4-1/16	5-1/2	5	0111538	**9,869**
29/64	11,51	4-3/16	5-5/8	5	0111539	**10,192**
15/32	11,91	4-5/16	5-3/4	5	0111540	**10,676**
31/64	12,30	4-7/16	5-7/8	5	0111541	**11,521**
1/2	12,70	4-1/2	6”	5	0111542	**12,812**

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA CON ANGOLO AL VERTICE DI 118°

Fully ground straight shank twist drills

01066 **HSS-G** **DIN 338 - 118° RETTIFICATA**

Ground from the solid

Serie corta - 118°

Short serie - 118°

118° W 27°

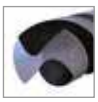
AISI M2
HV ≈ 820

<5 d



Confezione
Packaging





R ≤ 800 N/mm²

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Ø h8	l	L	pcs.	cod.	€ cad/each
1	12	34	10	010660100	0,780
1,1	14	36	10	010660110	0,780
1,2	16	38	10	010660120	0,780
1,25	16	38	10	010660125	0,780
1,3	16	38	10	010660130	0,780
1,4	18	40	10	010660140	0,780
1,5	18	40	10	010660150	0,780
1,6	20	43	10	010660160	0,780
1,7	20	43	10	010660170	0,780
1,75	22	46	10	010660175	0,780
1,8	22	46	10	010660180	0,780
1,9	22	46	10	010660190	0,780
2	24	49	10	010660200	0,780
2,1	24	49	10	010660210	0,780
2,2	27	53	10	010660220	0,780
2,25	27	53	10	010660225	0,780
2,3	27	53	10	010660230	0,780
2,4	30	57	10	010660240	0,780
2,5	30	57	10	010660250	0,780
2,6	30	57	10	010660260	0,780
2,7	33	61	10	010660270	0,780
2,75	33	61	10	010660275	0,780
2,8	33	61	10	010660280	0,780
2,9	33	61	10	010660290	0,780
3	36	61	10	010660300	0,780
3,1	36	65	10	010660310	0,917
3,2	36	65	10	010660320	0,917
3,25	36	65	10	010660325	0,917
3,3	36	65	10	010660330	0,917
3,4	39	70	10	010660340	0,917
3,5	39	70	10	010660350	0,917
3,6	39	70	10	010660360	0,991
3,7	39	70	10	010660370	0,991
3,75	39	70	10	010660375	0,991
3,8	43	75	10	010660380	0,991
3,9	43	75	10	010660390	0,991
4	43	75	10	010660400	0,991
4,1	43	75	10	010660410	1,263
4,2	43	75	10	010660420	1,263
4,25	43	75	10	010660425	1,263
4,3	47	80	10	010660430	1,263
4,4	47	80	10	010660440	1,263
4,5	47	80	10	010660450	1,263
4,6	47	80	10	010660460	1,585
4,7	47	80	10	010660470	1,585
4,75	47	80	10	010660475	1,585
4,8	52	86	10	010660480	1,585
4,9	52	86	10	010660490	1,585
5	52	86	10	010660500	1,585
5,1	52	86	10	010660510	2,093
5,2	52	86	10	010660520	2,093
5,25	52	86	10	010660525	2,093
5,3	52	86	10	010660530	2,093
5,4	57	93	10	010660540	2,093
5,5	57	93	10	010660550	2,093
5,6	57	93	10	010660560	2,416
5,7	57	93	10	010660570	2,416
5,75	57	93	10	010660575	2,416
5,8	57	93	10	010660580	2,416
5,9	57	93	10	010660590	2,416
6	57	93	10	010660600	2,416
6,1	63	101	10	010660610	2,613
6,2	63	101	10	010660620	2,613

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².

Serie corta - 118°
Short serie - 118°

Ø h8	l	L	pcs.	cod.	€ cad/each
6,25	63	101	10	010660625	2,613
6,3	63	101	10	010660630	2,613
6,4	63	101	10	010660640	2,613
6,5	63	101	10	010660650	2,613
6,6	63	101	10	010660660	3,158
6,7	63	101	10	010660670	3,158
6,75	69	109	10	010660675	3,158
6,8	69	109	10	010660680	3,158
6,9	69	109	10	010660690	3,158
7	69	109	10	010660700	3,158
7,1	69	109	5	010660710	3,705
7,2	69	109	5	010660720	3,705
7,25	69	109	5	010660725	3,705
7,3	69	109	5	010660730	3,705
7,4	69	109	5	010660740	3,705
7,5	69	109	5	010660750	3,705
7,6	75	117	5	010660760	4,670
7,7	75	117	5	010660770	4,670
7,75	75	117	5	010660775	4,670
7,8	75	117	5	010660780	4,670
7,9	75	117	5	010660790	4,670
8	75	117	5	010660800	4,670
8,1	75	117	5	010660810	5,065
8,2	75	117	5	010660820	5,065
8,25	75	117	5	010660825	5,065
8,3	75	117	5	010660830	5,065
8,4	75	117	5	010660840	5,065
8,5	75	117	5	010660850	5,065
8,6	81	125	5	010660860	5,897
8,7	81	125	5	010660870	5,897
8,75	81	125	5	010660875	5,897
8,8	81	125	5	010660880	5,897
8,9	81	125	5	010660890	5,897
9	81	125	5	010660900	5,897
9,1	81	125	5	010660910	6,415
9,2	81	125	5	010660920	6,415
9,25	81	125	5	010660925	6,415
9,3	81	125	5	010660930	6,415
9,4	81	125	5	010660940	6,415
9,5	81	125	5	010660950	6,415
9,6	87	133	5	010660960	7,582
9,7	87	133	5	010660970	7,582
9,75	87	133	5	010660975	7,582
9,8	87	133	5	010660980	7,582
9,9	87	133	5	010660990	7,582
10	87	133	5	010661000	7,582
10,1	87	133	5	010661010	8,454
10,2	87	133	5	010661020	8,454
10,25	87	133	5	010661025	8,454
10,3	87	133	5	010661030	8,454
10,4	87	133	5	010661040	8,454
10,5	87	133	5	010661050	8,454
10,6	87	133	5	010661060	9,494
10,7	94	142	5	010661070	9,494
10,75	94	142	5	010661075	9,494
10,8	94	142	5	010661080	9,494
10,9	94	142	5	010661090	9,494
11	94	142	5	010661100	9,494
11,1	94	142	5	010661110	10,339
11,2	94	142	5	010661120	10,339
11,25	94	142	5	010661125	10,339
11,3	94	142	5	010661130	10,339
11,4	94	142	5	010661140	10,339
11,5	94	142	5	010661150	10,339
11,6	94	142	5	010661160	11,927
11,7	94	142	5	010661170	11,927
11,75	94	142	5	010661175	11,927
11,8	94	142	5	010661180	11,927
11,9	101	151	5	010661190	11,927
12	101	151	5	010661200	11,927
12,1	101	151	5	010661210	13,044
12,2	101	151	5	010661220	13,044
12,25	101	151	5	010661225	13,044
12,3	101	151	5	010661230	13,044
12,4	101	151	5	010661240	13,044
12,5	101	151	5	010661250	13,044
12,6	101	151	5	010661260	14,136
12,7	101	151	5	010661270	14,136
12,75	101	151	5	010661275	14,136
12,8	101	151	5	010661280	14,136
12,9	101	151	5	010661290	14,136
13	101	151	5	010661300	14,136

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE EXTRA CORTA CON ANGOLO AL VERTICE DI 118°

Fully ground straight shank twist drills, stub serie

01022 **HSS-G** **DIN 1897 - 118° RETTIFICATA**

Ground from the solid

Serie extra corta - 118°

Stub serie - 118°

118° W 27°

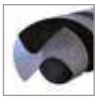
AISI M2
HV ≈ 820

<3 d



Confezione
Packaging





Ø h8	l	L	pcs.	cod.	€ cad/each
2,5	14	43	10	010220250	1,028
3	16	46	10	010220300	1,276
3,2	18	49	10	010220320	1,401
3,25	18	49	10	010220325	1,401
3,5	20	52	10	010220350	1,401
3,7	20	52	10	010220370	1,549
3,75	20	52	10	010220375	1,549
4	22	55	10	010220400	1,549
4,2	22	55	10	010220420	1,933
4,25	22	55	10	010220425	1,933
4,5	24	58	10	010220450	1,760
5	26	62	10	010220500	1,833
5,5	28	66	10	010220550	2,427
6	28	66	10	010220600	2,714

R ≤ 800 N/mm²

Applicazioni
Applications

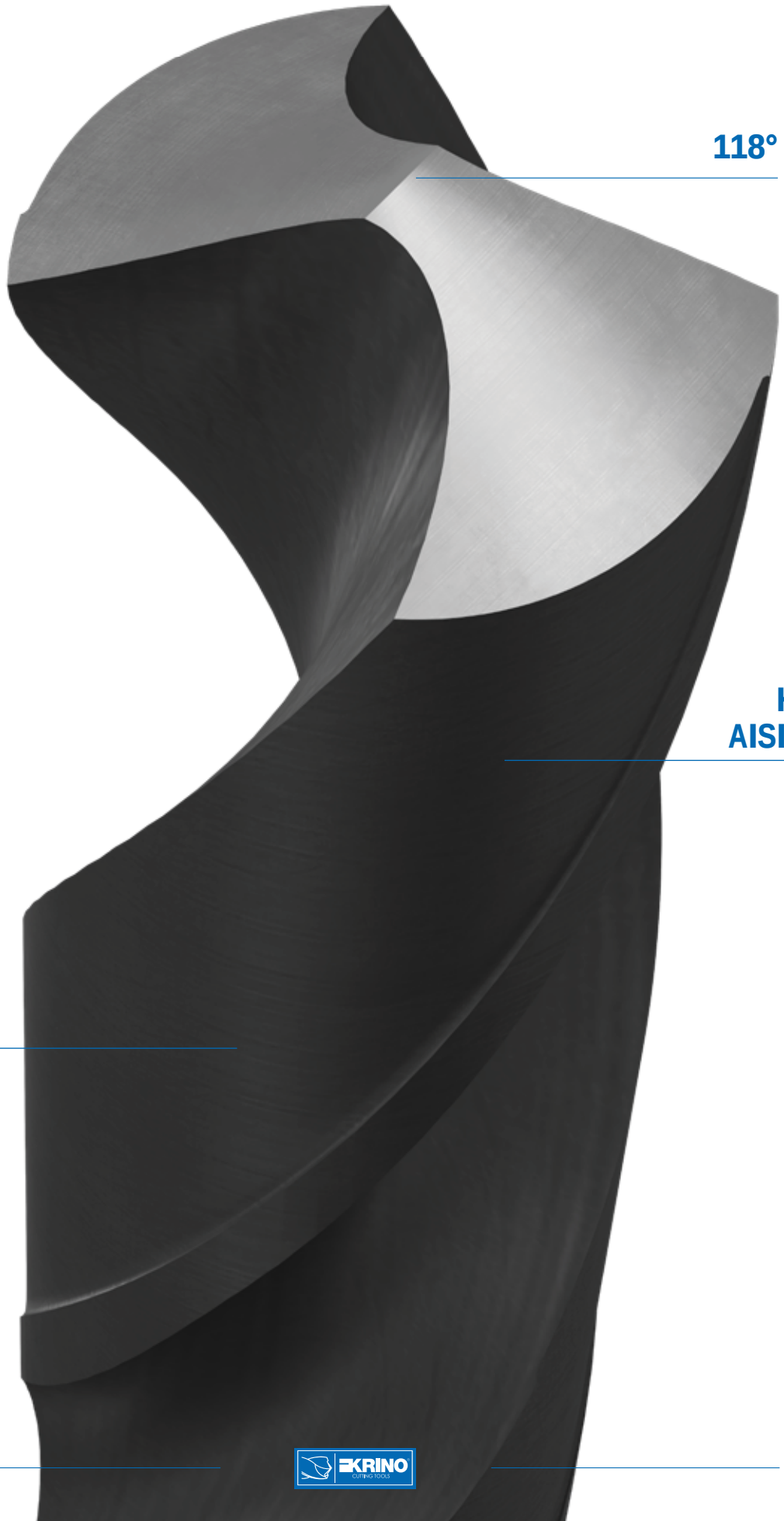
Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².


118°
HSS
AISI M2
W 27°

PUNTE ELICOIDALI CILINDRICHE “BASIC”, ESECUZIONE RETTIFICATA, SERIE CORTA, FINITURA LUCIDA

“Basic” fully ground straight shank twist drills

01350 **HSS-G** **DIN 338 RETTIFICATA**

Ground from the solid

Serie corta

Short serie

130° W 27°

HV = 750÷820
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

<5 d



Confezione
Packaging



R ≤ 700 N/mm²

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Art. 01351 Self
Disponibile su richiesta
On demand

Taglio dei materiali con R ≤ 700 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite.
Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 700 N/mm².

Ø h8	l	L	pcs.	cod.	€ cad/each
0,2	2,5	19	10	013500020	1,199
0,25	3	19	10	013500025	1,199
0,3	3	19	10	013500030	1,199
0,35	4	19	10	013500035	1,199
0,4	5	20	10	013500040	1,199
0,45	5	20	10	013500045	1,199
0,5	6	22	10	013500050	1,032
0,55	7	24	10	013500055	1,032
0,6	7	24	10	013500060	1,032
0,65	8	26	10	013500065	1,032
0,7	9	28	10	013500070	1,032
0,75	9	28	10	013500075	1,032
0,8	10	30	10	013500080	1,032
0,85	10	30	10	013500085	1,032
0,9	11	32	10	013500090	1,032
0,95	11	32	10	013500095	1,032
1	12	34	10	013500100	0,774
1,1	14	36	10	013500110	0,804
1,2	16	38	10	013500120	0,804
1,25	16	38	10	013500125	0,804
1,3	16	38	10	013500130	0,804
1,4	18	40	10	013500140	0,804
1,5	18	40	10	013500150	0,703
1,6	20	43	10	013500160	0,660
1,7	20	43	10	013500170	0,660
1,75	22	46	10	013500175	0,660
1,8	22	46	10	013500180	0,660
1,9	22	46	10	013500190	0,660
2	24	49	10	013500200	0,578
2,1	24	49	10	013500210	0,671
2,2	27	53	10	013500220	0,671
2,25	27	53	10	013500225	0,671
2,3	27	53	10	013500230	0,671
2,4	30	57	10	013500240	0,671
2,5	30	57	10	013500250	0,640
2,6	30	57	10	013500260	0,774
2,7	33	61	10	013500270	0,774
2,75	33	61	10	013500275	0,774
2,8	33	61	10	013500280	0,774
2,9	33	61	10	013500290	0,774
3	33	61	10	013500300	0,724
3,1	36	65	10	013500310	0,897
3,2	36	65	10	013500320	0,897
3,25	36	65	10	013500325	0,897
3,3	36	65	10	013500330	0,897
3,4	39	70	10	013500340	0,897
3,5	39	70	10	013500350	0,867
3,6	39	70	10	013500360	0,971
3,7	39	70	10	013500370	0,971
3,75	39	70	10	013500375	0,971
3,8	43	75	10	013500380	0,971
3,9	43	75	10	013500390	0,971
4	43	75	10	013500400	0,939
4,1	43	75	10	013500410	1,116
4,2	43	75	10	013500420	1,116
4,25	43	75	10	013500425	1,116
4,3	47	80	10	013500430	1,116
4,4	47	80	10	013500440	1,116
4,5	47	80	10	013500450	1,075
4,6	47	80	10	013500460	1,199
4,7	47	80	10	013500470	1,199
4,75	47	80	10	013500475	1,199
4,8	52	86	10	013500480	1,199
4,9	52	86	10	013500490	1,199
5	52	86	10	013500500	1,137
5,1	52	86	10	013500510	1,560
5,2	52	86	10	013500520	1,560
5,25	52	86	10	013500525	1,560
5,3	52	86	10	013500530	1,560
5,4	57	93	10	013500540	1,560
5,5	57	93	10	013500550	1,518
5,6	57	93	10	013500560	1,663
5,7	57	93	10	013500570	1,663
5,75	57	93	10	013500575	1,663
5,8	57	93	10	013500580	1,663
5,9	57	93	10	013500590	1,663
6	57	93	10	013500600	1,591
6,1	63	101	10	013500610	2,035
6,2	63	101	10	013500620	2,035
6,25	63	101	10	013500625	2,035
6,3	63	101	10	013500630	2,035
6,4	63	101	10	013500640	2,035
6,5	63	101	10	013500650	1,963
6,6	63	101	10	013500660	2,365
6,7	63	101	10	013500670	2,365
6,75	69	109	10	013500675	2,365
6,8	69	109	10	013500680	2,365
6,9	69	109	10	013500690	2,365
7	69	109	10	013500700	2,293
7,1	69	109	5	013500710	2,570
7,2	69	109	5	013500720	2,570
7,25	69	109	5	013500725	2,570
7,3	69	109	5	013500730	2,570
7,4	69	109	5	013500740	2,570
7,5	69	109	5	013500750	2,426
7,6	75	117	5	013500760	3,057
7,7	75	117	5	013500770	3,057
7,75	75	117	5	013500775	3,057
7,8	75	117	5	013500780	3,057
7,9	75	117	5	013500790	3,057
8	75	117	5	013500800	2,892
8,1	75	117	5	013500810	3,748
8,2	75	117	5	013500820	3,748
8,25	75	117	5	013500825	3,748
8,3	75	117	5	013500830	3,748
8,4	75	117	5	013500840	3,748
8,5	75	117	5	013500850	3,562
8,6	81	125	5	013500860	3,902
8,7	81	125	5	013500870	3,902
8,75	81	125	5	013500875	3,902
8,8	81	125	5	013500880	3,902
8,9	81	125	5	013500890	3,902
9	81	125	5	013500900	3,728
9,1	81	125	5	013500910	4,079
9,2	81	125	5	013500920	4,079
9,25	81	125	5	013500925	4,079
9,3	81	125	5	013500930	4,079
9,4	81	125	5	013500940	4,079
9,5	81	125	5	013500950	3,902
9,6	87	133	5	013500960	4,678
9,7	87	133	5	013500970	4,678
9,75	87	133	5	013500975	4,678
9,8	87	133	5	013500980	4,678
9,9	87	133	5	013500990	4,678
10	87	133	5	013501000	4,359
10,1	87	133	5	013501010	5,834

Serie corta
Short serie

Ø h8	l	L	pcs.	cod.	€ cad/each
10,2	87	133	5	013501020	**5,834**
10,25	87	133	5	013501025	**5,834**
10,3	87	133	5	013501030	**5,834**
10,4	87	133	5	013501040	**5,834**
10,5	87	133	5	013501050	**5,204**
10,6	87	133	5	013501060	**6,981**
10,7	94	142	5	013501070	**6,981**
10,75	94	142	5	013501075	**6,981**
10,8	94	142	5	013501080	**6,981**
10,9	94	142	5	013501090	**6,981**
11	94	142	5	013501100	**6,247**
11,1	94	142	5	013501110	**7,445**
11,2	94	142	5	013501120	**7,445**
11,25	94	142	5	013501125	**7,445**
11,3	94	142	5	013501130	**7,445**
11,4	94	142	5	013501140	**7,445**
11,5	94	142	5	013501150	**6,661**
11,6	94	142	5	013501160	**8,034**
11,7	94	142	5	013501170	**8,034**
11,75	94	142	5	013501175	**8,034**
11,8	94	142	5	013501180	**8,034**
11,9	101	151	5	013501190	**8,034**
12	101	151	5	013501200	**7,176**
12,1	101	151	5	013501210	**8,767**
12,2	101	151	5	013501220	**8,767**
12,25	101	151	5	013501225	**8,767**
12,3	101	151	5	013501230	**8,767**
12,4	101	151	5	013501240	**8,767**
12,5	101	151	5	013501250	**7,828**
12,6	101	151	5	013501260	**9,284**
12,7	101	151	5	013501270	**9,284**
12,75	101	151	5	013501275	**9,284**
12,8	101	151	5	013501280	**9,284**
12,9	101	151	5	013501290	**9,284**
13	101	151	5	013501300	**8,292**
13,1	101	151	3	013501310	**11,482**
13,2	101	151	3	013501320	**11,482**
13,25	108	160	3	013501325	**11,482**
13,3	108	160	3	013501330	**11,482**
13,4	108	160	3	013501340	**11,482**
13,5	108	160	3	013501350	**11,482**
13,6	108	160	3	013501360	**12,485**
13,7	108	160	3	013501370	**12,485**
13,75	108	160	3	013501375	**12,485**
13,8	108	160	3	013501380	**12,485**
13,9	108	160	3	013501390	**12,485**
14	108	160	3	013501400	**12,485**
14,1	108	160	3	013501410	**14,518**
14,2	114	169	3	013501420	**14,518**
14,25	114	169	3	013501425	**14,518**
14,3	114	169	3	013501430	**14,518**
14,4	114	169	3	013501440	**14,518**
14,5	114	169	3	013501450	**14,518**
14,6	114	169	3	013501460	**15,191**
14,7	114	169	3	013501470	**15,191**
14,75	114	169	3	013501475	**15,191**
14,8	114	169	3	013501480	**15,191**
14,9	114	169	3	013501490	**15,191**
15	114	169	3	013501500	**15,191**
15,1	120	178	3	013501510	**16,873**
15,2	120	178	3	013501520	**16,873**
15,25	120	178	3	013501525	**16,873**
15,3	120	178	3	013501530	**16,873**
15,4	120	178	3	013501540	**16,873**
15,5	120	178	3	013501550	**16,873**
15,6	120	178	3	013501560	**17,802**
15,7	120	178	3	013501570	**17,802**
15,75	120	178	3	013501575	**17,802**
15,8	120	178	3	013501580	**17,802**
15,9	120	178	3	013501590	**17,802**
16	120	178	3	013501600	**17,802**
16,25	125	184	1	013501625	**20,250**
16,5	125	184	1	013501650	**20,250**
16,75	125	184	1	013501675	**21,262**
17	125	184	1	013501700	**21,262**
17,25	130	191	1	013501725	**23,874**
17,5	130	191	1	013501750	**23,874**
17,75	130	191	1	013501775	**25,062**
18	130	191	1	013501800	**25,062**
18,25	135	198	1	013501825	**25,062**
18,5	135	198	1	013501850	**25,062**
18,75	135	198	1	013501875	**26,921**
19	135	198	1	013501900	**26,921**
19,25	140	205	1	013501925	**30,050**
19,5	140	205	1	013501950	**30,050**
19,75	140	205	1	013501975	**30,886**
20	140	205	1	013502000	**30,886**

PUNTE ELICOIDALI CILINDRICHE “BASIC”, CON CODOLO RIDOTTO, INTERAMENTE RETTIFICATE, FINITURA LUCIDA
Fully ground straight shank twist drills

01352 **HSS-G** **DIN 338 RETTIFICATA**
Ground from the solid

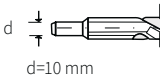
Codolo ridotto - 10mm
Reduced shank - 10mm





Confezione
Packaging





Ø h8	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	013521025	8,205
10,5	87	133	10	5	013521050	7,589
10,75	94	142	10	5	013521075	9,338
11	94	142	10	5	013521100	8,614
11,25	94	142	10	5	013521125	9,814
11,5	94	142	10	5	013521150	9,025
11,75	94	142	10	5	013521175	10,386
12	101	151	10	5	013521200	9,543
12,25	101	151	10	5	013521225	11,108
12,5	101	151	10	5	013521250	10,181
12,75	101	151	10	5	013521275	11,616
13	101	151	10	5	013521300	11,119
13,25	108	160	10	3	013521325	15,621
13,5	108	160	10	3	013521350	15,621
13,75	108	160	10	3	013521375	15,913
14	108	160	10	3	013521400	15,913
14,25	114	169	10	3	013521425	18,040
14,5	114	169	10	3	013521450	18,040
14,75	114	169	10	3	013521475	18,752
15	114	169	10	3	013521500	18,752
15,25	120	178	10	3	013521525	20,523
15,5	120	178	10	3	013521550	20,523
15,75	120	178	10	3	013521575	21,494
16	120	178	10	3	013521600	21,494
16,5	125	184	10	1	013521650	24,074
17	125	184	10	1	013521700	25,132
17,5	130	191	10	1	013521750	27,884
18	130	191	10	1	013521800	29,126
18,5	135	198	10	1	013521850	29,126
19	135	198	10	1	013521900	31,081
19,5	140	205	10	1	013521950	34,363
20	140	205	10	1	013522000	35,248

R ≤ 700 N/mm²

Applicazioni
Applications


Metalli
Metals

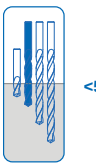

Acciaio
Steel


Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE “BASIC”, CON CODOLO RIDOTTO, INTERAMENTE RETTIFICATE, FINITURA LUCIDA
Fully ground straight shank twist drills

01354 **HSS-G** **DIN 338 RETTIFICATA**
Ground from the solid

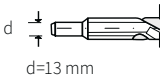
Codolo ridotto - 13mm
Reduced shank - 13mm





Confezione
Packaging





Ø h8	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	013541325	15,621
13,5	108	160	13	3	013541350	15,621
13,75	108	160	13	3	013541375	15,913
14	108	160	13	3	013541400	15,913
14,25	114	169	13	3	013541425	18,040
14,5	114	169	13	3	013541450	18,040
14,75	114	169	13	3	013541475	18,752
15	114	169	13	3	013541500	18,752
15,25	120	178	13	3	013541525	20,523
15,5	120	178	13	3	013541550	20,523
15,75	120	178	13	3	013541575	21,494
16	120	178	13	3	013541600	21,494
16,5	125	184	13	1	013541650	24,074
17	125	184	13	1	013541700	25,132
17,5	130	191	13	1	013541750	27,884
18	130	191	13	1	013541800	29,126
18,5	135	198	13	1	013541850	29,126
19	135	198	13	1	013541900	31,081
19,5	140	205	13	1	013541950	34,363
20	140	205	13	1	013542000	35,248
20,5	145	213	13	1	013542050	40,626
21	145	213	13	1	013542100	40,626
21,5	150	221	13	1	013542150	41,633
22	150	221	13	1	013542200	41,633
22,5	150	221	13	1	013542250	42,899
23	155	229	13	1	013542300	42,899
23,5	155	229	13	1	013542350	44,743
24	160	236	13	1	013542400	51,227
24,5	160	236	13	1	013542450	46,337
25	160	236	13	1	013542500	51,227

R ≤ 700 N/mm²

Applicazioni
Applications


Metalli
Metals


Acciaio
Steel


Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE “BASIC”, RETTIFICATE LUCIDE, SERIE EXTRA CORTA

Fully ground straight shank twist drills

01356 **HSS-G** **DIN 1897 RETTIFICATA**

Ground from the solid

Serie extra corta

Extra short serie



W 27°



HV = 750÷820
SPLIT POINT
DIN 1412C



<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
1,5	9	32	10	013560150	0,672
2	12	38	10	013560200	0,713
2,2	13	40	10	013560220	0,889
2,25	13	40	10	013560225	0,889
2,5	14	43	10	013560250	1,073
2,75	16	46	10	013560275	1,073
2,8	16	46	10	013560280	1,073
3	16	46	10	013560300	1,148
3,1	18	49	10	013560310	1,261
3,2	18	49	10	013560320	1,261
3,25	18	49	10	013560325	1,261
3,5	20	52	10	013560350	1,261
3,7	20	52	10	013560370	1,394
3,75	20	52	10	013560375	1,394
4	22	55	10	013560400	1,394
4,1	22	55	10	013560410	1,170
4,2	22	55	10	013560420	1,170
4,25	22	55	10	013560425	1,170
4,5	24	58	10	013560450	1,170
4,75	24	58	10	013560475	1,360
4,8	26	62	10	013560480	1,360
5	26	62	10	013560500	1,360
5,1	26	62	10	013560510	1,560
5,2	26	62	10	013560520	1,560
5,25	26	62	10	013560525	1,560
5,5	28	66	10	013560550	1,560
5,75	28	66	10	013560575	1,751
6	28	66	10	013560600	1,751
6,25	31	70	10	013560625	1,938
6,5	31	70	10	013560650	1,938
6,75	34	74	10	013560675	2,239
7	34	74	10	013560700	2,239
7,25	34	74	5	013560725	2,498
7,5	34	74	5	013560750	2,498
7,75	37	79	5	013560775	2,779
8	37	79	5	013560800	2,779
8,25	37	79	5	013560825	3,201
8,5	37	79	5	013560825	3,201
8,75	40	84	5	013560875	3,780
9	40	84	5	013560900	3,780
9,25	40	84	5	013560925	4,233
9,5	40	84	5	013560950	4,233
9,75	40	84	5	013560975	4,683
10	43	89	5	013561000	4,683
10,25	43	89	5	013561025	4,989
10,5	43	89	5	013561050	4,989
10,75	47	95	5	013561075	4,989
11	47	95	5	013561100	5,292
11,25	47	95	5	013561125	5,744
11,5	47	95	5	013561150	5,744
11,75	47	95	5	013561175	6,500
12	51	102	5	013561200	6,500
12,25	51	102	5	013561225	6,804
12,5	51	102	5	013561250	6,804
12,75	51	102	5	013561275	7,256
13	51	102	5	013561300	7,256

R ≤ 700 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE “BASIC”, RETTIFICATE LUCIDE, SERIE LUNGA

Long straight shank twist drills

01358 **HSS-G** **DIN 340 RETTIFICATA**

Ground from the solid

Serie lunga

Long serie

130° W 27°

HV≃ 750÷820
SPLIT POINT
DIN 1412C

<8 d

R ≤ 700 N/mm²

Applicazioni
Applications

Metalli *Metals*

Acciaio *Steel*

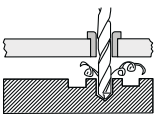
Emulsione *Lubrificant*



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
1	33	56	10	013580100	1,103
1,5	45	70	10	013580150	1,284
1,75	53	80	10	013580175	1,399
2	56	85	10	013580200	1,399
2,25	59	90	10	013580225	1,523
2,5	62	95	10	013580250	1,523
2,75	66	100	10	013580275	1,735
3	66	100	10	013580300	1,934
3,25	69	106	10	013580325	2,356
3,5	73	112	10	013580350	2,356
3,75	73	112	10	013580375	2,596
4	78	119	10	013580400	2,596
4,25	78	119	10	013580425	2,848
4,5	82	126	10	013580450	2,848
4,75	82	126	10	013580475	3,062
5	87	132	10	013580500	3,062
5,25	87	132	10	013580525	3,551
5,5	91	139	10	013580550	3,551
5,75	91	139	10	013580575	3,950
6	91	139	10	013580600	3,950
6,25	97	148	5	013580625	4,542
6,5	97	148	5	013580650	4,542
6,75	97	148	5	013580675	5,224
7	102	156	5	013580700	5,224
7,25	102	156	5	013580725	6,021
7,5	102	156	5	013580750	6,021
7,75	109	165	5	013580775	6,978
8	109	165	5	013580800	6,978
8,25	109	165	5	013580825	7,604
8,5	109	165	5	013580850	7,604
8,75	115	175	5	013580875	8,751
9	115	175	5	013580900	8,751
9,25	115	175	5	013580925	9,344
9,5	115	175	5	013580950	9,344
9,75	121	184	5	013580975	10,882
10	121	184	5	013581000	10,882
10,25	121	184	5	013581025	12,112
10,5	121	184	5	013581050	12,112
10,75	128	195	5	013581075	14,119
11	128	195	5	013581100	14,119
11,25	128	195	5	013581125	15,661
11,5	128	195	5	013581150	15,661
11,75	134	205	5	013581175	17,559
11,8	134	205	5	013581180	17,559
12	134	205	5	013581200	17,559
12,25	134	205	5	013581225	18,771
12,5	134	205	5	013581250	18,771
12,75	134	205	5	013581275	19,558
13	134	205	5	013581300	19,558
13,5	140	214	3	013581350	21,486
14	140	214	3	013581400	24,642
14,5	144	220	3	013581450	27,152
15	144	220	3	013581500	28,868
15,5	149	227	3	013581550	29,513
16	149	227	3	013581600	30,608
16,5	154	235	1	013581650	33,385
17	154	235	1	013581700	34,401
17,5	158	241	1	013581750	37,754
18	158	241	1	013581800	40,642
18,5	162	247	1	013581850	42,822
19	162	247	1	013581900	45,632
19,5	166	254	1	013581950	47,733
20	166	254	1	013582000	50,645



PUNTE ELICOIDALI CILINDRICHE RETTIFICATE, QUALITÀ STANDARD, FINITURA BLACK & WHITE

Standard fully ground straight shank drills with black & white finish

01080 **HSS-G** **DIN 338 RETTIFICATA**

Ground from the solid

Serie corta

Short serie

130° W 27°

HV = 750÷820
SPLIT POINT
DIN 1412C

<5 d

R ≤ 650 N/mm²



Confezione
Packaging



Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Art. 01081 Self
Disponibile su richiesta
On demand

Taglio del ferro, acciaio, metalli in genere con R ≤ 650 N/mm².

For drilling in iron, steel, metals up to R ≤ 650 N/mm².

Ø	l	L	pcs.	cod.	€ cad/each
1	12	34	10	010800100	0,601
1,1	14	36	10	010800110	0,642
1,2	16	38	10	010800120	0,642
1,25	16	38	10	010800125	0,642
1,3	16	38	10	010800130	0,601
1,4	18	40	10	010800140	0,601
1,5	18	40	10	010800150	0,601
1,6	20	43	10	010800160	0,642
1,7	20	43	10	010800170	0,642
1,75	22	46	10	010800175	0,642
1,8	22	46	10	010800180	0,590
1,9	22	46	10	010800190	0,590
2	24	49	10	010800200	0,590
2,1	24	49	10	010800210	0,684
2,2	27	53	10	010800220	0,684
2,25	27	53	10	010800225	0,684
2,3	27	53	10	010800230	0,632
2,4	30	57	10	010800240	0,632
2,5	30	57	10	010800250	0,632
2,6	30	57	10	010800260	0,684
2,7	33	61	10	010800270	0,684
2,75	33	61	10	010800275	0,684
2,8	33	61	10	010800280	0,642
2,9	33	61	10	010800290	0,642
3	33	61	10	010800300	0,642
3,1	36	65	10	010800310	0,853
3,2	36	65	10	010800320	0,853
3,25	36	65	10	010800325	0,853
3,3	36	65	10	010800330	0,789
3,4	39	70	10	010800340	0,789
3,5	39	70	10	010800350	0,789
3,6	39	70	10	010800360	0,915
3,7	39	70	10	010800370	0,915
3,75	39	70	10	010800375	0,915
3,8	43	75	10	010800380	0,873
3,9	43	75	10	010800390	0,873
4	43	75	10	010800400	0,873
4,1	43	75	10	010800410	0,990
4,2	43	75	10	010800420	0,990
4,25	43	75	10	010800425	0,990
4,3	47	80	10	010800430	0,937
4,4	47	80	10	010800440	0,937
4,5	47	80	10	010800450	0,937
4,6	47	80	10	010800460	1,052
4,7	47	80	10	010800470	1,052
4,75	47	80	10	010800475	1,052
4,8	52	86	10	010800480	0,959
4,9	52	86	10	010800490	0,959
5	52	86	10	010800500	0,959
5,1	52	86	10	010800510	1,411
5,2	52	86	10	010800520	1,411
5,25	52	86	10	010800525	1,411
5,3	52	86	10	010800530	1,274
5,4	57	93	10	010800540	1,274
5,5	57	93	10	010800550	1,274
5,6	57	93	10	010800560	1,485
5,7	57	93	10	010800570	1,485
5,75	57	93	10	010800575	1,485
5,8	57	93	10	010800580	1,348
5,9	57	93	10	010800590	1,348
6	57	93	10	010800600	1,348
6,1	63	101	10	010800610	1,674
6,2	63	101	10	010800620	1,674

Ø	l	L	pcs.	cod.	€ cad/each
6,25	63	101	10	010800625	**1,674**
6,3	63	101	10	010800630	**1,518**
6,4	63	101	10	010800640	**1,518**
6,5	63	101	10	010800650	**1,518**
6,6	63	101	10	010800660	**1,717**
6,7	63	101	10	010800670	**1,717**
6,75	69	109	10	010800675	**1,717**
6,8	69	109	10	010800680	**1,685**
6,9	69	109	10	010800690	**1,685**
7	69	109	10	010800700	**1,685**
7,1	69	109	5	010800710	**2,255**
7,2	69	109	5	010800720	**2,255**
7,25	69	109	5	010800725	**2,255**
7,3	69	109	5	010800730	**2,064**
7,4	69	109	5	010800740	**2,064**
7,5	69	109	5	010800750	**2,064**
7,6	75	117	5	010800760	**2,422**
7,7	75	117	5	010800770	**2,422**
7,75	75	117	5	010800775	**2,422**
7,8	75	117	5	010800780	**2,223**
7,9	75	117	5	010800790	**2,223**
8	75	117	5	010800800	**2,223**
8,1	75	117	5	010800810	**3,338**
8,2	75	117	5	010800820	**3,338**
8,25	75	117	5	010800825	**3,338**
8,3	75	117	5	010800830	**3,033**
8,4	75	117	5	010800840	**3,033**
8,5	75	117	5	010800850	**3,033**
8,6	81	125	5	010800860	**3,581**
8,7	81	125	5	010800870	**3,581**
8,75	81	125	5	010800875	**3,581**
8,8	81	125	5	010800880	**3,233**
8,9	81	125	5	010800890	**3,233**
9	81	125	5	010800900	**3,233**
9,1	81	125	5	010800910	**3,761**
9,2	81	125	5	010800920	**3,761**
9,25	81	125	5	010800925	**3,761**
9,3	81	125	5	010800930	**3,403**
9,4	81	125	5	010800940	**3,403**
9,5	81	125	5	010800950	**3,403**
9,6	87	133	5	010800960	**3,981**
9,7	87	133	5	010800970	**3,981**
9,75	87	133	5	010800975	**3,981**
9,8	87	133	5	010800980	**3,614**
9,9	87	133	5	010800990	**3,614**
10	87	133	5	010801000	**3,614**
10,25	87	133	5	010801025	**4,560**
10,5	87	133	5	010801050	**4,149**
10,75	94	142	5	010801075	**4,751**
11	94	142	5	010801100	**4,382**
11,25	94	142	5	010801125	**5,129**
11,5	94	142	5	010801150	**4,635**
11,75	94	142	5	010801175	**5,519**
12	101	151	5	010801200	**5,192**
12,25	101	151	5	010801225	**6,026**
12,5	101	151	5	010801250	**5,718**
12,75	101	151	5	010801275	**7,753**
13	101	151	5	010801300	**7,005**
13,25	108	160	3	010801325	**12,419**
13,5	108	160	3	010801350	**12,419**
13,75	108	160	3	010801375	**12,756**
14	108	160	3	010801400	**12,756**
14,25	114	169	3	010801425	**14,705**
14,5	114	169	3	010801450	**14,705**
14,75	114	169	3	010801475	**17,328**
15	114	169	3	010801500	**17,328**
15,25	120	178	3	010801525	**18,970**
15,5	120	178	3	010801550	**18,970**
15,75	120	178	3	010801575	**19,865**
16	120	178	3	010801600	**19,865**
16,5	125	184	1	010801650	**22,245**
17	125	184	1	010801700	**23,225**
17,5	130	191	1	010801750	**25,774**
18	130	191	1	010801800	**26,922**
18,5	135	198	1	010801850	**26,922**
19	135	198	1	010801900	**28,733**
19,5	140	205	1	010801950	**31,768**
20	140	205	1	010802000	**32,580**

PUNTE ELICOIDALI CILINDRICHE ELICOIDALI, QUALITA' STANDARD, CODOLO RIDOTTO, FINITURA BLACK & WHITE

Standard fully ground straight shank drills with black & white finish

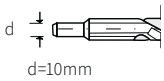
01082 HSS-G DIN 338 RETTIFICATA

Ground from the solid

Codolo ridotto - 10mm

Reduced shank - 10mm





d=10mm



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	010821025	6,660
10,5	87	133	10	5	010821050	6,232
10,75	94	142	10	5	010821075	6,863
11	94	142	10	5	010821100	6,470
11,25	94	142	10	5	010821125	7,268
11,5	94	142	10	5	010821150	6,751
11,75	94	142	10	5	010821175	7,707
12	101	151	10	5	010821200	7,337
12,25	101	151	10	5	010821225	6,807
12,5	101	151	10	5	010821250	7,910
12,75	101	151	10	5	010821275	10,070
13	101	151	10	5	010821300	9,271
13,25	101	151	10	3	010821325	16,302
13,5	108	160	10	3	010821350	16,302
13,75	108	160	10	3	010821375	16,675
14	108	160	10	3	010821400	16,675
14,25	114	169	10	3	010821425	18,755
14,5	114	169	10	3	010821450	18,755
14,75	114	169	10	3	010821475	21,557
15	114	169	10	3	010821500	21,557
15,25	120	178	10	3	010821525	23,301
15,5	120	178	10	3	010821550	23,301
15,75	120	178	10	3	010821575	24,268
16	120	178	10	3	010821600	24,268
16,5	125	184	10	1	010821650	26,812
17	125	184	10	1	010821700	27,858
17,5	130	191	10	1	010821750	30,569
18	130	191	10	1	010821800	31,795
18,5	135	198	10	1	010821850	31,795
19	135	198	10	1	010821900	33,730
19,5	140	205	10	1	010821950	36,970
20	140	205	10	1	010822000	37,847

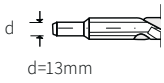
01084 HSS-G DIN 338 RETTIFICATA

Ground from the solid

Codolo ridotto - 13mm

Reduced shank- 13mm





d=13mm



Confezione
Packaging



Ø	l	L	d	pcs.	cod.	€ cad/each
13,25	101	151	13	3	010841325	16,302
13,5	108	160	13	3	010841350	16,302
13,75	108	160	13	3	010841375	16,675
14	108	160	13	3	010841400	16,675
14,25	114	169	13	3	010841425	18,755
14,5	114	169	13	3	010841450	18,755
14,75	114	169	13	3	010841475	21,557
15	114	169	13	3	010841500	21,557
15,25	120	178	13	3	010841525	23,301
15,5	120	178	13	3	010841550	23,301
15,75	120	178	13	3	010841575	24,268
16	120	178	13	3	010841600	24,268
16,5	125	184	13	1	010841650	26,812
17	125	184	13	1	010841700	27,858
17,5	130	191	13	1	010841750	30,569
18	130	191	13	1	010841800	31,795
18,5	135	198	13	1	010841850	31,795
19	135	198	13	1	010841900	33,730
19,5	140	205	13	1	010841950	36,970
20	140	205	13	1	010842000	37,847

PUNTE ELICOIDALI CILINDRICHE ELICOIDALI, QUALITA' STANDARD, FINITURA BLACK & WHITE

Standard fully ground straight shank drills with black & white finish

01087 HSS-G DIN 1897

Ground from the solid

Serie corta
Short serie

130° W 27°

HV= 750÷820
SPLIT POINT
DIN 1412C

<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
3	16	46	10	010870300	0,731
3,25	18	49	10	010870325	0,970
3,5	20	52	10	010870350	0,897
3,75	20	52	10	010870375	1,040
4	22	55	10	010870400	0,993
4,25	22	55	10	010870425	1,125
4,5	24	58	10	010870450	1,065
4,75	24	58	10	010870475	1,089
5	26	62	10	010870500	1,089
5,25	26	62	10	010870525	1,161
5,5	28	66	10	010870550	1,447
5,75	28	66	10	010870575	1,531
6	28	66	10	010870600	1,531



01086 HSS-G DIN 340

Ground from the solid

Serie lunga
Long serie

130° W 27°

HV= 750÷820
SPLIT POINT
DIN 1412C

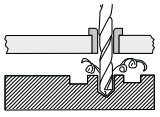
<8 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
3	66	100	10	010860300	1,281
3,25	69	106	10	010860325	1,628
3,5	73	112	10	010860350	1,628
3,75	73	112	10	010860375	1,712
4	78	119	10	010860400	1,712
4,25	78	119	10	010860425	2,346
4,5	82	126	10	010860450	2,346
4,75	82	126	10	010860475	2,382
5	87	132	10	010860500	2,382
5,25	87	132	10	010860525	2,716
5,5	91	139	10	010860550	2,716
5,75	91	139	10	010860575	2,776
6	91	139	10	010860600	2,776
6,5	97	148	5	010860650	3,603
7	102	156	5	010860700	3,674
7,5	102	156	5	010860750	4,250
8	109	165	5	010860800	4,729
8,5	109	165	5	010860850	7,134
9	115	175	5	010860900	7,170
9,5	115	175	5	010860950	8,020
10	121	184	5	010861000	8,091



PUNTE ELICOIDALI CILINDRICHE, SERIE CORTA, ESECUZIONE RULLATA

Rolled straight shank twist drills

01001 | **HSS-R** | **DIN 338** | **ESECUZIONE RULLATA** Rolled | **Serie corta** *Short serie*

118° W 27°

HV= 750÷820

<5 d

R ≤ 650 N/mm²



Confezione *Packaging*



Applicazioni *Applications*

- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

Art. 01002 Self
Disponibile su richiesta
On demand

Per forare: tutti i metalli, ferro, acciaio etc...

For drilling in: iron, steel, metals...

Ø	l	L	pcs.	cod.	€ cad/each
0,3	3	19	10	010010030	1,313
0,35	4	19	10	010010035	1,165
0,4	5	20	10	010010040	1,165
0,45	5	20	10	010010045	1,165
0,5	6	22	10	010010050	0,963
0,55	7	24	10	010010055	1,165
0,6	7	24	10	010010060	0,963
0,65	8	26	10	010010065	0,937
0,7	9	28	10	010010070	0,813
0,75	9	28	10	010010075	0,813
0,8	10	30	10	010010080	0,813
0,85	10	30	10	010010085	0,850
0,9	11	32	10	010010090	0,888
0,95	11	32	10	010010095	0,850
1	12	34	10	010010100	0,539
1,1	14	36	10	010010110	0,539
1,2	16	38	10	010010120	0,539
1,25	16	38	10	010010125	0,539
1,3	16	38	10	010010130	0,501
1,4	18	40	10	010010140	0,501
1,5	18	40	10	010010150	0,376
1,6	20	43	10	010010160	0,426
1,7	20	43	10	010010170	0,426
1,75	22	46	10	010010175	0,426
1,8	22	46	10	010010180	0,426
1,9	22	46	10	010010190	0,426
2	24	49	10	010010200	0,389
2,1	24	49	10	010010210	0,437
2,2	27	53	10	010010220	0,437
2,25	27	53	10	010010225	0,437
2,3	27	53	10	010010230	0,437
2,4	30	57	10	010010240	0,437
2,5	30	57	10	010010250	0,420
2,6	30	57	10	010010260	0,500
2,7	33	61	10	010010270	0,500
2,75	33	61	10	010010275	0,500
2,8	33	61	10	010010280	0,500
2,9	33	61	10	010010290	0,500
3	33	61	10	010010300	0,460
3,1	36	65	10	010010310	0,539
3,2	36	65	10	010010320	0,539
3,25	36	65	10	010010325	0,539
3,3	36	65	10	010010330	0,539
3,4	39	70	10	010010340	0,539
3,5	39	70	10	010010350	0,501
3,6	39	70	10	010010360	0,613
3,7	39	70	10	010010370	0,613
3,75	39	70	10	010010375	0,613
3,8	43	75	10	010010380	0,613
3,9	43	75	10	010010390	0,613
4	43	75	10	010010400	0,549
4,1	43	75	10	010010410	0,688
4,2	43	75	10	010010420	0,688
4,25	43	75	10	010010425	0,688
4,3	47	80	10	010010430	0,688
4,4	47	80	10	010010440	0,688
4,5	47	80	10	010010450	0,613
4,6	47	80	10	010010460	0,786
4,7	47	80	10	010010470	0,786
4,75	47	80	10	010010475	0,786
4,8	52	86	10	010010480	0,786
4,9	52	86	10	010010490	0,786
5	52	86	10	010010500	0,712
5,1	52	86	10	010010510	0,973
5,2	52	86	10	010010520	0,973
5,25	52	86	10	010010525	0,973
5,3	52	86	10	010010530	0,973
5,4	57	93	10	010010540	0,973
5,5	57	93	10	010010550	0,888
5,6	57	93	10	010010560	1,001
5,7	57	93	10	010010570	1,001
5,75	57	93	10	010010575	1,001
5,8	57	93	10	010010580	1,001
5,9	57	93	10	010010590	1,001
6	57	93	10	010010600	0,925
6,1	63	101	10	010010610	1,225
6,2	63	101	10	010010620	1,225
6,25	63	101	10	010010625	1,225
6,3	63	101	10	010010630	1,225
6,4	63	101	10	010010640	1,225
6,5	63	101	10	010010650	1,113
6,6	63	101	10	010010660	1,438
6,7	63	101	10	010010670	1,438
6,75	69	109	10	010010675	1,438
6,8	69	109	10	010010680	1,438
6,9	69	109	10	010010690	1,438
7	69	109	10	010010700	1,313
7,1	69	109	5	010010710	1,562
7,2	69	109	5	010010720	1,562
7,25	69	109	5	010010725	1,562
7,3	69	109	5	010010730	1,562
7,4	69	109	5	010010740	1,562
7,5	69	109	5	010010750	1,438
7,6	75	117	5	010010760	1,936
7,7	75	117	5	010010770	1,936
7,75	75	117	5	010010775	1,936
7,8	75	117	5	010010780	1,936
7,9	75	117	5	010010790	1,936
8	75	117	5	010010800	1,824
8,1	75	117	5	010010810	2,075
8,2	75	117	5	010010820	2,075
8,25	75	117	5	010010825	2,075
8,3	75	117	5	010010830	2,075
8,4	75	117	5	010010840	2,075
8,5	75	117	5	010010850	1,888
8,6	81	125	5	010010860	2,376
8,7	81	125	5	010010870	2,376
8,75	81	125	5	010010875	2,376
8,8	81	125	5	010010880	2,376
8,9	81	125	5	010010890	2,376
9	81	125	5	010010900	2,164
9,1	81	125	5	010010910	2,687
9,2	81	125	5	010010920	2,687
9,25	81	125	5	010010925	2,687
9,3	81	125	5	010010930	2,687
9,4	81	125	5	010010940	2,687
9,5	81	125	5	010010950	2,425
9,6	87	133	5	010010960	2,999
9,7	87	133	5	010010970	2,999
9,75	87	133	5	010010975	2,999
9,8	87	133	5	010010980	2,999
9,9	87	133	5	010010990	2,999
10	87	133	5	010011000	2,788
10,1	87	133	5	010011010	4,263
10,2	87	133	5	010011020	4,263
10,25	87	133	5	010011025	3,527

Serie corta
Short serie

Ø	l	L	pcs.	cod.	€ cad/each
10,3	87	133	5	010011030	**4,263**
10,4	87	133	5	010011040	**4,263**
10,5	87	133	5	010011050	**3,213**
10,6	87	133	5	010011060	**4,874**
10,7	94	142	5	010011070	**4,874**
10,75	94	142	5	010011075	**4,088**
10,8	94	142	5	010011080	**4,874**
10,9	94	142	5	010011090	**4,874**
11	94	142	5	010011100	**3,687**
11,1	94	142	5	010011110	**5,300**
11,2	94	142	5	010011120	**5,300**
11,25	94	142	5	010011125	**4,413**
11,3	94	142	5	010011130	**5,300**
11,4	94	142	5	010011140	**5,300**
11,5	94	142	5	010011150	**4,000**
11,6	94	142	5	010011160	**5,664**
11,7	94	142	5	010011170	**5,664**
11,75	94	142	5	010011175	**4,725**
11,8	94	142	5	010011180	**5,664**
11,9	101	151	5	010011190	**5,664**
12	101	151	5	010011200	**4,325**
12,1	101	151	5	010011210	**6,214**
12,2	101	151	5	010011220	**6,214**
12,25	101	151	5	010011225	**5,176**
12,3	101	151	5	010011230	**6,214**
12,4	101	151	5	010011240	**6,214**
12,5	101	151	5	010011250	**4,738**
12,6	101	151	5	010011260	**6,513**
12,7	101	151	5	010011270	**6,513**
12,75	101	151	5	010011275	**5,436**
12,8	101	151	5	010011280	**6,513**
12,9	101	151	5	010011290	**6,513**
13	101	151	5	010011300	**5,025**
13,25	108	160	3	010011325	**7,338**
13,5	108	160	3	010011350	**6,801**
13,75	108	160	3	010011375	**7,338**
14	108	160	3	010011400	**6,801**
14,25	114	169	3	010011425	**8,313**
14,5	114	169	3	010011450	**7,614**
14,75	114	169	3	010011475	**10,849**
15	114	169	3	010011500	**9,864**
15,25	120	178	3	010011525	**12,212**
15,5	120	178	3	010011550	**11,101**
15,75	120	178	3	010011575	**13,414**
16	120	178	3	010011600	**12,201**
16,25	125	184	1	010011625	**15,525**
16,5	125	184	1	010011650	**12,901**
16,75	125	184	1	010011675	**15,525**
17	125	184	1	010011700	**12,901**
17,25	130	191	1	010011725	**16,850**
17,5	130	191	1	010011750	**14,039**
17,75	130	191	1	010011775	**16,850**
18	130	191	1	010011800	**15,427**
18,25	135	198	1	010011825	**19,765**
18,5	135	198	1	010011850	**16,463**
18,75	135	198	1	010011875	**19,765**
19	135	198	1	010011900	**16,463**
19,25	140	205	1	010011925	**23,051**
19,5	140	205	1	010011950	**19,239**
19,75	140	205	1	010011975	**23,051**
20	140	205	1	010012000	**19,239**
20,5	145	213	1	010012050	**21,802**
21	145	213	1	010012100	**23,815**
21,5	150	221	1	010012150	**25,654**
22	150	221	1	010012200	**26,839**
22,5	150	221	1	010012250	**27,353**
23	155	229	1	010012300	**29,551**
23,5	155	229	1	010012350	**35,153**
24	160	236	1	010012400	**36,040**
24,5	160	236	1	010012450	**36,616**
25	160	236	1	010012500	**37,491**

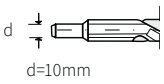
PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO, ESECUZIONE RULLATA
Reduced shank twist drills

01003 **HSS-R** **DIN 338** **ESECUZIONE RULLATA**
Rolled

Codolo ridotto - 10mm
Reduced shank - 10mm







d=10mm

Confezione
Packaging



Ø	l	L	d	pcs.	cod.	€ cad/each
10,25	87	133	10	5	010031025	5,369
10,5	87	133	10	5	010031050	4,537
10,75	94	142	10	5	010031075	6,039
11	94	142	10	5	010031100	5,015
11,25	94	142	10	5	010031125	6,392
11,5	94	142	10	5	010031150	5,308
11,75	94	142	10	5	010031175	6,746
12	101	151	10	5	010031200	5,636
12,25	101	151	10	5	010031225	7,251
12,5	101	151	10	5	010031250	6,065
12,75	101	151	10	5	010031275	7,821
13	101	151	10	5	010031300	6,506
13,25	108	160	10	3	010031325	10,107
13,5	108	160	10	3	010031350	8,401
13,75	108	160	10	3	010031375	10,107
14	108	160	10	3	010031400	8,401
14,25	114	169	10	3	010031425	10,891
14,5	114	169	10	3	010031450	9,361
14,75	114	169	10	3	010031475	12,494
15	114	169	10	3	010031500	11,498
15,25	120	178	10	3	010031525	14,402
15,5	120	178	10	3	010031550	12,584
15,75	120	178	10	3	010031575	14,402
16	120	178	10	3	010031600	13,859
16,25	125	184	10	1	010031625	16,764
16,5	125	184	10	1	010031650	14,580
16,75	125	184	10	1	010031675	16,764
17	125	184	10	1	010031700	14,580
17,25	125	184	10	1	010031725	18,054
17,5	130	191	10	1	010031750	15,705
17,75	130	191	10	1	010031775	18,054
18	130	191	10	1	010031800	15,705
18,25	130	191	10	1	010031825	20,835
18,5	135	198	10	1	010031850	18,117
18,75	135	198	10	1	010031875	20,835
19	135	198	10	1	010031900	18,117
19,25	135	198	10	1	010031925	23,967
19,5	140	205	10	1	010031950	20,835
19,75	140	205	10	1	010031975	23,967
20	140	205	10	1	010032000	20,835

R ≤ 650 N/mm²

Applicazioni
Applications


Metalli
Metals


Acciaio
Steel


Emulsione
Lubrificant


Art. 01005 Self
Disponibile su richiesta
On demand

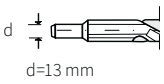
PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO, ESECUZIONE RULLATA
Reduced shank twist drills

01004 **HSS-R** **DIN 338** **ESECUZIONE RULLATA**
Rolled

Codolo ridotto - 13mm
Reduced shank - 13mm







Confezione
Packaging



Ø	l	L	d	pcs.	cod.	€ cad/each
13,25	108	160	13	3	010041325	10,107
13,5	108	160	13	3	010041350	8,401
13,75	108	160	13	3	010041375	10,107
14	108	160	13	3	010041400	8,401
14,25	114	169	13	3	010041425	10,891
14,5	114	169	13	3	010041450	9,361
14,75	114	169	13	3	010041475	12,494
15	114	169	13	3	010041500	11,498
15,25	120	178	13	3	010041525	14,402
15,5	120	178	13	3	010041550	12,584
15,75	120	178	13	3	010041575	14,402
16	120	178	13	3	010041600	13,859
16,25	125	184	13	1	010041625	16,764
16,5	125	184	13	1	010041650	14,580
16,75	125	184	13	1	010041675	16,764
17	125	184	13	1	010041700	14,580
17,25	130	191	13	1	010041725	18,054
17,5	130	191	13	1	010041750	15,705
17,75	130	191	13	1	010041775	18,054
18	130	191	13	1	010041800	15,705
18,25	135	198	13	1	010041825	20,835
18,5	135	198	13	1	010041850	18,117
18,75	135	198	13	1	010041875	20,835
19	135	198	13	1	010041900	18,117
19,25	140	205	13	1	010041925	23,967
19,5	140	205	13	1	010041950	20,835
19,75	140	205	13	1	010041975	23,967
20	140	205	13	1	010042000	20,835
20,5	145	213	13	1	010042050	28,793
21	145	213	13	1	010042100	31,003
21,5	150	221	13	1	010042150	33,025
22	150	221	13	1	010042200	34,326
22,5	150	221	13	1	010042250	34,882
23	155	229	13	1	010042300	37,322
23,5	155	229	13	1	010042350	43,462
24	160	236	13	1	010042400	44,423
24,5	160	236	13	1	010042450	45,065
25	160	236	13	1	010042500	46,039

R ≤ 650 N/mm²

Applicazioni
Applications


Metalli
Metals


Acciaio
Steel


Emulsione
Lubrificant


Art. 01005 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI CILINDRICHE SERIE EXTRA CORTA, ESECUZIONE RULLATA

Straight shank twist drills-stub serie

01018 **HSS-R** **DIN 1897 ESECUZIONE RULLATA**

Rolled

Serie extra corta

Extra short serie

118° W 27°

HV= 750÷820

<3 d



Confezione
Packaging



Ø	l	L	pcs.	cod.	€ cad/each
2	12	38	10	010180200	0,516
2,2	13	40	10	010180220	0,542
2,25	13	40	10	010180225	0,542
2,5	14	43	10	010180250	0,542
2,75	16	46	10	010180275	0,556
2,8	16	46	10	010180280	0,556
3	16	46	10	010180300	0,556
3,2	18	49	10	010180320	0,632
3,25	18	49	10	010180325	0,632
3,3	18	49	10	010180330	0,632
3,5	20	52	10	010180350	0,632
3,75	20	52	10	010180375	0,697
3,8	22	55	10	010180380	0,697
4	22	55	10	010180400	0,697
4,2	22	55	10	010180420	0,824
4,25	22	55	10	010180425	0,824
4,5	24	58	10	010180450	0,824
4,75	24	58	10	010180475	0,955
4,8	26	62	10	010180480	0,955
5	26	62	10	010180500	0,955
5,2	26	62	10	010180520	1,186
5,25	26	62	10	010180525	1,186
5,5	28	66	10	010180550	1,186
5,75	28	66	10	010180575	1,201
5,8	28	66	10	010180580	1,201
6	28	66	10	010180600	1,201
6,5	31	70	5	010180650	1,575
7	34	74	5	010180700	1,781
7,5	34	74	5	010180750	2,037
8	37	79	5	010180800	2,593
8,5	37	79	5	010180850	2,942
9	40	84	5	010180900	3,432
9,5	40	84	5	010180950	3,728
10	43	89	5	010181000	4,657

R ≤ 650 N/mm²

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Art. 01019 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI CILINDRICHE SERIE LUNGA, ESECUZIONE RULLATA

Straight shank twist drills, long serie

01020 **HSS-R** **DIN 340** **ESECUZIONE RULLATA**
Rolled

Serie lunga
Long serie

118° **W 27°**

HV = 750÷820

<8 d



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

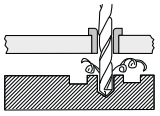
Emulsione
Lubrificant

Art. 01021 Self
Disponibile su richiesta
On demand

Per forare: tutti i metalli, ferro, acciaio etc...

For drilling in: iron, steel, metals...

Ø	l	L	pcs.	cod.	€ cad/each
1,5	45	70	10	010200150	1,954
1,75	53	80	10	010200175	1,515
2	56	85	10	010200200	1,515
2,2	59	90	10	010200220	1,608
2,25	59	90	10	010200225	1,608
2,5	62	95	10	010200250	1,608
2,75	66	100	10	010200275	1,648
2,8	66	100	10	010200280	1,648
3	66	100	10	010200300	1,648
3,2	69	106	10	010200320	1,915
3,25	69	106	10	010200325	1,915
3,5	73	112	10	010200350	1,915
3,75	73	112	10	010200375	2,100
3,8	78	119	10	010200380	2,100
4	78	119	10	010200400	2,100
4,2	78	119	10	010200420	2,485
4,25	78	119	10	010200425	2,485
4,5	82	126	10	010200450	2,485
4,75	82	126	10	010200475	2,647
4,8	87	132	10	010200480	2,647
5	87	132	10	010200500	2,647
5,2	87	132	10	010200520	3,311
5,25	87	132	10	010200525	3,311
5,5	91	139	10	010200550	3,311
5,75	91	139	10	010200575	3,565
5,8	91	139	10	010200580	3,565
6	91	139	10	010200600	3,565
6,25	97	148	5	010200625	4,282
6,5	97	148	5	010200650	4,282
6,75	97	148	5	010200675	5,027
7	102	156	5	010200700	5,027
7,25	102	156	5	010200725	5,411
7,5	102	156	5	010200750	5,411
7,75	109	165	5	010200775	6,077
8	109	165	5	010200800	6,077
8,25	109	165	5	010200825	6,649
8,5	109	165	5	010200850	6,649
8,75	115	175	5	010200875	7,075
9	115	175	5	010200900	7,075
9,25	115	175	5	010200925	7,195
9,5	115	175	5	010200950	7,195
9,75	121	184	5	010200975	8,313
10	121	184	5	010201000	8,313
10,5	121	184	5	010201050	10,653
11	128	195	5	010201100	11,491
11,5	128	195	5	010201150	11,902
12	134	205	5	010201200	13,020
12,5	134	205	5	010201250	13,485
13	134	205	5	010201300	15,319
13,5	140	214	3	010201350	22,356
14	140	214	3	010201400	22,356
14,5	144	220	3	010201450	23,806
15	144	220	3	010201500	29,325
15,5	149	227	3	010201550	30,614
16	149	227	3	010201600	33,341
17	154	235	1	010201700	39,963
18	158	241	1	010201800	43,953
19	162	247	1	010201900	48,461
20	166	254	1	010202000	54,406



PUNTE HSS RULLATE
IN POLLICI
HSS roll-forged straight shank twist drills-jobber's length

01030 **HSS-R** **ANSI B94 ESECUZIONE RULLATA**
Rolled

Serie corta - Pollici
Short serie - Inches



W 27°



HV= 750÷820



<5 d



Confezione
Packaging



R ≤ 650 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Per forare: tutti i metalli, ferro, acciaio etc...

For drilling in: iron, steel, metals...

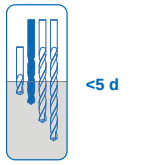
Ø inch	Ø mm	l inch	L inch	pcs.	cod.	€ cad/each
1/64	0,40	13/64	7/8	10	0103011	**0,917**
1/32	0,79	13/32	1-1/4	10	0103012	**0,917**
3/64	1,19	5/8	1-3/4	10	0103013	**0,917**
1/16	1,59	7/8	1-7/8	10	0103014	**0,358**
5/64	1,98	1"	2"	10	0103015	**0,373**
3/32	2,38	1-1/4	2-1/4	10	0103016	**0,384**
7/64	2,78	1-1/2	2-5/8	10	0103017	**0,424**
1/8	3,17	1-5/8	2-3/4	10	0103018	**0,440**
9/64	3,57	1-3/4	2-7/8	10	0103019	**0,533**
5/32	3,97	2"	3-1/8	10	0103020	**0,600**
11/64	4,37	2-1/8	3-1/4	10	0103021	**0,612**
3/16	4,76	2-5/16	3-1/2	10	0103022	**0,718**
13/64	5,16	2-7/16	3-5/8	10	0103023	**0,797**
7/32	5,56	2-1/2	3-3/4	10	0103024	**0,904**
15/64	5,95	2-5/8	3-7/8	10	0103025	**0,933**
1/4	6,35	2-3/4	4"	10	0103026	**1,053**
17/64	6,75	2-7/8	4-1/8	10	0103027	**1,304**
9/32	7,14	2-15/16	4-1/4	5	0103028	**1,449**
19/64	7,54	3-1/16	4-3/8	5	0103029	**1,543**
5/16	7,94	3-3/16	4-1/2	5	0103030	**1,902**
21/64	8,33	3-5/16	4-5/8	5	0103031	**2,022**
11/32	8,73	3-7/16	4-3/4	5	0103032	**2,287**
23/64	9,13	3-1/2	4-7/8	5	0103033	**2,406**
3/8	9,52	3-5/8	5"	5	0103034	**2,446**
25/64	9,92	3-3/4	5-1/8	5	0103035	**3,073**
13/32	10,32	3-7/8	5-1/4	5	0103036	**3,179**
27/64	10,72	3-15/16	5-3/8	5	0103037	**3,272**
7/16	11,11	4-1/16	5-1/2	5	0103038	**3,631**
29/64	11,51	4-3/16	5-5/8	5	0103039	**3,684**
15/32	11,91	4-5/16	5-3/4	5	0103040	**4,415**
31/64	12,30	4-7/16	5-7/8	5	0103041	**4,602**
1/2	12,70	4-1/2	6"	5	0103042	**4,788**
33/64	13,00	4-13/16	6-5/8	5	0103043	**5,652**
17/32	13,50	4-13/16	6-5/8	3	0103044	**5,812**
35/64	14,00	4-13/16	6-5/8	3	0103045	**6,412**
9/16	14,30	4-13/16	6-5/8	3	0103046	**7,035**
37/64	14,70	4-13/16	6-5/8	3	0103047	**8,338**
19/32	15,00	5-3/16	7-1/8	3	0103048	**9,602**
39/64	15,50	5-3/16	7-1/8	3	0103049	**10,638**
5/8	16,00	5-3/16	7-1/8	3	0103050	**11,637**
11/16	17,50	5-3/16	7-1/8	1	0103054	**14,562**
3/4	19,00	5-5/16	7-3/8	1	0103058	**16,636**

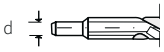
PUNTE HSS RULLATE
IN POLLICI CON CODOLO RIDOTTO
Reduced shank HSS roll-forged straight shank twist drills-jobber's length

01034 | **HSS**

SILVER&DEMING ANSI B94
ESECUZIONE FRESATA
Milled

Codolo ridotto - Pollici 1/2"
Reduced shank - Inches 1/2"





d=1/2"



Confezione
Packaging



Ø *inch*	Ø *mm*	*l* *inch*	L *inch*	D	pcs.	cod.	€ cad/each
17/32	13,50	3-1/8	6"	1/2"	1	0103402	**13,415**
9/16	14,30	3-1/8	6"	1/2"	1	0103404	**13,599**
19/32	15,00	3-1/8	6"	1/2"	1	0103406	**15,385**
5/8	16,00	3-1/8	6"	1/2"	1	0103408	**15,594**
21/32	16,70	3-1/8	6"	1/2"	1	0103410	**16,807**
11/16	17,50	3-1/8	6"	1/2"	1	0103412	**18,343**
23/32	18,25	3-1/8	6"	1/2"	1	0103414	**19,557**
3/4	19,00	3-1/8	6"	1/2"	1	0103416	**21,279**
25/32	20,00	3-1/8	6"	1/2"	1	0103418	**22,596**
13/16	20,50	3-1/8	6"	1/2"	1	0103420	**24,863**
27/32	21,50	3-1/8	6"	1/2"	1	0103422	**26,624**
7/8	22,25	3-1/8	6"	1/2"	1	0103424	**29,701**
29/32	23,00	3-1/8	6"	1/2"	1	0103426	**33,092**
15/16	24,00	3-1/8	6"	1/2"	1	0103428	**35,502**
31/32	24,50	3-1/8	6"	1/2"	1	0103430	**39,141**
1"	25,40	3-1/8	6"	1/2"	1	0103432	**41,854**
1.3/32	27,75	3-1/8	6"	1/2"	1	0103438	**50,718**
1.1/8	28,50	3-1/8	6"	1/2"	1	0103440	**51,619**
1.1/4	31,75	3-1/8	6"	1/2"	1	0103448	**84,422**
1.3/8	35,00	3-1/8	6"	1/2"	1	0103456	**106,796**
1.1/2	38,00	3-1/8	6"	1/2"	1	0103464	**159,784**

R ≤ 650 N/mm²

Applicazioni
Applications


Metalli
Metals


Acciaio
Steel


Emulsione
Lubrificant

Per forare: tutti i metalli,
ferro, acciaio etc...

For drilling in: iron, steel, metals...

PUNTE PER OTTONE E PER MATERIALI A TRUCIOLO CORTO, SERIE CORTA

Fully ground twist drills for brass

01091 **HSS-G** **DIN 338 RETTIFICATA**

Ground from the solid

Speciale per ottone

Special for brass



H 20°



<5 d



Confezione
Packaging



Ø h8	l	L	pcs.	cod.	€ cad/each
1	12	34	10	010910100	**4,471**
1,5	18	40	10	010910150	**3,966**
2	24	49	10	010910200	**3,966**
2,25	27	53	10	010910225	**4,540**
2,5	30	57	10	010910250	**4,049**
2,75	33	61	10	010910275	**4,906**
3	33	61	10	010910300	**4,460**
3,25	36	65	10	010910325	**5,398**
3,5	39	70	10	010910350	**4,906**
3,75	39	70	10	010910375	**5,867**
4	43	75	10	010910400	**5,317**
4,25	43	75	10	010910425	**7,264**
4,5	47	80	10	010910450	**6,430**
4,75	47	80	10	010910475	**7,345**
5	52	86	10	010910500	**6,607**
5,25	52	86	10	010910525	**9,363**
5,5	57	93	10	010910550	**8,917**
5,75	57	93	10	010910575	**9,363**
6	57	93	10	010910600	**8,508**
6,25	63	101	10	010910625	**11,204**
6,5	63	101	10	010910650	**10,199**
6,75	69	109	10	010910675	**11,394**
7	69	109	10	010910700	**10,362**
7,5	69	109	5	010910750	**15,208**
7,75	75	117	5	010910775	**16,938**
8	75	117	5	010910800	**16,260**
8,25	75	117	5	010910825	**16,502**
8,5	75	117	5	010910850	**15,249**
8,75	81	125	5	010910875	**17,242**
9	81	125	5	010910900	**15,761**
9,25	81	125	5	010910925	**17,972**
9,5	81	125	5	010910950	**17,242**
9,75	87	133	5	010910975	**19,077**
10	87	133	5	010911000	**17,595**
10,5	87	133	5	010911050	**21,404**
11	94	142	5	010911100	**26,004**
11,5	94	142	5	010911150	**30,530**
12	101	151	5	010911200	**33,377**
12,5	101	151	5	010911250	**34,745**
13	101	151	5	010911300	**34,745**

R ≤ 650 N/mm²

Applicazioni
Applications



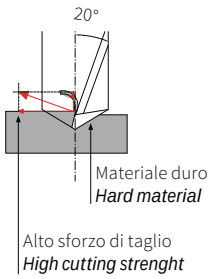
Ottone
Brass



Truciolo corto
Short chip



Emulsione
Lubrificant



PUNTE PER ALLUMINIO E PER MATERIALI A TRUCIOLO LUNGO, SERIE CORTA

Fully ground twist drills for light alloys

01092 **HSS-G** **DIN 338 RETTIFICATA**

Ground from the solid

Speciale per alluminio

Special for alluminium

135° W 35°

<5 d



Confezione
Packaging



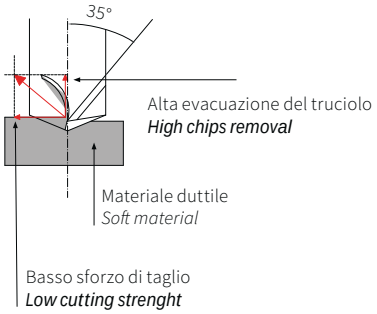
R ≤ 650 N/mm²

Applicazioni
Applications

Alu — Alluminio
Aluminum

Truciolo lungo
Long chip

Ø h8	l	L	pcs.	cod.	€ cad/each
1	12	34	10	010920100	4,471
1,5	18	40	10	010920150	3,966
2	24	49	10	010920200	3,966
2,25	27	53	10	010920225	4,540
2,5	30	57	10	010920250	4,049
2,75	33	61	10	010920275	4,906
3	33	61	10	010920300	4,460
3,2	36	65	10	010920320	5,398
3,25	36	65	10	010920325	5,398
3,5	39	70	10	010920350	4,906
3,75	39	70	10	010920375	5,867
4	43	75	10	010920400	5,317
4,2	43	75	10	010920420	7,264
4,25	43	75	10	010920425	7,264
4,5	47	80	10	010920450	6,430
4,75	47	80	10	010920475	7,345
5	52	86	10	010920500	6,607
5,2	52	86	10	010920520	9,363
5,25	52	86	10	010920525	9,363
5,5	57	93	10	010920550	8,917
5,75	57	93	10	010920575	9,363
6	57	93	10	010920600	8,508
6,25	63	101	10	010920625	11,204
6,5	63	101	10	010920650	10,199
6,75	69	109	10	010920675	11,394
7	69	109	10	010920700	10,362
7,25	69	109	5	010920725	15,208
7,5	69	109	5	010920750	16,158
7,75	75	117	5	010920775	17,996
8	75	117	5	010920800	17,277
8,25	75	117	5	010920825	17,532
8,5	75	117	5	010920850	16,203
8,75	81	125	5	010920875	18,320
9	81	125	5	010920900	16,746
9,25	81	125	5	010920925	19,095
9,5	81	125	5	010920950	18,320
9,75	87	133	5	010920975	20,270
10	87	133	5	010921000	18,696
10,5	87	133	5	010921050	22,742
11	94	142	5	010921100	27,629
11,5	94	142	5	010921150	32,437
12	101	151	5	010921200	35,464
12,5	101	151	5	010921250	36,916
13	101	151	5	010921300	36,916



ASSORTIMENTI DI PUNTE PER METALLO: UN FORMATO PER OGNI ESIGENZA

Metal cutting twist drills assortments: one size for every need

Per ciascuna tipologia di punta sono disponibili diverse tipologie e dimensioni di assortimenti: individua il più adatto alla tue esigenze e consulta la visione d'insieme alla pagina successiva.

Different types and sizes of assortments are ***available for each type of twist drill: identify the most suitable for your needs and consult the overview on the next page.***



SELETTORE IN PLASTICA
PLASTIC SELECTOR

Contenitore in plastica di forma cilindrica, permette una pratica organizzazione delle punte per diametro. Disponibile solo per le punte rullate.

Cylindrical plastic box, allows a practical organization of the twist drills by diameter. Only available for rolled twist drills.

n. pezzi *No. pieces*	Range ø punte *Drill bit ø range*	Passo (mm) *Passo (mm)*
19	1÷10	0,5



SLIM LINE
SLIM LINE

Astucci in PPT compatti e leggeri, grazie alla profilo estremamente sottile sono la scelta ideale per l'allestimento di assortimenti a libero servizio. Disponibili i 4 diversi assortimenti con i diametri ed i passi di maggiore utilizzo.

Compact and light PPT boxes, thanks to the extremely thin profile, are the ideal choice for the set-up of self-service assortments. Available in 4 different assortments with the most commonly used diameters and pitches.

n. pezzi *No. pieces*	Range ø punte *Drill bit ø range*	Passo (mm) *Passo (mm)*
6	2÷8	1
10	1÷10	1
13	2÷8	0,5
13	1,5÷6,5	0,5 + prefori



BOX ABS
ABS BOX

Box in ABS resistente agli urti, appendibili, proteggono le punte da polvere ed umidità, sono la scelta preferita dai professionisti per custodire i loro migliori assortimenti. Disponibili in due diverse dimensioni per assortimenti completi di interi e mezzi.

Shock-resistant ABS boxes, hangable, protect the twist drills from dust and humidity, they are the preferred choice by professionals to keep their best assortments. Available in two different sizes with whole numbers and fractions.

n. pezzi *No. pieces*	Range ø punte *Drill bit ø range*	Passo (mm) *Passo (mm)*
19	1÷10	0,5
25	1÷13	0,5



BOX IN METALLO
METAL BOX

Box in metallo, appendibili, con pratica finestrella che rende visibili gli utensili contenuti, permettono di tenere organizzate le punte per diametro per una pratica e veloce individuazione.
Disponibili in un'ampia scelta di assortimenti completi di interi, mezzi e decimali.

Metal box, hangable, with a practical window that makes the tools contained visible, allowing you to keep the twist drills organized by diameter for practical and quick identification.
Available in a wide choice of complete assortments of whole numbers, fractions and decimals.

n. pezzi *No. pieces*	Range ø punte *Drill bit ø range*	Passo (mm) *Passo (mm)*
19	1÷10	0,5
25	1÷13	0,5
37	1÷10	0,25
49	1÷13	0,25
51	1÷6	0,1
41	6÷10	0,1



VALIGETTA IN METALLO
METAL BOX

Valigetta in metallo con scoparti interni, permettono una funzionale e pratica organizzazione di una grande quantità di punte, preservandole da polvere ed umidità. Disponibili in due diversi assortimenti, il numero di pezzi contenuti varia in base alla tipologia di punta contenuta.

Metal case with internal compartments, they allow a functional and practical organization of a large one number of twist drills, preserving them from dust and humidity. Available in two different assortments, the number of pieces contained varies according to the type of twist drill contained.

n. pezzi *No. pieces*	Range ø punte *Drill bit ø range*	Passo (mm) *Passo (mm)*
116 +	1÷10	0,5
128 +	1÷13	0,5

Dimensioni
Dimensions
330x240x55 mm



ESPOSITORI DA BANCO IN METALLO
METAL DISPLAYS

Espositori in metallo ideali per l'esposizione a banco di una gamma completa di punte. Il crowner personalizzato per ciascuna linea permette di comunicare il modo intuitivo la tipologia di punta contenuta e le sue principali caratteristiche tecniche. Disponibile in versione compatta, per assortimenti con passo 0,5 mm, o in versione grande per assortimenti completi con passo 0,25 mm. Il numero di pezzi contenuti varia in base alla tipologia di punta scelta.

Metal displays ideal to show a complete range of drill bits. The personalized crowner for each line allows you to intuitively communicate the type of twist drills contained and its main ones technical features. Available in compact version, for assortments with 0.5 mm pitch, or in version large for complete sets with 0.25 mm pitch. The number of pieces contained varies according to the chosen type of twist drill.

n. pezzi *No. pieces*	Range ø punte *Drill bit ø range*	Passo (mm) *Passo (mm)*
168 +	1÷13	0,5
240 +	1÷13	0,25

Dimensioni versione compatta
Compact version Dimensions
375x240x200 mm

Dimensioni versione estesa
Extended version Dimensions
390x460x230 mm

Apertura solo frontale
Front only opening



ESPOSITORI DA BANCO IN PLASTICA
PLASTIC DISPLAYS

Espositori da banco in plastica per l'esposizione a banco di una gamma completa di punte con passo 0,5 mm. Il crowner personalizzato per ciascuna linea permette di comunicare il modo intuitivo la tipologia di punta contenuta e le sue principali caratteristiche tecniche. In base alla tipologia di punta varia il numero di pezzi contenuti.

Plastic displays to show a complete range of 0.5 mm pitch twist drills.
The personalized crowner for each line allows you to intuitively communicate the type of twist drill contained and its main technical characteristics. The number of pieces varies according to the chosen type of twist drill.

n. pezzi *No. pieces*	Range ø punte *Drill bit ø range*	Passo (mm) *Passo (mm)*
168 +	1÷13	0,5

Dimensioni
Dimensions
400x345x210 mm

VISIONE D'INSIEME: ASSORTIMENTI PUNTE PER METALLO, SERIE CORTA DIN 338

Overview: DIN 338 short serie twist drills assortments

				N° PCS.	**6**		**10**		**13**		**13**	
				GAMMA/*RANGE* **Ø**	2÷8		1÷10		2÷8		1.5÷6,5	
				PASSO/*PITCH* **(mm)**	1		1		0,5		0,5 + PREFORI	
				MATERIALE / *MATERIAL*	SLIM							
MATERIALE *MATERIAL*	**RIVESTIMENTO** *COATING*	**CODICE PUNTA** *CODE*	**IMMAGINE** *IMAGE*									
					COD.	€	COD.	€	COD.	€	COD.	€
HM HSS	-	01093			01068208 (5 pcs)	**94,502 €**						
Co8% AISI M42	-	01120			01135204	**30,995 €**	01135201	68,720 €	01135205	67,374 €	01135203	47,165 €
Co5% AISI M35	TiAlN	01300										
	TiAlN	01305										
	-	01140										
	-	01139										
	-	01145			01155204	**22,460 €**	01155201	51,326 €	01155205	48,765 €	01155203	34,645 €
	-	01157										
HSS-G AISI M2	-	01220					01229201	50,500 €	01229205	47,500 €		
	-	01401			01402204	**23,000 €**	01402201	49,800 €	01402205	47,250 €		
	TiN	01320										
	TiN	01160			01170204	**19,032 €**	01170201	36,742 €	01170205	35,325 €	01170203	24,093 €
	-	01201			01205204	**18,950 €**	01205201	36,500 €	01205205	35,000 €	01205203	23,900 €
	-	01060			01068204	**18,500 €**	01068201	34,694 €	01068205	34,000 €	01068202	23,000 €
	-	01090 SX			01068209	**29,750 €**			01068207	45,000 €		
	-	01070			01075204	**17,500 €**	01075201	33,133 €	01075205	32,800 €	01075203	22,500 €
	-	01115										
	-	01079			01068700 (5 pcs)	**22,948 €**						
	-	01066					01068211	41,000 €	01068215	38,900 €		
HSS-G	-	01350					01360201	25,958 €	01360205	25,400 €		
	-	01080					01085201	21,640 €	01085205	21,300 €		
HSS-R	-	01001			01016204	**8,098 €**	01016201 (HSS) 09010231 (9 pcs HSS+W) 09013232 (9 pcs HSS+W+W.S)	13,926 € 11,500 € 11,708 €	01016205	13,789 €	01016203	10,089 €
	-	01030							01040202	12,126 €		
SPECIAL	-	01091							01068216	105,000 €		
	-	01092									01068203	79,500 €

19	19	19	25	19	25
1÷10	1÷10	1÷10	1÷13	1÷10	1÷13
0,5	0,5	0,5	0,5	0,5	0,5
SLIM	SELETTORE	ABS		METAL	
					

COD.	€	COD.	€	COD.	€	COD.	€	COD.	€	COD.	€
				01135301	121,267 €	01135302	266,802 €				
				01310301	216,839 €	01310302	393,763 €				
				01310305	277,144 €	01310306	503,860 €				
				01142401	154,503 €	01142402	328,563 €				
				01155303	135,093 €	01155304	311,105 €				
				01155301	88,547 €	01155302	177,094 €				
				01159401	105,766 €	01159402	265,119 €				
				01229301	92,394 €	01229302	191,391 €				
				01402301	90,542 €	01402302	187,562 €				
				01170311	105,007 €	01170312	210,917 €				
				01170301	65,750 €	01170302	137,172 €				
				01205301	62,230 €	01205302	129,019 €				
				01068301	57,815 €	01068302	117,988 €	01068401	55,567 €	01068402	110,258 €
				01068307	143,848 €	01068308	307,359 €				
				01075301	57,259 €	01075302	113,452 €	01075401	53,984 €	01075402	103,998 €
				01118401	64,060 €	01118402	141,008 €				
				01068311	54,673 €	01068312	117,169 €				
								01360401	40,173 €	01360402	70,286 €
								01085401	35,492 €	01085402	66,927 €
01016206	19,163 €	01016101 HSS 09001102 HSS+W 09005105 MIX	17,893 € 17,512 € 18,084 €					01016401	21,159 €	01016402	44,080 €
				01040401 (21 PCS)	29,433 €	01040402 (29 PCS)	54,994 €				

VISIONE D'INSIEME: ASSORTIMENTI PUNTE PER METALLO, SERIE CORTA DIN 338

Overview: DIN 338 short serie twist drills assortments

N° PCS.	37	49	51	41
GAMMA/*RANGE* Ø	1÷10	1÷13	1÷6	6÷10
PASSO/*PITCH* (mm)	0,25	0,25	0,1	0,1
MATERIALE / *MATERIAL*	METAL			

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	CODICE PUNTA *CODE*	IMMAGINE *IMAGE*	COD.	€	COD.	€	COD.	€	COD.	€
HM HSS	-	01093									
Co8% AISI M42	-	01120		01135411	275,904 €	01135412	614,702 €	01135403	220,980 €	01135404	665,644 €
Co5% AISI M35	TiAlN	01300									
	TiAlN	01305									
	-	01140									
	-	01139									
	-	01145		01155411	180,176 €	01155412	391,530 €	01155403	134,748 €	01155404	365,743 €
	-	01157									
HSS-G AISI M2	-	01220		01229411	176,416 €	01229412	374,408 €				
	-	01401									
	TiN	01320									
	TiN	01160		01170411	142,083 €	01170412	289,378 €	01170407	82,402 €	01170408	252,966 €
	-	01201		01205411	142,605 €	01205412	285,199 €	01205404	81,862 €	01205405	251,871 €
	-	01060		01068411	135,575 €	01068412	271,152 €	01068404	78,634 €	01068405	228,968 €
	-	01090 SX									
	-	01070		01075411	135,575 €	01075412	271,152 €	01075407	75,470 €	01075408	219,810 €
	-	01115									
	-	01079									
	-	01066		01068413	124,458 €	01068414	268,454 €	01068422	62,000 €	01068423	195,000 €
HSS-G	-	01350		01360411	98,838 €	01360412	181,861 €	01360407	50,500 €	01360408	125,800 €
	-	01080		01085411	92,214 €	01085412	163,611 €	01085407	45,000 €	01085408	110,000 €
HSS-R	-	01001		01016411	71,396 €	01016412	114,936 €	01016407	41,243 €	01016408	98,709 €
	-	01030									
SPECIAL	-	01091									
	-	01092									

116+	128+	168+	240+	128+
1÷10	1÷13	1÷13	1÷13	1÷13
0,5	0,5	0,5	0,25	0,5
METAL				ABS
				

COD.	€	COD.	€	COD.	€	COD.	€	COD.	€
01135450 (116 pcs)	550,000 €	01135451 (148 pcs)	1.010,000€	01135501 (168 pcs)	1.500,000€	01135507 (240 pcs)	2.025,000€	01135510 (128 pcs)	925,000 €
01310452 (71 pcs)	860,000 €								
01142450 (116 pcs)	550,000 €								
01155454 (116 pcs)	471,000 €								
01155450 (116 pcs)	372,000 €	01155451 (148 pcs)	659,000 €	01155501 (168 pcs)	955,000€	01155507 (255 pcs)	1.514,000€	01155510 (128 pcs)	604,000 €
01229450 (116 pcs)	386,000 €	01229451 (148 pcs)	647,000 €	01229501 (168 pcs)	942,000€	01229502 (240 pcs)	1.285,000€	01229510 (168 pcs)	919,000 €
01402450 (116 pcs)	370,000 €	01402451 (148 pcs)	623,000 €	01402501 (168 pcs)	898,000€			01402510 (168 pcs)	876,000 €
01170452 (116 pcs)	372,000 €								
01170450 (116 pcs)	305,000 €	01170451 (148 pcs)	520,000 €	01170501 (168 pcs)	745,000€	01170507 (255 pcs)	1.168,000€	01170510 (158 pcs)	713,000 €
01205450 (150 pcs)	485,000 €	01205451 (188 pcs)	799,000 €	01205501 (540 pcs)	1.650,000€	01205507 (700 pcs)	2.160,000€	01205510 (168 pcs)	640,000 €
01068450 (150 pcs)	393,000 €	01068451 (188 pcs)	653,000 €	01068501 (600 pcs)	1.468,000€	01068507 (760 pcs)	1.857,000€	01068510 (168 pcs)	616,000 €
01075450 (150 pcs)	382,000 €	01075451 (188 pcs)	555,000 €	01075501 (600 pcs)	1.425,000€	01075507 (760 pcs)	1.800,000€	01075510 (168 pcs)	598,000 €
01068460 (150pcs)	330,000 €								
01360450 (150 pcs)	222,000 €	01360451 (188 pcs)	367,000 €	01360502 (600 pcs)	833,000€	01360507 (760 pcs)	1.045,000€		
01085450 (150 pcs)	200,000 €	01085451 (188 pcs)	350,000 €	01085501 (720 pcs)	830,000€	01085507 (900 pcs)	1.200,000€		
01016450 (150 pcs)	145,000 €	01016451 (188 pcs)	260,000 €	01016501 (880 pcs)	613,000€	01016507 (1110 pcs)	1.025,000€	01016510 (610 pcs)	499,000 €

COMPOSIZIONE ASSORTIMENTI IN VALIGETTA ED ESPOSITORI DA BANCO
Composition of metal cases and displays

VALIGETTA IN METALLO
METAL CASE

1÷10 x 0,5 mm

Misure: 330x240x55 mm
Measures: 330x240x55 mm



COD ART.	01135450	01310452	01155454	01142450	01155450	01229450	01402450	01170452	01170450	01205450	01068450	01075450	01068460	01360450	01085450	01016450
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1,5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2,5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3	10	5	10	10	10	10	10	10	10	20	20	20	20	20	20	20
3,5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4,5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5	10	5	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5,5	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
6	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
6,5	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
7	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
7,5	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
8	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
8,5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
9	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
9,5	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
10	2	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
tot. pcs.	116	71	116	116	116	116	116	116	116	150	150	150	150	150	150	150

VALIGETTA IN METALLO
METAL CASE

1÷13 x 0,5 mm

Misure: 550x310x55 mm
Measures: 550x310x55 mm



COD ART.	01135451	01155451	01229451	01402451	01170451	01205451	01068451	01075451	01360451	01085451	01016451
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	10	10	10	10	10	10	10	10	10	10
1,5	10	10	10	10	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10	10	10	10	10
2,5	10	10	10	10	10	10	10	10	10	10	10
3	10	10	10	10	10	20	20	20	20	20	20
3,3	10	10	10	10	10	10	10	10	10	10	10
3,5	10	10	10	10	10	10	10	10	10	10	10
4	10	10	10	10	10	10	10	10	10	10	10
4,2	10	10	10	10	10	10	10	10	10	10	10
4,5	10	10	10	10	10	10	10	10	10	10	10
5	10	10	10	10	10	10	10	10	10	10	10
5,5	3	3	3	3	3	5	5	5	5	5	5
6	3	3	3	3	3	5	5	5	5	5	5
6,5	3	3	3	3	3	5	5	5	5	5	5
7	3	3	3	3	3	5	5	5	5	5	5
7,5	3	3	3	3	3	5	5	5	5	5	5
8	3	3	3	3	3	5	5	5	5	5	5
8,5	2	2	2	2	2	5	5	5	5	5	5
9	2	2	2	2	2	5	5	5	5	5	5
9,5	2	2	2	2	2	5	5	5	5	5	5
10	2	2	2	2	2	5	5	5	5	5	5
10,5	2	2	2	2	2	3	3	3	3	3	3
11	2	2	2	2	2	3	3	3	3	3	3
11,5	2	2	2	2	2	3	3	3	3	3	3
12	2	2	2	2	2	3	3	3	3	3	3
12,5	2	2	2	2	2	3	3	3	3	3	3
13	2	2	2	2	2	3	3	3	3	3	3
tot. pcs.	148	148	148	148	148	188	188	188	188	188	188

ESPOSITORE IN METALLO
METAL DISPLAY

1÷13 x 0,5 mm

Misure: 375x240x200 mm
Measures: 375x240x200 mm



COD ART.	01135501	01155501	01229501	01402501	01170501	01205501	01068501	01075501	01360502	01085501	01016501
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	10	10	10	10	30	30	30	30	30	50
1,5	10	10	10	10	10	30	30	30	30	30	100
2	10	10	10	10	10	50	50	50	50	50	100
2,5	10	10	10	10	10	50	50	50	50	70	100
3	10	10	10	10	10	80	100	100	100	100	150
3,5	10	10	10	10	10	50	50	50	50	70	100
4	10	10	10	10	10	80	100	100	100	100	100
4,5	10	10	10	10	10	30	30	30	30	50	30
5	10	10	10	10	10	30	30	30	30	50	30
5,5	10	10	10	10	10	10	20	20	20	30	10
6	10	10	10	10	10	20	20	20	20	40	20
6,5	5	5	5	5	5	5	10	10	10	10	10
7	5	5	5	5	5	5	10	10	10	10	10
7,5	5	5	5	5	5	5	5	5	5	5	5
8	5	5	5	5	5	10	10	10	10	20	10
8,5	5	5	5	5	5	5	5	5	5	5	5
9	5	5	5	5	5	5	5	5	5	5	5
9,5	5	5	5	5	5	5	5	5	5	5	5
10	5	5	5	5	5	10	10	10	10	10	10
10,5	3	3	3	3	3	5	5	5	5	5	5
11	3	3	3	3	3	5	5	5	5	5	5
11,5	3	3	3	3	3	5	5	5	5	5	5
12	3	3	3	3	3	5	5	5	5	5	5
12,5	3	3	3	3	3	5	5	5	5	5	5
13	3	3	3	3	3	5	5	5	5	5	5
tot. pcs.	168	168	168	168	168	540	600	600	600	720	880

ESPOSITORE IN METALLO
METAL DISPLAY

1÷13 x 0,25 mm

Misure: 390x460x230 mm
Measures: 390x460x230 mm



COD ART.	01135507	01155507	01229502	01170507	01205507	01068507	01075507	01360507	01085507	01016507
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	10	10	10	20	30	30	30	30	50
1,25	5	5	5	5	10	10	10	10	10	10
1,5	10	10	10	10	30	30	30	30	30	50
1,75	5	5	5	5	10	10	10	10	10	10
2	10	10	10	10	40	50	50	50	50	50
2,25	5	5	5	5	10	10	10	10	10	10
2,5	10	10	10	10	50	50	50	50	50	100
2,75	5	5	5	5	10	10	10	10	10	20
3	10	10	10	10	100	100	100	100	100	100
3,25	10	10	10	10	10	10	10	10	10	20
3,5	10	10	10	10	50	50	50	50	100	100
3,75	10	10	10	10	10	10	10	10	10	20
4	10	10	10	10	60	80	80	80	100	100
4,25	10	10	10	10	10	10	10	10	10	10
4,5	10	10	10	10	50	50	50	50	50	50
4,75	3	3	3	3	10	10	10	10	10	10
5	10	10	10	10	40	60	60	60	100	50
5,25	3	3	3	3	5	5	5	5	5	10
5,5	10	10	10	10	30	30	30	30	30	30
5,75	2	3	2	3	5	5	5	5	5	10
6	10	10	10	10	30	30	30	30	30	30
6,25	2	2	2	2	3	3	3	3	3	10
6,5	5	5	5	5	20	20	20	20	20	30
6,75	2	2	2	2	2	2	2	2	3	10
7	5	5	5	5	5	5	5	5	10	30
7,25	2	2	2	2	2	2	2	2	2	5
7,5	5	5	5	5	5	5	5	5	5	30
7,75	2	2	2	2	2	2	2	2	2	3
8	5	5	5	5	10	10	10	10	20	30
8,25	2	2	2	2	2	2	2	2	2	3
8,5	3	5	3	5	5	5	5	5	5	20
8,75	2	2	2	2	2	2	2	2	2	3
9	3	5	3	5	5	5	5	5	5	20
9,25	2	2	2	2	2	2	2	2	2	2
9,5	3	5	3	5	5	5	5	5	5	20
9,75	2	2	2	2	2	2	2	2	2	2
10	3	5	3	5	10	10	10	10	10	10
10,25	2	2	2	2	2	2	2	2	2	2
10,5	2	3	2	3	3	3	3	3	5	5
10,75	2	2	2	2	2	2	2	2	2	2
11	2	3	2	3	3	3	3	3	5	5
11,25	2	2	2	2	2	2	2	2	2	2
11,5	2	3	2	3	2	2	2	2	5	5
11,75	2	2	2	2	2	2	2	2	2	2
12	2	3	2	3	3	3	3	3	5	5
12,25	2	2	2	2	2	2	2	2	2	2
12,5	2	3	2	3	2	2	2	2	5	5
12,75	2	2	2	2	2	2	2	2	2	2
13	2	3	2	3	3	3	3	3	5	5
tot. pcs.	240	255	240	255	700	760	760	760	900	1110

ESPOSITORE IN PLASTICA
PLASTIC DISPLAY

1÷13 x 0,5 mm

Misure: 400X345X210 mm
Measures: 400X345X210 mm



COD ART.	01135510	01155510	01229510	01402510	01170510	01205510	01068510	01075510	01016510
Ø	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.	pcs.
1	10	10	10	10	10	10	10	10	30
1,5	10	10	10	10	10	10	10	10	50
2	10	10	10	10	10	10	10	10	50
2,5	10	10	10	10	10	10	10	10	50
3	10	10	20	20	10	20	20	20	100
3,5	10	10	10	10	10	10	10	10	50
4	10	10	10	10	10	10	10	10	100
4,5	10	10	10	10	10	10	10	10	30
5	10	10	10	10	10	10	10	10	30
5,5	3	3	5	5	5	5	5	5	10
6	3	3	5	5	5	5	5	5	20
6,5	3	3	5	5	5	5	5	5	10
7	3	3	5	5	5	5	5	5	10
7,5	3	3	5	5	5	5	5	5	5
8	3	3	5	5	5	5	5	5	10
8,5	2	2	5	5	5	5	5	5	5
9	2	2	5	5	5	5	5	5	5
9,5	2	2	5	5	5	5	5	5	5
10	2	2	5	5	5	5	5	5	10
10,5	2	2	3	3	3	3	3	3	5
11	2	2	3	3	3	3	3	3	5
11,5	2	2	3	3	3	3	3	3	5
12	2	2	3	3	3	3	3	3	5
12,5	2	2	3	3	3	3	3	3	5
13	2	2	3	3	3	3	3	3	5
tot. pcs.	128	128	168	168	158	168	168	168	610

VISIONE D'INSIEME: PUNTE GAMBO RINFORZATO E ATTACCO CONICO MORSE

Overview: reinforced shank twist drills and Morse taper shank

	MATERIALE *MATERIAL*	AFFILATURA *SHARPENING*	ELICA *HELIX ANGLE*	FORI DI LUBRIFICAZIONE *OIL HOLES*	IMMAGINE *IMAGE*	TITANIO E SUPERLEGHE *TITANIUM AND SUPERALLOY*	INOX *STAINLESS STEEL*	ACCIAIO *STEEL* <1400 N/mm	ACCIAIO *STEEL* <900 N/mm	ACCIAIO *STEEL* <700 N/mm	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINUM AND ALLOYS*	R≤N/mm²
GAMBO RINFORZATO	MD	140°	27°	-		●		●	●	●	●	●	1200
		140°	27°	SI *YES*		●	●	●	●	●	●	●	1200
CODOLO CONICO	HM HSS	118°	27°	-					●	●	●		1100
	HSS Co	130°	27°	-			●		●	●	●	●	1200
	HSS-G	118°	27°	-					●	●	●	●	800
		118°	27°	SI *YES*					●	●	●	●	800
	HSS-R	118	27°	-						●	●		650


DIN 345


DIN 341


DIN 1870/1

DIN 6537K

DIN 6537L

COD.				01368	01369
				p.130	p.131
COD.				01366	01367
				p.132	p.133
COD.	01213				
	p.134				
COD.	01150				
	p.136				
COD.	01097	01028	01088		
	p.138	p.140	p.142		
COD.		01069			
		p.141			
COD.	01025				
	p.144				

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAlN CON GAMBO RINFORZATO, SERIE CORTA DIN 6537K

TiAlN coated tungsten carbide drill bits with reinforced shank, short serie DIN 6537K

01368 | VHM | **TiAlN** | **DIN 6537K METALLO DURO** Carbide | **Serie corta** *Short serie*

140° W 27°

VHM+TiAlN

Senza fori
Without holes





Confezione
Packaging

<3 d

R ≤ 1200 N/mm²

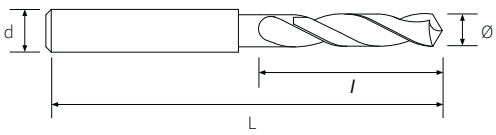
Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Titanio e superleghe
titanium and nickel-based super alloys

Ø m7	d h6	l	L	pcs.	cod.	€ cad/each
3	6	20	62	1	013680300	79,436
3,1	6	20	62	1	013680310	79,436
3,2	6	20	62	1	013680320	79,436
3,3	6	20	62	1	013680330	79,436
3,4	6	20	62	1	013680340	79,436
3,5	6	20	62	1	013680350	79,436
3,6	6	20	62	1	013680360	79,436
3,7	6	20	62	1	013680370	79,436
3,8	6	24	66	1	013680380	79,436
3,9	6	24	66	1	013680390	79,436
4	6	24	66	1	013680400	79,436
4,1	6	24	66	1	013680410	79,436
4,2	6	24	66	1	013680420	79,436
4,3	6	24	66	1	013680430	79,436
4,4	6	24	66	1	013680440	79,436
4,5	6	24	66	1	013680450	79,436
4,6	6	24	66	1	013680460	79,436
4,7	6	28	66	1	013680470	79,436
4,8	6	28	66	1	013680480	79,436
4,9	6	28	66	1	013680490	79,436
5	6	28	66	1	013680500	79,436
5,1	6	28	66	1	013680510	79,436
5,2	6	28	66	1	013680520	79,436
5,3	6	28	66	1	013680530	79,436
5,4	6	28	66	1	013680540	79,436
5,5	6	28	66	1	013680550	79,436
5,6	6	28	66	1	013680560	79,436
5,7	6	28	66	1	013680570	79,436
5,8	6	28	66	1	013680580	79,436
5,9	6	28	66	1	013680590	79,436
6	6	28	66	1	013680600	79,436
6,1	8	34	79	1	013680610	79,436
6,2	8	34	79	1	013680620	79,436
6,3	8	34	79	1	013680630	79,436
6,4	8	34	79	1	013680640	79,436
6,5	8	34	79	1	013680650	79,436
6,6	8	34	79	1	013680660	79,436
6,7	8	34	79	1	013680670	79,436
6,8	8	34	79	1	013680680	79,436
6,9	8	34	79	1	013680690	79,436
7	8	34	79	1	013680700	79,436
7,1	8	41	79	1	013680710	79,436
7,2	8	41	79	1	013680720	79,436
7,3	8	41	79	1	013680730	79,436
7,4	8	41	79	1	013680740	79,436
7,5	8	41	79	1	013680750	79,436
7,6	8	41	79	1	013680760	79,436
7,7	8	41	79	1	013680770	79,436
7,8	8	41	79	1	013680780	79,436
7,9	8	41	79	1	013680790	79,436
8	8	41	79	1	013680800	79,436
8,1	10	47	89	1	013680810	89,092
8,2	10	47	89	1	013680820	89,092
8,3	10	47	89	1	013680830	89,092
8,4	10	47	89	1	013680840	89,092
8,5	10	47	89	1	013680850	89,092
8,6	10	47	89	1	013680860	89,092
8,7	10	47	89	1	013680870	89,092
8,8	10	47	89	1	013680880	89,092
8,9	10	47	89	1	013680890	89,092
9	10	47	89	1	013680900	89,092
9,1	10	47	89	1	013680910	89,092
9,2	10	47	89	1	013680920	89,092
9,3	10	47	89	1	013680930	89,092
9,4	10	47	89	1	013680940	89,092
9,5	10	47	89	1	013680950	89,092
9,6	10	47	89	1	013680960	89,092
9,7	10	47	89	1	013680970	89,092
9,8	10	47	89	1	013680980	89,092
10	10	47	89	1	013681000	89,092
10,2	12	55	102	1	013681020	132,871
10,5	12	55	102	1	013681050	132,871
11	12	55	102	1	013681100	132,871
11,5	12	55	102	1	013681150	132,871
12	12	55	102	1	013681200	132,871
12,5	14	60	107	1	013681250	178,322
13	14	60	107	1	013681300	178,322
13,5	14	60	107	1	013681350	178,322
14	14	60	107	1	013681400	178,322
14,5	16	65	115	1	013681450	230,024
15	16	65	115	1	013681500	230,024
15,5	16	65	115	1	013681550	230,024
16	16	65	115	1	013681600	230,024



Profondità di foratura 3 Ø
Cutting depth 3 Ø

Acciai induriti, acciai per lavorazioni a caldo, acciai legati fino a 1200 N/mm², acciai dolci, bronzo, ghisa, leghe Al-Si.

Structural and case hardened steels, cast steels, heat treatable steels, alloyed steels up to 1200 N/mm², carbon steels, bronze, cast iron, high alloyed Al-Si alloys.

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAlN CON GAMBO RINFORZATO, SERIE LUNGA DIN 6537L

TiAlN coated tungsten carbide drill bits with reinforced shank, long serie DIN 6537L

01369 | VHM | **TiAlN** | **DIN 6537L METALLO DURO** Carbide | **Serie lunga** *Long serie*

140° W 27°

VHM+TiAlN
Senza fori
Without holes





<5 d

R ≤ 1200 N/mm²

Confezione
Packaging



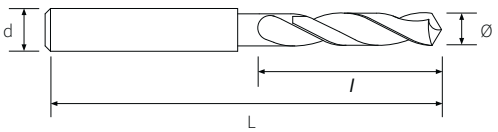
Ø m7	d h6	l	L	pcs.	cod.	€ cad/each
3	6	28	66	1	013690300	90,834
3,1	6	28	66	1	013690310	90,834
3,2	6	28	66	1	013690320	90,834
3,3	6	28	66	1	013690330	90,834
3,4	6	28	66	1	013690340	90,834
3,5	6	28	66	1	013690350	90,834
3,6	6	28	66	1	013690360	90,834
3,7	6	28	66	1	013690370	90,834
3,8	6	36	74	1	013690380	90,834
3,9	6	36	74	1	013690390	90,834
4	6	36	74	1	013690400	90,834
4,1	6	36	74	1	013690410	90,834
4,2	6	36	74	1	013690420	90,834
4,3	6	36	74	1	013690430	90,834
4,4	6	36	74	1	013690440	90,834
4,5	6	36	74	1	013690450	90,834
4,6	6	36	74	1	013690460	90,834
4,7	6	44	82	1	013690470	90,834
4,8	6	44	82	1	013690480	90,834
4,9	6	44	82	1	013690490	90,834
5	6	44	82	1	013690500	90,834
5,1	6	44	82	1	013690510	90,834
5,2	6	44	82	1	013690520	90,834
5,3	6	44	82	1	013690530	90,834
5,4	6	44	82	1	013690540	90,834
5,5	6	44	82	1	013690550	90,834
5,6	6	44	82	1	013690560	90,834
5,7	6	44	82	1	013690570	90,834
5,8	6	44	82	1	013690580	90,834
5,9	6	44	82	1	013690590	90,834
6	6	44	82	1	013690600	90,834
6,1	8	53	91	1	013690610	92,428
6,2	8	53	91	1	013690620	92,428
6,3	8	53	91	1	013690630	92,428
6,4	8	53	91	1	013690640	92,428
6,5	8	53	91	1	013690650	92,428
6,6	8	53	91	1	013690660	92,428
6,7	8	53	91	1	013690670	92,428
6,8	8	53	91	1	013690680	92,428
6,9	8	53	91	1	013690690	92,428
7	8	53	91	1	013690700	92,428
7,1	8	53	91	1	013690710	92,428
7,2	8	53	91	1	013690720	92,428
7,3	8	53	91	1	013690730	92,428
7,4	8	53	91	1	013690740	92,428
7,5	8	53	91	1	013690750	92,428
7,6	8	53	91	1	013690760	92,428
7,7	8	53	91	1	013690770	92,428
7,8	8	53	91	1	013690780	92,428
7,9	8	53	91	1	013690790	92,428
8	8	53	91	1	013690800	92,428
8,1	10	61	103	1	013690810	102,092
8,2	10	61	103	1	013690820	102,092
8,3	10	61	103	1	013690830	102,092
8,4	10	61	103	1	013690840	102,092
8,5	10	61	103	1	013690850	102,092
8,6	10	61	103	1	013690860	102,092
8,7	10	61	103	1	013690870	102,092
8,8	10	61	103	1	013690880	102,092
8,9	10	61	103	1	013690890	102,092
9	10	61	103	1	013690900	102,092
9,1	10	61	103	1	013690910	102,092
9,2	10	61	103	1	013690920	102,092
9,3	10	61	103	1	013690930	102,092
9,4	10	61	103	1	013690940	102,092
9,5	10	61	103	1	013690950	102,092
9,6	10	61	103	1	013690960	102,092
9,7	10	61	103	1	013690970	102,092
9,8	10	61	103	1	013690980	102,092
10	10	61	103	1	013691000	102,092
10,2	12	71	118	1	013691020	152,405
10,5	12	71	118	1	013691050	152,405
11	12	71	118	1	013691100	152,405
11,5	12	71	118	1	013691150	152,405
12	12	71	118	1	013691200	152,405
12,5	14	77	124	1	013691250	200,911
13	14	77	124	1	013691300	200,911
13,5	14	77	124	1	013691350	200,911
14	14	77	124	1	013691400	200,911
14,5	16	83	133	1	013691450	260,879
15	16	83	133	1	013691500	260,879
15,5	16	83	133	1	013691550	260,879
16	16	83	133	1	013691600	260,879

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Titanio e superleghe
titanium and nickel-based super alloys



Profondità di foratura 5 Ø
Cutting depth 5 Ø

Acciai induriti, acciai per lavorazioni a caldo, acciai legati fino a 1200 N/mm², acciai dolci, bronzo, ghisa, leghe Al-Si.

Structural and case hardened steels, cast steels, heat treatable steels, alloyed steels up to 1200 N/mm², carbon steels, bronze, cast iron, high alloyed Al-Si alloys.

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAlN CON GAMBO RINFORZATO, SERIE CORTA DIN 6537K - CON FORI

TiAlN coated tungsten carbide drill bits with reinforced shank, short serie DIN 6537K

01366 | VHM | TiAlN | **DIN 6537K METALLO DURO** Carbide | **Serie corta - con fori** *Short serie - with holes*

140° W 27°

VHM+TiAlN
Con fori
With holes



Confezione
Packaging





<3 d

R ≤ 1200 N/mm²

Applicazioni
Applications

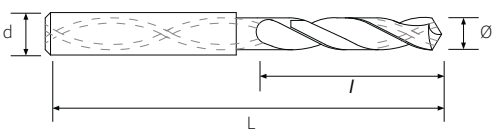
Metalli
Metals

Acciaio
Steel

Titanio e superleghe
titanium and nickel-based super alloys

Ø m7	D h6	l	L	pcs.	cod.	€ cad/each
3	6	20	62	1	013660300	94,170
3,1	6	20	62	1	013660310	94,170
3,2	6	20	62	1	013660320	94,170
3,3	6	20	62	1	013660330	94,170
3,4	6	20	62	1	013660340	94,170
3,5	6	20	62	1	013660350	94,170
3,6	6	20	62	1	013660360	94,170
3,7	6	20	62	1	013660370	94,170
3,8	6	24	66	1	013660380	94,170
3,9	6	24	66	1	013660390	94,170
4	6	24	66	1	013660400	102,061
4,1	6	24	66	1	013660410	102,061
4,2	6	24	66	1	013660420	102,061
4,3	6	24	66	1	013660430	102,061
4,4	6	24	66	1	013660440	102,061
4,5	6	24	66	1	013660450	102,061
4,6	6	24	66	1	013660460	102,061
4,7	6	28	66	1	013660470	102,061
4,8	6	28	66	1	013660480	102,061
4,9	6	28	66	1	013660490	102,061
5	6	28	66	1	013660500	102,061
5,1	6	28	66	1	013660510	102,061
5,2	6	28	66	1	013660520	102,061
5,3	6	28	66	1	013660530	102,061
5,4	6	28	66	1	013660540	102,061
5,5	6	28	66	1	013660550	102,061
5,6	6	28	66	1	013660560	102,061
5,7	6	28	66	1	013660570	102,061
5,8	6	28	66	1	013660580	102,061
5,9	6	28	66	1	013660590	102,061
6	6	28	66	1	013660600	102,061
6,1	8	34	79	1	013660610	138,475
6,2	8	34	79	1	013660620	138,475
6,3	8	34	79	1	013660630	138,475
6,4	8	34	79	1	013660640	138,475
6,5	8	34	79	1	013660650	138,475
6,6	8	34	79	1	013660660	138,475
6,7	8	34	79	1	013660670	138,475
6,8	8	34	79	1	013660680	138,475
6,9	8	34	79	1	013660690	138,475
7	8	34	79	1	013660700	138,475
7,1	8	41	79	1	013660710	138,475

Ø m7	D h6	l	L	pcs.	cod.	€ cad/each
7,2	8	41	79	1	013660720	138,475
7,3	8	41	79	1	013660730	138,475
7,4	8	41	79	1	013660740	138,475
7,5	8	41	79	1	013660750	138,475
7,6	8	41	79	1	013660760	138,475
7,7	8	41	79	1	013660770	138,475
7,8	8	41	79	1	013660780	138,475
7,9	8	41	79	1	013660790	138,475
8	8	41	79	1	013660800	138,475
8,1	10	47	89	1	013660810	155,250
8,2	10	47	89	1	013660820	155,250
8,3	10	47	89	1	013660830	155,250
8,4	10	47	89	1	013660840	155,250
8,5	10	47	89	1	013660850	155,250
8,6	10	47	89	1	013660860	155,250
8,7	10	47	89	1	013660870	155,250
8,8	10	47	89	1	013660880	155,250
8,9	10	47	89	1	013660890	155,250
9	10	47	89	1	013660900	155,250
9,1	10	47	89	1	013660910	155,250
9,2	10	47	89	1	013660920	155,250
9,3	10	47	89	1	013660930	155,250
9,4	10	47	89	1	013660940	155,250
9,5	10	47	89	1	013660950	155,250
9,6	10	47	89	1	013660960	155,250
9,7	10	47	89	1	013660970	155,250
9,8	10	47	89	1	013660980	155,250
10	10	47	89	1	013661000	155,250
10,2	12	55	102	1	013661020	222,202
10,5	12	55	102	1	013661050	222,202
11	12	55	102	1	013661100	222,202
11,5	12	55	102	1	013661150	222,202
12	12	55	102	1	013661200	222,202
12,5	14	60	107	1	013661250	310,489
13	14	60	107	1	013661300	310,489
13,5	14	60	107	1	013661350	310,489
14	14	60	107	1	013661400	310,489
14,5	16	65	115	1	013661450	379,008
15	16	65	115	1	013661500	379,008
15,5	16	65	115	1	013661550	379,008
16	16	65	115	1	013661600	379,008



Profondità di foratura 3 Ø
Cutting depth 3 Ø

Acciai induriti, acciai per lavorazioni a caldo, acciai legati fino a 1200 N/mm², acciai dolci, bronzo, ghisa, leghe Al-Si.

Structural and case hardened steels, cast steels, heat treatable steels, alloyed steels up to 1200 N/mm², carbon steels, bronze, cast iron, high alloyed Al-Si alloys.

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAlN CON GAMBO RINFORZATO, SERIE LUNGA DIN 6537L - CON FORI

TiAlN coated tungsten carbide drill bits with reinforced shank, long serie DIN 6537L

01367 | VHM | **TiAlN** | **DIN 6537L METALLO DURO** Carbide

Serie lunga - con fori
Long serie - with holes

140° W 27°

VHM+TiAlN
Con fori
With holes

<5 d

R ≤ 1200 N/mm²



Confezione
Packaging



Ø m7	D h6	l	L	pcs.	cod.	€ cad/each
3	6	28	66	1	013670300	121,708
3,1	6	28	66	1	013670310	121,708
3,2	6	28	66	1	013670320	121,708
3,3	6	28	66	1	013670330	121,708
3,4	6	28	66	1	013670340	121,708
3,5	6	28	66	1	013670350	121,708
3,6	6	28	66	1	013670360	121,708
3,7	6	28	66	1	013670370	121,708
3,8	6	36	74	1	013670380	121,708
3,9	6	36	74	1	013670390	121,708
4	6	36	74	1	013670400	130,975
4,1	6	36	74	1	013670410	130,975
4,2	6	36	74	1	013670420	130,975
4,3	6	36	74	1	013670430	130,975
4,4	6	36	74	1	013670440	130,975
4,5	6	36	74	1	013670450	130,975
4,6	6	36	74	1	013670460	130,975
4,7	6	44	82	1	013670470	130,975
4,8	6	44	82	1	013670480	130,975
4,9	6	44	82	1	013670490	130,975
5	6	44	82	1	013670500	130,975
5,1	6	44	82	1	013670510	130,975
5,2	6	44	82	1	013670520	130,975
5,3	6	44	82	1	013670530	130,975
5,4	6	44	82	1	013670540	130,975
5,5	6	44	82	1	013670550	130,975
5,6	6	44	82	1	013670560	130,975
5,7	6	44	82	1	013670570	130,975
5,8	6	44	82	1	013670580	130,975
5,9	6	44	82	1	013670590	130,975
6	6	44	82	1	013670600	130,975
6,1	8	53	91	1	013670610	144,678
6,2	8	53	91	1	013670620	144,678
6,3	8	53	91	1	013670630	144,678
6,4	8	53	91	1	013670640	144,678
6,5	8	53	91	1	013670650	144,678
6,6	8	53	91	1	013670660	144,678
6,7	8	53	91	1	013670670	144,678
6,8	8	53	91	1	013670680	144,678
6,9	8	53	91	1	013670690	144,678
7	8	53	91	1	013670700	144,678
7,1	8	53	91	1	013670710	144,678

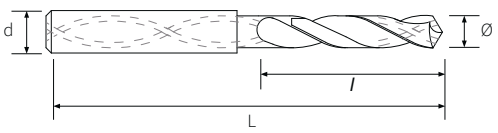
Ø m7	D h6	l	L	pcs.	cod.	€ cad/each
7,2	8	53	91	1	013670720	144,678
7,3	8	53	91	1	013670730	144,678
7,4	8	53	91	1	013670740	144,678
7,5	8	53	91	1	013670750	144,678
7,6	8	53	91	1	013670760	144,678
7,7	8	53	91	1	013670770	144,678
7,8	8	53	91	1	013670780	144,678
7,9	8	53	91	1	013670790	144,678
8	8	53	91	1	013670800	144,678
8,1	10	61	103	1	013670810	165,822
8,2	10	61	103	1	013670820	165,822
8,3	10	61	103	1	013670830	165,822
8,4	10	61	103	1	013670840	165,822
8,5	10	61	103	1	013670850	165,822
8,6	10	61	103	1	013670860	165,822
8,7	10	61	103	1	013670870	165,822
8,8	10	61	103	1	013670880	165,822
8,9	10	61	103	1	013670890	165,822
9	10	61	103	1	013670900	165,822
9,1	10	61	103	1	013670910	165,822
9,2	10	61	103	1	013670920	165,822
9,3	10	61	103	1	013670930	165,822
9,4	10	61	103	1	013670940	165,822
9,5	10	61	103	1	013670950	165,822
9,6	10	61	103	1	013670960	165,822
9,7	10	61	103	1	013670970	165,822
9,8	10	61	103	1	013670980	165,822
10	10	61	103	1	013671000	165,822
10,2	12	71	118	1	013671020	242,040
10,5	12	71	118	1	013671050	242,040
11	12	71	118	1	013671100	242,040
11,5	12	71	118	1	013671150	242,040
12	12	71	118	1	013671200	242,040
12,5	14	77	124	1	013671250	325,568
13	14	77	124	1	013671300	325,568
13,5	14	77	124	1	013671350	325,568
14	14	77	124	1	013671400	325,568
14,5	16	83	133	1	013671450	401,718
15	16	83	133	1	013671500	401,718
15,5	16	83	133	1	013671550	401,718
16	16	83	133	1	013671600	401,718

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

Titanio e superleghe
titanium and nickel-based super alloys



Profondità di foratura 5 Ø
Cutting depth 5 Ø

Acciai induriti, acciai per lavorazioni a caldo, acciai legati fino a 1200 N/mm², acciai dolci, bronzo, ghisa, leghe Al-Si.

Structural and case hardened steels, cast steels, heat treatable steels, alloyed steels up to 1200 N/mm², carbon steels, bronze, cast iron, high alloyed Al-Si alloys.

PUNTE ELICOIDALI CODOLO CONICO MORSE CON TAGLIENTI IN METALLO DURO

Morse taper shank twist drills with carbide tips

01213 | **HM HSS** | **DIN 345 FRESATA** *Milled*

Serie corta *Short serie*



W 27°

Carbide tip
HM/K20



<5 d

R ≤ 1100 N/mm²



Confezione
Packaging



Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
10	1	87	168	1	012131000	**93,222**
10,5	1	87	168	1	012131050	**93,222**
11	1	94	175	1	012131100	**93,222**
11,5	1	94	175	1	012131150	**97,335**
12	1	101	182	1	012131200	**97,335**
12,5	1	101	182	1	012131250	**104,031**
13	1	101	182	1	012131300	**104,031**
13,5	1	108	189	1	012131350	**120,515**
14	1	108	189	1	012131400	**120,515**
14,5	2	114	212	1	012131450	**123,601**
15,5	2	120	218	1	012131550	**128,752**
16	2	120	218	1	012131600	**128,752**
16,5	2	125	223	1	012131650	**141,113**
17	2	125	223	1	012131700	**141,113**
17,5	2	130	228	1	012131750	**141,113**
18	2	130	228	1	012131800	**141,113**
18,5	2	135	233	1	012131850	**149,351**
20	2	140	238	1	012132000	**191,587**
21	2	145	243	1	012132100	**206,005**
21,5	2	150	248	1	012132150	**211,157**
22	2	150	248	1	012132200	**211,157**
22,5	2	155	253	1	012132250	**216,309**
23,5	3	155	276	1	012132350	**224,547**
24	3	160	281	1	012132400	**224,547**
24,5	3	160	281	1	012132450	**236,906**
25	3	160	281	1	012132500	**236,906**
26,5	3	165	286	1	012132650	**306,949**
27	3	170	291	1	012132700	**306,949**
27,5	3	170	291	1	012132750	**323,424**
28	3	170	291	1	012132800	**323,424**
28,5	3	175	296	1	012132850	**360,507**
29,5	3	175	296	1	012132950	**388,314**
30,5	3	180	301	1	012133050	**407,590**
31	3	180	301	1	012133100	**407,590**
31,5	3	180	301	1	012133150	**453,300**
32	4	185	334	1	012133200	**453,300**
32,5	4	185	334	1	012133250	**459,965**
33	4	185	334	1	012133300	**459,965**
33,5	4	185	334	1	012133350	**470,443**
34,5	4	190	339	1	012133450	**479,965**
35	4	190	339	1	012133500	**479,965**

Applicazioni
Applications



Metalli
Metals



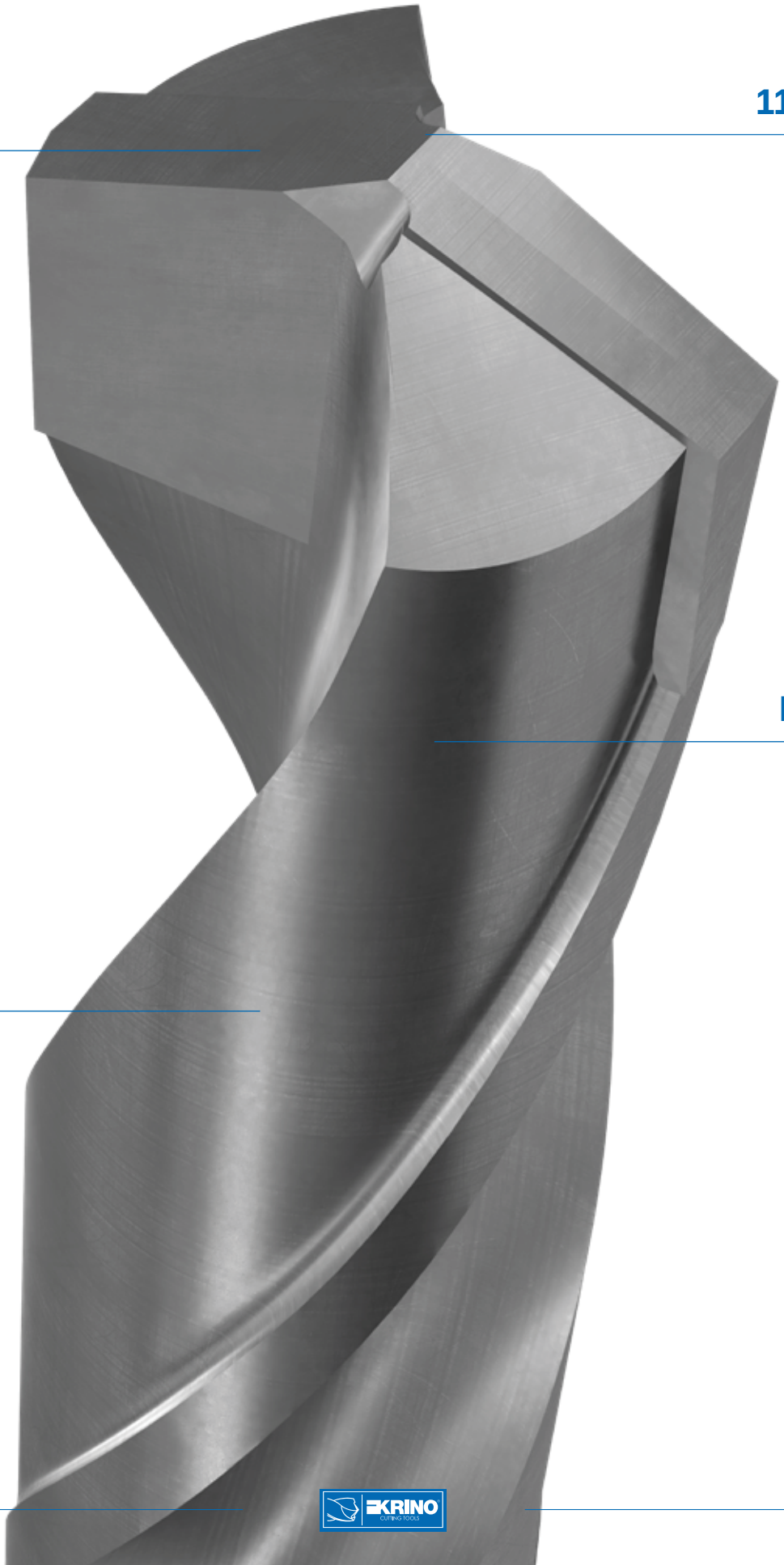
Acciaio
Steel



Emulsione
Lubrificant

Taglio di acciai duri con R ≤ 1100 N/mm², acciai per molle, ghisa temperata, molibdeno puro, bronzo duro, materie plastiche termoindurenti con azione abrasiva, materie sintetiche con fibre vetrose,...

Cut of hard steels R ≤ 1100 N/mm², spring steel, hard cast iron, Mo, hard bronze, abrasive thermosetting plastics, glass fiber reinforced plastics,...


HM/K20
118°
HSS
W 27°

PUNTE ELICOIDALI AL COBALTO 5%
CODOLO CONICO MORSE
Cobalt Morse taper shank twist drills

01150 | **HSS-CO 5%** | **DIN 345 FRESATA**

Serie corta
Short serie

130° **W 27°**

HV = 800÷860
AISI M35
DIN 1412 C

<5 d

R ≤ 1200 N/mm²



Confezione
Packaging



Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Emulsione *Lubrificant*

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non, con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
7	1	69	150	1	011500700	48,431
7,5	1	69	150	1	011500750	48,431
8	1	75	156	1	011500800	48,431
8,5	1	75	156	1	011500850	48,431
9	1	81	162	1	011500900	48,431
9,25	1	81	162	1	011500925	48,431
9,5	1	81	162	1	011500950	48,431
10	1	87	168	1	011501000	48,431
10,25	1	87	168	1	011501025	48,431
10,5	1	87	168	1	011501050	48,431
10,75	1	94	175	1	011501075	48,431
11	1	94	175	1	011501100	48,431
11,25	1	94	175	1	011501125	48,431
11,5	1	94	175	1	011501150	48,431
11,75	1	94	175	1	011501175	48,431
12	1	101	182	1	011501200	48,431
12,25	1	101	182	1	011501225	51,202
12,5	1	101	182	1	011501250	51,202
12,75	1	101	182	1	011501275	51,202
13	1	101	182	1	011501300	51,202
13,25	1	108	189	1	011501325	55,969
13,5	1	108	189	1	011501350	55,969
13,75	1	108	189	1	011501375	59,847
14	1	108	189	1	011501400	59,847
14,25	2	114	212	1	011501425	70,352
14,5	2	114	212	1	011501450	70,352
14,75	2	114	212	1	011501475	71,127
15	2	114	212	1	011501500	71,127
15,25	2	120	218	1	011501525	77,380
15,5	2	120	218	1	011501550	77,380
15,75	2	120	218	1	011501575	77,380
16	2	120	218	1	011501600	77,380
16,25	2	125	223	1	011501625	82,898
16,5	2	125	223	1	011501650	82,898
16,75	2	125	223	1	011501675	82,898
17	2	125	223	1	011501700	82,898
17,25	2	130	228	1	011501725	85,944
17,5	2	130	228	1	011501750	85,944
17,75	2	130	228	1	011501775	85,944
18	2	130	228	1	011501800	85,944
18,25	2	135	233	1	011501825	91,388
18,5	2	135	233	1	011501850	91,388
18,75	2	135	233	1	011501875	91,388
19	2	135	233	1	011501900	91,388
19,25	2	140	238	1	011501925	106,269
19,5	2	140	238	1	011501950	106,269
19,75	2	140	238	1	011501975	106,269
20	2	140	238	1	011502000	106,269
20,25	2	145	243	1	011502025	127,449
20,5	2	145	243	1	011502050	127,449
20,75	2	145	243	1	011502075	130,884
21	2	145	243	1	011502100	130,884
21,25	2	150	248	1	011502125	143,098
21,5	2	150	248	1	011502150	143,098
21,75	2	150	248	1	011502175	143,098
22	2	150	248	1	011502200	143,098
22,25	2	155	248	1	011502225	151,021
22,5	2	155	253	1	011502250	151,021
22,75	2	155	253	1	011502275	164,319
23	2	155	253	1	011502300	164,319
23,25	3	155	276	1	011502325	166,979
23,5	3	155	276	1	011502350	166,979

Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
23,75	3	160	281	1	011502375	**182,861**
24	3	160	281	1	011502400	**182,861**
24,25	3	160	281	1	011502425	**188,147**
24,5	3	160	281	1	011502450	**188,147**
24,75	3	160	281	1	011502475	**188,147**
25	3	160	281	1	011502500	**188,147**
25,25	3	165	286	1	011502525	**212,018**
25,5	3	165	286	1	011502550	**212,018**
25,75	3	165	286	1	011502575	**214,679**
26	3	165	286	1	011502600	**214,679**
26,25	3	165	286	1	011502625	**217,283**
26,5	3	165	286	1	011502650	**217,283**
26,75	3	170	291	1	011502675	**230,549**
27	3	170	291	1	011502700	**230,549**
27,25	3	170	291	1	011502725	**238,485**
27,5	3	170	291	1	011502750	**238,485**
27,75	3	170	291	1	011502775	**238,485**
28	3	170	291	1	011502800	**238,485**
28,25	3	175	296	1	011502825	**255,142**
28,5	3	175	296	1	011502850	**255,142**
28,75	3	175	296	1	011502875	**259,685**
29	3	175	296	1	011502900	**259,685**
29,25	3	175	296	1	011502925	**259,685**
29,5	3	175	296	1	011502950	**259,685**
29,75	3	175	296	1	011502975	**272,917**
30	3	175	296	1	011503000	**272,917**
30,25	3	180	301	1	011503025	**330,919**
30,5	3	180	301	1	011503050	**330,919**
30,75	3	180	301	1	011503075	**330,919**
31	3	180	301	1	011503100	**330,919**
31,25	3	180	301	1	011503125	**355,793**
31,5	3	180	301	1	011503150	**355,793**
31,75	3	185	306	1	011503175	**355,793**
32	4	185	334	1	011503200	**355,793**
32,25	4	185	334	1	011503225	**372,978**
32,5	4	185	334	1	011503250	**372,978**
32,75	4	185	334	1	011503275	**372,978**
33	4	185	334	1	011503300	**372,978**
33,25	4	185	334	1	011503325	**404,876**
33,5	4	185	334	1	011503350	**404,876**
33,75	4	185	334	1	011503375	**404,876**
34	4	190	339	1	011503400	**404,876**
34,25	4	190	339	1	011503425	**419,598**
34,5	4	190	339	1	011503450	**419,598**
34,75	4	190	339	1	011503475	**419,598**
35	4	190	339	1	011503500	**419,598**
35,25	4	190	339	1	011503525	**471,120**
35,5	4	190	339	1	011503550	**471,120**
35,75	4	190	339	1	011503575	**471,120**
36	4	195	344	1	011503600	**471,120**
36,25	4	195	344	1	011503625	**501,791**
36,5	4	195	344	1	011503650	**501,791**
36,75	4	195	344	1	011503675	**501,791**
37	4	195	344	1	011503700	**501,791**
37,25	4	195	344	1	011503725	**539,825**
37,5	4	195	344	1	011503750	**539,825**
37,75	4	195	344	1	011503775	**539,825**
38	4	200	349	1	011503800	**539,825**
38,25	4	200	349	1	011503825	**634,303**
38,5	4	200	349	1	011503850	**634,303**
38,75	4	200	349	1	011503875	**634,303**
39	4	200	349	1	011503900	**634,303**
39,25	4	200	349	1	011503925	**634,303**
39,5	4	200	349	1	011503950	**634,303**
39,75	4	200	349	1	011503975	**634,303**
40	4	200	349	1	011504000	**634,303**
40,5	4	205	354	1	011504050	**660,892**
41	4	205	354	1	011504100	**729,485**
41,5	4	205	354	1	011504150	**729,485**
42	4	205	354	1	011504200	**760,667**
42,5	4	205	354	1	011504250	**760,667**
43	4	210	359	1	011504300	**835,430**
43,5	4	210	359	1	011504350	**835,430**
44	4	210	359	1	011504400	**854,180**
44,5	4	210	359	1	011504450	**854,180**
45	4	210	359	1	011504500	**910,284**
45,5	4	215	364	1	011504550	**910,284**
46	4	215	364	1	011504600	**916,534**
46,5	4	215	364	1	011504650	**916,534**
47	4	215	364	1	011504700	**972,627**
47,5	4	215	364	1	011504750	**972,627**
48	4	220	369	1	011504800	**1.059,890**
48,5	4	220	369	1	011504850	**1.059,890**
49	4	220	369	1	011504900	**1.084,823**
49,5	4	220	369	1	011504950	**1.084,823**
50	4	220	369	1	011505000	**1.109,744**
50,5	4	225	374	1	011505050	**1.109,744**
51	4	225	412	1	011505100	**1.353,442**
51,5	5	225	412	1	011505150	**1.353,442**
52	5	225	412	1	011505200	**1.407,992**
52,5	5	225	412	1	011505250	**1.407,992**
53	5	225	412	1	011505300	**1.428,785**
53,5	5	230	417	1	011505350	**1.428,785**
54	5	230	417	1	011505400	**1.532,689**
54,5	5	230	417	1	011505450	**1.532,689**
55	5	230	417	1	011505500	**1.558,665**
55,5	5	230	417	1	011505550	**1.558,665**
56	5	230	417	1	011505600	**1.558,665**
56,5	5	235	422	1	011505650	**1.558,665**
57	5	235	422	1	011505700	**1.652,190**
57,5	5	235	422	1	011505750	**1.652,190**
58	5	235	422	1	011505800	**1.745,715**
58,5	5	235	422	1	011505850	**1.745,715**
59	5	235	422	1	011505900	**1.745,715**
59,5	5	235	422	1	011505950	**1.808,057**
60	5	235	422	1	011506000	**1.808,057**

PUNTE ELICOIDALI CODOLO CONICO MORSE, ESECUZIONE FRESATA

Morse taper shank twist drills

01097 | HSS | DIN 345 FRESATA *Milled*

Serie corta *Short serie*

118° W 27°

HV = 820

<5 d

R ≤ 800 N/mm²



Confezione *Packaging*



Applicazioni *Applications*

- Metalli *Metals*
- Acciaio *Steel*
- Emulsione *Lubrificant*

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².

Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
5	1	52	133	1	010970500	16,625
5,5	1	57	138	1	010970550	22,222
6	1	57	138	1	010970600	16,625
6,25	1	63	144	1	010970625	18,299
6,5	1	63	144	1	010970650	16,625
6,75	1	69	150	1	010970675	18,299
7	1	69	150	1	010970700	16,625
7,25	1	69	150	1	010970725	18,299
7,5	1	69	150	1	010970750	16,625
7,75	1	75	156	1	010970775	18,299
8	1	75	156	1	010970800	16,625
8,25	1	75	156	1	010970825	18,299
8,5	1	75	156	1	010970850	16,625
8,75	1	81	162	1	010970875	18,299
9	1	81	162	1	010970900	16,625
9,25	1	81	162	1	010970925	18,299
9,5	1	81	162	1	010970950	16,625
9,75	1	87	168	1	010970975	18,299
10	1	87	168	1	010971000	16,625
10,25	1	87	168	1	010971025	20,052
10,5	1	87	168	1	010971050	18,220
10,75	1	94	175	1	010971075	20,052
11	1	94	175	1	010971100	18,220
11,25	1	94	175	1	010971125	20,052
11,5	1	94	175	1	010971150	18,220
11,75	1	94	175	1	010971175	21,688
12	1	101	182	1	010971200	19,719
12,25	1	101	182	1	010971225	21,688
12,5	1	101	182	1	010971250	19,719
12,75	1	101	182	1	010971275	23,906
13	1	101	182	1	010971300	21,727
13,25	1	108	189	1	010971325	23,906
13,5	1	108	189	1	010971350	21,727
13,75	1	108	189	1	010971375	27,018
14	1	108	189	1	010971400	24,571
14,25	2	114	212	1	010971425	27,018
14,5	2	114	212	1	010971450	24,571
14,5	2	192	212	1	010971450C192	39,000
14,75	2	114	212	1	010971475	27,018
15	2	114	212	1	010971500	24,571
15,25	2	120	218	1	010971525	27,018
15,5	2	120	218	1	010971550	24,571
15,75	2	120	218	1	010971575	30,671
16	2	120	218	1	010971600	27,878
16,25	2	125	223	1	010971625	33,061
16,5	2	125	223	1	010971650	30,045
16,75	2	125	223	1	010971675	35,375
17	2	125	223	1	010971700	32,157
17,25	2	130	228	1	010971725	37,156
17,5	2	130	228	1	010971750	33,779
17,75	2	130	228	1	010971775	39,016
18	2	130	228	1	010971800	35,455
18,25	2	135	233	1	010971825	39,016
18,5	2	135	233	1	010971850	35,455
18,75	2	135	233	1	010971875	43,016
19	2	135	233	1	010971900	39,107
19,25	2	140	238	1	010971925	44,265
19,5	2	140	238	1	010971950	40,251
19,75	2	140	238	1	010971975	45,606
20	2	140	238	1	010972000	41,461
20,25	2	145	243	1	010972025	45,606
20,5	2	145	243	1	010972050	41,461
20,75	2	145	243	1	010972075	48,835

Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
21	2	145	243	1	010972100	44,410
21,25	2	150	248	1	010972125	48,835
21,5	2	150	248	1	010972150	44,410
21,75	2	150	248	1	010972175	50,124
22	2	150	248	1	010972200	45,566
22,25	2	155	248	1	010972225	50,124
22,5	2	155	253	1	010972250	45,566
22,75	2	155	253	1	010972275	55,268
23	2	155	253	1	010972300	50,231
23,25	3	155	276	1	010972325	67,985
23,5	3	155	276	1	010972350	61,806
23,75	3	160	281	1	010972375	67,985
24	3	160	281	1	010972400	61,806
24,25	3	160	281	1	010972425	67,985
24,5	3	160	281	1	010972450	61,806
24,75	3	160	281	1	010972475	69,406
25	3	160	281	1	010972500	63,095
25,25	3	165	286	1	010972525	69,406
25,5	3	165	286	1	010972550	63,095
25,75	3	165	286	1	010972575	86,162
26	3	165	286	1	010972600	78,337
26,25	3	165	286	1	010972625	86,162
26,5	3	165	286	1	010972650	78,337
26,75	3	170	291	1	010972675	89,618
27	3	170	291	1	010972700	81,472
27,25	3	170	291	1	010972725	89,618
27,5	3	170	291	1	010972750	81,472
27,75	3	170	291	1	010972775	93,193
28	3	170	291	1	010972800	84,729
28,25	3	175	296	1	010972825	93,193
28,5	3	175	296	1	010972850	84,729
28,75	3	175	296	1	010972875	107,185
29	3	175	296	1	010972900	97,446
29,25	3	175	296	1	010972925	107,185
29,5	3	175	296	1	010972950	97,446
29,75	3	175	296	1	010972975	110,415
30	3	175	296	1	010973000	100,381
30,25	3	180	301	1	010973025	110,415
30,5	3	180	301	1	010973050	100,381
30,75	3	180	301	1	010973075	123,664
31	3	180	301	1	010973100	112,421
31,25	3	180	301	1	010973125	130,082
31,5	3	180	301	1	010973150	118,241
31,75	3	185	306	1	010973175	132,673
32	4	185	334	1	010973200	120,620
32,25	4	185	334	1	010973225	132,673
32,5	4	185	334	1	010973250	120,620
32,75	4	185	334	1	010973275	132,673
33	4	185	334	1	010973300	120,620
33,25	4	185	334	1	010973325	153,788
33,5	4	185	334	1	010973350	139,663
33,75	4	185	334	1	010973375	158,106
34	4	190	339	1	010973400	142,454
34,25	4	190	339	1	010973425	168,167
34,5	4	190	339	1	010973450	153,788
34,75	4	190	339	1	010973475	176,791
35	4	190	339	1	010973500	160,976
35,25	4	190	339	1	010973525	176,791
35,5	4	190	339	1	010973550	160,976
35,75	4	190	339	1	010973575	204,100
36	4	195	344	1	010973600	185,416
36,25	4	195	344	1	010973625	204,100
36,5	4	195	344	1	010973650	185,416

Serie corta
Short serie

Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
36,75	4	195	344	1	010973675	204,100
37	4	195	344	1	010973700	185,416
37,25	4	195	344	1	010973725	204,100
37,5	4	195	344	1	010973750	185,416
37,75	4	195	344	1	010973775	226,647
38	4	200	349	1	010973800	205,921
38,25	4	200	349	1	010973825	226,647
38,5	4	200	349	1	010973850	205,921
38,75	4	200	349	1	010973875	226,647
39	4	200	349	1	010973900	205,921
39,25	4	200	349	1	010973925	226,647
39,5	4	200	349	1	010973950	205,921
39,75	4	200	349	1	010973975	226,647
40	4	200	349	1	010974000	205,921
40,5	4	205	354	1	010974050	247,383
41	4	205	354	1	010974100	247,383
41,5	4	205	354	1	010974150	254,283
42	4	205	354	1	010974200	254,283
42,5	4	205	354	1	010974250	254,283
43	4	210	359	1	010974300	254,283
43,5	4	210	359	1	010974350	254,283
44	4	210	359	1	010974400	265,349
44,5	4	210	359	1	010974450	265,349
45	4	210	359	1	010974500	277,780
45,5	4	215	364	1	010974550	277,780
46	4	215	364	1	010974600	277,780
46,5	4	215	364	1	010974650	277,780
47	4	215	364	1	010974700	306,813
47,5	4	215	364	1	010974750	306,813
48	4	220	369	1	010974800	306,813
48,5	4	220	369	1	010974850	337,210
49	4	220	369	1	010974900	337,210
49,5	4	220	369	1	010974950	348,263
50	4	220	369	1	010975000	348,263
50,5	4	225	374	1	010975050	415,983
51	5	225	412	1	010975100	415,983
52	5	225	412	1	010975200	415,983
52,5	5	225	412	1	010975250	415,983
53	5	225	412	1	010975300	415,983
53,5	5	230	417	1	010975350	507,201
54	5	230	417	1	010975400	507,201
54,5	5	230	417	1	010975450	507,201
55	5	230	417	1	010975500	507,201
55,5	5	230	417	1	010975550	507,201
56	5	230	417	1	010975600	583,214
56,5	5	235	422	1	010975650	583,214
57	5	235	422	1	010975700	583,214
57,5	5	235	422	1	010975750	583,214
58	5	235	422	1	010975800	583,214
58,5	5	235	422	1	010975850	583,214
59	5	235	422	1	010975900	583,214
59,5	5	235	422	1	010975950	583,214
60	5	235	422	1	010976000	583,214
61	5	240	427	1	010976100	769,777
62	5	240	427	1	010976200	769,777
63	5	240	427	1	010976300	769,777
64	5	245	432	1	010976400	769,777
65	5	245	432	1	010976500	769,777
66	5	245	432	1	010976600	978,459
67	5	245	432	1	010976700	978,459
68	5	250	437	1	010976800	978,459
69	5	250	437	1	010976900	978,459
70	5	250	437	1	010977000	1.121,848
71	5	250	437	1	010977100	1.162,957
72	5	255	442	1	010977200	1.222,874
73	5	255	442	1	010977300	1.268,688
74	5	255	442	1	010977400	1.342,693
75	5	255	442	1	010977500	1.367,358
76	5	260	447	1	010977600	1.487,185
77	6	260	514	1	010977700	1.534,169
78	6	260	514	1	010977800	1.582,337
79	6	260	514	1	010977900	1.653,986
80	6	260	514	1	010978000	1.702,153
81	6	265	519	1	010978100	1.798,479
82	6	265	519	1	010978200	1.821,971
83	6	265	519	1	010978300	1.893,630
84	6	265	519	1	010978400	1.893,630
85	6	265	519	1	010978500	1.918,295
86	6	270	524	1	010978600	1.966,464
87	6	270	524	1	010978700	1.989,954
88	6	270	524	1	010978800	2.038,123
89	6	270	524	1	010978900	2.086,279
90	6	270	524	1	010979000	2.086,279
91	6	275	529	1	010979100	2.253,092
92	6	275	529	1	010979200	2.349,416
93	6	275	529	1	010979300	2.372,909
94	6	275	529	1	010979400	2.372,909
95	6	275	529	1	010979500	2.421,076
96	6	280	534	1	010979600	2.490,380
97	6	280	534	1	010979700	2.540,892
98	6	280	534	1	010979800	2.589,060
99	6	280	534	1	010979900	2.777,008
100	6	280	534	1	0109710000	4.647,696

PUNTE ELICOIDALI CODOLO CONICO MORSE, SERIE LUNGA, ESECUZIONE FRESATA

Morse taper shank twist drills, long serie

01028 | HSS | DIN 341 FRESATA *Milled*

Serie lunga *Long serie*



W 27°



HV= 820



<8 d

R ≤ 800 N/mm²

Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



Confezione
Packaging



Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
8	1	100	181	1	010280800	30,589
8,5	1	100	181	1	010280850	31,541
9	1	107	188	1	010280900	35,029
9,5	1	107	188	1	010280950	35,029
10	1	116	197	1	010281000	35,523
10,25	1	116	197	1	010281025	37,335
10,5	1	116	197	1	010281050	37,335
11	1	125	206	1	010281100	38,883
11,5	1	125	206	1	010281150	41,832
12	1	134	215	1	010281200	43,771
12,25	1	134	215	1	010281225	45,689
12,5	1	134	215	1	010281250	45,689
13	1	134	215	1	010281300	45,689
13,25	1	142	223	1	010281325	49,542
13,5	1	142	223	1	010281350	49,542
14	1	142	223	1	010281400	52,594
14,5	2	147	245	1	010281450	55,487
15	2	147	245	1	010281500	61,143
15,5	2	153	251	1	010281550	63,575
16	2	153	251	1	010281600	63,575
16,5	2	159	257	1	010281650	67,328
17	2	159	257	1	010281700	67,328
17,5	2	165	263	1	010281750	71,067
18	2	165	263	1	010281800	76,070
18,5	2	171	269	1	010281850	79,168
19	2	171	269	1	010281900	79,168
19,5	2	177	275	1	010281950	82,645
20	2	177	275	1	010282000	82,645
20,5	2	184	282	1	010282050	96,034
21	2	184	282	1	010282100	96,034
21,5	2	191	289	1	010282150	104,788
22	2	191	289	1	010282200	104,788
22,5	2	198	296	1	010282250	110,962
23	2	198	296	1	010282300	119,716
23,5	3	198	319	1	010282350	123,582
24	3	206	327	1	010282400	134,516
24,5	3	206	327	1	010282450	139,680
25	3	206	327	1	010282500	148,033
25,5	3	214	335	1	010282550	154,458
26	3	214	335	1	010282600	154,458
26,5	3	214	335	1	010282650	171,015
27	3	222	343	1	010282700	171,015
27,5	3	222	343	1	010282750	186,395
28	3	222	343	1	010282800	186,395
28,5	3	230	351	1	010282850	201,793
29	3	230	351	1	010282900	201,793
29,5	3	230	351	1	010282950	212,045
30	3	230	351	1	010283000	212,045
31	3	239	360	1	010283100	239,411
32	4	248	397	1	010283200	262,561
33	4	248	397	1	010283300	294,750
34	4	257	406	1	010283400	315,073
35	4	257	406	1	010283500	321,856
35,5	4	267	416	1	010283550	347,810
36	4	267	416	1	010283600	348,958
36,5	4	267	416	1	010283650	350,187
37	4	267	416	1	010283700	350,084
37,5	4	267	416	1	010283750	368,948
38	4	277	426	1	010283800	367,833
39	4	277	426	1	010283900	400,098
40	4	277	426	1	010284000	413,006
41	4	287	436	1	010284100	450,110
42	4	287	436	1	010284200	474,308
43	4	298	447	1	010284300	524,322
44	4	298	447	1	010284400	535,613
45	4	298	447	1	010284500	574,336
46	4	310	459	1	010284600	587,231
47	4	310	459	1	010284700	611,429
48	4	321	470	1	010284800	663,061
49	4	321	470	1	010284900	679,194
50	4	321	470	1	010285000	687,259

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².

PUNTE ELICOIDALI CODOLO CONICO MORSE CON FORI DI LUBROREFRIGERAZIONE

Morse taper shank twist drills with internal coolant

01069 | HSS | DIN 341 FRESATA *Milled*

Serie lunga - con fori
Long serie - with holes

118° W 27°

AISI M2
HV = 820

<10 d

R ≤ 800 N/mm²



Confezione
Packaging



Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
10	2	116	233	1	010691000	278,704
11	2	125	242	1	010691100	307,136
12	2	134	251	1	010691200	298,429
13	2	134	251	1	010691300	295,216
14	2	142	259	1	010691400	309,846
15	2	147	264	1	010691500	359,271
16	2	153	270	1	010691600	367,328
17	2	159	276	1	010691700	377,000
18	2	165	282	1	010691800	386,203
19	3	171	307	1	010691900	536,191
20	3	177	313	1	010692000	544,697
21	3	184	320	1	010692100	558,753
22	3	191	327	1	010692200	551,180
23	3	198	334	1	010692300	650,087
24	3	206	342	1	010692400	646,200
25	3	206	342	1	010692500	695,783
26	3	214	335	1	010692600	695,783
27	3	222	343	1	010692700	842,046
28	3	222	343	1	010692800	837,221
29	3	230	351	1	010692900	915,021
30	3	230	351	1	010693000	886,858
32	4	248	397	1	010693200	986,024

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².

Applicazioni
Applications

Metalli
Metals

Acciaio
Steel

PUNTE ELICOIDALI CODOLO CONICO MORSE, SERIE EXTRA LUNGA, ESECUZIONE FRESATA

Morse taper shank twist drills, extra long serie

01088 | HSS | **DIN 1870/1 FRESATA**

Milled

Serie extra lunga

Extra long serie

118° W 27°

HV= 820

<10 d

R ≤ 800 N/mm²



Confezione
Packaging



Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
8	1	165	265	1	010880800	87,136
8,5	1	165	265	1	010880850	97,668
9	1	175	275	1	010880900	97,668
9,5	1	175	275	1	010880950	105,327
10	1	185	285	1	010881000	105,327
10,5	1	185	285	1	010881050	120,650
11	1	195	300	1	010881100	120,650
11,5	1	195	300	1	010881150	132,139
12	1	205	310	1	010881200	126,393
12,5	1	205	310	1	010881250	128,308
13	1	205	310	1	010881300	126,393
13,5	1	220	325	1	010881350	141,715
14	1	220	325	1	010881400	141,715
14,5	2	220	340	1	010881450	158,950
15	2	220	340	1	010881500	168,524
15,5	2	230	355	1	010881550	173,663
16	2	230	355	1	010881600	168,119
16,5	2	230	355	1	010881650	169,966
17	2	230	355	1	010881700	188,441
17,5	2	245	370	1	010881750	206,916
18	2	245	370	1	010881800	203,221
18,5	2	245	370	1	010881850	205,069
19	2	245	370	1	010881900	205,069
19,5	2	260	385	1	010881950	229,086
20	2	260	385	1	010882000	223,542
20,5	2	260	385	1	010882050	272,050
21	2	260	385	1	010882100	251,774
21,5	2	270	405	1	010882150	295,707
22	2	270	405	1	010882200	266,981
22,5	2	270	405	1	010882250	322,743
23	2	270	405	1	010882300	305,845
23,5	3	270	425	1	010882350	381,884
24	3	290	440	1	010882400	348,090

Ø h8	M.K.	l	L	pcs.	cod.	€ cad/each
24,5	3	290	440	1	010882450	405,541
25	3	290	440	1	010882500	368,367
25,5	3	290	440	1	010882550	439,336
26	3	290	440	1	010882600	395,403
26,5	3	290	440	1	010882650	466,372
27	3	305	460	1	010882700	408,920
27,5	3	305	460	1	010882750	483,270
28	3	305	460	1	010882800	439,336
28,5	3	305	460	1	010882850	517,065
29	3	305	460	1	010882900	466,372
29,5	3	305	460	1	010882950	540,721
30	3	305	460	1	010883000	479,891
31	3	320	480	1	010883100	581,276
32	4	320	505	1	010883200	594,794
33	4	320	505	1	010883300	621,830
34	4	340	530	1	010883400	672,523
35	4	340	530	1	010883500	682,661
36	4	340	530	1	010883600	726,594
37	4	340	530	1	010883700	733,352
38	4	360	555	1	010883800	777,286
39	4	360	555	1	010883900	817,841
40	4	360	555	1	010884000	821,220
41	4	360	555	1	010884100	878,672
42	4	360	555	1	010884200	895,570
43	4	385	585	1	010884300	980,056
44	4	385	585	1	010884400	980,056
45	4	385	585	1	010884500	1.030,749
46	4	385	585	1	010884600	1.081,442
47	4	385	585	1	010884700	1.132,134
48	4	405	605	1	010884800	1.233,520
49	4	405	605	1	010884900	1.284,212
50	4	405	605	1	010885000	1.267,314

Applicazioni
Applications

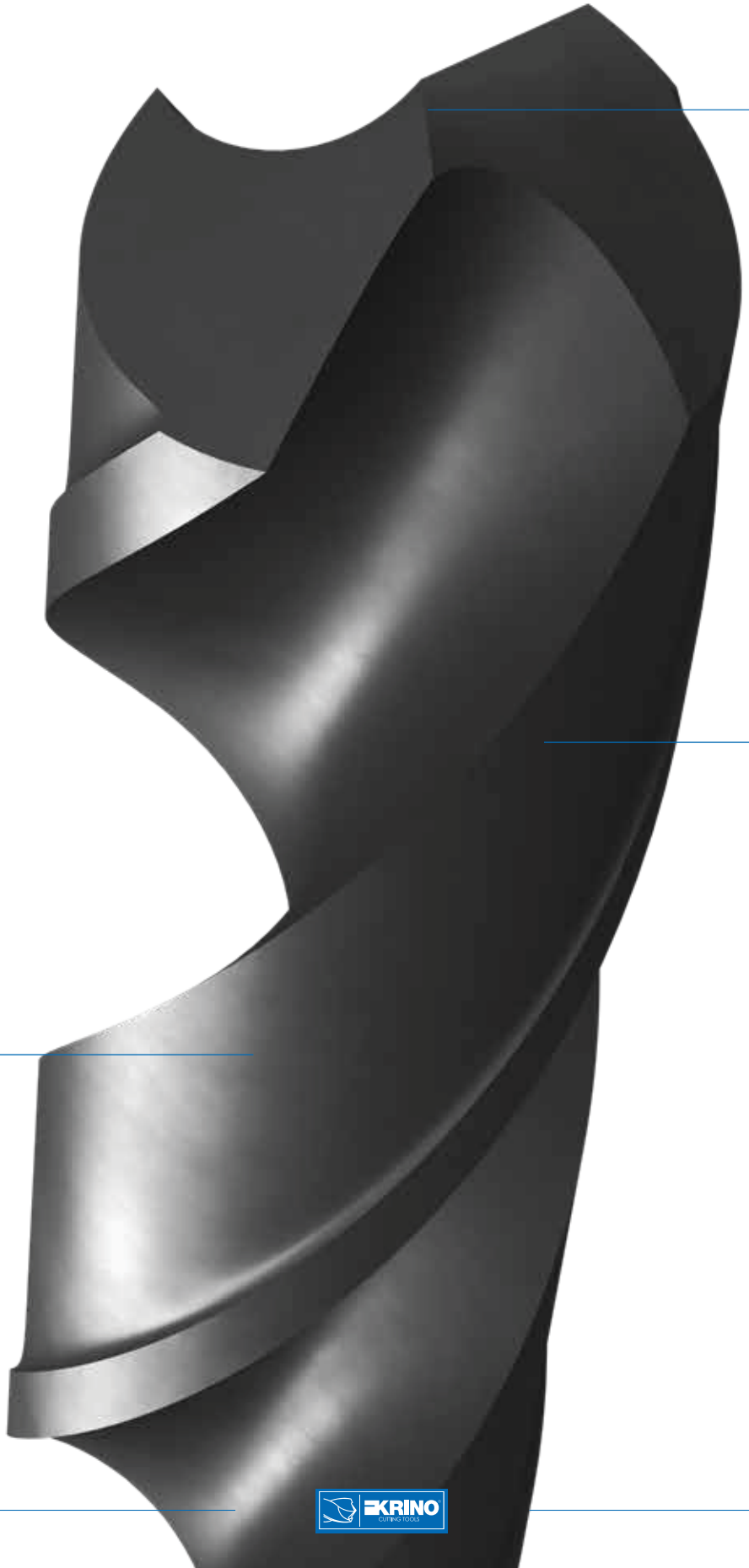
Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².


118°
HSS
W 27°

PUNTE ELICOIDALI CODOLO CONICO MORSE, ESECUZIONE RULLATA

Morse taper shank twist drills

01025 | **HSS-R** | **DIN 345** **ESECUZIONE RULLATA** Rolled | **Serie corta** *Short serie*



W 27°



HV = 750÷820



<5 d

R ≤ 650 N/mm²



Confezione
Packaging



Applicazioni
Applications



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Taglio dei materiali con R ≤ 650 N/mm² quali acciai legati, ghise tutti i metalli in genere, la grafite.
Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 650 N/mm².

Ø	M.K.	l	L	pcs.	cod.	€ cad/each
5	1	52	133	1	010250500	10,510
6	1	57	138	1	010250600	10,510
6,25	1	63	144	1	010250625	10,510
6,5	1	63	144	1	010250650	10,510
6,75	1	69	150	1	010250675	10,510
7	1	69	150	1	010250700	10,510
7,25	1	69	150	1	010250725	10,510
7,5	1	69	150	1	010250750	10,510
7,75	1	75	156	1	010250775	10,510
8	1	75	156	1	010250800	10,510
8,25	1	75	156	1	010250825	10,414
8,5	1	75	156	1	010250850	10,414
8,75	1	81	162	1	010250875	10,414
9	1	81	162	1	010250900	10,414
9,25	1	81	162	1	010250925	10,414
9,5	1	81	162	1	010250950	10,414
9,75	1	87	168	1	010250975	10,414
10	1	87	168	1	010251000	10,414
10,25	1	87	168	1	010251025	10,829
10,5	1	87	168	1	010251050	10,829
10,75	1	94	175	1	010251075	10,829
11	1	94	175	1	010251100	10,829
11,25	1	94	175	1	010251125	11,586
11,5	1	94	175	1	010251150	11,586
11,75	1	94	175	1	010251175	11,586
12	1	101	182	1	010251200	11,586
12,25	1	101	182	1	010251225	12,042
12,5	1	101	182	1	010251250	12,042
12,75	1	101	182	1	010251275	12,317
13	1	101	182	1	010251300	12,317
13,25	1	108	189	1	010251325	17,451
13,5	1	108	189	1	010251350	14,806
13,75	1	108	189	1	010251375	17,451
14	1	108	189	1	010251400	14,806
14,25	2	114	212	1	010251425	18,833
14,5	2	114	212	1	010251450	16,004
14,75	2	114	212	1	010251475	20,580
15	2	114	212	1	010251500	17,451
15,25	2	120	218	1	010251525	20,840
15,5	2	120	218	1	010251550	17,752
15,75	2	120	218	1	010251575	20,840
16	2	120	218	1	010251600	17,752
16,25	2	125	223	1	010251625	23,538
16,5	2	125	223	1	010251650	19,967
16,75	2	125	223	1	010251675	23,538
17	2	125	223	1	010251700	19,967
17,25	2	130	228	1	010251725	25,454
17,5	2	130	228	1	010251750	21,584
17,75	2	130	228	1	010251775	25,454
18	2	130	228	1	010251800	21,584
18,25	2	135	233	1	010251825	26,822
18,5	2	135	233	1	010251850	22,690
18,75	2	135	233	1	010251875	26,822
19	2	135	233	1	010251900	22,690
19,25	2	140	238	1	010251925	27,824
19,5	2	140	238	1	010251950	23,615
19,75	2	140	238	1	010251975	27,824
20	2	140	238	1	010252000	24,241
20,25	2	145	243	1	010252025	33,835
20,5	2	145	243	1	010252050	29,193
20,75	2	145	243	1	010252075	33,835
21	2	145	243	1	010252100	30,066
21,25	2	150	248	1	010252125	35,449
21,5	2	150	248	1	010252150	30,706
21,75	2	150	248	1	010252175	35,449
22	2	150	248	1	010252200	30,706
22,25	2	150	248	1	010252225	40,077
22,5	2	155	253	1	010252250	34,657
22,75	2	155	253	1	010252275	40,077
23	2	155	253	1	010252300	34,657
23,25	3	155	276	1	010252325	45,487
23,5	3	155	276	1	010252350	41,732
23,75	3	160	281	1	010252375	45,487
24	3	160	281	1	010252400	41,732
24,25	3	160	281	1	010252425	48,235
24,5	3	160	281	1	010252450	43,400
24,75	3	160	281	1	010252475	48,235
25	3	160	281	1	010252500	43,400
25,25	3	165	286	1	010252525	47,910
25,5	3	165	286	1	010252550	47,910
25,75	3	165	286	1	010252575	58,050
26	3	165	286	1	010252600	52,784
26,25	3	165	286	1	010252625	59,782
26,5	3	165	286	1	010252650	54,361
26,75	3	170	291	1	010252675	55,259
27	3	170	291	1	010252700	55,259
27,25	3	170	291	1	010252725	64,109
27,5	3	170	291	1	010252750	58,284
27,75	3	170	291	1	010252775	64,109
28	3	170	291	1	010252800	58,284
28,25	3	175	296	1	010252825	69,063
28,5	3	175	296	1	010252850	62,741
28,75	3	175	296	1	010252875	73,076
29	3	175	296	1	010252900	66,442
29,25	3	175	296	1	010252925	75,318
29,5	3	175	296	1	010252950	68,463
29,75	3	175	296	1	010252975	75,318
30	3	175	296	1	010253000	68,463
30,25	3	180	301	1	010253025	86,266
30,5	3	180	301	1	010253050	82,146
30,75	3	180	301	1	010253075	86,266
31	3	180	301	1	010253100	82,146
31,25	3	180	301	1	010253125	92,732
31,5	3	180	301	1	010253150	88,312
31,75	3	185	306	1	010253175	112,214
32	4	185	334	1	010253200	112,214
32,25	4	185	334	1	010253225	115,595
32,5	4	185	334	1	010253250	115,595
32,75	4	185	334	1	010253275	118,444
33	4	185	334	1	010253300	118,444
33,25	4	185	334	1	010253325	123,175
33,5	4	185	334	1	010253350	123,175
33,75	4	185	334	1	010253375	129,340
34	4	190	339	1	010253400	129,340
34,25	4	190	339	1	010253425	133,224
34,5	4	190	339	1	010253450	133,224
34,75	4	190	339	1	010253475	139,558
35	4	190	339	1	010253500	139,558
35,25	4	190	339	1	010253525	143,779
35,5	4	190	339	1	010253550	143,779
35,75	4	190	339	1	010253575	162,103
36	4	195	344	1	010253600	162,103
36,25	4	195	344	1	010253625	164,932
36,5	4	195	344	1	010253650	164,932
36,75	4	195	344	1	010253675	164,932
37	4	195	344	1	010253700	164,932

Ø	M.K.	l	L	pcs.	cod.	€ cad/each
37,25	4	195	344	1	010253725	**167,748**
37,5	4	195	344	1	010253750	**167,748**
37,75	4	195	344	1	010253775	**181,851**
38	4	200	349	1	010253800	**181,851**
38,25	4	200	349	1	010253825	**184,663**
38,5	4	200	349	1	010253850	**184,663**
38,75	4	200	349	1	010253875	**184,663**
39	4	200	349	1	010253900	**184,663**
39,25	4	200	349	1	010253925	**188,888**
39,5	4	200	349	1	010253950	**188,888**
39,75	4	200	349	1	010253975	**188,888**
40	4	200	349	1	010254000	**188,888**
40,25	4	205	354	1	010254025	**225,549**
40,5	4	205	354	1	010254050	**225,549**
40,75	4	205	354	1	010254075	**225,549**
41	4	205	354	1	010254100	**225,549**
41,25	4	205	354	1	010254125	**232,587**
41,5	4	205	354	1	010254150	**232,587**
41,75	4	205	354	1	010254175	**232,587**
42	4	205	354	1	010254200	**232,587**
42,25	4	205	354	1	010254225	**235,415**
42,5	4	205	354	1	010254250	**235,415**
42,75	4	205	354	1	010254275	**235,415**
43	4	210	359	1	010254300	**235,415**
43,25	4	210	359	1	010254325	**239,637**
43,5	4	210	359	1	010254350	**239,637**
43,75	4	210	359	1	010254375	**239,637**
44	4	210	359	1	010254400	**239,637**
44,25	4	210	359	1	010254425	**248,097**
44,5	4	210	359	1	010254450	**248,097**
44,75	4	210	359	1	010254475	**248,097**
45	4	210	359	1	010254500	**248,097**
45,25	4	215	364	1	010254525	**253,739**
45,5	4	215	364	1	010254550	**253,739**
45,75	4	215	364	1	010254575	**253,739**
46	4	215	364	1	010254600	**253,739**
46,25	4	215	364	1	010254625	**287,573**
46,5	4	215	364	1	010254650	**287,573**
46,75	4	215	364	1	010254675	**287,573**
47	4	215	364	1	010254700	**287,573**
47,25	4	215	364	1	010254725	**294,610**
47,5	4	215	364	1	010254750	**294,610**
47,75	4	215	364	1	010254775	**294,610**
48	4	220	369	1	010254800	**294,610**
48,25	4	220	369	1	010254825	**307,306**
48,5	4	220	369	1	010254850	**307,306**
48,75	4	220	369	1	010254875	**307,306**
49	4	220	369	1	010254900	**307,306**
49,25	4	220	369	1	010254925	**314,357**
49,5	4	220	369	1	010254950	**314,357**
49,75	4	220	369	1	010254975	**314,357**
50	4	220	369	1	010255000	**314,357**
50,5	4	225	374	1	010255050	**380,602**
51	5	225	412	1	010255100	**380,602**
52	5	225	412	1	010255200	**407,385**
53	5	225	412	1	010255300	**413,029**
54	5	230	417	1	010255400	**441,220**
55	5	230	417	1	010255500	**449,678**
56	5	230	417	1	010255600	**503,244**
57	5	235	422	1	010255700	**503,244**
58	5	235	422	1	010255800	**510,294**
59	5	235	422	1	010255900	**510,294**
60	5	235	422	1	010256000	**521,569**

Ø	M.K.	l	L	pcs.	cod.	€ cad/each
61	5	240	427	1	010256100	**708,970**
62	5	240	427	1	010256200	**750,989**
63	5	240	427	1	010256300	**750,989**
64	5	245	432	1	010256400	**750,989**
65	5	245	432	1	010256500	**750,989**
66	5	245	432	1	010256600	**945,291**
67	5	245	432	1	010256700	**945,291**
68	5	250	437	1	010256800	**945,291**
69	5	250	437	1	010256900	**945,291**
70	5	250	437	1	010257000	**1.107,933**
71	5	250	437	1	010257100	**1.148,062**
72	5	255	442	1	010257200	**1.194,276**
73	5	255	442	1	010257300	**1.240,490**
74	5	255	442	1	010257400	**1.311,035**
75	5	255	442	1	010257500	**1.335,356**
76	6	260	447	1	010257600	**1.452,104**
77	6	260	514	1	010257700	**1.498,319**
78	6	260	514	1	010257800	**1.545,745**
79	6	260	514	1	010257900	**1.616,291**
80	6	260	514	1	010258000	**1.662,505**
81	6	265	519	1	010258100	**1.756,147**
82	6	265	519	1	010258200	**1.779,253**
83	6	265	519	1	010258300	**1.849,789**
84	6	265	519	1	010258400	**1.849,789**
85	6	265	519	1	010258500	**1.872,893**
86	6	270	524	1	010258600	**1.920,334**
87	6	270	524	1	010258700	**1.943,442**
88	6	270	524	1	010258800	**1.990,868**
89	6	270	524	1	010258900	**2.037,082**
90	6	270	524	1	010259000	**2.037,082**
91	6	275	529	1	010259100	**2.201,270**
92	6	275	529	1	010259200	**2.294,910**
93	6	275	529	1	010259300	**2.318,018**
94	6	275	529	1	010259400	**2.318,018**
95	6	275	529	1	010259500	**2.365,446**
96	6	280	534	1	010259600	**2.432,337**
97	6	280	534	1	010259700	**2.482,204**
98	6	280	534	1	010259800	**2.528,418**
99	6	280	534	1	010259900	**2.713,271**
100	6	280	534	1	0102510000	**4.472,822**


16
14
12
10
8
6
4



UTENSILI CONICI E A GRADINO

CONICAL AND STEP DRILL BITS

UTENSILI CONICI INTEGRALI IN HSS-G CON SCALATURA ELICOIDALE E SPOGLIA MULTIPLA PER FORARE E ALLARGARE LAMIERE E TUBI

Conical drill bits with spiral flute and multiple clearance for metal sheets and tubes

01182 **HSS-G** INTERAMENTE RETTIFICATA

Fully ground

AISI M2
HV:820

Gambo antisdrucciolo
Spoglia multipla

High grip shank
Multiple clearance

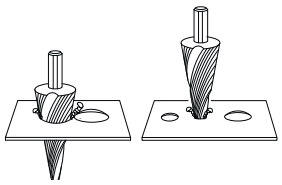




Confezione
Packaging



Gr.	Ø min - max	d mm	l mm	L mm	cod.	€ cad/each
1	3 ÷ 14	6	35	60	0118201	31,186
2	6 ÷ 20	8	45	70	0118202	46,885
3	5 ÷ 31	10	80	105	0118203	100,811





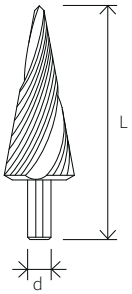
Art. 01182100
€ 182,535

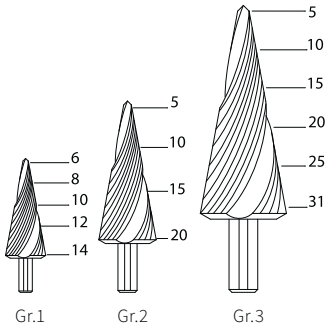
Composizione
Description
Gr.1 3÷14 mm
Gr.2 6÷20 mm
Gr.3 5÷31 mm

R ≤ 800 N/mm²

Applicazioni
Applications

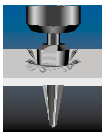
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Plastica *Plastic*
- Emulsione *Lubrificant*





Grande capacità di taglio, grande rendimento grazie alla nuova scanalatura a spirale e alla spoglia multipla. Usare una leggera pressione durante il taglio: l'elicoide è autoalimentante.

Better cutting performances due to the new spiral flute and multiple clearance. Please use a very soft press when drilling: the tool proceeds by itself.



Per forare lamiere in acciaio, tubi, profilati in acciaio e leghe leggere, plexiglass, plastica sino a 5 mm di spessore

For hole-making into metal sheets, pipes, structurals, light alloys sheets, plastics, plexiglass up to 5 mm thickness

FRESA CONICA ALLARGAFORI PER LAMIERE, SPECIALE PER MECCANICI, ELETTRAUTO, CARROZZIERI

Conical drill bits for metal sheets

01176 INTERAMENTE RETTIFICATA

Fully ground



R ≤ 800 N/mm²

HSS

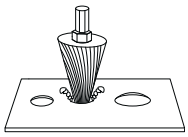
Øxl	d	cod.	€ cad/each
25 x 40	10	0117601	**28,554**
32 x 50	10	0117603	**53,588**
45 x 60	12	0117604	**88,138**

C.V.

Øxl	d	cod.	€ cad/each
25 x 40	10	0117602	**24,121**

Applicazioni
Applications

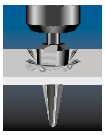
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Plastica *Plastic*
- Emulsione *Lubrificant*



La fresa allargafori va usata con velocità massima di 420 giri/min per allargare fori in lamiere di materiali dolci con spessore inferiore a 0,5 mm.

The conical drill bit shoud work at max 420 rpm to enlarge holes inside mild steel sheet 0,5 mm thick.

Art. 01177 Self
Disponibile su richiesta
On demand



Per forare lamiere in acciaio, tubi, profilati in acciaio e leghe leggere, plexiglass, plastica sino a 5 mm di spessore

For hole-making into metal sheets, pipes, structurals, light alloys sheets, plastics, plexiglass up to 5 mm thickness

UTENSILI CONICI
PER FORARE ED ALLARGARE LAMIERE E TUBI
Conical drill bits for metal sheets and tubes

01206 HSS-G TiAlN

118°

HSS-G+TiAlN
HV 0,05 = 3300

Gambo antisdrucciolo
High grip shank

Uso intensivo
Intensive use

CBN



Confezione
Packaging

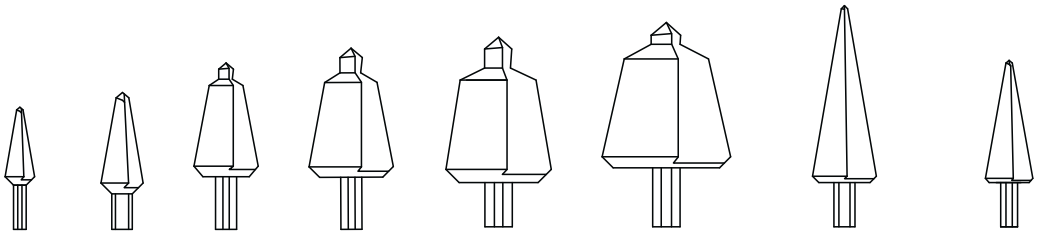


Gr.	Ø min - max	d mm	l mm	L mm	cod.	€ cad/each
1	3 ÷ 14	6	21	58	0120601	37,927
2	6 ÷ 20	8	21	70	0120602	64,445
3	16 ÷ 30,5	10	25	79	0120603	122,261
4	26 ÷ 40	10	25	86	0120604	249,324
5	36 ÷ 50	13	25	90	0120605	352,414
6	40 ÷ 61	13	25	97	0120606	565,784
7	3 ÷ 31	10	21	109	0120607	180,999
8	3 ÷ 22,5	8	21	85	0120608	100,270

R ≤ 1400 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Emulsione *Lubrificant*
- Plastica *Plastic*



Gr.1 Gr.2 Gr.3 Gr.4 Gr.5 Gr.6 Gr.7 Lungo *Long* Gr.8 Antenna

01200 HSS-G TiN

118°

HSS-G+TiN
HV 0,05 = 2300

Gambo antisdrucciolo
High grip shank

Uso intensivo
Intensive use

CBN



Confezione
Packaging



Gr.	Ø min - max	d mm	l mm	L mm	cod.	€ cad/each
1	3 ÷ 14	6	21	58	0120001	32,856
2	6 ÷ 20	8	21	70	0120002	55,810
3	16 ÷ 30,5	10	25	79	0120003	103,055
4	26 ÷ 40	10	25	86	0120004	219,615
5	36 ÷ 50	13	25	90	0120005	315,308
6	40 ÷ 61	13	25	97	0120006	512,839
7	3 ÷ 31	10	21	109	0120007	164,997
8	3 ÷ 22,5	8	21	85	0120008	88,841

R ≤ 1000 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Plastica *Plastic*
- Emulsione *Lubrificant*

UTENSILI CONICI
PER FORARE ED ALLARGARE LAMIERE E TUBI
Conical drill bits for metal sheets and tubes

01180 — HSS-G

118°

AISI M2
HV:820

Gambo antisdrucciolo
High grip shank

CBN



Confezione
Packaging

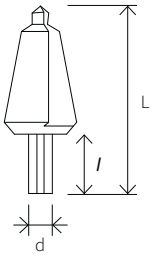


Gr.	Ø min - max	d mm	l mm	L mm	cod.	€ cad/each
1	3 ÷ 14	6	21	58	0118001	22,82
2	6 ÷ 20	8	21	70	0118002	37,81
3	16 ÷ 30,5	10	25	79	0118003	64,93
4	26 ÷ 40	10	25	86	0118004	135,38
5	36 ÷ 50	13	25	90	0118005	208,72
6	40 ÷ 61	13	25	97	0118006	358,20
7	3 ÷ 31	10	21	109	0118007	97,30
8	3 ÷ 22,5	8	21	85	0118008	69,10

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*
Emulsione *Lubrificant*



Art. 01181 Self
Disponibile su richiesta
On demand



Art. 01195101
€ 148,635

Composizione
Description
Gr.1 3÷14 mm
Gr.2 6÷20 mm
Gr.3 16÷30,5 mm

01215 — HSS-G — ATTACCO 1/4" HEX FORM E PER AVVITATORI

AISI M2
HV:820

CBN

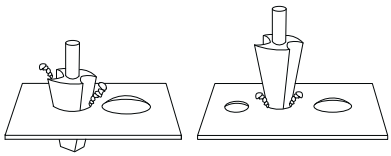
1/4" HEX FORM E

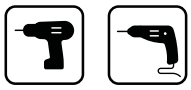


Confezione
Packaging



Gr.	Ø min - max	d ⬡	l mm	L mm	cod.	€ cad/each
2	8 ÷ 20	1/4	20	68	0121502	37,159

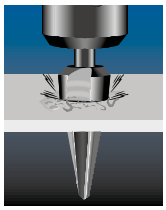




R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*
Emulsione *Lubrificant*



Per forare lamiere in acciaio, tubi, profilati in acciaio e leghe leggere, plexiglass, plastica sino a 5 mm di spessore

For hole-making into metal sheets, pipes, structurals, light alloys sheets, plastics, plexiglass up to 5 mm thickness

Campo di applicazione degli utensili conici rivestiti
Range of application for HSS conical drill-bits

HSS + TiAlN — Esigenze elevate
(alti parametri di taglio, lavorazioni a secco con raffreddamento limitato)
Severe applications
(dry cutting parameter, high cutting parameters)

HSS + TiN — Utilizzo Intensivo (raffreddamento, bassi parametri di taglio)
Intensive applications (low cutting parameters)

HSS — Esigenze Limitate
(basse velocità e avanzamenti, utilizzo non intensivo)
Non intensive applications

UTENSILI CONICI A GRADINO CON TAGLIENTI ELICOIDALI AD ALTO RENDIMENTO
Spiral step drill bits

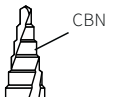
01248 HSS-G TiAlN

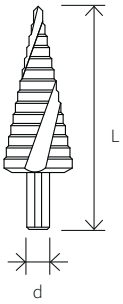


HSS-G+TiAlN
HV 0,05=3300

Gambo antisdrucciolo
High grip shank







R ≤ 1400 N/mm²

Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
2	**4 ÷ 12**	1	9	6	70	0124802	**52,805**
4	**4 ÷ 20**	2	9	10	85	0124804	**86,836**
6	**4 ÷ 30**	2	13	10	100	0124806	**178,362**
9	**6 ÷ 36**	3	10	10	80	0124809	**272,238**
11	**4 ÷ 39**	3	13	10	107	0124811	**310,961**
24	**6 ÷ 38**	-	11	10	96	0124824	**287,493**



Art. 01259109
€ 309,201

Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

Applicazioni
Applications



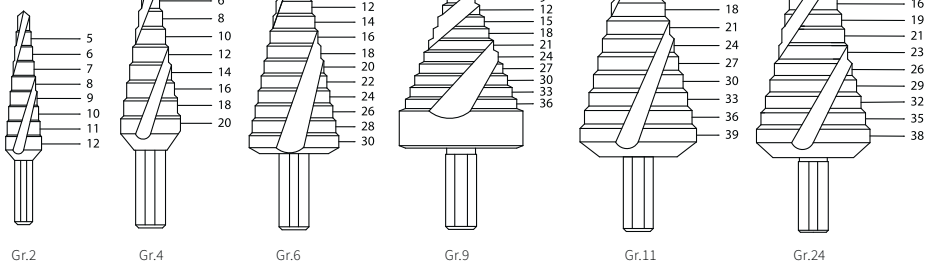
Inox *Stainless*


Acciaio *Steel*


Metalli *Metals*


Emulsione *Lubrificant*





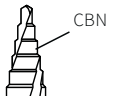
01244 HSS-G TiN



HSS-G+TIN
HV 0,05=2300

Gambo antisdrucciolo
High grip shank





R ≤ 1000 N/mm²

Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
2	**4 ÷ 12**	1	9	6	70	0124402	**48,111**
4	**4 ÷ 20**	2	9	10	85	0124404	**77,447**
6	**4 ÷ 30**	2	13	10	100	0124406	**163,109**
9	**6 ÷ 36**	3	10	10	80	0124409	**246,422**
11	**4 ÷ 39**	3	13	10	107	0124411	**264,024**
24	**6 ÷ 38**	-	11	10	96	0124424	**272,238**



Art. 01259108
€ 291,013

Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

Applicazioni
Applications



Inox *Stainless*


Acciaio *Steel*


Metalli *Metals*


Emulsione *Lubrificant*



UTENSILI CONICI A GRADINO CON TAGLIENTI ELICOIDALI AD ALTO RENDIMENTO
Spiral step drill bits

01240 HSS-G

118°

HSS-G
HV 820

Gambo antisdrucciolo
High grip shank

CBN

R ≤ 800 N/mm²



Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
2	**4 ÷ 12**	1	9	6	70	0124002	**43,652**
4	**4 ÷ 20**	2	9	10	85	0124004	**54,565**
6	**4 ÷ 30**	2	13	10	100	0124006	**145,507**
9	**6 ÷ 36**	3	10	10	80	0124009	**177,033**
11	**4 ÷ 39**	3	13	10	107	0124011	**194,010**
24	**6 ÷ 38**	-	11	10	96	0124024	**196,433**



Art. 01259107
€ 194,791

Composizione
Description
Gr.2 4÷12 mm
Gr.3 4÷20 mm
Gr.4 4÷30 mm

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*
Emulsione *Lubrificant*



01241 HSS-G ATTACCO 1/4" HEX FORM E PER AVVITATORI

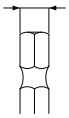
118°

HSS-G
HV 820

Gambo antisdrucciolo
High grip shank

CBN

1/4" HEX FORM E



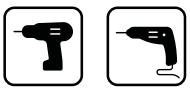
R ≤ 800 N/mm²

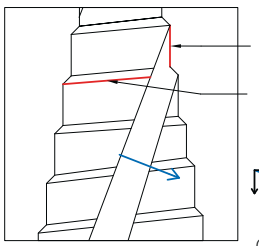


Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d ⬡	l mm	L mm	cod.	€ cad/each
4	**4 ÷ 20**	2	9	1/4	25	76	0124104	**46,938**
6	**4 ÷ 30**	2	13	1/4	25	100	0124106	**126,731**

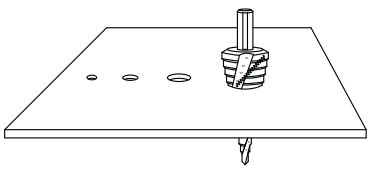




Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*
Emulsione *Lubrificant*





Esercitare solo una lieve pressione durante il taglio. L'elicoide è autoalimentante grazie alla componente assiale della forza di taglio.

Please use a very soft press while drilling.
The tool proceeds by itself, due to the axial cutting strenght.

UTENSILI CONICI INTEGRALI A GRADINO
PER LA FORATURA ED ALLARGATURA DELLA LAMIERA
HSS step drill bits

01236 | **HSS-G** | **TiAlN**

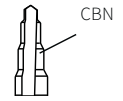
M

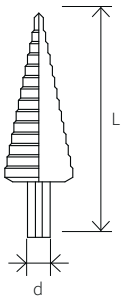
118°

HSS-G + TiAlN
HV 0,05 = 3300

Gambo antisdrucciolo
High grip shank

Uso intensivo
Intensive use





R ≤ 1200 N/mm²



Confezione
Packaging



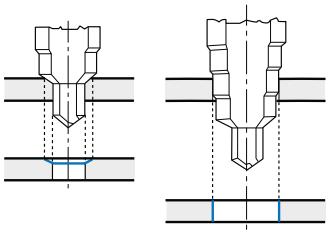
Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
1	4 ÷ 12	2	5	6	56	0123601	**52,232**
2	4 ÷ 12	1	9	6	70	0123602	**53,583**
3	12 ÷ 20	1	9	10	85	0123603	**134,253**
4	4 ÷ 20	2	9	10	85	0123604	**88,704**
5	20 ÷ 30	1	11	10	97	0123605	**231,346**
6	4 ÷ 30	2	13	10	97	0123606	**177,408**
7	30 ÷ 40	1	11	13	97	0123607	**332,031**
8	40 ÷ 50	1	11	13	100	0123608	**453,108**
9	6 ÷ 36	3	10	10	80	0123609	**278,094**
***10**	25 ÷ 58	3	12	13	90	0123610	**619,722**
11	4 ÷ 39	3	13	10	107	0123611	**290,082**
24	6 ÷ 38	-	11	10	96	0123624	**281,695**



Per tubi di conduzione elettrica
For electrical conduction tubes

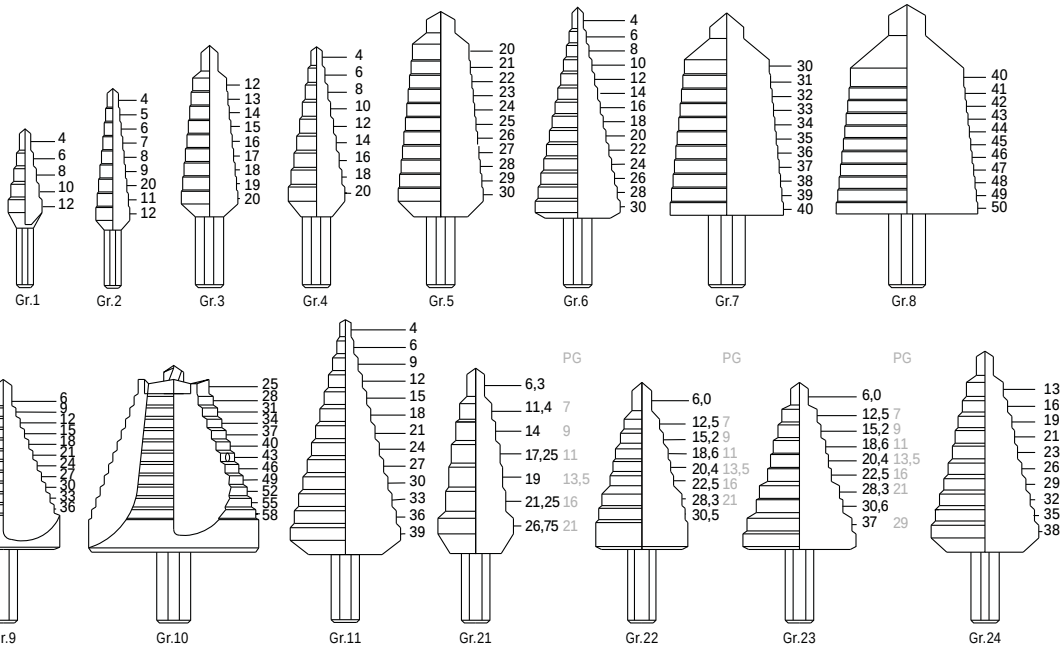
PG

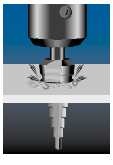
21	6,3 ÷ 26,75	-	7	10	91	0123621	**214,567**
22	6 ÷ 30,5	-	7	10	80	0123622	**153,438**
23	6 ÷ 37	-	7	10	85	0123623	**294,871**



Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Emulsione *Lubrificant*





Per fori cilindrici e precisi in lamiere di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.

For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.

* Punta a centrare per utensile conico Gr. 10
Pilot drill for Gr.10 step drill bit



Ø x L	cod.	€ cad/each
Ø 8x48	0118300	**33,553**

UTENSILI CONICI INTEGRALI A GRADINO
PER LA FORATURA ED ALLARGATURA DELLA LAMIERA
HSS step drill bits

01230 HSS-G TiN

M

HSS-G+TiN
HV 0,05=2300

Gambo antisdrucciolo
High grip shank

CBN



Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
1	4 ÷ 12	2	5	6	56	0123001	**47,457**
2	4 ÷ 12	1	9	6	70	0123002	**48,929**
3	12 ÷ 20	1	9	10	85	0123003	**123,470**
4	4 ÷ 20	2	9	10	85	0123004	**79,119**
5	20 ÷ 30	1	11	10	97	0123005	**212,164**
6	4 ÷ 30	2	13	10	97	0123006	**158,225**
7	30 ÷ 40	1	11	13	97	0123007	**302,065**
8	40 ÷ 50	1	11	13	100	0123008	**417,145**
9	6 ÷ 36	3	10	10	80	0123009	**252,925**
***10**	25 ÷ 58	3	12	13	90	0123010	**564,575**
11	4 ÷ 39	3	13	10	107	0123011	**254,122**
24	6 ÷ 38	-	11	10	96	0123024	**252,925**

Per tubi di conduzione elettrica
For electrical conduction tubes

PG

21	6,3 ÷ 26,75	-	7	10	91	0123021	**190,586**
22	6 ÷ 30,5	-	7	10	80	0123022	**147,441**
23	6 ÷ 37	-	7	10	85	0123023	**264,905**

R ≤ 1000 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Emulsione *Lubrificant*



Per fori cilindrici e precisi in lamiere di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.

For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.

01183 HSS-G

M

AISI M2
HV:820

Gambo antisdrucciolo
High grip shank

CBN



Confezione
Packaging



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
1	4 ÷ 12	2	5	6	56	0118301	**30,472**
2	4 ÷ 12	1	9	6	70	0118302	**33,143**
3	12 ÷ 20	1	9	10	85	0118303	**85,518**
4	4 ÷ 20	2	9	10	85	0118304	**44,617**
5	20 ÷ 30	1	11	10	97	0118305	**135,309**
6	4 ÷ 30	2	13	10	97	0118306	**99,090**
7	30 ÷ 40	1	11	13	97	0118307	**196,942**
8	40 ÷ 50	1	11	13	100	0118308	**285,354**
9	6 ÷ 36	3	10	10	80	0118309	**180,867**
***10**	25 ÷ 58	3	12	12	90	0118310	**458,175**
11	4 ÷ 39	3	13	10	107	0118311	**170,136**
24	6 ÷ 38	-	11	10	96	0118324	**156,745**

Per tubi di conduzione elettrica
For electrical conduction tubes

PG

21	6,3 ÷ 26,75	-	7	10	91	0118321	**125,936**
22	6 ÷ 30,5	-	7	10	80	0118322	**112,533**
23	6 ÷ 37	-	7	10	85	0118323	**170,136**

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Emulsione *Lubrificant*

Art. 01184 Self
Disponibile su richiesta
On demand

UTENSILI CONICI INTEGRALI A GRADINO
PER LA FORATURA ED ALLARGATURA DELLA LAMIERA
HSS step drill bits

SET — HSS-G



Art. 01259102
Abs
€ 168,799

Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm



Art. 01259105
€ 183,056

Composizione
Description
Gr.2 4÷12 mm
Gr.3 12÷20 mm
Gr.5 20÷30 mm

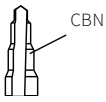


Art. 01259103
€ 279,220
TiN

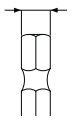
Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

01239 — HSS-G — ATTACCO 1/4" HEX FORM E PER AVVITATORI

AISI M2
HV:820



1/4" HEX FORM E







Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step mm	d mm	L mm	cod.	€ cad/each
2	4 ÷ 12	1	9	1/4	68	0123902	**29,813**
4	4 ÷ 20	2	9	1/4	78	0123904	**40,452**
6	4 ÷ 30	2	13	1/4	101	0123906	**89,768**

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Plastica *Plastic*
Emulsione *Lubricant*



Per fori cilindrici e precisi in lamiere di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.

For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.

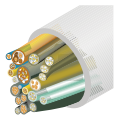


Art. 01259118
Abs
€ 164,896

Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

UTENSILI CONICI UNIVERSALI PER PREFORI DI FILETTATURA DI TUBI PER CAVI DI CONDUZIONE ELETTRICA

Universal step drill bits for cables connections



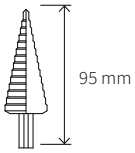
0125405 HSS-G

0125406 HSS-G TiN

METRICA
DIN-EN 60423

Metrica Universale
Art. 0125405
€ 188,272

Composizione
Description
Ø 7 ÷ 40,5 mm
M 12 x 1,5 ÷ 40 x 1,5





Metrica Universale
Art. 0125406
€ 291,079

Composizione
Description
Ø 7 ÷ 40,5 mm
M 12 x 1,5 ÷ 40 x 1,5

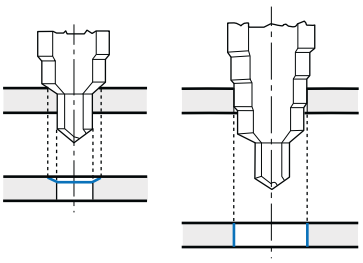


Confezione
Packaging

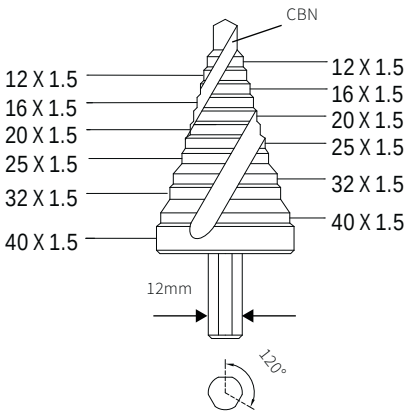


Combinato UNIVERSALE: per fori nocciolo e fori passanti DIN EN 60423

Combined UNIVERSAL: for core holes and through holes DIN EN 60423



M DIN-EN 60423



COMBINATO UNIVERSALE:
per fori nocciolo (quando è prevista la successiva filettatura) e fori passanti (quando si inserisce un raccordo filettato serrato con un relativo dado).

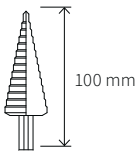
UNIVERSAL COMBINED:
for core holes (when the thread is needed) and through holes (when inserting a threaded connection with a relative nut).

0125403 HSS-G

PG
DIN-EN 40430

PG Drill Universal
Art. 0125403
€ 174,843

Composizione
Description
Ø 8 ÷ 37 mm
Pg 7 ÷ 29



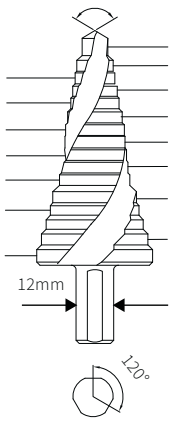


Confezione
Packaging



PG DIN-EN 40430

Foro passante *Through holes*		Preforo maschiatura *Core holes*
	Ø 8	
12,5 ± 0,05	PG 7	11,4 ± 0,05
15,2 ± 0,05	PG 9	14 ± 0,05
18,6 ± 0,05	PG 11	17,25 ± 0,05
20,4 ± 0,05	PG 13,5	19 ± 0,05
22,5 ± 0,05	PG 16	21,25 ± 0,05
28,3 ± 0,05	PG 21	26,75 ± 0,05 (31 ± 0,05)
37 ± 0,05	PG 29	34 ± 0,05



Combinato UNIVERSALE: per fori nocciolo e fori passanti DIN EN 40430

Combined UNIVERSAL: for core holes and through holes DIN EN 40430



TRAPANI
A BASE MAGNETICA
MAGNETIC DRILLS

TRAPANO CON BASE MAGNETICA PER FRESE A CAROTARE FINO A Ø 32 mm, VELOCITÀ VARIABILE ED INVERSIONE DI ROTAZIONE

Magnetic drill for max Ø 32 mm annular cutters, adjustable speed and R/L rotation

28011202

FULL 32t



32 mm | 13 mm | 40 mm | M12

11 Kg | 1000 W | 1500Kg | 150 mm | Velocità variabile | Inversione di rotazione

Capacità di foratura
Drilling capacity

Frese a carotare (Ø max) *Annular cutters (Ø max)*	**12 – 32 mm**
Punte elicoidali (Ø max) *Twist drills (Ø max)*	**1 – 13 mm**
Svasatori (Ø max) *Countersinks (Ø max)*	**10 – 40 mm**
Maschi (Ø) *Machine taps (Ø)*	**M3 - M12**

Dimensioni trapano
Drilling machine dimensions

Altezza *Height*	**370 - 512 mm**
Lunghezza *Lenght*	**320 mm**
Larghezza *Width*	**210 mm**
Corsa *Stroke*	**150 mm**
Peso *Weight*	**11 Kg**

Magnete (L x W x H) *Magnet (L x W x H)*	**160x80x42 mm**
Forza del magnete *Magnetic force*	**1500 Kg**
Potenza del motore *Motor power*	**1000 W**
Tensione *Voltage*	**220-240 AC / 50-60 Hz**
Velocità (a vuoto) *Speed (no load)*	**100 - 600 rpm**
Velocità (sotto carico 1000W, 9,1A) *Speed (loaded 1000W, 9,1A)*	**225 rpm**
Attacco *Spindle*	**Weldon 19,05 mm**

Art. 28011202
€ 2.300,000

CONTENUTO DELLA CONFEZIONE:
1 x trapano a base magnetica
1 x protezione di sicurezza
3 x maniglie
3 x adattatori Weldon per maschi con gambo Ø 7,8,9
1 chiave esagonale da 2,5 mm
1 chiave esagonale da 3 mm
1 chiave esagonale da 4 mm
1 chiave esagonale da 5 mm
1 x sistema di lubrificazione
1 x catena di sicurezza
1 x manuale d'uso (I-E)
1 x espulsore

CASE CONTENT:
1 x magnetic drilling machine
1 x safety guard
3 x handles
3 x tap holder (Weldon) for taps with shank Ø 7,8,9
1 x hex key 2.5 mm
1 x hex key 3 mm
1 x hex key 4 mm
1 x hex key 5 mm
1 x lubrication system
1 x safety chain
1 x user manual
1 x ejector

FULL32T: SCHEMA D'UTILIZZO DEGLI ACCESSORI
FULL32T: accessories usage diagram





Art. 28015010
(incluso / *included*)
Adattatore per maschi con gambo Ø 7 mm
Adaptor for taps with Ø 7 mm shank

Art. 28015011
(incluso / *included*)
Adattatore per maschi con gambo Ø 8 mm
Adaptor for taps with Ø 8 mm shank

Art. 28015012
(incluso / *included*)
Adattatore per maschi con gambo Ø 9 mm
Adaptor for taps with Ø 9 mm shank





WELDON



Art. 28015001
Adattatore
Weldon 19.05 Quick-in
Adaptor
Weldon 19.05 Quick-in



Quick-IN



Art. 28015004
Adattatore
Weldon 19.05 - 1/2 UNF
Adaptor
Weldon 19.05 - 1/2 UNF



Mandrino attacco 1/2 x 20 UNF
Chuck attachment 1/2 x 20 UNF



TRAPANO CON BASE MAGNETICA
PER FRESE A CAROTARE FINO A Ø 50 mm, DUE VELOCITÀ
Magnetic drill for max Ø 50 mm annular cutters, 2 gears

28011201 PURE-50

50 mm | 20 mm | 50 mm | 2 velocità

13,5 Kg | 1200 W | 1600 Kg | 170 mm



Art. 28011201
€ 1.500,000

Capacità di foratura
Drilling capacity

Frese a carotare (Ø max) *Annular cutters (Ø max)*	**12 – 50 mm**
Punte elicoidali (Ø max) *Twist drills (Ø max)*	**1 – 20 mm**
Svasatori (Ø max) *Countersinks (Ø max)*	**10 – 50 mm**

Dimensioni trapano
Drilling machine dimensions

Altezza *Height*	**385 - 550 mm**
Lunghezza *Lenght*	**320 mm**
Larghezza *Width*	**210 mm**
Corsa *Stroke*	**170 mm**
Peso *Weight*	**13,5 Kg**

Magnete (L x W x H) *Magnet (L x W x H)*	**168x84x49 mm**
Forza del magnete *Magnetic force*	**1600 Kg**
Potenza del motore *Motor power*	**1200 W**
Tensione *Voltage*	**220-240 AC / 50-60 Hz**
Velocità (a vuoto) *Speed (no load)*	**380 rpm / 690 rpm**
Velocità (sotto carico) *Speed (loaded)*	**235 rpm /425 rpm**
Attacco *Spindle*	**Weldon 19,05 mm**

PURE.50: SCHEMA D'UTILIZZO DEGLI ACCESSORI
PURE.50: accessories usage diagram





Art. 28015001
Adattatore
Weldon 19.05 - Quick-in
Adaptor
Weldon 19.05 - Quick-in



Art. 28015004
Adattatore
Weldon 19.05 - 1/2 UNF
Adaptor
Weldon 19.05 - 1/2 UNF



Mandrino attacco
1/2 x 20 UNF
Mandrino attacco
1/2 x 20 UNF



WELDON



Quick-IN



CONTENUTO DELLA CONFEZIONE:
1 x trapano magnetico
1 x protezione di sicurezza
3 x maniglie
1 chiave esagonale da 2,5 mm
1 chiave esagonale da 3 mm
1 chiave esagonale da 4 mm
1 chiave esagonale da 5 mm
1 x sistema di lubrificazione
1 x catena di sicurezza
1 x manuale d'uso
1 x espulsore

CASE CONTENT:
1 x magnetic drilling machine
1 x safety guard
3 x handles
1 x hex key 2.5 mm
1 x hex key 3 mm
1 x hex key 4 mm
1 x hex key 5 mm
1 x lubrication system
1 x safety chain
1 x user manual
1 x ejector

TRAPANO CON BASE MAGNETICA
PER FRESE A CAROTARE FINO A Ø 35 mm
Magnetic drill for max Ø 35 mm annular cutters

28011200 PURE-35



35 mm | 13 mm | 35 mm

8,5 Kg | 850 W | 1000 Kg | 90 mm

Capacità di foratura
Drilling capacity

Frese a carotare (Ø max) *Annular cutters (Ø max)*	**12 – 35 mm**
Punte elicoidali (Ø max) *Twist drills (Ø max)*	**1 – 13 mm**
Svasatori (Ø max) *Countersinks (Ø max)*	**10 – 35 mm**

Dimensioni trapano
Drilling machine dimensions

Altezza *Height*	**293 - 383 mm**
Lunghezza *Lenght*	**265 mm**
Larghezza *Width*	**175 mm**
Corsa *Stroke*	**90 mm**
Peso *Weight*	**8,5 Kg**

Magnete (L x W x H) *Magnet (L x W x H)*	**160x81x36 mm**
Forza del magnete *Magnetic force*	**1000 Kg**
Potenza del motore *Motor power*	**850 W**
Tensione *Voltage*	**220-240 AC / 50-60 Hz**
Velocità (a vuoto) *Speed (no load)*	**750 rpm**
Velocità (sotto carico) *Speed (loaded)*	**400 rpm**
Attacco *Spindle*	**Weldon 19,05 mm**

Art. 28011200
€ 1.000,000

PURE.35: SCHEMA D'UTILIZZO DEGLI ACCESSORI
PURE.35: accessories usage diagram





Art. 28015001
Adattatore
Weldon 19.05 - Quick-in
Adaptor
Weldon 19.05 - Quick-in



WELDON



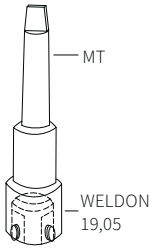
Quick-IN

CONTENUTO DELLA CONFEZIONE:
1 x trapano magnetico
1 x protezione di sicurezza
3 x maniglie
1 chiave esagonale da 2,5 mm
1 chiave esagonale da 3 mm
1 chiave esagonale da 4 mm
1 chiave esagonale da 5 mm
1 x sistema di lubrificazione
1 x catena di sicurezza
1 x manuale d'uso
1 x espulsore

CASE CONTENT:
1 x magnetic drilling machine
1 x safety guard
3 x handles
1 x hex key 2.5 mm
1 x hex key 3 mm
1 x hex key 4 mm
1 x hex key 5 mm
1 x lubrication system
1 x safety chain
1 x user manual
1 x ejector

28012

MANDRINO SENZA LUBRIFICAZIONE INTERNA
Holder without lubrication





MT	L	Weldon	pcs.	cod.	€ cad/each
2	160	12÷60	1	28012001	**199,015**
3	175	12÷60	1	28012002	**199,015**

28013

MANDRINO CON LUBRIFICAZIONE INTERNA
Holder with lubrication





MT	L	Weldon	pcs.	cod.	€ cad/each
2	160	12÷60	1	28013001	**284,299**
3	160	12÷60	1	28013002	**284,299**
2	160	12÷60	1	28013003	**312,501**
3	160	12÷60	1	28013004	**312,501**

28015 ADATTATORI
Adaptors



001



002



004

	pcs.	cod.	€ cad/each
WELDON - 18 Quick IN	1	28015001	**65,439**
18 Quick IN - WELDON	1	28015002	**64,422**
WELDON - 1/2 UNF	1	28015004	**23,093**

ESPULSORI
Ejector

Non adatti all'uso con adattatori art. 28015
They cannot be used with adaptors item n. 28015



Ø	L	pcs.	cod.	€ cad/each
6,35 x 77	63 mm	1	28016001	**12,686**
6,35 x 102	83 mm	1	28016002	**14,720**
6,35 x 123	83 mm	1	28016003	**16,859**
6,35 x 112	93 mm	1	21216000	**25,816**
7,1 x 112	93 mm	1	21216001	**25,816**
8,0 x 112	93 mm	1	21216002	**25,816**
8,0 x 90	60 mm	1	21218000	**7,139**



FRESE E SEGHE A TAZZA

HOLE SAWS FOR METAL CUTTING

VISIONE D'INSIEME: FRESE E SEGHE A TAZZA
Overview: Hole saws

FRESE A CAROTARE / *ANNULAR CUTTERS*

MATERIALE *MATERIAL*	SPESSORE LAVORABILE *MATERIAL THICKNESS*	ATTACCO / SERIE *SHANK / SERIES*	GAMMA DISPONIBILE (Ø MIN÷ MAX mm) *RANGE*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	HARDOX, WELDOX 400 *HARDOX, WELDOX 400*	ACCIAIO <1200 N/mm *STEEL <1200 N/mm*	ACCIAIO <800 N/mm *STEEL <800 N/mm*	LAMIERE *IRON*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM*	LEGNO DURO *HARD WOOD*	LEGNO DOLCE *SOFT WOOD*	PLASTICA, LAMINATI, CARTONGESSO *PLASTER BOARD*	MARMO E GRANITO *MARBLE AND GRANIT*	PIASTRELLE *TILES*	MATTONI *MASONRY*	R≤N/mm²	COD.	
TCT	50 mm	WELDON SERIE LUNGA *WELDON LONG SERIES*	12÷80		●	●	●	●	●	●	●								1200	21216	170
	50 mm	QUICK-IN *QUICK-IN*	12÷60		●	●	●	●	●	●	●								1200	21212	171
	25 mm	WELDON *WELDON*	19÷36		●	●	●	●	●	●	●								1200	21218	172
HSS-Co AISI M35	50 mm	QUICK-IN *QUICK-IN*	12÷50		●		●	●	●	●	●								1200	21211	173
	30 mm	WELDON *WELDON*	12÷60		●		●	●	●	●	●								1200	21206	174
	50 mm	WELDON *WELDON*	12÷60		●		●	●	●	●	●								1200	21207	175
HSS-G	30 mm	WELDON *WELDON*	12÷60					●	●	●	●								850	21200	176
	50 mm	WELDON *WELDON*	12÷60					●	●	●	●								850	21202	177

FRESE PERFORATRICI / *HOLE SAWS*

TCT	5 mm	SERIE LUNGA *LONG SERIE*	20÷100		●		●	●	●	●	●			◐					1300	21042	178
	5 mm	-	15÷150		●		●	●	●	●	●			◐					1300	21040	179
	5 mm	-	15÷130		●		◐	●	●	●	●			◐					1100	21043	180
HSS-Co AISI M35	5 mm	-	12÷80		●			●	●	●	●			◐					1000	21011	181
HSS-G	TiAlN 5 mm	-	12÷100		●		●	●	●	●	●			◐					1300	21325	182
	TiN 5 mm	-	12÷100		●			●	●	●	●			◐					1000	21300	183
	5 mm	-	10÷120					◐	●	●	●			◐					800	21001	184

SEGHE A TAZZA / *BIMETAL HOLE SAWS*

MATERIALE *MATERIAL*	SPESSORE LAVORABILE *MATERIAL THICKNESS*	SPECIALITÀ *FEATURES*	GAMMA DISPONIBILE (Ø MIN÷ MAX mm) *RANGE*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	HARDOX, WELDOX 400 *HARDOX, WELDOX 400*	ACCIAIO <1200 N/mm *STEEL <1200 N/mm*	ACCIAIO <800 N/mm *STEEL <800 N/mm*	LAMIERE *IRON*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM*	LEGNO DURO *HARD WOOD*	LEGNO DOLCE *SOFT WOOD*	PLASTICA, LAMINATI, CARTONGESSO *PLASTER BOARD*	MARMO E GRANITO *MARBLE AND GRANIT*	PIASTRELLE *TILES*	MATTONI *MASONRY*	R≤N/mm²	COD.	
TCT	50 mm	PER LEGNO *FOR WOOD*	19÷152						●			●	●	●				●	1200	**05078**	187
	4 mm *acciaio steel* 20 mm *legno wood*	UNIVERSALE *UNIVERSAL*	19÷108		●		●	●	●	●	●	●	●	●			●	●	1200	**21100**	186
MD	5 mm	PER MATERIALI EDILI *PER MATERIALI EDILI*	16÷114						●					●	●	●	●	●	1200	**21105**	188
HSS-Co 8% M42	3 mm *acciaio steel* 20 mm *legno wood*	-	14÷305		●		●	●	●	●	●	●	●	●					1000	**21090**	190
HSS M3	4 mm *acciaio steel* 30 mm *legno wood*	DENTE RINFORZATO ALTE PRESTAZIONI SISTEMA K-LOCK *REINFORCED TOOTH HIGH PERFORMANCE K-LOCK SYSTEM*	16÷133					●	●	●	●	●	●	●					850	**21058**	195
	3 mm *acciaio steel* 20 mm *legno wood*	-	14÷305					●	●	●	●	●	●	●					800	**21060**	196
	3 mm *acciaio steel* 20 mm *legno wood*	ALBERO FISSO *ALBERO FISSO*	16÷102					●	●	●	●	●	●	●					800	**21061**	200
	3 mm *acciaio steel* 20 mm *legno wood*	-	14÷210	*lite*				●	●	●	●	●	●	●					750	**21067**	201

BLU-MOL®

SEGHE A TAZZA / *BIMETAL HOLE SAWS*

HSS-Co 8% M42	4 mm *acciaio steel* 30 mm *legno wood*	ALTE PRESTAZIONI *ALTE PRESTAZIONI*	14÷152		●		●	●	●	●	●	●	●	●					1000	**21073**	204
	3 mm *acciaio steel* 20 mm *legno wood*	-	14÷152		●		●	●	●	●	●	●	●	●					1000	**21065**	205
	2 mm	SPECIALE LAMIERE SOTTILI ATTACCO 1/4" HEX. *SPECIALE LAMIERE SOTTILI ATTACCO 1/4" HEX.*	16÷38		●		●	●	●	●	●			●					1000	**21069**	208

FRESE A CAROTARE CON TAGLIENTI IN METALLO DURO, ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank carbide tip core drill for magnetic drilling machines

21216 TCT

Attacco Weldon - Serie lunga

Weldon shank - Long serie

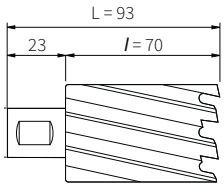


Confezione
Packaging



Inserti in metallo duro
Carbide tips

WELDON 19.05



R ≤ 1200 N/mm²

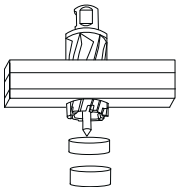
Ø	l	L	cod.	€ cad/each	Ø	l	L	cod.	€ cad/each
12	70	93	212161200	**106,913**	**39**	70	93	212163900	**149,685**
14	70	93	212161400	**106,913**	**40**	70	93	212164000	**149,685**
15	70	93	212161500	**106,913**	**41**	70	93	212164100	**171,064**
16	70	93	212161600	**106,913**	**42**	70	93	212164200	**171,064**
17	70	93	212161700	**106,913**	**43**	70	93	212164300	**171,064**
18	70	93	212161800	**106,913**	**44**	70	93	212164400	**171,064**
19	70	93	212161900	**106,913**	**45**	70	93	212164500	**171,064**
20	70	93	212162000	**109,295**	**46**	70	93	212164600	**192,444**
21	70	93	212162100	**109,295**	**47**	70	93	212164700	**192,444**
22	70	93	212162200	**109,295**	**48**	70	93	212164800	**192,444**
23	70	93	212162300	**109,295**	**49**	70	93	212164900	**192,444**
24	70	93	212162400	**109,295**	**50**	70	93	212165000	**192,444**
25	70	93	212162500	**109,295**	**51**	70	93	212165100	**236,401**
26	70	93	212162600	**119,984**	**52**	70	93	212165200	**236,401**
27	70	93	212162700	**119,984**	**53**	70	93	212165300	**236,401**
28	70	93	212162800	**119,984**	**54**	70	93	212165400	**236,401**
29	70	93	212162900	**128,305**	**55**	70	93	212165500	**236,401**
30	70	93	212163000	**128,305**	**56**	70	93	212165600	**261,349**
31	70	93	212163100	**133,057**	**57**	70	93	212165700	**261,349**
32	70	93	212163200	**133,057**	**58**	70	93	212165800	**261,349**
33	70	93	212163300	**149,685**	**59**	70	93	212165900	**261,349**
34	70	93	212163400	**149,685**	**60**	70	93	212166000	**261,349**
35	70	93	212163500	**149,685**	**65**	70	93	212166500	**285,111**
36	70	93	212163600	**149,685**	**70**	70	93	212167000	**355,201**
37	70	93	212163700	**149,685**	**75**	70	93	212167500	**380,148**
38	70	93	212163800	**149,685**	**80**	70	93	212168000	**402,725**

	Ø	Ø per frese *Ø lorem ipsum*	cod.	€ cad/each
	**Ø 6,35 x 112 mm**	Ø 12mm	21216000	**25,816**
	Ø 7,1 x 112 mm	Ø 14÷16 mm	21216001	**25,816**
	Ø 8,0 x 112 mm	Ø 17÷80 mm	21216002	**25,816**

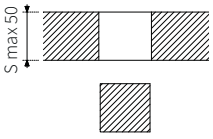
Applicazioni
Applications

- Hardox Weldox 400
- Inox *Stainless*
- Acciaio *Steel*
- Leghe leggere *Light alloys*
- Alluminio *Aluminum*
- Emulsione *Lubricant*

Acciaio accoppiato
Stacked steel



Spessore lavorabile
Material tickness workable





Art. 21210308
€ 1.828,278

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35







Consigliate per il taglio molto veloce, economico e con grande rendimento in acciaio inox, acciai refrattari, acciai resistenti agli acidi, HARDOX®, WELDOX®400, tutti gli acciai in genere, ghisa... Particolarmente adatto al taglio delle putrelle e delle rotaie.

The core drills allow a very fast and economical cut in stainless steel, acid resistant steel, HARDOX®, WELDOX®400, steel and cast iron... Suitable for cut iron beam and rails. WELDOX® is a structural-high strength steel; it's defined by a number which gives its yield strength (MPa).

FRESE A CAROTARE CON TAGLIENTI IN METALLO DURO, ATTACCO QUICK-IN 18 MM PER TRAPANI A BASE MAGNETICA

Quick-IN 18 mm shank carbide tip core drill for magnetic drilling machines

21212 | TCT

Attacco Quick-in - Serie lunga

Quick-IN shank - Long serie



Confezione
Packaging

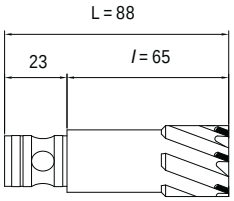


Ø	l	L	cod.	€ cad/each
12	65	88	212121200	**75,935**
13	65	88	212121300	**75,935**
14	65	88	212121400	**75,935**
15	65	88	212121500	**75,935**
16	65	88	212121600	**75,935**
17	65	88	212121700	**75,935**
18	65	88	212121800	**75,935**
19	65	88	212121900	**75,935**
20	65	88	212122000	**75,935**
21	65	88	212122100	**75,935**
22	65	88	212122200	**75,935**
23	65	88	212122300	**75,935**
24	65	88	212122400	**75,935**
25	65	88	212122500	**75,935**
26	65	88	212122600	**82,771**
27	65	88	212122700	**82,771**
28	65	88	212122800	**82,771**
29	65	88	212122900	**82,771**
30	65	88	212123000	**82,771**
31	65	88	212123100	**99,473**
32	65	88	212123200	**99,473**

Ø	l	L	cod.	€ cad/each
33	65	88	212123300	**99,473**
34	65	88	212123400	**99,473**
35	65	88	212123500	**99,473**
36	65	88	212123600	**113,903**
37	65	88	212123700	**113,903**
38	65	88	212123800	**113,903**
39	65	88	212123900	**113,903**
40	65	88	212124000	**113,903**
41	65	88	212124100	**135,925**
42	65	88	212124200	**135,925**
43	65	88	212124300	**135,925**
44	65	88	212124400	**135,925**
45	65	88	212124500	**135,925**
46	65	88	212124600	**156,425**
47	65	88	212124700	**156,425**
48	65	88	212124800	**156,425**
49	65	88	212124900	**156,425**
50	65	88	212125000	**156,425**
55	65	88	212125500	**176,932**
60	65	88	212126000	**194,392**

Inserti in metallo duro
Carbide tips

QUICK-IN



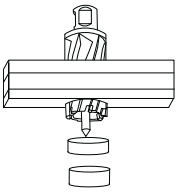
Ø	cod.	€ cad/each
Ø 6,35 x 102	28016002	**14,720**

R ≤ 1200 N/mm²

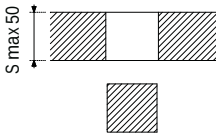
Applicazioni
Applications

- Hardox Weldox 400
- Acciaio *Steel*
- Alluminio *Aluminum*
- Inox *Stainless*
- Leghe leggere *Light alloys*
- Emulsione *Lubrificant*

Acciaio accoppiato
Stacked steel



Spessore lavorabile
Material tickness workable





Art. 21210310
€ 1.275,701

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35







Consigliate per il taglio molto veloce, economico e con grande rendimento in acciaio inox, acciai refrattari, acciai resistenti agli acidi, HARDOX®, WELDOX®400, tutti gli acciai in genere, ghisa... Particolarmente adatto al taglio delle putrelle e delle rotaie.

The core drills allow a very fast and economical cut in stainless steel, acid resistant steel, HARDOX®, WELDOX®400, steel and cast iron Suitable for cut iron beam and rails.

Nota: HARDOX® è un acciaio resistente all'abrasione; è identificato solitamente da un numero che ne indica la durezza (HBW). WELDOX® è un acciaio ad alta resistenza, identificato da un numero che ne fornisce la resistenza a snervamento (MPa).

Note: HARDOX® is an abrasion resistant steel; it's defined by a number which gives its hardness (HBW). WELDOX® is a structural-high strength steel; it's defined by a number which gives its yield strength (MPa).

FRESE A CAROTARE CON DENTI IN METALLO DURO, ATTACCO WELDON PER TRAPANI CON BASE MAGNETICA - SPECIALI PER ROTAIE

Weldon shank carbide tip core drill for magnetic drilling machines

21218 | TCT

Attacco Weldon - Speciale rotaie

Weldon shank - Special for rails



Confezione
Packaging

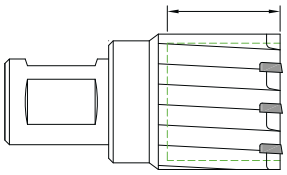




WELDON 19.05

Ø	l	L	cod.	€ cad/each
19	37	60	212181900	**96,800**
20	37	60	212182000	**96,800**
21	37	60	212182100	**97,637**
22	37	60	212182200	**97,637**
23	37	60	212182300	**98,949**
24	37	60	212182400	**98,949**
25	37	60	212182500	**100,383**
26	37	60	212182600	**101,112**
26,5	37	60	212182650	**101,112**
27	37	60	212182700	**101,396**
27,5	37	60	212182750	**101,396**
28	37	60	212182800	**102,332**
29	37	60	212182900	**102,332**
30	37	60	212183000	**103,881**
31	37	60	212183100	**106,381**
32	37	60	212183200	**107,657**
33	37	60	212183300	**110,415**
34	37	60	212183400	**111,434**
35	37	60	212183500	**113,439**
36	37	60	212183600	**119,787**

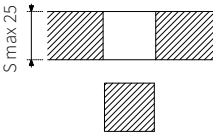
S max 25



	Ø	cod.	€ cad/each
	Ø 8 x 90	21218000	**7,139**

R ≤ 1200 N/mm²

Spessore lavorabile
Material tickness workable



Applicazioni
Applications



Hardox
Weldox
400



Inox
Stainless



Acciaio
Steel



Leghe leggere
Light alloys



Alluminio
Aluminum



Emulsione
Lubrificant

FRESE A CAROTARE IN HSS-CO 5% CON ATTACCO QUICK-IN 18 mm PER TRAPANI CON BASE MAGNETICA

Quick-IN 18 mm shank carbide tip core drill for magnetic drilling machines

21211 **HSS-CO 5%**

Attacco QUICK-IN - Serie lunga

QUICK-IN shank - Long serie



Confezione
Packaging

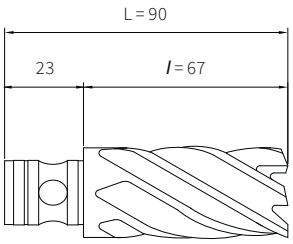


Ø	l	L	cod.	€ cad/each
12	67	90	2121101200	**63,720**
13	67	90	2121101300	**66,051**
14	67	90	2121101400	**66,051**
15	67	90	2121101500	**69,276**
16	67	90	2121101600	**69,276**
17	67	90	2121101700	**77,148**
18	67	90	2121101800	**77,148**
19	67	90	2121101900	**80,377**
20	67	90	2121102000	**86,589**
21	67	90	2121102100	**92,695**
22	67	90	2121102200	**100,243**
23	67	90	2121102300	**100,243**
24	67	90	2121102400	**107,682**
25	67	90	2121102500	**116,011**
26	67	90	2121102600	**116,011**
27	67	90	2121102700	**122,117**
28	67	90	2121102800	**128,327**
29	67	90	2121102900	**128,327**
30	67	90	2121103000	**134,656**
31	67	90	2121103100	**144,312**
32	67	90	2121103200	**145,980**
33	67	90	2121103300	**145,980**
34	67	90	2121103400	**152,309**
35	67	90	2121103500	**156,522**
36	67	90	2121103600	**166,966**
37	67	90	2121103700	**166,966**
38	67	90	2121103800	**174,290**
39	67	90	2121103900	**178,502**
40	67	90	2121104000	**181,506**
41	67	90	2121104100	**188,200**
42	67	90	2121104200	**192,417**
43	67	90	2121104300	**203,109**
44	67	90	2121104400	**209,817**
45	67	90	2121104500	**225,351**
46	67	90	2121104600	**235,904**
47	67	90	2121104700	**244,539**
48	67	90	2121104800	**258,796**
49	67	90	2121104900	**267,561**
50	67	90	2121105000	**278,536**





QUICK-IN



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Leghe leggere
Light alloys



Alluminio
Aluminum

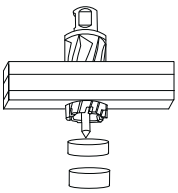


Emulsione
Lubrificant

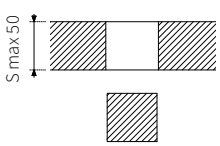
	Ø	cod.	€ cad/each
	Ø 6,35 x 102	28016002	**14,720**



Acciaio accoppiato
Stacked steel



Spessore lavorabile
Material tickness workable





Art. 21210309
€ 1.608,228

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Consigliate per il taglio molto veloce, economico e con grande rendimento in acciaio inox, acciai da costruzione, ferro, ghisa, leghe leggere e metalli non ferrosi in genere. Particolarmente adatto al taglio di piatti e lamiere di grandi spessori,tubi, putrelle e profilati.

The core drills allow a very fast and economical cut in stainless steel, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A CAROTARE IN HSS-CO 5% CON ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank HSS-CO 5% core drills for magnetic drilling machines

21206 **HSS-CO 5%**

Attacco Weldon - Serie corta

Weldon shank - Short serie



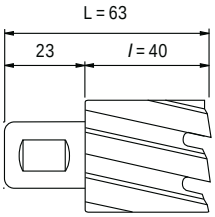
Confezione
Packaging







WELDON 19.05

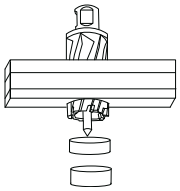


Ø	l	L	cod.	€ cad/each
12	40	63	212061200	**43,801**
13	40	63	212061300	**46,583**
14	40	63	212061400	**52,185**
15	40	63	212061500	**55,909**
16	40	63	212061600	**58,710**
17	40	63	212061700	**58,710**
18	40	63	212061800	**58,830**
19	40	63	212061900	**60,106**
20	40	63	212062000	**61,853**
21	40	63	212062100	**63,641**
22	40	63	212062200	**65,518**
23	40	63	212062300	**67,474**
24	40	63	212062400	**71,721**
25	40	63	212062500	**73,759**
26	40	63	212062600	**84,833**
27	40	63	212062700	**87,735**
28	40	63	212062800	**90,345**
29	40	63	212062900	**92,082**
30	40	63	212063000	**94,692**
31	40	63	212063100	**99,028**
32	40	63	212063200	**102,502**

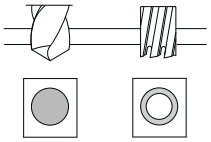
Ø	l	L	cod.	€ cad/each
33	40	63	212063300	**109,963**
34	40	63	212063400	**115,554**
35	40	63	212063500	**120,203**
36	40	63	212063600	**124,861**
37	40	63	212063700	**130,462**
38	40	63	212063800	**135,121**
39	40	63	212063900	**140,713**
40	40	63	212064000	**145,361**
41	40	63	212064100	**150,964**
42	40	63	212064200	**157,488**
43	40	63	212064300	**162,148**
44	40	63	212064400	**169,597**
45	40	63	212064500	**180,688**
46	40	63	212064600	**184,163**
47	40	63	212064700	**187,638**
48	40	63	212064800	**191,110**
49	40	63	212064900	**195,457**
50	40	63	212065000	**198,931**
55	40	63	212065500	**235,414**
60	40	63	212066000	**362,214**

	Ø	cod.	€ cad/each
	6,35 x 77	28016001	**12,686**

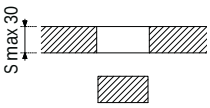
Acciaio accoppiato
Stacked steel



Vantaggi
Advantages



Spessore lavorabile
Material tickness workable





R ≤ 1200 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Leghe leggere
Light alloys



Alluminio
Aluminum



Emulsione
Lubrificant



Art. 21210306
€ 1.156,158

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Art. 21210406
€ 384,888

6 pcs
Ø 12 - 14 - 16
18 - 20 - 22

1 pcs







Le frese a carotare al cobalto 5% permettono un taglio molto veloce ed economico nell'acciaio inox, acciaio da costruzione, ferro, ghisa, leghe leggere e metalli non ferrosi in genere. Speciale per piatti e lamiere di grande spessore, tubi, putrelle e profilati.

The 5% cobalt core drills allow a very fast and economical cut in, stainless steel, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A CAROTARE IN HSS-CO 5% CON ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank HSS-CO 5% core drills for magnetic drilling machines

21207 **HSS-CO 5%**

Attacco Weldon - Serie lunga

Weldon shank - Long serie



Confezione
Packaging

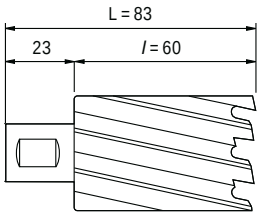


Ø	l	L	cod.	€ cad/each
12	60	83	212071200	**61,527**
13	60	83	212071300	**62,800**
14	60	83	212071400	**73,741**
15	60	83	212071500	**74,944**
16	60	83	212071600	**79,961**
17	60	83	212071700	**83,002**
18	60	83	212071800	**86,815**
19	60	83	212071900	**88,332**
20	60	83	212072000	**90,619**
21	60	83	212072100	**92,906**
22	60	83	212072200	**95,185**
23	60	83	212072300	**97,474**
24	60	83	212072400	**102,804**
25	60	83	212072500	**105,091**
26	60	83	212072600	**121,841**
27	60	83	212072700	**124,893**
28	60	83	212072800	**127,173**
29	60	83	212072900	**130,222**
30	60	83	212073000	**133,264**
31	60	83	212073100	**139,356**
32	60	83	212073200	**142,407**

Ø	l	L	cod.	€ cad/each
33	60	83	212073300	**145,448**
34	60	83	212073400	**148,500**
35	60	83	212073500	**151,540**
36	60	83	212073600	**156,949**
37	60	83	212073700	**160,506**
38	60	83	212073800	**164,360**
39	60	83	212073900	**166,824**
40	60	83	212074000	**169,054**
41	60	83	212074100	**196,473**
42	60	83	212074200	**200,276**
43	60	83	212074300	**204,091**
44	60	83	212074400	**207,894**
45	60	83	212074500	**248,250**
46	60	83	212074600	**252,065**
47	60	83	212074700	**255,870**
48	60	83	212074800	**260,436**
49	60	83	212074900	**264,249**
50	60	83	212075000	**268,816**
55	60	83	212075500	**316,790**
60	60	83	212076000	**375,274**

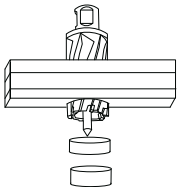
WELDON 19.05

Ø	cod.	€ cad/each
6,35 x 102	28016002	**14,720**

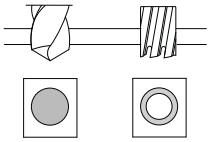


R ≤ 1200 N/mm²

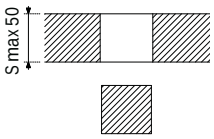
Acciaio accoppiato
Stacked steel



Vantaggi
Advantages



Spessore lavorabile
Material tickness workable



Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Leghe leggere *Light alloys*
- Alluminio *Aluminum*
- Emulsione *Lubrificant*



Art. 21210307
€ 1.625,258

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Art. 21210407
€ 518,239

6 pcs
Ø 12 - 14 - 16
18 - 20 - 22
1 pcs







Le frese a carotare al cobalto 5% permettono un taglio molto veloce ed economico nell'acciaio inox, acciaio da costruzione, ferro, ghisa, leghe leggere e metalli non ferrosi in genere. Speciale per piatti e lamiere di grande spessore, tubi, putrelle e profilati.

The 5% cobalt core drills allow a very fast and economical cut in, stainless steel, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A CAROTARE IN HSS-G CON ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank HSS core drills for magnetic drilling machines

21200 **HSS-G**

Attacco Weldon - Serie corta

Weldon shank - Short serie



Confezione
Packaging

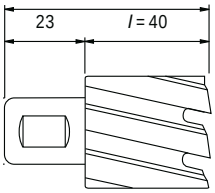






WELDON 19.05

L = 63

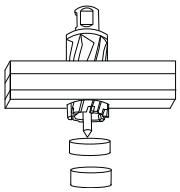


Ø	l	L	cod.	€ cad/each
12	40	63	212001200	**27,985**
13	40	63	212001300	**28,725**
14	40	63	212001400	**33,711**
15	40	63	212001500	**34,452**
16	40	63	212001600	**36,736**
17	40	63	212001700	**38,385**
18	40	63	212001800	**40,210**
19	40	63	212001900	**41,252**
20	40	63	212002000	**42,504**
21	40	63	212002100	**43,705**
22	40	63	212002200	**44,997**
23	40	63	212002300	**46,323**
24	40	63	212002400	**49,232**
25	40	63	212002500	**50,641**
26	40	63	212002600	**58,266**
27	40	63	212002700	**59,830**
28	40	63	212002800	**61,457**
29	40	63	212002900	**63,137**
30	40	63	212003000	**64,888**
31	40	63	212003100	**67,997**
32	40	63	212003200	**69,782**
33	40	63	212003300	**71,616**
34	40	63	212003400	**73,483**

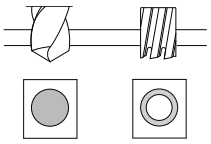
Ø	l	L	cod.	€ cad/each
35	40	63	212003500	**75,424**
36	40	63	212003600	**77,448**
37	40	63	212003700	**79,513**
38	40	63	212003800	**82,037**
39	40	63	212003900	**84,477**
40	40	63	212004000	**86,104**
41	40	63	212004100	**99,100**
42	40	63	212004200	**101,531**
43	40	63	212004300	**103,159**
44	40	63	212004400	**105,598**
45	40	63	212004500	**124,281**
46	40	63	212004600	**126,721**
47	40	63	212004700	**129,151**
48	40	63	212004800	**131,592**
49	40	63	212004900	**134,021**
50	40	63	212005000	**136,463**
51	40	63	212005100	**148,448**
52	40	63	212005200	**151,358**
53	40	63	212005300	**154,278**
54	40	63	212005400	**157,179**
55	40	63	212005500	**161,643**
60	40	63	212006000	**190,891**

Ø	cod.	€ cad/each
6,35 x 77	28016001	**12,686**

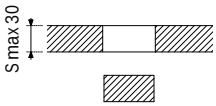
Acciaio accoppiato
Stacked steel



Vantaggi
Advantages



Spessore lavorabile
Material tickness workable



R ≤ 850 N/mm²

Applicazioni
Applications

- Acciaio *Steel*
- Leghe leggere *Light alloys* (Cu Zn Ni Ms)
- Alluminio *Aluminum* (Alu)
- Emulsione *Lubrificant*



Art. 21210300
€ 773,697

16 pcs
Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Art. 21210400
€ 296,449

6 pcs
Ø 12 - 14 - 16
18 - 20 - 22

1 pcs



Le frese a carotare permettono un taglio molto veloce ed economico nel ferro,acciaio da costruzione, ghisa, leghe leggere e metalli non ferrosi in genere. Speciale per piatti e lamiere di grande spessore, tubi, putrelle e profilati.

The core drills allow a very fast and economical cut in, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A CAROTARE IN HSS-G CON ATTACCO WELDON PER TRAPANI A BASE MAGNETICA

Weldon shank HSS core drills for magnetic drilling machines

21202 **HSS-G**

Attacco Weldon - Serie lunga

Weldon shank - Long serie



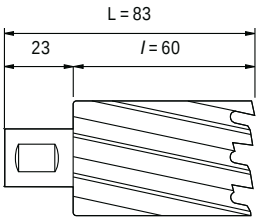
Confezione
Packaging



Ø	l	L	cod.	€ cad/each
12	60	83	212021200	**38,885**
13	60	83	212021300	**39,677**
14	60	83	212021400	**46,624**
15	60	83	212021500	**47,376**
16	60	83	212021600	**50,328**
17	60	83	212021700	**52,372**
18	60	83	212021800	**54,603**
19	60	83	212021900	**55,699**
20	60	83	212022000	**57,044**
21	60	83	212022100	**58,339**
22	60	83	212022200	**59,715**
23	60	83	212022300	**61,133**
24	60	83	212022400	**64,837**
25	60	83	212022500	**66,317**
26	60	83	212022600	**77,259**
27	60	83	212022700	**78,699**
28	60	83	212022800	**80,868**
29	60	83	212022900	**82,309**
30	60	83	212023000	**87,368**
31	60	83	212023100	**88,086**
32	60	83	212023200	**90,255**
33	60	83	212023300	**91,696**
34	60	83	212023400	**93,866**

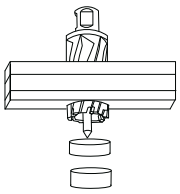
Ø	l	L	cod.	€ cad/each
35	60	83	212023500	**96,034**
36	60	83	212023600	**98,194**
37	60	83	212023700	**100,363**
38	60	83	212023800	**102,533**
39	60	83	212023900	**104,691**
40	60	83	212024000	**106,860**
41	60	83	212024100	**124,187**
42	60	83	212024200	**126,356**
43	60	83	212024300	**129,245**
44	60	83	212024400	**131,404**
45	60	83	212024500	**156,679**
46	60	83	212024600	**159,566**
47	60	83	212024700	**161,736**
48	60	83	212024800	**164,625**
49	60	83	212024900	**167,515**
50	60	83	212025000	**177,685**
51	60	83	212025100	**206,640**
52	60	83	212025200	**212,220**
53	60	83	212025300	**217,812**
54	60	83	212025400	**223,392**
55	60	83	212025500	**223,392**
60	60	83	212026000	**239,070**

WELDON 19.05

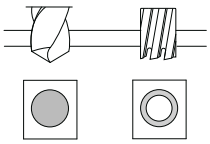


Ø	cod.	€ cad/each
6,35 x 102	28016002	**14,720**

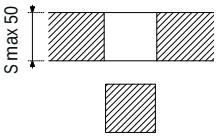
Acciaio accoppiato
Stacked steel



Vantaggi
Advantages



Spessore lavorabile
Material tickness workable



R ≤ 850 N/mm²

Applicazioni
Applications

Acciaio *Steel*

Leghe leggere *Light alloys*

Alluminio *Aluminum*

Emulsione *Lubrificant*



Art. 21210302
€ 1.028,914

16 pcs

Ø 14 - 15 - 16 - 17
18 - 19 - 20 - 21
22 - 23 - 24 - 25
28 - 30 - 32 - 35



Art. 21210402
€ 323,180

6 pcs

Ø 12 - 14 - 16
18 - 20 - 22

1 pcs







Le frese a carotare permettono un taglio molto veloce ed economico nel ferro,acciaio da costruzione, ghisa, leghe leggere e metalli non ferrosi in genere. Speciale per piatti e lamiere di grande spessore, tubi, putrelle e profilati.

The core drills allow a very fast and economical cut in, structural steel, iron, cast iron, light alloys and non-ferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.

FRESE A TAZZA TCT AD ALBERO MOBILE
PER FORARE LAMIERE, TUBI, PROFILATI IN ACCIAIO INOX E ACCIAI DURI TRATTATI
Tungsten carbide tipped hole saws for stainless and hard metal sheets

21042 | **TCT**

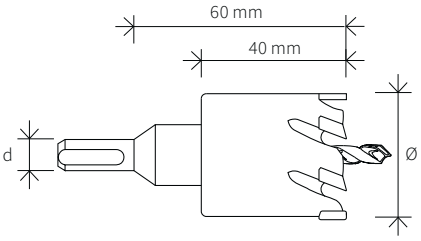
Serie lunga
Long serie



Confezione
Packaging



Inserti in metallo duro
Carbide tips



R ≤ 1300 N/mm²

Applicazioni
Applications

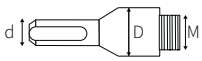
- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Leghe leggere *Light alloys*
- Plastica *Plastic*
- Emulsione *Lubrificant*

Ø	d	cod.	€ cad/each
20	10	2104202000	**44,875**
21	10	2104202100	**44,875**
22	10	2104202200	**44,875**
23	10	2104202300	**44,875**
24	10	2104202400	**44,875**
25	10	2104202500	**44,875**
26	10	2104202600	**51,706**
27	10	2104202700	**51,706**
28	10	2104202800	**51,706**
29	10	2104202900	**51,706**
30	10	2104203000	**51,706**
31	10	2104203100	**60,564**
32	10	2104203200	**60,564**
33	10	2104203300	**60,564**
34	10	2104203400	**60,564**
35	10	2104203500	**60,564**
36	10	2104203600	**68,433**
37	10	2104203700	**68,433**
38	10	2104203800	**68,433**
39	13	2104203900	**68,433**
40	13	2104204000	**68,433**
41	13	2104204100	**81,280**
42	13	2104204200	**81,280**
43	13	2104204300	**81,280**
44	13	2104204400	**81,280**

Ø	d	cod.	€ cad/each
45	13	2104204500	**81,280**
46	13	2104204600	**90,616**
47	13	2104204700	**90,616**
48	13	2104204800	**90,616**
49	13	2104204900	**90,616**
50	13	2104205000	**90,616**
51	13	2104205100	**104,431**
52	13	2104205200	**104,431**
53	13	2104205300	**104,431**
54	13	2104205400	**104,431**
55	13	2104205500	**104,431**
56	13	2104205600	**118,235**
57	13	2104205700	**118,235**
58	13	2104205800	**118,235**
59	13	2104205900	**118,235**
60	13	2104206000	**139,819**
65	13	2104206500	**139,819**
70	13	2104207000	**151,031**
75	13	2104207500	**162,251**
80	13	2104208000	**175,198**
85	13	2104208500	**196,773**
90	13	2104209000	**210,586**
95	13	2104209500	**221,806**
100	13	2104210000	**238,205**

	pcs.	cod.	€ cad/each
Ø ≥ 15mm	5	21045098	**0,706**

Gambo *Arbor* — **Per frese** *Fit hole cutters*



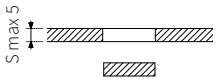
Per frese Ø	d	D	M	cod.	€ cad/each
Ø 15 ÷ 21	10	15	12 x 1,5	21045120	**9,009**
Ø 22 ÷ 38	10	19	14 x 1,5	21045121	**10,927**
Ø 39 ÷ 100	13	22	14 x 1,5	21045122	**13,508**

Punta pilota AISI M2
Pilot drill



Ø x L	cod.	€ cad/each
Ø 6 x 78	21045102	**13,964**

Spessore lavorabile
Material tickness workable







La speciale geometria variabile dei denti in metallo duro di altissima qualità consente il taglio altamente professionale e con grande rendimento in tubi, profilati e lamiere in acciaio inox, acciai alto-legati e materiali composti ad elevata resistenza.

The special variable geometry of the high-quality tungsten carbide teeth makes it possible to realise a very professional and efficient cut in pipes, structural sections and metal sheets in stainless steel, high-alloy steel and high-resistance materials.

FRESE A TAZZA TCT AD ALBERO MOBILE
PER FORARE LAMIERE IN ACCIAIO INOX, ACCIAI DURI TRATTATI
Tungsten carbide tipped hole saws for stainless and hard metal sheets

21040 | **TCT**

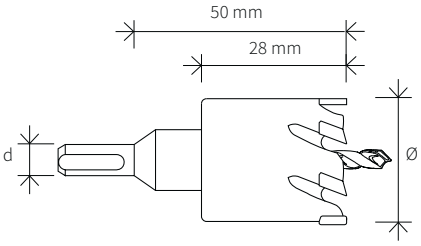
Serie corta
Short serie



Confezione
Packaging



Inserti in metallo duro
Carbide tips

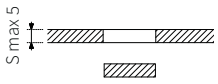


R ≤ 1300 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Leghe leggere *Light alloys*
Plastica *Plastic*
Emulsione *Lubrificant*

Spessore lavorabile
Material tickness workable

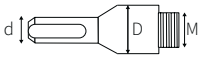


Ø	d	cod.	€ cad/each
15	10	2104001500	**35,199**
16	10	2104001600	**35,199**
17	10	2104001700	**35,199**
18	10	2104001800	**35,199**
19	10	2104001900	**36,728**
20	10	2104002000	**36,728**
21	10	2104002100	**36,728**
22	10	2104002200	**36,728**
23	10	2104002300	**37,492**
24	10	2104002400	**37,492**
25	10	2104002500	**37,492**
26	10	2104002600	**44,231**
27	10	2104002700	**44,231**
28	10	2104002800	**44,231**
29	10	2104002900	**44,231**
30	10	2104003000	**44,231**
31	10	2104003100	**51,511**
32	10	2104003200	**51,511**
33	10	2104003300	**51,511**
34	10	2104003400	**51,511**
35	10	2104003500	**51,511**
36	10	2104003600	**59,690**
37	10	2104003700	**59,690**
38	13	2104003800	**59,690**
39	13	2104003900	**59,690**
40	13	2104004000	**59,690**
41	13	2104004100	**68,357**
42	13	2104004200	**68,357**
43	13	2104004300	**68,357**
44	13	2104004400	**68,357**
45	13	2104004500	**68,357**
46	13	2104004600	**79,294**
47	13	2104004700	**79,294**

Ø	d	cod.	€ cad/each
48	13	2104004800	**79,294**
49	13	2104004900	**79,294**
50	13	2104005000	**79,294**
51	13	2104005100	**89,268**
52	13	2104005200	**89,268**
53	13	2104005300	**89,268**
54	13	2104005400	**89,268**
55	13	2104005500	**89,268**
56	13	2104005600	**107,124**
57	13	2104005700	**107,124**
58	13	2104005800	**107,124**
59	13	2104005900	**107,124**
60	13	2104006000	**120,832**
63	13	2104006300	**120,832**
65	13	2104006500	**120,832**
70	13	2104007000	**120,832**
75	13	2104007500	**156,429**
76	13	2104007600	**169,373**
80	13	2104008000	**169,373**
85	13	2104008500	**186,639**
90	13	2104009000	**201,734**
95	13	2104009500	**212,529**
100	13	2104010000	**229,785**
***105**	13	2104010500	**287,679**
***110**	13	2104011000	**294,871**
***115**	13	2104011500	**338,026**
***120**	13	2104012000	**363,206**
***125**	13	2104012500	**370,811**
***130**	13	2104013000	**385,661**
***135**	13	2104013500	**399,697**
***140**	13	2104014000	**424,599**
***145**	13	2104014500	**439,087**
***150**	13	2104015000	**449,410**

***Integrale** / *One piece*

		pcs.	cod.	€ cad/each
	**Ø ≥ 15mm**	5	21045098	**0,706**

Gambo *Arbor*	Per frese *Fit hole cutters*	d	D	M	cod.	€ cad/each
	**Ø 15 ÷ 21**	10	15	12 x 1,5	21045120	**9,009**
	Ø 22 ÷ 38	10	19	14 x 1,5	21045121	**10,927**
	Ø 39 ÷ 100	13	22	14 x 1,5	21045122	**13,508**

Punta pilota AISI M2 *Pilot drill*	Per frese *Fit hole cutters*	Ø x L	cod.	€ cad/each
	**Ø 15 ÷ 100**	6 x 62	21045100	**9,009**
	Ø 105 ÷ 120	8 x 62	21045101	**12,920**



Art. 21055302
€ 315,168
8 pcs
Ø 51 ÷ 54 mm







Ø 51 ÷ 54 mm
210705546B
Ø 6 ÷ 8 mm
HM4 Ø 12

Art. 21055303
€ 315,168
8 pcs
Ø 54 ÷ 57 mm







Ø 54 ÷ 57 mm
210705546B
Ø 6 ÷ 8 mm
HM4 Ø 12



Art. 21055130
€ 1.324,994
28 pcs
Ø 15 ÷ 40 x 1 + 45 - 50mm



Art. 21055300
€ 364,403
8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

FRESE A TAZZA TCT AD ALBERO FISSO PER FORARE LAMIERE, TUBI, PROFILATI IN ACCIAIO INOX E ACCIAI DURI TRATTATI

Tungsten carbide tipped hole saws for stainless and hard metal sheets

TCTlite

21043 | TCT

Serie corta
Short serie



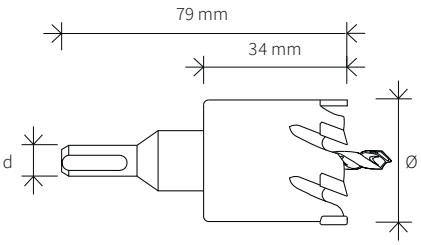
Confezione
Packaging



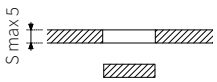
Ø	d	cod.	€ cad/each
12	10	2104301200	**9,000**
14	10	2104301400	**13,550**
15	10	2104301500	**14,400**
16	10	2104301600	**15,350**
17	10	2104301700	**16,350**
18	10	2104301800	**17,350**
19	10	2104301900	**18,300**
20	10	2104302000	**19,250**
21	10	2104302100	**20,200**
22	10	2104302200	**21,200**
23	10	2104302300	**22,150**
24	10	2104302400	**23,100**
25	10	2104302500	**24,100**
26	10	2104302600	**25,050**
27	10	2104302700	**26,000**
28	10	2104302800	**27,000**
29	10	2104302900	**27,950**
30	10	2104303000	**28,900**
31	10	2104303100	**29,950**
32	10	2104303200	**30,850**
33	10	2104303300	**31,800**
34	10	2104303400	**32,700**
35	10	2104303500	**33,750**
36	10	2104303600	**34,700**
37	10	2104303700	**35,650**
38	10	2104303800	**36,600**
39	10	2104303900	**37,650**
40	10	2104304000	**38,600**
41	10	2104304100	**39,500**
42	10	2104304200	**40,450**
43	10	2104304300	**41,450**

Ø	d	cod.	€ cad/each
44	10	2104304400	**42,350**
45	10	2104304500	**43,300**
46	10	2104304600	**44,300**
47	10	2104304700	**45,250**
48	10	2104304800	**46,250**
49	10	2104304900	**47,200**
50	10	2104305000	**48,150**
51	10	2104305100	**49,150**
52	10	2104305200	**50,200**
53	10	2104305300	**51,100**
54	10	2104305400	**52,100**
55	10	2104305500	**53,000**
56	10	2104305600	**54,200**
57	10	2104305700	**55,050**
58	10	2104305800	**56,800**
60	10	2104306000	**57,900**
65	10	2104306500	**67,250**
70	10	2104307000	**71,650**
75	10	2104307500	**76,600**
80	10	2104308000	**81,200**
85	10	2104308500	**86,700**
90	10	2104309000	**92,250**
95	10	2104309500	**97,500**
100	10	2104310000	**102,550**
105	10	2104310500	**113,650**
110	10	2104311000	**118,700**
115	10	2104311500	**124,550**
120	10	2104312000	**128,400**
125	10	2104312500	**133,950**
130	10	2104313000	**139,350**

Inserti in metallo duro
Carbide tips



Spessore lavorabile
Material tickness workable



R ≤ 1100 N/mm²



Art. 21055305
€ 200,000

8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

Applicazioni
Applications

- Inox — *Stainless*
- Acciaio — *Steel*
- Alluminio — *Aluminum*
- Leghe leggere — *Light alloys*
- Plastica — *Plastic*
- Emulsione — *Lubrificant*

FRESE A TAZZA IN HSS-CO 5% RETTIFICATE PER FORARE LAMIERE IN ACCIAIO INOX, ACCIAI ALTAMENTE LEGATI, FERRO, LEGHE LEGGERE E METALLI IN GENERE.

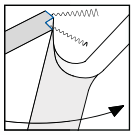
HSS-CO fully ground hole cutters

21011 **HSS-CO 5%** **AISI M35**

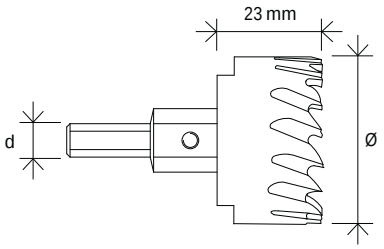


Confezione
Packaging

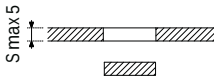




HRC≈ 64 ÷ 65



Spessore lavorabile
Material tickness workable



R ≤ 1000 N/mm²

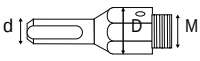
Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Alluminio *Aluminum*
- Leghe leggere *Light alloys*
- Emulsione *Lubrificant*

Ø	Z	cod.	€ cad/each
12	4	2101101200	**22,933**
13	4	2101101300	**22,933**
14	4	2101101400	**23,425**
15	4	2101101500	**23,425**
16	4	2101101600	**23,425**
17	4	2101101700	**23,425**
18	4	2101101800	**23,425**
19	6	2101101900	**24,168**
20	6	2101102000	**25,613**
21	6	2101102100	**26,798**
22	6	2101102200	**28,036**
23	6	2101102300	**30,221**
24	6	2101102400	**30,711**
25	6	2101102500	**31,746**
26	8	2101102600	**33,865**
27	8	2101102700	**34,390**
28	8	2101102800	**35,797**
29	8	2101102900	**37,088**
30	8	2101103000	**37,731**
31	10	2101103100	**39,272**
32	10	2101103200	**40,457**
33	10	2101103300	**41,764**
34	10	2101103400	**43,204**
35	10	2101103500	**45,922**
36	10	2101103600	**48,140**
37	10	2101103700	**48,670**
38	10	2101103800	**49,972**

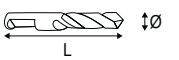
Ø	Z	cod.	€ cad/each
39	10	2101103900	**54,196**
40	12	2101104000	**54,196**
41	12	2101104100	**54,882**
42	12	2101104200	**58,103**
43	12	2101104300	**60,145**
44	14	2101104400	**61,240**
45	14	2101104500	**64,764**
46	14	2101104600	**64,764**
47	14	2101104700	**65,331**
48	14	2101104800	**75,000**
49	14	2101104900	**77,000**
50	14	2101105000	**82,000**
51	16	2101105100	**85,863**
52	16	2101105200	**87,654**
53	16	2101105300	**89,845**
54	16	2101105400	**93,331**
55	16	2101105500	**94,990**
56	16	2101105600	**95,631**
57	16	2101105700	**95,631**
58	16	2101105800	**99,354**
59	16	2101105900	**102,547**
60	16	2101106000	**110,000**
65	18	2101106500	**132,227**
70	18	2101107000	**141,830**
75	20	2101107500	**152,746**
80	20	2101108000	**170,726**

	pcs.	cod.	€ cad/each
Ø ≥ 20mm	5	21005098	**0,706**



Gambo *Arbor*	Per frese *Fit hole cutters*	L	d	M	cod.	€ cad/each
	Ø 12 ÷ 14	56	8	10 x 1,25	21005099	**5,841**
	Ø 15 ÷ 34	56	10	12 x 1,25	21005100	**5,841**
	Ø 35 ÷ 50	56	10	14 x 1,5	21005102	**8,749**
	Ø 51 ÷ 120	60	12	16 x 1,5	21005101	**8,749**

Punta pilota AISI M35 *Pilot drill*	Per frese *Fit hole cutters*	Ø x L	cod.	€ cad/each
Ø 12 ÷ 80		6 x 52	21005115	**4,511**





Art. 21012300
€ 287,676
8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

Art. 21012301
€ 191,787
6 pcs
Ø 16 - 18 - 20
22 - 25 - 30







La speciale geometria variabile dei denti in metallo duro di altissima qualità consente il taglio altamente professionale e con grande rendimento in tubi, profilati e lamiere in acciaio inox, acciai alto-legati e materiali composti ad elevata resistenza.

The special variable geometry of the high-quality tungsten carbide teeth makes it possible to realise a very professional and efficient cut in pipes, structural sections and metal sheets in stainless steel, high-alloy steel and high-resistance materials.

FRESE A TAZZA IN HSS-G RETTIFICATE RIVESTITE AL TIALN PER FORARE LAMIERE IN ACCIAIO ALTOLEGATO, ACCIAIO INOX, FERRO, TUTTI I MATERIALI METALLICI, PLASTICA DURA

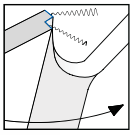
HSS-G+TiAlN fully ground hole cutters

21325 **HSS-G** **TiAlN**

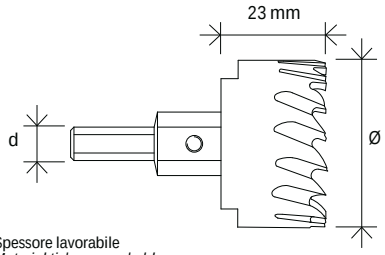


Confezione
Packaging

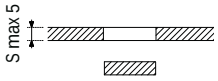




HSS-G+TiAlN
HV 0,05 = 3300



Spessore lavorabile
Material tickness workable



R ≤ 1300 N/mm²

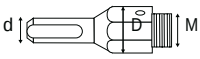
Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*

Ø	Z	cod.	€ cad/each
12	5	2132501200	**33,098**
13	5	2132501300	**33,098**
14	6	2132501400	**33,098**
15	6	2132501500	**33,098**
16	6	2132501600	**35,900**
17	6	2132501700	**35,900**
18	6	2132501800	**35,900**
19	8	2132501900	**37,477**
20	8	2132502000	**37,477**
21	8	2132502100	**38,919**
22	8	2132502200	**38,919**
23	8	2132502300	**41,708**
24	8	2132502400	**41,708**
25	8	2132502500	**41,708**
26	10	2132502600	**44,510**
27	10	2132502700	**44,510**
28	10	2132502800	**44,510**
29	10	2132502900	**44,510**
30	10	2132503000	**46,257**
31	12	2132503100	**46,257**
32	12	2132503200	**46,257**
33	12	2132503300	**46,257**
34	12	2132503400	**46,257**
35	12	2132503500	**46,257**
36	12	2132503600	**54,244**
37	12	2132503700	**54,244**
38	12	2132503800	**54,244**
39	12	2132503900	**59,825**
40	14	2132504000	**59,825**

Ø	Z	cod.	€ cad/each
41	14	2132504100	**67,003**
42	14	2132504200	**67,003**
43	14	2132504300	**69,399**
44	16	2132504400	**69,399**
45	16	2132504500	**73,379**
46	16	2132504600	**73,379**
47	16	2132504700	**73,379**
48	16	2132504800	**78,972**
49	16	2132504900	**78,972**
50	16	2132505000	**78,972**
51	18	2132505100	**79,924**
52	18	2132505200	**79,924**
53	18	2132505300	**79,924**
54	18	2132505400	**79,924**
55	18	2132505500	**79,924**
56	18	2132505600	**82,239**
57	18	2132505700	**82,239**
58	18	2132505800	**82,239**
59	18	2132505900	**82,239**
60	18	2132506000	**82,239**
65	20	2132506500	**117,835**
70	20	2132507000	**125,139**
75	22	2132507500	**134,961**
80	22	2132508000	**147,224**
85	24	2132508500	**164,398**
90	24	2132509000	**177,896**
95	24	2132509500	**187,719**
100	24	2132510000	**201,207**

		pcs.	cod.	€ cad/each
	**Ø ≥ 20mm**	5	21005098	**0,706**

Gambo *Arbor*	Per frese *Fit hole cutters*	L	d	M	cod.	€ cad/each
	**Ø 12 ÷ 14**	56	8	10 x 1,25	21005099	**5,841**
	Ø 15 ÷ 34	56	10	12 x 1,25	21005100	**5,841**
	Ø 35 ÷ 50	56	10	14 x 1,5	21005102	**8,749**
	Ø 51 ÷ 100	60	12	16 x 1,5	21005101	**8,749**

Punta pilota AISI M35 *Pilot drill*	Per frese *Fit hole cutters*	Ø x L	cod.	€ cad/each
	**Ø 12 ÷ 100**	6 x 52	21005115	**4,511**



Art. 21335300
€ 329,637
8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

Art. 21335301
€ 251,729
6 pcs
Ø 16 - 18 - 20
22 - 25 - 30



Art. 21335100
€ 1.985,832
39 pcs
Ø 12 ÷ 50 x 1 mm

Art. 21335102
€ 937,713
21 pcs
Ø 18 ÷ 35 x 1 + 36 - 38 - 40 mm

Art. 21335101
€ 1.408,328
31 pcs
Ø 12 ÷ 40 x 1 + 45-50 mm



Frese a tazza HSS+TiAlN: più si "scalda", più rende. È un esclusivo rivestimento PVD che permette il taglio a secco ad elevati parametri di taglio e con rendimenti eccezionali nell'acciaio inox e in tutti i materiali in genere.

HSS+TiAlN hole cutters: The more it "heats" the more it performs. It is a special PVD Coating which allows the dry cut with high cutting parameters, and a great performance while drilling into the stainless steel and all kind of materials.

FRESE A TAZZA IN HSS-G RETTIFICATE RIVESTITE AL TIN PER FORARE LAMIERE IN ACCIAIO ALTOLEGATO, ACCIAIO INOX, FERRO, TUTTI I MATERIALI METALLICI, PLASTICA DURA

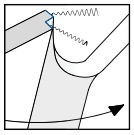
HSS-G+TiN fully ground hole cutters

21300 **HSS-G** **TiN**

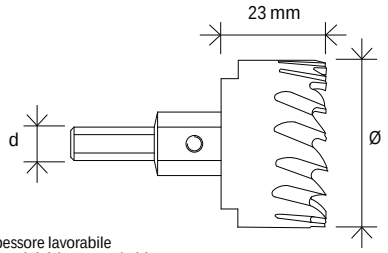


Confezione
Packaging

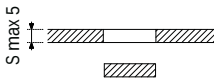




HSS-G+TiN
HV 0,05 = 2300



Spessore lavorabile
Material tickness workable



R ≤ 1000 N/mm²

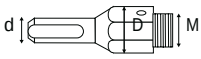
Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*
Emulsione *Lubrificant*

Ø	Z	cod.	€ cad/each
12	5	2130001200	**28,432**
13	5	2130001300	**28,432**
14	6	2130001400	**28,432**
15	6	2130001500	**28,432**
16	6	2130001600	**31,308**
17	6	2130001700	**31,308**
18	6	2130001800	**31,308**
19	8	2130001900	**31,308**
20	8	2130002000	**31,308**
21	8	2130002100	**34,241**
22	8	2130002200	**34,241**
23	8	2130002300	**37,045**
24	8	2130002400	**37,045**
25	8	2130002500	**37,045**
26	10	2130002600	**39,887**
27	10	2130002700	**39,887**
28	10	2130002800	**39,887**
29	10	2130002900	**39,887**
30	10	2130003000	**41,177**
31	12	2130003100	**41,177**
32	12	2130003200	**41,177**
33	12	2130003300	**41,177**
34	12	2130003400	**41,177**
35	12	2130003500	**41,177**
36	12	2130003600	**49,931**
37	12	2130003700	**49,931**
38	12	2130003800	**49,931**
39	12	2130003900	**55,692**
40	14	2130004000	**55,692**

Ø	Z	cod.	€ cad/each
41	14	2130004100	**61,793**
42	14	2130004200	**61,793**
43	14	2130004300	**64,281**
44	16	2130004400	**64,281**
45	16	2130004500	**67,754**
46	16	2130004600	**67,754**
47	16	2130004700	**67,754**
48	16	2130004800	**72,940**
49	16	2130004900	**72,940**
50	16	2130005000	**72,940**
51	18	2130005100	**78,175**
52	18	2130005200	**78,175**
53	18	2130005300	**78,175**
54	18	2130005400	**78,175**
55	18	2130005500	**78,175**
56	18	2130005600	**79,466**
57	18	2130005700	**79,466**
58	18	2130005800	**79,466**
59	18	2130005900	**79,466**
60	18	2130006000	**79,466**
65	20	2130006500	**105,984**
70	20	2130007000	**112,006**
75	22	2130007500	**120,700**
80	22	2130008000	**132,000**
85	24	2130008500	**147,231**
90	24	2130009000	**159,917**
95	24	2130009500	**168,800**
100	24	2130010000	**181,496**

		pcs.	cod.	€ cad/each
	**Ø ≥ 20mm**	5	21005098	**0,706**

Gambo *Arbor*	Per frese *Fit hole cutters*	L	d	M	cod.	€ cad/each
	**Ø 12 ÷ 14**	56	8	10 x 1,25	21005099	**5,841**
	Ø 15 ÷ 34	56	10	12 x 1,25	21005100	**5,841**
	Ø 35 ÷ 50	56	10	14 x 1,5	21005102	**8,749**
	Ø 51 ÷ 100	60	12	16 x 1,5	21005101	**8,749**

Punta pilota AISI M35 *Pilot drill*	Per frese *Fit hole cutters*	Ø x L	cod.	€ cad/each
	**Ø 12 ÷ 100**	6 x 52	21005115	**4,511**



Art. 21320300
€ 293,675
8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

Art. 21320301
€ 221,762
6 pcs
Ø 16 - 18 - 20
22 - 25 - 30



Art. 21320100
€ 1.692,540
39 pcs
Ø 12 ÷ 50 x 1 mm

Art. 21320101
€ 1.222,655
31 pcs
Ø 12 ÷ 40 x 1 + 45-50 mm

Art. 21320102
€ 863,047
21 pcs
Ø 18 ÷ 35 x 1 + 36 - 38 - 40 mm



Il Rivestimento in Nitruro di Titanio, elevando la durezza superficiale e riducendo notevolmente il coefficiente di attrito, permette il taglio negli acciai alto legati ed in particolare nell'acciaio inox. Le frese al TiN sono, inoltre molto adatte per il taglio dell'alluminio e di tutti i materiali abrasivi (plastica dura, vetroresina). Naturalmente, il rendimento nel taglio degli acciai dolci è elevatissimo.

The Titanium Nitride Coating allows high performances in stainless steel cutting, low alloy steel cutting. Aluminium and abrasive materials such as fiberglass.

FRESE A TAZZA IN HSS-G RETTIFICATE PER FORARE LAMIERE IN ACCIAIO, FERRO, LEGHE LEGGERE, TUTTI I MATERIALI METALLICI, PLASTICA DURA

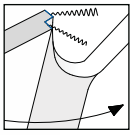
HSSG fully ground hole cutters

21001 HSS-G



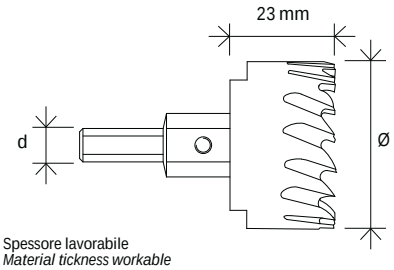
Confezione
Packaging



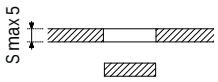


HSS-G
HRC = 64

Taglio laterale:
miglior estrazione
dei trucioli
Side cut: easy chips removal



Spessore lavorabile
Material tickness workable



R ≤ 800 N/mm²

Applicazioni
Applications

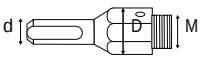
Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*
Emulsione *Lubrificant*

Ø	Z	cod.	€ cad/each	Ø	Z	cod.	€ cad/each
*10	5	2100101000	18,346	41	14	2100104100	40,653
12	5	2100101200	17,641	42	14	2100104200	41,502
13	5	2100101300	17,641	43	14	2100104300	42,961
14	6	2100101400	18,019	44	16	2100104400	43,743
15	6	2100101500	18,019	45	16	2100104500	46,260
16	6	2100101600	18,019	46	16	2100104600	46,260
17	6	2100101700	18,019	47	16	2100104700	46,665
18	6	2100101800	18,019	48	16	2100104800	49,389
19	8	2100101900	18,591	49	16	2100104900	50,315
20	8	2100102000	19,702	50	16	2100105000	50,315
21	8	2100102100	20,614	51	18	2100105100	61,331
22	8	2100102200	21,566	52	18	2100105200	62,610
23	8	2100102300	23,247	53	18	2100105300	64,175
24	8	2100102400	23,624	54	18	2100105400	66,665
25	8	2100102500	24,420	55	18	2100105500	67,850
26	10	2100102600	26,050	56	18	2100105600	68,308
27	10	2100102700	26,454	57	18	2100105700	68,308
28	10	2100102800	27,536	58	18	2100105800	70,967
29	10	2100102900	28,529	59	18	2100105900	73,248
30	10	2100103000	29,024	60	18	2100106000	73,248
31	12	2100103100	30,209	65	20	2100106500	94,448
32	12	2100103200	31,121	70	20	2100107000	101,307
33	12	2100103300	32,126	75	22	2100107500	109,104
34	12	2100103400	33,234	80	22	2100108000	121,947
35	12	2100103500	34,016	85	24	2100108500	137,527
36	12	2100103600	35,659	90	24	2100109000	152,299
37	12	2100103700	36,052	95	24	2100109500	163,589
38	12	2100103800	37,016	100	24	2100110000	176,277
39	12	2100103900	40,145	120	30	2100112000	313,544
40	14	2100104000	40,145				

***Integrale**
*One piece



	pcs.	cod.	€ cad/each
Ø ≥ 20mm	5	21005098	0,706



Gambo *Arbor*	Per frese *Fit hole cutters*	L	d	M	cod.	€ cad/each
	Ø 12 ÷ 14	56	8	10 x 1,25	21005099	5,841
	Ø 15 ÷ 34	56	10	12 x 1,25	21005100	5,841
	Ø 35 ÷ 50	56	10	14 x 1,5	21005102	8,749
	Ø 51 ÷ 120	60	12	16 x 1,5	21005101	8,749



Punta Pilota AISI M2 *Arbor*	Per frese *Fit hole cutters*	d	cod.	€ cad/each
	Ø 10	4 x 50	21005109	2,101
	Ø 12 ÷ 120	6 x 52	21005110	3,104

Innovativo disegno dei denti e taglio laterale: migliore scarico dei trucioli con grande rendimento del taglio.

Upgrade teeth design and side cut: easy chips removal with high cutting performances



Prolunga 400mm *Extension 400mm*	Per frese *Fit hole cutters*	L	d	M	cod.	€ cad/each
	Ø 15 ÷ 34	400	13	12 x 1,25	21005120	33,340
	Ø 35 ÷ 50	400	13	14 x 1,5	21005122	33,340
	Ø 51 ÷ 120	400	13	16 x 1,5	21005121	33,340

ASSORTIMENTI FRESE PERFORATRICI A TAZZA IN HSS-G
HSS-G hole-cutters sets

HSS-G



Art. 21010100
€ 1.222,517

39 pcs
Ø 12 ÷ 50 x 1 mm

Art. 21010101
€ 861,030

31 pcs
Ø 12 ÷ 40 x 1 + 45-50 mm

Art. 21010102
€ 580,901

21 pcs
Ø 18 ÷ 35 x 1 + 36 - 38 - 40 mm

Art. 21010104
€ 270,490

11 pcs
Ø 16 - 18 - 20 - 21 - 22 - 25
27 - 28 - 30 - 32 - 35 mm



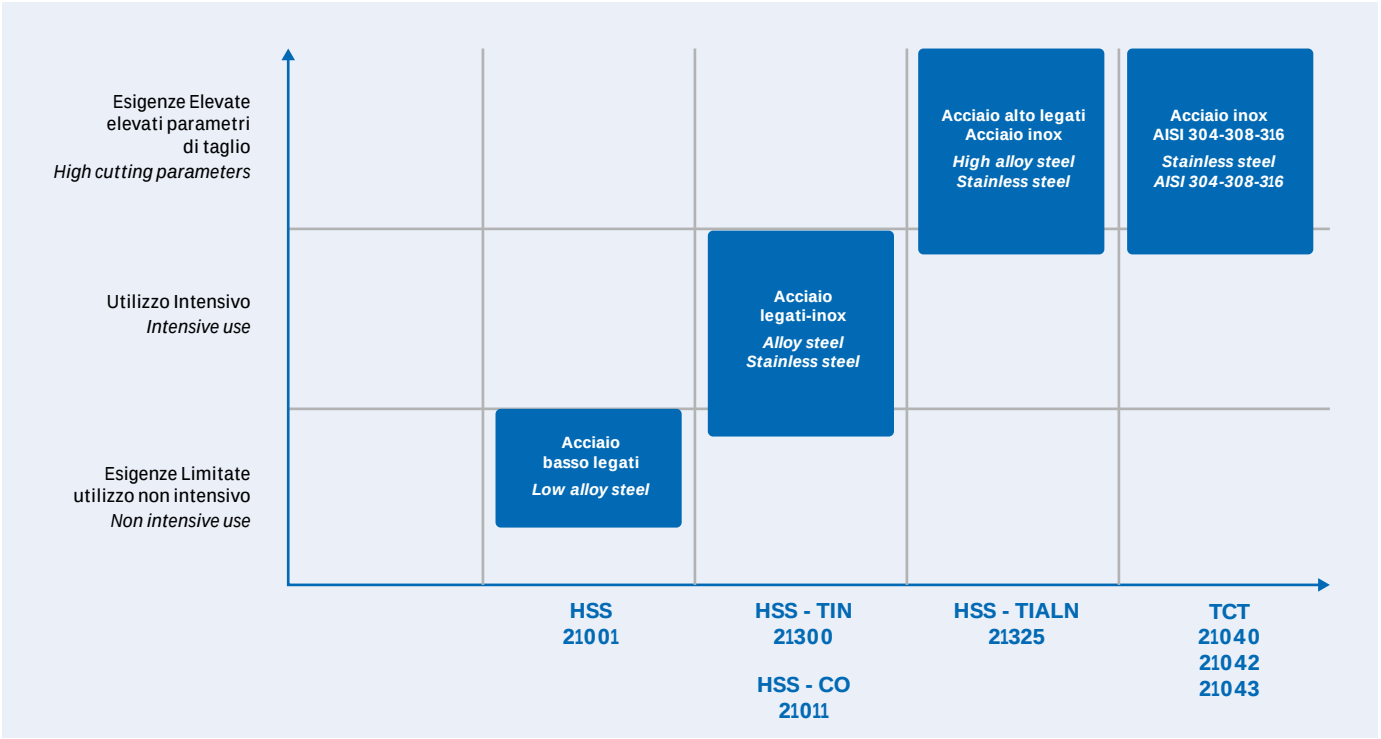
Art. 21010300
€ 228,455

8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35 mm

Art. 21010301
€ 169,223

6 pcs
Ø 16 - 18 - 20
22 - 25 - 30 mm

Guida alla scelta della tazza
Choosing chart









Dentatura ricavata interamente di rettifica, taglio laterale rompitruciolo, molla di espulsione del dischetto.
Grande rendimento, precisione di foratura nel taglio anche profondo di tutte le lamiere in acciaio, leghe leggere, materiali metallici in genere, utensile riaffilabile.

Fully ground cutting teeth with chipbreaker, regrindable. High performances and precision in hole-making into metal sheets, light alloys, all kind of metals.

SEGHE A TAZZA CON DENTI IN METALLO DURO - USO INTENSIVO
Carbide tipped professional multi-purpose hole saws

21100 | TCT

Uso intensivo - multimateriale
Intensive use - multiporpuse

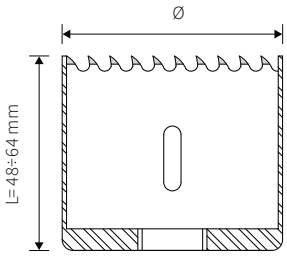


Confezione
Packaging



Inserti in metallo duro
Carbide tips

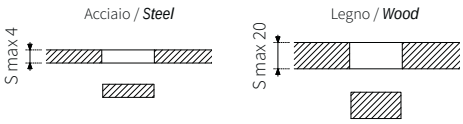
Ø mm	Ø pollici / *inch*	d *filetto / thread*	cod.	€ cad/each
19	3/4	UNF 1/2 x 20	2110001900	**18,346**
22	7/8		2110002200	**20,792**
25	1”		2110002500	**20,792**
29	1-1/8		2110002900	**21,638**
32	1-1/4	UNF 5/8 x 18	2110003200	**23,417**
35	1-3/8		2110003500	**23,417**
38	1-1/2		2110003800	**25,092**
44	1-3/4		2110004400	**26,342**
51	2”		2110005100	**28,431**
57	2-1/4		2110005700	**34,283**
64	2-1/2		2110006400	**35,957**
68	2-23/32		2110006800	**37,632**
76	3”		2110007600	**39,307**
89	3-1/2		2110008900	**47,040**
108	4-1/4		2110010800	**61,152**



Per frese *Fit hole cutters*	Ø	d *mm*	cod.	€ cad/each
	19 ÷ 29	HEX 8,5	210707519	**16,636**
	32 ÷ 108	HEX 8,5	210707546	**29,609**
		6,35x90	21070202	**5,254**



Spessore lavorabile
Material tickness workable





Art. 21109301
€ 239,903

6 pcs
Ø 19 - 22 - 29
38 - 44 - 57

5519 - 5546

2pcs
Ø 7 x 100

R ≤ 1200 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Plastica *Plastic*
- Mattoni *Bricks*
- Ceramica *Ceramics*
- Legno *Wood*

Art. 21101 Self
Disponibile su richiesta
On demand





Taglio professionale nel legno, plastica, fibre di vetro, ceramica, piastrelle, materiali edili leggeri, acciaio inox, fragranite.
Max profondità di foratura: 40 mm.

Multi purpose hole saws for wood, plastics, tiles, light construction materials, stainless steel, fragranite. Maximum cutting depth: 40 mm.

SEGHE A TAZZA CON DENTI IN METALLO DURO
PER LEGNO, TRUCIOLATI, AGGLOMERATI, ETC.
Carbide tipped hole saws for wood

05078 | **TCT**

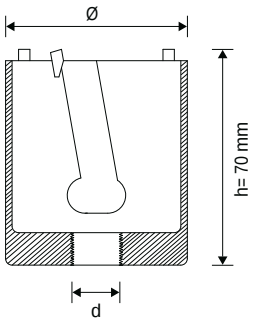
Alto rendimento - multimateriale
High performance - multiporpuse



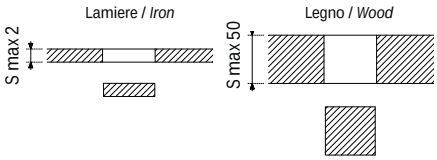
Confezione
Packaging



Inserti in metallo duro
Carbide tips



Spessore lavorabile
Material tickness workable



R ≤ 1200 N/mm²

Applicazioni
Applications

- Acciaio *Steel*
- Mattoni *Bricks*
- Plastica *Plastic*
- Sandwich
- Legno *Wood*
- Multistrato *Multilayer*
- Truciolato *Chipboard*

Art. 05081 Self
Disponibile su richiesta
On demand

Ø *mm*	Ø **pollici /** *inch*	d *filetto / thread*	pcs.	cod.	€ cad/each
19	3/4”	UNF 1/2 x 20	1	0507801900	**11,969**
22	7/8”		1	0507802200	**12,469**
25	1”		1	0507802500	**13,165**
29	1.1/8”		1	0507802900	**13,965**
32	1.1/4”	UNF 5/8 x 18	1	0507803200	**15,152**
35	1.3/8”		1	0507803500	**16,578**
38	1.1/2”		1	0507803800	**17,924**
41	1.5/8”		1	0507804100	**19,350**
44	1.3/4”		1	0507804400	**20,786**
48	1.7/8”		1	0507804800	**22,721**
51	2”		1	0507805100	**24,068**
54	2.1/8”		1	0507805400	**24,077**
57	2.1/4”		1	0507805700	**25,435**
60	2.3/8”		1	0507806000	**25,214**
64	2.1/2”		1	0507806400	**26,855**
67	2.5/8”		1	0507806700	**28,123**
68	2.23/32”		1	0507806800	**30,136**
70	2.3/4”		1	0507807000	**30,136**
73	2.7/8”		1	0507807300	**31,412**
76	3”		1	0507807600	**32,760**
79	3.1/8”		1	0507807900	**34,037**
83	3.1/4”		1	0507808300	**35,748**
89	3.1/2”		1	0507808900	**38,301**
95	3.3/4”		1	0507809500	**40,917**
102	4”		1	0507810200	**48,319**
114	4.1/2”		1	0507811400	**54,012**
127	5”		1	0507812700	**60,209**
140	5.1/2”		1	0507814000	**66,352**
152	6”		1	0507815200	**72,027**

Per frese *Fit hole saws*	Ø	d *mm*	cod.	€ cad/each
	**Ø 19 ÷ 29**	HEX 8,5	210705580	**13,338**
	Ø 32 ÷ 152	HEX 8,5	210705581	**23,339**
		6,35 x 100	21070204	**5,254**



Art. 05079504
€ 1.078,814

32 pcs
Ø 19 - 22 - 25 - 29 - 32
35 - 38 - 41 - 44 - 48
51 - 57 - 60 - 70 - 83
102 (2x)

4 pcs
5580
14÷29

6 pcs
5581
32÷152

5 pcs
21070204

400 x 650 x 320mm



Art. 05079300
€ 243,688

9 pcs
Ø 19 - 22 - 29 - 35
38 - 44 - 51 - 57 -64

5580 - 5581

Art. 05079301
€ 164,998

6 pcs
Ø 19 - 22 - 29
38 - 44 - 57

5580 - 5581



Per forare con grande rendimento legno duro e dolce, stratificati, truciolati, agglomerati, laminati, materiali sandwich. Taglia anche plastica dura, mattoni forati e porosi, lamiera sottile dolce. max profondità di foratura 50 mm.

High performance on drilling into tough and soft wood, plywood, chipboards, agglomerates, laminated, porous bricks and thin metal sheet. Maximum cutting depth 50mm.

FRESE A TAZZA CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI PER MATERIALI EDILI DURI, PIASTRELLE, GRANITO, ETC.

Carbide grit hole saws, high quality

21105 MD

Per materiali edili duri

For hard building materials

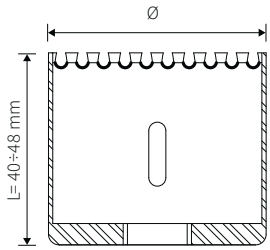


Confezione
Packaging



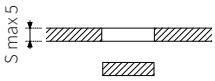
Ø mm	Ø pollici / inch	d filetto / thread	pcs.	cod.	€ cad/each
16	5/8	UNF 1/2 x 20	1	2110501600	**17,873**
19	3/4		1	2110501900	**17,873**
20	-		1	2110502000	**18,292**
22	7/8		1	2110502200	**18,292**
25	1”		1	2110502500	**18,292**
29	1-1/8		1	2110502900	**19,024**
32	1-1/4	UNF 5/8 x 18	1	2110503200	**20,140**
35	1-3/8		1	2110503500	**20,800**
38	1-1/2		1	2110503800	**22,263**
44	1-3/4		1	2110504400	**24,373**
48	1-7/8		1	2110504800	**24,373**
51	2”		1	2110505100	**24,373**
54	2-1/8		1	2110505400	**24,373**
57	2-1/4		1	2110505700	**24,735**
60	2-3/8		1	2110506000	**25,863**
64	2-1/2		1	2110506400	**25,863**
70	2-3/4		1	2110507000	**30,876**
76	3”		1	2110507600	**31,942**
83	3-1/4		1	2110508300	**32,988**
86	3-3/8		1	2110508600	**34,007**
95	3-3/4		1	2110509500	**34,380**
102	4”		1	2110510200	**34,380**
114	4-1/2		1	2110511400	**40,687**

Inserti in carburo di tungsteno
Carbide grit



Utilizzo
a rotazione
Rotary use only

Spessore lavorabile
Material tickness workable



R ≤ 1200 N/mm²

Applicazioni
Applications

Piastrelle
Mattoni durissimi
Tiles
Hard burnt brick

Ceramica
Ceramics

Pietre naturali
Marmo
Stones
Marble

Fibra di vetro
Laminati plastici
Fiberglass

Per frese *Fit hole cutters*	Ø	cod.	€ cad/each
	**Ø 16 ÷ 29**	210706519	**13,338**
	Ø 32 ÷ 114	210706546	**23,339**

Punta pilota *Pilot drill*	Ø	cod.	€ cad/each
 6,3 mm	**Ø 7x80**	21020112	**13,116**

Art. 03121002
€ 59,211



Art. 21135 Self
Disponibile su richiesta
On demand







Per tagliare: Ceramica, gres, granito, marmo, ardesia, fibre di vetro, ghisa, laminati e tutti i materiali abrasivi.

Cuts: Ceramic tile, laminates, composition board, marble, fiberglass, cast iron, and other abrasive materials.

ASSORTIMENTI FRESE A TAZZA
CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI
Carbide tipped professional multi-purpose hole saws

HSS-G DIN 338



Art. 21107301
€ 104,976

6 pcs
Art. 21105
Ø 16 - 20 - 22 - 25 - 32 - 35 mm (1x)

1 pcs
Art. 210706519
Ø 16÷29 N. 1 pc

1 pcs
Art. 210706546
Ø 32÷114 N. 1 pc

FRESA A TAZZA MULTIPLA PER EDILIZIA
IN CARBURO DI TUNGSTENO IN GRANI
Multiple sizes carbide grit hole saw

21108



Confezione
Packaging



ø *mm*	d	pcs.	cod.	€ cad/each
33-43-53-67-83	10	1	21108100	**53,309**

h = 60mm

Qualità standard
Standard quality

Applicazioni
Applications

Mattoni
brick



Art. 21107600
€ 74,808

10 pcs
Art. 21105
Ø 33 - 53 - 67 - 73 - 83 mm (1x)

Art. 23010060
€ 7,511



Art. 23005050
€ 7,015



SEGHE A TAZZA BIMETALLICHE AL COBALTO 8% AISI M42
A DENTATURA VARIABILE
HSS-CO 8% AISI M42 bimetal hole saws with variable teeth

21090 **HSS-CO 8%** AISI M42

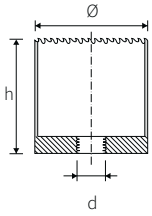
Lavori gravosi - per acciaio inox
Heavy works - for stainless steel



Confezione
Packaging



BIM.
HSS-CO 8% AISI M42



Ø	h
14÷17	67±1
19÷37	61±1
38÷210	54±1
220÷305	44±1



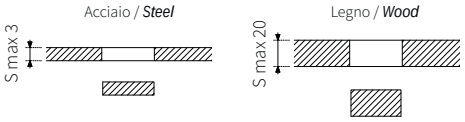
Variabile: nuovo disegno dei denti più performanti Z 4-6

Variable: new upgrade teeth design Z 4-6

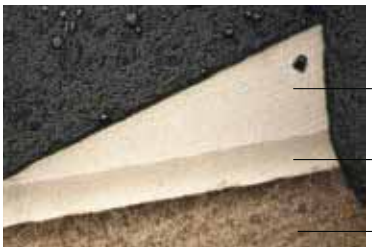
Ø	Ø pollici *inch*	d filetto *thread*	cod.	€ cad/each
14	9/16	UNF 1/2 x 20	2109001400	**10,340**
16	5/8		2109001600	**10,340**
17	11/16		2109001700	**10,340**
19	3/4		2109001900	**11,087**
20	-		2109002000	**11,087**
21	13/16		2109002100	**11,819**
22	7/8		2109002200	**11,819**
24	15/16		2109002400	**12,517**
25	1”		2109002500	**12,517**
27	1.1/16		2109002700	**13,616**
29	1.1/8		2109002900	**13,616**
30	1.3/16		2109003000	**14,443**
32	1.1/4	UNF 5/8 x 18	2109003200	**14,443**
33	1.5/16		2109003300	**14,938**
35	1.3/8		2109003500	**16,528**
37	1.7/16		2109003700	**16,935**
38	1.1/2		2109003800	**16,935**
40	1.9/16		2109004000	**17,372**
41	1.5/8		2109004100	**17,748**
43	1.11/16		2109004300	**17,748**
44	1.3/4		2109004400	**19,281**
45	-		2109004500	**19,281**
46	1.13/16		2109004600	**19,281**
48	1.7/8		2109004800	**19,704**
50	-		2109005000	**20,403**
51	2”		2109005100	**20,403**
52	2.1/16		2109005200	**22,605**
54	2.1/8		2109005400	**22,605**
57	2.1/4		2109005700	**23,385**
59	2.5/16		2109005900	**23,908**
60	2.3/8		2109006000	**23,908**
64	2.1/2		2109006400	**25,784**
65	2.9/16		2109006500	**25,784**
67	2.5/8		2109006700	**28,571**

Ø	Ø pollici *inch*	d filetto *thread*	cod.	€ cad/each
68	-		2109006800	**28,571**
70	2.3/4		2109007000	**28,571**
73	2.7/8		2109007300	**29,988**
75	-		2109007500	**31,162**
76	3”		2109007600	**31,162**
79	3.1/8		2109007900	**31,992**
83	3.1/4		2109008300	**33,330**
86	3.3/8		2109008600	**33,931**
89	3.1/2		2109008900	**37,061**
92	3.5/8		2109009200	**38,805**
95	3.3/4		2109009500	**38,805**
98	3.7/8		2109009800	**39,768**
100	-		2109010000	**39,767**
102	4”		2109010200	**39,767**
105	4.1/8		2109010500	**42,749**
108	4.1/4		2109010800	**46,270**
111	4.3/8		2109011100	**47,720**
114	4.1/2		2109011400	**52,659**
121	4.3/4		2109012100	**54,532**
127	5”		2109012700	**58,559**
133	5.1/4		2109013300	**63,034**
140	5.1/2		2109014000	**64,230**
146	5.3/4		2109014600	**72,039**
152	6”		2109015200	**69,178**
160	6.5/16		2109016000	**74,629**
168	6.5/8		2109016800	**78,669**
177	6.31/32		2109017700	**83,526**
200	7.7/8		2109020000	**90,256**
210	8.5/16		2109021000	**91,495**
220	8”.3/4		2109022000	**94,743**
233	9”. 1/8		2109023300	**124,503**
250	9”.7/8		2109025000	**131,859**
260	10”.1/4		2109026000	**153,615**
265	10”.1/2		2109026500	**168,903**
280	11”		2109028000	**210,981**
305	12”		2109030500	**477,750**

Spessore lavorabile
Material tickness workable



R ≤ 1000 N/mm²



Microdurezza verificata direttamente sul tagliente
Micro-hardness tested directly on the cutting tooth

Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Plastica *Plastic*
- Legno *Wood*
- Sandwich *Sandwich*
- Truciolato *Chipboard*

Seghe a tazza di altissima qualità, con taglienti in acciaio al Cobalto 8% per i lavori più gravosi; taglio professionale e profondo nell'acciaio inox, acciai duri, ghisa, alluminio, bronzo, ottone, legno duro e derivati, resine sintetiche, laminati plastici, gomma dura, cartongesso, etc.

High quality hole saws with HSS-CO 8% cutting edges for the toughest jobs; deep and professional cut in stainless steel, hard steel, cast iron, aluminium, bronze, brass, wood and its by-products, synthetic resins, laminated plastic, hard rubber, etc.

ALBERI PER SEGHE BIMETAL Ø 14÷30 mm
Fit hole saws Ø 14÷30 mm

Art. 210705514B



Art. 210705515B Q.C.



Art. 210705519B



Art. 210705518B

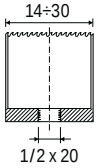


Art. 210705519 SDSB



SDS - PLUS

Per seghe *Fit hole saws*	d *mm*	cod.	€ cad/each
Ø 14 ÷ 30	Ø 6,35	210705514B	**10,014**
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515B	**11,911**
Ø 14 ÷ 30	HEX 8,5	210705519B	**11,911**
Ø 14 ÷ 30	HEX 11	210705518B	**13,338**
Ø 14 ÷ 30	SDS PLUS	210705519SDSB	**17,342**



ALBERI PER SEGHE BIMETAL Ø 32÷305 mm
Fit hole saws Ø 32÷305 mm

Art. 210705520B



Art. 210705521B Q.C.



Art. 210705546B



Art. 210705547B



Art. 210705548B Q.C.



Per seghe *Fit hole saws*	d *mm*	cod.	€ cad/each
Ø 32 ÷ 305	HEX 11	210705520B	**13,821**
Ø 32 ÷ 305	HEX 6,35 Q.C.	210705521B	**13,821**
Ø 32 ÷ 305	HEX 8,5	210705546B	**20,841**
Ø 32 ÷ 305	HEX 11	210705547B	**23,339**
Ø 32 ÷ 305	HEX 8,5 Q.C.	210705548B	**18,671**
Ø 32 ÷ 305	SDS PLUS	210705546SDSB	**30,339**
Ø 32 ÷ 305	SDS PLUS	210705549SDSB	**24,271**
Ø 32 ÷ 305	HEX 11	210705545B	**27,133**
Ø 32 ÷ 305	HEX 16	210705573B	**22,560**

Art. 210705546SDSB



SDS - PLUS

Art. 210705549SSDB



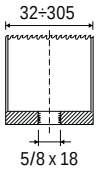
SDS - PLUS

Art. 210705545B



Art. 210705573B





Art. 21070203



Art. 21070204



Art. 21070202



Art. 21070300



Art. 21070302



Punta pilota *Pilot drill*	Per alberi *Fit arbors*	cod.	€ cad/each
Ø 6,35 x 115	5514B - 5520B 5545B - 5573B - 5518B	21070203	**5,254**
Ø 6,35 x 90	5515B - 5519B - 5519SDSB 5521B - 5546B - 5546SDSB 5547B - 5548B - 5549SDSB	21070202	**5,254**
Adattatore - montato su alberi 5514B - 5519B permette di portare frese da Ø 32 a Ø 305 *Arbor adapter - Allows 5514B - 5519B to be used with 1.1/4" through 6" hole saws*		21070300	**5,164**
Prolunga - HEX 11 L = 300 mm *12" extension - to be used with arbors 5518B - 5520B - 5547B - 5545B*		21070302	**24,174**

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS-CO 8%
HSS-CO 8% Bi-metal hole saws kits

KIT PER ELETTRICISTI
Electrician's kit



Art. 21013201K
€ 131,294

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519B - 5546B

1

Art. 21013202K
€ 113,880

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519B - 5546B

1



Art. 21013209K
€ 187,554

7 pcs
Ø 22÷68

Composizione
Description

Ø 22 - 29 - 35
38 - 44 - 51
68

5519B - 5546B

1

Art. 21013207K
€ 247,851

13 pcs
Ø 16÷60 (PG 9÷48)

Composizione
Description

Ø 16 - 19 - 20
21 - 22 - 25
29 - 32 - 38
48 - 51 - 54
60

5519B - 5546B

1

KIT PER IDRAULICI
Plumber's kit



Art. 21013204K
€ 120,568

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519B - 5546B

1

KIT INDUSTRIALE
Industrial kit



Art. 21013206K
€ 462,194

15 pcs
Ø 19÷114

Composizione
Description

Ø 19 - 22 - 29
35 - 38 - 44
51 - 57 - 64
76 - 83 - 92
95 - 105 - 114

5519B - 5546B

1

KIT PER INSTALLATORI
Journeyman's kit



Art. 21013205K
€ 186,216

9 pcs
Ø 19÷64

Composizione
Description

Ø 19 - 22 - 29
35 - 38 - 44
51 - 57 - 64

5519B - 5546B

1

1



Art. 21013215K
€ 255,158

11 pcs
Ø 19÷76

Composizione
Description

Ø 19 - 22 - 25 - 29
35 - 38 - 44 - 51
57 - 64 - 76

5519B - 5546B

1

Art. 21013216K
€ 257,635

12 pcs
Ø 16÷76

Composizione
Description

Ø 16 - 19 - 22
25 - 29 - 32
35 - 38 - 44
51 - 64 - 76

5519B - 5546B

1

Art. 21013211K
€ 243,825

11 pcs
Ø 20÷64

Composizione
Description

Ø 20 - 22 - 25 - 30
32 - 35 - 40 - 44
51 - 60 - 64

5519B - 5546B

1

Art. 21013212K
€ 274,643

11 pcs
Ø 19÷83

Composizione
Description

Ø 19 - 22 - 25
30 - 35 - 40
51 - 60 - 64
76 - 83

5519B - 5546B

1

21013504K

ESPOSITORE
Display



23x18x50 cm

Art. 21013504K
€ 991,376

49 pcs
Ø 16÷102

Composizione
Description

Ø 16 - 19 - 20 - 22 - 25 - 30 - 32 - 35 - 38 - 40 - 48 - 51 - 57 - 60 - 70 - 83 - 102 **2x**

5519B 14÷30 **4x**
5546B 32÷152 **6x**

21070202 **5x**

21013503K

ESPOSITORE
Display



Art. 21013503K
€ 502,389

24 pcs
Ø 16÷83

Composizione
Description

Ø 16 - 19 - 20 - 22 - 25 - 27 - 29 - 30 - 32 - 35 - 38 - 40 - 44 - 51 - 54 - 60 - 64 - 70 - 76 - 83 **1x**

5519B 14÷30 **2x**
5546B 32÷152 **2x**

ALBERO A CAMBIO RAPIDO PER SEGHE A TAZZA
Quick change arbor for bimetal hole saws

K-LOCK

BIMASTER

DENTE RINFORZATO
REINFORCED TOOTH

30% PIÙ VELOCE
30% FASTER

FORI PERFETTI
PERFECT HOLES



SISTEMA DI AGGANCIO ULTRA RAPIDO
ULTRA-FAST LOCKING SYSTEM

5X FASTER

Adattatori universali
1/2" X 20 UNF
5/8" X 18 UNF
Montabili sulle seghe di tutte le marche da 14 a 305 mm

Universal adaptors
1/2" X 20 UNF
5/8" X 18 UNF
Installable on all brands hole saws from 14 to 305 mm

Due punte Pilota
HSS-G
L 95 mm
L 105 mm
Incluse nella confezione

Two pilot twist drills
HSS-G
L 95 mm
L 105 mm
Included into the pack

Gambo con 3 pianetti antislittamento
per la massima tenuta nel mandrino

3 flat anti slip flats
for max grip into the chuck

21058 — HSS M3

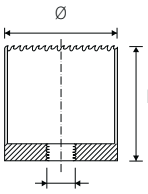
Alte prestazioni - dente rinforzato - sistema K-LOCK
High performance - reinforced tooth - K-LOCK system



Confezione
Packaging



BIM. HSS M3/1
Dente rinforzato



Ø	h
14÷17	56±1
18÷37	51±1
38÷133	44±1

Ø	Ø pollici *inch*	d filetto *thread*	cod.	€ cad/each
16	5/8	UNF 1/2 X 20	2105801600	9,263
17	1/16		2105801700	9,263
19	3/4		2105801900	9,928
20			2105802000	9,928
21	13/16		2105802100	10,583
22	7/8		2105802200	10,583
24	15/16		2105802400	11,210
25	1"		2105802500	11,210
27	1.1/16		2105802700	12,198
29	1.1/8		2105802900	12,198
30	1.3/16		2105803000	12,930
32	1.1/4	UNF 5/8 X 18	2105803200	12,930
33	1.5/16		2105803300	13,376
35	1.3/8		2105803500	14,801
38	1.1/2		2105803800	14,801
40	1.9/16		2105804000	15,181
41	1.5/8		2105804100	15,514
43	1.11/16		2105804300	15,514
44	1.3/4		2105804400	16,853
46	1.13/16		2105804600	16,853

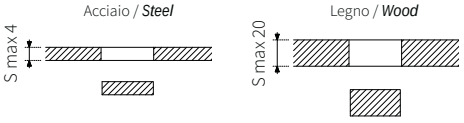
Ø	Ø pollici *inch*	d filetto *thread*	cod.	€ cad/each
48	1.7/8		2105804800	17,224
51	2"		2105805100	17,832
54	2.1/8		2105805400	19,760
57	2.1/4		2105805700	20,435
60	2.3/8		2105806000	20,891
64	2.1/2		2105806400	22,534
65	2.9/16		2105806500	22,534
67	2.5/8		2105806700	24,976
68			2105806800	24,976
70	2.2/4		2105807000	24,976
73	2.7/8		2105807300	26,211
76	3"		2105807600	27,959
79	3.1/8		2105807900	27,959
83	3.1/4		2105808300	29,127
89	3.1/2		2105808900	32,395
92	3.5/8		2105809200	33,915
98	3.7/8		2105809800	34,761
102	4"		2105810200	34,761
111	4.3/8		2105811100	41,705
121	4.3/4		2105812100	47,662
127	5"		2105812700	51,177
133	5.1/4		2105813300	53,001

R ≤ 850 N/mm²

Applicazioni
Applications

Acciaio / *Steel* · Metalli / *Metals* · Plastica / *Plastic* · Legno / *Wood* · Sandwich / *Sandwich* · Truciolato / *Chipboard*

Spessore lavorabile
Material tickness workable



K-LOCK, KIT ALBERO A CAMBIO RAPIDO PER SEGHE A TAZZA BIMETALLICHE
K-LOCK, QUICK CHANGE ARBOR KIT
FOR BIMETAL HOLE SAWS



Art. 210704050
€ 35,000

Composizione kit:
Description:

1 x albero K-Lock
1 x K-Lock arbor
1 x punta pilota L 95 mm
1 x pilot drill L 95 mm
1x punta pilota L 100 mm
1x pilot drill L 100 mm
1x adattatore 1/2" X 20 UNF
1x adaptor 1/2" X 20 UNF
1x adattatore 5/8" X 18 UNF
1x adaptor 5/8" X 18 UNF

ADATTATORI PER ALBERO K-LOCK
ADAPTERS FOR K-LOCK ARBOR



Art. 210704051
18,500

Adattatori:
Adapters:

2x 1/2" x 20 UNF
3x 5/8" x 18 UNF

UNIVERSALE - Si monta sulle seghe a tazza di tutte le marche. Per seghe da 14 a 305 mm
UNIVERSAL - It fits on hole saws of all brands. For hole saws from 14 to 305 mm

SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE
HSS bimetal hole saws

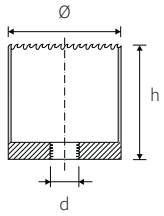
21060 HSS M3



Confezione
Packaging



BIM. - HSS M3/1

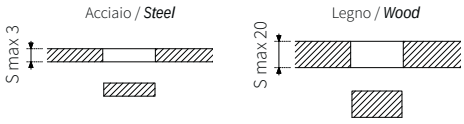


Ø	h
14÷17	57±1
19÷37	51±1
38÷305	44±1



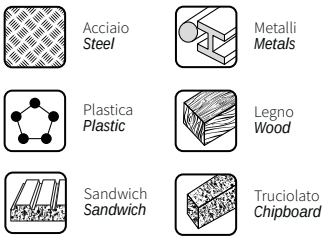
Variabile Z 4-6
Variable Z 4-6

Spessore lavorabile
Material tickness workable



R ≤ 800 N/mm²

Applicazioni
Applications



Ø	Ø pollici *inch*	d filetto *thread*	cod.	€ cad/each
14	9/16	UNF 1/2 x 20	2106001400	**8,475**
16	5/8		2106001600	**8,475**
17	11/16		2106001700	**8,475**
19	3/4		2106001900	**9,088**
20			2106002000	**9,088**
21	13/16		2106002100	**9,688**
22	7/8		2106002200	**9,688**
24	15/16		2106002400	**10,260**
25	1”		2106002500	**10,260**
27	1.1/16		2106002700	**11,161**
29	1.1/8		2106002900	**11,161**
30	1.3/16		2106003000	**11,838**
32	1.1/4	UNF 5/8 x 18	2106003200	**11,838**
33	1.5/16		2106003300	**12,244**
35	1.3/8		2106003500	**13,548**
37	1.7/16		2106003700	**13,548**
38	1.1/2		2106003800	**13,548**
40	1.9/16		2106004000	**13,898**
41	1.5/8		2106004100	**14,199**
43	1.11/16		2106004300	**14,199**
44	1.3/4		2106004400	**15,425**
45	-		2106004500	**15,425**
46	1.13/16		2106004600	**15,425**
48	1.7/8		2106004800	**15,763**
50	-		2106005000	**16,323**
51	2”		2106005100	**16,323**
52	2.1/16		2106005200	**18,084**
54	2.1/8		2106005400	**18,084**
55	-		2106005500	**18,084**
56	-		2106005600	**18,708**
57	2.1/4		2106005700	**18,708**
59	2.5/16		2106005900	**19,126**
60	2.3/8		2106006000	**19,126**
62	-		2106006200	**20,627**
64	2.1/2		2106006400	**20,627**

Ø	Ø pollici *inch*	d filetto *thread*	cod.	€ cad/each
65	2.9/16		2106006500	**20,627**
67	2.5/8		2106006700	**22,857**
68	-		2106006800	**22,857**
70	2.3/4		2106007000	**22,857**
73	2.7/8		2106007300	**23,990**
75	-		2106007500	**24,929**
76	3”		2106007600	**24,929**
79	3.1/8		2106007900	**25,594**
83	3.1/4		2106008300	**26,664**
86	3.3/8		2106008600	**27,145**
89	3.1/2		2106008900	**29,649**
92	3.5/8		2106009200	**31,044**
95	3.3/4		2106009500	**31,044**
98	3.7/8		2106009800	**31,814**
100	-		2106010000	**31,814**
102	4”		2106010200	**31,814**
105	4.1/8		2106010500	**34,199**
108	4.1/4		2106010800	**37,016**
111	4.3/8		2106011100	**38,176**
114	4.1/2		2106011400	**42,127**
121	4.3/4		2106012100	**43,625**
127	5”		2106012700	**46,847**
133	5.1/4		2106013300	**48,515**
140	5.1/2		2106014000	**51,384**
146	5.3/4”		2106014600	**53,978**
152	6”		2106015200	**59,088**
160	6.5/16		2106016000	**59,703**
168	6.5/8		2106016800	**62,935**
177	6.31/32		2106017700	**66,821**
200	7.7/8		2106020000	**72,205**
210	8.5/16		2106021000	**73,196**
220	8.3/4		2106022000	**75,794**
233	9.1/8		2106023300	**99,602**
250	9.7/8		2106025000	**105,487**
260	10.1/4		2106026000	**122,892**
265	10.1/2		2106026500	**135,122**
280	11”		2106028000	**168,785**
305	12”		2106030500	**382,200**

Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

Art. 21068 Self
Disponibile su richiesta
On demand

ALBERI PER SEGHE A TAZZA BIMETAL
(INTERCAMBIABILI CON QUALSIASI ALTRA MARCA)
Arbors for bimetal hole saws

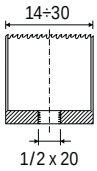
ALBERI PER SEGHE BIMETAL Ø 14÷30 mm
Fit hole saws Ø 14÷30 mm

Art. 210705514 | Art. 210705515 Q.C. | Art. 210705519 | Art. 210705518 | Art. 210705519 SDS



SDS - PLUS

Per seghe *Fit hole saws*	d *mm*	cod.	€ cad/each
Ø 14 ÷ 30	Ø 6,35	210705514	**10,014**
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515	**10,712**
Ø 14 ÷ 30	HEX 8,5	210705519	**10,712**
Ø 14 ÷ 30	HEX 11	210705518	**13,338**
Ø 14 ÷ 30	SDS PLUS	210705519SDS	**17,342**



ALBERI PER SEGHE BIMETAL Ø 32÷305 mm
Fit hole saws Ø 32÷305 mm

Art. 210705520 | Art. 210705521 Q.C. | Art. 210705546 | Art. 210705547 | Art. 210705548 Q.C.

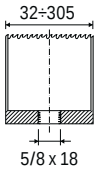


Art. 210705546SDS | Art. 210705549SDS | Art. 210705546 | Art. 210705545



SDS - PLUS | SDS - PLUS

Per seghe *Fit hole saws*	d *mm*	cod.	€ cad/each
Ø 32 ÷ 305	HEX 11	210705520	**13,821**
Ø 32 ÷ 305	HEX 6,35 Q.C.	210705521	**13,821**
Ø 32 ÷ 305	HEX 8,5	210705546	**18,862**
Ø 32 ÷ 305	HEX 11	210705547	**23,339**
Ø 32 ÷ 305	HEX 8,5 Q.C.	210705548	**18,671**
Ø 32 ÷ 305	SDS PLUS	210705546SDS	**30,339**
Ø 32 ÷ 305	SDS PLUS	210705549SDS	**24,271**
Ø 32 ÷ 305	HEX 11	210705545	**24,408**
Ø 32 ÷ 305	HEX 16	210705573	**21,435**



Art. 21070200 | Art. 21070202 | Art. 21070201 | Art. 21070300 | Art. 21070302



Punta pilota *Pilot drill*	Per alberi *Fit arbors*	cod.	€ cad/each
Ø 6,35 x 105	5514 - 5520 5545 - 5573 - 5518	21070200	**5,254**
Ø 6,35 x 90	5519B 5519SDSB	21070202	**5,254**
Ø 6,35 x 80	5515 - 5519 - 5519SDS 5521 - 5546 - 5546SDS 5547 - 5548 - 5549SDS	21070201	**5,254**
Adattatore - montato su alberi 5514 - 5519 permette di portare frese da Ø 32 a Ø 210 *Arbor adapter - Allows 5514 - 5519 to be used with 1.1/4" through 6" hole saws*		21070300	**5,164**
Prolunga - HEX 11 L = 300 mm *12" extension - to be used with arbors 5518 - 5520 - 5547 - 5545*		21070302	**24,174**

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS IN VALIGETTE DI PLASTICA
HSS Bi-metal hole saws kits in plastic cases

KIT PER ELETTRICISTI
Electrician's kit



Art. 21080201K
€ 115,637

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519 - 5546

1

Art. 21080202K
€ 98,712

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519 - 5546

1



Art. 21080207K
€ 186,146

13 pcs
Ø 16÷60 (PG 9÷48)

Composizione
Description

Ø 16 - 19 - 20
21 - 22 - 25
29 - 32 - 38
48 - 51 - 54
60

5519 - 5546

1

KIT PER IDRAULICI
Plumber's kit



Art. 21080204K
€ 104,358

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519 - 5546

1

KIT INDUSTRIALE
Industrial kit



Art. 21080206K
€ 369,477

15 pcs
Ø 19÷114

Composizione
Description

Ø 19 - 22 - 29
35 - 38 - 44
51 - 57 - 64
76 - 83 - 92
95 - 105 - 114

5519 - 5546

1

KIT PER INSTALLATORI
Journeyman's kit



Art. 21080205K
€ 162,168

9 pcs
Ø 19÷64

Composizione
Description

Ø 19 - 22 - 29
35 - 38 - 44
51 - 57 - 64

5519 - 5546

1

1



Art. 21080211K
€ 179,095

11 pcs
Ø 20÷64

Composizione
Description

Ø 20 - 22 - 25 - 30
32 - 35 - 40 - 44
51 - 60 - 64

5519 - 5546

1

Art. 21080212K
€ 239,734

11 pcs
Ø 19÷83

Composizione
Description

Ø 19 - 22 - 25
30 - 35 - 40
51 - 60 - 64
76 - 83

5519 - 5546

1

21080504K

ESPOSITORE
Display



23x18x50 cm

Art. 21080504K
€ 726,037

49 pcs
Ø 16÷102

Composizione
Description

Ø 16 - 19 - 20 - 22 - 25 - 30 - 32 - 35 - 38 - 40 - 48 - 51 - 57 - 60 - 70 - 83 - 102		2x
5519	14÷30	4x
5546	32÷210	6x
21070201		5x

21080503K

ESPOSITORE
Display



Art. 21080503K
€ 363,859

24 pcs
Ø 16÷83

Composizione
Description

Ø 16 - 19 - 20 - 22 - 25 - 27 - 29 - 30 - 32 - 35 - 38 - 40 - 44 - 51 - 54 - 60 - 64 - 70 - 76 - 83		1x
5519	14÷30	2x
5546	32÷210	2x

SEGHE A TAZZA BIMETALLICHE HSS
A DENTATURA VARIABILE AD ALBERO FISSO
One piece HSS bimetal hole saws with fixed arbor

21061 | **HSS M3**

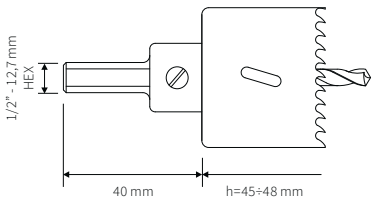
Albero fisso
Fixed arbor



Confezione
Packaging

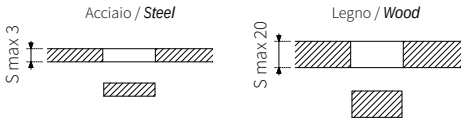


BIM. - HSS M3/1



Variabile Z 4-6
Variable Z 4-6

Spessore lavorabile
Material tickness workable



R ≤ 800 N/mm²

Applicazioni
Applications

- Acciaio / *Steel*
- Plastica / *Plastic*
- Legno / *Wood*
- Multistrato / *Multilayer*
- Sandwich / *Sandwich*
- Truciolato / *Chipboard*

Ø	Ø *pollici / inch*	cod.	€ cad/each
16	5/8	2106101600	**13,143**
19	3/4	2106101900	**14,140**
21	13/16	2106102100	**14,844**
22	7/8	2106102200	**15,267**
24	15/16	2106102400	**15,690**
25	1”	2106102500	**16,252**
27	1.1/16	2106102700	**16,686**
29	1.1/8	2106102900	**17,966**
30	1.3/16	2106103000	**18,388**
32	1.1/4	2106103200	**18,952**
33	1.5/16	2106103300	**19,234**
35	1.3/8	2106103500	**19,655**
38	1.1/2	2106103800	**20,499**
40	1.9/16	2106104000	**20,793**
41	1.5/8	2106104100	**21,076**
44	1.3/4	2106104400	**21,778**
48	1.7/8	2106104800	**22,905**
51	2”	2106105100	**23,762**
54	2.1/8	2106105400	**24,761**
57	2.1/4	2106105700	**25,182**
60	2.3/8	2106106000	**26,450**
64	2.1/2	2106106400	**27,588**
67	2.5/8	2106106700	**29,137**
70	2.3/4	2106107000	**30,275**
76	3”	2106107600	**32,258**
79	3.1/8	2106107900	**33,102**
83	3.1/4	2106108300	**34,383**
89	3.1/2	2106108900	**37,070**
92	3.5/8	2106109200	**37,774**
95	3.3/4	2106109500	**38,912**
102	4”	2106110200	**40,895**

Punta pilota *Pilot drill*	Ø	cod.	€ cad/each
	**Ø 6,35 x 80**	21070201	**5,254**

Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso.
Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

21067

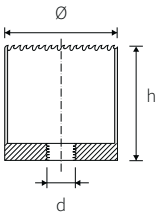
HSS M3



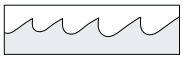
Confezione
Packaging



BIM. - HSS M3/1
Finitura nera
Black finish

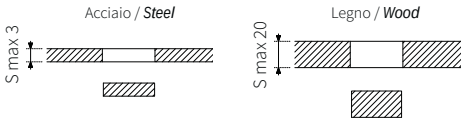


Ø	h
14÷17	57±1
19÷37	51±1
38÷210	44±1



Variabile Z 4-6
Variable Z 4-6

Spessore lavorabile
Material tickness workable



R ≤ 750 N/mm²

Applicazioni
Applications


Acciaio
Steel


Metalli
Metals


Plastica
Plastic


Legno
Wood


Sandwich
Sandwich


Truciolato
Chipboard

Ø	Ø *inch*	d *filetto / thread*	cod.	€ cad/each
14	9/16	UNF 1/2 x 20	2106701400	**6,780**
16	5/8		2106701600	**6,780**
17	11/16		2106701700	**6,780**
19	3/4		2106701900	**7,270**
20			2106702000	**7,270**
21	13/16		2106702100	**7,750**
22	7/8		2106702200	**7,750**
24	15/16		2106702400	**8,208**
25	1”		2106702500	**8,208**
27	1.1/16		2106702700	**8,929**
29	1.1/8		2106702900	**8,929**
30	1.3/16		2106703000	**9,471**
32	1.1/4	UNF 5/8 x 18	2106703200	**9,471**
33	1.5/16		2106703300	**9,795**
35	1.3/8		2106703500	**10,838**
37	1.7/16		2106703700	**10,838**
38	1.1/2		2106703800	**10,838**
40	1.9/16		2106704000	**11,118**
41	1.5/8		2106704100	**11,359**
43	1.11/16		2106704300	**11,359**
44	1.3/4		2106704400	**12,340**
45	-		2106704500	**12,340**
46	1.13/16		2106704600	**12,340**
48	1.7/8		2106704800	**12,610**
50	-		2106705000	**13,058**
51	2”		2106705100	**13,058**
52	2.1/16		2106705200	**14,467**
54	2.1/8		2106705400	**14,467**
55	-		2106705500	**14,467**
56	-		2106705600	**14,967**
57	2.1/4		2106705700	**14,967**
59	2.5/16		2106705900	**15,301**

Ø	Ø *inch*	d *filetto / thread*	cod.	€ cad/each
60	2.3/8		2106706000	**15,301**
62	-		2106706200	**16,502**
64	2.1/2		2106706400	**16,502**
65	2.9/16		2106706500	**16,502**
67	2.5/8		2106706700	**18,286**
68	-		2106706800	**18,286**
70	2.3/4		2106707000	**18,286**
73	2.7/8		2106707300	**19,192**
75	-		2106707500	**19,943**
76	3”		2106707600	**19,943**
79	3.1/8		2106707900	**20,475**
83	3.1/4		2106708300	**21,331**
86	3.3/8		2106708600	**21,716**
89	3.1/2		2106708900	**23,719**
92	3.5/8		2106709200	**24,835**
95	3.3/4		2106709500	**24,835**
98	3.7/8		2106709800	**25,451**
100	-		2106710000	**25,451**
102	4”		2106710200	**25,451**
105	4.1/8		2106710500	**27,359**
108	4.1/4		2106710800	**29,613**
111	4.3/8		2106711100	**30,541**
114	4.1/2		2106711400	**33,701**
121	4.3/4		2106712100	**34,900**
127	5”		2106712700	**37,478**
133	5.1/4		2106713300	**38,812**
140	5.1/2		2106714000	**41,108**
146	5.3/4”		2106714600	**43,183**
152	6”		2106715200	**47,270**
160	6.5/16		2106716000	**47,762**
168	6.5/8		2106716800	**50,348**
177	6.31/32		2106717700	**53,457**
190	7.1/2		2106719000	**54,783**
200	7.7/8		2106720000	**57,125**
210	8.5/16		2106721000	**58,557**

Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso.
Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

ALBERI PER SEGHE A TAZZA BIMETAL
(INTERCAMBIABILI CON QUALSIASI ALTRA MARCA)
Arbors for bimetal hole saws

ALBERI PER SEGHE BIMETAL Ø 14÷30 mm
Fit hole saws Ø 14÷30 mm

Art. 210705514



Art. 210705515 Q.C.



Art. 210705519



Art. 210705518

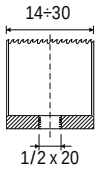


Art. 210705519 SDS



SDS - PLUS

Per seghe *Fit hole saws*	d *mm*	cod.	€ cad/each
Ø 14 ÷ 30	Ø 6,35	210705514	**10,014**
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515	**10,712**
Ø 14 ÷ 30	HEX 8,5	210705519	**10,712**
Ø 14 ÷ 30	HEX 11	210705518	**13,338**
Ø 14 ÷ 30	SDS PLUS	210705519SDS	**17,342**



ALBERI PER SEGHE BIMETAL Ø 32÷305 mm
Fit hole saws Ø 32÷305 mm

Art. 210705520



Art. 210705521 Q.C.



Art. 210705546



Art. 210705547



Art. 210705548 Q.C.



Art. 210705546SDS



Art. 210705549SDS



SDS - PLUS SDS - PLUS

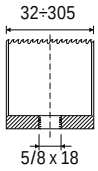
Art. 210705546



Art. 210705545



Per seghe *Fit hole saws*	d *mm*	cod.	€ cad/each
Ø 32 ÷ 305	HEX 11	210705520	**13,821**
Ø 32 ÷ 305	HEX 6,35 Q.C.	210705521	**13,821**
Ø 32 ÷ 305	HEX 8,5	210705546	**18,862**
Ø 32 ÷ 305	HEX 11	210705547	**23,339**
Ø 32 ÷ 305	HEX 8,5 Q.C.	210705548	**18,671**
Ø 32 ÷ 305	SDS PLUS	210705546SDS	**30,339**
Ø 32 ÷ 305	SDS PLUS	210705549SDS	**24,271**
Ø 32 ÷ 305	HEX 11	210705545	**24,408**
Ø 32 ÷ 305	HEX 16	210705573	**21,435**



Art. 21070200



Art. 21070202



Art. 21070201



Art. 21070300



Art. 21070302



Punta pilota *Pilot drill*	Per alberi *Fit arbors*	cod.	€ cad/each
Ø 6,35 x 105	5514 - 5520 5545 - 5573 - 5518	21070200	**5,254**
Ø 6,35 x 90	5519B 5519SDSB	21070202	**5,254**
Ø 6,35 x 80	5515 - 5519 - 5519SDS 5521 - 5546 - 5546SDS 5547 - 5548 - 5549SDS	21070201	**5,254**
Adattatore - montato su alberi 5514 - 5519 permette di portare frese da Ø 32 a Ø 210 *Arbor adapter - Allows 5514 - 5519 to be used with 1.1/4" through 6" hole saws*		21070300	**5,164**
Prolunga - HEX 11 L = 300 mm *12" extension - to be used with arbors 5518 - 5520 - 5547 - 5545*		21070302	**24,174**

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS IN VALIGETTE DI PLASTICA

HSS Bi-metal hole saws kits in plastic cases

KIT PER ELETTRICISTI
Electrician's kit



Art. 21080201E
€ 92,509

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519 - 5546

1

Art. 21080202E
€ 78,970

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519 - 5546

1



Art. 21080207E
€ 148,917

13 pcs
Ø 16÷60 (PG 9÷48)

Composizione
Description

Ø 16 - 19 - 20
21 - 22 - 25
29 - 32 - 38
48 - 51 - 54
60

5519 - 5546

1

21070201

KIT PER IDRAULICI
Plumber's kit



Art. 21080204E
€ 83,487

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519 - 5546

1

KIT PER INSTALLATORI
Journeyman's kit



Art. 21080211E
€ 143,276

11 pcs
Ø 20÷64

Composizione
Description

Ø 20 - 22 - 25 - 30
32 - 35 - 40 - 44
51 - 60 - 64

5519 - 5546

1

Art. 21080212E
€ 191,787

11 pcs
Ø 19÷83

Composizione
Description

Ø 19 - 22 - 25
30 - 35 - 40
51 - 60 - 64
76 - 83

5519 - 5546

1

ESPOSITORI
Display



23x18x50 cm

Art. 21080504E
€ 580,829

49 pcs
Ø 16÷102

Composizione
Description

Ø 16 - 19 - 20 - 22 - 25 - 30 - 32 - 35 - 38 - 40 - 48 - 51 - 57 - 60 - 70 - 83 - 102 **2x**

5519 14÷30 **4x**
5546 32÷210 **6x**

21070201 **5x**



Art. 21080503E
€ 291,087

24 pcs
Ø 16÷83

Composizione
Description

Ø 16 - 19 - 20 - 22 - 25 - 27 - 29 - 30 - 32 - 35 - 38 - 40 - 44 - 51 - 54 - 60 - 64 - 70 - 76 - 83 **1x**

5519 14÷30 **2x**
5546 32÷210 **2x**

SEGHE A TAZZA BIMETALLICHE HSS-CO 8% DI NUOVA GENERAZIONE "XTREME"

Ultimate bimetal hole saws

21073 **HSS-CO 8%** AISI M42

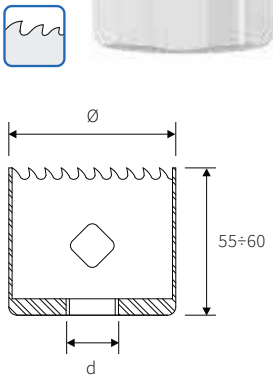
Alte prestazioni - dente rinforzato

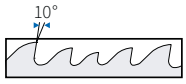
High performance - reinforced tooth



Confezione
Packaging

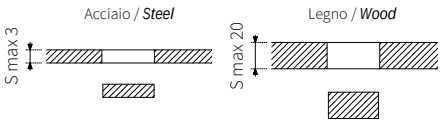






Z 4÷6 - BIM. AISI M42 - Co8%

Spessore lavorabile
Material tickness workable



R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Plastica
Plastic



Legno
Wood



Sandwich
Sandwich



Truciolato
Chipboard



Fondo rinforzato
Solid steel plated

Larghe aperture per un'agevole rimozione del disco
Large openings provide for easy plug ejection

Ø	Ø pollici / inch	d filetto / thread	pcs.	cod.	€ cad/each
14	9/16	UNF 1/2 x 20	1	2107301400	**13,648**
16	5/8		1	2107301600	**13,648**
17	11/16		1	2107301700	**13,648**
19	3/4		1	2107301900	**14,635**
20	-		1	2107302000	**14,635**
21	13/16		1	2107302100	**15,602**
22	7/8		1	2107302200	**15,602**
24	15/16		1	2107302400	**16,523**
25	1"		1	2107302500	**16,522**
27	1.1/16		1	2107302700	**17,973**
29	1.1/8		1	2107302900	**17,974**
30	1.3/16		1	2107303000	**19,064**
32	1.1/4	UNF 5/8 x 18	1	2107303200	**19,064**
33	1.5/16		1	2107303300	**19,718**
35	1.3/8		1	2107303500	**20,000**
37	1.7/16		1	2107303700	**20,491**
38	1.1/2		1	2107303800	**20,491**
40	1.9/16		1	2107304000	**21,021**
41	1.5/8		1	2107304100	**21,477**
43	1.11/16		1	2107304300	**21,476**
44	1.3/4		1	2107304400	**23,330**
45	-		1	2107304500	**23,330**
46	1.13/16		1	2107304600	**23,330**
48	1.7/8		1	2107304800	**23,841**
50	-		1	2107305000	**24,688**
51	2"		1	2107305100	**24,688**
52	2.1/16		1	2107305200	**27,352**
54	2.1/8		1	2107305400	**27,352**
55	-		1	2107305500	**22,863**
57	2.1/4		1	2107305700	**27,010**
59	2.5/16		1	2107305900	**27,613**
60	2.3/8		1	2107306000	**27,613**
64	2.1/2		1	2107306400	**29,780**
65	2.9/16		1	2107306500	**29,780**
67	2.5/8		1	2107306700	**33,000**
68	-		1	2107306800	**33,000**
70	2.3/4		1	2107307000	**33,000**
73	2.7/8		1	2107307300	**34,636**
75	-		1	2107307500	**35,991**
76	3"		1	2107307600	**35,991**
79	3.1/8		1	2107307900	**36,951**
83	3.1/4		1	2107308300	**38,496**
86	3.3/8		1	2107308600	**39,191**
89	3.1/2		1	2107308900	**42,806**
92	3.5/8		1	2107309200	**44,819**
95	3.3/4		1	2107309500	**44,819**
98	3.7/8		1	2107309800	**45,932**
100	-		1	2107310000	**45,932**
102	4"		1	2107310200	**45,932**
105	4.1/8		1	2107310500	**49,375**
108	4.1/4		1	2107310800	**53,442**
111	4.3/8		1	2107311100	**55,117**
114	4.1/2		1	2107311400	**60,821**
121	4.3/4		1	2107312100	**62,983**
127	5"		1	2107312700	**67,635**
140	5.1/2		1	2107314000	**74,185**
146	-		1	2107314600	**77,931**
152	6"		1	2107315200	**85,309**

	Ø	d mm	cod.	€ cad/each
	**Ø 14 ÷ 30**	HEX 6,35 Q.C.	210705515B	**11,911**
	**Ø 32 ÷ 152**	HEX 8,5 Q.C.	210705548B	**18,671**
		6,35 x 90	21070202	**5,254**

SEGHE A TAZZA BIMETALLICHE HSS-CO 8%
A DENTATURA VARIABILE “BLU - MOL”
HSS - Co 8% bimetal hole saws

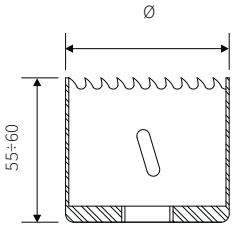
21065 **HSS-CO 8%** AISI M42

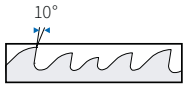


Confezione
Packaging



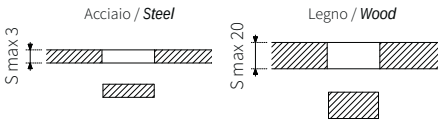






Z 4÷6 - BIM. AISI M42 - Co8%

Spessore lavorabile
Material tickness workable



R ≤ 1000 N/mm²

Applicazioni
Applications



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Plastica
Plastic


Legno
Wood


Sandwich
Sandwich


Truciolato
Chipboard

ø	ø *pollici / inch*	pcs.	cod.	€ cad/each
14	9/16	1	2106501400	**12,407**
16	5/8	1	2106501600	**12,407**
17	11/16	1	2106501700	**12,407**
19	3/4	1	2106501900	**13,305**
20	–	1	2106502000	**13,305**
21	13/16	1	2106502100	**14,183**
22	7/8	1	2106502200	**14,183**
24	15/16	1	2106502400	**15,021**
25	1”	1	2106502500	**15,021**
27	1.1/16	1	2106502700	**16,340**
29	1.1/8	1	2106502900	**16,339**
30	1.3/16	1	2106503000	**17,331**
32	1.1/4	1	2106503200	**17,331**
33	1.5/16	1	2106503300	**17,926**
35	1.3/8	1	2106503500	**18,181**
37	1.7/16	1	2106503700	**18,628**
38	1.1/2	1	2106503800	**18,629**
40	1.9/16	1	2106504000	**19,110**
41	1.5/8	1	2106504100	**19,524**
43	1.11/16	1	2106504300	**19,523**
44	1.3/4	1	2106504400	**21,210**
45	–	1	2106504500	**21,210**
46	1.13/16	1	2106504600	**21,209**
48	1.7/8	1	2106504800	**21,674**
50	–	1	2106505000	**22,444**
51	2”	1	2106505100	**22,444**
52	2.1/16	1	2106505200	**24,866**
54	2.1/8	1	2106505400	**24,866**
55	–	1	2106505500	**24,137**
57	2.1/4	1	2106505700	**25,724**
59	2.5/16	1	2106505900	**26,299**
60	2.3/8	1	2106506000	**26,298**
64	2.1/2	1	2106506400	**28,362**
65	2.9/16	1	2106506500	**28,362**
67	2.5/8	1	2106506700	**31,428**
68	–	1	2106506800	**31,428**
70	2.3/4	1	2106507000	**31,428**
73	2.7/8	1	2106507300	**32,986**
75	–	1	2106507500	**34,277**
76	3”	1	2106507600	**34,278**
79	3.1/8	1	2106507900	**35,192**
83	3.1/4	1	2106508300	**36,663**
86	3.3/8	1	2106508600	**37,324**
89	3.1/2	1	2106508900	**40,767**
92	3.5/8	1	2106509200	**42,685**
95	3.3/4	1	2106509500	**42,686**
98	3.7/8	1	2106509800	**43,744**
100	–	1	2106510000	**43,744**
102	4”	1	2106510200	**43,744**
105	4.1/8	1	2106510500	**47,024**
108	4.1/4	1	2106510800	**50,897**
111	4.3/8	1	2106511100	**52,492**
114	4.1/2	1	2106511400	**57,925**
121	4.3/4	1	2106512100	**59,984**
127	5”	1	2106512700	**64,414**
140	5.1/2	1	2106514000	**70,653**
146	5.3/4	1	2106514600	**74,219**
152	6”	1	2106515200	**81,246**

Seghe bimetalliche HSS - Co 8% a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso.
Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

ALBERI PER SEGHE A TAZZA BIMETAL
(INTERCAMBIABILI CON QUALSIASI ALTRA MARCA)
Arbors for bimetal hole saws

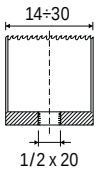
ALBERI PER SEGHE BIMETAL Ø 14÷30 MM
Fit hole saws Ø 14÷30

Art. 210705514B | Art. 210705515B Q.C. | Art. 210705519B | Art. 210705518B | Art. 210705519 SDSB



SDS - PLUS

Per seghe *Fit hole saws*	d *mm*	cod.	€ cad/each
Ø 14 ÷ 30	Ø 6,35	210705514B	**10,014**
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515B	**11,911**
Ø 14 ÷ 30	HEX 8,5	210705519B	**11,911**
Ø 14 ÷ 30	HEX 11	210705518B	**13,338**
Ø 14 ÷ 30	SDS PLUS	210705519SDSB	**17,342**



ALBERI PER SEGHE BIMETAL Ø 32÷152 MM
Fit hole saws Ø 32÷210

Art. 210705520B | Art. 210705521B Q.C. | Art. 210705546B | Art. 210705547B | Art. 210705548B Q.C.

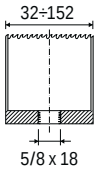


Art. 210705546SDSB | Art. 210705549SDSB | Art. 210705545B | Art. 210705573B



SDS - PLUS | SDS - PLUS

Per seghe *Fit hole saws*	d *mm*	cod.	€ cad/each
Ø 32 ÷ 152	HEX 11	210705520B	**13,821**
Ø 32 ÷ 152	HEX 6,35 Q.C.	210705521B	**13,821**
Ø 32 ÷ 152	HEX 8,5	210705546B	**20,841**
Ø 32 ÷ 152	HEX 11	210705547B	**23,339**
Ø 32 ÷ 152	HEX 8,5 Q.C.	210705548B	**18,671**
Ø 32 ÷ 152	SDS PLUS	210705546SDSB	**30,339**
Ø 32 ÷ 152	SDS PLUS	210705549SDSB	**24,271**
Ø 32 ÷ 152	HEX 11	210705545B	**27,133**
Ø 32 ÷ 152	HEX 16	210705573B	**22,560**



Art. 21070203 | Art. 21070202 | Art. 21070300 | Art. 21070302



Punta pilota *Pilot drill*	Per alberi *Fit arbors*	cod.	€ cad/each
Ø 6,35 x 115	5514B - 5520B 5545B - 5573B - 5518B	21070203	**5,254**
Ø 6,35 x 90	5515B - 5519B - 5519SDSB 5521B - 5546B - 5546SDSB 5547B - 5548B - 5549SDSB	21070202	**5,254**
Adattatore - montato su alberi 5514B - 5519B permette di portare frese da Ø 32 a Ø 152 *Arbor adapter - Allows 5514B - 5519B to be used with 1.1/4" through 6" hole saws*		21070300	**5,164**
Prolunga - HEX 11 L = 300 mm *12" extension - to be used with arbors 5518B - 5520B - 5547B - 5545B*		21070302	**24,174**

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE “BLU-MOL” IN VALIGETTE DI PLASTICA

Bi-metal hole saws kits in plastic cases

KIT PER ELETTRICISTI
Eletrician's kit



Art. 21080201
€ 185,681

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519B - 5546B

1

KIT METRICO PER ELETTRICISTI
Metric electrician’s Kit



Art. 21080202
€ 170,203

6 pcs
Ø 16÷51

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519B - 5546B

1

KIT PER IDRAULICI
Plumber’s Kit



Art. 21080204
€ 185,681

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519B - 5546B

1

KIT PER INSTALLATORI
Journeyman’s Kit



Art. 21080205
€ 247,579

9 pcs
Ø 19÷64

Composizione
Description

Ø 19 - 22 - 29
35 - 38 - 44
51 - 57 - 64

5519B - 5546B

1

1

SEGHE A TAZZA BIMETALLICHE HSS-CO 8%
A PASSO FISSO PER LAMIERE SOTTILI
AISI M42 - Co8% constant pitch Bimetal hole saws for metal sheets

21069 **HSS-CO 8%** AISI M42

Speciale lamiere sottili
Special for thin sheets



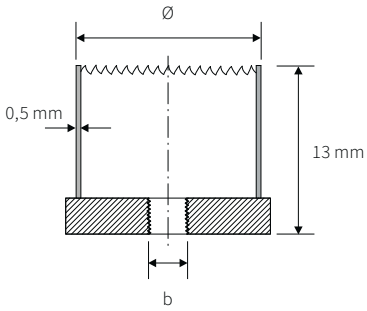
Confezione
Packaging



Ø	Ø *pollici / inch*	Attacco *Shank*	pcs.	cod.	€ cad/each
16	5/8	1/4”	1	210691600	**35,022**
19	3/4	1/4”	1	210691900	**35,134**
20	-	1/4”	1	210692000	**35,227**
22	7/8	1/4”	1	210692200	**35,376**
25	1”	1/4”	1	210692500	**34,242**
27	1.1/16	1/4”	1	210692700	**35,581**
29	1.1/8	1/4”	1	210692900	**36,081**
30	1.3/16	1/4”	1	210693000	**35,678**
32	1.1/4	1/4”	1	210693200	**36,836**
35	1.3/8	1/4”	1	210693500	**39,203**
38	1.1/2	1/4”	1	210693800	**40,327**

Speciali per trapani a batteria e avvitatori a impulsi
Special for cordless power drills and impact power tools

BIM. AISI M42 Co8%





Z = 8

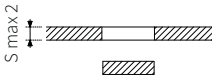
Speciale disegno del dente: taglio veloce e pulito
Advanced tooth design: smooth and fast cutting



Il potere della lama fine: Minimizza il consumo delle batterie e produce meno trucioli per un taglio più veloce e sicuro
The power of the thin blade: Lightweight blades maximize the use of chargeable impact drivers and drills by using a reduced motor and operation load. Sheet Metal Hole Saws produce fewer chips for easier and safer drilling

Spessore lavorabile
Material tickness workable

Acciaio / *Steel*



R ≤ 1000 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Leghe leggere *Light alloys*
- Alluminio *Aluminum*
- Plastica *Plastic*





Fermo di sicurezza
Safety collar stop

Il sottile spessore della lama e la dentatura costante in AISI M42 le rendono particolarmente adatte al taglio di lamiere sottili di acciaio inox, acciai legati e non, alluminio, metalli non ferrosi, plastica.

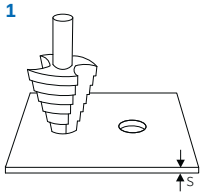
The thin blade thickness and the AISI M42 constant pitch make these saws special for cutting into thin stainless steel sheet, alloyed steel and non - alloyed steel, non - ferrous metals and plastic.

PUNZONI STANDARD
CON CUSCINETTO
Standard ball bearing punches

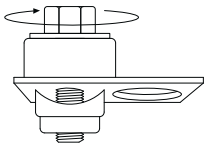
26070



1



2



Ø	Pg/M	S	cod.	€ cad/each
10		1,5	2607001000	**81,971**
11		1,5	2607001100	**81,971**
12		1,5	2607001200	**81,971**
12,5	Pg 7 M 12x1,5	1,5	2607001250	**81,971**
13		1,5	2607001300	**81,971**
14		1,5	2607001400	**91,828**
15		1,5	2607001500	**91,828**
15,2	Pg 9	1,5	2607001520	**91,828**
16		2	2607001600	**67,486**
16,5	M 16x1,5	2	2607001650	**67,486**
17		2	2607001700	**67,486**
18		2	2607001800	**67,486**
18,6	Pg 11	2	2607001860	**71,776**
19		2	2607001900	**71,776**
20		2	2607002000	**71,776**
20,5	Pg 13,5 M 20x1,5	2	2607002050	**71,776**
21		2	2607002100	**71,776**
22		2	2607002200	**76,014**
22,5	Pg 16	2	2607002250	**76,014**
23		2	2607002300	**76,014**
24		2	2607002400	**76,014**
25		2	2607002500	**84,436**
25,5	M 25x1,5	2	2607002550	**84,436**
26		2	2607002600	**84,436**
27		2	2607002700	**84,436**
28		2	2607002800	**88,764**
28,3	Pg 21	2	2607002830	**88,764**
29		2	2607002900	**88,764**
30		2	2607003000	**88,764**
30,5		2	2607003050	**90,955**
32		2	2607003200	**90,955**
32,5	M 32x1,5	2	2607003250	**99,117**
33		2	2607003300	**99,117**
34		2	2607003400	**99,117**
35		2	2607003500	**99,117**
36		2	2607003600	**107,708**

Ø	Pg/M	S	cod.	€ cad/each
37	Pg 29	2	2607003700	**107,708**
38		2	2607003800	**107,708**
39		2	2607003900	**130,460**
40		2	2607004000	**130,460**
40,5	M 40x1,5	3	2607004050	**130,460**
41		2	2607004100	**130,460**
42		2	2607004200	**142,430**
43		2	2607004300	**142,430**
44		2	2607004400	**142,430**
45		2	2607004500	**152,299**
46		2	2607004600	**152,299**
47	Pg 36	2	2607004700	**152,299**
48		2	2607004800	**164,998**
50		2	2607005000	**164,998**
50,5	M 50x1,5	4	2607005050	**180,515**
51		3	2607005100	**180,515**
52		3	2607005200	**180,515**
52,5		3	2607005250	**266,528**
54	Pg 42	3	2607005400	**193,200**
55		3	2607005500	**193,200**
57		3	2607005700	**205,886**
58		3	2607005800	**205,886**
59		3	2607005900	**205,886**
60	Pg 48	3	2607006000	**224,218**
60,5		3	2607006050	**331,405**
61		3	2607006100	**224,218**
62		3	2607006200	**224,218**
63		3	2607006300	**273,581**
63,5	M 63x1,5	3	2607006350	**273,581**
64		3	2607006400	**273,581**
65		3	2607006500	**273,581**
70		3,5	2607007000	**344,092**
73		3,5	2607007300	**403,324**
75		3,5	2607007500	**403,324**
80		3,5	2607008000	**480,889**
85		3,5	2607008500	**689,591**
89		3,5	2607008900	**700,883**
102		3,5	2607010200	**981,505**

26071

TIRANTI CON CUSCINETTI
Draw stud

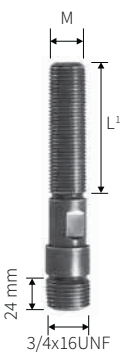


Per punzoni *For punches*	M	a	cod.	€ cad/each
Ø 10÷13	6x1	5	2607106X1	**35,648**
Ø 14÷15.2	8x1	13	2607108X1	**43,569**
Ø 16÷38	10x1	17	2607110X1	**21,197**
Ø 39÷50	12x1,5	19	2607112X15	**27,011**
Ø 51÷62	16x1,5	24	2607116X15	**31,372**
Ø 66÷85	20x1,5	30	2607120X15	**39,816**
Ø 86÷102	24x1,5	36	2607124X15	**62,227**

a = Dimensione della chiave per la testa del tirante

TIRANTI PER POMPA IDRAULICA
Draw stud for hydraulic pump

26084



Per punzoni *For punches*	M	L¹	cod.	€ cad/each
Ø14÷15,2	8 x 1	38	2608408x1	**60,641**
Ø16÷38	10 x 1	40	2608410x1	**60,641**
Ø39÷50	12 x 1,5	50	2608412x15	**60,641**
Ø51÷62	16 x1,5	60	2608416x15	**60,641**
Ø63÷85	20 x 1,5	73	2608420x15	**76,156**
Ø89÷102	24 x 1,5	81	2608424x15	**83,197**

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

Inox *Stainless*

Adatti per fori precisi in lamiere di acciaio, acciaio inox, tutti i metalli, plastica
For precise holes in steel and stainless steel metal sheets, metals, plastics

ASSORTIMENTI PUNZONI
Set of ball bearing punches



Utilizzo con chiave
To be used with wrench

Art. 26085100
€ 406,412

Composizione
Description

Pg 7 - Pg 29

Ø 12,5 - 15,2 - 18,6
20,5 - 22,5 - 28,3
37



Utilizzo con chiave
To be used with wrench

Art. 26085110
€ 1.205,735

Composizione
Description

Pg 7 - Pg 48

Ø 12,5 - 15,2 - 18,6
20,5 - 22,5 - 28,3
37 - 47 - 54 - 60

Ø 7÷21 mm

Art. 26085111
€ 1.027,582

Composizione
Description

M 12x1,5 - M 63x1,5

Ø 12,5 - 16,5 - 20,5
25,5 - 32,5 - 40,5
50,5 - 63,5

Utilizzo con pompa idraulica
To be used with hydraulic pump

Art. 26085112
€ 1.762,824

Composizione
Description

Pg 9 - Pg 48

Ø 15,2 - 18,6 - 20,5
22,5 - 28,3 - 37
47 - 54 - 60

Art. 26085113
€ 1.475,880

Composizione
Description

M 16x1,5 - M 63x1,5

Ø 16,5 - 20,5 - 25,5
32,5 - 40,5 - 50,5
63,5

ASSORTIMENTI PUNZONI CON POMPA IDRAULICA
Set of ball bearing punches with hydraulic pump



Utilizzo con pompa idraulica
To be used with hydraulic pump

Art. 26085120
€ 1.879,248

Composizione
Description

Pg 9 - Pg 29

Ø 15,2 - 18,6 - 20,5
22,5 - 28,3 - 37

Pompa/Pump
Art. 2607514

Art. 26085121
€ 1.879,248

Composizione
Description

M 16x1,5 - M 40x1,5

Ø 16,5 - 20,5 - 25,5
32,5 - 40,5

Pompa/Pump
Art. 2607514

POMPA IDRAULICA
Hydraulic pump



Art. 2607514
€ 1.598,320

Pompa idraulica manuale a testa orientabile (600 bar)
Utilizzo con punzoni fino a 63,5 mm - Contiene 4 tiranti e 4 spessori.
Hydraulic pump with revolving head - With 4 drawstud and 4 shims.



Art.2607515
€ 2.890,937

In esaurimento
To be discontinued

Pompa idraulica manuale (700 bar)
Utilizzo con punzoni fino a 150 mm. Lunghezza tubo: 0,9 m
Hand Hydraulic pump.


KRINO

PUNTE A GRADINO E SVASATORI

SUBLAND TWIST DRILLS AND COUNTERSINKS

PUNTE A GRADINO PER FORI PASSANTI DI SEDI VITI - 180°
Subland twist drills for through screw holes - 180°

01103 HSS DIN 8376

180° - Grado fine
180° - Fine grade

Eliche indipendenti
Independent spirals

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

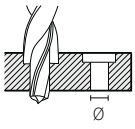
Alluminio *Aluminum*

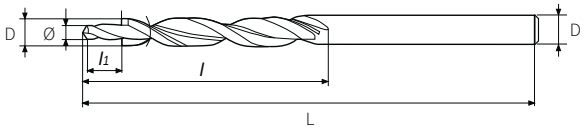


Confezione
Packaging



Vite *Thread*		Ø	D	l_1	l	L	cod.	€ cad/each
M	**3**	3,4	6	9	57	93	011030300	**38,754**
	4	4,5	8	11	75	117	011030400	**43,604**
	5	5,5	10	13	87	133	011030500	**53,304**
	6	6,6	11	15	94	142	011030600	**62,980**
	8	9	15	19	114	169	011030800	**78,476**
	10	11	18	23	130	191	011031000	**117,254**





01059 HSS DIN 8376 SERIE CORTA

180° - Grado fine
180° - Fine grade

Elica singola
Single spiral

Applicazioni
Applications

Acciaio *Steel*

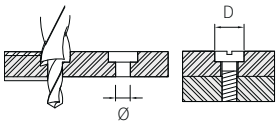
Metalli *Metals*

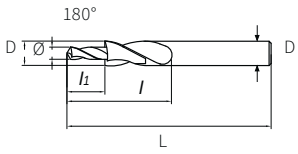


Confezione
Packaging



Vite *Thread*		Ø	D	l_1	l	L	cod.	€ cad/each
M	**3**	3,4	6	9	28	66	010590300	**17,472**
	4	4,5	8	11	37	79	010590400	**21,850**
	5	5,5	10	13	43	89	010590500	**32,773**
	6	6,6	11	15	47	95	010590600	**48,066**
	8	9,0	15	19	56	111	010590800	**69,903**
	10	11,0	18	23	62	123	010591000	**109,235**





01104 HSS DIN 8377 CODOLO CONICO

180° - Grado fine
180° - Fine grade

Eliche indipendenti
Independent spirals

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

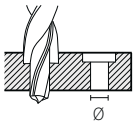
Alluminio *Aluminum*

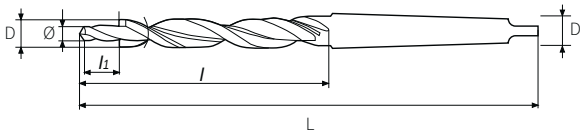


Confezione
Packaging



Vite *Thread*		Ø	D	l_1	l	L	MK	cod.	€ cad/each
M	**5**	5,5	10	13	87	168	1	011040500	**78,951**
	6	6,6	11	15	94	175	1	011040600	**82,890**
	8	9	15	19	114	212	2	011040800	**111,602**
	10	11	18	23	130	228	2	011041000	**146,889**
	12	13,5	20	27	140	238	2	011041200	**182,296**
	14	15,5	24	31	160	281	3	011041400	**222,952**
	16	17,5	26	35	165	286	3	011041600	**262,300**
	18	20	30	39	175	296	3	011041800	**304,268**
	20	22	33	43	185	334	4	011042000	**354,101**





FRESE CON PERNO GUIDA PER FORI PASSANTI DI SEDI VITI - 180°
Deburring tools for through screw holes - 180°

01273 HSS DIN 373

180° - Grado fine
180° - Fine grade

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

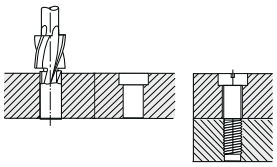
Alluminio *Aluminum*



Confezione
Packaging



Vite *Thread*	Ø	d¹	L	d	cod.	€ cad/each
M 3	6	3,2	71	5	0127303	21,366
4	8	4,3	71	5	0127304	21,366
5	10	5,3	80	8	0127305	21,366
6	11	6,4	80	8	0127306	22,173
8	15	8,4	100	12,5	0127308	35,635
10	18	10,5	100	12,5	0127310	42,772
12	20	13,0	100	12,5	0127312	46,721



Grado fine per viteria/bulloneria di precisione.
Fine grade to fit precision screwing.



Art. 01275100
€ 190,384
6 pcs
M 3÷10

01274 HSS DIN 373

180° - Grado medio
180° - Medium grade

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

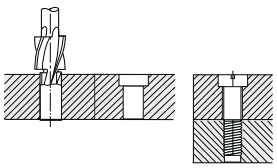
Alluminio *Aluminum*



Confezione
Packaging



Vite *Thread*	Ø	d¹	L	d	cod.	€ cad/each
M 3	6	3,4	71	5	0127403	21,366
4	8	4,5	71	5	0127404	21,366
5	10	5,5	80	8	0127405	21,366
6	11	6,6	80	8	0127406	22,173
8	15	9,0	100	12,5	0127408	35,635
10	18	11,0	100	12,5	0127410	42,772
12	20	14,0	100	12,5	0127412	49,180



Grado medio per meccanica standard.
Medium grade to fit standard coupling.



Art. 01275101
€ 190,384
6 pcs
M 3÷10

01277 HSS TiAlN DIN 373

180° - Grado medio
180° - Medium grade

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

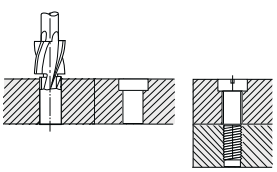
Alluminio *Aluminum*

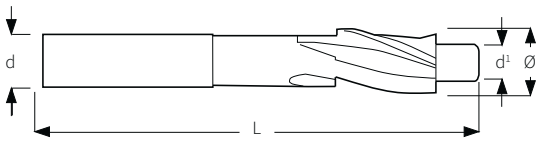


Confezione
Packaging



Vite *Thread*	Ø	d¹	L	d	cod.	€ cad/each
M 3	6	3,4	71	5	0127703	25,613
4	8	4,5	71	5	0127704	31,524
5	10	5,5	80	8	0127705	32,799
6	11	6,6	80	8	0127706	39,404
8	15	9,0	100	12,5	0127708	56,673
10	18	11,0	100	12,5	0127710	68,146
12	20	14,0	100	12,5	0127712	90,400





PUNTE A GRADINO PER FORI PASSANTI DI SEDI VITI - 90°
Subland twist drills for through screw holes

01101 HSS DIN 8374

90° - Grado fine
90° - Fine grade

Eliche indipendenti
Independent spirals

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

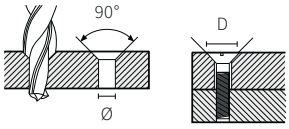
Alluminio *Aluminum*

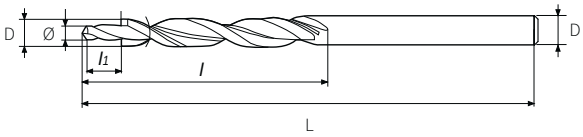


Confezione
Packaging



Vite Thread		Ø	D	l_1	l	L	cod.	€ cad/each
M	**3**	3,2	6	9	57	93	011010300	**44,052**
	4	4,3	8	11	75	117	011010400	**50,527**
	5	5,3	10	13	87	133	011010500	**63,782**
	6	6,4	11,5	15	94	142	011010600	**73,420**
	8	8,4	15	19	114	169	011010800	**124,335**
	10	10,5	19	23	135	198	011011000	**192,796**





01058 HSS DIN 8374 SERIE CORTA

90° - Grado fine
90° - Fine grade

Elica singola
Single spiral

Applicazioni
Applications

Acciaio *Steel*

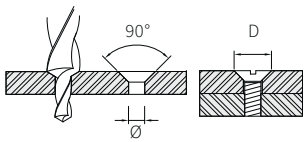
Metalli *Metals*

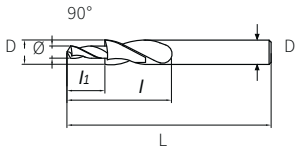


Confezione
Packaging



Vite Thread		Ø	D	l_1	l	L	cod.	€ cad/each
M	**3**	3,2	6	9	28	66	010580300	**17,472**
	4	4,3	8	11	37	79	010580400	**21,850**
	5	5,3	10	13	43	89	010580500	**32,773**
	6	6,4	11,5	15	47	95	010580600	**48,066**
	8	8,4	15	19	56	111	010580800	**69,903**
	10	10,5	19	23	62	123	010581000	**109,235**





01102 HSS DIN 8375 CODOLO CONICO

90° - Grado fine
90° - Fine grade

Eliche indipendenti
Independent spirals

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

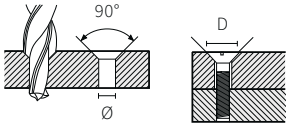
Alluminio *Aluminum*

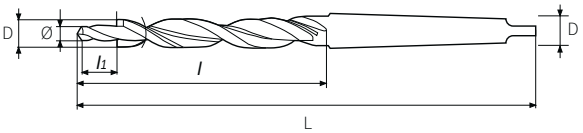


Confezione
Packaging



Vite Thread		Ø	D	l_1	l	L	M.K.	cod.	€ cad/each
M	**5**	5,5	11	13	94	175	1	011020500	**85,570**
	6	6,6	13	15	101	182	1	011020600	**114,986**
	8	9	17,2	19	130	228	2	011020800	**146,889**
	10	11	21,5	23	150	248	2	011021000	**203,286**





01117 HSS DIN 8378

90° - Per prefori di filettature
90° - For thread core hole

Eliche indipendenti
Independent spirals

Applicazioni
Applications

Acciaio *Steel*

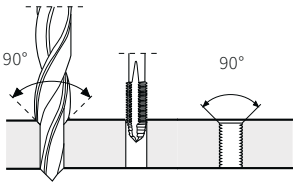
Metalli *Metals*

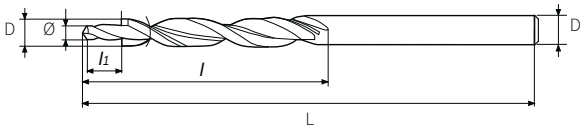


Confezione
Packaging



Vite *Thread*	Ø	D	l_1	l	L	cod.	€ cad/each
M 3	2,5	3,4	8,8	39	70	011170300	48,821
4	3,3	4,5	11,4	47	80	011170400	52,083
5	4,2	5,5	13,6	57	93	011170500	53,714
6	5	6,6	16,5	63	101	011170600	61,849
8	6,8	9,0	21	81	125	011170800	69,980
10	8,5	11	25,5	94	142	011171000	91,140
12	10,2	13,5	30	108	160	011171200	118,800





01057 HSS DIN 8378 SERIE CORTA

90° - Per prefori di filettature
90° - For thread core hole

Elica singola
Single spiral

Applicazioni
Applications

Acciaio *Steel*

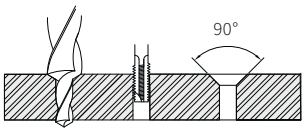
Metalli *Metals*

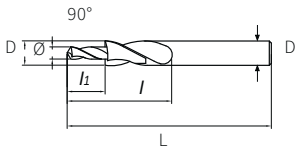


Confezione
Packaging



Vite *Thread*	Ø	D	l_1	l	L	cod.	€ cad/each
M 3	2,5	3,4	8,8	20	52	010570300	18,351
4	3,3	4,5	11,4	24	58	010570400	18,351
5	4,2	5,5	13,6	28	66	010570500	20,970
6	5,0	6,6	16,5	31	70	010570600	23,597
8	6,8	9,0	21,0	40	84	010570800	31,461
10	8,5	11,0	25,5	47	95	010571000	47,183
12	10,2	13,5	30,0	54	107	010571200	65,537





01272 HSS DIN 373

180° - Per prefori di filettature
180° - For thread core hole

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

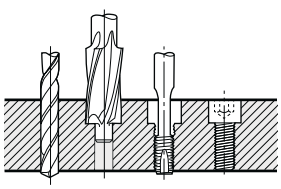
Alluminio *Aluminum*

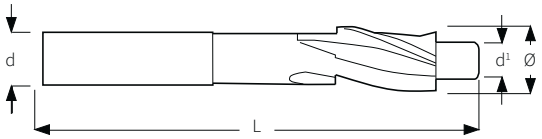


Confezione
Packaging



Vite *Thread*	Ø	d^1	L	d	cod.	€ cad/each
M 3	6	2,5	71	5	0127203	21,366
4	8	3,3	71	5	0127204	21,366
5	10	4,2	80	8	0127205	21,366
6	11	5,0	80	8	0127206	22,173
8	15	6,8	100	12,5	0127208	35,635
10	18	8,5	100	12,5	0127210	42,772
12	20	10,2	100	12,5	0127212	46,721





01110 HSS-G DIN 333/A 60°

HSS-G



Ø k12	D h8	L	pcs.	cod.	€ cad/each
1	3,15	31,5	1	011100100	**6,375**
1,6	4	35,5	1	011100160	**6,246**
2	5	40	1	011100200	**6,610**
2,5	6,3	45	1	011100250	**7,119**
3,15	8	50	1	011100315	**8,332**
4	10	56	1	011100400	**16,272**
5	12,5	63	1	011100500	**22,086**
6,3	16	71	1	011100630	**37,159**

01214 HSS-G TiN DIN 333/A 60°

HSS-G + TiN



Ø k12	D h8	L	pcs.	cod.	€ cad/each
1	3,15	31,5	1	012140100	**10,373**
1,6	4	35,5	1	012140160	**10,510**
2	5	40	1	012140200	**10,941**
2,5	6,3	45	1	012140250	**11,813**
3,15	8	50	1	012140315	**13,397**
4	10	56	1	012140400	**22,512**
5	12,5	63	1	012140500	**30,601**
6,3	16	71	1	012140630	**45,917**

01374 HSS-G DIN 333/A ESECUZIONE PROLUNGATA 60°

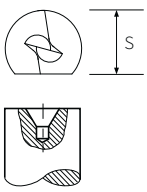
HSS-G



Ø	D	L	pcs.	cod.	€ cad/each
1	4	120	1	013740100	**28,315**
1,6	5	120	1	013740160	**28,315**
2	6	120	1	013740200	**28,315**
2,5	8	120	1	013740250	**30,834**
3,15	10	120	1	013740315	**59,762**

01375 HSS-G DIN 333/A ESECUZIONE CON PIANO 60°

HSS-G





Ø	D	S		pcs.	cod.	€ cad/each
1,6	4	35,5	3,25	1	013750160	**17,268**
2	5	40	4,2	1	013750200	**17,268**
2,5	6,3	45	5,35	1	013750250	**17,268**
3,15	8	50	6,95	1	013750315	**21,877**
4	10	56	8,4	1	013750400	**30,834**
5	12,5	63	10,95	1	013750500	**47,180**
6,3	16	71	14	1	013750630	**83,039**

01112 HSS-G DIN 333/B 60° / 120°

HSS-G



Ø	D	L	pcs.	cod.	€ cad/each
1	4	35,5	1	011120100	**9,727**
1,6	6,3	45	1	011120160	**10,652**
2	8	50	1	011120200	**11,500**
2,5	10	56	1	011120250	**14,681**
3,15	11,2	60	1	011120315	**17,641**
4	14	67	1	011120400	**27,914**
5	18	75	1	011120500	**35,097**
6,3	20	80	1	011120630	**51,475**

01217 HSS-G TiN DIN 333/B 60° / 120°

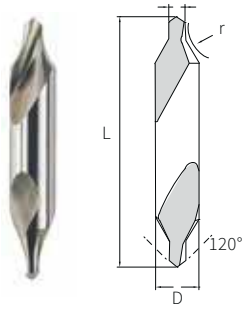
HSS-G + TiN



Ø	D	L	pcs.	cod.	€ cad/each
1	4	35,5	1	012170100	**15,547**
1,6	6,3	45	1	012170160	**16,264**
2	8	50	1	012170200	**17,287**
2,5	10	56	1	012170250	**24,966**
3,15	11,2	60	1	012170315	**27,048**
4	14	67	1	012170400	**40,454**
5	18	75	1	012170500	**56,624**
6,3	20	80	1	012170630	**74,558**

01111 HSS-G DIN 333/R — A RAGGIO

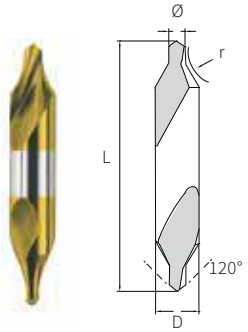
HSS-G



Ø	r	D	L	pcs.	cod.	€ cad/each
1	3,15	3,15	31,5	1	011110100	**6,375**
1,6	5	4	35,5	1	011110160	**6,246**
2	6,3	5	40	1	011110200	**6,610**
2,5	8	6,3	45	1	011110250	**7,119**
3,15	10	8	50	1	011110315	**8,332**
4	12,5	10	56	1	011110400	**16,272**
5	16	12,5	63	1	011110500	**22,086**
6,3	20	16	71	1	011110630	**37,159**

01216 HSS-G TiN DIN 333/R — A RAGGIO

HSS-G + TiN



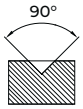
Ø	r	D	L	pcs.	cod.	€ cad/each
1	3,15	3,15	31,5	1	012160100	**10,735**
1,6	5	4	35,5	1	012160160	**10,889**
2	6,3	5	40	1	012160200	**11,393**
2,5	8	6,3	45	1	012160250	**12,410**
3,15	10	8	50	1	012160315	**14,237**
4	12,5	10	56	1	012160400	**23,704**
5	16	12,5	63	1	012160500	**32,549**
6,3	20	16	71	1	012160630	**49,300**

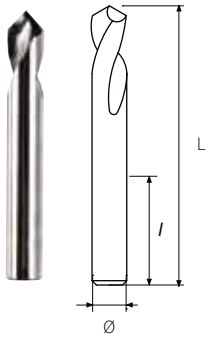
PUNTE A CENTRARE CILINDRICHE PER CENTRI CN
Center drills for CN machines

01361 VHM METALLO DURO
Carbide

90°





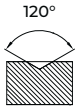


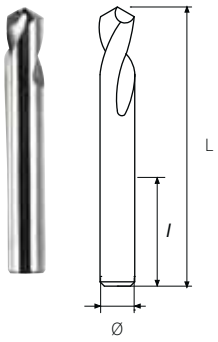
Ø h7	l	L	pcs.	cod.	€ cad/each
5	10	50	1	013610500	**44,171**
6	15	50	1	013610600	**57,420**
8	20	63	1	013610800	**79,504**
10	22	72	1	013611000	**110,415**
12	22	73	1	013611200	**176,671**
14	25	75	1	013611400	**238,208**
16	25	82	1	013611600	**309,173**
20	30	104	1	013612000	**530,013**

01363 VHM METALLO DURO
Carbide

120°





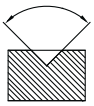


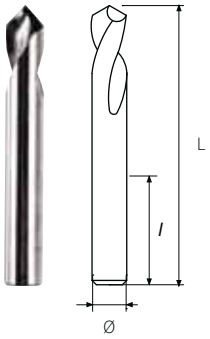
Ø h7	l	L	pcs.	cod.	€ cad/each
5	10	50	1	013630500	**44,171**
6	15	50	1	013630600	**57,420**
8	20	63	1	013630800	**79,504**
10	22	72	1	013631000	**110,415**
12	22	73	1	013631200	**176,671**
14	25	75	1	013631400	**238,208**
16	25	82	1	013631600	**309,173**
20	30	104	1	013632000	**530,013**

01364 HSS-G

90°







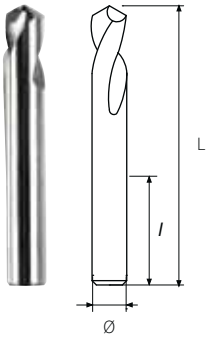
Ø	l mm	L mm	pcs.	cod.	€ cad/each
3	12	46	1	013640300	**13,811**
4	12	55	1	013640400	**14,769**
5	14	62	1	013640500	**16,615**
6	16	66	1	013640600	**19,213**
8	21	79	1	013640800	**29,059**
10	25	89	1	013641000	**36,784**
12	30	102	1	013641200	**51,964**
14	33	107	1	013641400	**74,184**
16	37	115	1	013641600	**80,884**
20	45	131	1	013642000	**138,317**

01365 HSS-G

120°







Ø	l mm	L mm	pcs.	cod.	€ cad/each
3	12	46	1	013650300	**13,811**
4	12	55	1	013650400	**14,769**
5	14	62	1	013650500	**16,615**
6	16	66	1	013650600	**19,213**
8	21	79	1	013650800	**29,059**
10	25	89	1	013651000	**36,784**
12	30	102	1	013651200	**51,964**
14	33	107	1	013651400	**74,184**
16	37	115	1	013651600	**80,884**
20	45	131	1	013652000	**138,317**

SVASATORI A 3 TAGLIENTI A 90° IN METALLO DURO
90° 3 flutes carbide countersinks

01264 | MD | TiAlN | DIN 335/C-90°
Carbide

90°

CBN

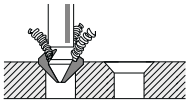
Z=3



Confezione
Packaging



Ø h10	d h7	L	per viti / *for screws* DIN 74 BF	cod.	€ cad/each
6,3	6	50	M 3	012640630	**117,743**
8,3	6	50	M 4	012640830	**127,690**
10,4	6	50	M 5	012641040	**137,128**
12,4	8	60	M 6	012641240	**150,395**
16,5	10	60	M 8	012641650	**214,446**
20,5	10	63	M 10	012642050	**335,358**
25	10	75	M 12	012642500	**478,322**



Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*

01263 | MD | DIN 335/C-90°
Carbide

90°

CBN

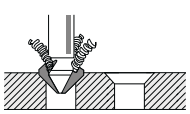
Z=3



Confezione
Packaging



Ø h10	d h7	L	per viti / *for screws* DIN 74 BF	cod.	€ cad/each
6,3	6	50	M 3	012630630	**102,799**
8,3	6	50	M 4	012630830	**112,431**
10,4	6	50	M 5	012631040	**115,644**
12,4	8	60	M 6	012631240	**128,492**
16,5	10	60	M 8	012631650	**186,309**
20,5	10	63	M 10	012632050	**295,536**
25	10	75	M 12	012632500	**417,600**



Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*

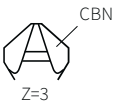
SVASATORI A 90° CON GEOMETRIA ASIMMETRICA DEI 3 TAGLIENTI E FORMA ELICOIDALE

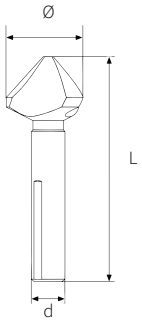
90° 3 uniqual cutting edges countersinks with spiral shape

01265 | **HSS** | **~DIN 335-90° ASIMMETRICO ELICOIDALE**

Finitura perfetta
Massima velocità
Perfect finish - Max speed





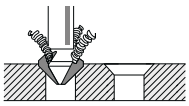




Confezione
Packaging



Ø *mm*	d *mm*	L *mm*	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	€ cad/each
6,3	5	45		M3	012650630	**15,327**
8,3	6	50		M4	012650830	**17,379**
10,4	6	50		M5	012651040	**20,937**
12,4	8	56		M6	012651240	**22,598**
15	10	60	M8		012651500	**26,488**
16,5	10	60		M8	012651650	**27,673**
20,5	10	63		M10	012652050	**38,084**
25	10	67		M12	012652500	**58,485**
31	12	71		M16	012653100	**80,535**





Art. 01270114
€ 145,000

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

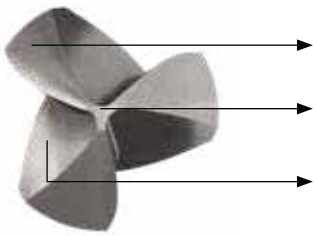
Applicazioni
Applications



Acciaio
Steel



Metalli
Metals



Geometria asimmetrica
Unequal pitch

Geometria a spirale
Spiral geometry

3 Taglienti 90°
3 flutes 90°





MINORI VIBRAZIONI, FINITURA PERFETTA: la speciale forma elicoidale dei taglienti smorza sensibilmente le vibrazioni che si sviluppano durante le lavorazioni anche più gravose, contribuendo a migliorare il livello di finitura oltre che l'esperienza di utilizzo con elettroutensili portatili.

MASSIMA VELOCITÀ: la forma a spirale dei taglienti permette una più rapida ed efficiente espulsione dei trucioli, garantendo lavorazioni estremamente rapide.

HSS: utensile prodotto con acciaio super rapido di alta qualità, ideale per lavori di svasatura su acciai legati, ghise, tutti i metalli in generale.

PIANETTI ANTISLITTAMENTO: il codolo è dotato di tre le superfici rettificate che garantiscono la massima presa delle griffe eliminando il rischio di slittamento dell'utensile nel mandrino.

LESS VIBRATIONS, PERFECT FINISH: *the special helical shape of the cutting edges significantly REDUCES the vibrations that develop during the heaviest jobs, helping to improve the level of finish as well as the experience of using portable power tools.*

MAXIMUM SPEED: *the spiral shape of the cutting edges allows for faster and more efficient chip ejection, guaranteeing machining extremely fast.*

HSS: *tool produced with high quality super-rapid steel, ideal for flaring work on alloy steels, cast irons, all metals in general.*

ANTI-SLIP PLATES: *the SHANK is equipped with three ground surfaces that guarantee maximum grip of the jaws, eliminating the risk slippage of the tool in the spindle.*

SVASATORI A 90° CON GEOMETRIA ASIMMETRICA DEI 3 TAGLIENTI
90° 3 uniqual cutting edges countersinks

01267 HSS-CO ~DIN 335-90°

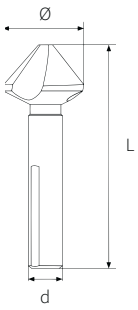
Asimmetrico - Finitura perfetta
Asymmetric - Perfect finish



CBN



Z=3

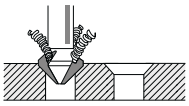




Confezione
Packaging



Ø mm	d mm	L mm	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	€ cad/each
6,3	5	45		M3	012670630	**16,493**
8,3	6	50		M4	012670830	**18,580**
10,4	6	50		M5	012671040	**26,665**
12,4	8	56		M6	012671240	**29,832**
15	10	60	M8		012671500	**34,173**
16,5	10	60		M8	012671650	**36,680**
20,5	10	63		M10	012672050	**50,919**
25	10	67		M12	012672500	**69,189**
31	12	71		M16	012673100	**92,555**





ABS

Art. 01270113
€ 156,000

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

Applicazioni
Applications



Inox *Stainless*



Acciaio *Steel*



Metalli *Metals*

01266 HSS ~DIN 335-90°

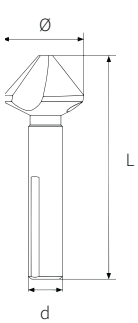
Asimmetrico - Finitura perfetta
Asymmetric - Perfect finish



CBN



Z=3

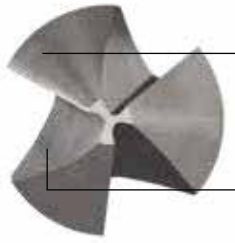




Confezione
Packaging



Ø mm	d mm	L mm	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	€ cad/each
6,3	5	45		M3	012660630	**14,191**
8,3	6	50		M4	012660830	**16,092**
10,4	6	50		M5	012661040	**19,386**
12,4	8	56		M6	012661240	**20,924**
15	10	60	M8		012661500	**24,526**
16,5	10	60		M8	012661650	**25,623**
20,5	10	63		M10	012662050	**35,263**
25	10	67		M12	012662500	**54,153**
31	12	71		M16	012663100	**74,569**



Geometria asimmetrica
Unequal pitch

3 Taglienti 90°
3 flutes 90°



ABS

Art. 01270112
€ 131,000

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

Applicazioni
Applications



Acciaio *Steel*



Metalli *Metals*

GEOMETRIA ASIMMETRICA: la speciale geometria asimmetrica, grazie al differente angolo di spoglia di ciascun tagliente, garantisce una perfetta finitura del foro, che risulta tondo e liscio.

HSS e HSS-CO: utensile ideale per lavori di svasatura su acciai legati, ghise, tutti i metalli in generale e, nella versione al cobalto 5%, anche su acciao inox.

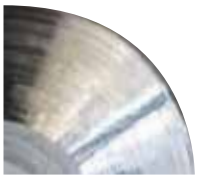
PIANETTI ANTISLITTAMENTO: il codolo è dotato di tre superfici rettificate (per ø ≥12,4 mm) che garantiscono la massima presa delle griffe eliminando il rischio di slittamento dell'utensile nel mandrino.



ASYMMETRIC GEOMETRY: *the special asymmetric geometry, thanks to the different rake angle of each cutting edge, guarantees perfect finish of the hole, which is round and smooth.*

HSS and HSS-CO: *ideal tool for flaring work on alloy steels, cast irons, all metals in general and, in the 5% cobalt version, also on stainless steel.*

ANTI-SLIP PLATES: *the tang has three ground surfaces (for ø ≥12.4 mm) which guarantee maximum grip of the jaws eliminating the risk of tool slippage in the spindle.*



SVASATORI A 3 TAGLIENTI A 90°
90° 3 cutting edges countersinks

01262 HSS-CO TiAlN DIN 335/C-90°

90°

CBN

Z=3

Applicazioni
Applications

Inox
Stainless

Acciaio
Steel

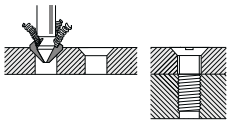
Metalli
Metals



Confezione
Packaging



Ø mm	d mm	L mm	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	€ cad/each
6,3	5	45		M 3	012620630	**17,837**
8,3	6	50		M 4	012620830	**23,358**
10,4	6	50		M 5	012621040	**34,211**
12,4	8	56		M 6	012621240	**42,470**
15	10	60	M 8		012621500	**46,598**
16,5	10	60		M 8	012621650	**50,727**
20,5	10	63		M 10	012622050	**69,602**
25	10	67		M 12	012622500	**106,173**
28	12	71		M 16	012622800	**112,281**
30	12	71			012623000	**119,336**
31	12	71			012623100	**126,228**
40	15	80			012624000	**145,377**





Art. 01270111
€ 207,569

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

01261 HSS-CO DIN 335/C-90°

90°

CBN

Z=3

Applicazioni
Applications

Inox
Stainless

Acciaio
Steel

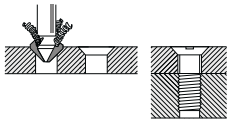
Metalli
Metals



Confezione
Packaging



Ø mm	d mm	L mm	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	€ cad/each
6,3	5	45		M 3	012610630	**14,341**
8,3	6	50		M 4	012610830	**16,157**
10,4	6	50		M 5	012611040	**23,187**
12,4	8	56		M 6	012611240	**25,941**
15	10	60	M 8		012611500	**29,716**
16,5	10	60		M 8	012611650	**31,896**
20,5	10	63		M 10	012612050	**44,278**
25	10	67		M 12	012612500	**60,165**
28	12	71		M 16	012612800	**64,482**
30	12	71			012613000	**68,995**
31	12	71			012613100	**80,482**
40	15	80			012614000	**85,224**





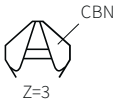
Art. 01270110
€ 135,598

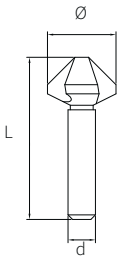
6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

SVASATORI A 3 TAGLIENTI A 90°
90° 3 cutting edges countersinks

01260 | HSS | TiN | **DIN 335/C-90°**









Confezione
Packaging



Ø *mm*	d *mm*	L *mm*	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	€ cad/each
4,3	4	40			012600430	**17,532**
5	4	40	M 2,5		012600500	**17,532**
5,3	4	40			012600530	**17,532**
5,8	5	45			012600580	**17,773**
6	5	45	M 3		012600600	**17,773**
6,3	5	45		M 3	012600630	**18,149**
7	6	50	M 3,5		012600700	**19,460**
7,3	6	50			012600730	**19,460**
8	6	50	M 4		012600800	**19,836**
8,3	6	50		M 4	012600830	**19,836**
9,4	6	50			012600940	**21,272**
10	6	50	M 5		012601000	**25,055**
10,4	6	50		M 5	012601040	**25,055**
11,5	8	56	M 6		012601150	**26,564**
12,4	8	56		M 6	012601240	**26,564**
13,4	8	56			012601340	**28,996**
15	10	60	M 8		012601500	**31,015**
16,5	10	60		M 8	012601650	**34,689**
19	10	63	M 10		012601900	**43,780**
20,5	10	63		M 10	012602050	**45,384**
23	10	67	M 12		012602300	**71,402**
25	10	67		M 12	012602500	**69,140**
26	12	67	M 14		012602600	**82,741**
28	12	71		M 14	012602800	**86,136**
30	12	71	M 16		012603000	**88,409**
31	12	71		M 16	012603100	**90,674**
40	15	80			012604000	**130,746**

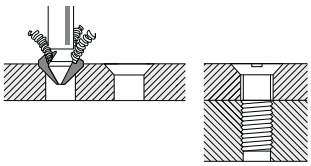
Applicazioni
Applications



Acciaio
Steel



Metalli
Metals





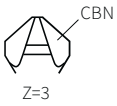
Art. 01270109
€ 170,013

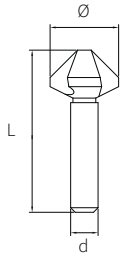
6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

SVASATORI A 3 TAGLIENTI A 90°
90° 3 cutting edges countersinks

01185 | HSS | **DIN 335/C-90°**









Confezione
Packaging

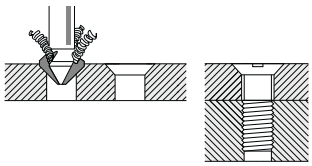


Ø *mm*	d *mm*	L *mm*	per viti / *for screws* DIN 74 AF ⊖	DIN 74 BF ◎	cod.	€ cad/each
4,3	4	40			011850430	**11,970**
5	4	40	M 2,5		011850500	**11,970**
5,3	4	40			011850530	**11,970**
5,8	5	45			011850580	**12,342**
6	5	45	M 3		011850600	**12,342**
6,3	5	45		M 3	011850630	**12,342**
7	6	50	M 3,5		011850700	**13,679**
7,3	6	50			011850730	**13,679**
8	6	50	M 4		011850800	**13,995**
8,3	6	50		M 4	011850830	**13,995**
9,4	6	50			011850940	**15,346**
10	6	50	M 5		011851000	**16,860**
10,4	6	50		M 5	011851040	**16,860**
11,5	8	56	M 6		011851150	**18,198**
12,4	8	56		M 6	011851240	**18,198**
13,4	8	56			011851340	**21,330**
15	10	60	M 8		011851500	**21,330**
16,5	10	60		M 8	011851650	**22,285**
19	10	63	M 10		011851900	**30,668**
20,5	10	63		M 10	011852050	**30,668**
23	10	67	M 12		011852300	**47,097**
25	10	67		M 12	011852500	**47,097**
26	12	67	M 14		011852600	**61,091**
28	12	71		M 14	011852800	**61,091**
30	12	71	M 16		011853000	**64,853**
31	12	71		M 16	011853100	**64,853**
40	15	80			011854000	**73,357**

Applicazioni
Applications


Acciaio
Steel


Metalli
Metals





Art. 01270107
€ 113,334

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

SVASATORI A 90° CON ATTACCO ESAGONALE 1/4”
90° countersink with 1/4” hexagon shank

19003 HSS DIN 335/C-90°

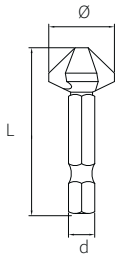
Attacco 1/4" HEX form E
1/4" HEX form E shank

90°

CBN

Z=3





Ø	L	d ⬡	per viti / *for screws* DIN 74 BF ◎	cod.	€ cad/each
6,3	40	1/4	M 3	190030630	**12,340**
8,3	45	1/4	M 4	190030830	**13,993**
10,4	47	1/4	M 5	190031040	**16,857**
12,4	49	1/4	M 6	190031240	**18,195**
16,5	52	1/4	M 8	190031650	**22,281**
20,5	55	1/4	M 10	190032050	**30,663**

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

19001 HSS DIN 335/C-90°

Attacco 1/4" HEX
1/4" HEX shank

90°

CBN

Z=3



Ø	L	d ⬡	per viti / *for screws* DIN 74 BF ◎	cod.	€ cad/each
6,3	31	1/4	M 3	19001063	**12,340**
8,3	31	1/4	M 4	19001083	**13,993**
10,4	34	1/4	M 5	19001104	**16,857**
12,4	35	1/4	M 6	19001124	**18,195**
16,5	40	1/4	M 8	19001165	**22,281**
20,5	41	1/4	M 10	19001205	**30,663**

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

Magnetico
Magnetic

	ØxL	cod.	€ cad/each
	**33x120**	19001000	**16,624**

Art. 19002 Self
Disponibile su richiesta
On demand



Art. 19020214
€ 113,281

6 pcs HSS
Attacco 1/4" HEX
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

01193 HSS **DIN 335/C-90°**

Serie lunga
Long serie







Ø *mm*	d	L	cod.	€ cad/each
6,3	5	104	011930630	**28,726**
8,3	6	105	011930830	**32,340**
10,4	6	107	011931040	**39,052**
12,4	8	108	011931240	**41,494**
15	10	109	011931500	**47,596**
16,5	10	111	011931650	**51,068**
20,5	10	114	011932050	**70,922**
25	10	118	011932500	**107,063**

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals

Lunghezza del codolo 100 mm
Shank lenght 100 mm

01196 HSS **DIN 335/D-90°**

Codolo Morse
Morse taper







Ø *mm*	MK	L	per viti / *for screws* DIN 74 AF ⊖	DIN 74 BF ◎	cod.	€ cad/each
15	1	85	M 8		011961500	**43,146**
16,5	1	85		M 8	011961650	**50,822**
19	2	100	M 10		011961900	**59,716**
20,5	2	100		M 10	011962050	**61,243**
23	2	106	M 12		011962300	**64,294**
25	2	106		M 12	011962500	**84,828**
26	2	106	M 14		011962600	**84,828**
28	2	112		M 14	011962800	**104,131**
30	2	112	M 16		011963000	**112,392**
31	2	112		M 16	011963100	**122,601**
34	2	118	M 18	M 18	011963400	**138,655**
37	2	118	M 20	M 20	011963700	**156,173**
40	3	140			011964000	**217,475**
50	3	150			011965000	**351,762**

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals

SVASATORI A 90°
90° countersinks

01192 HSS **DIN 335/C 90°**

1 tagliente
1 cutting edge







Ø mm	D	L	cod.	€ cad/each
6	5	45	011920600	**22,659**
8	6	50	011920800	**25,146**
10	6	50	011921000	**26,673**
12	8	56	011921200	**33,936**
16	10	60	011921600	**41,200**
20	10	63	011922000	**60,902**
25	10	67	011922500	**100,517**
30	12	71	011923000	**130,980**

Applicazioni
Applications

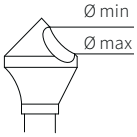

Metalli
Metals


Plastica
Plastic

01188 HSS

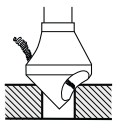
Speciale alluminio e plastica
Special for aluminium and plastics







Gr.	Ø min - max	d	L	cod.	€ cad/each
1	2 ÷ 5	6	45	0118801	**17,212**
2	5 ÷ 10	8	48	0118802	**21,725**
3	10 ÷ 15	10	65	0118803	**42,775**
4	15 ÷ 20	12	85	0118804	**75,798**
5	20 ÷ 25	15	102	0118805	**138,436**
6	25 ÷ 30	15	115	0118806	**204,085**
7	30 ÷ 35	15	127	0118807	**266,868**
8	35 ÷ 40	15	136	0118808	**375,339**
9	40 ÷ 50	20	166	0118809	**460,963**



Applicazioni
Applications


Metalli
Metals



Alluminio
Aluminum


Plastica
Plastic

Speciale per alluminio, metalli leggeri e plastica. Lavora senza vibrazioni, ottima finitura.
For alluminium, metals and plastics. For deburring and small chamfers.
Best surface finish. Works without vibrations.

01197 HSS **75°**

75°





Z=3



Ø *mm*	d	L	cod.	€ cad/each
6,3	5	45	011970630	**22,247**
8,3	6	50	011970830	**24,926**
10,4	6	50	011971040	**29,013**
12,4	8	56	011971240	**30,768**
13,4	8	56	011971340	**37,785**
16,5	10	63	011971650	**37,785**
20,5	10	67	011972050	**54,917**
25	10	71	011972500	**79,619**

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals

01186 HSS **DIN 334/C 60°**

60°





Z=3



Ø *mm*	d	L	cod.	€ cad/each
6,3	5	45	011860630	**16,565**
8	6	50	011860800	**20,392**
10	6	53	011861000	**22,551**
12,5	8	56	011861250	**29,988**
16	10	63	011861600	**29,988**
20	10	67	011862000	**40,916**
25	10	71	011862500	**61,787**
31,5	12	76	011863150	**85,370**

Applicazioni
Applications



Acciaio
Steel



Metalli
Metals

01187 HSS **DIN 335/C-90°** 90°




Z=3



Ø *mm*	L	cod.	€ cad/each
6,3	121	011870630	**24,398**
8,3	122	011870830	**27,480**
10,4	124	011871040	**30,395**
12,4	126	011871240	**34,223**
16,5	130	011871650	**43,121**
20,5	130	011872050	**53,883**

Manico *Handle*



ØxL	cod.	€ cad/each
33x120	19001000	**16,624**


Art. 01191 Self
Disponibile su richiesta
On demand


Magnetico
Magnetic

01190 HSS 40°



Z=6


Z=6



Gr.	Ø *min-max*	L	cod.	€ cad/each
1	10 ÷ 34	155	0119001	**88,660**

Speciale per sbavare condutture elettriche, tubi in rame o tubi in generale e grossi fori.
Quick and effective deburring of electrical conduit, copper pipe or any tubes or large holes.



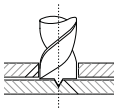
PUNTA FRESA IN HSS-CO PER RIMUOVERE PUNTI DI SALDATURA E PER FORARE LAMIERE IN GENERE

HSS-CO spot drills

01169 HSS-CO TiN ≃ DIN 1897



~DIN 1412/E
≃ DIN 1897

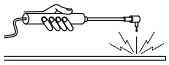




Confezione
Packaging



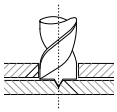
Ø *mm*	d	L	cod.	€ cad/each
6	6	66	011690600	**21,143**
7	7	74	011690700	**25,106**
8	8	79	011690800	**27,745**
10	10	89	011691000	**34,399**



01171 HSS-CO ≃ DIN 1897



~DIN 1412/E
≃ DIN 1897

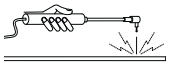




Confezione
Packaging



Ø *mm*	d	L	cod.	€ cad/each
6	6	66	011710600	**14,642**
7	7	74	011710700	**16,461**
8	8	79	011710800	**17,415**
10	10	89	011711000	**22,173**



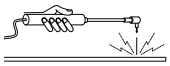
PUNTA FRESA IN HSS-CO PER RIMUOVERE PUNTI DI SALDATURA CON MACCHINE PNEUMATICHE

Milling drill for removing spot welds with pneumatic tools

01179 MD TiAlN

~DIN 1412/E





Ø mm	d	L	cod.	€ cad/each
6,5	8	40	011790650	**125,567**
8	8	40	011790800	**125,567**
10	8	44	011791000	**154,502**

Velocità consigliata 10.000 giri/min

Recommended speed 10.000 rpm

01173 HSS-CO TiN

~DIN 1412/E



Ø mm	d	L	cod.	€ cad/each
6,5	6,5	40	011730650	**19,944**
6,5	8	44	011730650V	**19,944**
8	8	40	011730800	**23,323**
8	8	44	011730800V	**23,323**

Velocità consigliata 3.000 giri/min

Recommended speed 3.000 rpm

01172 HSS-CO

~DIN 1412/E



Ø mm	d	L	cod.	€ cad/each
6,5	6,5	40	011720650	**16,167**
6,5	8	44	011720650V	**16,167**
8	8	40	011720800	**18,426**
8	8	44	011720800V	**18,426**

Velocità consigliata 3.000 giri/min

Recommended speed 3.000 rpm

Speciale per taglio di acciai molto duri con carico di resistenza fino a 1500N/mm²; **grande** rendimento grazie all'accoppiamento metallo duro + rivestimento TiAlN multistrato.

*Specially designed for cutting very hard metal sheets up to 1500N/mm² **tensile strenght**; great performances due to the combination of solid carbide and TiAlN multilayer coating.*

FRESA PER RIMUOVERE I PUNTI DI SALDATURA SU LAMIERE METALLICHE

Milling cutter for removing spot welds from metal sheets

01174 HSS





Ø mm	d	L	cod.	€ cad/each
10	7	72	01174100	**14,068**

Ricambi *Spare parts*	cod.	L	€ cad/each
	01174101		**7,197**
	01174102	26	**0,848**

PUNTA FRESA UNIVERSALE PER LA FORATURA E FRESATURA DI LAMIERE E MATERIALI SOTTILI IN LEGNO E PLASTICA

Universal milling drill for cutting and milling metal sheets and thin wooden or plastic materials

01175 HSS



Confezione
Packaging

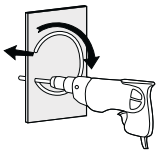


ØxL	cod.	€ cad/each
6x90	011750600	**6,779**

Applicazioni
Applications



Metalli
Metals



PUNTE PER TRACCIARE
CON RIPORTO IN METALLO DURO
Carbide scribers

0314201 MD



L	cod.	€ cad/each
200	0314201	**7,364**

0314202 MD



L	cod.	€ cad/each
150	0314202	**5,823**

PUNTERUOLO
Punch

41001 C.V.



L	cod.	€ cad/each
78	4100101	**3,650**





UTENSILI A FILETTARE: MASCHI A MACCHINA

THREADING TOOLS: MACHINE TAPS

VISIONE D'INSIEME: MASCHI A MACCHINA
Overview: machine taps

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	FILETTATURA *THREAD*	FORO PASSANTE/CIECO *BLIND OR TROUGHT HOLES*	SPIRALE *SPIRAL*	SPECIALITÀ *FEATURES*		DIAMETRO FORO *HOLE DIAMETER*	NORMA *STANDARD*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	ACCIAO <1200 N/mm *STEEL <1200 N/mm*	ACCIAO <900 N/mm *STEEL <900 N/mm*	ACCIAO <700 N/mm *ACCIAO <700 N/mm*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM/ALLOYS*	R≤N/mm²	COD.	
HSS Co	TiAlN	M		-	-		3÷10	371/B		●	●	●	●	◐	●	1300	10400	244
	TiAlN			-	-		12÷24	376/B		●	●	●	●	◐	●	1300	10401	244
	TiAlN			35°	-		3÷10	371/C-35°		●	●	●	●	●	●	1300	10404	245
	TiAlN			35°	-		12÷24	376/C-35°		●	●	●	●	●	●	1300	10405	245
	TiN			-	-		3÷10	371/B		●	◐	●	●	◐	●	1200	10350	246
	TiN			-	-		12÷23	376/B		●	◐	●	●	◐	●	1200	10351	246
	TiN			35°	-		3÷10	371/C-35°		●	◐	●	●	●	●	1200	10354	247
	TiN			35°	-		12÷24	376/C-35°		●	◐	●	●	●	●	1200	10355	247
	TiN			-	CON ANELLO COLORATO	UNIVERSALE *UNIVERSAL*	2÷10 12÷20	371/B 376/B		●	◐	●	●	◐	●	1200	10362	248
	TiN			40°			2÷10	371/C-40°		●	◐	●	●	●	●	1200	10363	248
				-			3÷10 12÷20	371/B 376/B		●		●	●	◐	◐	850	10515	249
	-			40°			3÷10 12÷20	371/C-40° 376/C-40°		●		●	●	●	●	850	10516	250
	-			-		INOX *STAINLESS STEEL*	3÷10	371/B		●		●	●	◐	◐	850	10504	251
	-			-			12÷20	376/B		●		●	●	◐	◐	850	10505	251
	-			40°			3÷10	371C-40°		●		●	●	●	●	850	10506	252
	-			40°			12÷20	376C-40°		●		●	●	●	●	850	10507	252
	-			-		ACCIAI DURI *HIGH-STRENGTH STEEL*	3÷10	371/B		●	●	●	●	◐	◐	1200	10500	253
	-			-			12÷20	376/B		●	●	●	●	◐	◐	1200	10501	253
	-			40°			3÷10	371C-40°		●	●	●	●	●	●	1200	10502	254
	-			40°			12÷20	376C-40°		●	●	●	●	●	●	1200	10503	254
	-			-			4÷10	371/A		●	●	●	●	●	◐	1200	10510	255
	-			40°		ALLUMINIO *ALUMINIUM*	3÷10	371/C-40°		●		●	●	●	●	850	10511	256
	-			40°			12÷16	376/C-40°		●		●	●	●	●	850	10512	256
	-			-		GHISA *CAST IRON*	3÷10	371/C		●		●	●	●	◐	850	10508	257
	-			-			12÷20	376/C		●		●	●	●	◐	850	10509	257
	-			-		OTTONE *BRASS*	3÷10	371/C		●		●	●	●	◐	850	10513	258
	-			-			12÷16	376/C		●		●	●	●	◐	850	10514	258

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	FILETTATURA *THREAD*	FORO PASSANTE/CIECO *BLIND OR TROUGHT HOLES*	SPIRALE *SPIRAL*	SPECIALITÀ *FEATURES*	DIAMETRO FORO *HOLE DIAMETER*	NORMA *STANDARD*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	ACCIAO <1200 N/mm *STEEL <1200 N/mm*	ACCIAO <900 N/mm *STEEL <900 N/mm*	ACCIAO <700 N/mm *ACCIAO <700 N/mm*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM/ALLOYS*	R≤N/mm²	COD.	
HSS Co	VAPO	M		-	-	3÷10	371/B		●		●	●	●	●	900	10297	259
	VAPO			-	-	12÷20	376/B		●		●	●	●	●	900	10298	259
	VAPO			35°	-	3÷10	371/C-35°		●		●	●	●	●	900	10299	260
	VAPO			35°	-	12÷20	376/C-35°		●		●	●	●	●	900	10300	260
	-			-	-	1÷10	371/B		●		●	●	●	●	850	10250	261
	-			-	-	3÷68	376/B		●		●	●	●	●	850	10253	261
	-			-	-	3÷10	371/C		●		●	●	●	●	850	10251	262
	-			-	-	3÷42	376/C		●		●	●	●	●	850	10254	262
	-			15°	-	3÷10	371/C-15°		●		●	●	●	●	850	10256	263
	-			15°	-	3÷24	376/C-15°		●		●	●	●	●	850	10258	263
	-			35°	-	3÷10	371/C-35°		●		●	●	●	●	850	10255	264
	-			35°	-	3÷42	376/C-35°		●		●	●	●	●	850	10257	264
	-			-	LUNGHI *LONG*	3÷12	371/B		●	●	●	●	●	●	850	10291	265
	-			35°		3÷12	371/C-35°		●	●	●	●	●	●	850	10292	265
HM	-			-	CON CANALINE *INTERNAL COOLING*	3÷10	371/C		●	●	●	●	●	●	1300	10340	266
HSS Co	-	M		40°	CON CANALINE *INTERNAL COOLING*	5÷10	371/C-40°		●	●	●	●	●	●	850	10330	266
	-			-	ALTERNATI *INTERRUPTED THREADS*	3÷10	371/B		●		●	●	●	●	850	10261	267
	-			-		12÷30	376/B		●		●	●	●	●	850	10262	267
	-			-	SINISTRI *LEFT HAND*	3÷10	371/B		●		●	●	●	●	850	10277	268
	-			-		12÷30	376/B		●		●	●	●	●	850	10278	268
	-			-		3÷10	371/C		●		●	●	●	●	850	10263	269
	-			-		12÷24	376/C		●		●	●	●	●	850	10264	269
	-			35°		3÷10	371/C-35°		●		●	●	●	●	850	10279	270
	-			35°		12÷30	376/C-35°		●		●	●	●	●	850	10288	270
	-		-	-	A RULLARE PER LAMIERE *COLD FORMING FOR SHEETS*	3÷16	2174		●		●	●	●	●	850	10280	271
	TiN		-	-		3÷16	2174		●	●	●	●	●	●	1200	10360	271
	-		-	-		3÷16	2174		●		●	●	●	●	850	10281	272
	TiN		-	-		3÷16	2174		●	●	●	●	●	●	1200	10361	272

VISIONE D'INSIEME: MASCHI A MACCHINA
Overview: machine taps

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	FILETTATURA *THREAD*	FORO PASSANTE/CIECO *BLIND OR TROUGHT HOLES*	SPIRALE *SPIRAL*	SPECIALITÀ *FEATURES*	DIAMETRO FORO *HIOLE DIAMETER*	NORMA *STANDARD*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	ACCIAO <1200 N/mm *STEEL <1200 N/mm*	ACCIAO <900 N/mm *STEEL <900 N/mm*	ACCIAO <700 N/mm *ACCIAO <700 N/mm*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM/ALLOYS*	R≤N/mm²	COD.	
HSS Co	-	M		-	SOVRADIM. 6g *OVERSIZE 6g*	3÷10 12	371/B 376/B		●		●	●	●	●	850	10310	273
	-			35°		3÷10	371/C-35°		●		●	●	●	●	850	10313	273
	-			-	SOVRADIM. 7g *OVERSIZE 7g*	3÷10 12	371/B 376/B		●		●	●	●	●	850	10311	274
	-			35°		3÷10 12	371/C-35° 376/C-35°		●		●	●	●	●	850	10314	274
	-			-	SOVRADIM. +0,1mm *OVERSIZE +0,1 mm*	3÷10 12	371/B 376/B		●	●	●	●	●	●	850	10312	275
	-			35°		3÷10 12	371/C-35° 376/C-35°		●	●	●	●	●	●	850	10315	275
	-			-	PER DADI *FOR NUTS*	3÷24	357		●		●	●	●	●	850	10273	276
	-			-	PUNTA MASCHIO *COMBINED*	3÷12	357		●	●	●	●	●	●	850	10290	276
	-	MF		-	-	3÷42	374/B		●	●	●	●	●	●	850	10259	277
	-			-	-	4÷42	374/C		●	●	●	●	●	●	850	10252	278
	-			35°	-	3÷42	374/C-35°		●	●	●	●	●	●	850	10260	279
	-			-	SINISTRI *LEFT HAND*	4÷52	374/B		●		●	●	●	●	850	10286	280
	-			35°		4÷52	374/C-35°		●		●	●	●	●	850	10287	281
	-	BSP		-	-	1"÷2"	5156/B		●		●	●	●	●	850	10268	282
	-			-	-	1/8÷2"	5156/C		●		●	●	●	●	850	10276	282
	-			35°	-	1"÷2"	5156C-35°		●		●	●	●	●	850	10267	283
	-			-	SINISTRI *LEFT HAND*	1/8÷1"	5156/C		●		●	●	●	●	850	10289	283
	-	BSPT		-	CONICO 1:16 *TAPER 1:16*	1/8÷1"	-		●	●	●	●	●	●	850	10294	284
	-	BSW		-	-	1/8÷3/8	371/B		●	●	●	●	●	●	850	10265	285
	-			-	-	7/16÷ 1.1/2	376/B		●	●	●	●	●	●	850	10266	285
	-			35°	-	1/8÷3/8	371C-35°		●	●	●	●	●	●	850	10274	286
	-			35°	-	7/16÷ 1.1/2	376C-35°		●	●	●	●	●	●	850	10275	286
	-	NPT		-	CONICO 1:16 *TAPER 1:16*	1/8÷1"	-		●		●	●	●	●	850	10293	287
	-	NPS		-	CORTI *SHORT*	1/19÷1"	-		●		●	●	●	●	850	10308	288
	-			35°		1/16÷1"	-		●		●	●	●	●	850	10309	288
	-	NPTF		-	CONICO 1:16 *TAPER 1:16*	1/16÷1"	-		●		●	●	●	●	850	10306	289
	-			35°		1/8÷1"	-		●		●	●	●	●	850	10307	289

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	FILETTATURA *THREAD*	FORO PASSANTE/CIECO *BLIND OR TROUGHT HOLES*	SPIRALE *SPIRAL*	SPECIALITÀ *FEATURES*	DIAMETRO FORO *HIOLE DIAMETER*	NORMA *STANDARD*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	ACCIAO <1200 N/mm *STEEL <1200 N/mm*	ACCIAO <900 N/mm *STEEL <900 N/mm*	ACCIAO <700 N/mm *ACCIAO <700 N/mm*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM/ALLOYS*	R≤N/mm²	COD.	
HSS Co	-	8-UN		-	-	1.1/8÷ 2.1/2	529-2B		●		●	●	●	●	850	10301	290
	-	UNC		-	-	6÷3/8	ANSI B1.1		●		●	●	●	●	850	10269	291
	-			-	-	7/16÷ 1.1/2	ANSI B1.1		●		●	●	●	●	850	10270	291
	-			35°	-	6÷3/8	ANSI B1.1		●		●	●	●	●	850	10271	292
	-			35°	-	7/16÷ 1.1/2	ANSI B1.1		●		●	●	●	●	850	10272	292
	-	UNF		-	-	6÷3/8	ANSI B1.1		●		●	●	●	●	850	10282	293
	-			-	-	7/16÷ 1.1/2	ANSI B1.1		●		●	●	●	●	850	10283	293
	-			35°	-	6÷3/8	ANSI B1.1		●		●	●	●	●	850	10284	294
	-			35°	-	7/16÷ 1.1/2	ANSI B1.1		●		●	●	●	●	850	10285	294
	-	UNEF		-	-	1/4÷2"	529		●		●	●	●	●	850	10305	295
HSS-G	-	M		-	-	3÷10	371/B					●		●	700	10162	296
	-			-	-	3÷42	376/B					●		●	700	10165	296
	-			-	-	2÷10	371/C					●	●	●	700	10168	297
	-			-	-	3÷42	376/C					●	●	●	700	10171	297
	-			15°	-	3÷10	371/C-15°					●	●	●	700	10174	298
	-			15°	-	3÷24	376/C-15°					●	●	●	700	10177	298
	-			35°	-	2÷10	371/C-35°					●	●	●	700	10183	299
	-			35°	-	3÷42	376/C-35°					●	●	●	700	10180	299
	-			-	CORTI *SHORT*	2÷12	529/B					●		●	700	10172	300
	-			35°		2,5÷12	529/C-35°					●	●	●	700	10173	300
	TiN				UTENSILE COMBINATO **ATTACCO 1/4"** *COMBINED 1/4" SHANK*	3÷10						●	●	●	1200	10230	301
	-					3÷10						●	●	●	600	10212	301
	-				ATTACCO 1/4" *1/4" SHANK*	3÷10						●	●	●	700	10210	302
	-	MF		15°		4÷24	374/C-15°					●	●	●	700	10198	302
	-	BSP		15°		1/8÷1"	374/C-15°					●	●	●	700	10204	303
	-	BSPT		-	CONICO 1:16 *TAPER 1:16*	1"÷2"						●	●	●	700	10139	303
	-	NPT		-		1"÷2"	ANSI B2.1					●	●	●	700	10134	303

MASCHI A MACCHINA AL COBALTO RIVESTITI AL TiAlN, FILETTATURA METRICA ISO A PASSO GROSSO
HSS-CO TiAlN coated machine taps

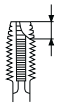
10400 HSS-CO TiAlN DIN 371/B

M



HSS-CO+TiAlN
HV 0,05=3000
T° Max.: 800°C

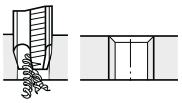
FORM B



4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1040003X05	**32,439**
	4 x 0,7	13	63	4,5	1	1040004X07	**32,439**
	5 x 0,8	16	70	6	1	1040005X08	**32,439**
	6 x 1	19	80	6	1	1040006X1	**34,552**
	8 x 1,25	22	90	8	1	1040008X125	**40,901**
	10 x 1,5	24	100	10	1	1040010X15	**44,317**





Art. 10450300
€ 251,026

7 pcs
M 3÷12

R ≤ 1400 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

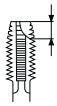
10401 HSS-CO TiAlN DIN 376/B

M



HSS-CO+TiAlN
HV 0,05=3000
T° Max.: 800°C

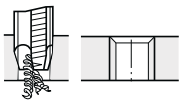
FORM B



4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9	1	1040112X175	**58,346**
	14 x 2	30	110	11	1	1040114X2	**74,527**
	16 x 2	30	110	12	1	1040116X2	**83,927**
	18 x 2,5	34	125	14	1	1040118X25	**100,134**
	20 x 2,5	34	140	16	1	1040120X25	**122,690**
	22 x 2,5	34	140	18	1	1040122X25	**138,205**
	24 x 3	38	160	18	1	1040124X3	**160,763**



R ≤ 1400 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

MASCHI A MACCHINA AL COBALTO RIVESTITI AL TiAlN, FILETTATURA METRICA ISO A PASSO GROSSO
HSS-CO TiAlN coated machine taps

10404 HSS-CO TiAlN DIN 371/C-35° M

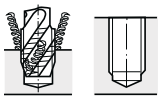
HSS-CO+TiAlN
HV 0,05=3000
T° Max.: 800°C

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	3,5	1	1040403X05	**38,776**
	4 x 0,7	7	63	4,5	1	1040404X07	**38,776**
	5 x 0,8	8	70	6	1	1040405X08	**40,329**
	6 x 1	10	80	6	1	1040406X1	**41,045**
	8 x 1,25	14	90	8	1	1040408X125	**50,771**
	10 x 1,5	16	100	10	1	1040410X15	**55,634**





Art. 10450305
€ 280,635
7 pcs
M 3÷12

R ≤ 1400 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

10405 HSS-CO TiAlN DIN 376/C-35° M

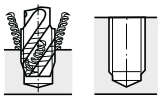
HSS-CO+TiAlN
HV 0,05=3000
T° Max.: 800°C

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	9	1	1040512X175	**69,912**
	14 x 2	20	110	11	1	1040514X2	**87,565**
	16 x 2	22	110	12	1	1040516X2	**98,661**
	18 x 2,5	25	125	14	1	1040518X25	**117,266**
	20 x 2,5	25	140	16	1	1040520X25	**142,430**
	22 x 2,5	25	140	18	1	1040522X25	**160,763**
	24 x 3	30	160	18	1	1040524X3	**184,738**



R ≤ 1400 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

MASCHI A MACCHINA AL COBALTO RIVESTITI AL TiN, FILETTATURA METRICA ISO A PASSO GROSSO
HSS-CO TiN coated machine taps, metric thread

10350 HSS-CO TiN DIN 371/B

M

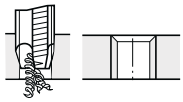
HSS-CO+TiN
HV 0,05=2500

FORM B

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1035003X05	**29,609**
	4 x 0,7	13	63	4,5	1	1035004X07	**26,508**
	5 x 0,8	16	70	6	1	1035005X08	**29,401**
	6 x 1	19	80	6	1	1035006X1	**30,560**
	8 x 1,25	22	90	8	1	1035008X125	**39,115**
	10 x 1,5	24	100	10	1	1035010X15	**42,376**



Alto rendimento nella filettatura in acciai ad elevata resistenza sino a R≤1200 N/mm², quali acciai da bonifica alto legati, acciai inox, acciai resistenti agli acidi, acciai refrattari. Temperatura max. di lavoro 550°.

High performances in high strength steel R≤1200 N/mm², stainless steel, acid resistant steel, high alloy construction steel.

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*



Art. 10390300
€ 218,587
7 pcs
M 3÷12

10351 HSS-CO TiN DIN 376/B

M

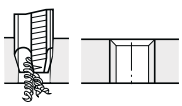
HSS-CO+TiN
HV 0,05=2500

FORM B

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9	1	1035112X175	**50,693**
	14 x 2	30	110	11	1	1035114X2	**64,462**
	16 x 2	30	110	12	1	1035116X2	**73,157**
	18 x 2,5	34	125	14	1	1035118X25	**89,377**
	20 x 2,5	34	140	16	1	1035120X25	**106,914**
	22 x 2,5	34	140	18	1	1035122X25	**117,043**
	24 x 3	38	160	18	1	1035124X3	**141,023**



Alto rendimento nella filettatura in acciai ad elevata resistenza sino a R≤1200 N/mm², quali acciai da bonifica alto legati, acciai inox, acciai resistenti agli acidi, acciai refrattari. Temperatura max. di lavoro 550°.

High performances in high strength steel R≤1200 N/mm², stainless steel, acid resistant steel, high alloy construction steel.

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

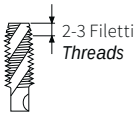
MASCHI A MACCHINA AL COBALTO RIVESTITI AL TiN, FILETTATURA METRICA ISO A PASSO GROSSO
HSS-CO TiN coated machine taps, metric thread

10354 HSS-CO TiN DIN 371/C - 35°

M

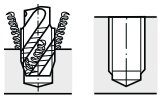
HSS-CO+TiN

FORM C





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	3,5	1	1035403X05	**35,047**
	4 x 0,7	7	63	4,5	1	1035404X07	**35,047**
	5 x 0,8	8	70	6	1	1035405X08	**33,378**
	6 x 1	10	80	6	1	1035406X1	**34,512**
	8 x 1,25	14	90	8	1	1035408X125	**44,930**
	10 x 1,5	16	100	10	1	1035410X15	**50,001**



Alto rendimento nella filettatura in acciai ad elevata resistenza sino a R≤1200 N/mm², quali acciai da bonifica alto legati, acciai inox, acciai resistenti agli acidi, acciai refrattari. Temperatura max. di lavoro 550°.

High performances in high strength steel R≤1200 N/mm², stainless steel, acid resistant steel, high alloy construction steel.

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Olio *Oil*

Metalli *Metals* · Alluminio *Aluminum*



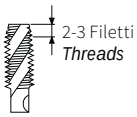
Art. 10390305
€ 253,841
7 pcs
M 3÷12

10355 HSS-CO TiN DIN 376/C - 35°

M

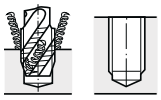
HSS-CO+TiN

FORM C





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	9	1	1035512X175	**61,227**
	14 x 2	20	110	11	1	1035514X2	**76,105**
	16 x 2	22	110	12	1	1035516X2	**86,274**
	18 x 2,5	25	125	14	1	1035518X25	**104,761**
	20 x 2,5	25	140	16	1	1035520X25	**124,386**
	22 x 2,5	25	140	18	1	1035522X25	**143,837**
	24 x 3	30	160	18	1	1035524X3	**160,763**



Alto rendimento nella filettatura in acciai ad elevata resistenza sino a R≤1200 N/mm², quali acciai da bonifica alto legati, acciai inox, acciai resistenti agli acidi, acciai refrattari. Temperatura max. di lavoro 550°.

High performances in high strength steel R≤1200 N/mm², stainless steel, acid resistant steel, high alloy construction steel.

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Olio *Oil*

Metalli *Metals* · Alluminio *Aluminum*

MASCHI A MACCHINA AL COBALTO CON ANELLO VERDE UNIVERSALI, FILETTATURA METRICA ISO A PASSO GROSSO

Universal machine taps, metric thread

10362 HSS-CO TiN PM M

HSS-CO (PM) + TiN
HV 0,05=2500

FORM B

4-5 Filetti *Threads*



R ≤ 1200 N/mm²

Applicazioni *Applications*

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

DIN 371/B ISO 2/6H

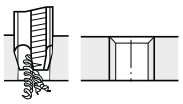
	Ø	l	L	d	pcs	cod.	€ cad/each
M	**2** x 0,4	8	45	2,8	1	1036202X04	**31,629**
	3 x 0,5	11	56	3,5	1	1036203X05	**39,380**
	4 x 0,7	13	63	4,5	1	1036204X07	**39,380**
	5 x 0,8	16	70	6	1	1036205X08	**40,322**
	6 x 1	19	80	6	1	1036206X1	**48,123**
	8 x 1,25	22	90	8	1	1036208X125	**53,883**
	10 x 1,5	24	100	10	1	1036210X15	**71,007**



Art. 10390320
€ 398,841
7 pcs
M 3÷12

DIN 376/B ISO 2/6H

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	9	1	1036212X175	**84,726**
	14 x 2	20	110	11	1	1036214X2	**128,296**
	16 x 2	22	110	12	1	1036216X2	**128,296**
	18 x 2,5	25	125	14	1	1036218X25	**208,517**
	20 x 2,5	25	140	16	1	1036220X25	**215,324**



≤ 3 Ø

Metallurgia delle polveri

L'acciaio superrapido, derivato dal processo di metallurgia delle polveri, offre prestazioni eccezionali: presenta una elevata durezza a caldo e una elevata tenacità, garantita dall'alto contenuto di elementi di lega e dalla microstruttura fortemente omogenea. Gli utensili prodotti con la metallurgia delle polveri (Powder Metallurgy) hanno una durata più elevata ed un rendimento più alto, oltre che una finitura superficiale ottima, che agevola lo scorrimento dei trucioli di lavorazione lontano dalla zona di taglio.

Powder metallurgy

HSS made by powder metallurgy has excellent performances: its homogeneous structure assures high toughness and high resistance. The finishing of the tools are really smooth, so the chip can easily be evacuated far from the cutting zone, thus avoiding built-up edge growth.

10363 HSS-CO TiN DIN 371/C-40° ISO 2/6H M

HSS-CO + TiN

FORM C

2-3 Filetti *Threads*

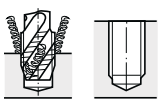


R ≤ 1200 N/mm²

Applicazioni *Applications*

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**2** x 0,4	6	45	2,8	1	1036302X04	**29,324**
	3 x 0,5	6	56	3,5	1	1036303X05	**33,932**
	4 x 0,7	7	63	4,5	1	1036304X07	**36,183**
	5 x 0,8	8	70	6	1	1036305X08	**36,655**
	6 x 1	10	80	6	1	1036306X1	**45,818**
	8 x 1,25	14	90	8	1	1036308X125	**49,327**
	10 x 1,5	16	100	10	1	1036310X15	**63,048**



≤ 3 Ø

MASCHI A MACCHINA AL COBALTO CON ANELLO VERDE, FILETTATURA METRICA ISO A PASSO GROSSO
Universal machine taps, metric thread

10515 HSS-CO VAPO DIN 371/B ISO 2/6H

M

HSS-CO
HV 820÷850

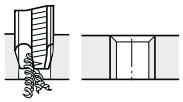
FORM B

4-5 Filetti
Threads



R ≤ 900 N/mm²

	VAPO Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1051503X05	**23,838**
	4 x 0,7	13	63	4,5	1	1051504X07	**24,234**
	5 x 0,8	16	70	6,0	1	1051505X08	**24,234**
	6 x 1	19	80	6,0	1	1051506X1	**24,678**
	8 x 1,25	22	90	8,0	1	1051508X125	**28,586**
	10 x 1,5	24	100	10,0	1	1051510X15	**34,173**





Art. 10520307
€ 230,182
7 pcs
M 3÷12

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

HSS-CO VAPO DIN 376/B ISO 2/6H

M

HSS-CO
HV 820÷850

FORM B

4-5 Filetti
Threads



R ≤ 900 N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9,0	1	1051512X175	**43,273**
	14 x 2	30	110	11,0	1	1051514X2	**63,846**
	16 x 2	30	110	12,0	1	1051516X2	**63,846**
	20 x 2,5	34	140	16,0	1	1051520X25	**101,680**



Finitura: Ossidazione in vapore di Fe_3O_4 che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe_3O_4, increasing surface hardness and wear resistance.

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

I maschi con anello verde hanno un alto rendimento nella filettatura di acciai con resistenza R<900 N/mm², materiali mediamente abrasivi, alluminio e sue leghe, acciai in genere e ghise. Il trattamento superficiale di vaporizzazione aumenta la durezza superficiale e la resistenza a usura del maschio.

Green ring machine taps are useful when threading steel with R<900 N/mm², light abrasive materials, aluminium and its alloys, general steels and cast iron. The steam tempering of the tap increases hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO VERDE, FILETTATURA METRICA ISO A PASSO GROSSO
Universal machine taps, metric thread

10516 HSS-CO VAPO DIN 371/C-40° ISO 2/6H

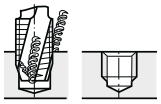
M

HSS-CO
HV 820÷850

FORM C
2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	3,5	1	1051603X05	**25,123**
	4 x 0,7	7	63	4,5	1	1051604X07	**25,123**
	5 x 0,8	8	70	6,0	1	1051605X08	**26,409**
	6 x 1	10	80	6,0	1	1051606X1	**27,250**
	8 x 1,25	14	90	8,0	1	1051608X125	**32,047**
	10 x 1,5	16	100	10,0	1	1051610X15	**36,795**


≤ 3 Ø

R ≤ 900 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Alluminio *Aluminum*
Olio *Oil*

HSS-CO VAPO DIN 376/C-40° ISO 2/6H

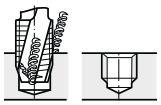
M

HSS-CO
HV 820÷850

FORM C
2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	18,5	110	9,0	1	1051612X175	**41,987**
	16 x 2	20	110	12,0	1	1051616X2	**61,720**
	20 x 2,5	25	140	16,0	1	1051620X25	**93,077**


≤ 3 Ø

Finitura: Ossidazione in vapore di Fe_3O_4 che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe_3O_4, increasing surface hardness and wear resistance.

R ≤ 900 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Alluminio *Aluminum*
Olio *Oil*

I maschi con anello verde hanno un alto rendimento nella filettatura di acciai con resistenza R<900 N/mm², materiali mediamente abrasivi, alluminio e sue leghe, acciai in genere e ghise. Il trattamento superficiale di vaporizzazione aumenta la durezza superficiale e la resistenza a usura del maschio.

Green ring machine taps are useful when threading steel with R<900 N/mm², light abrasive materials, aluminium and its alloys, general steels and cast iron. The steam tempering of the tap increases hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO BIANCO, FILETTATURA METRICA ISO A PASSO GROSSO
White ring machine taps, metric thread

10504 HSS-CO VAPO DIN 371/B

M

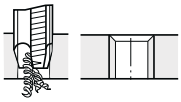
HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1050403X05	**25,716**
	4 x 0,7	13	63	4,5	1	1050404X07	**25,716**
	5 x 0,8	16	70	6,0	1	1050405X08	**27,662**
	6 x 1	19	80	6,0	1	1050406X1	**27,662**
	8 x 1,25	22	90	8,0	1	1050408X125	**31,871**
	10 x 1,5	24	100	10,0	1	1050410X15	**38,577**





Art. 10520300
€ 203,075

7 pcs
M 3÷12

R ≤ 1000 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10505 HSS-CO VAPO DIN 376/B

M

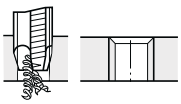
HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9,0	1	1050512X175	**46,397**
	14 x 2	30	110	11,0	1	1050514X2	**59,532**
	16 x 2	30	110	12,0	1	1050516X2	**67,628**
	18 x 2,5	34	125	14,0	1	1050518X25	**111,353**
	20 x 2,5	34	140	16,0	1	1050520X25	**155,628**



R ≤ 1000 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

Per filettature in acciaio inox, acciai per utensili, acciai resistenti al calore, acciai legati in genere, bronzo a truciolo lungo, rame con R≤1000 N/mm²

For making threads in stainless steel, heat resistant steel, structural steel, long chipping bronze, copper with R≤1000 N/mm²

Finitura: Ossidazione in vapore di Fe_3O_4 che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe_3O_4, increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO BIANCO, FILETTATURA METRICA ISO A PASSO GROSSO
White ring machine taps, metric thread

10506 HSS-CO VAPO DIN 371/C-40° M

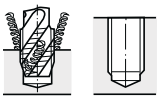
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti *Threads*



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	3,5	1	1050603X05	**32,784**
	4 x 0,7	7	63	4,5	1	1050604X07	**32,784**
	5 x 0,8	8	70	6,0	1	1050605X08	**35,110**
	6 x 1	10	80	6,0	1	1050606X1	**34,763**
	8 x 1,25	14	90	8,0	1	1050608X125	**40,675**
	10 x 1,5	16	100	10,0	1	1050610X15	**48,521**





Art. 10520301
€ 251,304
7 pcs
M 3÷12

R ≤ 1000 N/mm²

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Olio *Oil*
Metalli *Metals* · Alluminio *Aluminum*

10507 HSS-CO VAPO DIN 376/C-40° M

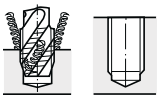
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti *Threads*



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	9,0	1	1050712X175	**63,125**
	14 x 2	20	110	11,0	1	1050714X2	**79,990**
	16 x 2	22	110	12,0	1	1050716X2	**97,334**
	18 x 2,5	25	125	14,0	1	1050718X25	**146,202**
	20 x 2,5	25	140	16,0	1	1050720X25	**202,080**



R ≤ 1000 N/mm²

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Olio *Oil*
Metalli *Metals* · Alluminio *Aluminum*

Per filettature in acciaio inox, acciai per utensili, acciai resistenti al calore, acciai legati in genere, bronzo a truciolo lungo, rame con R≤1000 N/mm²

For making threads in stainless steel, heat resistant steel, structural steel, long chipping bronze, copper with R≤1000 N/mm²

Finitura: Ossidazione in vapore di Fe_3O_4 che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe_3O_4, increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO BLU, FILETTATURA METRICA ISO
Blue ring machine taps, metric thread

10500 HSS-CO DIN 371/B

M

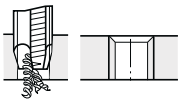
HSS-CO AISI M35
HV 850÷880

FORM B

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1050003X05	**24,080**
	4 x 0,7	13	63	4,5	1	1050004X07	**24,080**
	5 x 0,8	16	70	6,0	1	1050005X08	**26,263**
	6 x 1	19	80	6,0	1	1050006X1	**26,263**
	8 x 1,25	22	90	8,0	1	1050008X125	**30,615**
	10 x 1,5	24	100	10,0	1	1050010X15	**36,095**





Art. 10520302
€ 196,529

7 pcs
M 3÷12

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10501 HSS-CO DIN 376/B

M

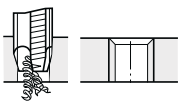
HSS-CO AISI M35
HV 850÷880

FORM B

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9	1	1050112X175	**41,915**
	14 x 2	30	110	11	1	1050114X2	**59,390**
	16 x 2	30	110	12	1	1050116X2	**66,875**
	18 x 2,5	34	125	14	1	1050118X25	**104,538**
	20 x 2,5	34	140	16	1	1050120X25	**145,961**



R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

Per filettatura in acciai resistenti all'usura quali gli acciai refrattari, acciai legati da tempra e cementazione, acciai per utensili con R≤1200 N/mm².

For use in wear resistant steel, heat resistant steel, tool steel with R≤1200 N/mm².

MASCHI A MACCHINA AL COBALTO CON ANELLO BLU, FILETTATURA METRICA ISO
Blue ring machine taps, metric thread

10502 HSS-CO DIN 371/C-40° M

HSS-CO AISI M35
HV 850÷880

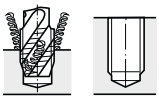
FORM C

2-3 Filetti *Threads*

R ≤ 1200 N/mm²



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	3,5	1	1050203X05	**30,580**
	4 x 0,7	7	63	4,5	1	1050204X07	**30,580**
	5 x 0,8	8	70	6,0	1	1050205X08	**33,948**
	6 x 1	10	80	6,0	1	1050206X1	**35,345**
	8 x 1,25	14	90	8,0	1	1050208X125	**38,605**
	10 x 1,5	16	100	10,0	1	1050210X15	**45,049**





Art. 10520303
€ 244,825

7 pcs
M 3÷12

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

10503 HSS-CO DIN 376/C-40° M

HSS-CO AISI M35
HV 850÷880

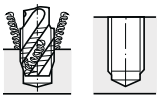
FORM C

2-3 Filetti *Threads*

R ≤ 1200 N/mm²



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	9	1	1050312X175	**53,955**
	14 x 2	20	110	11	1	1050314X2	**68,341**
	16 x 2	22	110	12	1	1050316X2	**83,150**
	18 x 2,5	25	125	14	1	1050318X25	**114,882**
	20 x 2,5	25	140	16	1	1050320X25	**164,180**



Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

Per filettatura in acciai resistenti all'usura quali gli acciai refrattari, acciai legati da tempra e cementazione, acciai per utensili con R≤1000 N/mm².

For use in wear resistant steel, heat resistant steel, tool steel with R≤1000 N/mm².

MASCHI A MACCHINA AL COBALTO CON ANELLO ROSSO, FILETTATURA METRICA ISO
Red ring machine taps, metric thread

10510 **HSS-CO** **DIN 371/A** **M**

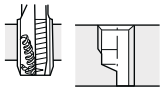
HSS-CO AISI M35
HV 820÷850

FORM A

5-6 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**4** x 0,7	9	63	4,5	1	1051004X07	**29,536**
	5 x 0,8	11	70	6	1	1051005X08	**32,810**
	6 x 1	12	80	6	1	1051006X1	**32,810**
	8 x 1,25	15	90	8	1	1051008X125	**36,095**
	10 x 1,5	16	100	10	1	1051010X15	**42,655**





Art. 10520310
€ 164,492

5 pcs
M 4÷10

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless*

Acciaio *Steel*

Metalli *Metals*

Olio *Oil*

Per filettatura in acciai resistenti all'usura quali gli acciai refrattari, acciai legati da tempra e cementazione, acciai per utensili con R ≤ 1200 N/mm². Imbocco FORM A.

For use in wear resistant steel, heat resistant steel, tool steel with R ≤ 1200 N/mm². FORM A.

MASCHI A MACCHINA AL COBALTO CON ANELLO GIALLO, FILETTATURA METRICA ISO

Yellow ring machine taps, metric thread

10511 HSS-CO DIN 371/C-40° M

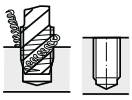
HSS-CO AISI M35
HV 820÷850

2 SPIRALI
2 FLUTES

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	3,5	1	1051103x05	**39,509**
	4 x 0,7	7	63	4,5	1	1051104x07	**39,509**
	5 x 0,8	8	70	6	1	1051105x08	**42,748**
	6 x 1	10	80	6	1	1051106x1	**42,748**
	8 x 1,25	14	90	8	1	1051108x125	**49,120**
	10 x 1,5	16	100	10	1	1051110x15	**59,506**





Art. 10520305
€ 269,071

7 pcs
M 3÷12

R ≤ 850 N/mm²

Applicazioni
Applications

Alluminio
Aluminum

Truciolo lungo
Long chip

10512 HSS-CO DIN 376/C-40° M

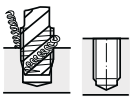
HSS-CO AISI M35
HV 820÷850

2 SPIRALI
2 FLUTES

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	9	1	1051212X175	**79,859**
	14 x 2	20	110	11	1	1051214X2	**104,607**
	16 x 2	22	110	12	1	1051216X2	**118,779**



R ≤ 850 N/mm²

Applicazioni
Applications

Alluminio
Aluminum

Truciolo lungo
Long chip

MASCHI A MACCHINA AL COBALTO CON ANELLO NERO, FILETTATURA METRICA ISO
Black ring machine taps, metric thread

10508 HSS-CO DIN 371/C

M

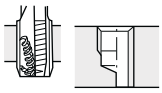
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1050803X05	**21,385**
	4 x 0,7	13	63	4,5	1	1050804X07	**21,385**
	5 x 0,8	16	70	6	1	1050805X08	**23,001**
	6 x 1	19	80	6	1	1050806X1	**23,001**
	8 x 1,25	22	90	8	1	1050808X125	**26,502**
	10 x 1,5	24	100	10	1	1050810X15	**32,626**





Art. 10520304
€ 211,559

7 pcs
M 3÷12

Applicazioni
Applications

Ghisa *Cast Iron*
Alluminio *Aluminum*
Truciolo lungo *Long chip*
Leghe leggere *Light alloys*
Plastica dura *Hard plastic*

Per filettatura in fori ciechi e passanti in ghisa grigia e sferoidale, leghe di magnesio, bronzo e alluminio a truciolo corto, plastica dura.

For making threads into through and blind holes, cast iron, magnesium alloys, bronze and short chip aluminium, hard plastics.

10509 HSS-CO DIN 376/C

M

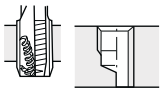
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9	1	1050912X175	**38,581**
	14 x 2	30	110	11	1	1050914X2	**49,503**
	16 x 2	30	110	12	1	1050916X2	**56,235**
	18 x 2,5	34	125	14	1	1050918X25	**77,162**
	20 x 2,5	34	140	16	1	1050920X25	**107,841**



Applicazioni
Applications

Ghisa *Cast Iron*
Alluminio *Aluminum*
Truciolo lungo *Long chip*
Leghe leggere *Light alloys*
Plastica dura *Hard plastic*

Nitrurato / *Nitrited*

L'arricchimento della superficie con nitrato e carbonio diminuisce la tendenza all'incollamento dei trucioli e aumenta la durezza superficiale e la resistenza ad usura.

The surface enrichment with nitrate and carbon is aimed to avoiding chips sticking on the tool and to increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON ANELLO ARANCIO, FILETTATURA METRICA ISO
Orange ring machine taps, metrci thread

10513 HSS-CO DIN 371/C

M

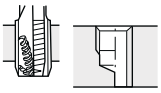
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1051303x05	**28,807**
	4 x 0,7	13	63	4,5	1	1051304x07	**28,807**
	5 x 0,8	16	70	6	1	1051305x08	**31,229**
	6 x 1	19	80	6	1	1051306x1	**31,229**
	8 x 1,25	22	90	8	1	1051308x125	**35,599**
	10 x 1,5	24	100	10	1	1051310x15	**43,049**





Art. 10520306
€ 232,260

5 pcs
M 3÷12

R ≤ 850 N/mm²

Applicazioni
Applications

Ottone
Brass

Truciolo corto
Short chip

10514 HSS-CO DIN 376/C

M

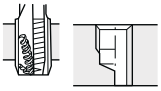
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9	1	1051412X175	**58,072**
	14 x 2	30	110	11	1	1051414X2	**74,264**
	16 x 2	30	110	12	1	1051416X2	**85,103**



R ≤ 850 N/mm²

Applicazioni
Applications

Ottone
Brass

Truciolo corto
Short chip

MASCHI A MACCHINA AL COBALTO CON TRATTAMENTO DI RIVESTIMENTO SUPERFICIALE
Machine taps with coating treatment

10297 HSS-CO VAPO DIN 371/B

M

HSS-CO
HV 820÷850

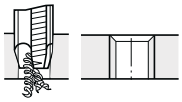
FORM B

4-5 Filetti
Threads



R ≤ 900 N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1029703X05	**19,704**
	4 x 0,7	13	63	4,5	1	1029704X07	**19,704**
	5 x 0,8	16	70	6	1	1029705X08	**20,805**
	6 x 1	19	80	6	1	1029706X1	**20,805**
	8 x 1,25	22	90	8	1	1029708X125	**24,599**
	10 x 1,5	24	100	10	1	1029710X15	**29,428**





Art. 10345315
€ 186,146

7 pcs
M 3÷12

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10298 HSS-CO VAPO DIN 376/B

M

HSS-CO
HV 820÷850

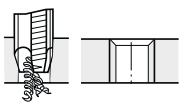
FORM B

4-5 Filetti
Threads



R ≤ 900 N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9	1	1029812X175	**36,841**
	14 x 2	30	110	11	1	1029814X2	**49,981**
	16 x 2	30	110	12	1	1029816X2	**57,935**
	18 x 2,5	34	125	14	1	1029818X25	**92,020**
	20 x 2,5	34	140	16	1	1029820X25	**132,961**



Per acciai con R ≤ 900 N/mm², materiali mediamente abrasivi, ghisa e metalli in genere.

Suitable for steel with R≤ 900 N/mm², quite abrasive materials, cast iron, metals.

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

Finitura: Ossidazione in vapore di Fe_3O_4 che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

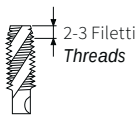
Finish: Steam Tempered of Fe_3O_4, increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO CON TRATTAMENTO DI RIVESTIMENTO SUPERFICIALE
Machine taps with coating treatment

10299 HSS-CO VAPO DIN 371/C - 35° M

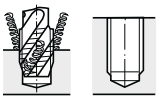
HSS-CO
HV 820÷850

FORM C





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	3,5	1	1029903X05	**28,103**
	4 x 0,7	7	63	4,5	1	1029904X07	**28,103**
	5 x 0,8	8	70	6	1	1029905X08	**29,203**
	6 x 1	10	80	6	1	1029906X1	**29,203**
	8 x 1,25	14	90	8	1	1029908X125	**35,071**
	10 x 1,5	16	100	10	1	1029910X15	**40,927**





Art. 10345316
€ 228,455

7 pcs
M 3÷12

R ≤ 900 N/mm²

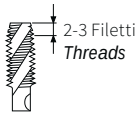
Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

10300 HSS-CO VAPO VAPO DIN 376/C - 35° M

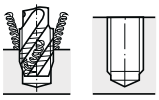
HSS-CO
HV 820÷850

FORM C





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	9	1	1030012X175	**50,324**
	14 x 2	20	110	11	1	1030014X2	**64,374**
	16 x 2	22	110	12	1	1030016X2	**69,029**
	18 x 2,5	25	125	14	1	1030018X25	**108,053**
	20 x 2,5	25	140	16	1	1030020X25	**141,440**



Per acciai con R ≤ 900 N/mm², materiali mediamente abrasivi, ghisa e metalli in genere.

Suitable for steel with R≤ 900 N/mm², quite abrasive materials, cast iron, metals.

R ≤ 900 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

Finitura: Ossidazione in vapore di Fe_3O_4 che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe_3O_4, increasing surface hardness and wear resistance.

MASCHI A MACCHINA AL COBALTO, SCANALATURE DIRITTE, IMB. CORRETTO, FILETTATURA METRICA ISO PASSO GROSSO
Machine taps, spiral point, metric thread

10250 HSS-CO DIN 371/B ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850

FORM B

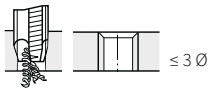
4-5 Filetti
Threads

R ≤ 850 N/mm²



MICRO MACHINE TAPS HSS-CO

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**1** x 0,25	5	40	2,5	1	1025001x025	**63,236**
	1,1 x 0,25	5	40	2,5	1	10250011x025	**63,236**
	1,2 x 0,25	5	40	2,5	1	10250012x025	**63,236**
	1,4 x 0,3	7	40	2,5	1	10250014x030	**56,912**
	1,6 x 0,35	8	40	2,5	1	10250016x035	**56,912**
	1,7 x 0,35	8	40	2,5	1	10250017x035	**56,912**
	1,8 x 0,35	8	40	2,5	1	10250018x035	**56,912**
	2 x 0,4	8	45	2,8	1	1025002x04	**27,823**
	2,5 x 0,45	9	50	2,8	1	10250025x045	**27,823**
	3 x 0,5	11	56	3,5	1	1025003x05	**15,873**
	3,5 x 0,6	13	56	4	1	10250035x06	**22,915**
	4 x 0,7	13	63	4,5	1	1025004x07	**15,873**
	5 x 0,8	16	70	6	1	1025005x08	**16,239**
	6 x 1	19	80	6	1	1025006x1	**17,163**
	7 x 1	19	80	7	1	1025007x1	**22,980**
	8 x 1,25	22	90	8	1	1025008x125	**19,971**
	9 x 1,25	22	90	9	1	1025009x125	**23,258**
	10 x 1,5	24	100	10	1	1025010x15	**23,258**





Art. 10345300
€ 132,559
7 pcs
M 3÷12



Art. 10345306
€ 156,458
14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2

Per fori passanti in acciai con R ≤ 850 N/mm², ghisa, metalli non ferrosi a truciolo lungo.
For through holes in steel with R ≤ 850 N/mm², cast iron, non ferrous metals with long chip

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10253 HSS-CO DIN 376/B ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM B

4-5 Filetti
Threads

R ≤ 850 N/mm²



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	2,2	1	1025303X05	**20,945**
	4 x 0,7	13	63	2,8	1	1025304X07	**21,284**
	5 x 0,8	16	70	3,5	1	1025305X08	**22,082**
	6 x 1	19	80	4,5	1	1025306X1	**22,259**
	8 x 1,25	22	90	6	1	1025308X125	**24,031**
	10 x 1,5	24	100	7	1	1025310X15	**28,012**
	12 x 1,75	29	110	9	1	1025312X175	**30,175**
	14 x 2	30	110	11	1	1025314X2	**41,988**
	16 x 2	30	110	12	1	1025316X2	**49,412**
	18 x 2,5	34	125	14	1	1025318X25	**61,971**
	20 x 2,5	34	140	16	1	1025320X25	**78,094**
	22 x 2,5	34	140	18	1	1025322X25	**98,946**
	24 x 3	38	160	18	1	1025324X3	**111,428**
	27 x 3	38	160	20	1	1025327X3	**170,720**
	30 x 3,5	45	180	22	1	1025330X35	**208,465**
	33 x 3,5	50	180	25	1	1025333X35	**264,283**
	36 x 4	56	200	28	1	1025336X4	**295,470**
	39 x 4	60	200	32	1	1025339X4	**415,503**
	42 x 4,5	60	200	32	1	1025342X45	**442,854**
	45 x 4,5	65	220	36	1	1025345X45	**492,447**
	48 x 5	70	250	36	1	1025348X5	**589,288**
	52 x 5	70	250	40	1	1025352X5	**686,144**
	56 x 5,5	70	250	40	1	1025356X55	**1.520,016**
	60 x 5,5	75	280	45	1	1025360X55	**1.749,834**
	64 x 6	80	315	50	1	1025364X6	**2.147,063**
	68 x 6	80	315	50	1	1025368X6	**2.324,354**

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*



MASCHI A MACCHINA AL COBALTO, SCANALATURE DIRITTE, IMB. “C”, FILETTATURA ISO PASSO GROSSO
Machine taps, “C” chamfer form, metric thread

10251 HSS-CO DIN 371/C ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



R ≤ 850 N/mm²

Applicazioni
Applications

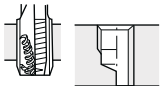
Inox *Stainless*

Acciaio *Steel*

Metalli *Metals*

Olio *Oil*

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**2** x 0,4	8	45	2,8	1	1025102X04	**21,044**
	2,3 x 0,4	9	45	2,8	1	10251023X04	**21,044**
	2,5 x 0,45	9	50	2,8	1	10251025X045	**21,044**
	2,6 x 0,45	9	50	2,8	1	10251026X045	**21,044**
	3 x 0,5	11	56	3,5	1	1025103X05	**15,295**
	3,5 x 0,6	13	56	4	1	10251035X06	**16,363**
	4 x 0,7	13	63	4,5	1	1025104X07	**15,295**
	5 x 0,8	16	70	6	1	1025105X08	**15,295**
	6 x 1	19	80	6	1	1025106X1	**16,299**
	7 x 1	19	80	7	1	1025107X1	**20,326**
	8 x 1,25	22	90	8	1	1025108X125	**18,501**
	10 x 1,5	24	100	10	1	1025110X15	**21,749**



≤ 1,5 Ø

Per fori ciechi e passanti in acciai e ghisa con ≤ 850 N/mm²
For blind and trough holes in steel with ≤ 850 N/mm²

10254 HSS-CO DIN 376/C ISO 2/6 H

M

HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM C

2-3 Filetti
Threads



R ≤ 850 N/mm²

Applicazioni
Applications

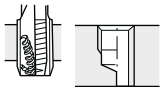
Inox *Stainless*

Acciaio *Steel*

Metalli *Metals*

Olio *Oil*

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	2,2	1	1025403X05	**17,190**
	4 x 0,7	13	63	2,8	1	1025404X07	**17,476**
	5 x 0,8	16	70	3,5	1	1025405X08	**18,101**
	6 x 1	19	80	4,5	1	1025406X1	**18,280**
	8 x 1,25	22	90	6	1	1025408X125	**20,752**
	10 x 1,5	24	100	7	1	1025410X15	**24,205**
	12 x 1,75	29	110	9	1	1025412X175	**29,099**
	14 x 2	30	110	11	1	1025414X2	**36,273**
	16 x 2	32	110	12	1	1025416X2	**42,668**
	18 x 2,5	34	125	14	1	1025418X25	**63,767**
	20 x 2,5	34	140	16	1	1025420X25	**80,796**
	22 x 2,5	34	140	18	1	1025422X25	**101,644**
	24 x 3	38	160	18	1	1025424X3	**110,246**
	27 x 3	38	160	20	1	1025427X3	**145,755**
	30 x 3,5	45	180	22	1	1025430X35	**199,667**
	33 x 3,5	50	180	25	1	1025433X35	**228,867**
	36 x 4	56	200	28	1	1025436X4	**255,324**
	39 x 4	60	200	32	1	1025439X4	**331,612**
	42 x 4,5	60	200	32	1	1025442X45	**370,535**
	45 x 4,5	65	220	36	1	1025445X45	**425,032**
	48 x 5	70	250	36	1	1025448X5	**510,662**
	52 x 5	70	250	40	1	1025452X5	**604,068**



≤ 1,5 Ø

MASCHI A MACCHINA AL COBALTO, SCANALATURE DESTRE 15°, IMB. "C", FILETTATURA METRICA ISO PASSO GROSSO
Machine taps, 15° spiral flute, metric thread

10256 HSS-CO DIN 371/C-15° ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850



FORM C



2-3 Filetti
Threads

R ≤ 850 N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1025603X05	**20,131**
	4 x 0,7	13	63	4,5	1	1025604X07	**20,131**
	5 x 0,8	16	70	6	1	1025605X08	**20,131**
	6 x 1	19	80	6	1	1025606X1	**21,188**
	8 x 1,25	22	90	8	1	1025608X125	**23,157**
	10 x 1,5	24	100	10	1	1025610X15	**27,263**



≤ 1,5 Ø



Art. 10345311
€ 150,891
7 pcs
M 3÷12



Art. 10345312
€ 190,384
14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

Per fori ciechi in acciai con R ≤ 850 N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo.

For blind holes in steel with R ≤ 850 N/mm², malleable cast iron, non ferrous metals with long chip.

10258 HSS-CO DIN 376/C-15° ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850
Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3



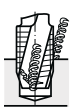
FORM C



2-3 Filetti
Threads

R ≤ 850 N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	2,2	1	1025803X05	**21,122**
	4 x 0,7	13	63	2,8	1	1025804X07	**22,138**
	5 x 0,8	16	70	3,5	1	1025805X08	**22,138**
	6 x 1	19	80	4,5	1	1025806X1	**23,157**
	8 x 1,25	22	90	6	1	1025808X125	**24,773**
	10 x 1,5	24	100	7	1	1025810X15	**31,031**
	12 x 1,75	29	110	9	1	1025812X175	**35,295**
	14 x 2	30	110	11	1	1025814X2	**44,643**
	16 x 2	30	110	12	1	1025816X2	**52,062**
	18 x 2,5	34	125	14	1	1025818X25	**79,409**
	20 x 2,5	34	140	16	1	1025820X25	**84,462**
	22 x 2,5	34	140	18	1	1025822X25	**107,158**
	24 x 3	38	160	18	1	1025824X3	**114,763**



≤ 1,5 Ø

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO, SCANALATURE DESTRE 35°, IMB. "C", FILETTATURA METRICA ISO
Machine taps, 35° spiral flute, metric coarse thread

10255 HSS-CO DIN 371/C-35° ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850



FORM C

2-3 Filetti
Threads

≤ 3 Ø

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MICRO MACHINE TAPS HSS-CO

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**1** x 0,25	4	40	2,5	1	1025501x025	**80,837**
	1,1 x 0,25	4	40	2,5	1	10255011x025	**80,837**
	1,2 x 0,25	4	40	2,5	1	10255012x025	**80,837**
	1,4 x 0,30	5	40	2,5	1	10255014x030	**73,013**
	1,6 x 0,35	6	40	2,5	1	10255016x035	**73,013**
	1,7 x 0,35	6	40	2,5	1	10255017x035	**73,013**
	1,8 x 0,35	6	40	2,5	1	10255018x035	**73,013**
	2 x 0,4	6	45	2,8	1	1025502X04	**33,899**
	2,5 x 0,45	6	50	2,8	1	10255025X045	**33,899**
	3 x 0,5	6	56	3,5	1	1025503X05	**23,755**
	3,5 x 0,6	13	56	4	1	10255035X06	**31,370**
	4 x 0,7	7	63	4,5	1	1025504X07	**23,755**
	5 x 0,8	8	70	6	1	1025505X08	**23,939**
	6 x 1	10	80	6	1	1025506X1	**25,033**
	7 x 1	19	80	7	1	1025507X1	**36,506**
	8 x 1,25	14	90	8	1	1025508X125	**27,420**
	9 x 1,25	14	90	9	1	1025509X125	**32,829**
	10 x 1,5	16	100	10	1	1025510X15	**32,829**



Art. 10345305
€ 163,589
7 pcs
M 3÷12



Art. 10345307
€ 197,426
14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



Art. 10345310
€ 284,859
14 pcs
DIN 371/
B+371/C 35°

10257 HSS-CO DIN 376/C-35° ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850
Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3



FORM C

2-3 Filetti
Threads

≤ 3 Ø

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	5	56	2,2	1	1025703X05	**24,889**
	4 x 0,7	7	63	2,8	1	1025704X07	**26,128**
	5 x 0,8	8	70	3,5	1	1025705X08	**26,128**
	6 x 1	10	80	4,5	1	1025706X1	**26,128**
	8 x 1,25	13	90	6	1	1025708X125	**28,436**
	10 x 1,5	15	100	7	1	1025710X15	**35,530**
	12 x 1,75	18	110	9	1	1025712X175	**41,956**
	14 x 2	20	110	11	1	1025714X2	**53,040**
	16 x 2	22	110	12	1	1025716X2	**64,553**
	18 x 2,5	25	125	14	1	1025718X25	**84,893**
	20 x 2,5	25	140	16	1	1025720X25	**93,997**
	22 x 2,5	25	140	18	1	1025722X25	**115,449**
	24 x 3	30	160	18	1	1025724X3	**125,621**
	27 x 3	30	160	20	1	1025727X3	**185,091**
	30 x 3,5	35	180	22	1	1025730X35	**226,558**
	33 x 3,5	35	180	25	1	1025733X35	**273,941**
	36 x 4	40	200	28	1	1025736X4	**353,543**
	39 x 4	40	200	32	1	1025739X4	**462,203**
	42 x 4,5	45	200	32	1	1025742X45	**527,066**
	45 x 4,5	45	220	36	1	1025745X45	**588,692**
	48 x 5	50	250	36	1	1025748X5	**668,162**
	52 x 5	50	250	40	1	1025752X5	**793,029**
	56 x 5,5	70	250	40	1	1025756X55	**1.732,025**
	60 x 5,5	70	280	45	1	1025760X55	**1.986,640**
	64 x 6	75	315	50	1	1025764X6	**2.443,970**
	68 x 6	75	315	50	1	1025768X6	**2.646,688**

MASCHI A MACCHINA AL COBALTO “LUNGHI”, FILETTATURA METRICA ISO A PASSO GROSSO
Long machine taps, ISO metric coarse threads

10291 HSS-CO ≃ DIN 371/B ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850
Gambo rinforzato
Reinforced shank

FORM B

4-5 Filetti
Threads

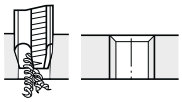
R ≤ 850 N/mm²



Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	100	11	3,5	1	1029103100	**28,544**
	4 x 0,7	100	13	4,5	1	1029104100	**28,544**
	4 x 0,7	120	13	4,5	1	1029104120	**30,323**
	5 x 0,8	100	16	6	1	1029105100	**30,323**
	5 x 0,8	120	16	6	1	1029105120	**32,650**
	5 x 0,8	150	16	6	1	1029105150	**34,867**
	6 x 1	100	19	6	1	1029106100	**30,323**
	6 x 1	120	19	6	1	1029106120	**32,650**
	6 x 1	150	19	6	1	1029106150	**34,867**
	8 x 1,25	120	22	8	1	1029108120	**37,210**
	8 x 1,25	150	22	8	1	1029108150	**43,097**
	10 x 1,5	120	24	10	1	1029110120	**43,097**
	10 x 1,5	150	24	10	1	1029110150	**52,419**
	12 x 1,75	120	29	12	1	1029112120	**49,969**
	12 x 1,75	150	29	12	1	1029112150	**60,101**



10292 HSS-CO ≃ DIN 371/C-35° ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads

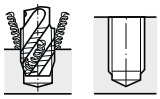
R ≤ 850 N/mm²



Applicazioni
Applications

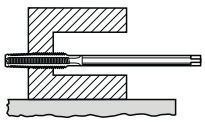
Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	100	6	3,5	1	1029203100	**33,759**
	4 x 0,7	100	7	4,5	1	1029204100	**33,759**
	4 x 0,7	120	7	4,5	1	1029204120	**34,867**
	5 x 0,8	100	8	6	1	1029205100	**36,102**
	5 x 0,8	120	8	6	1	1029205120	**38,427**
	5 x 0,8	150	8	6	1	1029205150	**41,879**
	6 x 1	100	10	6	1	1029206100	**36,102**
	6 x 1	120	10	6	1	1029206120	**38,427**
	6 x 1	150	10	6	1	1029206150	**41,879**
	8 x 1,25	120	14	8	1	1029208120	**44,206**
	8 x 1,25	150	14	8	1	1029208150	**48,862**
	10 x 1,5	120	16	10	1	1029210120	**51,201**
	10 x 1,5	150	16	10	1	1029210150	**59,415**
	12 x 1,75	120	18	12	1	1029212120	**53,392**
	12 x 1,75	150	18	12	1	1029212150	**63,660**



Per maschiature in acciai con R≤850 N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai refrattari, acciai inox.

For threading steel with R≤850 N/mm², malleable cast iron, nonferrous metal with long chips, heat-resistant and refractory steel, stainless steel.



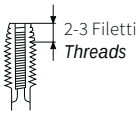
MASCHI A MACCHINA AL COBALTO CON CANALINA DI REFRIGERAZIONE INTERNA, FILETTATURA METRICA ISO A PASSO GROSSO
Machine taps with internal cooling system, ISO metric thread

10340 HM — DIN 371/C ISO 6HX
Hm solid carbide

M

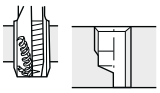
HM
SOLID CARBIDE

FORM C





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	8	56	3,5	1	1034003X05	**167,567**
	4 x 0,7	10	63	4,5	1	1034004X07	**167,567**
	5 x 0,8	10	70	6	1	1034005X08	**145,500**
	6 x 1	12	80	6	1	1034006X1	**197,822**
	8 x 1,25	16	90	8	1	1034008X125	**300,225**
	10 x 1,5	18	100	10	1	1034010X15	**300,225**



R ≤ 1300 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

Altissimo rendimento nella maschiatura di acciai ad alta resistenza sino R≤1300 N/mm², quali acciai inox, acciai resistenti alla corrosione, acciai refrattari, acciai da bonifica alto legati trattati. Temperatura operativa sino a 800°

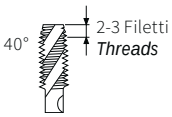
High performances in high strength steel with R≤1300 N/mm², stainless steel, heat resistant steel, high alloy steel.

10330 HSS-CO — DIN 371/C-40° ISO 2/6H

M

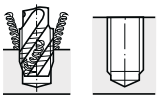
HSS-CO AISI M35
HV 820÷850

FORM C





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**5** x 0,8	8,5	70	6	1	1033005X08	**104,730**
	6 x 1	11	80	6	1	1033006X1	**104,730**
	8 x 1,25	14	90	8	1	1033008X125	**104,730**
	10 x 1,5	16	100	10	1	1033010X15	**148,947**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO, CAVE DIRITTE E FILETTI ALTERNATI, IMB. CORRETTO, FILETTATURA METRICA ISO

Machine taps, straight flutes, interrupted threads, spiral point

10261 HSS-CO DIN 371/B ISO 2/6H

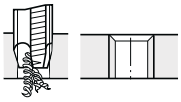
M

HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti
Threads





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1026103X05	22,673
	4 x 0,7	13	63	4,5	1	1026104X07	22,673
	5 x 0,8	16	70	6	1	1026105X08	24,267
	6 x 1	19	80	6	1	1026106X1	24,267
	8 x 1,25	22	90	8	1	1026108X125	29,782
	10 x 1,5	24	100	10	1	1026110X15	35,542

R ≥ 900 N/mm²

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Metalli *Metals* · Alluminio *Aluminum* · Olio *Oil*

10262 HSS-CO DIN 376/B ISO 2/6H

M

HSS-CO AISI M35
HV 820÷850

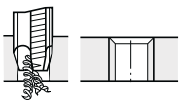
Gambo cilindrico
Ø ≤ M3

Round shank
Ø ≤ M3

FORM B

4-5 Filetti
Threads





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	2,2	1	1026203X05	24,403
	4 x 0,7	13	63	2,8	1	1026204X07	24,403
	5 x 0,8	16	70	3,5	1	1026205X08	25,639
	6 x 1	19	80	4,5	1	1026206X1	25,639
	8 x 1,25	22	90	6	1	1026208X125	30,885
	10 x 1,5	24	100	7	1	1026210X15	40,768
	12 x 1,75	29	110	9	1	1026212X175	47,225
	14 x 2	30	110	11	1	1026214X2	61,154
	18 x 2,5	34	125	14	1	1026218X25	88,328
	20 x 2,5	34	140	16	1	1026220X25	119,520
	22 x 2,5	34	140	18	1	1026222X25	137,437
	24 x 3	38	160	18	1	1026224X3	146,703

R ≥ 900 N/mm²

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Metalli *Metals* · Alluminio *Aluminum* · Olio *Oil*

Maschi con filetto alternato

Il filetto alternato assicura meno attrito e quindi meno resistenza, particolarmente importante in fase di filettatura di materiali resilienti e difficili da lavorare (quali per esempio alluminio o bronzo). Il lubrificante penetra più agevolmente sino al bordo tagliente, riducendo la coppia generata.

Per filettature in fori passanti in acciai con R≥900 N/mm², acciai da bonifica e cementazione, acciai inox, materiali di difficile truciolabilità, acciai da utensile, bronzi e leghe di rame, alluminio e leghe, materiali sintetici duri.

Taps with interrupted thread.

The interrupted thread ensures less friction and therefore less resistance, which is particularly important when threading resilient and difficult-to-work materials (such as aluminum or bronze). The lubricant penetrates more easily up to the cutting edge, reducing the torque generated.

For through holes in steel with R≥900 N/mm², high alloy steel, tool steel, stainless steel, bronze, hard sinterized materials.

MASCHI A MACCHINA AL COBALTO “SINISTRI”, FILETTATURA METRICA ISO A PASSO GROSSO
Machine taps, “left hand”, metric coarse thread

10277 HSS-CO DIN 371/B

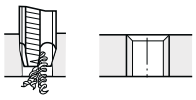
M — Sinistra / Left hand

HSS-CO AISI M35
HV 820÷850

FORM B
4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1027703X05	**34,242**
	4 x 0,7	13	63	4,5	1	1027704X07	**34,242**
	5 x 0,8	16	70	6,0	1	1027705X08	**35,166**
	6 x 1	19	80	6,0	1	1027706X1	**35,166**
	8 x 1,25	22	90	8,0	1	1027708X125	**40,954**
	10 x 1,5	24	100	10,0	1	1027710X15	**46,549**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10278 HSS-CO DIN 376/B

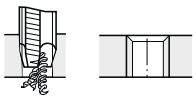
M — Sinistra / Left hand

HSS-CO AISI M35
HV 820÷850

FORM B
4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9,0	1	1027812X175	**58,673**
	14 x 2	30	110	11,0	1	1027814X2	**80,307**
	16 x 2	32	110	12,0	1	1027816X2	**93,823**
	18 x 2,5	34	125	14,0	1	1027818X25	**123,111**
	20 x 2,5	34	140	16,0	1	1027820X25	**178,129**
	22 x 2,5	34	140	18,0	1	1027822X25	**222,175**
	24 x 3	38	160	18,0	1	1027824X3	**238,044**
	27 x 3	38	160	20,0	1	1027827X3	**394,757**
	30 x 3,5	45	180	22,0	1	1027830X35	**430,550**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO “SINISTRI”, FILETTATURA METRICA ISO A PASSO GROSSO
Machine taps, “left hand”, metric coarse thread

10263 HSS-CO DIN 371/C

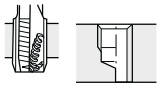
M — Sinistra / Left hand

HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1026303X05	**29,539**
	4 x 0,7	13	63	4,5	1	1026304X07	**29,539**
	5 x 0,8	16	70	6,0	1	1026305X08	**30,580**
	6 x 1	19	80	6,0	1	1026306X1	**30,580**
	8 x 1,25	22	90	8,0	1	1026308X125	**37,115**
	10 x 1,5	24	100	10,0	1	1026310X15	**42,197**

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10264 HSS-CO DIN 376/C

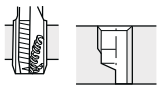
M — Sinistra / Left hand

HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads





	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9,0	1	1026412X175	**50,189**
	14 x 2	30	110	11,0	1	1026414X2	**70,777**
	16 x 2	30	110	12,0	1	1026416X2	**96,064**
	18 x 2,5	34	125	14,0	1	1026418X25	**132,282**
	20 x 2,5	34	140	16,0	1	1026420X25	**183,512**
	22 x 2,5	34	140	18,0	1	1026422X25	**193,889**
	24 x 3	38	160	18,0	1	1026424X3	**207,739**

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO “SINISTRI”, SCAN. DESTRE 35°, IMB. “C”, FILETTATURA METRICA ISO
Machine taps “left hand”, 35° spiral flute, metric coarse thread

10279 HSS-CO DIN 371/C-35° - ISO 2/6H

M — Sinistra / Left hand

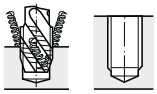
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	3,5	1	1027903X05	**38,771**
	4 x 0,7	7	63	4,5	1	1027904X07	**38,771**
	5 x 0,8	8	70	6,0	1	1027905X08	**38,771**
	6 x 1	10	80	6,0	1	1027906X1	**41,574**
	8 x 1,25	14	90	8,0	1	1027908X125	**50,047**
	10 x 1,5	16	100	10,0	1	1027910X15	**56,683**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless* — Acciaio *Steel* — Olio *Oil*

Metalli *Metals* — Alluminio *Aluminum*

10288 HSS-CO DIN 376/C-35° - ISO 2/6H

M — Sinistra / Left hand

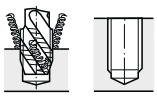
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	9,0	1	1028812X175	**61,534**
	14 x 2	20	110	11,0	1	1028814X2	**80,428**
	16 x 2	22	110	12,0	1	1028816X2	**90,215**
	18 x 2,5	25	125	14,0	1	1028818X25	**121,438**
	20 x 2,5	25	140	16,0	1	1028820X25	**173,481**
	22 x 2,5	27	140	18,0	1	1028822X25	**192,409**
	24 x 3	30	160	18,0	1	1028824X3	**198,710**
	27 x 3	30	160	20,0	1	1028827X3	**340,649**
	30 x 3,5	35	180	22,0	1	1028830X35	**353,276**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless* — Acciaio *Steel* — Olio *Oil*

Metalli *Metals* — Alluminio *Aluminum*

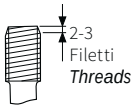
MASCHI A MACCHINA AL COBALTO A RULLARE, FILETTATURA METRICA ISO A PASSO GROSSO
Cold forming machine taps, ISO thread

10360 HSS-CO TiN ~ DIN 2174

Senza canalini - M



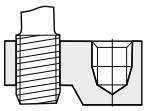
HSS-CO+TiN
HV 0,05=2500
ISO 2X/6HX





	DIN 371 Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	2,80	1	1036003X05	**48,085**
	4 x 0,7	13	63	4,5	3,70	1	1036004X07	**52,806**
	5 x 0,8	16	70	6,0	4,65	1	1036005X08	**61,957**
	6 x 1	19	80	6,0	5,55	1	1036006X1	**61,957**
	8 x 1,25	22	90	8,0	7,45	1	1036008X125	**73,952**
	10 x 1,5	24	100	10	9,30	1	1036010X15	**86,874**

	DIN 376 Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9,0	11,20	1	1036012X175	**127,201**
	14 x 2	30	110	11	13,00	1	1036014X2	**172,182**
	16 x 2	32	110	12	15,01	1	1036016X2	**190,801**



R ≥ 1200 N/mm²

MASCHI A RULLARE
Questo tipo di maschi differisce da quelli a tagliare poiché il filetto è prodotto per deformazione plastica del materiale, piuttosto che per la tradizionale azione di taglio. Questo significa che non viene prodotto truciolo durante la lavorazione. I maschi a rullare possono essere impiegati su materiali con buone caratteristiche di deformabilità.
I maschi a rullare senza scanalature sono raccomandati per lavorazioni comuni ed in particolare per la filettatura di lamiere. Sono disponibili anche nella versione con passaggio interno di lubrificante.

COLD FORMING TAPS
This type of tap differs from cutting taps in that the thread is produced by plastic deformation of the material, rather than by the traditional cutting action. This means that no chips are produced during machining. Forming taps can be used on materials with good deformability characteristics.
Cold forming taps are recommended for common machining and especially for sheets. They are also available in the version with internal lubricant passage.

Applicazioni
Applications



Inox *Stainless*


Acciaio *Steel*


Metalli *Metals*

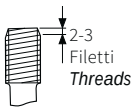

Olio *Oil*

10280 HSS-CO ~ DIN 2174

Senza canalini - M



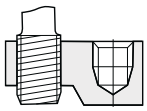
HSS-CO AISI M35
HV 820÷850
ISO 2X/6HX





	DIN 371 Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	2,80	1	1028003X05	**27,723**
	4 x 0,7	13	63	4,5	3,70	1	1028004X07	**31,239**
	5 x 0,8	16	70	6,0	4,65	1	1028005X08	**33,780**
	6 x 1	19	80	6,0	5,55	1	1028006X1	**33,780**
	8 x 1,25	22	90	8,0	7,45	1	1028008X125	**40,813**
	10 x 1,5	24	100	10	9,30	1	1028010X15	**48,890**

	DIN 376 Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9,0	11,20	1	1028012X175	**60,607**
	14 x 2	30	110	11	13,00	1	1028014X2	**85,244**
	16 x 2	32	110	12	15,01	1	1028016X2	**107,352**



R ≥ 850 N/mm²

Applicazioni
Applications



Inox *Stainless*


Acciaio *Steel*


Metalli *Metals*


Olio *Oil*

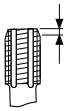
MASCHI A MACCHINA AL COBALTO A RULLARE, CON CANALINI DI LUBRIFICAZIONE, FILETTATURA METRICA ISO A PASSO GROSSO
Cold forming machine taps, ISO thread

10361 HSS-CO TiN ~ DIN 2174

Con canalini - M

HSS-CO+TiN
HV 0,05=2500
ISO 2X/6HX

Gambo rinforzato
Reinforced shank

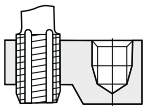




	DIN 371 Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	2,80	1	1036103X05	**50,640**
	4 x 0,7	13	63	4,5	3,70	1	1036104X07	**55,270**
	5 x 0,8	16	70	6,0	4,65	1	1036105X08	**59,506**
	6 x 1	19	80	6,0	5,55	1	1036106X1	**61,630**
	8 x 1,25	22	90	8,0	7,45	1	1036108X125	**74,723**
	10 x 1,5	24	100	10	9,30	1	1036110X15	**89,912**

	DIN 376 Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9,0	11,20	1	1036112X175	**120,317**
	14 x 2	30	110	11	13,00	1	1036114X2	**164,360**
	16 x 2	32	110	12	15,01	1	1036116X2	**193,969**

R ≥ 1200 N/mm²



Con canalini di lubrificazione
With oil grooves

Applicazioni
Applications



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

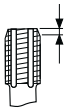
Raccomandata Lubrorefrigerazione con olio o grafite
Recommended oil or graphite cooling

10281 HSS-CO ~ DIN 2174

Con canalini - M

HSS-CO AISI M35
HV 820÷850
ISO 2X/6HX

Gambo rinforzato
Reinforced shank

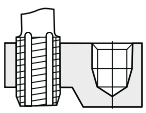




	DIN 371 Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	2,80	1	1028103X05	**33,542**
	4 x 0,7	13	63	4,5	3,70	1	1028104X07	**37,751**
	5 x 0,8	16	70	6,0	4,65	1	1028105X08	**41,946**
	6 x 1	19	80	6,0	5,55	1	1028106X1	**41,946**
	8 x 1,25	22	90	8,0	7,45	1	1028108X125	**49,853**
	10 x 1,5	24	100	10	9,30	1	1028110X15	**57,669**

	DIN 376 Ø	l	L	d	preforo drill	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	9,0	11,20	1	1028112X175	**72,381**
	14 x 2	30	110	11	13,00	1	1028114X2	**107,479**
	16 x 2	32	110	12	15,01	1	1028116X2	**129,563**

R ≥ 850 N/mm²



Con canalini di lubrificazione
With oil grooves

Applicazioni
Applications



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

Raccomandata Lubrorefrigerazione con olio o grafite
Recommended oil or graphite cooling

MASCHI A MACCHINA AL COBALTO “SOVRADIMENSIONATI”, FIL. DIN 13 A PASSO GROSSO
Machine taps oversize

10310 HSS-CO ISO 3 DIN 371/B | DIN 376/B 6g



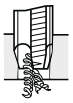
6G
Filetto
con tolleranza lasca
Thread with large clearance

Gambo rinforzato
Reinforced shank



	DIN 371/B Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	1	1031003X05	**18,094**
	4 x 0,7	13	63	1	1031004X07	**18,094**
	5 x 0,8	16	70	1	1031005X08	**18,852**
	6 x 1	19	80	1	1031006X1	**18,852**
	8 x 1,25	22	90	1	1031008X125	**23,121**
	10 x 1,5	24	100	1	1031010X15	**26,391**

	DIN 376/B Ø	l	L	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	1	1031012X175	**31,667**



Per filettature in acciai con R≤850 N/mm², ghisa, metalli non erosi a truciolo lungo.
For threading in steel with R≤850 N/mm², cast iron, non ferrous metals with long chip.

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10313 HSS-CO ISO 3 DIN 371/C-35° 6g



6G
Filetto
con tolleranza lasca
Thread with large clearance

Gambo rinforzato
Reinforced shank



	Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	1	1031303X05	**21,614**
	4 x 0,7	7	63	1	1031304X07	**21,614**
	5 x 0,8	8	70	1	1031305X08	**22,622**
	6 x 1	10	80	1	1031306X1	**22,622**
	8 x 1,25	14	90	1	1031308X125	**27,649**
	10 x 1,5	16	100	1	1031310X15	**31,918**



Per filettature in acciai con R≤850 N/mm², ghisa, metalli non erosi a truciolo lungo.
For threading in steel with R≤850 N/mm², cast iron, non ferrous metals with long chip.

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

MASCHI A MACCHINA AL COBALTO “SOVRADIMENSIONATI”, FIL. DIN 13 A PASSO GROSSO
Machine taps oversize

10311 HSS-CO ISO 3 DIN 371/B | DIN 376/B 7g

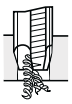


7G
Tolleranza necessaria per tenere conto delle distorsioni da trattamento termico
Allowance for distorsion caused by heat treatment



	DIN 371/B Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	1	1031103X05	18,353
	4 x 0,7	13	63	1	1031104X07	18,353
	5 x 0,8	16	70	1	1031105X08	19,349
	6 x 1	19	80	1	1031106X1	19,349
	8 x 1,25	22	90	1	1031108X125	24,376
	10 x 1,5	24	100	1	1031110X15	29,154

	DIN 376/B Ø	l	L	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	1	1031112X175	33,684



Per filettature in acciai con R≤850 N/mm², ghisa, metalli non erosi a truciolo lungo.
For threading in steel with R≤850 N/mm², cast iron, non ferrous metals with long chip.

R ≤ 850 N/mm²

Applicazioni
Applications



Inox *Stainless*


Acciaio *Steel*


Metalli *Metals*


Olio *Oil*

10314 HSS-CO ISO 3 DIN 371/C-35° | DIN 376/C-35° 7g



7G
Tolleranza necessaria per tenere conto delle distorsioni da trattamento termico
Allowance for distorsion caused by heat treatment



	DIN 371/C-35° Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	1	1031403X05	22,123
	4 x 0,7	7	63	1	1031404X07	22,123
	5 x 0,8	8	70	1	1031405X08	23,878
	6 x 1	10	80	1	1031406X1	23,878
	8 x 1,25	14	90	1	1031408X125	30,412
	10 x 1,5	16	100	1	1031410X15	35,947

	DIN 376/C-35° Ø	l	L	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	1	1031412X175	38,709



Per filettature in acciai con R≤850 N/mm², ghisa, metalli non erosi a truciolo lungo.
For threading in steel with R≤850 N/mm², cast iron, non ferrous metals with long chip.

R ≤ 850 N/mm²

Applicazioni
Applications



Inox *Stainless*


Acciaio *Steel*


Olio *Oil*


Metalli *Metals*



Alluminio *Aluminum*

MASCHI A MACCHINA AL COBALTO “SOVRADIMENSIONATI”, FIL. DIN 13 A PASSO GROSSO
Machine taps oversize

10312 HSS-CO ISO 3 DIN 371/B | DIN 376/B

+ 0,1 mm

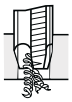


+0,1 mm
Tolleranza che tiene conto di un eventuale spessore di rivestimento elettro-deposto (0,25 µm)
Electroplating allowance thickness



	DIN 371/B Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	1	1031203X05	**18,353**
	4 x 0,7	13	63	1	1031204X07	**18,353**
	5 x 0,8	16	70	1	1031205X08	**19,349**
	6 x 1	19	80	1	1031206X1	**19,349**
	8 x 1,25	22	90	1	1031208X125	**24,376**
	10 x 1,5	24	100	1	1031210X15	**29,154**

	DIN 376/B Ø	l	L	pcs	cod.	€ cad/each
M	**12** x 1,75	29	110	1	1031212X175	**33,684**



Per filettature in acciai con R≤850 N/mm², ghisa, metalli non erosi a truciolo lungo.
For threading in steel with R≤850 N/mm², cast iron, non ferrous metals with long chip.

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10315 HSS-CO ISO 3 DIN 371/C-35° | DIN 376/C-35°

+ 0,1 mm



+0,1 mm
Tolleranza che tiene conto di un eventuale spessore di rivestimento elettro-deposto (0,25 µm)
Electroplating allowance thickness



	DIN 371/C-35° Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	6	56	1	1031503X05	**22,123**
	4 x 0,7	7	63	1	1031504X07	**22,123**
	5 x 0,8	8	70	1	1031505X08	**23,878**
	6 x 1	10	80	1	1031506X1	**23,878**
	8 x 1,25	14	90	1	1031508X125	**30,412**
	10 x 1,5	16	100	1	1031510X15	**35,947**

	DIN 376/C-35° Ø	l	L	pcs	cod.	€ cad/each
M	**12** x 1,75	18	110	1	1031512X175	**38,960**



Per filettature in acciai con R≤850 N/mm², ghisa, metalli non erosi a truciolo lungo.
For threading in steel with R≤850 N/mm², cast iron, non ferrous metals with long chip.

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

MASCHI A MACCHINA AL COBALTO PER DADI, FILETTATURA METRICA ISO A PASSO GROSSO
Machine nut taps, metric coarse thread

10273 HSS-CO DIN 357 ISO 2/6H

M



HSS-CO AISI M35
HV 820÷850
Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3



R 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel

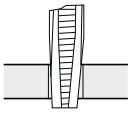


Metalli
Metals



Olio
Oil

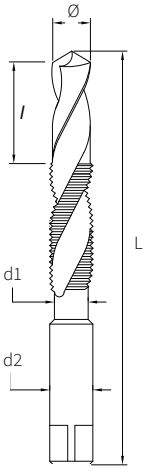
	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	22	70	2,2	1	1027303X05	**22,060**
	4 x 0,7	25	90	2,8	1	1027304X07	**22,060**
	5 x 0,8	28	100	3,5	1	1027305X08	**23,560**
	6 x 1	32	110	4,5	1	1027306X1	**24,642**
	8 x 1,25	40	125	6	1	1027308X125	**32,113**
	10 x 1,5	45	140	7	1	1027310X15	**36,885**
	12 x 1,75	50	180	9	1	1027312X175	**47,447**
	14 x 2	56	200	11	1	1027314X2	**62,310**
	16 x 2	63	200	12	1	1027316X2	**90,873**
	18 x 2,5	63	220	14	1	1027318X25	**110,222**
	20 x 2,5	70	250	16	1	1027320X25	**115,139**
	22 x 2,5	80	280	18	1	1027322X25	**118,452**
	24 x 3	80	280	18	1	1027324X3	**139,614**



PUNTA-MASCHIO A MACCHINA AL COBALTO PER FORATURE E FILETTATURE IN UNA SOLA OPERAZIONE
Combined machine drill-tap for drilling and threading in one operation

10290 HSS-CO DIN 357 ISO 2/6H

M





R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel

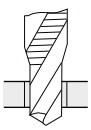


Metalli
Metals



Olio
Oil

	Ø	l	L	d1	d2	pcs	cod.	€ cad/each
M	**3** x 0,5	15	56	2,5	3	1	1029003X05	**60,929**
	4 x 0,7	15	63	3,3	4	1	1029004X07	**60,929**
	5 x 0,8	19	71	4,2	5	1	1029005X08	**60,929**
	6 x 1	22	80	5	6	1	1029006X1	**67,564**
	8 x 1,25	25	95	6,8	8	1	1029008X125	**74,124**
	10 x 1,5	30	106	8,5	10	1	1029010X15	**83,197**
	12 x 1,75	30	115	10,2	12	1	1029012X175	**99,417**



MASCHI A MACCHINA AL COBALTO, SCAN. DIRITTE, IMB. CORRETTO, FILETTATURA METRICA ISO A PASSO FINE

Machine taps, metric ISO fine thread

10259 HSS-CO DIN 374/B ISO 2/6H MF



Gambo cilindrico
Ø ≤ M3

Round shank
Ø ≤ M3



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



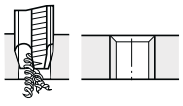
Metalli
Metals



Olio
Oil

Ø		l	L	d	pcs.	cod.	€ cad/each
M	**3** x 0,35	9	56	2,2	1	1025903X035	**36,637**
	4 x 0,35	10	63	2,8	1	1025904X035	**36,637**
	4 x 0,5	10	63	2,8	1	1025904X05	**31,957**
	5 x 0,5	12	70	3,5	1	1025905X05	**31,957**
	5 x 0,75	12	70	3,5	1	1025905X075	**36,637**
	6 x 0,5	14	80	4,5	1	1025906X05	**32,856**
	6 x 0,75	14	80	4,5	1	1025906X075	**32,856**
	7 x 0,75	14	80	5,5	1	1025907X075	**45,203**
	8 x 0,5	19	80	6	1	1025908X05	**52,153**
	8 x 0,75	19	80	6	1	1025908X075	**42,376**
	8 x 1	22	90	6	1	1025908X1	**37,094**
	9 x 0,75	19	80	7	1	1025909X075	**49,479**
	9 x 1	22	90	7	1	1025909X1	**45,203**
	10 x 0,75	20	90	7	1	1025910X075	**43,208**
	10 x 1	20	90	7	1	1025910X1	**43,208**
	10 x 1,25	24	100	7	1	1025910X125	**43,208**
	11 x 1	20	90	8	1	1025911X1	**61,215**
	11 x 1,25	22	90	8	1	1025911X125	**61,215**
	12 x 0,75	22	100	9	1	1025912X075	**61,215**
	12 x 1	22	100	9	1	1025912X1	**50,419**
	12 x 1,25	22	100	9	1	1025912X125	**50,419**
	12 x 1,5	22	100	9	1	1025912X15	**50,419**
	13 x 1	22	100	11	1	1025913X1	**71,683**
	13 x 1,5	22	100	11	1	1025913X15	**71,683**
	14 x 0,75	22	100	11	1	1025914X075	**71,683**
	14 x 1	22	100	11	1	1025914X1	**71,683**
	14 x 1,25	22	100	11	1	1025914X125	**71,683**
	14 x 1,5	22	100	11	1	1025914X15	**71,683**
	15 x 1	22	100	12	1	1025915X1	**71,683**
	15 x 1,5	22	100	12	1	1025915X15	**71,683**
	16 x 1	22	100	12	1	1025916X1	**71,683**
	16 x 1,25	22	100	12	1	1025916X125	**71,683**
	16 x 1,5	22	100	12	1	1025916X15	**71,683**
	18 x 1	25	110	14	1	1025918X1	**86,261**
	18 x 1,25	25	110	14	1	1025918X125	**86,261**
	18 x 1,5	25	110	14	1	1025918X15	**86,261**
	18 x 2	34	125	14	1	1025918X2	**86,261**
	20 x 1	25	125	16	1	1025920X1	**110,414**
	20 x 1,25	25	125	16	1	1025920X125	**110,414**
	20 x 1,5	25	125	16	1	1025920X15	**110,414**
	20 x 2	34	140	16	1	1025920X2	**110,414**
	21 x 1,5	25	125	16	1	1025921X15	**124,607**
	22 x 1	25	125	18	1	1025922X1	**124,607**
	22 x 1,25	25	125	18	1	1025922X125	**124,607**
	22 x 1,5	25	125	18	1	1025922X15	**124,607**
	22 x 2	34	140	18	1	1025922X2	**124,607**
	23 x 1,5	25	125	18	1	1025923X15	**166,406**
	24 x 1	28	140	18	1	1025924X1	**143,837**
	24 x 1,25	28	140	18	1	1025924X125	**143,837**
	24 x 1,5	28	140	18	1	1025924X15	**143,837**
	24 x 2	28	140	18	1	1025924X2	**143,837**
	25 x 1	28	140	18	1	1025925X1	**174,727**
	25 x 1,5	28	140	18	1	1025925X15	**174,727**

Ø		l	L	d	pcs.	cod.	€ cad/each
M	**25** x 2	28	140	18	1	1025925X2	**174,727**
	26 x 1	28	140	18	1	1025926X1	**173,248**
	26 x 1,5	28	140	18	1	1025926X15	**173,248**
	26 x 2	28	140	18	1	1025926X2	**173,248**
	27 x 1	28	140	20	1	1025927X1	**177,686**
	27 x 1,5	28	140	20	1	1025927X15	**177,686**
	27 x 2	28	140	20	1	1025927X2	**177,686**
	28 x 1	28	140	20	1	1025928X1	**195,454**
	28 x 1,5	28	140	20	1	1025928X15	**195,454**
	28 x 2	28	140	20	1	1025928X2	**195,454**
	29 x 1,5	28	150	22	1	1025929X15	**239,734**
	30 x 1	28	150	22	1	1025930X1	**205,886**
	30 x 1,5	28	150	22	1	1025930X15	**205,886**
	30 x 2	28	150	22	1	1025930X2	**205,886**
	30 x 2,5	45	180	22	1	1025930X25	**229,864**
	30 x 3	45	180	22	1	1025930X3	**229,864**
	32 x 1,5	28	150	22	1	1025932X15	**258,066**
	32 x 2	28	150	22	1	1025932X2	**258,066**
	32 x 3	50	180	22	1	1025932X3	**258,066**
	33 x 1,5	30	160	25	1	1025933X15	**287,689**
	33 x 2	30	160	25	1	1025933X2	**287,689**
	33 x 3	50	180	25	1	1025933X3	**287,689**
	34 x 1,5	30	170	28	1	1025934X15	**293,321**
	34 x 2	30	170	28	1	1025934X2	**293,321**
	35 x 1,5	30	170	28	1	1025935X15	**306,020**
	36 x 1,5	30	170	28	1	1025936X15	**306,020**
	36 x 2	30	170	28	1	1025936X2	**306,020**
	36 x 3	56	200	28	1	1025936X3	**306,020**
	38 x 1,5	30	170	28	1	1025938X15	**327,169**
	39 x 1,5	30	170	32	1	1025939X15	**327,169**
	39 x 2	30	170	32	1	1025939X2	**327,169**
	39 x 3	60	200	32	1	1025939X3	**327,169**
	40 x 1,5	30	170	32	1	1025940X15	**353,961**
	40 x 2	30	170	32	1	1025940X2	**353,961**
	40 x 3	60	200	32	1	1025940X3	**353,961**
	42 x 1,5	30	170	32	1	1025942X15	**396,357**
	42 x 2	30	170	32	1	1025942X2	**396,357**
	42 x 3	60	200	32	1	1025942X3	**396,357**
	45 x 1,5	32	180	36	1	1025945X15	**507,636**
	45 x 2	32	180	36	1	1025945X2	**507,636**
	45 x 3	50	200	36	1	1025945X3	**507,636**
	48 x 1,5	32	190	36	1	1025948X15	**605,209**
	48 x 2	32	190	36	1	1025948X2	**605,209**
	48 x 3	50	225	36	1	1025948X3	**605,209**
	50 x 1,5	32	190	36	1	1025950X15	**713,440**
	50 x 2	32	190	36	1	1025950X2	**713,440**
	50 x 3	50	225	36	1	1025950X3	**713,440**
	52 x 1,5	32	190	40	1	1025952X15	**777,470**
	52 x 2	32	190	40	1	1025952X2	**777,470**
	52 x 3	50	225	40	1	1025952X3	**777,470**
	63 x 1,5	50	275	50	1	1025963X15	**1.341,315**



Per fori passanti in acciai con R≤850 N/mm², ghisa, metalli non ferrosi a truciolo lungo.
For through holes in steel with R≤850 N/mm², cast iron, non ferrous metals with long chip.

MASCHI A MACCHINA AL COBALTO, SCANALATURE DIRITTE, IMBOCCO “C”, FIL. METRICA ISO A PASSO FINE

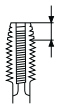
Machine taps, “C” chamfer form, metric fine thread

10252 HSS-CO DIN 374/C ISO 2/6H MF

HSS-CO AISI M35
HV 820÷850



FORM C



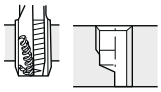
2-3 Filetti
Threads

R ≤ 850 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Olio *Oil*

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**4** x 0,35	10	63	2,8	1	1025204X035	**26,599**
	5 x 0,5	12	70	3,5	1	1025205X05	**26,599**
	6 x 0,75	14	80	4,5	1	1025206X075	**26,599**
	8 x 0,75	19	80	6,0	1	1025208X075	**30,782**
	8 x 1	22	90	6,0	1	1025208X1	**30,782**
	10 x 1	20	90	7,0	1	1025210X1	**35,386**
	10 x 1,25	24	100	7,0	1	1025210X125	**35,386**
	12 x 1	22	100	9,0	1	1025212X1	**36,911**
	12 x 1,25	22	100	9,0	1	1025212X125	**36,911**
	12 x 1,5	22	100	9,0	1	1025212X15	**36,911**
	14 x 1	22	100	11,0	1	1025214X1	**42,309**
	14 x 1,25	22	100	11,0	1	1025214X125	**42,309**
	14 x 1,5	22	100	11,0	1	1025214X15	**42,309**
	16 x 1	22	100	12,0	1	1025216X1	**49,063**
	16 x 1,5	22	100	12,0	1	1025216X15	**49,063**
	18 x 1	25	110	14,0	1	1025218X1	**60,497**
	18 x 1,5	25	110	14,0	1	1025218X15	**60,497**
	18 x 2	34	125	14,0	1	1025218X2	**60,497**
	20 x 1	25	125	16,0	1	1025220X1	**94,279**
	20 x 1,25	25	125	16,0	1	1025220X125	**67,342**
	20 x 1,5	25	125	16,0	1	1025220X15	**67,342**
	20 x 2	34	140	16,0	1	1025220X2	**67,342**
	22 x 1	25	125	18,0	1	1025222X1	**93,967**
	22 x 1,5	25	125	18,0	1	1025222X15	**93,967**
	22 x 2	34	140	18,0	1	1025222X2	**93,967**
	24 x 1	28	140	18,0	1	1025224X1	**106,956**
	24 x 1,5	28	140	18,0	1	1025224X15	**106,956**
	24 x 2	28	140	18,0	1	1025224X2	**124,781**
	25 x 1	28	140	18,0	1	1025225X1	**143,848**
	26 x 1,5	28	140	18,0	1	1025226X15	**129,610**
	27 x 1,5	28	140	20,0	1	1025227X15	**144,756**
	27 x 2	28	140	20,0	1	1025227X2	**144,756**
	28 x 1,5	28	140	20,0	1	1025228X15	**144,756**
	30 x 1,5	28	150	22,0	1	1025230X15	**161,496**
	30 x 2	28	150	22,0	1	1025230X2	**161,496**
	32 x 1,5	28	150	22,0	1	1025232X15	**182,758**
	32 x 2	28	150	22,0	1	1025232X2	**182,758**
	33 x 2	30	160	25,0	1	1025233X2	**204,757**
	35 x 1,5	30	170	28,0	1	1025235X15	**219,997**
	36 x 1,5	30	170	28,0	1	1025236X15	**236,911**
	36 x 2	30	170	28,0	1	1025236X2	**236,911**
	38 x 1,5	30	170	28,0	1	1025238X15	**253,839**
	40 x 1,5	30	170	32,0	1	1025240X15	**296,145**
	42 x 1,5	30	170	32,0	1	1025242X15	**296,145**
	45 x 1,5	32	180	36,0	1	1025245X15	**350,295**
	48 x 1,5	32	190	36,0	1	1025248X15	**399,376**
	50 x 1,5	32	190	36,0	1	1025250X15	**527,985**
	52 x 1,5	32	190	40,0	1	1025252X15	**527,985**



Per fori ciechi e passanti in acciai e ghisa con R≤850 N/mm²

For blind and through holes in steel with R≤850 N/mm²

MASCHI A MACCHINA AL COBALTO, SCAN. ELICOIDALI 35°, FIL. METRICA ISO A PASSO FINE

Machine taps, 35° spiral flute, metric fine thread

10260 HSS-CO DIN 374/C-35° ISO 2/6H MF

Gambo cilindrico
Ø ≤ M3

Round shank
Ø ≤ M3



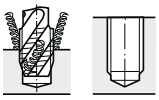
R ≤ 850 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

Ø		l	L	d	pcs.	cod.	€ cad/each
M	**3** x 0,35	9	56	2,2	1	1026003X035	**39,115**
	4 x 0,35	10	63	2,8	1	1026004X035	**41,722**
	4 x 0,5	10	63	2,8	1	1026004X05	**37,811**
	5 x 0,5	12	70	3,5	1	1026005X05	**41,722**
	5 x 0,75	12	70	3,5	1	1026005X075	**41,722**
	6 x 0,5	14	80	4,5	1	1026006X05	**41,722**
	6 x 0,75	14	80	4,5	1	1026006X075	**41,722**
	7 x 0,75	14	80	5,5	1	1026007X075	**41,722**
	8 x 0,5	19	80	6	1	1026008X05	**50,849**
	8 x 0,75	19	80	6	1	1026008X075	**37,811**
	8 x 1	22	90	6	1	1026008X1	**44,331**
	9 x 0,75	19	80	7	1	1026009X075	**64,631**
	9 x 1	22	90	7	1	1026009X1	**49,545**
	10 x 0,75	20	90	7	1	1026010X075	**58,672**
	10 x 1	20	90	7	1	1026010X1	**49,545**
	10 x 1,25	24	100	7	1	1026010X125	**51,502**
	11 x 1	20	90	8	1	1026011X1	**57,239**
	11 x 1,25	22	90	8	1	1026011X125	**57,239**
	12 x 0,75	22	100	9	1	1026012X075	**57,239**
	12 x 1	22	100	9	1	1026012X1	**57,239**
	12 x 1,25	22	100	9	1	1026012X125	**57,239**
	12 x 1,5	22	100	9	1	1026012X15	**57,239**
	13 x 1	22	100	11	1	1026013X1	**69,950**
	13 x 1,5	22	100	11	1	1026013X15	**69,950**
	14 x 0,75	22	100	11	1	1026014X075	**69,950**
	14 x 1	22	100	11	1	1026014X1	**69,950**
	14 x 1,25	22	100	11	1	1026014X125	**69,950**
	14 x 1,5	22	100	11	1	1026014X15	**69,950**
	15 x 1	22	100	12	1	1026015X1	**81,281**
	15 x 1,5	22	100	12	1	1026015X15	**81,281**
	16 x 1	22	100	12	1	1026016X1	**81,281**
	16 x 1,25	22	100	12	1	1026016X125	**81,281**
	16 x 1,5	22	100	12	1	1026016X15	**81,281**
	18 x 1	25	110	14	1	1026018X1	**99,768**
	18 x 1,25	25	110	14	1	1026018X125	**99,768**
	18 x 1,5	25	110	14	1	1026018X15	**99,768**
	18 x 2	34	125	14	1	1026018X2	**99,768**
	20 x 1	25	125	16	1	1026020X1	**122,052**
	20 x 1,25	25	125	16	1	1026020X125	**122,052**
	20 x 1,5	25	125	16	1	1026020X15	**122,052**
	20 x 2	34	140	16	1	1026020X2	**122,052**
	21 x 1,5	25	125	16	1	1026021X15	**122,052**
	22 x 1	25	125	18	1	1026022X1	**140,813**
	22 x 1,25	25	125	18	1	1026022X125	**140,813**
	22 x 1,5	25	125	18	1	1026022X15	**134,215**
	22 x 2	34	140	18	1	1026022X2	**134,215**
	23 x 1,5	25	125	18	1	1026023X15	**162,599**
	24 x 1	28	140	18	1	1026024X1	**162,599**
	24 x 1,25	28	140	18	1	1026024X125	**162,599**
	24 x 1,5	28	140	18	1	1026024X15	**162,599**
	24 x 2	28	140	18	1	1026024X2	**162,599**
	25 x 1	28	140	18	1	1026025X1	**178,859**

Ø		l	L	d	pcs.	cod.	€ cad/each
M	**25** x 1,5	28	140	18	1	1026025X15	**178,859**
	25 x 2	28	140	18	1	1026025X2	**178,859**
	26 x 1	28	140	18	1	1026026X1	**180,710**
	26 x 1,5	28	140	18	1	1026026X15	**180,710**
	26 x 2	28	140	18	1	1026026X2	**188,923**
	27 x 1	28	140	20	1	1026027X1	**196,017**
	27 x 1,5	28	140	20	1	1026027X15	**196,017**
	27 x 2	28	140	20	1	1026027X2	**196,017**
	28 x 1	28	140	20	1	1026028X1	**196,017**
	28 x 1,5	28	140	20	1	1026028X15	**196,017**
	28 x 2	28	140	20	1	1026028X2	**196,017**
	29 x 1,5	28	150	22	1	1026029X15	**222,809**
	30 x 1	28	150	22	1	1026030X1	**222,809**
	30 x 1,5	28	150	22	1	1026030X15	**222,809**
	30 x 2	28	150	22	1	1026030X2	**222,809**
	30 x 2,5	45	180	22	1	1026030X25	**222,809**
	30 x 3	45	180	22	1	1026030X3	**222,809**
	32 x 1,5	28	150	22	1	1026032X15	**277,819**
	32 x 2	28	150	22	1	1026032X2	**277,819**
	32 x 3	50	180	22	1	1026032X3	**277,819**
	33 x 1,5	30	160	25	1	1026033X15	**291,710**
	33 x 2	30	160	25	1	1026033X2	**291,710**
	33 x 3	50	180	25	1	1026033X3	**291,710**
	34 x 1,5	30	170	28	1	1026034X15	**291,710**
	34 x 2	30	170	28	1	1026034X2	**291,710**
	35 x 1,5	30	170	28	1	1026035X15	**291,710**
	36 x 1,5	30	170	28	1	1026036X15	**383,162**
	36 x 2	30	170	28	1	1026036X2	**383,162**
	36 x 3	56	200	28	1	1026036X3	**383,162**
	38 x 1,5	30	170	28	1	1026038X15	**384,994**
	39 x 1,5	30	170	32	1	1026039X15	**384,994**
	39 x 2	30	170	32	1	1026039X2	**384,994**
	39 x 3	60	200	32	1	1026039X3	**384,994**
	40 x 1,5	30	170	32	1	1026040X15	**393,898**
	40 x 2	30	170	32	1	1026040X2	**393,898**
	40 x 3	60	200	32	1	1026040X3	**393,898**
	42 x 1,5	30	170	32	1	1026042X15	**424,190**
	42 x 2	30	170	32	1	1026042X2	**424,190**
	42 x 3	60	200	32	1	1026042X3	**424,190**
	45 x 1,5	32	180	36	1	1026045X15	**497,101**
	45 x 2	32	180	36	1	1026045X2	**497,101**
	45 x 3	50	200	36	1	1026045X3	**497,101**
	48 x 1,5	32	190	36	1	1026048X15	**589,889**
	48 x 2	32	190	36	1	1026048X2	**589,889**
	48 x 3	50	225	36	1	1026048X3	**589,889**
	50 x 1,5	32	190	36	1	1026050X15	**689,310**
	50 x 2	32	190	36	1	1026050X2	**689,310**
	50 x 3	50	225	36	1	1026050X3	**689,310**
	52 x 1,5	32	190	40	1	1026052X15	**756,914**
	52 x 2	32	190	40	1	1026052X2	**756,914**
	52 x 3	50	225	40	1	1026052X3	**756,914**
	63 x 1,5	40	275	50	1	1026063X15	**1.280,531**



Per fori ciechi in acciai con R≤850 N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

For blind holes in steel with R≤850 N/mm², malleable cast iron, non ferrous metals with long chips, stainless steel, heat resistant steel.

MASCHI A MACCHINA AL COBALTO “SINISTRI”, FILETTATURA METRICA ISO A PASSO FINE
Machine taps, “left hand”, metric thread

10286 **HSS-CO** **DIN 374/B** **ISO 2/6H** **MF** Sinistra / Left hand

HSS-CO AISI M35
HV 820÷850



FORM B

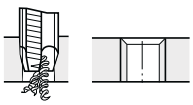
4-5 Filetti / *Threads*

R ≤ 850 N/mm²

Applicazioni
Applications

- Inox / *Stainless*
- Acciaio / *Steel*
- Metalli / *Metals*
- Olio / *Oil*

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**4** x 0,35	10	63	2,8	1	1028604X035	**82,106**
	5 x 0,5	12	70	3,5	1	1028605X05	**82,106**
	6 x 0,75	14	80	4,5	1	1028606X075	**82,106**
	8 x 0,75	19	80	6,0	1	1028608X075	**82,106**
	8 x 1	22	90	6,0	1	1028608X1	**82,106**
	10 x 1	20	90	7,0	1	1028610X1	**91,422**
	10 x 1,25	24	100	7,0	1	1028610X125	**91,422**
	12 x 1	22	100	9,0	1	1028612X1	**127,646**
	12 x 1,25	22	100	9,0	1	1028612X125	**127,646**
	12 x 1,5	22	100	9,0	1	1028612X15	**127,646**
	14 x 1	22	100	11,0	1	1028614X1	**155,247**
	14 x 1,25	22	100	11,0	1	1028614X125	**155,247**
	14 x 1,5	22	100	11,0	1	1028614X15	**155,247**
	16 x 1	22	100	12,0	1	1028616X1	**180,088**
	16 x 1,5	22	100	12,0	1	1028616X15	**180,088**
	18 x 1	25	110	14,0	1	1028618X1	**215,620**
	18 x 1,5	25	110	14,0	1	1028618X15	**215,620**
	18 x 2	34	125	14,0	1	1028618X2	**215,620**
	20 x 1	25	125	16,0	1	1028620X1	**236,320**
	20 x 1,25	25	125	16,0	1	1028620X125	**236,320**
	20 x 1,5	25	125	16,0	1	1028620X15	**236,320**
	20 x 2	34	140	16,0	1	1028620X2	**236,320**
	22 x 1	25	125	18,0	1	1028622X1	**296,694**
	22 x 1,5	25	125	18,0	1	1028622X15	**296,694**
	22 x 2	34	140	18,0	1	1028622X2	**296,694**
	24 x 1	28	140	18,0	1	1028624X1	**346,715**
	24 x 1,5	28	140	18,0	1	1028624X15	**346,715**
	24 x 2	28	140	18,0	1	1028624X2	**346,715**
	25 x 1	28	140	18,0	1	1028625X1	**346,715**
	26 x 1,5	28	140	18,0	1	1028626X15	**346,715**
	27 x 1,5	28	140	20,0	1	1028627X15	**434,689**
	27 x 2	28	140	20,0	1	1028627X2	**434,689**
	28 x 1,5	28	140	20,0	1	1028628X15	**434,689**
	30 x 1,5	28	150	22,0	1	1028630X15	**496,787**
	30 x 2	28	150	22,0	1	1028630X2	**496,787**
	32 x 1,5	28	150	22,0	1	1028632X15	**614,084**
	32 x 2	28	150	22,0	1	1028632X2	**614,084**
	33 x 2	30	160	25,0	1	1028633X2	**614,084**
	35 x 1,5	30	170	28,0	1	1028635X15	**614,084**
	36 x 1,5	30	170	28,0	1	1028636X15	**769,331**
	36 x 2	30	170	28,0	1	1028636X2	**769,331**
	38 x 1,5	30	170	28,0	1	1028638X15	**814,178**
	40 x 1,5	30	170	32,0	1	1028640X15	**886,628**
	42 x 1,5	30	170	32,0	1	1028642X15	**990,124**
	45 x 1,5	32	180	36,0	1	1028645X15	**1.172,969**
	48 x 1,5	32	190	36,0	1	1028648X15	**1.414,465**
	50 x 1,5	32	190	36,0	1	1028650X15	**1.638,709**
	52 x 1,5	32	190	40,0	1	1028652X15	**1.811,205**



Per fori in acciai con R≤850 N/mm² ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

For holes in steel with R≤850 N/mm² malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.

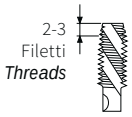
MASCHI A MACCHINA AL COBALTO “SINISTRI”, FILETTATURA METRICA ISO A PASSO FINE
Machine taps, “left hand”, metric thread

10287 **HSS-CO** **DIN 374/C-35° ISO 2/6H** **MF** Sinistra / Left hand

HSS-CO AISI M35
HV 820÷850



FORM C

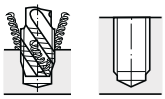


R ≤ 850 N/mm²

Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**4** x 0,35	10	63	2,8	1	1028704X035	**91,422**
	5 x 0,5	12	70	3,5	1	1028705X05	**91,422**
	6 x 0,75	14	80	4,5	1	1028706X075	**91,422**
	8 x 0,75	19	80	6,0	1	1028708X075	**91,422**
	8 x 1	22	90	6,0	1	1028708X1	**91,422**
	10 x 1	20	90	7,0	1	1028710X1	**110,397**
	10 x 1,25	24	100	7,0	1	1028710X125	**110,397**
	12 x 1	22	100	9,0	1	1028712X1	**141,446**
	12 x 1,25	22	100	9,0	1	1028712X125	**141,446**
	12 x 1,5	22	100	9,0	1	1028712X15	**141,446**
	14 x 1	22	100	11,0	1	1028714X1	**172,496**
	14 x 1,25	22	100	11,0	1	1028714X125	**172,496**
	14 x 1,5	22	100	11,0	1	1028714X15	**172,496**
	16 x 1	22	100	12,0	1	1028716X1	**198,371**
	16 x 1,5	22	100	12,0	1	1028716X15	**198,371**
	18 x 1	25	110	14,0	1	1028718X1	**244,944**
	18 x 1,5	25	110	14,0	1	1028718X15	**244,944**
	18 x 2	34	125	14,0	1	1028718X2	**244,944**
	20 x 1	25	125	16,0	1	1028720X1	**274,269**
	20 x 1,25	25	125	16,0	1	1028720X125	**274,269**
	20 x 1,5	25	125	16,0	1	1028720X15	**274,269**
	20 x 2	34	140	16,0	1	1028720X2	**274,269**
	22 x 1	25	125	18,0	1	1028722X1	**331,191**
	22 x 1,5	25	125	18,0	1	1028722X15	**331,191**
	22 x 2	34	140	18,0	1	1028722X2	**331,191**
	24 x 1	28	140	18,0	1	1028724X1	**396,740**
	24 x 1,5	28	140	18,0	1	1028724X15	**396,740**
	24 x 2	28	140	18,0	1	1028724X2	**396,740**
	25 x 1	28	140	18,0	1	1028725X1	**396,740**
	26 x 1,5	28	140	18,0	1	1028726X15	**396,740**
	27 x 1,5	28	140	20,0	1	1028727X15	**479,538**
	27 x 2	28	140	20,0	1	1028727X2	**479,538**
	28 x 1,5	28	140	20,0	1	1028728X15	**479,538**
	30 x 1,5	28	150	22,0	1	1028730X15	**545,085**
	30 x 2	28	150	22,0	1	1028730X2	**545,085**
	32 x 1,5	28	150	22,0	1	1028732X15	**679,633**
	32 x 2	28	150	22,0	1	1028732X2	**679,633**
	33 x 2	30	160	25,0	1	1028733X2	**679,633**
	35 x 1,5	30	170	28,0	1	1028735X15	**679,633**
	36 x 1,5	30	170	28,0	1	1028736X15	**855,579**
	36 x 2	30	170	28,0	1	1028736X2	**855,579**
	38 x 1,5	30	170	28,0	1	1028738X15	**896,978**
	40 x 1,5	30	170	32,0	1	1028740X15	**976,328**
	42 x 1,5	30	170	32,0	1	1028742X15	**1.103,972**
	45 x 1,5	32	180	36,0	1	1028745X15	**1.297,167**
	48 x 1,5	32	190	36,0	1	1028748X15	**1.545,561**
	50 x 1,5	32	190	36,0	1	1028750X15	**1.800,855**
	52 x 1,5	32	190	40,0	1	1028752X15	**1.976,801**



Per fori in acciai con R≤850 N/mm² ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

For holes in steel with R≤850 N/mm² malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.

MASCHI A MACCHINA AL COBALTO, FILETTATURA GAS CILINDRICA BSP
Machine taps, BSP pipe-thread

10268 HSS-CO DIN 5156/B BSP

HSS-CO AISI M35
HV 820÷850

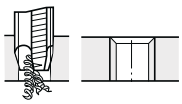
FORM B

4-5 Filetti
Threads



R ≤ 850 N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
G	**1/8** x 28	20	90	7	1	102681/8	**33,255**
	1/4 x 19	22	100	11	1	102681/4	**43,405**
	3/8 x 19	22	100	12	1	102683/8	**53,732**
	1/2 x 14	25	125	16	1	102681/2	**79,880**
	5/8 x 14	25	125	18	1	102685/8	**91,894**
	3/4 x 14	28	140	20	1	102683/4	**127,775**
	7/8 x 14	28	150	22	1	102687/8	**138,205**
	1” x 11	30	160	25	1	102681	**185,091**
	1.1/8 x 11	30	170	28	1	102681.1/8	**296,071**
	1.1/4 x 11	30	170	32	1	102681.1/4	**381,820**
	1.3/8 x 11	32	180	36	1	102681.3/8	**542,938**
	1.1/2 x 11	32	190	36	1	102681.1/2	**613,449**
	1.3/4 x 11	32	190	40	1	102681.3/4	**765,537**
	2” x 11	40	220	45	1	102682	**859,389**



Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10276 HSS-CO DIN 5156/C BSP

HSS-CO AISI M35
HV 820÷850

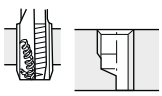
FORM C

2-3 Filetti
Threads



R ≤ 850 N/mm²

	Ø	l	L	d	pcs	cod.	€ cad/each
G	**1/8** x 28	20	90	7	1	102761/8	**36,083**
	1/4 x 19	22	100	11	1	102761/4	**45,319**
	3/8 x 19	22	100	12	1	102763/8	**56,654**
	1/2 x 14	25	125	16	1	102761/2	**79,911**
	5/8 x 14	25	125	18	1	102765/8	**90,943**
	3/4 x 14	28	140	20	1	102763/4	**117,778**
	7/8 x 14	28	150	22	1	102767/8	**146,357**
	1” x 11	30	160	25	1	102761	**190,502**
	1.1/8 x 11	30	170	28	1	102761.1/8	**265,263**
	1.1/4 x 11	30	170	32	1	102761.1/4	**353,688**
	1.3/8 x 11	32	180	36	1	102761.3/8	**511,435**
	1.1/2 x 11	32	190	36	1	102761.1/2	**544,019**
	1.3/4 x 11	32	190	40	1	102761.3/4	**694,485**
	2” x 11	40	220	45	1	102762	**752,498**



Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10267 HSS-CO DIN 5156/C-35° BSP

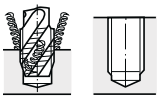
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
G	**1/8** x 28	20	90	7	1	102671/8	**41,150**
	1/4 x 19	22	100	11	1	102671/4	**63,288**
	3/8 x 19	22	100	12	1	102673/8	**81,292**
	1/2 x 14	25	125	16	1	102671/2	**133,329**
	5/8 x 14	25	125	18	1	102675/8	**152,952**
	3/4 x 14	28	140	20	1	102673/4	**200,932**
	7/8 x 14	28	150	22	1	102677/8	**242,524**
	1" x 11	30	160	25	1	102671	**271,794**
	1.1/8 x 11	30	170	28	1	102671.1/8	**413,533**
	1.1/4 x 11	30	170	32	1	102671.1/4	**500,707**
	1.3/8 x 11	32	180	36	1	102671.3/8	**727,677**
	1.1/2 x 11	32	190	36	1	102671.1/2	**769,972**
	1.3/4 x 11	32	190	40	1	102671.3/4	**1.107,688**
	2" x 11	40	220	45	1	102672	**1.213,480**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

10289 HSS-CO DIN 5156/C BSP

Sinistra
Left hand

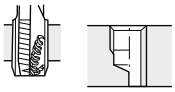
HSS-CO AISI M35
HV 820÷850



FORM C

2-3
Filetti
Threads

	Ø	l	L	d	pcs	cod.	€ cad/each
G	**1/8** x 28	20	90	7,0	1	102891/8	**46,647**
	1/4 x 19	22	100	11,0	1	102891/4	**58,428**
	3/8 x 19	22	100	12,0	1	102893/8	**73,044**
	1/2 x 14	25	125	16,0	1	102891/2	**101,996**
	5/8 x 14	25	125	18,0	1	102895/8	**117,372**
	3/4 x 14	28	140	20,0	1	102893/4	**151,204**
	1" x 11	30	160	25,0	1	102891	**220,400**



Per fori ciechi e passanti in acciai con R≤850 N/mm² ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

For blind and through holes in steel with R≤850 N/mm² malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.

R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

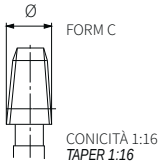
MASCHI A MACCHINA AL COBALTO CONICI PER TUBI, FILETTATURA GAS CONICA BSPT
BSPT machine taps

10294 **HSS-CO**

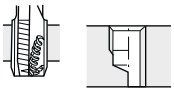
BSPT - Conici

HSS-CO AISI M35
HV 820÷850





	Ø	l	L	d	pcs	cod.	€ cad/each
Rc	**1/8** x 28	20	90	7	1	102941/8	**50,776**
	1/4 x 19	22	100	11	1	102941/4	**63,621**
	3/8 x 19	22	100	12	1	102943/8	**79,304**
	1/2 x 14	28	125	16	1	102941/2	**111,420**
	3/4 x 14	28	140	20	1	102943/4	**165,408**
	1” x 11	38	160	25	1	102941	**237,666**



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless


Acciaio
Steel


Metalli
Metals

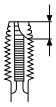

Olio
Oil

10265 HSS-CO ISO 2/6 H ≃ DIN 371/B — BSW



HSS-CO AISI M35
HV 820÷850

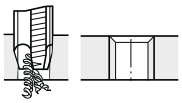
FORM B



4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
BSW	**1/8** x 40	5	56	3,5	1	102651/8	**22,480**
	5/32 x 32	6	63	4,5	1	102655/32	**22,480**
	3/16 x 24	9	70	5,5	1	102653/16	**23,070**
	1/4 x 20	10	90	7	1	102651/4	**23,070**
	5/16 x 18	12	90	8	1	102655/16	**28,417**
	3/8 x 16	14	100	10	1	102653/8	**31,909**



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



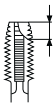
Olio
Oil

10266 HSS-CO ≃ DIN 376/B — BSW



HSS-CO AISI M35
HV 820÷850

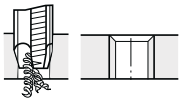
FORM B



4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
BSW	**7/16** x 14	20	100	8	1	102667/16	**38,195**
	1/2 x 12	25	110	9	1	102661/2	**38,559**
	9/16 x 12	25	110	11	1	102669/16	**56,990**
	5/8 x 11	28	110	12	1	102665/8	**56,990**
	3/4 x 10	32	125	14	1	102663/4	**118,092**
	7/8 x 9	32	140	18	1	102667/8	**133,381**
	1" x 8	36	160	20	1	102661	**151,570**
	1.1/4 x 7	40	180	22	1	102661.1/4	**225,049**
	1.1/2 x 6	50	200	32	1	102661.1/2	**481,845**



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO,
FILETTATURA INGLESE WHITWORTH A PASSO GROSSO
Machine taps, british standard thread

10274 HSS-CO DIN 371/C-35° BSW

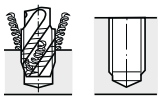
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
BSW	**1/8** x 40	5	56	3,5	1	102741/8	**31,014**
	5/32 x 32	6	63	4,5	1	102745/32	**31,014**
	3/16 x 24	9	70	5,5	1	102743/16	**32,434**
	1/4 x 20	10	90	7	1	102741/4	**32,434**
	5/16 x 18	12	90	8	1	102745/16	**39,252**
	3/8 x 16	14	100	10	1	102743/8	**45,460**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

10275 HSS-CO DIN 376/C-35° BSW

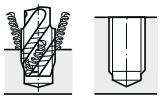
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
BSW	**7/16** x 14	20	100	8	1	102757/16	**52,429**
	1/2 x 12	25	110	9	1	102751/2	**52,429**
	9/16 x 12	25	110	11	1	102759/16	**75,476**
	5/8 x 11	28	110	12	1	102755/8	**75,476**
	3/4 x 10	32	125	14	1	102753/4	**150,776**
	7/8 x 9	32	140	18	1	102757/8	**199,650**
	1" x 8	36	160	20	1	102751	**205,222**
	1.1/4 x 7	40	180	22	1	102751.1/4	**301,563**
	1.1/2 x 6	50	200	32	1	102751.1/2	**663,159**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

MASCHI A MACCHINA AL COBALTO CONICI PER TUBI, FILETTATURA AMERICANA NPT
NPT machine taps

10293 **HSS-CO**

NPT - Conici



HSS-CO AISI M35
HV 820÷850

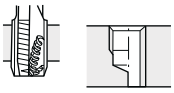


FORM C

CONICITÀ 1:16
TAPER 1:16



Ø		l	L	d	pcs	cod.	€ cad/each
NPT	**1/8** x 27	20	90	7	1	102931/8	**50,776**
	1/4 x 18	22	100	11	1	102931/4	**63,621**
	3/8 x 18	22	100	12	1	102933/8	**79,304**
	1/2 x 14	28	125	16	1	102931/2	**111,420**
	3/4 x 14	28	140	20	1	102933/4	**165,408**
	1” x 11,5	38	160	25	1	102931	**237,666**



R ≤ 850 N/mm²

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO CORTI PER TUBI, FILETTATURA CILINDRICA AMERICANA NPS
Short machine taps for pipes

10308 HSS-CO

NPS

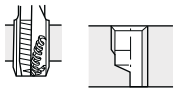
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	pcs	cod.	€ cad/each
NPS	**1/16** x 27	17,5	54	1	103081/16	**31,616**
	1/8 x 27	19	55	1	103081/8	**35,713**
	1/4 x 18	28	62	1	103081/4	**42,672**
	3/8 x 18	28	65	1	103083/8	**51,592**
	1/2 x 14	35	80	1	103081/2	**74,081**
	3/4 x 14	35	85	1	103083/4	**98,433**
	1" x 11,5	45	95	1	103081	**140,745**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10309 HSS-CO FORM C 35°

NPS

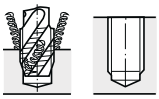
HSS-CO AISI M35
HV 820÷850

FORM C 35°

2-3 Filetti
Threads



	Ø	l	L	pcs	cod.	€ cad/each
NPS	**1/16** x 27	17,5	54	1	103091/16	**31,301**
	1/8 x 27	19	55	1	103091/8	**39,284**
	1/4 x 18	28	62	1	103091/4	**46,940**
	3/8 x 18	28	65	1	103093/8	**56,749**
	1/2 x 14	35	80	1	103091/2	**81,488**
	3/4 x 14	35	85	1	103093/4	**108,277**
	1" x 11,5	45	95	1	103091	**154,818**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

MASCHI A MACCHINA AL COBALTO CORTI PER TUBI, FILETTATURA CONICA AMERICANA NPTF
Short machine taps for pipes

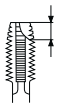
10306 HSS-CO

NPTF - Conici

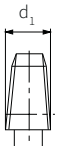


HSS-CO AISI M35
HV 820÷850

FORM B



4-5 Filetti
Threads

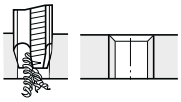


1:16 Conicità
Taper

R ≤ 850 N/mm²



	Ø	l	L	pcs	cod.	€ cad/each
NPTF	**1/16** x 27	19	55	1	103061/16	**39,514**
	1/8 x 27	19	55	1	103061/8	**39,890**
	1/4 x 18	28	62	1	103061/4	**41,983**
	3/8 x 18	28	65	1	103063/8	**47,040**
	1/2 x 14	35	80	1	103061/2	**74,081**
	3/4 x 14	35	85	1	103063/4	**98,433**
	1" x 11,5	45	95	1	103061	**140,752**



Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

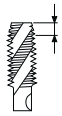
10307 HSS-CO

NPTF - Conici

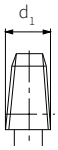


HSS-CO AISI M35
HV 820÷850

FORM C



2-3 Filetti
Threads

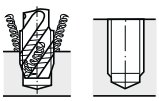


1:16 Conicità
Taper

R ≤ 850 N/mm²



	Ø	l	L	pcs	cod.	€ cad/each
NPTF	**1/8** x 27	19	55	1	103071/8	**39,984**
	1/4 x 18	28	62	1	103071/4	**44,688**
	3/8 x 18	28	65	1	103073/8	**52,920**
	1/2 x 14	35	80	1	103071/2	**81,488**
	3/4 x 14	35	85	1	103073/4	**108,277**
	1" x 11,5	45	95	1	103071	**154,828**



Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Olio
Oil



Metalli
Metals



Alluminio
Aluminum

MASCHI A MACCHINA AL COBALTO CORTI ISO 529
FILETTATURA AMERICANA UN
Short machine taps, American UN thread

10301 **HSS-CO** **ISO 529-2B** **8-UN**

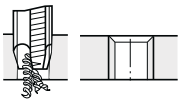
HSS-CO AISI M35
HV 820÷850

FORM B

4-5
Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
UN	**1.1/8** x 8	48	138	20,0	1	103011.1/8	**172,649**
	1.1/4 x 8	51	151	22,4	1	103011.1/4	**201,667**
	1.1/2 x 8	60	170	28,0	1	103011.1/2	**330,006**
	2” x 8	70	200	35,5	1	103012	**690,570**
	2.1/4 x 8	76	221	40,0	1	103012.1/4	**1.365,872**
	2.1/2 x 8	79	224	40,0	1	103012.1/2	**1.986,164**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

10269 HSS-CO ANSI B1.1 ≃ DIN 371/B — UNC

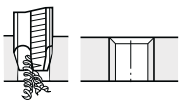
HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti *Threads*



	Ø	l	L	d	pcs	cod.	€ cad/each
UNC	**6** x 32	12	56	4	1	10269NR06	**25,741**
	8 x 32	13	63	4,5	1	10269NR08	**25,741**
	10 x 24	15	70	6	1	10269NR10	**25,741**
	12 x 24	16	70	6	1	10269NR12	**25,741**
	1/4 x 20	17	80	7	1	102691/4	**25,741**
	5/16 x 18	20	90	8	1	102695/16	**32,147**
	3/8 x 16	22	100	9	1	102693/8	**36,477**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*

Acciaio *Steel*

Metalli *Metals*

Olio *Oil*

10270 HSS-CO ≃ DIN 376/B — UNC

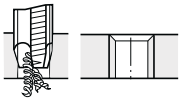
HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti *Threads*



	Ø	l	L	d	pcs	cod.	€ cad/each
UNC	**7/16** x 14	22	100	8	1	102707/16	**42,871**
	1/2 x 13	25	110	9	1	102701/2	**42,871**
	9/16 x 12	26	110	11	1	102709/16	**64,295**
	5/8 x 11	27	110	12	1	102705/8	**64,295**
	3/4 x 10	30	125	14	1	102703/4	**124,305**
	7/8 x 9	32	140	18	1	102707/8	**149,844**
	1" x 8	36	160	20	1	102701	**171,255**
	1.1/4 x 7	40	180	22	1	102701.1/4	**251,178**
	1.1/2 x 6	50	200	32	1	102701.1/2	**582,269**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*

Acciaio *Steel*

Metalli *Metals*

Olio *Oil*

MASCHI A MACCHINA AL COBALTO,
FILETTATURA AMERICANA UNC A PASSO GROSSO
HSS-CO TiAlN coated machine taps

10271 HSS-CO ANSI B1.1 ≃ DIN 371/C-35° UNC

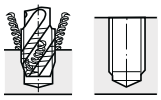
HSS-CO AISI M35
HV 820÷850

FORM C

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
UNC	**6** x 32	7	56	4	1	10271NR06	**32,147**
	8 x 32	8	63	4,5	1	10271NR08	**32,147**
	10 x 24	10	70	6	1	10271NR10	**32,147**
	12 x 24	10	70	6	1	10271NR12	**32,147**
	1/4 x 20	13	80	7	1	102711/4	**32,147**
	5/16 x 18	14	90	8	1	102715/16	**42,871**
	3/8 x 16	16	100	9	1	102713/8	**44,190**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

10272 HSS-CO ≃ DIN 376/C-35° UNC

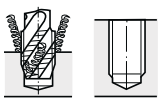
HSS-CO AISI M35
HV 820÷850

FORM C

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
UNC	**7/16** x 14	17	100	8	1	102727/16	**53,595**
	1/2 x 13	20	110	9	1	102721/2	**53,595**
	9/16 x 12	20	110	11	1	102729/16	**77,152**
	5/8 x 11	22	110	12	1	102725/8	**77,152**
	3/4 x 10	25	125	14	1	102723/4	**154,125**
	7/8 x 9	27	140	18	1	102727/8	**204,085**
	1" x 8	30	160	20	1	102721	**209,783**
	1.1/4 x 7	35	180	22	1	102721.1/4	**308,263**
	1.1/2 x 6	40	200	32	1	102721.1/2	**677,896**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

10282 HSS-CO ANSI B1.1 ≃ DIN 371/B — UNF

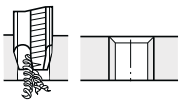
HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
UNF	**6** x 40	12	56	4	1	10282NR06	**25,803**
	8 x 36	13	63	4,5	1	10282NR08	**25,803**
	10 x 32	15	70	6	1	10282NR10	**25,803**
	12 x 28	16	70	6	1	10282NR12	**25,803**
	1/4 x 28	17	80	7	1	102821/4	**25,803**
	5/16 x 24	17	90	8	1	102825/16	**32,663**
	3/8 x 24	18	100	9	1	102823/8	**35,996**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10283 HSS-CO ≃ DIN 376/B — UNF

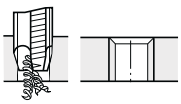
HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
UNF	**7/16** x 20	22	100	8	1	102837/16	**41,492**
	1/2 x 20	22	100	9	1	102831/2	**41,492**
	9/16 x 18	22	100	11	1	102839/16	**63,528**
	5/8 x 18	22	100	12	1	102835/8	**63,528**
	3/4 x 16	25	110	14	1	102833/4	**124,391**
	7/8 x 14	26	140	18	1	102837/8	**149,461**
	1” x 14	28	150	20	1	102831	**166,590**
	1.1/4 x 12	30	150	22	1	102831.1/4	**234,242**
	1.1/2 x 12	33	170	32	1	102831.1/2	**541,594**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10284 HSS-CO ANSI B1.1 ≃ DIN 371/C-35° UNF

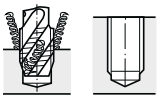
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
UNF	**6** x 40	7	56	4	1	10284NR06	**33,526**
	8 x 36	8	63	4,5	1	10284NR08	**33,526**
	10 x 32	10	70	6	1	10284NR10	**33,526**
	12 x 28	10	70	6	1	10284NR12	**33,526**
	1/4 x 28	10	80	7	1	102841/4	**33,526**
	5/16 x 24	10	90	8	1	102845/16	**40,484**
	3/8 x 24	10	100	9	1	102843/8	**46,206**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

10285 HSS-CO ≃ DIN 376/C-35° UNF

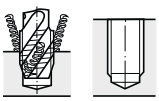
HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
UNF	**7/16** x 20	13	100	8	1	102857/16	**51,268**
	1/2 x 20	13	100	9	1	102851/2	**51,268**
	9/16 x 18	15	100	11	1	102859/16	**76,896**
	5/8 x 18	15	100	12	1	102855/8	**76,896**
	3/4 x 16	17	110	14	1	102853/4	**171,345**
	7/8 x 14	17	140	18	1	102857/8	**188,479**
	1" x 14	20	150	20	1	102851	**207,324**
	1.1/4 x 12	22	150	22	1	102851.1/4	**309,349**
	1.1/2 x 12	25	170	32	1	102851.1/2	**669,940**



R ≤ 850 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

MASCHI A MACCHINA AL COBALTO CORTI ISO 529
FILETTATURA AMERICANA UNEF
Short machine taps, American UNEF thread

10305 **HSS-CO** **ISO 529-2B** **UNEF**

HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti
Threads



R ≤ 850 N/mm²

Applicazioni
Applications

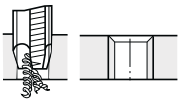
Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

	Ø	l	L	d	pcs	cod.	€ cad/each
UNEF	**1/4** x 32	19	66	6,3	1	103051/4	**22,000**
	5/16 x 32	23	75	10,0	1	103055/16	**31,167**
	3/8 x 32	24	80	10,0	1	103053/8	**31,167**
	1/2 x 28	29	89	9,0	1	103051/2	**36,670**
	9/16 x 24	30	95	11,2	1	103059/16	**55,304**
	5/8 x 24	32	102	12,5	1	103055/8	**56,524**
	3/4 x 20	37	112	14,0	1	103053/4	**104,506**
	7/8 x 20	38	118	16,0	1	103057/8	**128,340**
	1” x 20	45	130	18,0	1	103051	**146,668**
	1.1/16 x 18	48	138	20,0	1	103051.1/16	**172,649**
	1.1/8 x 18	48	138	20,0	1	103051.1/8	**172,649**
	1.1/4 x 18	51	151	22,4	1	103051.1/4	**201,667**
	1.1/2 x 18	60	170	28,0	1	103051.1/2	**330,006**
	1.3/4 x 18	67	187	31,5	1	103051.3/4	**446,118**
	2” x 18	70	200	35,5	1	103052	**690,570**



MASCHI A MACCHINA IN HSS, SCANALATURE DIRITTE, IMB. CORRETTO, FIL. METRICA ISO PASSO GROSSO
Machine taps, spiral point, metric thread

10162 HSS-G DIN 371/B ISO 2/6H

M

HSS-G AISI M2
HV 750

FORM B

4-5 Filetti
Threads



R ≤ 850 N/mm²

Applicazioni
Applications

Acciaio
Steel

Olio
Oil

Metalli
Metals

Art. 10163 Self
Disponibile su richiesta
On demand

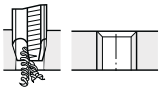
	Ø	l	L	d	pcs	cod.	€ cad/each
M	**2** x 0,4	8	45	2,8	1	1016202x04	**17,769**
	2,5 x 0,45	9	50	2,8	1	10162025x045	**17,769**
	3 x 0,5	11	56	3,5	1	1016203x05	**12,279**
	3,5 x 0,6	13	56	4	1	10162035x06	**20,303**
	4 x 0,7	13	63	4,5	1	1016204x07	**12,393**
	5 x 0,8	16	70	6	1	1016205x08	**12,667**
	6 x 1	19	80	6	1	1016206x1	**12,992**
	7 x 1	19	80	7	1	1016207x1	**18,211**
	8 x 1,25	22	90	8	1	1016208x125	**15,708**
	10 x 1,5	24	100	10	1	1016210x15	**18,211**



Art. 10240300
€ 99,420
7 pcs
M 3÷12



Art. 10240306
€ 121,958
14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



≤ 3 Ø

Per fori passanti in acciai con R ≤ 850 N/mm², ghisa, metalli non ferrosi a truciolo lungo.
For through holes in steel with R ≤ 850 N/mm², cast iron, non ferrous metals with long chip

10165 HSS-G DIN 376/B ISO 2/6H

M

HSS-G AISI M2
HV 750

FORM B

4-5 Filetti
Threads

Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3



R ≤ 850 N/mm²

Applicazioni
Applications

Acciaio
Steel

Olio
Oil

Metalli
Metals

Art. 10166 Self
Disponibile su richiesta
On demand

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	2,2	1	1016503X05	**13,618**
	4 x 0,7	13	63	2,8	1	1016504X07	**13,981**
	5 x 0,8	16	70	3,5	1	1016505X08	**14,370**
	6 x 1	19	80	4,5	1	1016506X1	**14,645**
	8 x 1,25	22	90	6	1	1016508X125	**15,745**
	10 x 1,5	24	100	7	1	1016510X15	**18,476**
	12 x 1,75	29	110	9	1	1016512X175	**21,591**
	14 x 2	30	110	11	1	1016514X2	**27,138**
	16 x 2	30	110	12	1	1016516X2	**33,056**
	18 x 2,5	34	125	14	1	1016518X25	**45,360**
	20 x 2,5	34	140	16	1	1016520X25	**47,713**
	22 x 2,5	34	140	18	1	1016522X25	**60,600**
	24 x 3	38	160	18	1	1016524X3	**72,336**
	27 x 3	38	160	20	1	1016527X3	**141,340**
	30 x 3,5	45	180	22	1	1016530X35	**170,582**
	33 x 3,5	50	180	25	1	1016533X35	**249,915**
	36 x 4	56	200	28	1	1016536X4	**251,812**
	39 x 4	60	200	32	1	1016539X4	**321,669**
	42 x 4,5	60	200	32	1	1016542X45	**362,283**
	45 x 4,5	65	220	36	1	1016545X45	**422,395**
	48 x 5	70	250	36	1	1016548X5	**513,369**
	52 x 5	70	250	40	1	1016552X5	**573,479**



≤ 3 Ø

Per fori passanti in acciai con R ≤ 850 N/mm², ghisa, metalli non ferrosi a truciolo lungo.
For through holes in steel with R ≤ 850 N/mm², cast iron, non ferrous metals with long chip

10168 HSS-G DIN 371/C ISO 2/6H

M

HSS-G AISI M2
HV 750

FORM C

2-3 Filetti
Threads



R ≤ 700 N/mm²

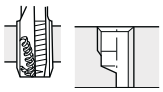
Applicazioni
Applications

Acciaio
Steel

Olio
Oil

Metalli
Metals

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**2** x 0,4	8	45	2,8	1	1016802X04	**17,798**
	2,3 x 0,4	9	45	2,8	1	10168023X04	**17,798**
	2,5 x 0,45	9	50	2,8	1	10168025X045	**17,798**
	2,6 x 0,45	9	50	2,8	1	10168026X045	**17,798**
	3 x 0,5	11	56	3,5	1	1016803X05	**11,434**
	3,5 x 0,6	13	56	4	1	10168035X06	**18,044**
	4 x 0,7	13	63	4,5	1	1016804X07	**11,434**
	5 x 0,8	16	70	6	1	1016805X08	**11,695**
	6 x 1	19	80	6	1	1016806X1	**12,426**
	7 x 1	19	80	7	1	1016807X1	**15,307**
	8 x 1,25	22	90	8	1	1016808X125	**13,964**
	10 x 1,5	24	100	10	1	1016810X15	**16,780**



≤ 1,5 Ø

Per fori ciechi e passanti in acciai e ghisa con R 700≤*N/mm²
*For blind and trough holes in steel with R 700≤*N/mm²*

10171 HSS-G DIN 376/C ISO 2/6 H

M

Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3

FORM C

2-3 Filetti
Threads



R ≤ 700 N/mm²

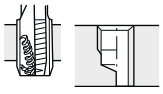
Applicazioni
Applications

Acciaio
Steel

Olio
Oil

Metalli
Metals

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	2,2	1	1017103X05	**12,882**
	4 x 0,7	13	63	2,8	1	1017104X07	**13,116**
	5 x 0,8	16	70	3,5	1	1017105X08	**13,586**
	6 x 1	19	80	4,5	1	1017106X1	**13,782**
	8 x 1,25	22	90	6	1	1017108X125	**14,812**
	10 x 1,5	24	100	7	1	1017110X15	**17,380**
	12 x 1,75	29	110	9	1	1017112X175	**20,835**
	14 x 2	30	110	11	1	1017114X2	**25,725**
	16 x 2	32	110	12	1	1017116X2	**30,275**
	18 x 2,5	34	125	14	1	1017118X25	**48,416**
	20 x 2,5	34	140	16	1	1017120X25	**51,490**
	22 x 2,5	34	140	18	1	1017122X25	**64,821**
	24 x 3	38	160	18	1	1017124X3	**70,892**
	27 x 3	38	160	20	1	1017127X3	**121,850**
	30 x 3,5	45	180	22	1	1017130X35	**148,917**
	33 x 3,5	50	180	25	1	1017133X35	**191,224**
	36 x 4	56	200	28	1	1017136X4	**213,223**
	39 x 4	60	200	32	1	1017139X4	**277,527**
	42 x 4,5	60	200	32	1	1017142X45	**309,679**
	45 x 4,5	65	220	36	1	1017145X45	**355,380**
	48 x 5	70	250	36	1	1017148X5	**426,444**
	52 x 5	70	250	40	1	1017152X5	**504,297**



≤ 1,5 Ø

Per fori ciechi e passanti in acciai e ghisa con R 700≤*N/mm²
*For blind and trough holes in steel with R 700≤*N/mm²*

MASCHI A MACCHINA IN HSS, SCANALATURE DESTRE 15°, IMB. “C”, FIL.METRICA ISO PASSO GROSSO
Machine taps, 15° spiral flute, metric thread

10174 HSS-G DIN 371/C-15° ISO 2/6H

M

HSS-G AISI M2
HV 750



FORM C



2-3 Filetti
Threads

R ≤ 700 N/mm²

Applicazioni
Applications

Acciaio
Steel

Olio
Oil

Metalli
Metals

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	3,5	1	1017403X05	**14,720**
	4 x 0,7	13	63	4,5	1	1017404X07	**15,020**
	5 x 0,8	16	70	6	1	1017405X08	**15,164**
	6 x 1	19	80	6	1	1017406X1	**15,672**
	8 x 1,25	22	90	8	1	1017408X125	**17,288**
	10 x 1,5	24	100	10	1	1017410X15	**20,614**



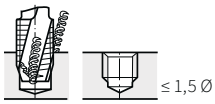
Art. 10240311
€ 100,743

7 pcs
M 3÷12



Art. 10240312
€ 124,606

14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



≤ 1,5 Ø

Per fori ciechi in acciai con R≤*N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo.

*For blind holes in steel with R≤*N/mm², malleable cast iron, non ferrous metals with long chip.*

10177 HSS-G DIN 376/C-15° ISO 2/6H

M

HSS-G AISI M2
HV 750
Gambo cilindrico
Ø ≤ M3
Round shank
Ø ≤ M3



FORM C



2-3 Filetti
Threads

R ≤ 700 N/mm²

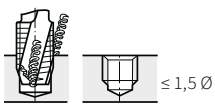
Applicazioni
Applications

Acciaio
Steel

Olio
Oil

Metalli
Metals

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	11	56	2,2	1	1017703X05	**15,933**
	4 x 0,7	13	63	2,8	1	1017704X07	**16,754**
	5 x 0,8	16	70	3,5	1	1017705X08	**16,923**
	6 x 1	19	80	4,5	1	1017706X1	**17,198**
	8 x 1,25	22	90	6	1	1017708X125	**18,411**
	10 x 1,5	24	100	7	1	1017710X15	**23,586**
	12 x 1,75	29	110	9	1	1017712X175	**26,768**
	14 x 2	30	110	11	1	1017714X2	**32,779**
	16 x 2	30	110	12	1	1017716X2	**38,254**
	18 x 2,5	34	125	14	1	1017718X25	**59,181**
	20 x 2,5	34	140	16	1	1017720X25	**63,005**
	22 x 2,5	34	140	18	1	1017722X25	**79,574**
	24 x 3	38	160	18	1	1017724X3	**86,085**



≤ 1,5 Ø

Per fori ciechi in acciai con R≤*N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo.

*For blind holes in steel with R≤*N/mm², malleable cast iron, non ferrous metals with long chip.*

MASCHI A MACCHINA IN HSS, SCANALATURE DESTRE 35°, IMB. "C", FIL. METRICA ISO
Machine taps, 35° spiral flute, metric coarse thread

10183 HSS-G DIN 371/C-35° ISO 2/6H

M

HSS-G AISI M2
HV 750

FORM C

2-3 Filetti
Threads



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**2** x 0,4	6	45	2,8	1	1018302X04	**28,828**
	2,5 x 0,45	6	50	2,8	1	10183025X045	**28,828**
	3 x 0,5	6	56	3,5	1	1018303X05	**16,610**
	3,5 x 0,6	13	56	4	1	10183035X06	**23,729**
	4 x 0,7	7	63	4,5	1	1018304X07	**16,610**
	5 x 0,8	8	70	6	1	1018305X08	**16,780**
	6 x 1	10	80	6	1	1018306X1	**17,563**
	7 x 1	19	80	7	1	1018307X1	**24,773**
	8 x 1,25	14	90	8	1	1018308X125	**19,257**
	10 x 1,5	16	100	10	1	1018310X15	**23,040**



Art. 10240305
€ 119,299
7 pcs
M 3÷12



Art. 10240307
€ 135,206
14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



Art. 10240310
€ 209,441
14 pcs
DIN 371/
B+371/C 35°

R ≤ 700 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

10180 HSS-G DIN 376/C-35° ISO 2/6H

M

HSS-G AISI M2
HV 750

FORM C

2-3 Filetti
Threads

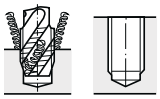


	Ø	l	L	d	pcs	cod.	€ cad/each
M	**3** x 0,5	5	56	2,2	1	1018003X05	**18,462**
	4 x 0,7	7	63	2,8	1	1018004X07	**18,462**
	5 x 0,8	8	70	3,5	1	1018005X08	**18,708**
	6 x 1	10	80	4,5	1	1018006X1	**19,034**
	8 x 1,25	13	90	6	1	1018008X125	**20,170**
	10 x 1,5	15	100	7	1	1018010X15	**25,203**
	12 x 1,75	18	110	9	1	1018012X175	**29,350**
	14 x 2	20	110	11	1	1018014X2	**37,172**
	16 x 2	22	110	12	1	1018016X2	**45,229**
	18 x 2,5	25	125	14	1	1018018X25	**59,506**
	20 x 2,5	25	140	16	1	1018020X25	**72,285**
	22 x 2,5	25	140	18	1	1018022X25	**88,720**
	24 x 3	30	160	18	1	1018024X3	**96,537**
	27 x 3	30	160	20	1	1018027X3	**144,266**
	30 x 3,5	35	180	22	1	1018030X35	**175,289**
	33 x 3,5	35	180	25	1	1018033X35	**280,140**
	36 x 4	40	200	28	1	1018036X4	**304,290**
	39 x 4	40	200	32	1	1018039X4	**392,196**
	42 x 4,5	45	200	32	1	1018042X45	**459,816**
	45 x 4,5	45	220	36	1	1018045X45	**513,912**
	48 x 5	50	250	36	1	1018048X5	**568,008**
	52 x 5	50	250	40	1	1018052X5	**676,200**

R ≤ 700 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*



≤ 3 Ø

Per fori ciechi in acciai con R≤*N/mm² ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

*For blind holes in steel with R≤*N/mm² malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.*

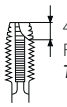
MASCHI A MACCHINA IN HSS "CORTI"
ISO 529
Short machine taps ISO 529

10172 HSS-G ISO 529/B

M - Corti



FORM B



4-5 Filetti
Threads

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**2** x 0,4	8	41	2,5	1	1017202X04	**19,256**
	2,5 x 0,45	9,5	44,5	2,8	1	10172025X045	**19,256**
	2,6 x 0,45	9,5	44,5	2,9	1	10172026X045	**19,256**
	3 x 0,5	11	48	3,15	1	1017203X05	**11,384**
	3,5 x 0,6	13	50	3,55	1	10172035X06	**12,144**
	4 x 0,7	13	53	4	1	1017204X07	**11,384**
	5 x 0,8	16	58	5	1	1017205X08	**13,471**
	6 x 1	19	66	6,3	1	1017206X1	**13,471**
	8 x 1,25	22	72	8	1	1017208X125	**15,549**
	10 x 1,5	24	80	10	1	1017210X15	**19,703**
	12 x 1,75	29	89	9	1	1017212X175	**26,930**

Applicazioni
Applications



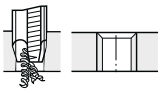
Acciaio
Steel



Metalli
Metals



Olio
Oil



≤ 3 Ø

Per fori passanti in acciai con R≤*N/mm², ghisa, metalli non ferrosi a truciolo lungo.
*For through holes in steel with R≤*N/mm², cast iron, non ferrous metals with long chip*



Art. 10240313
€ 108,466
7 pcs HSS
M 3÷12

10173 HSS-G ISO 529/C 35°

M - Corti



FORM C



2-3 Filetti
Threads

	Ø	l	L	d	pcs	cod.	€ cad/each
M	**2,5** x 0,45	9,5	44,5	2,8	1	10173025X045	**25,312**
	2,6 x 0,45	9,5	44,5	2,9	1	10173026X045	**25,312**
	3 x 0,5	11	48	3,15	1	1017303X05	**16,018**
	4 x 0,7	13	53	4	1	1017304X07	**16,018**
	5 x 0,8	16	58	5	1	1017305X08	**16,629**
	6 x 1	19	66	6,3	1	1017306X1	**16,629**
	8 x 1,25	22	72	8	1	1017308X125	**18,705**
	10 x 1,5	24	80	10	1	1017310X15	**24,408**
	12 x 1,75	29	89	9	1	1017312X175	**33,162**

Applicazioni
Applications



Acciaio
Steel



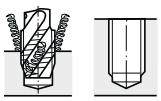
Metalli
Metals



Alluminio
Aluminum



Olio
Oil



≤ 3 Ø

Per fori ciechi in acciai con R≤*N/mm² ghisa malleabile, metalli non ferrosi a truciolo lungo, acciai resistenti al calore, acciai inox.

*For blind holes in steel with R≤*N/mm² malleable cast iron, non ferrous metal with long chips, stainless steel, heat resistant steel.*



Art. 10240314
€ 124,827
7 pcs HSS
M 3÷12

UTENSILE COMBINATO IN HSS CON ATTACCO ESAGONALE 1/4”
PER AVVITATORI E TRAPANI REVERSIBILI
Combined bits for drilling-threading-deburring in one operation with 1/4” hexagon drive

10230 HSS-G TiN

M



R ≤ 1200 N/mm²

Applicazioni
Applications

Metalli *Metals*
Alluminio *Aluminum*
Leghe leggere *Light alloys*
Plastica *Plastic*

	Ø		l	L	⬡	pcs	cod.	€ cad/each
M	**3**	x 0,5	2,5	36	1/4	1	1023003x05	**16,064**
	4	x 0,7	3,3	39	1/4	1	1023004x07	**16,064**
	5	x 0,8	4,2	41	1/4	1	1023005x08	**16,064**
	6	x 1	5	44	1/4	1	1023006x1	**16,064**
	8	x 1,25	6,8	50	1/4	1	1023008x125	**21,052**
	10	x 1,5	8,5	59	1/4	1	1023010x15	**21,052**

10212 HSS-G

M



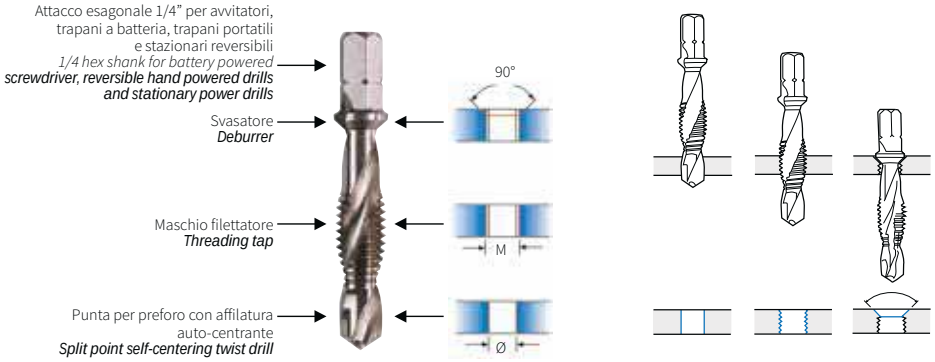
R ≤ 600 N/mm²

Applicazioni
Applications

Metalli *Metals*
Leghe leggere *Light alloys*
Plastica *Plastic*

Art. 10213 Self
Disponibile su richiesta
On demand

	Ø		l	L	⬡	pcs	cod.	€ cad/each
M	**3**	x 0,5	2,5	36	1/4	1	1021203x05	**11,030**
	4	x 0,7	3,3	39	1/4	1	1021204x07	**11,030**
	5	x 0,8	4,2	41	1/4	1	1021205x08	**11,030**
	6	x 1	5	44	1/4	1	1021206x1	**11,030**
	8	x 1,25	6,8	50	1/4	1	1021208x125	**12,583**
	10	x 1,5	8,5	59	1/4	1	1021210x15	**12,583**



Per forare, filettare e svasare in acciaio, alluminio, metalli non ferrosi in genere, plastica sino a R≤600 N/mm² e profondità 1xD.

Drilling, threading and deburring in steel, aluminium, plastics with R≤600 N/mm² and depth 1xD.

MASCHI IN HSS CON ATTACCO ESAGONALE 1/4”
PER FILETTARE CON AVVITATORI E TRAPANI REVERSIBILI
Threading bits with 1/4” hex drive

10210 HSS-G

M

FORM B

4-5 Filetti *Threads*

R ≤ 700 N/mm²



	Ø	l	L	⬡	pcs	cod.	€ cad/each
M	**3** x 0,5	11	33	1/4	1	1021003x05	**9,336**
	4 x 0,7	12	35	1/4	1	1021004x07	**9,336**
	5 x 0,8	15	36	1/4	1	1021005x08	**10,198**
	6 x 1	18	39	1/4	1	1021006x1	**10,198**
	8 x 1,25	19	40	1/4	1	1021008x125	**11,060**
	10 x 1,5	21	41	1/4	1	1021010x15	**11,441**

Applicazioni *Applications*

Acciaio *Steel*

Metalli *Metals*

Olio *Oil*

MASCHI A MACCHINA IN HSS, SCANALATURE DIRITTE, IMBOCCO “C”, FIL. METRICA ISO A PASSO FINE
Machine taps, “C” chamfer form, metric fine thread

10198 HSS-G DIN 374/C-15° ISO 2/6H

MF

HSS-CO AISI M35
HV 820÷850

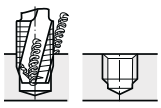
FORM C

2-3 Filetti *Threads*

R ≤ 700 N/mm²



	Ø	l	L	d	pcs	cod.	€ cad/each
M	**4** x 0,5	10	63	2,8	1	1019804X05	**14,126**
	5 x 0,5	12	70	3,5	1	1019805X05	**14,300**
	6 x 0,75	14	80	4,5	1	1019806X075	**14,343**
	8 x 1	22	90	6,0	1	1019808X1	**14,452**
	10 x 1	20	90	7,0	1	1019810X1	**14,840**
	10 x 1,25	24	100	7,0	1	1019810X125	**20,182**
	12 x 1	22	100	9,0	1	1019812X1	**17,612**
	12 x 1,25	22	100	9,0	1	1019812X125	**22,107**
	14 x 1,25	22	100	11,0	1	1019814X125	**24,860**
	14 x 1,5	22	100	11,0	1	1019814X15	**22,516**
	22 x 1,5	25	125	18,0	1	1019822X15	**41,382**
	24 x 1,5	28	140	18,0	1	1019824X15	**41,382**
	24 x 2	28	140	18,0	1	1019824X2	**44,287**



≤ 1,5 Ø

Per fori ciechi in acciai con R≤*N/mm², ghisa malleabile, metalli non ferrosi a truciolo lungo.

*For blind holes in steel with R≤*N/mm², malleable cast iron, non ferrous metals with long chip.*

Applicazioni *Applications*

Acciaio *Steel*

Metalli *Metals*

Olio *Oil*

MASCHI A MACCHINA IN HSS,
FILETTATURA GAS CILINDRICA BSP
Machine taps, BSP pipe-thread

10204 **HSS-G** **DIN 374/C-15°** **BSP**

R ≤ 700 N/mm²

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

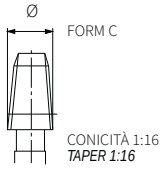
Olio *Oil*



	Ø	l	L	d	pcs	cod.	€ cad/each
G	**1/8** x 28	20	90	7	1	102041/8	**13,812**
	1/4 x 19	22	100	11	1	102041/4	**22,714**
	3/8 x 19	22	100	12	1	102043/8	**23,877**
	3/4 x 14	28	140	20	1	102043/4	**51,978**
	1” x 11	30	160	25	1	102041	**76,110**

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI,
FILETTATURA GAS CONICA BSPT
BSPT taped thread taps

10139 **HSS-G** **BSPT - Conici**





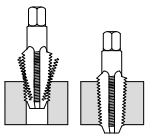
R ≤ 700 N/mm²

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

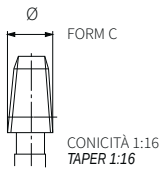
Olio *Oil*



	Ø	l	L	pcs	cod.	€ cad/each
	1/8 x 28	15	59	1	101391/8	**39,555**
	1/4 x 19	19	67	1	101391/4	**45,825**
	3/8 x 19	21	75	1	101393/8	**56,665**
	1/2 x 14	26	87	1	101391/2	**75,506**
	3/4 x 14	28	96	1	101393/4	**118,073**
	1” x 11	33	109	1	101391	**169,019**
	1.1/4 x 11	36	119	1	101391.1/4	**291,281**
	1.1/2 x 11	37	125	1	101391.1/2	**378,788**
	2” x 11	41	140	1	101392	**673,659**

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI,
FILETTATURA AMERICANA NPT - BSPT
NPT taper thread taps

10134 **HSS-G** **ANSI B 2.1** **NPT - Conici**





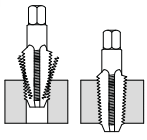
R ≤ 700 N/mm²

Applicazioni
Applications

Acciaio *Steel*

Metalli *Metals*

Olio *Oil*



	Ø	l	L	pcs	cod.	€ cad/each
NPT	**1/16** x 27	19	54	1	101341/16	**34,864**
	1/8 x 27	19	54	1	101341/8	**39,555**
	1/4 x 18	27	62	1	101341/4	**45,825**
	3/8 x 18	27	65	1	101343/8	**56,665**
	1/2 x 14	35	79	1	101341/2	**85,801**
	3/4 x 14	35	83	1	101343/4	**141,445**
	1” x 11,5	44	95	1	101341	**221,762**
	1.1/4 x 11,5	44	102	1	101341.1/4	**353,607**
	1.1/2 x 11,5	44	108	1	101341.1/2	**460,290**
	2” x 11,5	44	114	1	101342	**825,890**


KRINO



UTENSILI A FILETTARE: MASCHI A MANO

THREADING TOOLS: HAND TAPS

VISIONE D'INSIEME: MASCHI A MANO
Overview: hand taps

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	FILETTATURA *THREAD*	SPECIALITÀ *FEATURES*	DIAMETRO FORO *HIOLE DIAMETER*	NORMA *STANDARD*	N° PEZZI *N. OF PIECES*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	ACCIAO <1400 N/mm *STEEL <1400 N/MM*	ACCIAO <900 N/mm *STEEL <900 N/MM*	ACCIAO <700 N/mm *ACCIAO <700 N/MM*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM/ALLOYS*	R≤N/mm²	COD.	
HSS Co	VAPO	M	-	3÷12	352	3		✓	✓	✓	✓	✓	✓	1400	10147	308
	-		-	3÷30	352	3		✓	✓	✓	✓	✓	✓	1200	10144	308
	-	MF	-	6÷24	2181	2		✓	✓	✓	✓	✓	✓	1200	10146	309
	-	BSP	-	1/8÷1"	5157	2		✓	✓	✓	✓	✓	✓	1200	10148	309
HSS-G	TiN	M	-	3÷20	352	3		✓		✓	✓	✓	✓	950	10155	311
	-		-	1÷72	352	3				✓	✓	✓	✓	800	10100	310
	-		FINITORE *FINITORE*	3÷30	352	1				✓	✓	✓	✓	800	10100	310
	-		SINISTRI *SINISTRI*	3÷52	352	3				✓	✓	✓	✓	800	10102	311
	-	MF	-	2÷82	2181	2				✓	✓	✓	✓	800	10105	312
	-		PER TUBI CONDUZIONE ELETTRICA *PER TUBI CONDUZIONE ELETTRICA*	12÷63	2181	2				✓	✓	✓	✓	800	10105	312
	-		SINISTRI *SINISTRI*	6÷38	2181	2				✓	✓	✓	✓	800	10107	314
	-	BSP	PER TUBI *PER TUBI*	1/8÷4"	5157	2				✓	✓	✓	✓	800	10115	315
	-		SINISTRI *SINISTRI*	1/8÷2"	5157	2				✓	✓	✓	✓	800	10117	315
	-	BSPT	CONICI 1:16 *CONICI 1:16*	1/8÷2"	-	1				✓	✓	✓	✓	800	10139	303
	-	BSF	-	3÷16÷1"	2181	2				✓	✓	✓	✓	800	10112	316
	-	BSW	-	1/16÷2"	352	3				✓	✓	✓	✓	800	10110	317
	-		SINISTRI *SINISTRI*	1/8÷1"	352	3				✓	✓	✓	✓	800	10111	317
	-	NPT	CONICI 1:16 *CONICI 1:16*	1/16÷2"	ANSI B2.1	1				✓	✓	✓	✓	800	10134	303
	-	UNC	-	1÷2"	352	3				✓	✓	✓	✓	800	10120	319
	-		SINISTRI *SINISTRI*	6 ÷ 1"	352	3				✓	✓	✓	✓	800	10122	319

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	FILETTATURA *THREAD*	SPECIALITÀ *FEATURES*	DIAMETRO FORO *HIOLE DIAMETER*	NORMA *STANDARD*	N° PEZZI *N. OF PIECES*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	ACCIAIO <1400 N/mm *STEEL <1400 N/MM*	ACCIAIO <900 N/mm *STEEL <900 N/MM*	ACCIAIO <700 N/mm *ACCIAO <700 N/MM*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM/ALLOYS*	R≤N/mm²	COD.	
HSS-G	-	UNF	-	0÷1.1/2	2181	2				✓	✓	✓	✓	800	10125	320
	-		SINISTRI *SINISTRI*	10÷1"	2181	2				✓	✓	✓	✓	800	10127	320
	-	Pg	PER TUBI CONDUZIONE ELETTRICA *PER TUBI CONDUZIONE ELETTRICA*		40432	2				✓	✓	✓	✓	800	10136	321
	-	M + MF	STI - PER INSERIMENTO INSERTI FILETTATI *STI - PER INSERIMENTO INSERTI FILETTATI*	2÷36	ISO 1/4 H	1				✓	✓	✓	✓	800	10612	405
	-	BSP		1/8÷1"		2				✓	✓	✓	✓	800	10617	406
	-	BSF		3/16÷1"		1				✓	✓	✓	✓	800	10616	406
	-	BSW		1/8÷1"		1				✓	✓	✓	✓	800	10615	406
	-	UNC		8÷1"		1				✓	✓	✓	✓	800	10613	406
	-	UNF		8÷1"		1				✓	✓	✓	✓	800	10614	406
	-	M + MF	COMBI - PER INSERTI FILETTATI - SPECIALE CANDELE *COMBI - PER INSERTI FILETTATI - SPECIALE CANDELE*	6÷18		1				✓	✓	✓	✓	800	10620	405
C.V.	-	M	-	2÷36	4535	3					✓	✓	✓	600	10001	322
	-		FINITORE *FINITORE*	2÷16	4535	1					✓	✓	✓	600	10001	322
	-		PER FORI PASSANTI SPECIALI PER DADI *PER FORI PASSANTI SPECIALI PER DADI*	3÷12	357	1					✓	✓	✓	600	10030	323
	-	M + MF	-	2÷30	4535	2					✓	✓	✓	600	10003	324
	-	MF	FINITORE *FINITORE*	6÷18	4535	1					✓	✓	✓	600	10003	324
	-	BSP	PER TUBI *PER TUBI*	1/8÷2"	338	2					✓	✓	✓	600	10015	326
	-	BSPT	CONICI 1:16 *CONICI 1:16*	1/8÷2"	6125	1					✓	✓	✓	600	10017	326
	-	BSF	-	3/16÷1"	2709	2					✓	✓	✓	600	10012	326
	-	BSW	-	1/8÷2"	2709	3					✓	✓	✓	600	10010	327
	-	NPT	CONICI 1:16 *CONICI 1:16*	1/8÷2"	ANSI B2.1	1					✓	✓	✓	600	10032	327
	-	UNC	-	5÷1.1/2	ANSI B1.1	3					✓	✓	✓	600	10020	328
	-	UNF	-	5÷1.1/2	ANSI B1.1	2					✓	✓	✓	600	10025	329

MASCHI A MANO AL COBALTO SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO
Hand taps, 3 pcs set, metric coarse ISO thread

10147 HSS-CO VAPO DIN 352 ISO 2/6H

M

HRC = 64÷65
AISI M35



R ≤ 1400 N/mm²

	Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	11	40	1	1014703X05	**61,012**
	4 x 0,7	13	45	1	1014704X07	**61,012**
	5 x 0,8	16	50	1	1014705X08	**64,836**
	6 x 1	19	56	1	1014706X1	**64,836**
	8 x 1,25	22	63	1	1014708X125	**72,483**
	10 x 1,5	24	70	1	1014710X15	**97,289**
	12 x 1,75	29	75	1	1014712X175	**131,007**

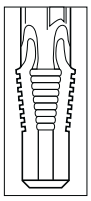
Finitura: Ossidazione in vapore di Fe_3O_4 che aumenta la durezza superficiale e la resistenza a usura riducendo la tendenza all'incollamento dei trucioli.

Finish: Steam Tempered of Fe_3O_4, increasing surface hardness and wear resistance.

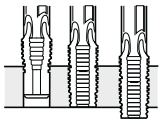
Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Olio *Oil*
Metalli *Metals* · Alluminio *Aluminum*

1



1 2 3



Sbozzatore con guida
Taper with guide

10144 HSS-CO DIN 352 ISO 2/6H

M

HRC = 64÷65
AISI M35



R ≤ 1200 N/mm²

	Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	11	40	1	1014403X05	**26,258**
	4 x 0,7	13	45	1	1014404X07	**26,258**
	5 x 0,8	14	50	1	1014405X08	**27,171**
	6 x 1	16	56	1	1014406X1	**28,502**
	8 x 1,25	18	63	1	1014408X125	**31,381**
	10 x 1,5	24	70	1	1014410X15	**39,884**
	12 x 1,75	29	75	1	1014412X175	**51,044**
	14 x 2	30	80	1	1014414X2	**69,403**
	16 x 2	32	80	1	1014416X2	**83,772**
	18 x 2,5	40	95	1	1014418X25	**142,430**
	20 x 2,5	40	95	1	1014420X25	**152,299**
	22 x 2,5	40	100	1	1014422X25	**180,515**
	24 x 3	50	110	1	1014424X3	**233,530**
	27 x 3	50	110	1	1014427X3	**308,127**
	30 x 3,5	56	125	1	1014430X35	**392,465**

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Olio *Oil*
Metalli *Metals* · Alluminio *Aluminum*

Per filettature in acciai molto duri ed abrasivi, acciai inox, acciai resistenti al calore con R≤1200 N/mm².

For thread in stainless steel, heat-resistant steel, high alloy steel R≤1200 N/mm².

MASCHI A MANO AL COBALTO SERIE DI 2 PEZZI, FILETTATURA METRICA ISO A PASSO FINE
Hand taps, 2 pcs set, metric fine ISO thread

10146 HSS-CO DIN 2181 ISO 2/6H MF



HRC ≃ 64÷65
AISI M35

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

	Ø	l	L	pcs	cod.	€ cad/each
M	**6** x 0,75	14	50	1	1014606x075	**38,045**
	8 x 0,75	19	50	1	1014608x075	**44,734**
	8 x 1	22	56	1	1014608x1	**38,045**
	10 x 1	20	63	1	1014610x1	**40,615**
	10 x 1,25	24	70	1	1014610x125	**50,445**
	12 x 1	22	70	1	1014612x1	**52,449**
	12 x 1,25	22	70	1	1014612x125	**66,576**
	12 x 1,5	22	70	1	1014612x15	**50,684**
	14 x 1,25	22	70	1	1014614x125	**73,116**
	14 x 1,5	22	70	1	1014614x15	**63,320**
	16 x 1,5	22	70	1	1014616x15	**67,724**
	18 x 1,5	22	80	1	1014618x15	**88,347**
	18 x 2	22	80	1	1014618x2	**113,216**
	20 x 1,5	22	80	1	1014620x15	**97,168**
	20 x 2	22	80	1	1014620x2	**121,003**
	22 x 1,5	22	80	1	1014622x15	**124,102**
	22 x 2	22	80	1	1014622x2	**142,717**
	24 x 1,5	22	90	1	1014624x15	**142,717**

Per filettature in acciai molto duri ed abrasivi, acciai inox, acciai resistenti al calore con R≤1200 N/mm².

For thread in stainless steel, heat-resistant steel, high alloy steel R≤1200 N/mm².

MASCHI A MANO AL COBALTO SERIE DI 2 PEZZI, FILETTATURA GAS CILINDRICA ISO 228 PER TUBI
Hand taps, 2 pcs set, Wh pipe thread ISO 228

10148 HSS-CO DIN 5157 BSP (GAS)



HRC ≃ 64÷65
AISI M35

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless*
Acciaio *Steel*
Olio *Oil*
Metalli *Metals*
Alluminio *Aluminum*

	Ø	l	L	pcs	cod.	€ cad/each
G	**1/8** x 28	20	63	1	101481/8	**45,090**
	1/4 x 19	22	70	1	101481/4	**59,593**
	3/8 x 19	22	70	1	101483/8	**81,496**
	1/2 x 14	22	80	1	101481/2	**119,880**
	3/4 x 14	22	90	1	101483/4	**174,373**
	1” x 11	25	100	1	101481	**276,537**

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO
Hand taps, 3 pcs set, metric coarse ISO thread

10100 **HSS-G** **DIN 352 ISO 2/6H** **M**

HRC = 63÷63,5
AISI M2

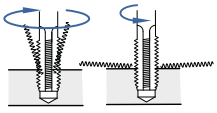


R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

Art. 10101 Self
Disponibile su richiesta
On demand



É buona norma, ad ogni rotazione del maschio (1), effettuare mezzo giro indietro (2) per rompere il truciolo

Please rotate clockwise the tap (1) then rotate anticlockwise (2) to break the chip.

Per filettature in fori ciechi e passanti in acciaio da costruzione, acciai da bonifica, materiali metallici in genere sino a R≤800 N/mm²

For making threads in blind and through holes in structural steel, malleable cast iron, heat-treatable steel R≤800 N/mm².



Maschio a mano finitore
Bottoming hand tap

HSS-G
DIN 352 III

	Ø	l	L	pcs	cod.	€ cad/each
M	**1** x 0,25	8	32	1	1010001X025	**132,559**
	1,1 x 0,25	8	32	1	10100011X025	**132,559**
	1,2 x 0,25	8	32	1	10100012X025	**132,559**
	1,4 x 0,3	10	32	1	10100014X03	**132,559**
	1,6 x 0,35	10	32	1	10100016X035	**132,559**
	1,7 x 0,35	10	32	1	10100017X035	**132,559**
	1,8 x 0,35	10	32	1	10100018X035	**132,559**
	2 x 0,4	10	36	1	1010002X04	**23,326**
	2,2 x 0,45	11	36	1	10100022X045	**31,358**
	2,3 x 0,4	11	36	1	10100023X04	**31,358**
	2,5 x 0,45	12	40	1	10100025X045	**26,038**
	2,6 x 0,45	12	40	1	10100026X045	**27,642**
	3 x 0,5	11	40	1	1010003X05	**16,585**
	3,5 x 0,6	14	45	1	10100035X06	**24,030**
	4 x 0,7	13	45	1	1010004X07	**17,406**
	4,5 x 0,75	16	50	1	10100045X075	**30,641**
	5 x 0,8	16	50	1	1010005X08	**18,097**
	5 x 1	16	56	1	1010005X1	**33,600**
	5,5 x 0,9	18	50	1	10100055x09	**48,568**
	6 x 1	19	56	1	1010006X1	**18,515**
	7 x 1	19	56	1	1010007X1	**25,099**
	8 x 1,25	22	63	1	1010008X125	**20,131**
	9 x 1,25	22	63	1	1010009X125	**32,505**
	10 x 1,5	24	70	1	1010010X15	**26,050**
	11 x 1,5	24	70	1	1010011X15	**45,935**
	12 x 1,75	28	75	1	1010012X175	**33,143**
	13 x 1,75	28	75	1	1010013X175	**86,001**
	14 x 2	30	80	1	1010014X2	**41,956**
	15 x 2	32	80	1	1010015x2	**86,027**
	16 x 2	32	80	1	1010016X2	**49,690**
	18 x 2,5	34	95	1	1010018X25	**83,446**
	20 x 2,5	34	95	1	1010020X25	**90,095**
	22 x 2,5	34	100	1	1010022X25	**104,696**
	24 x 3	38	110	1	1010024X3	**120,605**
	27 x 3	38	110	1	1010027X3	**170,671**
	28 x 3	38	110	1	1010028X3	**205,714**
	30 x 3,5	45	125	1	1010030X35	**230,654**
	33 x 3,5	50	132	1	1010033X35	**277,912**
	36 x 4	56	150	1	1010036X4	**325,368**
	39 x 4	56	150	1	1010039X4	**517,337**
	42 x 4,5	63	160	1	1010042X45	**539,835**
	45 x 4,5	63	160	1	1010045X45	**624,727**
	48 x 5	68	180	1	1010048X5	**874,330**
	52 x 5	68	180	1	1010052X5	**899,714**
	56 x 5,5	85	200	1	1010056X55	**1.116,892**
	60 x 5,5	85	200	1	1010060X55	**1.415,860**
	64 x 6	90	220	1	1010064X6	**1.499,055**
	68 x 6	90	220	1	1010068X6	**1.666,871**
	72 x 6	90	240	1	1010072X6	**4.041,847**

	* ≃ DIN 352 Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	12	40	1	1010003X053	**5,542**
	4 x 0,7	14	45	1	1010004X073	**5,803**
	5 x 0,8	14	50	1	1010005X083	**6,023**
	6 x 1	16	56	1	1010006X13	**6,168**
	8 x 1,25	18	63	1	1010008X1253	**6,713**
	10 x 1,5	25	70	1	1010010X153	**8,683**
	12 x 1,75	30	75	1	1010012X1753	**11,044**
	14 x 2	32	80	1	1010014X23	**13,991**
	16 x 2	32	80	1	1010016X23	**16,559**
	18 x 2,5	40	95	1	1010018X253	**26,559**
	20 x 2,5	40	95	1	1010020X253	**29,988**

MASCHI A MANO IN HSS CON RIVESTIMENTO AL TiN, SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO
Titan coated hand taps, metric coarse ISO thread

10155 | **HSS-G** | **TiN** | **DIN 352 ISO 2/6H** | **M**

HV 0,05 ≃ 2500
AISI M2



Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	12	40	1	1015503X05	**36,802**
	4 x 0,7	14	45	1	1015504X07	**29,868**
	4,5 x 0,75	16	50	1	10155045X075	**29,868**
	5 x 0,8	16	50	1	1015505X08	**30,467**
	6 x 1	18	56	1	1015506X1	**31,091**
	8 x 1,25	22	63	1	1015508X125	**48,449**
	10 x 1,5	25	70	1	1015510X15	**53,367**
	12 x 1,75	30	75	1	1015512X175	**69,859**
	14 x 2	32	80	1	1015514X2	**87,913**
	16 x 2	32	80	1	1015516X2	**95,769**
	18 x 2,5	40	95	1	1015518X25	**135,582**
	20 x 2,5	40	95	1	1015520X25	**178,391**

SINISTRI *LEFT HAND*

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA METRICA ISO SINISTRA A PASSO GROSSO
Hand taps, 3 pcs set, metric coarse ISO thread

10102 | **HSS-G** | **DIN 352 ISO 2/6H** | **M** | Sinistra *Left hand*

HRC = 63÷63,5
AISI M2



R ≤ 800 N/mm²

Applicazioni
Applications

- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
M	**3** x 0,5	11	40	1	1010203X05	**26,246**
	4 x 0,7	13	45	1	1010204X07	**26,246**
	5 x 0,8	14	50	1	1010205X08	**27,302**
	6 x 1	19	56	1	1010206X1	**28,802**
	7 x 1	19	56	1	1010207X1	**38,527**
	8 x 1,25	22	63	1	1010208X125	**31,071**
	10 x 1,5	24	70	1	1010210X15	**39,909**
	12 x 1,75	28	75	1	1010212X175	**51,187**
	14 x 2	30	80	1	1010214X2	**64,774**
	16 x 2	32	80	1	1010216X2	**78,320**
	18 x 2,5	34	95	1	1010218X25	**134,555**
	20 x 2,5	34	95	1	1010220X25	**144,386**
	22 x 2,5	34	100	1	1010222X25	**170,788**
	24 x 3	38	110	1	1010224X3	**215,991**
	27 x 3	38	110	1	1010227X3	**277,460**
	30 x 3,5	45	125	1	1010230X35	**385,414**
	33 x 3,5	56	125	1	1010233X35	**799,295**
	36 x 4	63	150	1	1010236X4	**931,595**
	39 x 4	63	150	1	1010239X4	**1.202,750**
	42 x 4,5	63	150	1	1010242X45	**1.342,676**
	45 x 4,5	70	160	1	1010245X45	**1.552,030**
	48 x 5	75	180	1	1010248X5	**2.219,289**
	52 x 5	75	180	1	1010252X5	**2.347,505**

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA METRICA ISO A PASSO FINE
Hand taps, 3 pcs set, metric coarse ISO thread

10105 **HSS-G** **DIN 2181 ISO 2/6H** **MF**

HRC ≃ 63÷63,5
AISI M2



Confezione
Packaging



R ≤ 800 N/mm²

Applicazioni
Applications

- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

Ø M84 x 1,5÷110 x 4
A richiesta
On demand

Ø			/	L	pcs	cod.	€ cad/each
M 2	x	0,25	8	36	1	1010502x025	42,517
2,2	x	0,25	9	36	1	10105022x025	42,517
2,5	x	0,35	9	40	1	10105025x035	40,901
2,6	x	0,35	9	40	1	10105026x035	40,901
3	x	0,35	9	40	1	1010503X035	24,041
3,5	x	0,35	10	45	1	10105035X035	24,041
4	x	0,35	10	45	1	1010504X035	27,497
4	x	0,5	10	45	1	1010504X05	19,752
4,5	x	0,5	12	50	1	10105045x05	40,901
5	x	0,5	12	50	1	1010505X05	21,018
5	x	0,75	12	50	1	1010505X075	45,022
5,5	x	0,5	12	50	1	10105055x05	40,901
6	x	0,5	14	50	1	1010506X05	40,901
6	x	0,75	14	50	1	1010506X075	21,995
7	x	0,5	14	50	1	1010507x05	40,901
7	x	0,75	14	50	1	1010507X075	26,115
8	x	0,5	19	50	1	1010508X05	52,519
8	x	0,75	19	50	1	1010508X075	26,729
8	x	1	22	56	1	1010508X1	22,986
9	x	0,5	19	56	1	1010509x05	45,126
9	x	0,75	19	56	1	1010509X075	37,967
9	x	1	20	63	1	1010509X1	35,113
10	x	0,5	20	63	1	1010510x05	45,829
10	x	0,75	20	63	1	1010510X075	35,464
10	x	1	20	63	1	1010510X1	30,457
10	x	1,25	24	70	1	1010510X125	25,099
11	x	0,75	20	63	1	1010511x075	58,946
11	x	1	20	63	1	1010511X1	39,282
11	x	1,25	22	63	1	1010511X125	40,714
12	x	0,5	22	70	1	1010512x05	58,946
12	x	0,75	22	70	1	1010512X075	36,180
12	x	1	22	70	1	1010512X1	36,102
12	x	1,25	22	70	1	1010512X125	31,797
12	x	1,5	22	70	1	1010512X15	28,906
13	x	0,5	22	70	1	1010513x05	90,955
13	x	0,75	22	70	1	1010513x075	90,955
13	x	1	22	70	1	1010513X1	62,506
13	x	1,5	22	70	1	1010513X15	62,506
14	x	0,5	22	70	1	1010514x05	90,955
14	x	0,75	22	70	1	1010514X075	44,018
14	x	1	22	70	1	1010514X1	40,470
14	x	1,25	22	70	1	1010514X125	40,470
14	x	1,5	22	70	1	1010514X15	34,409
15	x	0,75	22	70	1	1010515x075	100,968
15	x	1	22	70	1	1010515X1	67,694
15	x	1,5	22	70	1	1010515X15	67,694
16	x	0,5	22	70	1	1010516X05	100,968
16	x	0,75	22	70	1	1010516X075	100,968
16	x	1	22	70	1	1010516X1	45,126
16	x	1,25	22	70	1	1010516X125	42,439
16	x	1,5	22	70	1	1010516X15	36,663
17	x	1	22	70	1	1010517x1	109,287
17	x	1,5	22	70	1	1010517x15	109,287
18	x	0,5	22	80	1	1010518x05	109,287
18	x	0,75	22	80	1	1010518x075	109,287
18	x	1	22	80	1	1010518X1	66,273
18	x	1,25	22	80	1	1010518X125	66,273
18	x	1,5	22	80	1	1010518X15	54,291
18	x	2	22	80	1	1010518X2	68,893
19	x	1	22	80	1	1010519x1	137,409
19	x	1,5	22	80	1	1010519x15	137,409
20	x	0,5	22	80	1	1010520x05	137,409
20	x	0,75	22	80	1	1010520x075	137,409
20	x	1	22	80	1	1010520X1	91,659
20	x	1,25	22	80	1	1010520X125	83,940
20	x	1,5	22	80	1	1010520X15	59,936
20	x	2	22	80	1	1010520X2	73,797

Per filettature in fori ciechi e passanti in acciaio da costruzione, acciai da bonifica, materiali metallici in genere sino a R≤800 N/mm²

For making threads in blind and through holes in structural steel, malleable cast iron, heat-treatable steel R≤800 N/mm².

CONTINUA SULLA PAGINA SUCCESSIVA
CONTINUED ON NEXT PAGE

Ø			l	L	pcs	cod.	€ cad/each
21	x	1	22	80	1	1010521X1	**140,956**
21	x	1,5	22	80	1	1010521X15	**140,956**
22	x	0,5	22	80	1	1010522x05	**162,978**
22	x	0,75	22	80	1	1010522x075	**140,956**
22	x	1	22	80	1	1010522x1	**87,251**
22	x	1,25	22	80	1	1010522x125	**87,251**
22	x	1,5	22	80	1	1010522X15	**87,251**
22	x	2	22	80	1	1010522X2	**87,251**
23	x	1	22	80	1	1010523x1	**190,384**
23	x	1,5	22	80	1	1010523X15	**127,200**
24	x	0,5	22	90	1	1010524x05	**190,384**
24	x	0,75	22	90	1	1010524x075	**190,384**
24	x	1	22	90	1	1010524X1	**105,737**
24	x	1,25	22	90	1	1010524X125	**94,717**
24	x	1,5	22	90	1	1010524X15	**90,008**
24	x	2	22	90	1	1010524X2	**94,252**
25	x	1	22	90	1	1010525X1	**128,687**
25	x	1,5	22	90	1	1010525X15	**128,687**
26	x	1	22	90	1	1010526X1	**120,865**
26	x	1,5	22	90	1	1010526X15	**120,865**
26	x	2	22	90	1	1010526X2	**120,865**
27	x	1	22	90	1	1010527X1	**167,815**
27	x	1,5	22	90	1	1010527X15	**116,067**
27	x	2	22	90	1	1010527X2	**116,067**
28	x	1	22	90	1	1010528X1	**172,052**
28	x	1,5	22	90	1	1010528X15	**136,940**
28	x	2	22	90	1	1010528X2	**136,940**
29	x	1,5	22	90	1	1010529X15	**279,227**
30	x	1	22	90	1	1010530X1	**176,016**
30	x	1,5	22	90	1	1010530X15	**176,016**
30	x	2	22	90	1	1010530X2	**176,016**
30	x	2,5	56	125	1	1010530X25	**176,016**
30	x	3	56	125	1	1010530X3	**176,016**
32	x	1	22	90	1	1010532x1	**370,886**
32	x	1,5	22	90	1	1010532X15	**190,384**
32	x	2	22	90	1	1010532x2	**370,886**
32	x	3	56	125	1	1010532X3	**188,963**
33	x	1,5	25	100	1	1010533X15	**266,528**
33	x	2	25	100	1	1010533X2	**291,912**
33	x	3	56	125	1	1010533X3	**324,351**
34	x	1	25	100	1	1010534x1	**452,674**
34	x	1,5	25	100	1	1010534X15	**300,374**
34	x	2	40	125	1	1010534X2	**300,374**
35	x	1	25	100	1	1010535x1	**452,674**
35	x	1,5	25	100	1	1010535X15	**300,374**
35	x	2	40	125	1	1010535x2	**451,267**
36	x	1	25	100	1	1010536x1	**475,243**
36	x	1,5	25	100	1	1010536X15	**317,299**
36	x	2	40	125	1	1010536X2	**317,299**
36	x	3	40	125	1	1010536X3	**317,299**
37	x	1,5	25	100	1	1010537x15	**526,710**
38	x	1	25	100	1	1010538x1	**526,710**
38	x	1,5	25	100	1	1010538X15	**374,408**
38	x	2	40	125	1	1010538X2	**463,250**
38	x	3	40	125	1	1010538x3	**463,250**
39	x	1,5	25	110	1	1010539X15	**374,408**
39	x	2	40	125	1	1010539X2	**374,408**
39	x	3	40	125	1	1010539X3	**374,408**
40	x	1	25	110	1	1010540x1	**463,250**
40	x	1,5	25	110	1	1010540X15	**402,457**
40	x	2	40	125	1	1010540X2	**383,292**
40	x	3	40	125	1	1010540X3	**383,292**
42	x	1	25	110	1	1010542x1	**463,250**
42	x	1,5	25	110	1	1010542X15	**390,908**
42	x	2	40	125	1	1010542X2	**390,908**
42	x	3	40	125	1	1010542X3	**390,908**
44	x	1,5	25	110	1	1010544x15	**564,788**
44	x	2	40	125	1	1010544x2	**564,788**
45	x	1	25	110	1	1010545x1	**564,788**
45	x	1,5	25	110	1	1010545X15	**516,560**
45	x	2	40	125	1	1010545X2	**516,560**
45	x	3	40	125	1	1010545X3	**516,560**
46	x	1,5	40	140	1	1010546x15	**564,788**
48	x	1	40	140	1	1010548x1	**670,140**
48	x	1,5	25	140	1	1010548X15	**501,328**
48	x	2	40	140	1	1010548X2	**578,752**
48	x	3	40	140	1	1010548X3	**578,752**
50	x	1,5	40	140	1	1010550X15	**581,287**
50	x	2	40	140	1	1010550X2	**637,131**
50	x	3	40	140	1	1010550X3	**712,020**
52	x	1,5	40	140	1	1010552X15	**736,133**
52	x	2	40	140	1	1010552X2	**736,133**
52	x	3	40	140	1	1010552X3	**736,133**
54	x	1,5	32	140	1	1010554X15	**927,719**
54	x	2	36	140	1	1010554X2	**927,719**
54	x	3	40	140	1	1010554X3	**927,719**
54	x	4	50	180	1	1010554X4	**927,719**
55	x	1,5	32	140	1	1010555X15	**1.070,116**
55	x	2	36	140	1	1010555X2	**1.070,116**
55	x	3	40	140	1	1010555X3	**1.070,116**
55	x	4	50	180	1	1010555X4	**1.070,116**
56	x	1,5	32	140	1	1010556X15	**1.141,322**
56	x	2	36	140	1	1010556X2	**1.141,322**
56	x	3	40	140	1	1010556X3	**1.141,322**
56	x	4	50	180	1	1010556X4	**1.141,322**
58	x	1,5	32	160	1	1010558X15	**1.169,591**
58	x	2	36	160	1	1010558X2	**1.169,591**
58	x	3	40	160	1	1010558X3	**1.169,591**
58	x	4	55	200	1	1010558X4	**1.169,591**
60	x	1,5	34	160	1	1010560X15	**1.227,183**
60	x	2	36	160	1	1010560X2	**1.227,183**
60	x	3	40	160	1	1010560X3	**1.227,183**
60	x	4	55	200	1	1010560X4	**1.227,183**
62	x	1,5	34	160	1	1010562X15	**1.326,658**
62	x	2	36	160	1	1010562X2	**1.326,658**
62	x	3	45	180	1	1010562X3	**1.326,658**
62	x	4	55	220	1	1010562X4	**1.326,658**
63	x	1,5	32	160	1	1010563X15	**1.354,926**
64	x	1,5	34	160	1	1010564X15	**1.354,926**
64	x	2	36	160	1	1010564X2	**1.354,926**
64	x	3	45	180	1	1010564X3	**1.354,926**
64	x	4	60	220	1	1010564X4	**1.354,926**
65	x	1,5	34	160	1	1010565X15	**1.440,787**
65	x	2	36	160	1	1010565X2	**1.440,787**
65	x	3	45	180	1	1010565X3	**1.440,787**
65	x	4	60	220	1	1010565X4	**1.440,787**
68	x	1,5	36	160	1	1010568X15	**1.498,380**
68	x	2	40	160	1	1010568X2	**1.498,380**
68	x	3	50	180	1	1010568X3	**1.498,380**
68	x	4	60	220	1	1010568X4	**1.498,380**
70	x	1,5	36	160	1	1010570X15	**2.425,042**
70	x	2	40	160	1	1010570X2	**2.425,042**
70	x	3	50	200	1	1010570X3	**2.782,098**
70	x	4	60	240	1	1010570X4	**2.782,098**
72	x	1,5	36	160	1	1010572X15	**2.425,042**
72	x	2	40	160	1	1010572X2	**2.425,042**
72	x	3	50	200	1	1010572X3	**2.782,098**
72	x	4	60	240	1	1010572X4	**2.782,098**
74	x	1,5	36	160	1	1010574X15	**2.638,655**
74	x	2	40	160	1	1010574X2	**2.638,655**
74	x	3	50	200	1	1010574X3	**3.138,109**
74	x	4	60	240	1	1010574X4	**3.138,109**
75	x	1,5	36	160	1	1010575X15	**2.710,901**
75	x	2	40	160	1	1010575X2	**2.710,901**
75	x	3	50	200	1	1010575X3	**3.209,307**
75	x	4	60	240	1	1010575X4	**3.209,307**
76	x	1,5	36	160	1	1010576X15	**2.782,098**
76	x	2	40	160	1	1010576X2	**2.782,098**
76	x	3	50	220	1	1010576X3	**3.352,761**
76	x	4	60	260	1	1010576X4	**3.352,761**
78	x	1,5	36	160	1	1010578X15	**2.782,098**
78	x	2	40	160	1	1010578X2	**2.782,098**
78	x	3	55	220	1	1010578X3	**3.352,761**
78	x	4	65	260	1	1010578X4	**3.352,761**
80	x	1,5	36	160	1	1010580X15	**2.995,703**
80	x	2	40	160	1	1010580X2	**2.995,703**
80	x	3	55	220	1	1010580X3	**3.708,771**
80	x	4	65	260	1	1010580X4	**3.708,771**
82	x	1,5	36	160	1	1010582X15	**2.995,703**
82	x	2	40	160	1	1010582X2	**2.995,703**
82	x	3	55	220	1	1010582X3	**3.708,771**
82	x	4	65	260	1	1010582X4	**3.708,771**

MASCHI A MANO IN HSS SERIE DI 2 PEZZI
PER TUBI DI CONDUZIONE ELETTRICA,FILETTATURA METRICA ISO A PASSO FINE
2 pcs hand taps for cable connection

10105 HSS-G DIN 2181 ISO 2/6H

MF

HRC ≃ 63÷63,5
AISI M2



Confezione
Packaging

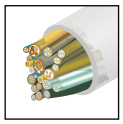


	Ø	l	L	pcs	cod.	€ cad/each
M	**12** x 1,5	22	70	1	1010512x15	**28,906**
	16 x 1,5	22	70	1	1010516x15	**36,663**
	20 x 1,5	22	80	1	1010520x15	**59,936**
	25 x 1,5	22	90	1	1010525x15	**128,687**
	32 x 1,5	32	90	1	1010532x15	**190,384**
	40 x 1,5	25	110	1	1010540x15	**402,457**
	50 x 1,5	40	140	1	1010550x15	**581,287**
	63 x 1,5	32	160	1	1010563x15	**1.354,926**

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals



Per tubi di conduzione elettrica
For electrical conduction tubes

SINISTRI
LEFT HAND

MASCHI A MANO IN HSS SERIE DI 2 PEZZI,
FILETTATURA METRICA SINISTRA A PASSO FINE
Hand taps, metric fine ISO thread, left hand

10107 HSS-G DIN 2181 ISO 2/6H

MF

Sinistra
Left hand

HRC ≃ 63÷63,5
AISI M2

R ≤ 900 N/mm²



	Ø	l	L	pcs	cod.	€ cad/each
M	**6** x 0,75	14	50	1	1010706X075	**34,650**
	8 x 0,75	19	50	1	1010708X075	**39,943**
	8 x 1	22	56	1	1010708X1	**34,650**
	10 x 1	20	63	1	1010710X1	**37,059**
	10 x 1,25	24	70	1	1010710X125	**45,235**
	12 x 1	22	70	1	1010712X1	**45,808**
	12 x 1,25	22	70	1	1010712X125	**55,834**
	12 x 1,5	22	70	1	1010712X15	**44,279**
	14 x 1,25	22	70	1	1010714X125	**60,653**
	14 x 1,5	22	70	1	1010714X15	**52,966**
	16 x 1	22	70	1	1010716X1	**68,254**
	16 x 1,5	22	70	1	1010716X15	**65,152**
	18 x 1,5	22	80	1	1010718X15	**76,014**
	20 x 1,5	22	80	1	1010720X15	**84,006**
	22 x 1,5	22	80	1	1010722X15	**108,022**
	24 x 1,5	22	90	1	1010724X15	**146,667**
	24 x 2	22	90	1	1010724X2	**228,664**
	30 x 1,5	22	90	1	1010730X15	**489,766**
	30 x 2	22	90	1	1010730X2	**489,766**
	38 x 1,5	25	100	1	1010738X15	**781,033**

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

Per filettature in fori ciechi e passanti in acciaio da costruzione, acciai da bonifica, materiali metallici in genere sino a R≤800 N/mm².

For making threads in blind and through holes in structural steel, malleable cast iron, heat-treatable steel R≤800 N/mm².

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA GAS CILINDRICA ISO 228 PER TUBI
Hand taps, 2 pcs set, Wh pipe thread ISO 228

10115 **HSS-G** **DIN 5157** **BSP (GAS)**

HRC = 63÷63,5
AISI M2



R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
G	**1/8** x 28	20	63	1	101151/8	**37,289**
	1/4 x 19	22	70	1	101151/4	**49,140**
	3/8 x 19	22	70	1	101153/8	**61,710**
	1/2 x 14	22	80	1	101151/2	**88,660**
	5/8 x 14	22	80	1	101155/8	**106,914**
	3/4 x 14	22	90	1	101153/4	**131,191**
	7/8 x 14	22	90	1	101157/8	**170,631**
	1” x 11	25	100	1	101151	**207,308**
	1.1/8 x 11	40	125	1	101151.1/8	**339,867**
	1.1/4 x 11	40	125	1	101151.1/4	**339,867**
	1.3/8 x 11	40	140	1	101151.3/8	**455,505**
	1.1/2 x 11	40	140	1	101151.1/2	**455,505**
	1.5/8 x 11	40	140	1	101151.5/8	**791,133**
	1.3/4 x 11	40	140	1	101151.3/4	**664,206**
	2” x 11	40	160	1	101152	**664,206**
	2.1/4 x 11	40	160	1	101152.1/4	**1.541,365**
	2.1/2 x 11	40	160	1	101152.1/2	**1.624,562**
	2.3/4 x 11	40	160	1	101152.3/4	**2.166,091**
	3” x 11	40	160	1	101153	**2.473,520**
	3.1/2 x 11	45	180	1	101153.1/2	**3.500,150**
	4” x 11	45	180	1	101154	**4.000,778**

SINISTRI
LEFT HAND

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA GAS SINISTRA CILINDRICA ISO 228 PER TUBI
Hand taps, 2 pcs set, Wh pipe thread ISO 228

10117 **HSS-G** **DIN 5157** **BSP (GAS)** Sinistra Left hand

HRC = 63÷63,5
AISI M2



R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
G	**1/8** x 28	20	63	1	101171/8	**62,206**
	1/4 x 19	22	70	1	101171/4	**74,748**
	3/8 x 19	22	70	1	101173/8	**93,980**
	1/2 x 14	22	80	1	101171/2	**153,708**
	5/8 x 14	22	80	1	101175/8	**227,257**
	3/4 x 14	22	90	1	101173/4	**241,142**
	1” x 11	25	100	1	101171	**472,427**
	1.1/8 x 11	40	125	1	101171.1/8	**627,621**
	1.1/4 x 11	40	125	1	101171.1/4	**627,621**
	1.3/8 x 11	40	140	1	101171.3/8	**841,121**
	1.1/2 x 11	40	140	1	101171.1/2	**841,121**
	1.3/4 x 11	40	140	1	101171.3/4	**1.734,813**
	2” x 11	40	160	1	101172	**1.734,813**

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI, FILETTATURA GAS CONICA BSPT
BSPT taped thread taps

10139 HSS-G

BSPT - Conici



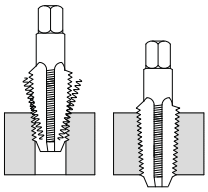
HRC = 63÷63,5
AISI M2



CONICITÀ 1:16
TAPER 1:16



	Ø	l	L	pcs	cod.	€ cad/each
Rc	**1/8** x 28	15	59	1	101391/8	**39,555**
	1/4 x 19	19	67	1	101391/4	**45,825**
	3/8 x 19	21	75	1	101393/8	**56,665**
	1/2 x 14	26	87	1	101391/2	**75,506**
	3/4 x 14	28	96	1	101393/4	**118,073**
	1" x 11	33	109	1	101391	**169,019**
	1.1/4 x 11	36	119	1	101391.1/4	**291,281**
	1.1/2 x 11	37	125	1	101391.1/2	**378,788**
	2" x 11	41	140	1	101392	**673,659**



R ≤ 900 N/mm²

Applicazioni
Applications

Acciaio *Steel* · Metalli *Metals* · Alluminio *Aluminum* · Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA WHITWORTH A PASSO FINE BS 84
Hand taps, 2 pcs set, british standard fine thread

10112 HSS-G ≃ DIN 2181

BSF



HRC = 63÷63,5
AISI M2



	Ø	l	L	pcs	cod.	€ cad/each
BSF	**3/16** x 32	14	50	1	101123/16	**23,103**
	1/4 x 26	18	50	1	101121/4	**25,385**
	5/16 x 22	22	56	1	101125/16	**27,707**
	3/8 x 20	22	63	1	101123/8	**32,295**
	7/16 x 18	22	63	1	101127/16	**36,923**
	1/2 x 16	24	75	1	101121/2	**43,887**
	9/16 x 16	28	80	1	101129/16	**60,002**
	5/8 x 14	28	80	1	101125/8	**60,002**
	3/4 x 12	32	95	1	101123/4	**80,759**
	7/8 x 11	36	100	1	101127/8	**104,358**
	1" x 10	40	110	1	101121	**133,968**

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel* · Metalli *Metals* · Alluminio *Aluminum* · Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA WHITWORTH A PASSO GROSSO BS 84
Hand taps, 3 pcs set, british standard thread

10110 HSS-G ≃ DIN 352 BSW

HRC = 63÷63,5
AISI M2



R ≤ 800 N/mm²

Applicazioni
Applications


Acciaio *Steel*


Metalli *Metals*


Alluminio *Aluminum*


Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
BSW	**1/16** x 60	10	36	1	101101/16	**63,248**
	3/32 x 48	10	36	1	101103/32	**63,248**
	1/8 x 40	12	40	1	101101/8	**29,676**
	5/32 x 32	14	45	1	101105/32	**29,676**
	3/16 x 24	18	50	1	101103/16	**32,856**
	7/32 x 24	18	50	1	101107/32	**35,360**
	1/4 x 20	19	50	1	101101/4	**35,360**
	5/16 x 18	22	63	1	101105/16	**37,369**
	3/8 x 16	24	70	1	101103/8	**43,314**
	7/16 x 14	24	70	1	101107/16	**53,379**
	1/2 x 12	29	75	1	101101/2	**55,582**
	9/16 x 12	30	80	1	101109/16	**70,797**
	5/8 x 11	32	80	1	101105/8	**84,619**
	11/16 x 11	32	80	1	1011011/16	**142,430**
	3/4 x 10	40	95	1	101103/4	**142,430**
	7/8 x 9	40	100	1	101107/8	**172,052**
	1” x 8	50	110	1	101101	**193,200**
	1.1/8 x 7	56	132	1	101101.1/8	**355,370**
	1.1/4 x 7	56	132	1	101101.1/4	**355,370**
	1.3/8 x 6	63	150	1	101101.3/8	**524,607**
	1.1/2 x 6	63	150	1	101101.1/2	**593,694**
	1.5/8 x 5	70	160	1	101101.5/8	**1.009,718**
	1.3/4 x 5	70	160	1	101101.3/4	**1.160,611**
	1.7/8 x 4.1/2	80	190	1	101101.7/8	**1.604,822**
	2” x 4.1/2	80	190	1	101102	**1.604,822**

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA SINISTRA WHITWORTH A PASSO GROSSO BS 84
Hand taps, 3 pcs set, british standard thread, left hand

SINISTRI *LEFT HAND*

10111 HSS-G ≃ DIN 352 BSW

Sinistra
Left hand



HRC = 63÷63,5
AISI M2



R ≤ 800 N/mm²

Applicazioni
Applications


Acciaio *Steel*


Metalli *Metals*


Alluminio *Aluminum*


Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
BSW	**1/8** x 40	12	40	1	101111/8	**62,802**
	5/32 x 32	14	45	1	101115/32	**62,802**
	3/16 x 24	18	50	1	101113/16	**62,802**
	1/4 x 20	22	56	1	101111/4	**62,802**
	5/16 x 18	25	63	1	101115/16	**65,619**
	3/8 x 16	28	70	1	101113/8	**74,232**
	7/16 x 14	30	75	1	101117/16	**91,294**
	1/2 x 12	32	80	1	101111/2	**107,498**
	9/16 x 12	32	80	1	101119/16	**142,409**
	5/8 x 11	36	90	1	101115/8	**159,154**
	3/4 x 10	40	105	1	101113/4	**213,601**
	7/8 x 9	45	110	1	101117/8	**262,475**
	1” x 8	50	110	1	101111	**316,922**

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI, FILETTATURA AMERICANA NPT
NPT taper thread taps

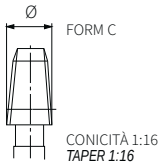
10134 **HSS-G** **ANSI B 2.1**

NPT - Conici



HRC = 63÷63,5
AISI M2





R ≤ 900 N/mm²

Applicazioni
Applications


Acciaio
Steel

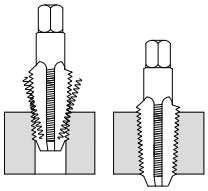

Metalli
Metals



Alluminio
Aluminum


Olio
Oil

	Ø	l	L	pcs	cod.	€ cad/each
NPT	**1/16** x 27	19	54	1	101341/16	**34,864**
	1/8 x 27	19	54	1	101341/8	**39,555**
	1/4 x 18	27	62	1	101341/4	**45,825**
	3/8 x 18	27	65	1	101343/8	**56,665**
	1/2 x 14	35	79	1	101341/2	**85,801**
	3/4 x 14	35	83	1	101343/4	**141,445**
	1" x 11,5	44	95	1	101341	**221,762**
	1.1/4 x 11,5	44	102	1	101341.1/4	**353,607**
	1.1/2 x 11,5	44	108	1	101341.1/2	**460,290**
	2" x 11,5	44	114	1	101342	**825,890**



MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA AMERICANA UNC A PASSO GROSSO
Hand taps, 3 pcs set, Unified Coarse Thread (UNC)

10120 HSS-G DIN 352

UNC



HRC = 63÷63,5
AISI M2

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
N°	**1** x 64	10	32	1	10120N01	**40,954**
	2 x 56	11	36	1	10120N02	**40,954**
	3 x 48	11	36	1	10120N03	**34,629**
	4 x 40	12	40	1	10120N04	**31,507**
	5 x 40	12	40	1	10120N05	**31,507**
	6 x 32	14	45	1	10120N06	**30,380**
	8 x 32	14	45	1	10120N08	**30,380**
	10 x 24	16	50	1	10120N10	**30,380**
	12 x 24	18	50	1	10120N12	**30,380**
UNC	**1/4** x 20	19	50	1	101201/4	**32,598**
	5/16 x 18	22	63	1	101205/16	**32,598**
	3/8 x 16	24	70	1	101203/8	**39,898**
	7/16 x 14	24	70	1	101207/16	**44,591**
	1/2 x 13	29	75	1	101201/2	**61,019**
	9/16 x 12	30	80	1	101209/16	**71,076**
	5/8 x 11	32	80	1	101205/8	**76,450**
	3/4 x 10	40	95	1	101203/4	**119,937**
	7/8 x 12	40	100	1	101207/8	**151,925**
	1” x 8	50	110	1	101201	**199,485**
	1.1/8 x 7	56	132	1	101201.1/8	**314,763**
	1.1/4 x 7	56	132	1	101201.1/4	**432,800**
	1.3/8 x 6	63	150	1	101201.3/8	**713,286**
	1.1/2 x 6	63	150	1	101201.1/2	**713,286**
	1.5/8 x 5	70	160	1	101201.5/8	**1.081,348**
	1.3/4 x 5	70	160	1	101201.3/4	**1.081,348**
	1.7/8 x 4,5	80	190	1	101201.7/8	**1.510,335**
	2” x 4,5	80	190	1	101202	**1.510,335**

SINISTRI *LEFT HAND*

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA AMERICANA UNC SINISTRA
Unified Coarse Thread

10122 HSS-G DIN 352

UNC Sinistra *Left hand*



HRC = 63÷63,5
AISI M2

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
N°	**6** x 32	14	45	1	10122NR06	**90,509**
	8 x 32	14	45	1	10122NR08	**90,509**
	10 x 24	16	50	1	10122NR10	**90,509**
	12 x 24	18	50	1	10122NR12	**90,509**
UNC	**1/4** x 20	19	50	1	101221/4	**57,330**
	5/16 x 18	22	63	1	101225/16	**60,366**
	3/8 x 16	24	70	1	101223/8	**70,362**
	7/16 x 14	24	70	1	101227/16	**85,468**
	1/2 x 13	29	75	1	101221/2	**102,569**
	9/16 x 12	30	80	1	101229/16	**133,754**
	5/8 x 11	32	80	1	101225/8	**150,788**
	3/4 x 10	40	95	1	101223/4	**201,080**
	7/8 x 9	40	100	1	101227/8	**251,361**
	1” x 8	50	110	1	101221	**301,655**

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA AMERICANA UNF A PASSO FINE

Hand taps, 2 pcs set, unified fine thread (UNF)

10125 HSS-G ≃ DIN 2181 UNF



HRC ≃ 63÷63,5
AISI M2

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
N°	**0** x 80	9	32	1	10125N00	**45,313**
	1 x 72	9	32	1	10125N01	**42,044**
	2 x 64	10	32	1	10125N02	**42,044**
	3 x 56	10	32	1	10125N03	**36,765**
	4 x 48	11	36	1	10125N04	**35,461**
	5 x 44	11	36	1	10125N05	**34,159**
	6 x 40	12	40	1	10125N06	**27,342**
	8 x 36	12	40	1	10125N08	**27,342**
	10 x 32	14	45	1	10125N10	**27,342**
UNF	**12** x 28	14	50	1	10125N12	**27,342**
	1/4 x 28	18	50	1	101251/4	**29,418**
	5/16 x 24	22	56	1	101255/16	**29,418**
	3/8 x 24	22	63	1	101253/8	**31,882**
	7/16 x 20	22	63	1	101257/16	**37,808**
	1/2 x 20	24	75	1	101251/2	**44,721**
	9/16 x 18	28	80	1	101259/16	**62,182**
	5/8 x 18	28	80	1	101255/8	**68,716**
	3/4 x 16	32	95	1	101253/4	**85,860**
	7/8 x 14	36	100	1	101257/8	**109,154**
	1” x 12	40	110	1	10125112	**138,337**
*	**1”** x 14	40	110	1	10125114	**229,724**
	1.1/8 x 12	50	110	1	101251.1/8	**312,216**
	1.1/4 x 12	56	132	1	101251.1/4	**389,641**
	1.3/8 x 12	56	132	1	101251.3/8	**640,944**
	1.1/2 x 12	63	150	1	101251.1/2	**640,944**

* Filettatura UNS
UNS thread

SINISTRA *LEFT HAND*

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA AMERICANA UNF SINISTRA

Hand taps, 2 pcs set, unified fine thread (UNF), left hand

10127 HSS-G ≃ DIN 2181 UNF Sinistra / Left hand



HRC ≃ 63÷63,5
AISI M2

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	l	L	pcs	cod.	€ cad/each
N°	**10** x 32	14	45	1	10127NR10	**67,929**
UNF	**1/4** x 28	18	50	1	101271/4	**42,999**
	5/16 x 24	22	56	1	101275/16	**45,256**
	3/8 x 24	22	63	1	101273/8	**52,818**
	7/16 x 20	22	63	1	101277/16	**64,148**
	1/2 x 20	24	75	1	101271/2	**76,926**
	9/16 x 18	28	80	1	101279/16	**100,316**
	5/8 x 18	28	80	1	101275/8	**113,173**
	3/4 x 16	32	95	1	101273/4	**150,891**
	7/8 x 14	36	100	1	101277/8	**188,584**
	1” x 12	40	110	1	101271	**226,278**

MASCHI A MANO IN HSS SERIE DI 2 PEZZI PER TUBI DI CONDUZIONE ELETTRICA
2 pcs hand taps for cable connection

10136 **HSS-G** **DIN 40432** **Pg**

HRC ≃ 63÷63,5
AISI M2

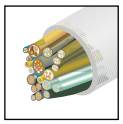


	Ø	l	L	pcs	cod.	€ cad/each
Pg	**7** x 20	22	70	1	1013607	**68,621**
	9 x 18	22	70	1	1013609	**89,508**
	11 x 18	22	80	1	1013611	**149,484**
	13,5 x 18	22	80	1	10136135	**169,223**
	16 x 18	22	80	1	1013616	**208,612**
	21 x 16	22	90	1	1013621	**307,429**
	29 x 16	25	100	1	1013629	**462,557**
	36 x 16	40	140	1	1013636	**717,102**
	42 x 16	40	140	1	1013642	**1.095,210**
	48 x 16	40	160	1	1013648	**1.262,138**

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals



Per tubi di conduzione elettrica
For electrical conduction tubes

MASCHI A MANO AL CV SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO
Standard 3 pcs hand taps, metric coarse pitch

10001 C.V. UNI 4535 ≃ DIN 352

M

HRC = 62÷63



Confezione
Packaging



R ≤ 600 N/mm²

Applicazioni
Applications

- Leghe leggere / *Light alloys*
- Metalli / *Metals*
- Alluminio / *Aluminum*
- Olio / *Oil*

Art. 10002 Self
Disponibile su richiesta
On demand

	Ø			l	L	pcs	cod.	€ cad/each
M	**2**	x	0,4	11	36	1	1000102X04	**7,625**
	2,5	x	0,45	12	40	1	10001025X045	**9,065**
	3	x	0,5	12	40	1	1000103X05	**5,117**
	3	x	0,6	12	43	1	1000103X06	**7,079**
	3,5	x	0,6	14	45	1	10001035X06	**7,079**
	4	x	0,7	14	45	1	1000104X07	**5,117**
	4	x	0,75	14	48	1	1000104X075	**7,581**
	4,5	x	0,75	16	48	1	10001045X075	**7,581**
	5	x	0,8	16	48	1	1000105X08	**5,394**
	5	x	0,9	16	50	1	1000105X09	**6,064**
	6	x	1	18	50	1	1000106X1	**5,394**
	7	x	1	18	50	1	1000107X1	**7,102**
	8	x	1,25	22	56	1	1000108X125	**6,822**
	9	x	1,25	22	63	1	1000109X125	**9,564**
	10	x	1,5	25	70	1	1000110X15	**9,097**
	11	x	1,5	25	70	1	1000111X15	**12,072**
	12	x	1,75	30	75	1	1000112X175	**11,448**
	14	x	2	32	80	1	1000114X2	**14,828**
	16	x	2	32	80	1	1000116X2	**18,137**
	18	x	2,5	40	95	1	1000118X25	**23,276**
	20	x	2,5	40	95	1	1000120X25	**28,694**
	22	x	2,5	40	100	1	1000122X25	**34,826**
	24	x	3	50	110	1	1000124X3	**41,359**
	27	x	3	50	110	1	1000127X3	**93,204**
	30	x	3,5	56	132	1	1000130X35	**124,195**
	33	x	3,5	60	132	1	1000133X35	**147,105**
	36	x	4	60	132	1	1000136X4	**162,778**

C.V. MASCHIO FINITORE
bottoming tap

M

Maschio a mano finitore
Bottoming hand tap

HSS-G
DIN 352 III



	Ø			l	L	pcs	cod.	€ cad/each
M	**2**	x	0,4	11	36	1	1000102X043	**3,420**
	3	x	0,5	12	40	1	1000103X053	**2,302**
	4	x	0,7	14	45	1	1000104X073	**2,302**
	5	x	0,8	16	48	1	1000105X083	**2,411**
	6	x	1	18	50	1	1000106X13	**2,411**
	8	x	1,25	22	56	1	1000108X1253	**3,052**
	10	x	1,5	25	70	1	1000110X153	**4,088**
	12	x	1,75	30	75	1	1000112X1753	**5,123**
	14	x	2	32	80	1	1000114X23	**6,650**
	16	x	2	32	80	1	1000116X23	**8,134**

Per filettare fori passanti e ciechi in ferro, acciaio dolce ed a bassa resistenza sino R≤600 N/mm²

For making thread in iron, steel up to R≤600 N/mm²

MASCHI A MACCHINA AL CV E A MANO PER FORI PASSANTI, SPECIALI PER DADI, FILETTATURA METRICA

Standard 3 pcs hand taps, metric coarse pitch

10030 | **C.V.** | ≃ **DIN 357** | **M**



R ≤ 600 N/mm²

Applicazioni
Applications

- Leghe leggere *Light alloys*
- Alluminio *Aluminum*
- Metalli *Metals*
- Olio *Oil*

	Ø			l	L	pcs	cod.	€ cad/each
M	**3**	x	0,5	18	75	10	1003003X05	**5,019**
	4	x	0,7	23	90	10	1003004X07	**5,085**
	5	x	0,8	32	100	10	1003005X08	**5,881**
	6	x	1	40	110	10	1003006X1	**6,259**
	8	x	1,25	45	132	5	1003008X125	**7,745**
	10	x	1,5	55	150	5	1003010X15	**11,369**
	12	x	1,75	55	180	5	1003012X175	**16,610**

MASCHI A MANO AL CV IN SERIE DI 2 PEZZI, FILETTATURA METRICA PASSO GROSSO E FINE

Two pieces hand taps, coarse and fine pitch

10003 | **C.V.** | **UNI 4535 ≃ DIN 2181** | **M - MF**

HRC ≃ 62÷63



R ≤ 600 N/mm²

Applicazioni
Applications

- Leghe leggere *Light alloys*
- Alluminio *Aluminum*
- Metalli *Metals*
- Olio *Oil*

	Ø			l	L	pcs	cod.	€ cad/each
M	**2**	x	0,4	11	36	1	1000302X04	**5,930**
	3	x	0,5	12	40	1	1000303X05	**4,091**
	4	x	0,7	14	45	1	1000304X07	**4,091**
	5	x	0,8	16	48	1	1000305X08	**4,270**
	6	x	0,75	18	50	1	1000306X075	**4,270**
	6	x	1	18	50	1	1000306X1	**4,270**
	7	x	0,75	18	50	1	1000307X075	**5,474**
	7	x	1	18	50	1	1000307X1	**5,474**
	8	x	0,75	22	56	1	1000308X075	**6,082**
	8	x	1	22	56	1	1000308X1	**5,474**
	8	x	1,25	22	56	1	1000308X125	**5,474**
	9	x	0,75	22	63	1	1000309X075	**7,223**
	9	x	1	22	63	1	1000309X1	**7,223**
	9	x	1,25	22	63	1	1000309X125	**7,223**
	10	x	0,75	25	70	1	1000310X075	**7,223**
	10	x	1	25	70	1	1000310X1	**7,223**
	10	x	1,25	25	70	1	1000310X125	**7,223**
	10	x	1,5	25	70	1	1000310X15	**7,223**
	11	x	0,75	25	70	1	1000311X075	**9,676**
	11	x	1	25	70	1	1000311X1	**9,676**
	11	x	1,25	25	70	1	1000311X125	**9,676**
	11	x	1,5	25	70	1	1000311X15	**9,676**
	12	x	0,75	30	75	1	1000312X075	**9,364**
	12	x	1	30	75	1	1000312X1	**9,364**
	12	x	1,25	30	75	1	1000312X125	**9,364**
	12	x	1,5	30	75	1	1000312X15	**9,364**
	12	x	1,75	30	75	1	1000312X175	**9,364**
	14	x	1	32	80	1	1000314X1	**11,638**
	14	x	1,25	32	80	1	1000314X125	**11,638**
	14	x	1,5	32	80	1	1000314X15	**11,638**
	14	x	2	32	80	1	1000314X2	**11,638**
	16	x	1	32	80	1	1000316X1	**13,936**
	16	x	1,5	32	80	1	1000316X15	**13,936**
	16	x	2	32	80	1	1000316X2	**13,936**
	18	x	1,5	40	95	1	1000318X15	**16,845**
	18	x	2	40	95	1	1000318X2	**22,139**
	18	x	2,5	40	95	1	1000318X25	**22,139**
	20	x	1,5	40	95	1	1000320X15	**25,463**
	20	x	2	40	95	1	1000320X2	**30,445**
	20	x	2,5	40	95	1	1000320X25	**30,445**
	22	x	1,5	40	100	1	1000322X15	**30,445**
	22	x	2	40	100	1	1000322X2	**36,442**
	22	x	2,5	40	100	1	1000322X25	**36,442**
	24	x	1,5	50	110	1	1000324X15	**36,442**
	24	x	2	50	110	1	1000324X2	**36,442**
	24	x	3	50	110	1	1000324X3	**36,442**
	27	x	1,5	50	110	1	1000327X15	**70,409**
	27	x	2	50	110	1	1000327X2	**70,409**
	27	x	3	50	110	1	1000327X3	**70,409**
	30	x	1,5	56	132	1	1000330X15	**100,832**
	30	x	2	56	132	1	1000330X2	**100,832**

MASCHIO FINITORE
bottoming tap

Maschio a mano finitore
Bottoming hand tap

HSS-G
DIN 352 III



	Ø			l	L	pcs	cod.	€ cad/each
M	6	x	0,75	18	50	1	1000306X0753	2,849
	7	x	0,75	18	50	1	1000307X0753	3,571
	8	x	0,75	22	56	1	1000308X0753	3,571
	8	x	1	22	56	1	1000308X13	3,571
	9	x	0,75	22	63	1	1000309X0753	4,701
	9	x	1	22	63	1	1000309X13	4,701
	10	x	0,75	25	70	1	1000310X0753	4,701
	10	x	1	25	70	1	1000310X13	4,701
	10	x	1,25	25	70	1	1000310X1253	4,701
	11	x	0,75	25	70	1	1000311X0753	6,172
	11	x	1	25	70	1	1000311X13	6,172
	11	x	1,25	25	70	1	1000311X1253	6,172
	12	x	0,75	30	75	1	1000312X0753	6,158
	12	x	1	30	75	1	1000312X13	6,158
	12	x	1,25	30	75	1	1000312X1253	6,158
	12	x	1,5	30	75	1	1000312X153	6,158
	14	x	1	32	80	1	1000314X13	7,712
	14	x	1,25	32	80	1	1000314X1253	7,712
	14	x	1,5	32	80	1	1000314X153	7,712
	16	x	1	32	80	1	1000316X13	9,225
	16	x	1,5	32	80	1	1000316X153	9,225
	18	x	1,5	40	95	1	1000318X153	11,322

MASCHI A MANO AL CV SERIE DI 2 PEZZI, FILETTATURA GAS CILINDRICA ISO 228 PER TUBI
Hand taps, 2 pcs set, Wh pipe thread ISO 228

10015 | **C.V.** | **UNI 4535 ≃ DIN 5157** | **BSP (GAS)**

R ≤ 600 N/mm²

Applicazioni
Applications

- Leghe leggere *Light alloys*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*



	Ø			l	L	pcs	cod.	€ cad/each
G	1/8	x	28	18	65	1	100151/8	8,064
	1/4	x	19	24	70	1	100151/4	10,653
	3/8	x	19	25	75	1	100153/8	13,303
	1/2	x	14	31	80	1	100151/2	20,264
	3/4	x	14	33	90	1	100153/4	34,917
	1”	x	11	39	100	1	100151	58,400
	1.1/4	x	11	32	125	1	100151.1/4	114,575
	1.1/2	x	11	32	140	1	100151.1/2	194,254
	2”	x	11	32	140	1	100152	411,288

MASCHI CONICI AL CV PER TUBI, FILETTATURA GAS CONICA BSPT (CON. 1:16)
BSPT taper thread (1:16 taper)

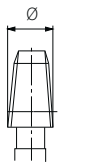
10017 | **C.V.** | **UNI 6125** | **BSPT - Conici**

R ≤ 600 N/mm²

Applicazioni
Applications

- Leghe leggere *Light alloys*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*





CONICITÀ 1:16
TAPER 1:16

	Ø			l	L	pcs	cod.	€ cad/each
G	1/8	x	28	15	59	1	100171/8	10,824
	1/4	x	19	19	67	1	100171/4	16,264
	3/8	x	19	21	75	1	100173/8	19,240
	1/2	x	14	26	87	1	100171/2	23,399
	3/4	x	14	28	96	1	100173/4	68,000
	1”	x	11	33	109	1	100171	98,455
	1.1/4	x	11	36	119	1	100171.1/4	151,921
	1.1/2	x	11	37	125	1	100171.1/2	221,849
	2”	x	11	41	140	1	100172	332,781

MASCHI A MANO AL CV SERIE DI 2 PEZZI, FILETTATURA WHITWORTH A PASSO FINE
2 pcs hand taps, british standard fine

10012 | **C.V.** | **UNI 2709 ≃ DIN 2181** | **BSF**

R ≤ 600 N/mm²

Applicazioni
Applications

- Leghe leggere *Light alloys*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*



	Ø			l	L	pcs	cod.	€ cad/each
BSF	3/16	x	32	16	48	1	100123/16	5,413
	1/4	x	26	18	50	1	100121/4	5,834
	5/16	x	22	22	56	1	100125/16	6,230
	3/8	x	20	25	70	1	100123/8	7,072
	7/16	x	18	25	70	1	100127/16	8,312
	1/2	x	16	30	75	1	100121/2	10,305
	9/16	x	16	32	80	1	100129/16	11,643
	5/8	x	14	32	80	1	100125/8	13,563
	3/4	x	12	40	95	1	100123/4	18,456
	7/8	x	11	40	100	1	100127/8	22,740
	1”	x	10	50	110	1	100121	36,132

MASCHI A MANO AL CV SERIE DI 3 PEZZI, FILETTATURA WHITWORTH PASSO GROSSO
3 pcs hand taps, Whitworth coarse thread

10010 | C.V. | UNI 2709 ≃ DIN 352 | BSW



R ≤ 600 N/mm²

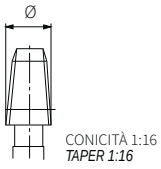
Applicazioni
Applications

- Leghe leggere *Light alloys*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

	Ø			l	L	pcs	cod.	€ cad/each
BSW	1/8	x	40	12	40	1	100101/8	6,774
	5/32	x	32	12	45	1	100105/32	6,774
	3/16	x	24	16	48	1	100103/16	6,774
	1/4	x	20	18	50	1	100101/4	7,655
	5/16	x	18	22	56	1	100105/16	8,014
	3/8	x	16	25	70	1	100103/8	9,688
	7/16	x	14	25	70	1	100107/16	11,395
	1/2	x	12	30	75	1	100101/2	14,059
	9/16	x	12	32	80	1	100109/16	15,793
	5/8	x	11	32	80	1	100105/8	18,418
	3/4	x	10	40	95	1	100103/4	25,120
	7/8	x	9	40	100	1	100107/8	34,373
	1”	x	8	50	110	1	100101	49,355
	1.1/8	x	7	56	125	1	100101.1/8	108,083
	1.1/4	x	7	56	125	1	100101.1/4	114,734
	1.3/8	x	6	63	150	1	100101.3/8	156,748
	1.1/2	x	6	63	150	1	100101.1/2	265,266
	1.3/4	x	5	70	160	1	100101.3/4	356,367
	2”	x	4.5	80	190	1	100102	531,868

MASCHI CONICI AL CV PER TUBI, FILETTATURA CONICA AMERICANA NPT
NPT taper thread /Tarauds conique NPT

10032 | C.V. | ANSI B2.1 | NPT - Conici



CONICITÀ 1:16
TAPER 1:16



R ≤ 600 N/mm²

Applicazioni
Applications

- Leghe leggere *Light alloys*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

	Ø			l	L	pcs	cod.	€ cad/each
NPT	1/8	x	27	19	54	1	100321/8	10,824
	1/4	x	18	27	62	1	100321/4	16,264
	3/8	x	18	27	65	1	100323/8	19,240
	1/2	x	14	35	79	1	100321/2	23,399
	3/4	x	14	35	83	1	100323/4	68,000
	1”	x	11,5	44	95	1	100321	98,455
	1.1/4	x	11,5	44	102	1	100321.1/4	151,921
	1.1/2	x	11,5	44	108	1	100321.1/2	221,849
	2”	x	11,5	44	114	1	100322	332,781

MASCHI A MANO AL CV SERIE 3 PEZZI, FILETTATURA AMERICANA A PASSO GROSSO UNC
3 pcs hand taps, UNC coarse pitch

10020 | **C.V.** | **ANSI B1.1** | **UNC**



R ≤ 600 N/mm²

Applicazioni
Applications

- Leghe leggere *Light alloys*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

	Ø			l	L	pcs	cod.	€ cad/each
N°	**5**	x	40	18	50	1	10020N05	**11,482**
	6	x	32	18	50	1	10020N06	**11,482**
	8	x	32	18	50	1	10020N08	**11,482**
	10	x	24	30	70	1	10020N10	**11,482**
	12	x	24	30	70	1	10020N12	**11,482**
UNC	**1/4**	x	20	30	70	1	100201/4	**11,482**
	5/16	x	18	30	70	1	100205/16	**13,006**
	3/8	x	16	35	75	1	100203/8	**14,295**
	7/16	x	14	40	80	1	100207/16	**18,505**
	1/2	x	13	45	85	1	100201/2	**24,079**
	9/16	x	12	45	90	1	100209/16	**29,221**
	5/8	x	11	47	100	1	100205/8	**33,914**
	3/4	x	10	50	110	1	100203/4	**46,139**
	7/8	x	9	60	120	1	100207/8	**55,445**
	1”	x	8	60	130	1	100201	**74,903**
	1.1/8	x	7	60	130	1	100201.1/8	**128,866**
	1.1/4	x	7	60	130	1	100201.1/4	**159,424**
	1.3/8	x	6	65	150	1	100201.3/8	**223,734**
	1.1/2	x	6	65	150	1	100201.1/2	**318,849**

MASCHI A MANO AL CV SERIE DI 2 PEZZI, FILETTATURA AMERICANA A PASSO FINE UNF

2 pcs hand taps, UNF fine pitch

10025 | **C.V.** | **ANSI B1.1** | **UNF**

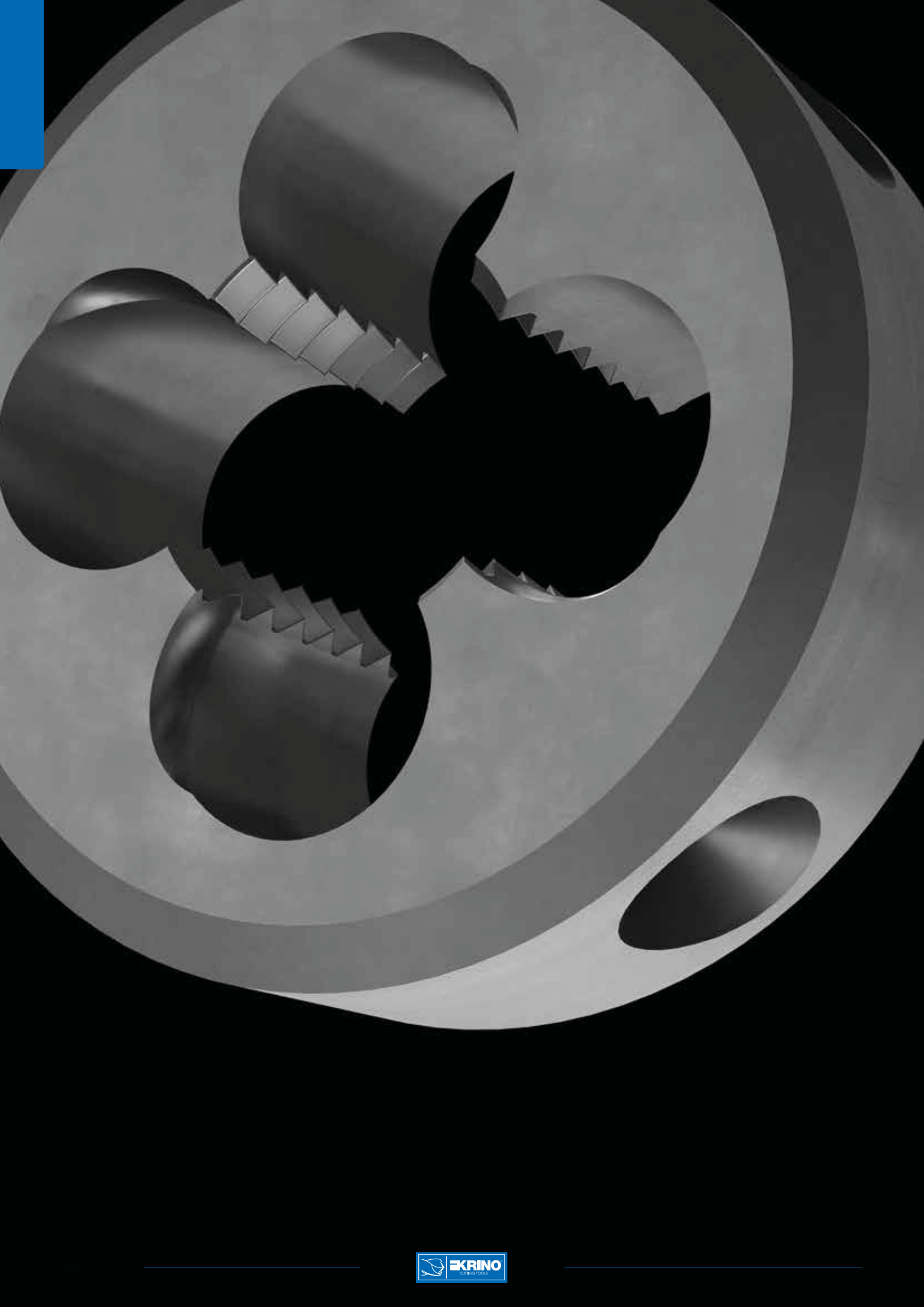


R ≤ 600 N/mm²

Applicazioni
Applications

- Leghe leggere *Light alloys*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

	Ø			l	L	pcs	cod.	€ cad/each
N°	5	x	44	11	36	1	10025N05	7,347
	6	x	40	12	40	1	10025N06	7,347
	8	x	36	12	40	1	10025N08	7,347
	10	x	32	14	45	1	10025N10	7,347
	12	x	28	14	50	1	10025N12	7,347
UNF	1/4	x	28	30	70	1	100251/4	7,347
	5/16	x	24	30	70	1	100255/16	8,718
	3/8	x	24	35	75	1	100253/8	9,476
	7/16	x	20	40	80	1	100257/16	12,423
	1/2	x	20	45	85	1	100251/2	16,090
	9/16	x	18	45	90	1	100259/16	19,471
	5/8	x	18	47	100	1	100255/8	22,617
	3/4	x	16	50	110	1	100253/4	30,805
	7/8	x	14	60	120	1	100257/8	42,657
	1”	x	12	60	130	1	100251	58,702
	1.1/8	x	12	60	130	1	100251.1/8	99,771
	1.1/4	x	12	60	130	1	100251.1/4	112,246
	1.3/8	x	12	65	150	1	100251.3/8	147,373
	1.1/2	x	12	65	150	1	100251.1/2	214,358



UTENSILI A FILETTARE: FILIERE

THREADING TOOLS: ROUND DIES

VISIONE D'INSIEME: FILIERE
Overview: round dies

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	FILETTATURA *THREAD*	SPECIALITÀ *FEATURES*	DIAMETRO INTERNO *INTERNAL DIAMETER*	NORMA *STANDARD*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	ACCIAO <1400 N/mm *STEEL <1400 N/mm*	ACCIAO <900 N/mm *STEEL <900 N/mm*	ACCIAO <700 N/mm *ACCIAO <700 N/mm*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM/ALLOYS*	R≤N/mm²	COD.	
HSS Co	-	M	-	3÷30	DIN 223		✓	✓	✓	✓	✓	✓	1200	12144	334
	-	MF	-	6÷24	DIN 223		✓	✓	✓	✓	✓	✓	1200	12146	334
	-	BSP	-	1/8÷1"	DIN 5158		✓	✓	✓	✓	✓	✓	1200	12148	335
HSS	TiN	M	-	3÷20	DIN 223		✓		✓	✓	✓	✓	950	12165	336
	-		-	1÷72	DIN 223				✓	✓	✓	✓	800	12060	337
	-		SINISTRA *SINISTRA*	2÷52	DIN 223				✓	✓	✓	✓	800	12062	338
	TiN		NON A NORMA DIN *NON A NORMA DIN*	3÷12			✓		✓	✓	✓	✓	950	12067	339
	-		NON A NORMA DIN *NON A NORMA DIN*	2÷20					✓	✓	✓	✓	800	12066	339
	-		ESAGONALI *ESAGONALI*	3÷68	DIN 382				✓	✓	✓	✓	800	12094	340
	TiN	MF	-	14÷22	DIN 223		✓		✓	✓	✓	✓	950	12165	336
	-		-	2,5÷82	DIN 223				✓	✓	✓	✓	800	12065	342
	-		SINISTRA *SINISTRA*	3÷36	DIN 223				✓	✓	✓	✓	800	12072	344
	-		NON A NORMA DIN *NON A NORMA DIN*						✓	✓	✓	✓	800	12066	339
	-		PER TUBI DI CONDUZIONE ELETTRICA *PER TUBI DI CONDUZIONE ELETTRICA*	12÷63	DIN 223				✓	✓	✓	✓	800	12069	346
	-		ESAGONALI *ESAGONALI*	3÷20	DIN 382				✓	✓	✓	✓	800	12096	347
	-	BSP	-	1/8÷4"	DIN 5158				✓	✓	✓	✓	800	12075	348
	-		SINISTRA *SINISTRA*	1/8÷2"	DIN 5158				✓	✓	✓	✓	800	12077	348
	-		ESAGONALI *ESAGONALI*	1/8÷2"	DIN 382				✓	✓	✓	✓	800	12098	349
	-	BSPT	CONICA 1:16 *CONICA 1:16*	1/8÷2"	352				✓	✓	✓	✓	800	12089	350

MATERIALE *MATERIAL*	RIVESTIMENTO *COATING*	FILETTATURA *THREAD*	SPECIALITÀ *FEATURES*	DIAMETRO INTERNO *INTERNAL DIAMETER*	NORMA *STANDARD*	IMMAGINE *IMAGE*	INOX *STAINLESS STEEL*	ACCIAO <1400 N/mm *STEEL <1400 N/mm*	ACCIAO <900 N/mm *STEEL <900 N/mm*	ACCIAO <700 N/mm *ACCIAO <700 N/mm*	OTTONE *BRASS*	ALLUMINIO E LEGHE *ALLUMINIUM/ALLOYS*	R≤N/mm²	COD.	
HSS	-	BSF	-	3/16÷1"	DIN 223				●	●	●	●	800	12087	350
	-	BSW	-	1/16÷2"	DIN 223				●	●	●	●	800	12070	351
	-		SINISTRA *SINISTRA*	1/8÷1"	DIN 223				●	●	●	●	800	12088	351
	-	NPT	CONICA 1:16 *CONICA 1:16*	1/16÷2"					●	●	●	●	800	12091	352
	-	UNC	-	4÷2"	DIN 223				●	●	●	●	800	12080	352
	-		SINISTRA *SINISTRA*	6÷1"	DIN 223				●	●	●	●	800	12082	353
	-	UNF	-	2÷1.1/2	DIN 223				●	●	●	●	800	12085	353
	-		SINISTRA *SINISTRA*	-	DIN 223				●	●	●	●	800	12086	354
	-	UNEF	-	1/4 ÷ 1.1/8	DIN 223				●	●	●	●	800	12079	354
	-	Pg	PER TUBI DI CONDUZIONE ELETTRICA *PER TUBI DI CONDUZIONE ELETTRICA*	13,5÷48	DIN 40434				●	●	●	●	800	12093	355
C.V.	-	M	-	2÷36	DIN 223					●	●	●	600	12001	356
	-	MF	-	6÷30	DIN 223					●	●	●	600	12005	357
	-	BSP	-	1/8÷2"	DIN 223					●	●	●	600	12015	358
	-	BSPT	CONICA 1:16 *CONICA 1:16*	1/8÷2"	DIN 223					●	●	●	600	12017	358
	-	BSF	-	3/16÷1"	DIN 223					●	●	●	600	12012	359
	-	BSW	-	1/8÷2"	DIN 223					●	●	●	600	12010	359
	-	NPT	CONICA 1:16 *CONICA 1:16*	1/8÷2"	DIN 223					●	●	●	600	12032	360
	-	UNC	-	5÷1.1/2	DIN 223					●	●	●	600	12020	360
	-	UNF	-	5÷1.1/2	DIN 223					●	●	●	600	12025	361

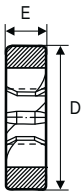
FILIERE TONDE AL COBALTO A IMBOCCO CORRETTO, FILETTATURA METRICA ISO A PASSO GROSSO
Round dies, spiral point, metric coarse thread

12144 HSS-CO DIN 223 - EN 22568 6g M

HRC = 63÷64
AISI M35
FORM B

Imbocco corretto
Spiral Point





	Ø	DxE	pcs	cod.	€ cad/each
M	3 x 0,5	20 x 5	1	1214403X05	22,335
	4 x 0,7	20 x 5	1	1214404X07	22,335
	5 x 0,8	20 x 7	1	1214405X08	22,922
	6 x 1	20 x 7	1	1214406X1	22,922
	8 x 1,25	25 x 9	1	1214408X125	23,834
	10 x 1,5	30 x 11	1	1214410X15	28,345
	12 x 1,75	38 x 14	1	1214412X175	44,174
	14 x 2	38 x 14	1	1214414X2	50,758
	16 x 2	45 x 18	1	1214416X2	68,254
	18 x 2,5	45 x 18	1	1214418X25	80,694
	20 x 2,5	45 x 18	1	1214420X25	80,694
	22 x 2,5	55 x 22	1	1214422X25	135,377
	24 x 3	55 x 22	1	1214424X3	135,377
	27 x 3	65 x 25	1	1214427X3	189,054
	30 x 3,5	65 x 25	1	1214430X35	189,054

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Metalli *Metals* · Olio *Oil*

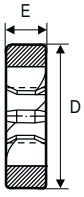
FILIERE TONDE AL COBALTO A IMBOCCO CORRETTO, FILETTATURA METRICA ISO A PASSO FINE
Round dies, spiral point, metric fine thread

12146 HSS-CO DIN 223 - EN 22568 6g MF

HRC = 63÷64
AISI M35
FORM B

Imbocco corretto
Spiral Point





	Ø	DxE	pcs	cod.	€ cad/each
M	6 x 0,75	20 x 7	1	1214606X075	33,019
	8 x 0,75	25 x 9	1	1214608X075	35,036
	8 x 1	25 x 9	1	1214608X1	35,036
	10 x 1	30 x 11	1	1214610X1	41,130
	10 x 1,25	30 x 11	1	1214610X125	46,049
	12 x 1	38 x 10	1	1214612X1	66,268
	12 x 1,25	38 x 10	1	1214612X125	59,636
	12 x 1,5	38 x 10	1	1214612X15	57,203
	14 x 1,25	38 x 10	1	1214614X125	63,090
	14 x 1,5	38 x 10	1	1214614X15	58,453
	16 x 1,5	45 x 14	1	1214616X15	89,862
	18 x 1,5	45 x 14	1	1214618X15	103,983
	18 x 2	45 x 14	1	1214618X2	108,041
	20 x 1,5	45 x 14	1	1214620X15	103,983
	20 x 2	45 x 14	1	1214620X2	108,041
	22 x 1,5	55 x 16	1	1214622X15	178,042
	24 x 1,5	55 x 16	1	1214624X15	178,042

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Metalli *Metals* · Olio *Oil*

FILIERE TONDE AL COBALTO A IMBOCCO CORRETTO, FILETTATURA GAS CILINDRICA ISO 228

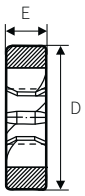
Spiral point round dies, spiral point, Whitworth pipe thread ISO 228

12148 **HSS-CO** **DIN 5158 - EN 24231** **BSP (GAS)**

HRC = 63÷64
AISI M35
FORM B

Imbocco corretto
Spiral Point





	Ø	DxE	pcs	cod.	€ cad/each
G	**1/8** x 28	30 x 11	1	121481/8	**56,189**
	1/4 x 19	38 x 10	1	121481/4	**63,018**
	3/8 x 19	45 x 14	1	121483/8	**90,940**
	1/2 x 14	45 x 14	1	121481/2	**90,940**
	3/4 x 14	55 x 16	1	121483/4	**121,725**
	1” x 11	65 x 18	1	121481	**196,570**

R ≤ 1200 N/mm²

Applicazioni
Applications

Inox *Stainless* · Acciaio *Steel* · Metalli *Metals* · Olio *Oil*

FILIERE TONDE IN HSS A IMBOCCO CORRETTO RIVESTITE AL TIN, FILETTATURA METRICA ISO A PASSO GROSSO

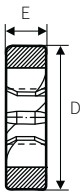
TiN round dies, metric coarse thread

12165 | HSS | TiN | **DIN 223 - EN 22568 6g** | **M**

HV 0,05 = 2500
AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 950 N/mm²

	Ø	DxE	pcs	cod.	€ cad/each
M	**3** x 0,5	20 x 5	1	1216503X05	**22,047**
	4 x 0,7	20 x 5	1	1216504X07	**22,047**
	5 x 0,8	20 x 7	1	1216505X08	**22,518**
	6 x 1	20 x 7	1	1216506X1	**22,518**
	8 x 1,25	25 x 9	1	1216508X125	**25,467**
	10 x 1,5	30 x 11	1	1216510X15	**30,692**
	12 x 1,75	38 x 14	1	1216512X175	**44,443**
	14 x 2	38 x 14	1	1216514X2	**48,887**
	16 x 2	45 x 18	1	1216516X2	**58,017**
	18 x 2,5	45 x 18	1	1216518X25	**67,381**
	20 x 2,5	45 x 18	1	1216520X25	**67,381**
MF	**14** x 1,5	38 x 14	1	1216514X15	**48,887**
	16 x 1,5	45 x 18	1	1216516X15	**58,017**
	18 x 1,5	45 x 18	1	1216518X15	**67,381**
	22 x 1,5	45 x 18	1	1216522X15	**127,456**

Applicazioni
Applications

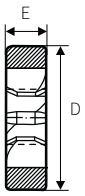
Inox *Stainless* | Acciaio *Steel* | Metalli *Metals* | Olio *Oil*

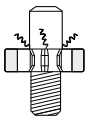
FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA METRICA ISO A PASSO GROSSO
Round dies, metric coarse thread

12060 | HSS | **DIN 223 - EN 22568 6g** | **M**

HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²



Confezione
Packaging



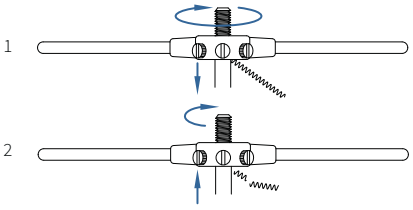
Applicazioni
Applications

- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

368 — 15037

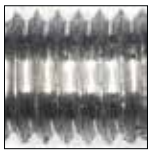
369 — 15035

	Ø	DxE	pcs	cod.	€ cad/each
M	**1** x 0,25	16 x 5	1	1206001X025	**46,012**
	1,1 x 0,25	16 x 5	1	12060011X025	**46,012**
	1,2 x 0,25	16 x 5	1	12060012X025	**46,012**
	1,4 x 0,3	16 x 5	1	12060014X03	**46,012**
	1,6 x 0,35	16 x 5	1	12060016X035	**46,012**
	1,7 x 0,35	16 x 5	1	12060017X035	**46,012**
	1,8 x 0,35	16 x 5	1	12060018X035	**46,012**
	2 x 0,4	16 x 5	1	1206002X04	**22,138**
	2,2 x 0,45	16 x 5	1	12060022X045	**28,268**
	2,3 x 0,4	16 x 5	1	12060023X04	**28,268**
	2,5 x 0,45	16 x 5	1	12060025X045	**22,309**
	2,6 x 0,45	16 x 5	1	12060026X045	**28,268**
	3 x 0,5	20 x 5	1	1206003X05	**18,670**
	3,5 x 0,6	20 x 5	1	12060035X06	**28,268**
	4 x 0,7	20 x 5	1	1206004X07	**18,670**
	4,5 x 0,75	20 x 7	1	12060045X075	**22,309**
	5 x 0,8	20 x 7	1	1206005X08	**19,309**
	5,5 x 0,9	20 x 7	1	12060055x09	**28,411**
	6 x 1	20 x 7	1	1206006X1	**20,261**
	7 x 1	25 x 9	1	1206007X1	**22,818**
	8 x 1,25	25 x 9	1	1206008X125	**21,474**
	9 x 1,25	25 x 9	1	1206009X125	**27,354**
	10 x 1,5	30 x 11	1	1206010X15	**24,264**
	11 x 1,5	30 x 11	1	1206011X15	**38,149**
	12 x 1,75	38 x 14	1	1206012X175	**35,542**
	14 x 2	38 x 14	1	1206014X2	**37,369**
	15 x 2	38 x 14	1	1206015X2	**58,672**
	16 x 2	45 x 18	1	1206016X2	**45,686**
	18 x 2,5	45 x 18	1	1206018X25	**50,158**
	19 x 2,5	45 x 18	1	1206019X25	**64,210**
	20 x 2,5	45 x 18	1	1206020X25	**54,486**
	22 x 2,5	55 x 22	1	1206022X25	**86,027**
	24 x 3	55 x 22	1	1206024X3	**101,358**
	27 x 3	65 x 25	1	1206027X3	**125,486**
	30 x 3,5	65 x 25	1	1206030X35	**135,746**
	33 x 3,5	65 x 25	1	1206033X35	**148,598**
	36 x 4	65 x 25	1	1206036X4	**152,927**
	39 x 4	75 x 30	1	1206039X4	**223,607**
	42 x 4,5	75 x 30	1	1206042X45	**238,037**
	45 x 4,5	90 x 36	1	1206045X45	**353,448**
	48 x 5	90 x 36	1	1206048X5	**321,315**
	52 x 5	90 x 36	1	1206052X5	**369,053**
	56 x 5,5	105 x 36	1	1206056X55	**496,085**
	60 x 5,5	105 x 36	1	1206060X55	**496,085**
	64 x 6	120 x 36	1	1206064X6	**498,505**
	68 x 6	120 x 36	1	1206068X6	**498,505**
	72 x 6	130 x 36	1	1206072X6	**1.689,088**



É buona norma, ad ogni rotazione della filiera[1], effettuare mezzo giro indietro per rompere il truciolo[2]

Please rotate clockwise the round die[1] then anticlockwise to break the chip[2]



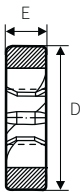
Risultato: ottima finitura del filetto
Result: good thread finishing

FILIERE TONDE IN HSS SINISTRE, FILETTATURA METRICA A PASSO GROSSO
Round dies, metric coarse thread, left hand

12062 | HSS | **DIN 223 - EN 22568 6g** | **M** | Sinistra / Left hand

HV = 63÷64
AISI M35
FORM B

Imbocco corretto
Spiral Point





Confezione
Packaging



1 pcs

R ≤ 800 N/mm²

Applicazioni
Applications

- Acciaio / *Steel*
- Metalli / *Metals*
- Alluminio / *Aluminum* (Alu)
- Olio / *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
M	**2** x 0,4	16 x 5	1	1206202X04	**41,395**
	3 x 0,5	20 x 5	1	1206203X05	**22,482**
	4 x 0,7	20 x 5	1	1206204X07	**22,482**
	5 x 0,8	20 x 7	1	1206205X08	**23,257**
	6 x 1	20 x 7	1	1206206X1	**23,257**
	7 x 1	25 x 9	1	1206207X1	**28,276**
	8 x 1,25	25 x 9	1	1206208X125	**24,639**
	10 x 1,5	30 x 11	1	1206210X15	**29,612**
	12 x 1,75	38 x 14	1	1206212X175	**45,387**
	14 x 2	38 x 14	1	1206214X2	**45,387**
	16 x 2	45 x 18	1	1206216X2	**61,004**
	18 x 2,5	45 x 18	1	1206218X25	**73,797**
	20 x 2,5	45 x 18	1	1206220X25	**73,797**
	22 x 2,5	55 x 22	1	1206222X25	**140,948**
	24 x 3	55 x 22	1	1206224X3	**140,948**
	27 x 3	65 x 25	1	1206227X3	**197,379**
	30 x 3,5	65 x 25	1	1206230X35	**197,379**
	33 x 3,5	65 x 25	1	1206233X35	**220,867**
	36 x 4	65 x 25	1	1206236X4	**242,633**
	39 x 4	75 x 30	1	1206239X4	**405,247**
	42 x 4,5	75 x 30	1	1206242X45	**405,247**
	45 x 4,5	90 x 36	1	1206245X45	**637,391**
	48 x 5	90 x 36	1	1206248X5	**637,391**
	52 x 5	90 x 36	1	1206252X5	**637,391**

FILIERE TONDE IN HSS NON A NORMA DIN, FILETTATURA METRICA ISO A PASSO GROSSO
Round dies with special outside diameter

12067 HSS TiN 6g NON A NORMA DIN M



Filiere con Ø esterno speciale
Round dies with special outside diameter

R ≤ 950 N/mm²

Applicazioni
Applications

Acciaio *Steel* · Metalli *Metals* · Alluminio *Aluminum* · Olio *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
M	3 x 0,5	25 x 9	1	12067203X05	16,423
	4 x 0,7	25 x 9	1	12067204X07	16,423
	5 x 0,8	25 x 9	1	12067205X08	16,423
	6 x 1	25 x 9	1	12067206X1	16,423
	8 x 1,25	25 x 9	1	12067208X125	16,861
	10 x 1,5	25 x 9	1	12067210X15	16,861
	12 x 1,75	25 x 9	1	12067212X175	17,462

12066 HSS 6g NON A NORMA DIN M



Filiere con Ø esterno speciale
Round dies with special outside diameter

R ≤ 800 N/mm²

Applicazioni
Applications

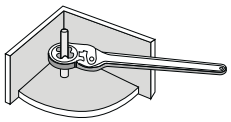
Acciaio *Steel* · Metalli *Metals* · Alluminio *Aluminum* · Olio *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
M	2 x 0,4	25 x 9	1	12066202X04	29,479
	3 x 0,5	25 x 9	1	12066203X05	12,994
	4 x 0,7	25 x 9	1	12066204X07	12,994
	5 x 0,8	25 x 9	1	12066205X08	12,994
	6 x 1	25 x 9	1	12066206X1	12,994
	7 x 1	25 x 9	1	12066207X1	12,994
	8 x 1,25	25 x 9	1	12066208X125	12,994
	10 x 1,5	25 x 9	1	12066210X15	12,994
	12 x 1,75	25 x 9	1	12066212X175	15,409
	10 x 1,5	38 x 14	1	12066310X15	22,037
	12 x 1,75	38 x 14	1	12066312X175	26,556
	14 x 2	38 x 14	1	12066314X2	26,556
	16 x 2	38 x 14	1	12066316X2	26,556
	18 x 2,5	38 x 14	1	12066318X25	30,544
	20 x 2,5	38 x 14	1	12066320X25	30,544

FILIERE IN HSS
ESAGONALI
Exagonal round dies

12094 | HSS | **DIN 382** 6g | **M**





R ≤ 800 N/mm²

Applicazioni
Applications

- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum* (Alu)
- Olio *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
M	**3** x 0,5	19 x 5	1	1209403x05	**28,651**
	4 x 0,7	19 x 5	1	1209404x07	**28,651**
	5 x 0,8	19 x 7	1	1209405x08	**28,651**
	6 x 1	19 x 7	1	1209406x1	**28,651**
	7 x 1	22 x 9	1	1209407x1	**30,520**
	8 x 1,25	22 x 9	1	1209408x125	**30,408**
	9 x 1,25	22 x 9	1	1209409x125	**30,520**
	10 x 1,5	27 x 11	1	1209410x15	**38,175**
	11 x 1,5	27 x 11	1	1209411x15	**38,175**
	12 x 1,75	36 x 14	1	1209412x175	**50,661**
	14 x 2	36 x 14	1	1209414x2	**50,661**
	16 x 2	41 x 18	1	1209416x2	**71,604**
	18 x 2,5	41 x 18	1	1209418x25	**71,604**
	20 x 2,5	41 x 18	1	1209420x25	**71,604**
	22 x 2,5	50 x 22	1	1209422x25	**133,951**
	24 x 3	50 x 22	1	1209424x3	**160,089**
	27 x 3	60 x 25	1	1209427x3	**239,875**
	30 x 3,5	60 x 25	1	1209430x35	**239,875**
	33 x 3,5	60 x 25	1	1209433x35	**239,875**
	36 x 4	60 x 25	1	1209436x4	**239,875**
	39 x 4	70 x 30	1	1209439x4	**396,593**
	42 x 4,5	70 x 30	1	1209442x45	**396,593**
	45 x 4,5	85 x 36	1	1209445x45	**550,113**
	48 x 5	85 x 36	1	1209448x5	**550,113**
	52 x 5	85 x 36	1	1209452x5	**550,113**
	56 x 5,5	100 x 36	1	1209456x55	**953,103**
	60 x 5,5	100 x 36	1	1209460x55	**953,103**
	64 x 6	100 x 36	1	1209464x6	**953,103**
	68 x 6	115 x 36	1	1209468x6	**1.247,351**

Per generare nuovi filetti e ripassare filettature danneggiate in punti di difficile accesso.

To generate new threads and overhaul the damaged ones.

FILIERE TONDE IN HSS A IMBOCCO CORRETTO RIVESTITE AL TIN, FILETTATURA METRICA ISO A PASSO FINE

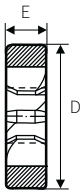
TiN round dies, metric coarse thread

12165 | HSS | TiN | **DIN 223 - EN 22568** 6g | **MF**

HV 0,05 = 2500
AISI M2
FORM B

Imbocco corretto
Spiral Point





	Ø	DxE	pcs	cod.	€ cad/each
MF	**14** x 1,5	38 x 14	1	1216514x15	**48,887**
	16 x 1,5	45 x 18	1	1216516x15	**58,017**
	18 x 1,5	45 x 18	1	1216518x15	**67,381**
	22 x 1,5	45 x 18	1	1216522x15	**127,456**

R ≤ 800 N/mm²

Applicazioni
Applications

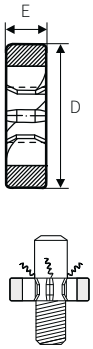
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA METRICA A PASSO FINE
Round dies, spiral point, metric fine thread

12065 | HSS | **DIN 223 - EN 22568 -** 6g | **MF**

HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

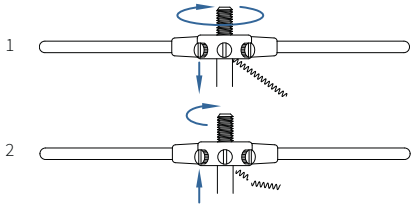
Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

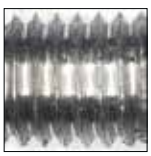
Alluminio
Aluminum

Olio
Oil



È buona norma, ad ogni rotazione della filiera[1], effettuare mezzo giro indietro per rompere il truciolo[2]

Please rotate clockwise the round die[1] then anticlockwise to break the chip[2]



Risultato:
ottima finitura del filetto

Result:
good thread finishing

Ø M84 x 1,5÷105 x 4
A richiesta
On demand



Confezione
Packaging



1 pcs

	Ø	DxE	pcs	cod.	€ cad/each
M	**2,5** x 0,35	16 x 5	1	12065025X035	**44,317**
	2,6 x 0,35	16 x 5	1	12065026X035	**44,317**
	3 x 0,35	20 x 5	1	1206503X035	**23,274**
	3,5 x 0,35	20 x 5	1	12065035X035	**27,928**
	4 x 0,35	20 x 5	1	1206504X035	**36,597**
	4 x 0,5	20 x 5	1	1206504X05	**25,601**
	4,5 x 0,5	20 x 5	1	12065045X05	**41,462**
	5 x 0,5	20 x 5	1	1206505X05	**25,601**
	5 x 0,75	20 x 7	1	1206505X075	**31,801**
	5,5 x 0,5	20 x 5	1	12065055X05	**41,462**
	6 x 0,5	20 x 5	1	1206506X05	**31,801**
	6 x 0,75	20 x 7	1	1206506X075	**31,801**
	7 x 0,5	25 x 9	1	1206507X05	**41,462**
	7 x 0,75	25 x 9	1	1206507X075	**31,801**
	8 x 0,5	25 x 9	1	1206508X05	**31,801**
	8 x 0,75	25 x 9	1	1206508X075	**25,347**
	8 x 1	25 x 9	1	1206508X1	**25,347**
	9 x 0,5	25 x 9	1	1206509X05	**55,842**
	9 x 0,75	25 x 9	1	1206509X075	**55,842**
	9 x 1	25 x 9	1	1206509X1	**34,486**
	10 x 0,5	30 x 11	1	1206510X05	**55,842**
	10 x 0,75	30 x 11	1	1206510X075	**30,339**
	10 x 1	30 x 11	1	1206510X1	**28,489**
	10 x 1,25	30 x 11	1	1206510X125	**28,489**
	11 x 1	30 x 11	1	1206511X1	**41,749**
	11 x 1,25	30 x 11	1	1206511X125	**41,749**
	12 x 0,5	38 x 10	1	1206512X05	**54,852**
	12 x 0,75	38 x 10	1	1206512X075	**54,852**
	12 x 1	38 x 10	1	1206512X1	**36,808**
	12 x 1,25	38 x 10	1	1206512X125	**36,808**
	12 x 1,5	38 x 10	1	1206512X15	**35,451**
	13 x 0,5	38 x 10	1	1206513X05	**70,797**
	13 x 0,75	38 x 10	1	1206513X075	**70,797**
	13 x 1	38 x 10	1	1206513X1	**57,761**
	13 x 1,5	38 x 10	1	1206513X15	**57,761**
	14 x 0,5	38 x 10	1	1206514X05	**70,902**
	14 x 0,75	38 x 10	1	1206514X075	**70,902**
	14 x 1	38 x 10	1	1206514X1	**45,117**
	14 x 1,25	38 x 10	1	1206514X125	**45,117**
	14 x 1,5	38 x 10	1	1206514X15	**45,117**
	15 x 0,75	38 x 10	1	1206515X075	**106,066**
	15 x 1	38 x 10	1	1206515X1	**92,232**
	15 x 1,5	38 x 10	1	1206515X15	**66,782**
	16 x 0,5	45 x 14	1	1206516X05	**114,240**
	16 x 0,75	45 x 14	1	1206516X075	**114,240**
	16 x 1	45 x 14	1	1206516X1	**60,456**
	16 x 1,25	45 x 14	1	1206516X125	**75,621**
	16 x 1,5	45 x 14	1	1206516X15	**50,380**
	17 x 1	45 x 14	1	1206517X1	**92,232**
	17 x 1,5	45 x 14	1	1206517X15	**114,087**
	18 x 0,5	45 x 14	1	1206518X05	**114,087**
	18 x 0,75	45 x 14	1	1206518X075	**114,087**
	18 x 1	45 x 14	1	1206518X1	**61,227**
	18 x 1,25	45 x 14	1	1206518X125	**92,232**
	18 x 1,5	45 x 14	1	1206518X15	**61,227**
	18 x 2	45 x 14	1	1206518X2	**61,227**
	19 x 1	45 x 14	1	1206519X1	**125,167**
	19 x 1,5	45 x 14	1	1206519X15	**92,232**
	20 x 0,5	45 x 14	1	1206520X05	**125,167**
	20 x 0,75	45 x 14	1	1206520X075	**125,167**
	20 x 1	45 x 14	1	1206520X1	**68,189**
	20 x 1,25	45 x 14	1	1206520X125	**68,189**
	20 x 1,5	45 x 14	1	1206520X15	**68,189**
	20 x 2	45 x 14	1	1206520X2	**68,189**
	21 x 1	45 x 14	1	1206521X1	**123,863**
	21 x 1,5	45 x 14	1	1206521X15	**110,003**
	22 x 0,5	55 x 16	1	1206522X05	**175,143**
	22 x 0,75	55 x 16	1	1206522X075	**175,143**

	Ø	DxE	pcs	cod.	€ cad/each
M	22 x 1	55 x 16	1	1206522X1	101,828
	22 x 1,25	55 x 16	1	1206522X125	101,828
	22 x 1,5	55 x 16	1	1206522X15	95,179
	22 x 2	55 x 16	1	1206522X2	95,179
	23 x 1	55 x 16	1	1206523X1	197,998
	23 x 1,5	55 x 16	1	1206523X15	197,998
	24 x 0,5	55 x 16	1	1206524X05	197,998
	24 x 0,75	55 x 16	1	1206524X075	197,998
	24 x 1	55 x 16	1	1206524X1	103,654
	24 x 1,25	55 x 16	1	1206524X125	103,654
	24 x 1,5	55 x 16	1	1206524X15	103,654
	24 x 2	55 x 16	1	1206524X2	103,654
	25 x 1	55 x 16	1	1206525X1	143,837
	25 x 1,5	55 x 16	1	1206525X15	143,837
	25 x 2	55 x 16	1	1206525X2	133,016
	26 x 1	55 x 16	1	1206526X1	179,719
	26 x 1,5	55 x 16	1	1206526X15	179,719
	26 x 2	55 x 16	1	1206526X2	179,719
	27 x 1	65 x 18	1	1206527X1	203,396
	27 x 1,5	65 x 18	1	1206527X15	203,396
	27 x 2	65 x 18	1	1206527X2	203,396
	28 x 1	65 x 18	1	1206528X1	203,396
	28 x 1,5	65 x 18	1	1206528X15	203,396
	28 x 2	65 x 18	1	1206528X2	203,396
	29 x 1,5	65 x 18	1	1206529X15	203,396
	30 x 1	65 x 18	1	1206530X1	203,396
	30 x 1,5	65 x 18	1	1206530X15	203,396
	30 x 2	65 x 18	1	1206530X2	203,396
	30 x 2,5	65 x 18	1	1206530X25	203,396
	30 x 3	65 x 25	1	1206530X3	203,396
	32 x 1	65 x 18	1	1206532X1	270,764
	32 x 1,5	65 x 18	1	1206532X15	201,441
	32 x 2	65 x 18	1	1206532X2	201,441
	32 x 3	65 x 25	1	1206532X3	201,441
	33 x 1,5	65 x 18	1	1206533X15	229,864
	33 x 2	65 x 18	1	1206533X2	229,864
	33 x 3	65 x 25	1	1206533X3	229,864
	34 x 1	65 x 18	1	1206534X1	270,764
	34 x 1,5	65 x 18	1	1206534X15	229,864
	34 x 2	65 x 18	1	1206534X2	229,864
	35 x 1	65 x 18	1	1206535X1	270,764
	35 x 1,5	65 x 18	1	1206535X15	241,142
	35 x 2	65 x 18	1	1206535X2	270,764
	36 x 1	65 x 18	1	1206536X1	270,764
	36 x 1,5	65 x 18	1	1206536X15	241,142
	36 x 2	65 x 18	1	1206536X2	241,142
	36 x 3	65 x 25	1	1206536X3	241,142
	37 x 1,5	65 x 18	1	1206537X15	470,471
	38 x 1	75 x 20	1	1206538X1	470,471
	38 x 1,5	75 x 20	1	1206538X15	334,168
	38 x 2	75 x 20	1	1206538X2	334,168
	38 x 3	75 x 30	1	1206538X3	448,972
	39 x 1,5	75 x 20	1	1206539X15	332,858
	39 x 2	75 x 20	1	1206539X2	332,858
	39 x 3	75 x 30	1	1206539X3	332,858
	40 x 1	75 x 20	1	1206540X1	448,972
	40 x 1,5	75 x 20	1	1206540X15	332,858
	40 x 2	75 x 20	1	1206540X2	332,858
	40 x 3	75 x 30	1	1206540X3	332,858
	42 x 1	75 x 20	1	1206542X1	448,972
	42 x 1,5	75 x 20	1	1206542X15	332,858
	42 x 2	75 x 20	1	1206542X2	332,858
	42 x 3	75 x 30	1	1206542X3	332,858
	44 x 1,5	90 x 22	1	1206544X15	727,654
	44 x 2	90 x 22	1	1206544X2	727,654
	45 x 1	90 x 22	1	1206545X1	727,654
	45 x 1,5	90 x 22	1	1206545X15	534,131
	45 x 2	90 x 22	1	1206545X2	534,131
	45 x 3	90 x 36	1	1206545X3	534,131
	46 x 1,5	90 x 22	1	1206546X15	727,654
	48 x 1	90 x 22	1	1206548X1	727,654
	48 x 1,5	90 x 22	1	1206548X15	534,131
	48 x 2	90 x 22	1	1206548X2	534,131
	48 x 3	90 x 36	1	1206548X3	534,131
	50 x 1,5	90 x 22	1	1206550X15	534,131
	50 x 2	90 x 22	1	1206550X2	534,131
	50 x 3	90 x 36	1	1206550X3	534,131
	52 x 1,5	90 x 22	1	1206552X15	534,131
	52 x 2	90 x 22	1	1206552X2	534,131
	52 x 3	90 x 36	1	1206552X3	534,131
	54 x 1	105 x 22	1	1206554X1	983,102
	54 x 1,5	105 x 22		1206554X15	1.033,460
	54 x 2	105 x 22	1	1206554X2	1.033,460
	54 x 3	105 x 36	1	1206554X3	1.033,460
	54 x 4	105 x 36	1	1206554X4	1.033,460
	55 x 1,5	105 x 22	1	1206555X15	1.033,460
	55 x 2	105 x 22	1	1206555X2	1.033,460
	55 x 3	105 x 36	1	1206555X3	1.033,460
	55 x 4	105 x 36	1	1206555X4	1.033,460
	56 x 1	105 x 22	1	1206556X1	1.033,460
	56 x 1,5	105 x 22	1	1206556X15	1.033,460
	56 x 2	105 x 22	1	1206556X2	1.033,460
	56 x 3	105 x 36	1	1206556X3	1.033,460
	56 x 4	105 x 36	1	1206556X4	1.033,460
	58 x 1	105 x 22	1	1206558X1	1.033,460
	58 x 1,5	105 x 22	1	1206558X15	1.033,460
	58 x 2	105 x 22	1	1206558X2	1.033,460
	58 x 3	105 x 36	1	1206558X3	1.033,460
	58 x 4	105 x 36	1	1206558X4	1.033,460
	60 x 1,5	105 x 22	1	1206560X15	1.033,460
	60 x 2	105 x 22	1	1206560X2	1.033,460
	60 x 3	105 x 36	1	1206560X3	1.033,460
	60 x 4	105 x 36	1	1206560X4	1.033,460
	62 x 1,5	105 x 22	1	1206562X15	1.033,460
	62 x 2	105 x 22	1	1206562X2	1.033,460
	62 x 3	105 x 36	1	1206562X3	1.033,460
	62 x 4	105 x 36	1	1206562X4	1.033,460
	63 x 1,5	105 x 22	1	1206563X15	1.033,460
	64 x 1,5	120 x 22	1	1206564X15	1.184,289
	64 x 2	120 x 22	1	1206564X2	1.184,289
	64 x 3	120 x 36	1	1206564X3	1.184,289
	64 x 4	120 x 36	1	1206564X4	1.184,289
	65 x 1,5	120 x 22	1	1206565X15	1.184,289
	65 x 2	120 x 22	1	1206565X2	1.184,289
	65 x 3	120 x 36	1	1206565X3	1.184,289
	65 x 4	120 x 36	1	1206565X4	1.184,289
	68 x 1,5	120 x 22	1	1206568X15	1.184,289
	68 x 2	120 x 22	1	1206568X2	1.184,289
	68 x 3	120 x 36	1	1206568X3	1.184,289
	68 x 4	120 x 36	1	1206568X4	1.184,289
	70 x 1,5	120 x 22	1	1206570X15	1.184,289
	70 x 2	120 x 22	1	1206570X2	1.184,289
	70 x 3	120 x 36	1	1206570X3	1.184,289
	70 x 4	120 x 36	1	1206570X4	1.184,289
	72 x 1,5	120 x 22	1	1206572X15	1.184,289
	72 x 2	120 x 22	1	1206572X2	1.184,289
	72 x 3	120 x 36	1	1206572X3	1.184,289
	72 x 4	120 x 36	1	1206572X4	1.184,289
	74 x 1,5	120 x 22	1	1206574X15	1.184,289
	74 x 2	120 x 22	1	1206574X2	1.184,289
	74 x 3	120 x 36	1	1206574X3	1.184,289
	74 x 4	120 x 36	1	1206574X4	1.184,289
	75 x 1,5	120 x 22	1	1206575X15	1.184,289
	75 x 2	120 x 22	1	1206575X2	1.184,289
	75 x 3	120 x 36	1	1206575X3	1.184,289
	75 x 4	120 x 36	1	1206575X4	1.184,289
	76 x 1,5	120 x 22	1	1206576X15	1.184,289
	76 x 2	120 x 22	1	1206576X2	1.184,289
	76 x 3	120 x 36	1	1206576X3	1.184,289
	76 x 4	120 x 36	1	1206576X4	1.184,289
	78 x 1,5	120 x 22	1	1206578X15	1.184,289
	78 x 2	120 x 22	1	1206578X2	1.184,289
	78 x 3	120 x 36	1	1206578X3	1.184,289
	78 x 4	120 x 36	1	1206578X4	1.184,289
	80 x 1,5	120 x 22	1	1206580X15	1.184,289
	80 x 2	120 x 22	1	1206580X2	1.184,289
	80 x 3	120 x 36	1	1206580X3	1.184,289
	80 x 4	120 x 36	1	1206580X4	1.184,289
	82 x 1,5	130 x 25	1	1206582X15	1.484,615
	82 x 2	130 x 25	1	1206582X2	1.484,615
	82 x 3	130 x 36	1	1206582X3	1.484,615
	82 x 4	130 x 36	1	1206582X4	1.484,615
	82 x 1,5	130 x 25	1	1206582X15	1.484,615
	82 x 2	130 x 25	1	1206582X2	1.484,615
	82 x 3	130 x 36	1	1206582X3	1.484,615
	82 x 4	130 x 36	1	1206582X4	1.484,615

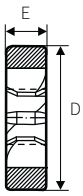
FILIERE TONDE IN HSS SINISTRE, FILETTATURA METRICA A PASSO FINE
Round dies, spiral point, metric fine thread

12072 | HSS | **DIN 223 - EN 22568** 6g | **MF** | Sinistra / Left hand



HV = 62÷63
AISI M35
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

Ø M37 x 1,5÷48 x 3
A richiesta
On demand

	Ø	DxE	pcs	cod.	€ cad/each
M	3 x 0,35	20 x 5	1	1207203X035	43,543
	4 x 0,5	20 x 5	1	1207204X05	43,543
	4,5 x 0,5	20 x 5	1	12072045X05	43,543
	5 x 0,75	20 x 7	1	1207205X075	43,543
	5,5 x 0,5	20 x 5	1	12072055X05	43,543
	6 x 0,5	20 x 5	1	1207206X05	43,543
	6 x 0,75	20 x 7	1	1207206X075	43,543
	7 x 0,5	25 x 9	1	1207207X05	46,222
	7 x 0,75	25 x 9	1	1207207X075	46,222
	8 x 0,75	25 x 9	1	1207208X075	46,222
	8 x 1	25 x 9	1	1207208X1	46,222
	9 x 0,5	25 x 9	1	1207209X05	54,274
	10 x 1	30 x 11	1	1207210X1	54,274
	10 x 1,25	30 x 11	1	1207210X125	54,274
	12 x 1	38 x 10	1	1207212X1	64,731
	12 x 1,25	38 x 10	1	1207212X125	71,408
	12 x 1,5	38 x 10	1	1207212X15	68,644
	13 x 1,5	38 x 10	1	1207213X15	75,688
	14 x 1	38 x 10	1	1207214X1	75,688
	14 x 1,25	38 x 10	1	1207214X125	75,688
	14 x 1,5	38 x 10	1	1207214X15	69,965
	15 x 1,5	38 x 10	1	1207215X15	107,857
	16 x 1	45 x 14	1	1207216X1	107,857
	16 x 1,25	45 x 14	1	1207216X125	107,857
	16 x 1,5	45 x 14	1	1207216X15	107,857
	18 x 1	45 x 14	1	1207218X1	117,254
	18 x 1,25	45 x 14	1	1207218X125	117,254
	18 x 1,5	45 x 14	1	1207218X15	117,254
	18 x 2	45 x 14	1	1207218X2	117,254
	20 x 1,25	45 x 14	1	1207220X125	117,254
	20 x 1,5	45 x 14	1	1207220X15	117,254
	20 x 2	45 x 14	1	1207220X2	117,254
	22 x 1,25	55 x 16	1	1207222X125	177,057
	22 x 1,5	55 x 16	1	1207222X15	177,057
	22 x 2	55 x 16	1	1207222X2	177,057
	23 x 1,5	55 x 16	1	1207223X15	177,057
	24 x 1,25	55 x 16	1	1207224X125	177,057
	24 x 1,5	55 x 16	1	1207224X15	177,057
	24 x 2	55 x 16	1	1207224X2	177,057
	25 x 1,5	55 x 16	1	1207225X15	177,057
	25 x 2	55 x 16	1	1207225X2	177,057
	26 x 1,5	55 x 16	1	1207226X15	220,928
	26 x 2	55 x 16	1	1207226X2	220,928
	27 x 1,5	65 x 18	1	1207227X15	220,928
	27 x 2	65 x 18	1	1207227X2	220,928
	28 x 1,5	65 x 18	1	1207228X15	220,928
	28 x 2	65 x 18	1	1207228X2	220,928
	30 x 1,5	65 x 18	1	1207230X15	315,264
	30 x 2	65 x 18	1	1207230X2	315,264
	30 x 2,5	65 x 18	1	1207230X25	315,264
	30 x 3	65 x 25	1	1207230X3	315,264
	32 x 1,5	65 x 18	1	1207232X15	315,264
	32 x 2	65 x 18	1	1207232X2	315,264
	32 x 3	65 x 25	1	1207232X3	315,264
	33 x 1,5	65 x 18	1	1207233X15	331,027
	33 x 2	65 x 18	1	1207233X2	331,027
	33 x 3	65 x 18	1	1207233X3	331,027
	34 x 1,5	65 x 18	1	1207234X15	339,516
	34 x 2	65 x 18	1	1207234X2	339,516
	35 x 1,5	65 x 25	1	1207235X15	339,516
	35 x 2	65 x 18	1	1207235X2	339,516
	36 x 1,5	65 x 18	1	1207236X15	339,516
	36 x 2	65 x 18	1	1207236X2	339,516
	36 x 3	65 x 18	1	1207236X3	339,516

FILIERE TONDE IN HSS NON A NORMA DIN, FILETTATURA METRICA ISO A PASSO FINE
NPRound dies with special outside diameter

12066 | HSS | 6g | **NON A NORMA DIN** | **MF**



Filiere con Ø esterno speciale
Round dies with special outside diameter

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
MF	**8** x 1	25 x 9	1	12066208X1	**12,671**
	10 x 1	38 x 14	1	12066310X1	**22,059**
	10 x 1,25	38 x 14	1	12066310X125	**22,059**
	12 x 1,25	38 x 14	1	12066312X125	**26,556**
	12 x 1,5	38 x 14	1	12066312X15	**26,556**
	14 x 1,25	38 x 14	1	12066314X125	**26,556**
	14 x 1,5	38 x 14	1	12066314X15	**26,556**
	16 x 1,5	38 x 14	1	12066316X15	**26,556**
	18 x 1,5	38 x 14	1	12066318X15	**30,544**

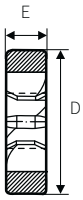
FILIERE TONDE IN HSS, FILETTATURA METRICA A PASSO FINE PER TUBI DI CONDUZIONE ELETTRICA

Round dies, metric fine thread for cables connections

12069 | HSS | **DIN 223 - EN 22568** 6g | **MF**

HV ≃ 62÷63
AISI M2
FORM B

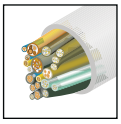
Imbocco corretto
Spiral Point



R ≤ 800 N/mm²



	Ø	DxE	pcs	cod.	€ cad/each
MF	**12** x 1,5	38 x 10	1	1206912X15	**32,971**
	16 x 1,5	45 x 14	1	1206916X15	**46,853**
	20 x 1,5	45 x 14	1	1206920X15	**60,396**
	25 x 1,5	55 x 16	1	1206925X15	**133,767**
	32 x 1,5	65 x 18	1	1206932X15	**187,339**
	40 x 1,5	75 x 20	1	1206940X15	**332,858**
	50 x 1,5	90 x 22	1	1206950X15	**534,131**
	63 x 1,5	105 x 22	1	1206963X15	**1.033,460**



Per tubi di conduzione elettrica
For electrical conduction tubes

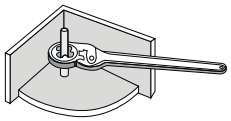
Applicazioni
Applications

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Olio *Oil*

FILIERE ESAGONALI IN HSS, FILETTAURA METRICA ISO A PASSO FINE
Exagonal round dies, metric fine thread

12096 | HSS | **DIN 382** 6g | **MF**





R ≤ 800 N/mm²

Applicazioni
Applications

- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
MF	**3** x 0,35	19 x 5	1	1209603x035	**59,644**
	4 x 0,35	19 x 5	1	1209604x035	**59,644**
	4 x 0,5	19 x 5	1	1209604x05	**59,644**
	5 x 0,5	19 x 5	1	1209605x05	**59,644**
	5 x 0,75	19 x 7	1	1209605x075	**59,644**
	6 x 0,5	19 x 5	1	1209606x05	**59,644**
	6 x 0,75	19 x 7	1	1209606x075	**59,644**
	7 x 0,75	22 x 9	1	1209607x075	**63,768**
	8 x 0,5	22 x 9	1	1209608x05	**63,768**
	8 x 0,75	22 x 9	1	1209608x075	**63,768**
	8 x 1	22 x 9	1	1209608x1	**63,768**
	9 x 0,75	22 x 9	1	1209609x075	**63,768**
	9 x 1	22 x 9	1	1209609x1	**63,768**
	10 x 0,75	27 x 11	1	1209610x075	**63,768**
	10 x 1	27 x 11	1	1209610x1	**63,768**
	10 x 1,25	27 x 11	1	1209610x125	**63,768**
	11 x 1	27 x 11	1	1209611x1	**87,414**
	11 x 1,25	27 x 11	1	1209611x125	**87,414**
	12 x 0,75	36 x 10	1	1209612x075	**87,414**
	12 x 1	36 x 10	1	1209612x1	**87,414**
	12 x 1,25	36 x 10	1	1209612x125	**87,414**
	12 x 1,5	36 x 10	1	1209612x15	**84,114**
	13 x 1	36 x 10	1	1209613x1	**95,355**
	13 x 1,5	36 x 10	1	1209613x15	**95,355**
	14 x 0,75	36 x 10	1	1209614x075	**95,355**
	14 x 1	36 x 10	1	1209614x1	**95,355**
	14 x 1,25	36 x 10	1	1209614x125	**95,355**
	14 x 1,5	36 x 10	1	1209614x15	**95,355**
	15 x 1	36 x 10	1	1209615x1	**123,402**
	15 x 1,5	36 x 10	1	1209615x15	**123,402**
	16 x 1	41 x 14	1	1209616x1	**123,402**
	16 x 1,25	41 x 14	1	1209616x125	**123,402**
	16 x 1,5	41 x 14	1	1209616x15	**123,402**
	18 x 1	41 x 14	1	1209618x1	**123,402**
	18 x 1,25	41 x 14	1	1209618x125	**123,402**
	18 x 1,5	41 x 14	1	1209618x15	**123,402**
	18 x 2	41 x 14	1	1209618x2	**123,402**
	20 x 1	41 x 14	1	1209620x1	**123,402**
	20 x 1,25	41 x 14	1	1209620x125	**123,402**
	20 x 1,5	41 x 14	1	1209620x15	**123,402**
	20 x 2	41 x 14	1	1209620x2	**123,402**

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA GAS CILINDRICA ISO 228

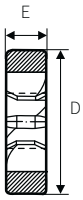
Spiral point round dies, spiral point, BSP pipe thread ISO 228

12075 HSS DIN 5158 - EN 24231 BSP (GAS)

HV ≃ 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
G	1/8 x 28	30 x 11	1	120751/8	40,367
	1/4 x 19	38 x 10	1	120751/4	44,342
	3/8 x 19	45 x 14	1	120753/8	63,706
	1/2 x 14	45 x 14	1	120751/2	65,218
	5/8 x 14	55 x 16	1	120755/8	97,160
	3/4 x 14	55 x 16	1	120753/4	142,430
	7/8 x 14	65 x 18	1	120757/8	150,891
	1" x 11	65 x 18	1	120751	156,536
	1.1/8 x 11	75 x 20	1	120751.1/8	219,995
	1.1/4 x 11	75 x 20	1	120751.1/4	219,995
	1.3/8 x 11	90 x 22	1	120751.3/8	291,912
	1.1/2 x 11	90 x 22	1	120751.1/2	291,912
	1.5/8 x 11	90 x 22	1	120751.5/8	303,191
	1.3/4 x 11	90 x 22	1	120751.3/4	363,829
	1.3/4 x 11	105 x 22	1	120751.3/4105	363,829
	2" x 11	90 x 22	1	1207592	468,189
	2" x 11	105 x 22	1	1207512	561,827
	2.1/4 x 11	105 x 22	1	120752.1/4	705,819
	2.1/2 x 11	120 x 22	1	120752.1/2	875,738
	2.3/4 x 11	120 x 22	1	120752.3/4	1.460,281
	3" x 11	130 x 25	1	120753	1.629,777
	3.1/2 x 11	150 x 25	1	120753.1/2	2.659,666
	4" x 11	160 x 25	1	120754	3.324,746

SINISTRI *LEFT HAND*

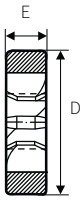
12077 HSS DIN 5158 - EN 24231 BSP (GAS)

Sinistra
Left hand

HV ≃ 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

Applicazioni
Applications

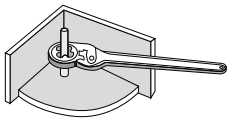
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
G	1/8 x 28	30 x 11	1	120771/8	82,951
	1/4 x 19	38 x 10	1	120771/4	95,143
	3/8 x 19	45 x 14	1	120773/8	137,751
	1/2 x 14	45 x 14	1	120771/2	137,751
	5/8 x 14	55 x 16	1	120775/8	186,577
	3/4 x 14	55 x 16	1	120773/4	233,855
	7/8 x 14	65 x 18	1	120777/8	258,920
	1" x 11	65 x 18	1	120771	258,920
	1.1/8 x 11	75 x 20	1	120771.1/8	310,951
	1.1/4 x 11	75 x 20	1	120771.1/4	310,951
	1.1/2 x 11	90 x 22	1	120771.1/2	507,676
	1.3/4 x 11	105 x 22	1	120771.3/4	880,819
	2" x 11	105 x 22	1	120772	880,818

FILIERE IN HSS ESAGONALI
FILETTURA BSP (GAS)
Exagonal round dies BSP pipe thread

12098 | HSS | **DIN 382** | **BSP**





	Ø	DxE	pcs	cod.	€ cad/each
G	**1/8** x 28	27 x 11	1	120981/8	**60,287**
	1/4 x 19	36 x 10	1	120981/4	**72,376**
	3/8 x 19	41 x 14	1	120983/8	**107,500**
	1/2 x 14	41 x 14	1	120981/2	**107,500**
	5/8 x 14	50 x 16	1	120985/8	**206,460**
	3/4 x 14	50 x 16	1	120983/4	**206,460**
	7/8 x 14	60 x 18	1	120987/8	**253,841**
	1” x 11	60 x 18	1	120981	**253,841**
	1.1/8 x 11	70 x 20	1	120981.1/8	**362,136**
	1.1/2 x 11	85 x 22	1	120981.1/2	**578,753**
	2” x 11	100 x 22	1	120982	**894,513**

R ≤ 800 N/mm²

Applicazioni
Applications

- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Olio *Oil*

In esaurimento
To be discontinued

		cod.	€ cad/each
G	**1/8 - 1/4 - 3/8 1/2 - 3/4 - 1**	12100500 BSP 1/8÷1”	**930,747**

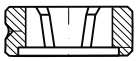
Kit per idraulici e installatori
For plumbers and journeymen



FILIERE TONDE IN HSS,
FILETTATURA CONICA PER TUBI 1:16 BSPT
Round dies, Whitworth taper thread 1:16 BSPT

12089 HSS **BSPT - Conica**





Conicità 1:16
Taper 1:16

	Ø	DxE	pcs	cod.	€ cad/each
Rc	**1/8** x 28	30 x 11	1	120891/8	**58,940**
	1/4 x 19	38 x 14	1	120891/4	**64,950**
	3/8 x 19	45 x 18	1	120893/8	**84,064**
	1/2 x 14	45 x 18	1	120891/2	**129,077**
	3/4 x 14	55 x 22	1	120893/4	**141,643**
	1” x 11	65 x 25	1	120891	**202,179**
	1.1/4 x 11	75 x 26	1	120891.1/4	**394,082**
	1.1/2 x 11	90 x 27	1	120891.1/2	**673,938**
	2” x 11	105 x 28	1	120892	**1.016,618**

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

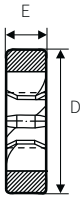
FILIERE TONDE IN HSS A IMBOCCO CORRETTO,
FILETTATURA WHITWORTH A PASSO FINE
Round dies, spiral point, Whitworth BSF thread BS-84

12087 HSS **DIN 223 - EN 22568** **BSF**

HV = 62÷63
AISI M2
FORM B



Imbocco corretto
Spiral Point



	Ø	DxE	pcs	cod.	€ cad/each
BSF	**3/16** x 32	20 x 7	1	120873/16	**39,414**
	1/4 x 26	25 x 9	1	120871/4	**44,059**
	5/16 x 22	25 x 9	1	120875/16	**44,059**
	3/8 x 20	30 x 11	1	120873/8	**53,794**
	7/16 x 18	30 x 11	1	120877/16	**53,794**
	1/2 x 16	38 x 10	1	120871/2	**62,686**
	9/16 x 16	38 x 10	1	120879/16	**68,098**
	5/8 x 14	45 x 14	1	120875/8	**85,972**
	3/4 x 12	45 x 14	1	120873/4	**90,060**
	7/8 x 11	55 x 22	1	120877/8	**143,348**
	1” x 10	55 x 22	1	120871	**143,348**

R ≤ 800 N/mm²

Applicazioni
Applications

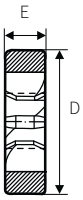
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA WHITWORTH A PASSO GROSSO BS-84
Round dies, spiral point, Whitworth BSW thread BS-84

12070 HSS DIN 223 - EN 22568 BSW

HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²



	Ø	DxE	pcs	cod.	€ cad/each
BSW	**1/16** x 60	16 x 5	1	120701/16	**44,004**
	3/32 x 48	16 x 5	1	120703/32	**44,004**
	1/8 x 40	20 x 5	1	120701/8	**32,108**
	5/32 x 32	20 x 5	1	120705/32	**30,194**
	3/16 x 24	20 x 7	1	120703/16	**30,194**
	7/32 x 24	20 x 7	1	120707/32	**30,194**
	1/4 x 20	25 x 9	1	120701/4	**30,194**
	5/16 x 18	25 x 9	1	120705/16	**33,211**
	3/8 x 16	30 x 11	1	120703/8	**41,748**
	7/16 x 14	30 x 11	1	120707/16	**41,748**
	1/2 x 12	38 x 14	1	120701/2	**46,089**
	9/16 x 12	38 x 14	1	120709/16	**67,358**
	5/8 x 11	45 x 18	1	120705/8	**67,358**
	3/4 x 10	45 x 18	1	120703/4	**74,997**
	7/8 x 9	55 x 22	1	120707/8	**103,042**
	1” x 9	55 x 22	1	120701	**108,451**
	1.1/8 x 7	65 x 25	1	120701.1/8	**144,269**
	1.1/4 x 7	65 x 25	1	120701.1/4	**144,269**
	1.3/8 x 6	65 x 25	1	120701.3/8	**207,213**
	1.1/2 x 6	65 x 22	1	1207061.1/2	**257,050**
	1.1/2 x 6	75 x 30	1	1207071.1/2	**449,178**
	1.5/8 x 5	75 x 30	1	120701.5/8	**302,958**
	1.3/4 x 5	90 x 36	1	120701.3/4	**416,923**
	1.7/8 x 4,5	90 x 36	1	120701.7/8	**416,923**
	2” x 4,5	90 x 36	1	120702	**416,923**

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA SINISTRA WHITWORTH A PASSO GROSSO
Round dies, spiral point, Whitworth BSW thread, LEFT HAND

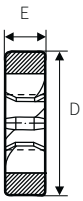
SINISTRE *LEFT HAND*

12088 HSS DIN 223 - EN 22568 BSW

Sinistra
Left hand

HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²



	Ø	DxE	pcs	cod.	€ cad/each
BSW	**1/8** x 40	20 x 5	1	120881/8	**49,164**
	5/32 x 32	20 x 5	1	120885/32	**49,164**
	3/16 x 24	20 x 7	1	120883/16	**49,164**
	1/4 x 20	20 x 7	1	120881/4	**49,164**
	5/16 x 18	25 x 9	1	120885/16	**54,969**
	3/8 x 16	30 x 11	1	120883/8	**64,179**
	7/16 x 14	30 x 11	1	120887/16	**70,432**
	1/2 x 12	38 x 14	1	120881/2	**105,878**
	9/16 x 12	38 x 14	1	120889/16	**105,878**
	5/8 x 11	45 x 18	1	120885/8	**134,753**
	3/4 x 10	45 x 18	1	120883/4	**134,753**
	7/8 x 9	55 x 22	1	120887/8	**195,714**
	1” x 8	55 x 22	1	120881	**195,714**

Applicazioni
Applications

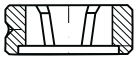
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS,
FILETTATURA CONICA AMERICANA PER TUBI 1:16 NPT
Round dies, taper pipe thread NPT

12091 HSS

NPT - Conica





Conicità 1:16
Taper 1:16

		Ø	DxE	pcs	cod.	€ cad/each
NPT	**1/16**	x 27	25 x 9	1	120911/16	**47,992**
	1/8	x 27	30 x 11	1	120911/8	**58,940**
	1/4	x 18	38 x 14	1	120911/4	**64,950**
	3/8	x 18	45 x 18	1	120913/8	**84,064**
	1/2	x 14	45 x 18	1	120911/2	**129,077**
	3/4	x 14	55 x 22	1	120913/4	**141,643**
	1”	x 11,5	65 x 25	1	120911	**202,179**
	1.1/4	x 11,5	75 x 26	1	120911.1/4	**394,082**
	1.1/2	x 11,5	90 x 27	1	120911.1/2	**673,938**
	2”	x 11,5	105 x 28	1	120912	**1.016,618**

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS A IMBOCCO CORRETTO,
FILETTATURA AMERICANA UNC PASSO GROSSO ANSI B1.1
Round dies, spiral point, unified coarse thread UNC

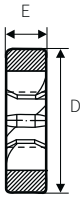
12080 HSS **DIN 223 - EN 22568**

UNC

HV ≃ 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point





		Ø	DxE	pcs	cod.	€ cad/each
N°	**4**	x 40	20 x 5	1	12080N04	**43,065**
	5	x 40	20 x 5	1	12080N05	**37,289**
	6	x 32	20 x 7	1	12080N06	**37,289**
	8	x 32	20 x 7	1	12080N08	**37,289**
	10	x 24	20 x 7	1	12080N10	**37,289**
	12	x 24	20 x 7	1	12080N12	**37,289**
UNC	**1/4**	x 20	20 x 7	1	120801/4	**34,133**
	5/16	x 18	25 x 9	1	120805/16	**38,033**
	3/8	x 16	30 x 11	1	120803/8	**46,872**
	7/16	x 14	30 x 11	1	120807/16	**46,872**
	1/2	x 13	38 x 14	1	120801/2	**54,433**
	9/16	x 12	38 x 14	1	120809/16	**59,389**
	5/8	x 11	45 x 18	1	120805/8	**74,696**
	3/4	x 10	45 x 18	1	120803/4	**78,412**
	7/8	x 9	55 x 22	1	120807/8	**110,016**
	1”	x 8	55 x 22	1	120801	**113,745**
	1.1/8	x 7	65 x 25	1	120801.1/8	**164,998**
	1.1/4	x 7	65 x 25	1	120801.1/4	**164,998**
	1.3/8	x 6	65 x 25	1	120801.3/8	**164,998**
	1.1/2	x 6	65 x 25	1	1208061.1/2	**351,146**
	1.1/2	x 6	75 x 30	1	1208071.1/2	**351,146**
	1.5/8	x 5	75 x 30	1	120801.5/8	**351,146**
	1.3/4	x 5	90 x 36	1	120801.3/4	**471,007**
	1.7/8	x 4,5	90 x 36	1	120801.7/8	**471,007**
	2”	x 4,5	90 x 36	1	120802	**584,112**

R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS SINISTRE, FILETTATURA AMERICANA UNC PASSO GROSSO ANSI B1.1

Round dies, spiral point, unified coarse thread UNC

12082 HSS DIN 223 - EN 22568

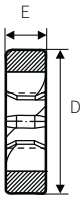
UNC

Sinistra
Left hand



HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
N°	**6** x 32	20 x 7	1	12082NR06	**52,730**
	8 x 32	20 x 7	1	12082NR08	**52,730**
	10 x 24	20 x 7	1	12082NR10	**52,730**
UNC	**1/4** x 20	20 x 7	1	120821/4	**43,131**
	5/16 x 18	25 x 9	1	120825/16	**51,125**
	3/8 x 16	30 x 11	1	120823/8	**60,652**
	7/16 x 14	38 x 14	1	120827/16	**60,652**
	1/2 x 13	38 x 14	1	120821/2	**95,841**
	9/16 x 12	38 x 14	1	120829/16	**95,841**
	5/8 x 11	45 x 18	1	120825/8	**121,367**
	3/4 x 10	45 x 18	1	120823/4	**121,367**
	7/8 x 9	55 x 22	1	120827/8	**175,692**
	1” x 8	55 x 22	1	120821	**175,693**

FILIERE TONDE IN HSS, FILETTATURA AMERICANA UNF A PASSO FINE ANSI B1.1

Round dies, unified fine thread UNF

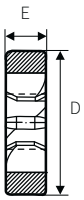
12085 HSS DIN 223 - EN 22568

UNF



HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

	Ø	DxE	pcs	cod.	€ cad/each
N°	**2** x 64	16 x 5	1	12085N02	**50,276**
	3 x 56	16 x 5	1	12085N03	**45,974**
	4 x 48	20 x 5	1	12085N04	**43,091**
	5 x 44	20 x 5	1	12085N05	**40,223**
	6 x 40	20 x 5	1	12085N06	**37,289**
	8 x 36	20 x 7	1	12085N08	**37,289**
	10 x 32	20 x 7	1	12085N10	**37,289**
	12 x 28	20 x 7	1	12085N12	**37,289**
UNF	**1/4** x 28	20 x 7	1	120851/4	**34,133**
	5/16 x 24	25 x 9	1	120855/16	**38,033**
	3/8 x 24	30 x 11	1	120853/8	**46,872**
	7/16 x 20	30 x 11	1	120857/16	**46,872**
	1/2 x 20	38 x 10	1	120851/2	**54,433**
	9/16 x 18	38 x 10	1	120859/16	**59,389**
	5/8 x 18	45 x 14	1	120855/8	**78,256**
	3/4 x 16	45 x 14	1	120853/4	**82,140**
	7/8 x 14	55 x 16	1	120857/8	**110,016**
	1” x 12	55 x 16	1	120851X12	**113,745**
	***1”** x 14	55 x 16	1	120851X14	**136,054**
	1.1/8 x 12	65 x 18	1	120851.1/8	**172,052**
	1.1/4 x 12	65 x 18	1	120851.1/4	**172,052**
	1.3/8 x 12	65 x 18	1	120851.3/8	**172,052**
	1.1/2 x 12	65 x 18	1	1208561.1/2	**386,401**
	1.1/2 x 12	75 x 20	1	1208571.1/2	**386,401**

* Filettatura UNS / *UNS thread*

FILIERE TONDE IN HSS IMBOCCO CORRETTO, FILETTATURA SINISTRA AMERICANA UNF A PASSO FINE ANSI B1.1

Round dies, spiral point, unified coarse thread UNC

12086 HSS DIN 223 - EN 22568

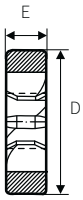
UNF

Sinistra
Left hand

HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

	Ø	DxE	pcs	cod.	€ cad/each
N°	**10** x 32	20 x 7	1	12086NR10	**63,853**
UNF	**1/4** x 28	20 x 7	1	120861/4	**52,222**
	5/16 x 24	25 x 9	1	120865/16	**61,917**
	3/8 x 24	30 x 11	1	120863/8	**73,450**
	7/16 x 20	30 x 11	1	120867/16	**73,450**
	1/2 x 20	38 x 10	1	120861/2	**116,064**
	9/16 x 18	38 x 10	1	120869/16	**116,064**
	5/8 x 18	45 x 14	1	120865/8	**146,960**
	3/4 x 16	45 x 14	1	120863/4	**146,960**
	7/8 x 14	55 x 16	1	120867/8	**212,763**
	1” x 12	55 x 16	1	120861	**212,763**

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS, FILETTATURA AMERICANA UNEF A PASSO EXTRAFINE ANSI B1.1

Round dies, unified extrafine thread UNEF

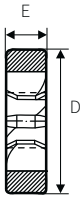
12079 HSS DIN 223 - EN 22568

UNEF

HV = 62÷63
AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

	Ø	DxE	pcs	cod.	€ cad/each
UNEF	**1/4** x 32	20 x 7	1	120791/4	**54,867**
	3/8 x 32	30 x 11	1	120793/8	**79,803**
	1/2 x 28	38 x 10	1	120791/2	**119,699**
	9/16 x 24	38 x 10	1	120799/16	**119,699**
	5/8 x 24	45 x 14	1	120795/8	**190,437**
	3/4 x 20	45 x 14	1	120793/4	**190,437**
	7/8 x 20	55 x 16	1	120797/8	**224,441**
	1” x 20	55 x 16	1	120791	**243,957**
	1.1/8 x 18	65 x 18	1	120791.1/8	**359,110**

Applicazioni
Applications

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

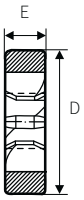
FILIERE TONDE IN HSS,
FILETTATURA METRICA PG PER TUBI DI CONDUZIONE ELETTRICA
Round dies, metric Pg thread for cables connections

12093 | HSS | **DIN 40434** | **Pg**

HV ≃ 62÷63
AISI M2
FORM B

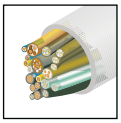
Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

	Ø	DxE	pcs	cod.	€ cad/each
Pg	**13,5** x 18	45 x 14	1	12093135	**126,849**
	21 x 16	65 x 18	1	1209321	**232,680**
	29 x 16	65 x 18	1	1209329	**232,680**
	36 x 16	90 x 22	1	1209336	**508,804**
	42 x 16	105 x 22	1	1209342	**643,761**
	48 x 16	105 x 22	1	1209348	**643,761**



Applicazioni
Applications

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

In esaurimento
To be discontinued

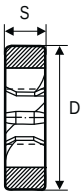
FILIERE TONDE AL CV,
FILETTATURA METRICA ISO, PASSO GROSSO
C.V. round dies, metric coarse pitch

12001 | C.V. | UNI 4535 ≃ DIN 223 | **M**

HRC = 60÷61

Metrica passo grosso
Metric coarse pitch





Confezione
Packaging



R ≤ 600 N/mm²

Applicazioni
Applications

- Metalli *Metals*
- Alluminio *Aluminum* (Alu)
- Leghe leggere *Light alloys* (Cu, Zn, Ni, Ms)
- Olio *Oil*

	Ø	DxS	pcs	cod.	€ cad/each
M	**2** x 0,4	25,4 x 9	5	12001202X04	**9,482**
	3 x 0,5	25,4 x 9	5	12001203X05	**6,748**
	4 x 0,7	25,4 x 9	5	12001204X07	**6,748**
	5 x 0,8	25,4 x 9	5	12001205X08	**5,714**
	6 x 1	25,4 x 9	5	12001206X1	**5,714**
	6 x 1	38,1 x 14	5	12001306X1	**5,856**
	7 x 1	25,4 x 9	5	12001207X1	**5,714**
	8 x 1,25	25,4 x 9	5	12001208X125	**5,890**
	8 x 1,25	38,1 x 14	5	12001308X125	**5,714**
	9 x 1,25	25,4 x 9	5	12001209X125	**5,714**
	10 x 1,5	25,4 x 9	5	12001210X15	**5,714**
	10 x 1,5	38,1 x 14	5	12001310X15	**8,179**
	11 x 1,5	38,1 x 14	5	12001311X15	**8,179**
	12 x 1,75	25,4 x 9	5	12001212X175	**5,714**
	12 x 1,75	38,1 x 14	5	12001312X175	**8,179**
	14 x 2	38,1 x 14	5	12001314X2	**8,179**
	16 x 2	38,1 x 14	5	12001316X2	**8,179**
	16 x 2	50,8 x 16	2	12001516X2	**9,457**
	18 x 2,5	38,1 x 14	5	12001318X25	**10,796**
	18 x 2,5	50,8 x 16	2	12001518X25	**15,490**
	20 x 2,5	38,1 x 14	5	12001320X25	**10,796**
	20 x 2,5	50,8 x 16	2	12001520X25	**15,984**
	22 x 2,5	50,8 x 16	2	12001522X25	**17,261**
	24 x 3	50,8 x 16	2	12001524X3	**17,566**
	27 x 3	63,5 x 19	1	12001627X3	**49,708**
	30 x 3,5	63,5 x 19	1	12001630X35	**49,708**
	33 x 3,5	63,5 x 19	1	12001633X35	**59,657**
	36 x 4	63,5 x 19	1	12001636X4	**59,657**

368  15032

369  15030

Art. 12002 Self
Disponibile su richiesta
On demand

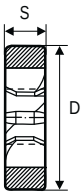
FILIERE TONDE AL CV,
FILETTATURA METRICA ISO, PASSO FINE
C.V. round dies, metric fine

12005 | C.V. | UNI 4535 ≃ DIN 223 | **MF**

HRC = 60÷61

Metrica passo fine
Metric fine





Confezione
Packaging



R ≤ 600 N/mm²

Applicazioni
Applications

- Metalli *Metals*
- Alluminio *Aluminum* (Alu)
- Leghe leggere *Light alloys* (Cu, Zn, Ni, Ms)
- Olio *Oil*

	Ø	DxS	pcs	cod.	€ cad/each
M	**6** x 0,75	25,4 x 9	5	12005206X075	**6,899**
	7 x 0,75	25,4 x 9	5	12005207X075	**6,899**
	8 x 0,75	25,4 x 9	5	12005208X075	**6,899**
	8 x 1	25,4 x 9	5	12005208X1	**6,899**
	9 x 0,75	25,4 x 9	5	12005209X075	**6,899**
	9 x 1	25,4 x 9	5	12005209X1	**6,899**
	10 x 1,25	25,4 x 9	5	12005210X125	**6,899**
	12 x 1,5	25,4 x 9	5	12005212X15	**6,899**
	10 x 0,75	38,1 x 14	5	12005310X075	**10,315**
	10 x 1	38,1 x 14	5	12005310X1	**10,315**
	10 x 1,25	38,1 x 14	5	12005310X125	**10,315**
	11 x 0,75	38,1 x 14	5	12005311X075	**10,315**
	11 x 1	38,1 x 14	5	12005311X1	**10,315**
	11 x 1,25	38,1 x 14	5	12005311X125	**10,315**
	12 x 0,75	38,1 x 14	5	12005312X075	**10,315**
	12 x 1	38,1 x 14	5	12005312X1	**10,315**
	12 x 1,25	38,1 x 14	5	12005312X125	**10,315**
	12 x 1,5	38,1 x 14	5	12005312X15	**10,315**
	14 x 1	38,1 x 14	5	12005314X1	**10,315**
	14 x 1,25	38,1 x 14	5	12005314X125	**10,315**
	14 x 1,5	38,1 x 14	5	12005314X15	**10,315**
	16 x 1	38,1 x 14	5	12005316X1	**10,315**
	16 x 1,5	38,1 x 14	5	12005316X15	**10,315**
	18 x 1,5	38,1 x 14	5	12005318X15	**10,315**
	18 x 2	38,1 x 14	5	12005318X2	**10,315**
	18 x 1,5	50,8 x 16	2	12005518X15	**20,243**
	18 x 2	50,8 x 16	2	12005518X2	**20,243**
	20 x 1,5	50,8 x 16	2	12005520X15	**20,816**
	20 x 2	50,8 x 16	2	12005520X2	**20,816**
	22 x 1,5	50,8 x 16	2	12005522X15	**21,393**
	22 x 2	50,8 x 16	2	12005522X2	**21,393**
	24 x 1,5	50,8 x 16	2	12005524X15	**21,696**
	24 x 2	50,8 x 16	2	12005524X2	**21,696**
	27 x 1,5	63,5 x 19	1	12005627X15	**48,769**
	27 x 2	63,5 x 19	1	12005627X2	**48,769**
	30 x 1,5	63,5 x 19	1	12005630X15	**48,769**
	30 x 2	63,5 x 19	1	12005630X2	**48,769**
	30 x 3	63,5 x 19	1	12005630X3	**48,769**

FILIERE TONDE AL CV,
FILETTATURA GAS CILINDRICA PER TUBI BSP
Round dies, cylindrical BSP thread

12015 C.V. ≃ DIN 223 (EN 24231)

BSP (GAS)



	Ø	DxS	pcs	cod.	€ cad/each
G	1/8 x 28	38,1 x 14	5	1201531/8	8,743
	1/4 x 19	38,1 x 14	5	1201531/4	8,743
	3/8 x 19	38,1 x 14	5	1201533/8	8,743
	3/8 x 19	50,8 x 16	2	1201553/8	18,446
	1/2 x 14	50,8 x 16	2	1201551/2	18,446
	3/4 x 14	50,8 x 16	2	1201553/4	18,446
	1" x 11	63,5 x 19	1	1201561	39,996
	1.1/4 x 11	75 x 20	1	1201571.1/4	76,158
	1.1/2 x 11	75 x 20	1	1201571.1/2	76,158
	2" x 11	105 x 22	1	1201512	230,000

R ≤ 600 N/mm²

Applicazioni
Applications

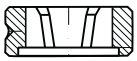
Metalli *Metals* | Alluminio *Aluminum* | Leghe leggere *Light alloys* | Olio *Oil*

FILIERE TONDE AL CV,
FILETTATURA GAS CONICA PER TUBI BSPT (CON 1:16)
Round dies, BSPT taper thread (taper 1:16)

12017 C.V. ≃ DIN 223 (EN 24230)

BSPT - Conica





BSPT
Conicità 1:16
Taper 1:16

	Ø	DxS	pcs	cod.	€ cad/each
Rc	1/8 x 28	30 x 11	1	1201731/8	32,918
	1/4 x 19	38 x 14	1	1201731/4	32,918
	3/8 x 19	45 x 18	1	1201743/8	32,918
	1/2 x 14	45 x 18	1	1201741/2	59,312
	3/4 x 14	55 x 22	1	1201753/4	59,312
	1" x 11	65 x 25	1	1201761	72,585
	1.1/4 x 11	75 x 30	1	1201771.1/4	175,914
	1.1/2 x 11	90 x 27	1	1201791.1/2	175,914
	2" x 11	105 x 28	1	1201712	364,385

R ≤ 600 N/mm²

Applicazioni
Applications

Metalli *Metals* | Alluminio *Aluminum* | Leghe leggere *Light alloys* | Olio *Oil*

FILIERE TONDE AL CV,
FILETTATURA INGLESE WHITWORTH A PASSO GROSSO BSW
Round dies, Whitworth thread

12010 C.V. ≃ DIN 223 (EN 22568) BSW



	Ø	DxS	pcs	cod.	€ cad/each
BSW	1/8 x 40	25,4 x 9	5	1201021/8	8,250
	5/32 x 32	25,4 x 9	5	1201025/32	7,875
	3/16 x 24	25,4 x 9	5	1201023/16	7,875
	1/4 x 20	25,4 x 9	5	1201021/4	8,250
	5/16 x 18	25,4 x 9	5	1201025/16	8,250
	3/8 x 16	38,1 x 14	5	1201033/8	9,482
	7/16 x 14	38,1 x 14	5	1201037/16	9,482
	1/2 x 12	38,1 x 14	5	1201031/2	9,482
	9/16 x 12	38,1 x 14	5	1201039/16	9,482
	5/8 x 11	50,8 x 16	2	1201055/8	17,403
	3/4 x 10	50,8 x 16	2	1201053/4	17,403
	7/8 x 9	50,8 x 16	2	1201057/8	21,305
	1" x 8	50,8 x 16	2	1201051	21,305
	1.1/8 x 7	63,5 x 19	1	1201061.1/8	51,010
	1.1/4 x 7	63,5 x 19	1	1201061.1/4	51,010
	1.3/8 x 6	63,5 x 19	1	1201061.3/8	51,010
	1.1/2 x 6	63,5 x 19	1	1201061.1/2	51,010
	1.3/4 x 5	90 x 36	1	1201091.3/4	220,842
	2" x 4,5	90 x 36	1	1201092	220,842

R ≤ 600 N/mm²

Applicazioni
Applications

Metalli *Metals* · Alluminio *Aluminum* · Leghe leggere *Light alloys* · Olio *Oil*

FILIERE TONDE AL CV,
FILETTATURA INGLESE WHITWORTH A PASSO FINE BSF
2 pcs hand taps, british standard fine

12012 C.V. ≃ DIN 223 (EN 22568) BSF



	Ø	DxS	pcs	cod.	€ cad/each
BSF	3/16 x 32	25,4 x 9	5	1201223/16	8,250
	1/4 x 26	25,4 x 9	5	1201221/4	8,250
	5/16 x 22	25,4 x 9	5	1201225/16	8,250
	3/8 x 20	38,1 x 14	5	1201233/8	9,482
	7/16 x 18	38,1 x 14	5	1201237/16	9,482
	1/2 x 16	38,1 x 14	5	1201231/2	9,482
	9/16 x 16	38,1 x 14	5	1201239/16	9,482
	5/8 x 14	50,8 x 16	2	1201255/8	17,403
	3/4 x 12	50,8 x 16	2	1201253/4	17,403
	7/8 x 11	50,8 x 16	2	1201257/8	21,305
	1" x 10	50,8 x 16	2	1201251	21,305

R ≤ 600 N/mm²

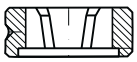
Applicazioni
Applications

Metalli *Metals* · Alluminio *Aluminum* · Leghe leggere *Light alloys* · Olio *Oil*

FILIERE TONDE AL CV,
FILETTATURA CONICA AMERICANA PER TUBI NPT ANSI B 2.1
Round dies, NPT taper thread

12032 C.V. ≃ DIN 223 (EN 22568)

NPT - Conica



NPT
Conicità 1:16
Taper 1:16



	Ø	DxS	pcs	cod.	€ cad/each
NPT	1/8 x 27	30 x 11	1	1203231/8	32,918
	1/4 x 18	38 x 14	1	1203231/4	32,918
	3/8 x 18	45 x 18	1	1203243/8	32,918
	1/2 x 14	45 x 18	1	1203241/2	59,312
	3/4 x 14	55 x 22	1	1203253/4	59,312
	1" x 11-1/2	65 x 25	1	1203261	72,512
	1.1/4 x 11-1/2	75 x 26	1	1203271.1/4	123,362
	1.1/2 x 11-1/2	90 x 27	1	1203291.1/2	123,362
	2" x 11-1/2	105 x 28	1	1203212	436,347

R ≤ 600 N/mm²

Applicazioni
Applications

Metalli *Metals* · Alluminio *Aluminum* · Leghe leggere *Light alloys* · Olio *Oil*

FILIERE TONDE AL CV,
FILETTATURA AMERICANA A PASSO GROSSO UNC
Round dies, UNC coarse thread

12020 C.V. ≃ DIN 223 (EN 22568)

UNC



	Ø	DxS	pcs	cod.	€ cad/each
N°	5 x 40	25,4 x 9	5	12020N05	7,720
	6 x 32	25,4 x 9	5	12020N06	7,720
	8 x 32	25,4 x 9	5	12020N08	7,720
	10 x 24	25,4 x 9	5	12020N10	7,720
	12 x 24	25,4 x 9	5	12020N12	7,720
UNC	1/4 x 20	25,4 x 9	5	1202021/4	7,720
	5/16 x 18	25,4 x 9	5	1202025/16	7,720
	3/8 x 16	38,1 x 14	5	1202033/8	10,715
	7/16 x 14	38,1 x 14	5	1202037/16	10,715
	1/2 x 13	38,1 x 14	5	1202031/2	10,715
	9/16 x 12	38,1 x 14	5	1202039/16	10,715
	5/8 x 11	50,8 x 16	2	1202055/8	23,470
	3/4 x 10	50,8 x 16	2	1202053/4	23,470
	7/8 x 9	50,8 x 16	2	1202057/8	24,772
	1" x 8	50,8 x 16	2	1202051	24,772
	1.1/8 x 7	63,5 x 19	1	1202061.1/8	66,945
	1.1/4 x 7	63,5 x 19	1	1202061.1/4	66,945
	1.3/8 x 6	63,5 x 19	1	1202061.3/8	66,945
	1.1/2 x 6	63,5 x 19	1	1202061.1/2	66,945

R ≤ 600 N/mm²

Applicazioni
Applications

Metalli *Metals* · Alluminio *Aluminum* · Leghe leggere *Light alloys* · Olio *Oil*

FILIERE TONDE AL CV,
FILETTATURA AMERICANA A PASSO FINE UNF
Round dies, UNC coarse thread

12025 | C.V. | ≃ **DIN 223 (EN 22568)** | **UNF**



	Ø	DxS	pcs	cod.	€ cad/each
N°	**5** x 44	25,4 x 9	5	12025N05	**8,109**
	6 x 40	25,4 x 9	5	12025N06	**8,109**
	8 x 36	25,4 x 9	5	12025N08	**8,109**
	10 x 32	25,4 x 9	5	12025N10	**8,109**
	12 x 28	25,4 x 9	5	12025N12	**8,109**
UNF	**1/4** x 28	25,4 x 9	5	1202521/4	**8,109**
	5/16 x 24	25,4 x 9	5	1202525/16	**8,109**
	3/8 x 24	38,1 x 14	5	1202533/8	**11,500**
	7/16 x 20	38,1 x 14	5	1202537/16	**11,500**
	1/2 x 20	38,1 x 14	5	1202531/2	**11,500**
	9/16 x 18	38,1 x 14	5	1202539/16	**11,500**
	5/8 x 18	50,8 x 16	2	1202555/8	**24,889**
	3/4 x 16	50,8 x 16	2	1202553/4	**24,889**
	7/8 x 14	50,8 x 16	2	1202557/8	**26,271**
	1” x 12	50,8 x 16	2	1202551	**26,271**
	1.1/8 x 12	63,5 x 19	1	1202561.1/8	**69,328**
	1.1/4 x 12	63,5 x 19	1	1202561.1/4	**69,328**
	1.3/8 x 12	63,5 x 19	1	1202561.3/8	**69,328**
	1.1/2 x 12	63,5 x 19	1	1202561.1/2	**69,328**

R ≤ 600 N/mm²

Applicazioni
Applications

Metalli *Metals*

Alluminio *Aluminum*

Leghe leggere *Light alloys*

Olio *Oil*


KRINO
No.2 M4-12



ACCESSORI PER UTENSILI A FILETTARE

THREADING TOOLS ACCESSORIES

15001 DIN 1814

Lega Leggera
Zinc die-cast



Gr. N.	M	Per maschi / *for taps* BSW-UNC-UNF	BSP-NPT	L	cod.	€ cad/each
0	1 ÷ 8	1/16 ÷ 1/4		130	1500100	**12,086**
1	1 ÷ 10	1/16 ÷ 3/8	1/8	180	1500101	**12,973**
1.1/2	1 ÷ 12	1/16 ÷ 1/2	1/8	180	1500101.1/2	**14,954**
2	4 ÷ 12	5/32 ÷ 1/2	1/8	280	1500102	**20,875**
3	5 ÷ 20	7/32 ÷ 3/4	1/8 ÷ 1/2	380	1500103	**32,152**
4	11 ÷ 27	7/16 ÷ 1"	1/4 ÷ 3/4	500	1500104	**50,771**
5	13 ÷ 32	1/2 ÷ 1.1/4	1/4 ÷ 1"	700	1500105	**104,358**
***6**	18 ÷ 42	3/4 ÷ 1.1/2	1/2 ÷ 1.1/4	780	1500106	**228,169**
***7**	25 ÷ 52	1" ÷ 2.1/8	3/4 ÷ 2.1/4	800	1500107	**248,196**
***8**	25 ÷ 64	1" ÷ 2:1/2	3/4 ÷ 3"	1200	1500108	**557,031**

* corpo in acciaio
* *steel*

Art. 15002 Self
Disponibile su richiesta
On demand

15003 DIN 1814

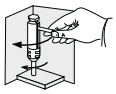
Acciaio
Steel



Gr. N.	M	Per maschi / *for taps* BSW-UNC-UNF	BSP-NPT	L	cod.	€ cad/each
0	1 ÷ 8	1/16 ÷ 1/4		170	1500300	**19,740**
1	1 ÷ 10	1/16 ÷ 3/8	1/8	200	1500301	**21,149**
1.1/2	1 ÷ 12	1/16 ÷ 1/2	1/8	200	1500301.1/2	**23,977**
2	4 ÷ 12	5/32 ÷ 1/2	1/8	260	1500302	**31,031**
3	5 ÷ 20	7/32 ÷ 3/4	1/8 ÷ 1/2	345	1500303	**50,771**
4	11 ÷ 27	7/16 ÷ 1"	1/4 ÷ 3/4	430	1500304	**81,789**
5	13 ÷ 32	1/2 ÷ 1.1/4	1/4 ÷ 1"	770	1500305	**129,743**
6	18 ÷ 42	3/4 ÷ 1.1/2	1/2 ÷ 1.1/4	870	1500306	**241,207**
7	25 ÷ 52	1" ÷ 2.1/8	3/4 ÷ 2.1/4	1000	1500307	**258,157**
8	25 ÷ 64	1" ÷ 2:1/2	3/4 ÷ 3"	1200	1500308	**557,031**

15010

Serie corta
Short serie



Acciaio
Steel

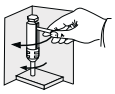


Gr. N.	Per maschi / *for taps* M	Per maschi / *for taps* BSW	L	pcs.	cod.	€ cad/each
1	3 ÷ 10	1/8 ÷ 3/8	85	1	1501001	**18,931**
2	5 ÷ 12	7/32 ÷ 1/2	100	1	1501002	**22,804**

Art. 15002 Self
Disponibile su richiesta
On demand

15011

Serie lunga
Long serie



Acciaio
Steel



Gr. N.	Per maschi / *for taps* M	Per maschi / *for taps* BSW	L	pcs.	cod.	€ cad/each
1	3 ÷ 10	1/8 ÷ 3/8	250	1	1501101	**27,133**
2	5 ÷ 12	7/32 ÷ 1/2	300	1	1501102	**34,148**

Griffe per *Jaws for*	cod.	€ cad/each
1501001 - 1501101	1501110	**1,970**
1501002 - 1501102	1501112	**2,464**

GIRAMASCHI A MANDRINO TIPO GOODEL
Goodel tap holder without ratchet

15005

Serie corta
Short serie



Gr. N.	Per maschi / *for taps* M	Per maschi / *for taps* BSW-	L	pcs.	cod.	€ cad/each
1	3 ÷ 5	1/8 ÷ 3/16	62	1	1500501	**8,266**
2	6 ÷ 8	1/4 ÷ 3/8	78	1	1500502	**10,509**
3	9 ÷ 10	3/8	102	1	1500503	**14,003**
4	10 ÷ 12	3/8 ÷ 1/2	102	1	1500504	**20,588**

Art. 15007 Self
Disponibile su richiesta
On demand

15006

Serie lunga
Long serie



Gr. N.	Per maschi / *for taps* M	Per maschi / *for taps* BSW-	L	pcs.	cod.	€ cad/each
1	3 ÷ 5	1/8 ÷ 3/16	150	1	1500601	**14,447**
2	6 ÷ 8	1/4 ÷ 3/8	150	1	1500602	**17,210**
3	9 ÷ 10	3/8	150	1	1500603	**23,624**
4	10 ÷ 12	3/8 ÷ 1/2	150	1	1500604	**33,848**

Art. 15007 Self
Disponibile su richiesta
On demand

GIRAMASCHI FISSI A SFERA
Ball tap wrenches

15013



Gr. N.	Per maschi / *for taps* M	L	cod.	€ cad/each
0	1 ÷ 4	200	1501300	**15,215**
1	3,5 ÷ 8	200	1501301	**15,215**
3	5 ÷ 12	200	1501303	**28,200**
4	10 ÷ 16	200	1501304	**37,224**
5	12 ÷ 20	200	1501305	**44,174**
6	18 ÷ 27	200	1501306	**87,185**

PROLUNGA PER MASCHI
Tap extension

10098

DIN 377



Quadro *Square* mm	L	Per maschi *for taps* DIN 352	cod.	€ cad/each
2.1	60	M 1-2.6	10098021	**7,757**
2.4	70		10098024	**7,757**
2.7	80	M 3	10098027	**7,757**
3.0	90	M 3.5	10098030	**7,757**
3.4	95	M 4	10098034	**7,757**
3.8	100		10098038	**9,296**
4.3	105		10098043	**11,174**
4.9	110	M 4.5-8	10098049	**8,696**
5.5	115	M 9-10	10098055	**9,934**
6.2	120	M 11	10098062	**10,873**
7.0	125	M 12	10098070	**13,352**
8.0	125		10098080	**16,766**
9.0	130	M 14-16	10098090	**18,304**

Quadro *Square* mm	L	Per maschi *for taps* DIN 352	cod.	€ cad/each
10.0	140		10098100	**24,224**
11.0	150	M 18	10098110	**29,506**
12.0	155	M 20	10098120	**38,503**
13.0	165		10098130	**43,443**
14.5	175	M 22-24	10098145	**52,764**
16.0	180	M 27	10098160	**55,856**
18.0	200	M 30	10098180	**65,178**
20.0	220	M 33	10098200	**83,810**
22.0	220	M 36	10098220	**118,452**
24.0	235	M39-42	10098240	**152,299**
26.0	250		10098260	**194,608**
29.0	265	M45-48	10098290	**229,864**
32.0	285	M52	10098320	**322,943**

15037

DIN 225 (EN 22568) ACCIAIO
Steel

Per filiere HSS e HSS-CO
For HSS and HSS-CO round dies



Gr.	M	BSW-BSP	L	pcs.	cod.	€ cad/each
16 x 5	M 1 ÷ 2,6	W 1/16 ÷ 3/32	160	1	1503716X5	**16,923**
20 x 5	M 3 ÷ 4	W 1/8 ÷ 5/32	190	1	1503720X5	**20,313**
20 x 7	M 4,5 ÷ 6	W 3/16 ÷ 1/4	190	1	1503720X7	**20,313**
25 x 9	M 7 ÷ 9	W 5/16 ÷	215	1	1503725X9	**23,690**
30 x 11	M 10 ÷ 11	W 3/8 ÷ 7/16	250	1	1503730X11	**23,690**
38 x 10	MF 12 ÷ 14	G 1/8 ÷ 1/4	310	1	1503738X10	**27,080**
38 x 14	M 12 ÷ 14	W 1/2 ÷ 9/16	310	1	1503738X14	**27,080**
45 x 14	MF 16 ÷ 20	G 3/8 ÷ 1/2	445	1	1503745X14	**35,542**
45 x 18	M 16 ÷ 20	W 5/8 ÷ 13/16	445	1	1503745X18	**35,542**
55 x 16	MF 22 ÷ 26	G 5/8 ÷ 3/4	495	1	1503755X16	**44,004**
55 x 22	M 22 ÷ 24	W 7/8 ÷ 1”	495	1	1503755X22	**44,004**
65 x 18	MF 27 ÷ 35	G 7/8 ÷ 1”	550	1	1503765X18	**79,533**
65 x 25	M 27 ÷ 36	W 1.1/8 ÷ 1”3/8	550	1	1503765X25	**79,533**
75 x 20	MF 38 ÷ 42	G 1.1/8 ÷ 1”1/4	735	1	1503775X20	**150,474**
75 x 30	M 39 ÷ 42	W 1.1/2 ÷ 1”5/8	735	1	1503775X30	**150,474**
90 x 22	MF 45 ÷ 52	G 1.3/8 ÷ 1”3/4	900	1	1503790X22	**280,922**
90 x 36	M 45 ÷ 52	W 1.3/4 ÷ 2”	900	1	1503790X36	**280,922**
105 x 22	MF 54 ÷ 65	G 2” ÷ 2”1/4	980	1	15037105X22	**428,775**
105 x 36	M 56 ÷ 64	W 2” ÷ 2”1/4	980	1	15037105X36	**428,775**
120 x 22	MF 64 ÷ 71	G 2.1/4 ÷ 2.3/4	960	1	15037120X22	**1.108,901**
120 x 36	M 64 ÷ 71	BSW 2.1/2 ÷ 2.3/4	960	1	15037120X36	**1.108,901**
130 x 25		G 3”	960	1	15037130X25	**1.542,604**
130 x 36			960	1	15037130X36	**1.542,604**
140 x 22			980	1	15037140X22	**1.936,879**
150 x 25		G 3.1/2	1000	1	15037150X25	**2.203,016**
160 x 25		G 4”	1000	1	15037160X25	**3.021,138**

15032

DIN 225 (EN 22568) ACCIAIO
Steel

Per filiere al CV
For CV round dies



Gr. N.	Ø *mm*	Ø *pollici / inches*	L *mm*	pcs.	cod.	€ cad/each
1	25,4 x 9,5	1” x 3/8	210	1	1503201	**24,681**
2	38,1 x 12,7	1”1/2 x 1/2	300	1	1503202	**29,961**
3	50,8 x 15,9	2” x 5/8	490	1	1503203	**45,829**
4	63,5 x 19	2.1/2 x 3/4	520	1	1503204	**78,230**
5	76,2 x 22	3” x 7/8	700	1	1503205	**149,940**
6	88,9 x 25,4	3.1/2 x 1”	950	1	1503206	**282,929**
7	101,6 x 25,4	4” x 1”	890	1	1503207	**852,700**

15035

DIN 225 (EN 22568) LEGA LEGGERA
Zinc die-cast

Per filiere HSS e HSS-CO
For HSS and HSS-CO round dies



Gr.	M	BSW-BSP	L	pcs.	cod.	€ cad/each
16 x 5	M 1 ÷ 2,6	W 1/16 ÷ 3/32	160	1	1503516X5	**8,318**
20 x 5	M 3 ÷ 4	W 1/8 ÷ 5/32	185	1	1503520X5	**8,749**
20 x 7	M 4,5 ÷ 6	W 3/16 ÷ 1/4	185	1	1503520X7	**8,749**
25 x 9	M 7 ÷ 9	W 5/16 ÷	215	1	1503525X9	**9,453**
30 x 11	M 10 ÷ 11	W 3/8 ÷ 7/16	265	1	1503530X11	**14,669**
38 x 10	MF 12 ÷ 14	G 1/8 ÷ 1/4	315	1	1503538X10	**16,220**
38 x 14	M 12 ÷ 14	W 1/2 ÷ 9/16	315	1	1503538X14	**16,220**
45 x 14	MF 16 ÷ 20	G 3/8 ÷ 1/2	450	1	1503545X14	**25,673**
45 x 18	M 16 ÷ 20	W 5/8 ÷ 13/16	450	1	1503545X18	**25,673**
55 x 16	MF 22 ÷ 26	G 5/8 ÷ 3/4	560	1	1503555X16	**39,492**
55 x 22	M 22 ÷ 24	W 7/8 ÷ 1"	560	1	1503555X22	**39,492**
65 x 18	MF 27 ÷ 35	G 7/8 ÷ 1"	630	1	1503565X18	**56,690**
65 x 25	M 27 ÷ 36	W 1"1/8 ÷ 1"3/8	630	1	1503565X25	**56,690**
***75 x 20**	MF 38 ÷ 42	G 1"1/8 ÷ 1"1/4	710	1	1503575X20	**135,377**
***75 x 30**	M 39 ÷ 42	W 1"1/2 ÷ 1"5/8	710	1	1503575X30	**145,127**
***90 x 22**	MF 45 ÷ 52	G 1"3/8 ÷ 1"3/4	920	1	1503590X22	**269,995**
***90 x 36**	M 45 ÷ 52	W 1"3/4 ÷ 2"	920	1	1503590X36	**269,995**

* acciaio
** steel*

15030

DIN 225 (EN 22568) LEGA LEGGERA
Zinc die-cast

Per filiere al CV
For CV round dies



Gr. N.	Ø *mm*	Ø *pollici / inches*	L *mm*	pcs.	cod.	€ cad/each
0	20,6 x 6,35	13/16 x 1/4	185	1	1503000	**9,453**
1	25,4 x 9,5	1" x 3/8	215	1	1503001	**9,869**
2/A	33,4 x 11,1	1.5/16 x 7/16	265	1	1503002/A	**17,210**
2	38,1 x 12,7	1.1/2 x 1/2	310	1	1503002	**17,210**
3	50,8 x 15,9	2" x 5/8	485	1	1503003	**35,960**
4	63,5 x 19	2.1/2 x 3/4	630	1	1503004	**55,700**
***5**	76,2 x 22	3" x 7/8	700	1	1503005	**135,377**
***6**	88,9 x 25,4	3.1/2 x 1"	940	1	1503006	**247,493**
***7**	101,6 x 25,4	4" x 1"	980	1	1503007	**775,775**

* acciaio
** steel*

Art. 15031 Inches Self
Disponibile su richiesta
On demand

ESPOSITORE MAGAZZINO GIRAUTENSILI
Tool holders display

17001



Art. 17001100
€ 692,105

40 pcs







15001	15005	15006	15010	15030
GR. 1 6 pcs	**GR. 1** 3 pcs	**GR. 1** 2 pcs	**GR. 1** 2 pcs	**Ø 25,4** 6 pcs
GR. 2 6 pcs	**GR. 2** 2 pcs	**GR. 2** 2 pcs	**GR. 2** 2 pcs	**Ø 38,1** 4 pcs
GR. 3 3 pcs				**Ø 50,8** 2 pcs



Art. 17001104
€ 994,205

51 pcs






15001	15010	15011	15035	
GR. 1 6 pcs	**GR. 1** 2 pcs	**GR. 1** 2 pcs	**16x5** 2 pcs	**38x14** 4 pcs
GR. 2 5 pcs	**GR. 2** 2 pcs	**GR. 2** 2 pcs	**20x5** 2 pcs	**45x14** 2 pcs
GR. 3 2 pcs			**20x7** 2 pcs	**45x18** 1 pc
GR. 4 1 pc			**25x9** 6 pcs	**55x16** 1 pc
			30x11 6 pcs	**55x22** 1 pc
			38x10 2 pcs	



Art. 17001108
€ 1.508,927

51 pcs






15001	15010	15011	15037	
GR. 1 6 pcs	**GR. 1** 2 pcs	**GR. 1** 2 pcs	**16x5** 2 pcs	**38x14** 4 pcs
GR. 2 5 pcs	**GR. 2** 2 pcs	**GR. 2** 2 pcs	**20x5** 2 pcs	**45x14** 2 pcs
GR. 3 2 pcs			**20x7** 2 pcs	**45x18** 1 pc
GR. 4 1 pc			**25x9** 6 pcs	**55x16** 1 pc
			30x11 6 pcs	**55x22** 1 pc
			38x10 2 pcs	

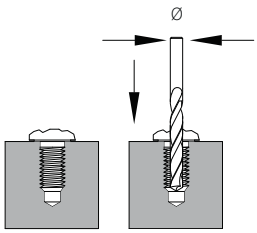
ESTRATTORI DI VITI E PRIGIONIERI
IN ACCIAIO LEGATO
Screw extractors

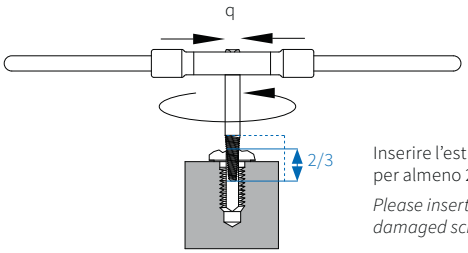
10065

DIN 225 (EN 22568) ACCIAIO
Steel



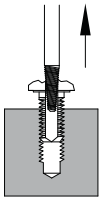
Gr. N.	viti *screws*	Ø	q	giramaschi n. *tap.wrench n.*	pcs.	cod.	€ cad/each
1	M 3 ÷ 6	3 ÷ 4	3	0-1-1.1/2	1	1006501	**1,724**
2	M 6 ÷ 8	4 ÷ 4,5	3,6	0-1-1.1/2	1	1006502	**1,724**
3	M 8 ÷ 11	5,5 ÷ 6	5,5	1-1.1/2	1	1006503	**2,031**
4	M 11 ÷ 14	6 ÷ 6,5	6,3	2-3-4	1	1006504	**2,465**
5	M 14 ÷ 18	9 ÷ 10	8,6	3-4-5	1	1006505	**3,263**
6	M 18 ÷ 25	12 ÷ 13	12	3-4-5-6	1	1006506	**4,540**
7	M 25 ÷ 35	14 ÷ 16	15	4-5-6	1	1006507	**9,072**
8	M 35 ÷ 50	20 ÷ 22	19	4-5-6	1	1006508	**12,485**





Inserire l'estrattore nella vite danneggiata per almeno 2/3 della sua parte utile

Please insert the screw extractor inside the damaged screw up to 2/3 of the working part



SERIE DI ESTRATTORI
IN ASTUCCIO DI PLASTICA
Screw extractors sets in plastic cases

10067



composizione description	pcs.	cod.	€ cad/each
5 pcs Ø 1÷5	1	10067101	**10,491**
6 pcs Ø 1÷6	1	10067102	**15,073**
8 pcs Ø 1÷8	1	10067103	**34,970**

CONTAFILETTI
PER FILETTI METRICI ISO 60° - WH 55°
Screw pitch gauge ISO 60°-Wh 55°

41003



composizione description	pcs.	cod.	€ cad/each
52 pcs M 0,25 ÷ 6 Wh 62 ÷ 4	1	410031251	**19,034**
12 pcs M 0,5 ÷ 1,75	1	410031261	**9,891**

ASSORTIMENTI A FILETTARE IN HSS

HSS THREADIND SETS

ASSORTIMENTI A FILETTARE IN HSS, FILETTATURA METRICA, IN ASTUCCI DI METALLO ED ABS

Threading sets, metric thread, in metal and plastic boxes

M

17020408 **17020414** **17020401** **17020409**



Abs



Abs



Abs

cod.	€ cad/each	Composizione *Description*
17020408 HSS-CO	198,279	
17020414 HSS-G TiN	281,344	DIN 352 - 3 pcs M 3 - 4 - 5 - 6 8 - 10 - 12
17020401 HSS-G	131,294	
Sinistra Left hand 17020409 HSS-G	194,254	

M

17020407 **17020415** **17020402** **17020410**



Metal



Metal



Metal

cod.	€ cad/each	Composizione *Description*
17020407 HSS-CO	250,526	DIN 352 - 3 pcs M 3 - 4 - 5 - 6 - 8 - 10 - 12
17020415 HSS-G TiN	321,523	 1.1/2
17020402 HSS-G	167,462	2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25
Sinistra Left hand 17020410 HSS-G	241,148	

M

17020404



Abs

cod.	€ cad/each	Composizione *Description*
17020404 HSS-G	89,531	DIN 352 - 1 pcs M 3 - 4 - 5 - 6 - 8 - 10 - 12  1.1/2 2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA, FILETTATURA METRICA, IN CASSETTA METALLICA

Hss threading sets for industry, metric thread, in metal boxes

17020513 — 17020501

M





Misure/*Dimensions*:
265x118x35 mm

cod.	€ cad/each	Composizione *Description*
17020513 HSS-G TiN	388,509	DIN 352 - 3 pcs M 3 - 4 - 5 - 6 - 8 - 10 - 12 Ø 25 1.1/2
17020501 HSS-G	214,358	25X9

17020514 — 17020500

M





Misure/*Dimensions*:
496x334x65 mm

cod.	€ cad/each	Composizione *Description*
17020514 HSS-G TiN	602,866	DIN 352 - 3 pcs DIN223 N° 1 - 2 20x5 - 20x7 - 25x9 - 30x11 - 38x14
17020500 HSS-G	368,418	M 3 - 4 - 5 - 6 - 8 - 10 - 12 Ø 2,5 - 3,3 - 4,2 - 5 - 6,8 - 8,5 - 10,25 N° 1

17020506 — 17020507

M





Misure/*Dimensions*:
496x334x65 mm

Sinistra
Left hand

cod.	€ cad/each	Composizione *Description*
17020506 HSS-CO	448,806	DIN 352 - 3 pcs DIN223 N° 1 - 2 20x5 - 20x7 - 25x9 - 30x11 - 38x14
17020507 HSS-G	488,986	M 3 - 4 - 5 - 6 - 8 - 10 - 12 Ø 2,5 - 3,3 - 4,2 - 5 - 6,8 - 8,5 - 10,25 N° 1

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA, FILETTATURA METRICA, IN CASSETTA METALLICA
Hss threading sets for industry, metric thread, in metal boxes

17020508 **17020518** **17020503** **17020509** M





Misure/*Dimensions*:
510x237x50 mm

Sinistra
Left hand

cod.	€ cad/each	Composizione *Description*	
17020508 HSS-CO	**1.058,360**	DIN 352 - 3 pcs	N° 1 - 3
17020518 HSS-G TiN	**1.312,912**	DIN 223	20x5 - 20x7 - 25x9 30x11 - 38x14 45x18
17020503 HSS-G	**836,977**	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20	N° 1 - N° 2
17020509 HSS-G	**1.098,554**		

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA, FILETTATURA METRICA, IN VALIGETTA DI LEGNO
Hss threading sets for industry, metric thread, in wood boxes

17020544 **17020504** **17020505** M



Valigetta in metallo
Metal box

cod.	€ cad/each	Composizione *Description*	
17020544 HSS-CO	**1.931,854**	DIN 352 - 3 pcs	N° 1 - 4
Misure/*Dimensions*: 540x338x87 mm		DIN 223	20x5 - 20x7 - 25x9 30x11 - 38x14 45x18 - 55x22
17020504 HSS-G	**1.600,943**	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24	
Misure/*Dimensions*: 540x338x87 mm			
17020505 HSS-G	**3.268,872**	DIN 352 - 3 pcs	N° 1 - 3 - 5
Misure/*Dimensions*: 885x380x90 mm		DIN 223	20x7 - 25x9 - 30x11 38x14 - 45x18 55x22 - 65x25
		M 5 - 6 - 8 - 10 - 12 14 - 16 - 18 - 20 22 - 24 - 27 - 30	

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA, FILETTATURA METRICA PASSO GROSSO E FINE, IN CASSETTA DI LEGNO

Hss threading sets for industry, metric coarse and fine thread, in wood box

17025513 **17025512** **17025511**

M+MF



Legno
Wood

cod.	€ cad/each	Composizione *Description*	
17025513 HSS-G	**796,767**	  M 3 pcs MF 2 pcs	 N° 1 - 3  25x9 38x14
		M 4x0,7 - 5x0,8 6x1 - 8x1 - 8x1,25 10x1,25 - 10x1,5 12x1,25 - 12x1,5 12x1,75 - 14x1,5 14x2	 N° 1
Misure/*Dimensions*: 583x300x55 mm			
17025512 HSS-G	**1.262,138**	  M 3 pcs MF 2 pcs	 N° 1 - 3  20x7 - 25x9 30x10 - 38x14 45x18
		M 3x0,5 - 4x0,7 5x0,8 - 6x1 - 7x1 8x1 - 8x1,25 10x1,25 - 10x1,5 12x1,25 - 12x1,5 12x1,75 - 14x1,25 14x1,5 - 14x2 16x1,5 - 16x2	 N° 1
Misure/*Dimensions*: 510x340x74 mm			
17025511 HSS-G FIAT HSS-G special for automotive 20 passi *20 thread*	**1.325,595**	M 3 pcs MF 2 pcs	N° 1 - 3  25x9 38x14
		M 2x0,4 - 3x0,5 4x0,7 - 5x0,8 - 6x1 7x1 - 8x1 - 8x1,25 10x1 - 10x1,25 10x1,5 - 12x1,25 12x1,5 - 12x1,75 14x1,25 - 14x1,5 14x2 - 16x1,5 16x2 - 18x1,5	 N° 1
Misure/*Dimensions*: 640x400x55 mm			

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA, FILETTATURA METRICA PASSO FINE, IN CASSETTA METALLICA

Hss threading sets for industry, metric fine thread, in metal box

17020524 **17020510** **17020511**

MF



Metallo
Metal

cod.	€ cad/each	Composizione *Description*	
17020524 HSS-G	**823,911**	 2 pcs	 N° 1 - 3  20x5 - 20x7 - 25x9 30x11 - 38x10 45x14
		MF 3x0,35 - 4x0,5 5x0,75 - 6x0,75 - 8x1 10x1,25 - 12x1,5 14x1,5 - 16x1,5 18x1,5 - 20x1,5	
Misure/*Dimensions*: 510x237x50 mm			
17020510 HSS-G	**1.473,674**	  2 pcs	 N° 1 - 3  20x7 - 25x9 30x11 - 38x10 45x14
		MF 6x0,75 - 8x0,75 8x1 - 10x1 - 12x1 12x1,5 - 14x1,25 14x1,5 - 16x1,5 18x1,5 - 20x1,5	
Misure/*Dimensions*: 510x237x50 mm			
17020511 HSS-G	**1.982,763**	  2 pcs	 N° 1 - 4  20x7 - 25x9 30x11 - 38x10 45x14 - 55x16
		MF 6x0,7 - 8x0,75 8x1 - 10x1-12x1 12x1,5 - 14x1,25 14x1,5 - 16x1,5 18x1,5 - 20x1,5 22x1,5 - 24x1,5	

ASSORTIMENTI A FILETTARE IN HSS PER GARAGE TIPO FIAT, FILETTATURA METRICA PASSO GROSSO E FINE, IN CASSETTA DI LEGNO

Hss threading sets for automotive, metric coarse and fine thread, in wood box

17012600 M+MF

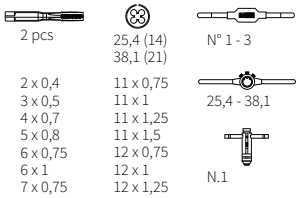


FIAT HSS

Confezione
Packaging



cod.	€ cad/each	Composizione *Description*
17012600 HSS-G	**1.086,801**	110 pcs 35 passi *35 pitch* Misure/*Dimensions*: 500x340x70 mm Kg. 7,9



2 x 0,4 · 3 x 0,5 · 4 x 0,7 · 5 x 0,8 · 6 x 0,75 · 6 x 1 · 7 x 0,75 · 7 x 1 · 8 x 0,75 · 8 x 1 · 8 x 1,25 · 9 x 0,75 · 9 x 1 · 9 x 1,25 · 10 x 0,75 · 10 x 1 · 10 x 1,25 · 10 x 1,5

11 x 0,75 · 11 x 1 · 11 x 1,25 · 11 x 1,5 · 12 x 0,75 · 12 x 1 · 12 x 1,25 · 12 x 1,5 · 12 x 1,75 · 14 x 1 · 14 x 1,25 · 14 x 1,5 · 14 x 2 · 16 x 1 · 16 x 1,5 · 16 x 2 · 18 x 1,5

Per generare e ravvivare i filetti di:
To make and renew threads of:

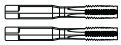
FIAT, ALFA ROMEO, LANCIA, VOLKSWAGEN, BMW, MERCEDES, FORD, OPEL G.M., PEUGEOT, RENAULT, VOLVO, CITROEN, TOYOTA, NISSAN, HONDA, ETC.

Art. 10097 Ricambio *Spare part*

Art. 12057 Ricambio *Spare part*

10097

HSS



2 pcs

	Ø	cod.	€ cad/each
M	2 x 0,4	1009702X04	7,070
	3 x 0,5	1009703X05	6,324
	4 x 0,7	1009704X07	6,324
	5 x 0,8	1009705X08	6,324
	6 x 0,75	1009706X075	6,324
	6 x 1	1009706X1	6,324
	7 x 0,75	1009707X075	7,615
	7 x 1	1009707X1	7,615
	8 x 0,75	1009708X075	9,337
	8 x 1	1009708X1	9,337
	8 x 1,25	1009708X125	9,337
	9 x 0,75	1009709X075	10,398
	9 x 1	1009709X1	10,398
	9 x 1,25	1009709X125	10,398
	10 x 0,75	1009710X075	11,387
	10 x 1	1009710X1	11,387
	10 x 1,25	1009710X125	11,387
	10 x 1,5	1009710X15	11,387
	11 x 0,75	1009711X075	15,963
	11 x 1	1009711X1	15,963
	11 x 1,25	1009711X125	15,963
	11 x 1,5	1009711X15	15,963
	12 x 0,75	1009712X075	16,824
	12 x 1	1009712X1	16,824
	12 x 1,25	1009712X125	16,824
	12 x 1,5	1009712X15	16,824
	12 x 1,75	1009712X175	16,824
	14 x 1	1009714X1	21,971
	14 x 1,25	1009714X125	21,971
	14 x 1,5	1009714X15	21,971
	14 x 2	1009714X2	21,971
	16 x 1	1009716X1	23,248
	16 x 1,5	1009716X15	23,248
	16 x 2	1009716X2	23,248
	18 x 1,5	1009718X15	32,743

12057

HSS



	Ø		cod.	€ cad/each
M	2 x 0,4	25,4x9	1205702X04	7,533
	3 x 0,5		1205703X05	7,533
	4 x 0,7		1205704X07	7,533
	5 x 0,8		1205705X08	7,533
	6 x 0,75		1205706X075	7,533
	6 x 1		1205706X1	7,533
	7 x 0,75		1205707X075	7,533
	7 x 1		1205707X1	7,533
	8 x 0,75		1205708X075	7,533
	8 x 1		1205708X1	7,533
	8 x 1,25		1205708X125	7,533
	9 x 0,75		1205709X075	7,533
	9 x 1		1205709X1	7,533
	9 x 1,25		1205709X125	7,533
	10 x 0,75	38,1x14	1205710X075	13,717
	10 x 1		1205710X1	13,717
	10 x 1,25		1205710X125	13,717
	10 x 1,5		1205710X15	13,717
	11 x 0,75		1205711X075	13,717
	11 x 1		1205711X1	13,717
	11 x 1,25		1205711X125	13,717
	11 x 1,5		1205711X15	13,717
	12 x 0,75		1205712X075	13,717
	12 x 1		1205712X1	13,717
	12 x 1,25		1205712X125	13,717
	12 x 1,5		1205712X15	13,717
	12 x 1,75		1205712X175	13,717
	14 x 1		1205714X1	13,717
	14 x 1,25		1205714X125	13,717
	14 x 1,5		1205714X15	13,717
	14 x 2		1205714X2	13,717
	16 x 1		1205716X1	13,717
	16 x 1,5		1205716X15	13,717
	16 x 2		1205716X2	13,717
	18 x 1,5		1205718X15	13,717

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA, FILETTATURA GAS PER TUBI, IN CASSETTA DI LEGNO

Hss threading sets for industry, BSP nad BSPT thread, in wood boxes

17025615 **17025614** **17025616** BSP

17025617 **17025618**



Legno
Wood

Valigetta in metallo
Metal box

Sinistra
Left hand

cod.	€ cad/each	Composizione *Description*		
17025615 HSS-G	**1.621,745**	Misure/*Dimensions*: 672x445x64 mm	2 pcs 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"	N° 1 - 3 - 5 30x11 - 38x10 - 45x14 - 55x16 65x18
17025614 HSS-G	**1.826,224**	Misure/*Dimensions*: 550x297x56 mm	2 pcs 1/8 - 1/4 - 3/8 - 1/2 5/8 - 3/4 - 7/8 - 1"	N° 1 - 3 - 5 30x11 - 38x10 - 45x14 - 55x16 65x18
17025616 HSS-G	**3.455,023**	Misure/*Dimensions*: 690x455x128 mm	2 pcs 1/4 - 3/8 - 1/2 3/4 - 1" - 1.1/4 - 1.1/2	N° 2 - 4 - 7 38x10 - 45x14 55x16 - 65x18 75x20 - 90x22
17025617 HSS-CO	**1.861,480**	Misure/*Dimensions*: 672x445x64 mm	2 pcs 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"	N° 1 - 3 - 5 30x11 - 38x10 - 45x14 - 55x16 65x18
17025618 HSS-G	**2.397,363**	Misure/*Dimensions*: 672x445x64 mm	2 pcs 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"	N° 1 - 3 - 5 30x11 - 38x10 - 45x14 - 55x16 65x18

17025628 **17025629** **BSPT**



Legno
Wood

cod.	€ cad/each	Composizione *Description*		
17025628 HSS-G	**1.861,480**	Misure/*Dimensions*: 672x445x64 mm	1 pcs 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"	N° 1 - 3 - 5 30x11 - 38x10 - 45x14 - 55x16 65x18
17025629 HSS-G	**4.512,683**	Misure/*Dimensions*: 690x445x128 mm	1 pcs 1/4 - 3/8 - 1/2 3/4 - 1" - 1.1/4 - 1.1/2	N° 2 - 4 - 7 38x14 - 45x18 55x22 - 65x25 75x30 - 90x36

ASSORTIMENTI A FILETTARE IN HSS PER L'INDUSTRIA, FILETTATURA GAS CONICA PER TUBI, IN CASSETTA DI LEGNO

Hss threading sets for industry, NPT thread, in wood boxes

17025635 **17020636**

NPT



Legno
Wood

cod.	€ cad/each	Composizione *Description*	
17025635 HSS-G	**1.861,480**	1 pcs 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1”	N° 1 - 3 - 5 30x11 - 38x14 - 45x18 - 55x22 65x25
Misure/*Dimensions*: 672x445x64 mm			
17020636 HSS-G	**6.809,713**	1 pcs 1/8 - 1/4 - 3/8 - 1/2 3/4 - 1” - 1.1/4 1.1/2 - 2”	N° 2 - 4 - 7 30x11 - 38x14 45x14 - 45x18 55x22 - 65x25 75x30 - 90x36 105x36
Misure/*Dimensions*: 973x397x162 mm			

ASSORTIMENTI A FILETTARE IN HSS PER GARAGE ED INDUSTRIA, FILETTATURA WHITWORTH PASSO GROSSO , IN CASSETTA DI LEGNO

Hss threading sets for garages and industry, Whitworth thread, in wood boxes

17025619 **17025620**

17025621 **17025622**

BSW



Legno
Wood

Valigetta in metallo
Metal box

cod.	€ cad/each	Composizione *Description*	
17025619 HSS-G	**958,947**	3 pcs 1/8 - 3/16 - 1/4 5/16 - 3/8 - 7/16 1/2	N° 1 - 2 20x5 - 20x7 - 25x9 30x11 - 38x14 N° 1
17025620 HSS-G	**1.085,862**	3 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4	N° 1 - 3 20x7 - 25x9 30x11 - 38x14 45x18
Misure/*Dimensions*: 610x413x55 mm			
17025621 HSS-G	**1.621,745**	3 pcs 1/4 - 5/16 - 3/8 7/16 - 1/2 - 5/8 3/4 - 7/8 - 1”	N° 1 - 4 20x7 - 25x9 - 30x11 38x14 - 45x18 55x22
Misure/*Dimensions*: 683x406x58 mm			
17025622 HSS-G	**4.463,321**	3 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1” - 1.1/8 - 1.1/4 1.3/8 - 1.1/2	N° 1 - 3 - 6 20x7 - 25x9 30x11 - 38x14 45x18 - 55x22 65x25
Misure/*Dimensions*: 680x408x57 mm			

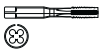
ASSORTIMENTI A FILETTARE IN HSS PER GARAGE ED INDUSTRIA, FILETTATURA WHITWORTH , IN CASSETTA DI LEGNO

Hss threading sets for garages and industry, Whitworth thread, in wood boxes

17025630 **17025631** BSF

Legno
Wood

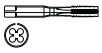
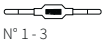


cod.	€ cad/each	Composizione *Description*	
17025630 HSS-G	**1.029,459**	 2 pcs 1/4 - 5/16 - 3/8 7/16 - 1/2 - 5/8 - 3/4	 N° 1 - 3  20x7 - 25x9 30x11 - 38x10 45x14
Valigetta in metallo *Metal box* **17025631** HSS-G Misure/*Dimensions*: 683x406x93 mm	**1.692,256**	 2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1"	 N° 1 - 4  20x7 - 25x9 30x11 - 38x10 45x14 - 55x22

17020523 **BSW+BSF**

Metallo
Metal



cod.	€ cad/each	Composizione *Description*	
Valigetta in metallo *Metal box* **17020523** HSS-G	**2.217,210**	 BSW 3 pcs BSF 2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4	 N° 1 - 3  20x7 - 25x9 30x11 - 38x14 45x18

ASSORTIMENTI A FILETTARE IN HSS PER GARAGE ED INDUSTRIA, FILETTATURA UNC E UNF, IN CASSETTA DI LEGNO

Hss threading sets for garages and industry, UNC and UNF thread, in wood boxes

17020528 **17020525**

17020526 **17020527**

UNC



Legno
Wood

Valigetta in metallo
Metal box

cod.	€ cad/each	Composizione *Description*	
17020528 HSS-G	**777,030**	3 pcs 1/4 - 5/16 - 3/8 7/16 - 1/2	N° 1 - 2 20x7 - 25x9 30x11 - 38x10
Misure/*Dimensions*: 394x210x45 mm			
17020525 HSS-G	**1.071,764**	2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4	N° 1 - 3 20x7 - 25x9 30x11 - 38x14 45x18
Misure/*Dimensions*: 595x400x52 mm			
17020526 HSS-G	**1.848,792**	3 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1"	N° 1 - 2 20x7 - 25x9 30x11 - 38x10
Misure/*Dimensions*: 683x406x58 mm			
17020527 HSS-G	**5.224,841**	3 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2	N° 1 - 3 - 6 20x7 - 25x9 30x11 - 38x14 45x18 - 55x22 65x25
Misure/*Dimensions*: 680x408x57 mm			

17020530 **17020531** **17020532**

UNF



cod.	€ cad/each	Composizione *Description*	
17020530 HSS-G	**1.044,971**	2 pcs 1/4 - 5/16 - 3/8 7/16 - 1/2 - 5/8 3/4	N° 1 - 3 20x7 - 25x9 30x11 - 38x10 45x14
Misure/*Dimensions*: 595x400x52 mm			
17020531 HSS-G	**1.795,196**	2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1"	N° 1 - 4 20x7 - 25x9 30x11 - 38x10 45x14 - 55X16
Misure/*Dimensions*: 683x406x58 mm			
17020532 HSS-G	**4.822,932**	2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4 - 7/8 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2	N° 1 - 3 - 6 20x7 - 25x9 - 30x11 38x14 - 45x14 55x16 - 65x18
Misure/*Dimensions*: 680x408x57 mm			

17020533

UNC+UNF



cod.	€ cad/each	Composizione *Description*	
17020533 HSS-G	**2.217,210**	UNC 3 pcs UNF 2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 5/8 - 3/4	N° 1 - 3 20x7 - 25x9 30x11 - 38x14 45x18
Misure/*Dimensions*: 690x425x93 mm			

ASSORTIMENTI A FILETTARE AL CROMO VANADIO (CV)

CHROME VANADIUM (CV) THREADING SETS

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA METRICA, IN ASTUCCI DI METALLO E ABS

CV threading sets, coarse metric thread, in metal and plastic boxes

09030505 **09030504** M+MF



cod.	€ cad/each	Composizione *Description*	
09030505 C.V.	**94,080**	1 pcs 25.4 M 3x0,5 - 4x0,7 5x0,8 - 6x1 - 7x1 8x1 - 8x1,25 10x1,25 - 10x1,5 12x1,5 - 12x1,75	N° 1.1/2 25,4 1 contafiletti *1 pitch gauge* 2,5 - 3,3 - 4,2 - 5 - 6,8
30 pcs 11 passi 11 threads			
09030504 C.V.	**76,440**	3 pcs 25.4 M 3x0,5 - 4x0,7 5x0,8 - 6x1 - 7x1 8x1 - 8x1,25 10x1,25 - 10x1,5 12x1,5 - 12x1,75	N° 1.1/2 25,4 1 contafiletti *1 pitch gauge*
30 pcs 11 passi 11 threads			

17005401 **17005402** M



Astucci metallo
Metal case



Astucci metallo
Metal case

cod.	€ cad/each	Composizione *Description*	
17005401 C.V.	**57,107**	3 pcs M 3 - 4 - 5 - 6 8 - 10 - 12	
21 pcs			
17005402 C.V.	**88,842**	3 pcs M 3 - 4 - 5 - 6 8 - 10 - 12	N°1.1/2 2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25
29 pcs			

17005404 M



Abs

cod.	€ cad/each	Composizione *Description*	
17005404 C.V.	**51,051**	1 pcs M 3 - 4 - 5 - 6 8 - 10 - 12	N°1.1/2 2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA METRICA, IN CASSETTA DI LEGNO

CV threading sets, metric thread, in wood box

17012530 **17012531** M



cod.	€ cad/each	Composizione *Description*	
17012530 C.V. 6 passi *6 threads* Misure/*Dimensions*: 320x218x38 mm	175,502	3 pcs 25.4 M 3 - 4 - 5 - 6 - 8 - 10	N° 1 25,4
17012531 C.V. 8 passi *8 threads* Misure/*Dimensions*: 432x227x50 mm	207,657	3 pcs 25.4 M 3 - 4 - 5 - 6 7 - 8 - 9 - 10	N° 1 25,4

17012532 **17012533** **17012543** M+MF



cod.	€ cad/each	Composizione *Description*	
17012532 C.V. 7 passi *7 threads* Misure/*Dimensions*: 320x218x38 mm	211,670	3 pcs 25.4 M 3 - 4 - 5 - 6 - 8 - 10 - 12	N° 1.1/2 25,4
17012533 C.V. 10 passi *10 threads* Misure/*Dimensions*: 517x305x50 mm	308,134	3 pcs 25,4 (7) 38,1 (3) M 3 - 4 - 5 - 6 7 - 8 - 9 - 10 - 11 - 12	N° 1 - 2 25,4 - 38,1
17012543 C.V. 12 passi *12 threads* Misure/*Dimensions*: 528x312x48 mm	341,627	2 pcs 25,4 (7) 38,1 (3) M 3x0.5 - 4x0,7 - 5x0,8 6x1 - 7x1 - 8x1 8x1,25 - 10x1,25 10x1,5 - 12x1,25 12x1,5 - 12x1,75	N° 0 - 2 25,4 38,1 N° 1

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA METRICA, IN CASSETTA DI LEGNO

CV threading sets, metric thread, in wood box

17012534 **17012535** M



cod.	€ cad/each	Composizione *Description*		
17012534 C.V. 10 passi *10 threads* Misure/*Dimensions*: 583x310x50 mm	**399,234**	3 pcs 25,4 (5) 38,1 (5) M 3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18	N° 1 - 3 25,4 - 38,1	
17012535 C.V. 11 passi *11 threads* Misure/*Dimensions*: 680x380x53 mm	**467,560**	3 pcs 25,4 (5) 38,1 (6) M 3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18 - 20	N° 1 - 3 25,4 - 38,1	

17012536 **17012537** M



cod.	€ cad/each	Composizione *Description*		
17012536 C.V. 10 passi *10 threads* Misure/*Dimensions*: 690x396x53 mm	**569,374**	3 pcs 38,1 (5) 50,8 (5) M 6 - 8 - 10 - 12 - 14 16 - 18 - 20 - 22 - 24	N° 2 - 4 38,1 - 50,8	
17012537 C.V. 13 passi *13 threads* Misure/*Dimensions*: 680x418x58 mm	**609,568**	3 pcs 25,4 (5) 38,1 (4) 50,8 (4) M 3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18 - 20 22 - 24	N° 1 - 2 - 4 25,4 - 38,1 - 50,8	

17012538 **17012539** M



cod.	€ cad/each	Composizione *Description*		
17012538 C.V. 15 passi *15 threads* Misure/*Dimensions*: 700x435x100 mm	**1.694,719**	3 pcs 25,4(5) - 38,1(5) 50,8(5) - 63,5(5) M 3-4-5-6-8-10-12-14 16-18-20-22-24-27-30	N° 1 - 3 - 5 25,4 - 38,1 50,8 - 63,5	
17012539 C.V. 19 passi *19 threads* Misure/*Dimensions*: 700x435x100 mm	**2.443,619**	3 pcs 25,4 (7) 38,1 (4) 50,8 (5) 63,5 (4) M 3 - 4 - 5 - 6 - 7 - 8 - 9 10 - 11 - 12 - 14 - 16 18 - 20 - 22 - 24 - 27 30 - 33	N° 1 - 3 - 6 25,4 - 38,1 50,8 - 63,5	

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA METRICA E BSW/UNC, IN CASSETTA DI LEGNO

CV threading sets, metric and BSW/UNC thread, in wood box

17012541 **17012542**

COMBI M+BSW
M+UNC



Misure/***Dimensions***:
648x413x84 mm

cod.	€ cad/each	Composizione *Description*	
17012541 C.V.	**1.614,344**	3 pcs	N° 1 - 2 - 4 25,4 - 38,1 - 50,8
		M 3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18 - 20 22 - 24 BSW 1/8 - 5/32 - 3/16 - 1/4 5/16 - 3/8 - 7/16 - 1/2 9/16 - 5/8 - 3/4 - 7/8 1"	
17012542 C.V.	**1.627,733**	3 pcs	N° 1 - 2 - 4 25,4 - 38,1 - 50,8
		M 3 - 4 - 5 - 6 - 8 - 10 12 - 14 - 16 - 18 - 20 22 - 24 UNC 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"	

ASSORTIMENTI A FILETTARE AL CV, PER GARAGE TIPO "FIAT RIDOTTO", FILETTATURA METRICA, IN CASSETTA DI LEGNO

CV threading sets, special for automotive, metric thread, in wood box

17012510

FIAT RIDOTTO - M+MF



Misure/*Dimensions*:
635x335x52 mm
Kg. 5,8

cod.	€ cad/each	Composizione *Description*
17012510 C.V. 65 pcs 20 passi *20 threads*	**448,806**	2 pcs 25,4 (8) 38,1 (12) N° 1 - 3 25,4 - 38,1 M 2x0,4 - 3x0,5 - 4x0,7 5x0,8 - 6x1 - 7x1 - 8x1 8x1,25 - 10x1 - 10x1,25 10x1,5 - 12x1,25 12x1,5 - 12x1,75 14x1,25 - 14x1,5 14x2 - 16x1,5 16x2 - 18x1,5

ASSORTIMENTI A FILETTARE AL CV, PER GARAGE TIPO "FIAT GRANDE", SPECIALE PER CAMION, FILETTATURA METRICA, IN CASSETTA DI LEGNO

CV threading sets, special for trucks, metric thread, in wood box

17012512 **17012513**

FIAT GRANDE - M+MF



Misure/*Dimensions*:
600x430x77 mm
Kg. 13,8

cod.	€ cad/each	Composizione *Description*
17012512 C.V. 111 pcs 26 passi *26 pitch*	**1.090,515**	3 pcs 3 x 0,5 4 x 0,7 5 x 0,8 6 x 1 7 x 1 8 x 0,75 8 x 1 8 x 1,25 10 x 1 10 x 1,5 11 x 0,75 12 x 1 12 x 1,5 12 x 1,75 14 x 1 14 x 1,5 14 x 2 16 x 1 16 x 1,5 16 x 2 18 x 1,5 20 x 1,5 20 x 2,5 22 x 1,5 24 x 1,5 24 x 2 N° 1 - 2 - 3 - 4 25,4 - 38,1 - 50,8
17012513 C.V. 114 pcs 30 passi *30 pitch*	**1.199,032**	3 pcs 3 x 0,5 4 x 0,7 5 x 0,8 6 x 1 7 x 1 8 x 1 8 x 1,25 9 x 1 9 x 1,25 10 x 1 10 x 1,25 10 x 1,5 12 x 1 12 x 1,25 12 x 1,5 12 x 1,75 14 x 1 14 x 1,25 14 x 1,5 14 x 2 16 x 1 16 x 1,5 16 x 2 18 x 1,5 20 x 1,5 20 x 2,5 22 x 1,5 22 x 2 24 x 1,5 24 x 2 N° 1 - 3 - 4 25,4 - 38,1 - 50,8 N.1

ASSORTIMENTI A FILETTARE AL CV, PER GARAGE TIPO "FIAT", FILETTATURA METRICA, IN CASSETTA DI LEGNO

CV threading sets, special for automotive, metric thread, in wood box

17012500

FIAT CLASSIC - M+MF



FIAT

Confezione
Packaging



Misure/*Dimensions*:
500x340x70 mm
Kg. 7,9

cod.	€ cad/each	Composizione *Description*
17012500 c.v. 110 pcs 35 passi *35 pitch*	**610,496**	2 pcs 2 x 0,4 3 x 0,5 4 x 0,7 5 x 0,8 6 x 0,75 6 x 1 7 x 0,75 7 x 1 8 x 0,75 8 x 1 8 x 1,25 9 x 0,75 9 x 1 9 x 1,25 10 x 0,75 10 x 1 10 x 1,25 10 x 1,5 11 x 0,75 11 x 1 11 x 1,25 11 x 1,5 12 x 0,75 12 x 1 12 x 1,25 12 x 1,5 12 x 1,75 14 x 1 14 x 1,25 14 x 1,5 14 x 2 16 x 1 16 x 1,5 16 x 2 18 x 1,5 25,4 (14) 38,1 (21) N° 1 - 3 25,4 - 38,1 N.1

Per ravvivare i filetti di:
To renew threads of:

FIAT, ALFA ROMEO, LANCIA, VOLKSWAGEN, BMW, MERCEDES, FORD, OPEL G.M., PEUGEOT, RENAULT, VOLVO, CITROEN, TOYOTA, NISSAN, HONDA, ETC.

ASSORTIMENTI A FILETTARE AL CV, PER GARAGE TIPO "FIAT", FILETTATURA METRICA, IN CASSETTA DI LEGNO

CV threading sets, special for automotive, metric thread, in wood box

17012505

FIAT PLUS - M+MF



FIAT

Confezione
Packaging



Misure/*Dimensions*:
500x340x70 mm
Kg. 8,0

cod.	€ cad/each	Composizione *Description*
17012505 c.v.	**643,060**	111 pcs 35 passi *35 pitch* 2 pcs 2 x 0,4 3 x 0,5 4 x 0,7 5 x 0,8 6 x 0,75 6 x 1 7 x 0,75 7 x 1 8 x 0,75 8 x 1 8 x 1,25 9 x 0,75 9 x 1 9 x 1,25 10 x 0,75 10 x 1 10 x 1,25 10 x 1,5 25,4 (14) 38,1 (21) 11 x 0,75 11 x 1 11 x 1,25 11 x 1,5 12 x 0,75 12 x 1 12 x 1,25 12 x 1,5 12 x 1,75 14 x 1 14 x 1,25 14 x 1,5 14 x 2 16 x 1 16 x 1,5 16 x 2 18 x 1,5 N° 1 - 3 25,4 - 38,1 N.1 0÷150 mm 0,01 Digital

ASSORTIMENTI A FILETTARE AL CV PER GARAGE ED INDUSTRIA, FILETTATURA WHITWORTH , IN CASSETTA DI LEGNO

CV threading sets for garages and industry, Whitworth thread, in wood boxes

17012520 **17012521** **17012522** **BSW**



cod.	€ cad/each	Composizione *Description*	
17012520 c.v. Misure/*Dimensions*: 520x305x50 mm	355,016	3 pcs BSW 1/8 - 5/32 - 3/16 1/4 - 5/16 - 3/8 7/16 - 1/2	N° 1 - 2 25,4 - 38,1
17012521 c.v. Misure/*Dimensions*: 685x419x60 mm	708,708	3 pcs BSW 1/8 - 5/32 - 3/16 1/4 - 5/16 - 3/8 7/16 - 1/2 - 9/16 5/8 - 3/4 - 7/8-1"	N° 1 - 2 - 4 25,4 - 38,1 - 50,8
17012522 c.v. Misure/*Dimensions*: 695x430x99 mm	2.159,603	3 pcs BSW 1/8 - 5/32 - 3/16 - 1/4 5/16 - 3/8 - 7/16 - 1/2 9/16 - 5/8 - 3/4 - 7/8 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2	N° 1 - 3 - 6 25,4 - 38,1 50,8 - 63,5

17012525 BSF



cod.	€ cad/each	Composizione *Description*	
17012525 c.v. Misure/*Dimensions*: 610x393x87 mm	699,330	2 pcs BSF 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"	N° 1 - 4 25,4 - 38,1 - 50,8

ASSORTIMENTI A FILETTARE AL CV PER GARAGE ED INDUSTRIA, FILETTATURA WHITWORTH , IN CASSETTA DI LEGNO

CV threading sets for garages and industry, Whitworth thread, in wood boxes

17012528 **17012529** **BSW+BSF**



cod.	€ cad/each	Composizione *Description*		
17012528 C.V.	**814,537**	BSW 3 pcs BSF 2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4	N° 1 - 3 25,4 - 38,1 - 50,8	Misure/*Dimensions*: 657x313x78 mm
17012529 C.V.	**1.106,594**	BSW 3 pcs BSF 2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"	N° 1 - 4 25,4 - 38,1 - 50,8	Misure/*Dimensions*: 615x390x87 mm

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA GAS CILINDRICA PER TUBI, IN CASSETTA DI LEGNO

CV threading sets, BSP theread, in wood boxes

17012515 **17012516** **BSP**



cod.	€ cad/each	Composizione *Description*		
17012515 C.V.	**857,405**	2 pcs 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"	N° 3 - 5 38,1 - 50,8 - 63,5	Misure/*Dimensions*: 600x433x77 mm
17012516 C.V.	**1.935,867**	2 pcs 1/4 - 3/8 - 1/2 - 3/4 1" - 1.1/4 - 1.1/2	N° 4 - 7 38,1 - 50,8 63,5 - 76,2	Misure/*Dimensions*: 697x476x97 mm

ASSORTIMENTI A FILETTARE AL CV, FILETTATURA GAS CONICA PER TUBI, IN CASSETTA DI LEGNO
CV threading sets, BSPT and NPT theread, in wood boxes

17012540 **BSPT**



cod.	€ cad/each	Composizione *Description*	
17012540 C.V.	**1.149,462**	1 pc 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"	N° 1 - 3 - 5 30x11 - 38x14 45x18 - 55x22 65x25

Misure/*Dimensions*: 672x445x64 mm

17012545 **NPT**



cod.	€ cad/each	Composizione *Description*	
17012545 C.V.	**1.149,462**	1 pc 1/8 - 1/4 - 3/8 1/2 - 3/4 - 1"	N° 1 - 3 - 5 30x11 - 38x14 45x18 - 55x22 65x25

Misure/*Dimensions*: 672x445x64 mm

ASSORTIMENTI A FILETTARE AL CV PER GARAGE ED INDUSTRIA, FILETTATURA UNC, IN CASSETTA DI LEGNO
CV threading sets for garages and industry, UNC theread, in wood boxes

17012560 **17012561** **17012562** UNC



cod.	€ cad/each	Composizione *Description*	
17012560 C.V.	**635,021**	3 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4	N° 1 - 3 25,4 - 38,1 - 50,8
17012561 C.V.	**811,861**	3 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"	N° 1 - 4 25,4 - 38,1 - 50,8
17012562 C.V.	**2.544,098**	3 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2	N° 1 - 3 - 6 25,4 - 38,1 50,8 - 63,5

Misure/*Dimensions*: 610x393x87 mm

ASSORTIMENTI A FILETTARE AL CV PER GARAGE ED INDUSTRIA, FILETTATURA UNC E UNF, IN CASSETTA DI LEGNO

CV threading sets for garages and industry, UNC and UNF theread, in wood boxes

17012565 **17012566** **17012567**

UNF



cod.	€ cad/each	Composizione *Description*	
17012565 c.v. Misure/*Dimensions*: 655x400x55 mm	**600,191**	2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4	N° 1 - 3 25,4 - 38,1 - 50,8
17012566 c.v. Misure/*Dimensions*: 610x393x87 mm	**739,511**	2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"	N° 1 - 4 25,4 - 38,1 - 50,8
17012567 c.v. Misure/*Dimensions*: 610x393x87 mm	**2.450,321**	2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1" - 1.1/8 - 1.1/4 1.3/8 - 1.1/2	N° 1 - 3 - 6 25,4 - 38,1 50,8 - 63,5

17012570 **17012571**

UNC+UNF



cod.	€ cad/each	Composizione *Description*	
17012570 c.v. Misure/*Dimensions*: 657x313x78 mm	**1.239,226**	UNC 3 pcs UNF 2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4	N° 1 - 3 25,4 - 38,1 - 50,8
17012571 c.v. Misure/*Dimensions*: 615x390x87 mm	**1.539,320**	UNC 3 pcs UNF 2 pcs 1/4 - 5/16 - 3/8 - 7/16 1/2 - 9/16 - 5/8 - 3/4 7/8 - 1"	N° 1 - 4 25,4 - 38,1 - 50,8

RIPRISTINO DELLE FILETTATURE

THREAD REPAIR

10600 KIT MONODIMENSIONALI
One dimensional kit

M



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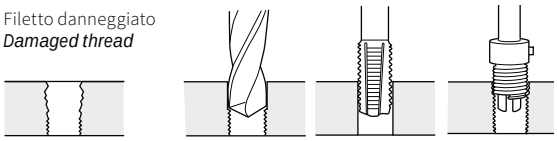
	Ø					1,5 d pcs	cod.	€ cad/each
M	**2**	x 0,4	2,1 mm	N° 2	N° 2	20	10600098	**38,261**
	2,5	x 0,45	2,6 mm	3	3	20	10600099	**38,261**
	3	x 0,5	3,2 mm	4	4	20	10600100	**38,261**
	3,5	x 0,6	3,7 mm	5	5	20	10600101	**38,261**
	4	x 0,7	4,2 mm	6	6	20	10600102	**38,261**
	5	x 0,8	5,2 mm	8	8	20	10600103	**37,682**
	6	x 1	6,3 mm	9	9	20	10600104	**40,551**
	7	x 1	7,3 mm	10	11	20	10600105	**45,794**
	8	x 1,25	8,3 mm	11	11	20	10600106	**45,794**
	8	x 1	8,3 mm	11	11	20	10600107	**45,794**
	9	x 1,25	9,3 mm	12	12	15	10600108	**57,240**
	10	x 1,5	10,4 mm	13	13	15	10600109	**55,319**
	10	x 1,25	10,3 mm	13	13	15	10600110	**55,319**
	10	x 1	10,3 mm	13	13	15	10600111	**55,319**
	11	x 1,5	11,4 mm	14	14	10	10600112	**61,989**
	12	x 1,75	12,4 mm	15	15	10	10600113	**61,989**
	12	x 1,5	12,4 mm	15	15	10	10600114	**61,989**
	12	x 1,25	12,3 mm	15	15	10	10600115	**61,989**
	12	x 1	12,3 mm	15	15	10	10600116	**61,989**
	14	x 2		16		10	10600117	**65,321**
	14	x 1,5		16		10	10600118	**65,321**
	14	x 1,25		17		10	10600119	**65,321**
	14	x 1		17		10	10600120	**65,321**
	16	x 2		18		10	10600121	**79,141**
	16	x 1,5		18		10	10600122	**79,141**
	18	x 2,5		20		5	10600123	**94,660**
	18	x 2		20		5	10600124	**94,660**
	18	x 1,5		20		5	10600125	**94,660**
	20	x 2,5		21		5	10600126	**101,641**
	20	x 2		21		5	10600127	**101,641**
	20	x 1,5		21		5	10600128	**101,641**
	22	x 2,5		22		5	10600129	**124,048**
	22	x 2		22		5	10600130	**124,048**
	22	x 1,5		22		5	10600131	**124,048**
	24	x 3		23		5	10600132	**142,943**
	24	x 2		23		5	10600133	**142,943**
	24	x 1,5		23		5	10600134	**142,943**

M



	Ø			pcs	1,5 d pcs	cod.	€ cad/each
M	**26**	x 1,5		1	10	10600135	**509,497**
	27	x 3		1	10	10600136	**509,497**
	27	x 2		1	10	10600137	**509,497**
	27	x 1,5		1	10	10600138	**509,497**
	28	x 1,5		1	10	10600139	**591,436**
	30	x 3,5		1	10	10600140	**622,319**
	30	x 2		1	10	10600141	**622,319**
	30	x 1,5		1	10	10600142	**622,319**
	33	x 3,5		1	10	10600143	**649,630**
	33	x 2		1	10	10600144	**649,630**
	36	x 4		1	10	10600145	**706,643**
	36	x 3		1	10	10600146	**706,643**
	36	x 2		1	10	10600147	**706,643**
	36	x 1,5		1	10	10600148	**706,643**

Filetto danneggiato
Damaged thread



10605

KIT PLURIDIMENSIONALI
Multi-dimensional kit

M



	ø					1,5 d	pcs	cod.	€ cad/each
M5-M12	**5**	x	0,8	5,2 mm	N° 8	N° 8	25	10605100	235,672
	6	x	1	6,3 mm	9	9	25		
	8	x	1,25	8,3 mm	11	11	25		
	10	x	1,5	10,4 mm	13	13	25		
	12	x	1,75	12,4 mm	15	15	10		

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M6-M14x1,25	**6**	x	1	6,3 mm	9	9	25	10605101	265,034
	8	x	1,25	8,3 mm	11	11	25		
	10	x	1,5	10,4 mm	13	13	25		
	12	x	1,75	12,4 mm	15	15	10		
	14	x	1,25		17		10		

M6-M14x1,25	**6**	x	1	6,3 mm	9	9	25	10605102	273,314
	8	x	1,25	8,3 mm	11	11	25		
	10	x	1,5	10,4 mm	13	13	25		
	12	x	1,75	12,4 mm	15	15	10		
	***14**	x	1,25		17		10		





M6-M10	**6**	x	1	6,3 mm	9	9	25	10605099	153,754
	8	x	1,25	8,3 mm	11	11	25		
	10	x	1,5	10,4 mm	13	13	25		

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10631

KIT MONODIMENSIONALI - SPECIALE PER CANDELE

One dimensional kit- Special for spark plugs

M

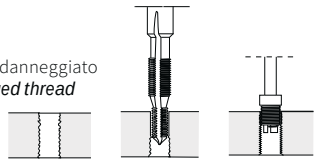


	STI				8,40 d pcs	12,40 d pcs	16,40 d pcs	cod.	€ cad/each
M	**14**	x	1,25	N° 17	5	5	5	10631100	**87,090**



Ricambio *Spare part*	Filetto *Thread*			L	pcs	cod.	€ cad/each
	M **14**	x	1,25	8,4	50	1060614x12508	**1,538**
	14	x	1,25	12,4	50	1060614x12512	**1,538**
	14	x	1,25	16,4	50	1060614x12516	**1,538**

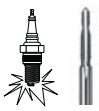
Filetto danneggiato
Damaged thread



M



	STI				1,5 d pcs	cod.	€ cad/each
M	**12**	x	1,25	N° 15	10	10631115	**123,098**
	10	x	1,5	N° 13	10	10631114	**93,645**
	10	x	1.25	N° 13	10	10631113	**93,645**
	10	x	1	N° 13	10	10631112	**93,645**
	8	x	1,25	N° 11	10	10631111	**91,670**
	6	x	1	N° 9	10	10631110	**76,014**



401

10606

10631130

KIT MONODIMENSIONALE - SPECIALE PER CANDELE M14 X 1,25

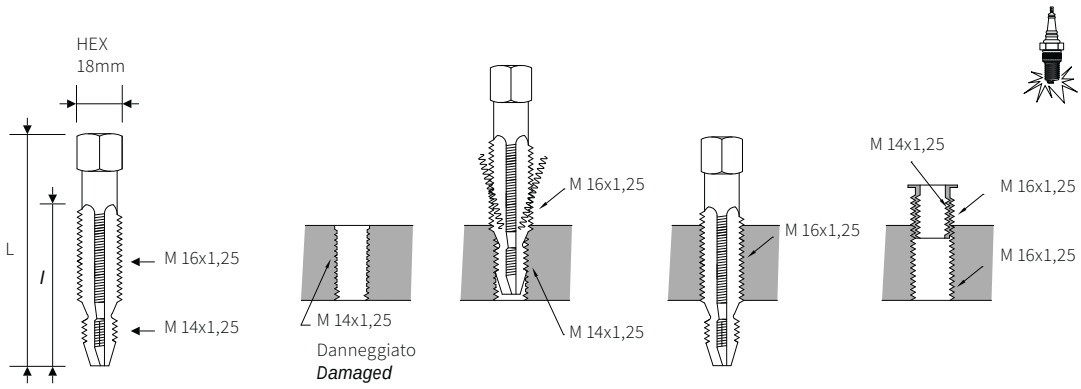
M

One dimensional kit- Special for spark plugs M14 X 1,25



Inserto solido
Solid thread insert

	Ø	9,5 mm pcs	11,2 mm pcs	12,7 mm pcs	17,5 mm pcs	cod.	€ cad/each
M5-M12	**M 16** x 1,25	4	4	4	4	10631130	**108,912**



Maschio combinato / *Combined tap*

Ricambi *Spare parts*	Ø	L	l	pcs	cod.	€ cad/each
	M 16 x 1,25	70	41	1	1062616x125	**88,855**

Inserto solido / *Solid insert*

Ricambi *Spare parts*	Ø	HSS mm	pcs	cod.	€ cad/each
	M 14 x 1,25	9,5	50	1062714x12509	**7,056**
	M 14 x 1,25	11,2	50	1062714x12511	**7,291**
	M 14 x 1,25	12,7	50	1062714x12512	**7,291**
	M 14 x 1,25	17,5	50	1062714x12517	**7,644**

10631205

KIT PLURIDIMENSIONALE - SPECIALE PER CANDELETTE 8-10-12 MM

M

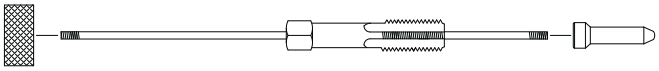
One dimensional kit- Special for spark plugs 8-10-12 MM



Abs

Inserto solido
Solid thread insert

	12 mm pcs	cod.	€ cad/each
M 8x1 - M 10x1 - M 10x1,25 M 12x1 - M 12x1,25 - M 14x1,25	M 8x1 - M 10x1 M 10x1,25 - M 12x1	10631205	**339,516**



Il set contiene un'asta di montaggio, con relativa impugnatura, 3 tappi e 2 utensili inseritori.
This set contains 1 insert fitting rod, its grip handle, 3 plug end blanks and 2 insert fitting tools.

10600 KIT MONODIMENSIONALI

One dimensional kit



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BSW

Ø						pcs	cod.	€ cad/each
1/8	x	40	3,4 mm	N° 4	N° 4	20	10600168	**55,497**
3/16	x	24	5,0 mm	8	8	20	10600169	**55,497**
1/4	x	20	6,7 mm	9	9	20	10600170	**49,977**
5/16	x	18	8,3 mm	10	11	20	10600171	**61,237**
3/8	x	16	9,9 mm	12	12	15	10600172	**65,328**
7/16	x	14	11,5 mm	14	14	10	10600173	**73,322**
1/2	x	12	13,0 mm	15	15	10	10600174	**80,492**
9/16	x	12		16		10	10600175	**108,083**
5/8	x	11		18		10	10600176	**108,083**
3/4	x	10		20		5	10600177	**137,347**
7/8	x	9		22		5	10600178	**167,411**
1”	x	8		23		4	10600179	**159,292**

BSF

Ø						pcs	cod.	€ cad/each
3/16	x	32	5,0 mm	N° 7	N° 6	20	10600185	**55,497**
1/4	x	26	6,6 mm	9	9	20	10600180	**49,977**
5/16	x	22	8,3 mm	11	11	20	10600181	**61,237**
3/8	x	20	9,9 mm	13	13	15	10600182	**65,328**
7/16	x	18	11,5 mm	14	14	10	10600183	**73,322**
1/2	x	16	13,0 mm	15	15	10	10600184	**80,492**
9/16	x	16		16		10	10600186	**108,083**
5/8	x	14		18		10	10600187	**108,083**
3/4	x	12		20		5	10600188	**137,347**
7/8	x	11		22		5	10600189	**167,411**
1”	x	10		23		4	10600190	**159,292**

BSP

	Ø			pcs	pcs	cod.	€ cad/each
G	**1/8**	x	28	1	10	10600191	**134,958**
	1/4	x	19	1	10	10600192	**146,837**
	3/8	x	19	1	10	10600193	**157,629**
	1/2	x	14	1	10	10600194	**200,508**
	5/8	x	14	1	10	10600195	**449,143**
	3/4	x	14	1	10	10600196	**449,143**
	7/8	x	14	1	10	10600197	**617,566**
	1”	x	11	1	10	10600198	**617,566**

10605 KIT PLURIDIMENSIONALE

Multi-dimensional kit



BSW-BSF

	Ø						pcs	cod.	€ cad/each
BSW 1/4 - 1/2	**1/4**	x	20	6,7 mm	N° 9	9	25	10605105	**313,854**
	5/16	x	18	8,3 mm	10	11	25		
	3/8	x	16	9,9 mm	12	12	25		
	7/16	x	14	11,5 mm	14	14	10		
	1/2	x	12	13,0 mm	15	15	10		
BSF 1/4 - 1/2	**1/4**	x	20	6,7 mm	N° 9	9	25	10605106	**313,854**
	5/16	x	18	8,3 mm	10	11	25		
	3/8	x	16	9,9 mm	12	12	25		
	7/16	x	14	11,5 mm	14	14	10		
	1/2	x	12	13,0 mm	15	15	10		

10600 KIT MONODIMENSIONALI
One dimensional kit



UNC

	Ø					pcs	cod.	€ cad/each
No.	**6**	x	32	3,8 mm	N° 5	N° 5	20	106001481	**61,665**
	8	x	32	4,4 mm	6	6	20	10600149	**61,665**
	10	x	24	5,2 mm	7	6	20	106001490	**61,665**
	12	x	24	5,8 mm	8	8	20	106001491	**61,665**
UNC	**1/4**	x	20	6,7 mm	9	9	20	10600150	**55,528**
	5/16	x	18	8,3 mm	10	10	20	10600151	**68,041**
	3/8	x	16	9,9 mm	12	12	15	10600152	**72,591**
	7/16	x	14	11,6 mm	14	14	10	10600153	**81,472**
	1/2	x	13	13,0 mm	15	15	10	10600154	**89,435**
	9/16	x	12		16		10	10600155	**120,094**
	5/8	x	11		18		10	10600156	**120,094**
	3/4	x	10		20		5	10600157	**152,602**
	7/8	x	9		22		5	10600158	**186,019**
	1”	x	8		23		4	10600159	**176,990**

	Ø			pcs	pcs	cod.	€ cad/each
UNC	**1.1/8**	x	7	1	10	106001590	**551,010**
	1.1/4	x	7	1	10	106001591	**607,488**
	1.1/2	x	6	1	10	106001592	**814,037**

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UNF

	Ø					pcs	cod.	€ cad/each
No.	**6**	x	40	3,8 mm	N° 5	N° 5	20	106001597	**61,665**
	8	x	36	4,4 mm	6	6	20	106001598	**61,665**
	10	x	32	5,1 mm	8	8	20	106001599	**61,665**
UNF	**1/4**	x	28	6,7 mm	9	9	20	10600160	**55,528**
	5/16	x	24	8,3 mm	11	11	20	10600161	**68,041**
	3/8	x	24	9,8 mm	13	13	15	10600162	**72,591**
	7/16	x	20	11,5 mm	14	14	10	10600163	**81,472**
	1/2	x	20	13,0 mm	15	15	10	10600164	**89,435**
	9/16	x	18		16		10	10600165	**120,094**
	5/8	x	18		18		10	10600166	**120,094**
	3/4	x	16		21		5	10600167	**152,602**
	7/8	x	14		22		5	106001670	**186,019**
	1”	x	12		23		4	106001671	**176,990**

	Ø			pcs	pcs	cod.	€ cad/each
UNF	**1.1/8**	x	12	1	10	106001672	**550,790**
	1.1/4	x	12	1	10	106001673	**607,488**
	1.1/2	x	12	1	10	106001674	**814,037**

10605 KIT PLURIDIMENSIONALE
Multi-dimensional kit



UNC-UNF

	Ø					pcs	cod.	€ cad/each
UNC 1/4 - 1/2	**1/4**	x	20	6,7 mm	N° 9	9	25	10605103	**313,854**
	5/16	x	18	8,3 mm	10	11	25		
	3/8	x	16	9,9 mm	12	12	25		
	7/16	x	14	11,5 mm	14	14	10		
	1/2	x	13	13,0 mm	15	15	10		
UNF 1/4 - 1/2	**1/4**	x	28	6,7 mm	N° 9	9	25	10605104	**313,854**
	5/16	x	24	8,3 mm	11	11	25		
	3/8	x	24	9,8 mm	13	13	25		
	7/16	x	20	11,5 mm	14	14	10		
	1/2	x	20	13,0 mm	15	15	10		

10606 K-COIL DIN 8140 - ISO 2/6H



Acciaio inox austenitico 18/8 (A2 - AISI304) / *Austenitic stainless steel*

M

Filetto *Thread*	pcs	1 x d cod.	€ cad/each	1,5 x d cod.	€ cad/each	2 x d cod.	€ cad/each	2,5 x d cod.	€ cad/each	3 x d cod.	€ cad/each
M 2 x 0,4	100	10606102x04	**1,291**	1060602x04	**1,538**	10606202x04	**1,956**	106062502X04	**2,087**	10606302x04	**2,764**
2,2 x 0,45	100	106061022x045	**1,291**	10606022x045	**1,538**	106062022x045	**1,956**	1060625022X04	**2,087**	106063022x045	**2,764**
2,5 x 0,45	100	106061025x045	**1,291**	10606025x045	**0,522**	106062025x045	**0,883**	1060625025X04	**0,914**	106063025x045	**1,174**
3 x 0,5	100	10606103x05	**0,494**	1060603x05	**0,541**	10606203x05	**0,564**	106062503X05	**0,730**	10606303x05	**0,756**
3,5 x 0,6	100	106061035x06	**0,494**	10606035x06	**1,538**	106062035x06	**0,564**	1060625035X06	**0,914**	106063035x06	**1,043**
4 x 0,7	100	10606104x07	**0,412**	1060604x07	**0,500**	10606204x07	**0,447**	106062504X07	**0,664**	10606304x07	**0,795**
5 x 0,8	100	10606105x08	**0,392**	1060605x08	**0,353**	10606205x08	**0,495**	106062505X08	**0,572**	10606305x08	**0,679**
6 x 1	100	10606106x1	**0,392**	1060606x1	**0,353**	10606206x1	**0,572**	106062506X1	**0,588**	10606306x1	**0,744**
7 x 1	100	10606107x1	**0,417**	1060607x1	**0,561**	10606207x1	**0,691**	106062507X1	**0,848**	10606307x1	**1,214**
8 x 1,25	100	10606108x125	**0,455**	1060608x125	**0,417**	10606208x125	**0,744**	106062508X125	**0,795**	10606308x125	**1,108**
8 x 1	100	10606108x1	**0,455**	1060608x1	**0,447**	10606208x1	**0,691**	106062508X1	**0,795**	10606308x1	**0,939**
9 x 1,25	100	10606109x125	**0,653**	1060609x125	**0,756**	10606209x125	**0,939**	106062509X125	**1,500**	10606309x125	**1,786**
10 x 1,5	100	10606110x15	**0,600**	1060610x15	**0,627**	10606210x15	**0,795**	106062510X15	**0,939**	10606310x15	**1,214**
10 x 1,25	100	10606110x125	**0,600**	1060610x125	**0,627**	10606210x125	**0,795**	106062510X125	**0,939**	10606310x125	**1,214**
10 x 1	100	10606110x1	**0,600**	1060610x1	**0,627**	10606210x1	**0,795**	106062510X1	**0,939**	10606310x1	**1,214**
11 x 1,5	100	10606111x15	**0,991**	1060611x15	**1,056**	10606211x15	**1,264**	-	**-**	-	**-**
12 x 1,75	100	10606112x175	**0,848**	1060612x175	**0,860**	10606212x175	**1,082**	106062512X175	**1,147**	10606312x175	**1,721**
12 x 1,5	100	10606112x15	**0,848**	1060612x15	**0,860**	10606212x15	**1,082**	106062512X15	**1,147**	10606312x15	**1,721**
12 x 1,25	100	10606112x125	**0,848**	1060612x125	**0,860**	10606212x125	**1,082**	106062512X125	**1,147**	10606312x125	**1,721**
12 x 1	100	10606112x1	**0,848**	1060612x1	**0,860**	10606212x1	**1,082**	106062512X1	**1,147**	10606312x1	**1,721**
14 x 2	50	10606114x2	**1,252**	1060614x2	**1,082**	10606214x2	**1,409**	106062514X2	**1,566**	10606314x2	**2,491**
14 x 1,5	50	10606114x15	**1,252**	1060614x15	**1,082**	10606214x15	**1,409**	106062514X15	**1,566**	10606314x15	**2,280**
14 x 1,25	50	10606114x125	**1,252**	1060614x125	**1,082**	10606214x125	**1,409**	106062514X125	**1,566**	10606314x125	**2,280**
14 x 1	50	10606114x1	**1,252**	1060614x1	**1,082**	10606214x1	**1,409**	106062514X1	**1,566**	10606314x1	**2,280**
16 x 2	50	10606116x2	**1,436**	1060616x2	**1,225**	10606216x2	**1,852**	106062516X2	**2,280**	10606316x2	**2,738**
16 x 1,5	50	10606116x15	**1,436**	1060616x15	**1,225**	10606216x15	**1,852**	106062516X15	**2,280**	10606316x15	**2,738**
18 x 2,5	25	10606118x25	**2,087**	1060618x25	**1,956**	10606218x25	**3,300**	106062518X25	**3,650**	10606318x25	**4,420**
18 x 2	25	10606118x2	**2,087**	1060618x2	**1,956**	10606218x2	**3,300**	106062518X2	**3,650**	10606318x2	**4,420**
18 x 1,5	25	10606118x15	**2,087**	1060618x15	**1,956**	10606218x15	**3,300**	106062518X15	**3,650**	10606318x15	**4,420**
20 x 2,5	25	10606120x25	**2,738**	1060620x25	**2,477**	10606220x25	**4,199**	106062520X25	**5,019**	10606320x25	**5,619**
20 x 2	25	10606120x2	**2,738**	1060620x2	**2,477**	10606220x2	**4,199**	106062520X2	**5,019**	10606320x2	**5,619**
20 x 1,5	25	10606120x15	**2,738**	1060620x15	**2,477**	10606220x15	**4,199**	106062520X15	**5,019**	10606320x15	**5,619**
22 x 2,5	10	10606122x25	**3,128**	1060622x25	**3,261**	10606222x25	**4,706**	106062522X25	**5,646**	10606322x25	**6,023**
22 x 2	10	10606122x2	**3,128**	1060622x2	**3,261**	10606222x2	**4,706**	106062522X2	**5,646**	10606322x2	**6,023**
22 x 1,5	10	10606122x15	**3,128**	1060622x15	**3,261**	10606222x15	**4,706**	106062522X15	**5,646**	10606322x15	**6,023**
24 x 3	10	10606124x3	**3,650**	1060624x3	**4,198**	10606224x3	**5,488**	106062524X3	**6,584**	10606324x3	**6,779**
24 x 2	10	10606124x2	**3,650**	1060624x2	**4,198**	10606224x2	**5,488**	106062524X2	**6,584**	10606324x2	**6,779**
24 x 1,5	10	10606124x15	**3,650**	1060624x15	**4,198**	10606224x15	**5,488**	106062524X15	**6,584**	10606324x15	**6,779**
26 x 1,5	5	-		1060626x15	**6,670**	-		-		-	
27 x 3	5	-		1060627x3	**6,670**	-		-		-	
27 x 2	5	-		1060627x2	**6,670**	-		-		-	
27 x 1,5	5	-		1060627x15	**6,670**	-		-		-	
28 x 1,5	5	-		1060628x15	**7,530**	-		-		-	
30 x 3,5	5	-		1060630x35	**8,777**	-		-		-	
30 x 2	5	-		1060630x2	**8,777**	-		-		-	
30 x 1,5	5	-		1060630x15	**8,777**	-		-		-	
33 x 3,5	5	-		1060633x35	**10,498**	-		-		-	
33 x 2	5	-		1060633x2	**10,498**	-		-		-	
36 x 4	5	-		1060636x4	**9,638**	-		-		-	
36 x 3	5	-		1060636x3	**9,638**	-		-		-	
36 x 2	5	-		1060636x2	**9,638**	-		-		-	
36 x 1,5	5	-		1060636x15	**9,638**	-		-		-	


1xd


1,5xd

Nota: la misura è riferita all'inserto posizionato nella sua sede

Note: *the coil length refers to the tool mounted inside its site*

10625 DIN 8140 - ISO 2/6H



Acciaio inox austenitico 18/8 (A2 - AISI304) / *Austenitic stainless steel*

AUTOBLOCCANTI - M

Filetto / *Thread*		pcs	1 x d cod.	€ cad/each	1,5 x d cod.	€ cad/each	2 x d cod.	€ cad/each
M	**3** x 0,5	100	10625103x05	**0,561**	1062503x05	**0,588**	10625203x05	**0,627**
	4 x 0,7	100	10625104x07	**0,561**	1062504x07	**0,588**	10625204x07	**0,627**
	5 x 0,8	100	10625105x08	**0,627**	1062505x08	**0,653**	10625205x08	**0,718**
	6 x 1	100	10625106x1	**0,691**	1062506x1	**0,756**	10625206x1	**0,821**
	8 x 1,25	100	10625108x125	**0,718**	1062508x125	**0,821**	10625208x125	**0,991**
	10 x 1,5	100	10625110x15	**0,925**	1062510x15	**0,991**	10625210x15	**1,147**
	12 x 1,75	100	10625112x175	**1,343**	1062512x175	**1,538**	10625212x175	**1,746**
	14 x 2	50	10625114x2	**1,903**	1062514x2	**2,165**	10625214x2	**2,268**
	16 x 2	50	10625116x2	**2,569**	1062516x2	**2,699**	10625216x2	**3,324**

Consigli d'uso
Si consiglia l'utilizzo di inserti autobloccanti nel caso di sollecitazioni cicliche del filetto o della necessità di una particolare resistenza agli impatti. Si consiglia inoltre l'uso con viti nichelate o ben lubrificate.
L'inserto autobloccante è dotato di alcune spire poligonali inserite tra le spire circolari per tutta la sua lunghezza: tali spire poligonali esercitano una pressione radiale maggiore sulla vite inserita nell'inserto funzionando da bloccaggio. Rimuovendo la vite, le spire poligonali tornano nella loro forma originale garantendo un ottimo livello di pressione radiale per una serie di avvitature/svitature successive.

Use tips
Screw locking inserts are of particular value in applications subject to the effects of cyclic vibration or impact. The prevailing locking torque they assure is achieved by the action of one or more polygonal grip coils positioned within the insert's length, which exert radial pressure on the male thread. As the male thread passes through these grip coils, the locking flats are displaced thus exerting radial pressure or prevailing torque on the male thread. When removing the male thread, the locking coils relax to their original form permitting repeated assembly while retaining a measurable level of prevailing torque. Please use only close fit plated or lubricated bolts or screws with the screw locking inserts.

10607 K-COIL DIN 8140 - ISO 2/6H

UNC



Acciaio inox austenitico 18/8 / *Austenitic stainless steel 18/8*

	Ø	pcs.	1,5 d cod.	€ cad/each
No.	**8** x 32	100	10607N08	**0,600**
	10 x 24	100	10607N10	**0,600**
	12 x 24	100	10607N12	**0,600**
UNC	**1/4** x 20	100	106071/4	**0,860**
	5/16 x 18	100	106075/16	**0,860**
	3/8 x 16	100	106073/8	**1,108**
	7/16 x 14	100	106077/16	**1,475**
	1/2 x 13	100	106071/2	**1,475**
	9/16 x 12	50	106079/16	**5,176**
	5/8 x 11	50	106075/8	**5,176**
	3/4 x 10	25	106073/4	**6,114**
	7/8 x 9	10	106077/8	**8,957**
	1” x 8	10	106071	**8,957**
	1.1/8 x 7	5	106071.1/8	**14,497**
	1.1/4 x 7	5	106071.1/4	**15,919**
	1.1/2 x 6	5	106071.1/2	**20,470**

10608 K-COIL DIN 8140 - ISO 2/6H

UNF



Acciaio inox austenitico 18/8 / *Austenitic stainless steel 18/8*

	Ø	pcs.	1,5 d cod.	€ cad/each
No.	**8** x 36	100	10608N08	**1,369**
	10 x 32	100	10608N10	**0,860**
UNF	**1/4** x 28	100	106081/4	**0,860**
	5/16 x 24	100	106085/16	**0,860**
	3/8 x 24	100	106083/8	**1,108**
	7/16 x 20	100	106087/16	**1,475**
	1/2 x 20	100	106081/2	**1,475**
	9/16 x 18	50	106089/16	**5,176**
	5/8 x 18	50	106085/8	**5,176**
	3/4 x 16	25	106083/4	**6,114**
	7/8 x 14	10	106087/8	**8,957**
	1” x 12	10	106081	**8,957**
	1.1/8 x 12	5	106081.1/8	**14,497**
	1.1/4 x 12	5	106081.1/4	**15,919**
	1.1/2 x 12	5	106081.1/2	**20,470**

10609 K-COIL DIN 8140 - ISO 2/6H

BSW



Acciaio inox austenitico 18/8 / *Austenitic stainless steel 18/8*

	Ø	pcs.	1,5 d cod.	€ cad/each
	1/8 x 40	100	106091/8	**1,813**
	3/16 x 24	100	106093/16	**1,813**
	1/4 x 20	100	106091/4	**0,744**
	5/16 x 18	100	106095/16	**0,914**
	3/8 x 16	100	106093/8	**1,512**
	7/16 x 14	100	106097/16	**1,878**
	1/2 x 12	100	106091/2	**1,878**
	9/16 x 12	50	106099/16	**5,372**
	5/8 x 11	50	106095/8	**5,372**
	3/4 x 10	25	106093/4	**6,402**
	7/8 x 9	10	106097/8	**8,957**
	1” x 8	10	106091	**10,236**

10610 K-COIL DIN 8140 - ISO 2/6H

BSF



Acciaio inox austenitico 18/8 / *Austenitic stainless steel 18/8*

Ø	pcs.	1,5 d cod.	€ cad/each
3/16 x 32	100	106103/16	**1,813**
1/4 x 26	100	106101/4	**1,813**
5/16 x 22	100	106105/16	**1,813**
3/8 x 20	100	106103/8	**1,813**
7/16 x 18	100	106107/16	**1,878**
1/2 x 16	100	106101/2	**1,878**
9/16 x 16	50	106109/16	**5,372**
5/8 x 14	50	106105/8	**5,372**
3/4 x 12	25	106103/4	**6,402**
7/8 x 11	10	106107/8	**8,957**
1” x 10	10	106101	**10,236**

10604 K-COIL DIN 8140 - ISO 2/6H

BSP



Acciaio inox austenitico 18/8 / *Austenitic stainless steel 18/8*

	Ø	pcs.	1,5 d cod.	€ cad/each
G	**1/8** x 28	50	106041/8	**1,249**
	1/4 x 19	50	106041/4	**1,867**
	3/8 x 19	50	106043/8	**2,194**
	1/2 x 14	50	106041/2	**2,813**
	5/8 x 14	5	106045/8	**7,022**
	3/4 x 14	5	106043/4	**7,022**
	7/8 x 14	5	106047/8	**21,548**
	1” x 11	5	106041	**21,548**

MASCHI STI PER L'INSERIMENTO DI INSERTI FILETTATI K-COIL ISO 2
STI taps for wire thread inserts ISO 2

10612 HSS-G FORM D ISO 1/4H



M	Ø	cod.	€ cad/each
M	**2** x 0,4	1061202X04	**18,763**
	2,5 x 0,45	10612025X045	**18,763**
	3 x 0,5	1061203X05	**14,420**
	3,5 x 0,6	10612035X06	**14,420**
	4 x 0,7	1061204X07	**14,420**
	5 x 0,8	1061205X08	**14,420**
	6 x 1	1061206X1	**14,420**
	7 x 1	1061207X1	**17,836**
	8 x 1,25	1061208X125	**17,836**
	8 x 1	1061208X1	**17,836**
	9 x 1,25	1061209X125	**21,982**
	10 x 1,5	1061210X15	**21,982**
	10 x 1,25	1061210X125	**21,982**
	10 x 1	1061210X1	**21,982**
	11 x 1,5	1061211X15	**24,695**
	12 x 1,75	1061212X175	**30,197**
	12 x 1,5	1061212X15	**30,197**
	12 x 1,25	1061212X125	**30,197**
	12 x 1	1061212X1	**30,197**
	14 x 2	1061214X2	**34,304**
	14 x 1,5	1061214X15	**34,304**
	14 x 1,25	1061214X125	**34,304**
	14 x 1	1061214X1	**34,304**
	16 x 2	1061216X2	**41,161**
	16 x 1,5	1061216X15	**41,161**
	18 x 2,5	1061218X25	**52,153**
	18 x 2	1061218X2	**52,153**
	18 x 1,5	1061218X15	**52,153**
	20 x 2,5	1061220X25	**57,655**
	20 x 2	1061220X2	**57,655**
	20 x 1,5	1061220X15	**57,655**
	22 x 2,5	1061222X25	**65,895**
	22 x 2	1061222X2	**65,895**
	22 x 1,5	1061222X15	**65,895**
	24 x 3	1061224X3	**83,717**
	24 x 2	1061224X2	**83,717**
	24 x 1,5	1061224X15	**83,717**

10612 HSS-G ISO 1/4H



2 pcs set

M	Ø	cod.	€ cad/each
M	**26** x 1,5	1061226X15	**331,680**
	27 x 3	1061227X3	**331,680**
	27 x 2	1061227X2	**331,680**
	27 x 1,5	1061227X15	**331,680**
	28 x 1,5	1061228X15	**374,549**
	30 x 3,5	1061230X35	**374,549**
	30 x 2	1061230X2	**374,549**
	30 x 1,5	1061230X15	**374,549**
	33 x 3,5	1061233X35	**374,549**
	33 x 2	1061233X2	**374,549**
	36 x 4	1061236X4	**415,164**
	36 x 3	1061236X3	**415,164**
	36 x 2	1061236X2	**415,164**
	36 x 1,5	1061236X15	**415,164**

MASCHIO COMBI PER L'INSERIMENTO DI INSERTI FILETTATI ISO 2 SPECIALE PER CANDELE
Spark plug taps with pilot nose for wire thread insert ISO 2

10620 HSS-G ISO 1/4H



M	Ø	cod.	€ cad/each
M	**6** x 1	1062006X1	**28,671**
	8 x 1,25	1062008X125	**28,671**
	10 x 1,5	1062010X15	**36,220**
	10 x 1,25	1062010X125	**49,545**
	10 x 1	1062010X1	**49,545**
	12 x 1,25	1062012X125	**52,126**
	14 x 1,25	1062014X125	**60,459**
	18 x 1,5	1062018X15	**86,522**



MASCHI STI PER L'INSERIMENTO DI INSERTI FILETTATI K-COIL ISO 2

STI taps for wire thread inserts ISO 2

10613 HSS-G FORM D



UNC

	Ø	cod.	€ cad/each
No.	**8** x 32	10613NR08	**25,021**
	10 x 24	10613NR10	**25,021**
	12 x 24	10613NR12	**25,021**
UNC	**1/4** x 20	106131/4	**16,494**
	5/16 x 18	106135/16	**17,916**
	3/8 x 16	106133/8	**18,763**
	7/16 x 14	106137/16	**25,021**
	1/2 x 13	106131/2	**28,436**
	9/16 x 12	106139/16	**47,186**
	5/8 x 11	106135/8	**58,281**
	3/4 x 10	106133/4	**70,797**
	7/8 x 9	106137/8	**82,441**
	1" x 8	106131	**107,839**

10614 HSS-G FORM D



UNF

	Ø	cod.	€ cad/each
No.	**8** x 36	10614NR08	**25,021**
	10 x 32	10614NR10	**25,021**
UNF	**1/4** x 28	106141/4	**16,494**
	5/16 x 24	106145/16	**17,916**
	3/8 x 24	106143/8	**18,763**
	7/16 x 20	106147/16	**25,021**
	1/2 x 20	106141/2	**29,570**
	9/16 x 18	106149/16	**47,186**
	5/8 x 18	106145/8	**58,281**
	3/4 x 16	106143/4	**70,797**
	7/8 x 14	106147/8	**82,441**
	1" x 12	10614112	**103,406**
	1" x 14	10614114	**103,406**

10617 HSS-G FORM D



2 pcs set

BSP

	Ø	cod.	€ cad/each
BSP	**1/8** x 28	106171/8	**54,760**
	1/4 x 19	106171/4	**73,013**
	3/8 x 19	106173/8	**91,085**
	1/2 x 14	106171/2	**105,780**
	5/8 x 14	106175/8	**146,029**
	3/4 x 14	106173/4	**219,042**
	7/8 x 14	106177/8	**275,994**
	1" x 11	106171	**340,702**

10615 HSS-G FORM D



BSW

	Ø	cod.	€ cad/each
BSW	**1/8** x 40	106151/8	**16,494**
	3/16 x 24	106153/16	**16,494**
	1/4 x 20	106151/4	**16,494**
	5/16 x 18	106155/16	**17,916**
	3/8 x 16	106153/8	**18,763**
	7/16 x 14	106157/16	**25,021**
	1/2 x 12	106151/2	**28,436**
	9/16 x 12	106159/16	**47,186**
	5/8 x 11	106155/8	**58,281**
	3/4 x 10	106153/4	**70,797**
	7/8 x 9	106157/8	**82,441**
	1" x 8	106151	**107,839**

10616 HSS-G FORM D



BSF

	Ø	cod.	€ cad/each
BSF	**3/16** x 32	106163/16	**17,288**
	1/4 x 26	106161/4	**16,494**
	5/16 x 22	106165/16	**17,916**
	3/8 x 20	106163/8	**18,763**
	7/16 x 18	106167/16	**25,021**
	1/2 x 16	106161/2	**28,436**
	9/16 x 16	106169/16	**49,467**
	5/8 x 14	106165/8	**61,071**
	3/4 x 12	106163/4	**74,201**
	7/8 x 11	106167/8	**86,391**
	1" x 10	106161	**107,839**

10618 PUNTA ELICOIDALE PER PREFORI FIL. DANNEGGIATE

Twist drill for damaged threads



Ø	l	L	Per filetto / For thread	cod.	€ cad/each
2,1	24	49	**M 2 x 0,4**	106180210	**1,225**
2,6	30	57	**2,5 x 0,45**	106180260	**1,409**
3,2	36	65	**3 x 0,5**	106180320	**1,512**
3,7	39	70	**3,5 x 0,6**	106180370	**1,655**
4,2	43	75	**4 x 0,7**	106180420	**2,047**
5,2	52	86	**5 x 0,8**	106180520	**2,686**
6,3	63	101	**6 x 1**	106180630	**3,728**
7,3	69	109	**7 x 1**	106180730	**4,772**
8,3	75	117	**8 x 1,25 - 8x1**	106180830	**6,584**
9,3	81	125	**9 x 1,25**	106180930	**7,734**
10,3	87	133	**10 x 1,25 - 10x1**	106181030	**10,469**
10,4	87	133	**10 x 1,5**	106181040	**23,580**
11,4	94	133	**11 x 1,5**	106181140	**25,656**
12,3	101	133	**12 x 1,25 - 12x1**	106181230	**25,656**
12,4	101	133	**12 x 1,75 - 12x1,5**	106181240	**35,203**

10611 UTENSILE PER LA ROTTURA DEL PERNO DI TRASCINAMENTO K-COIL

Tang break tool



Ø	N°	cod.	€ cad/each
M **2** x 0,4	2	1061102	**4,434**
2,5 x 0,45	3	1061103	**4,434**
3 x 0,5	4	1061104	**4,434**
3,5 x 0,6	5	1061105	**4,434**
4 x 0,7	6	1061106	**4,434**
5 x 0,8	8	1061108	**4,434**
6 x 1	9	1061109	**4,434**
7 x 1 - 8x1,25 - 8x1	11	1061111	**4,981**
9 x 1,25	12	1061112	**4,981**
10 x 1,5 - 10x1,25 - 10x1	13	1061113	**4,981**
11 x 1,5	14	1061114	**6,011**
12 x 1,75 - 12x1,5 - 12x1,25 - 12x1	15	1061115	**6,011**

10622 ESTRATTORE K-COIL

Extracting tool



N°			cod.	€ cad/each
2	**M**	**3 ÷ 10**	1062202	**40,940**
		3/16 ÷ 3/8		
3	**M**	**11 ÷ 24**	1062203	**49,806**
		3/8 ÷ 1"		

10621

UTENSILE MANUALE PER INSERIRE I K-COIL
Inserting tool for K-coil



	Ø	N°	cod.	€ cad/each
M	**2** x 0,4	2	1062102	**13,572**
	2,5 x 0,45	3	1062103	**13,572**
	3 x 0,5	4	1062104	**12,961**
	3,5 x 0,6	5	1062105	**12,961**
	4 x 0,7	6	1062106	**12,961**
	5 x 0,8	8	1062108	**14,577**
	6 x 1	9	1062109	**14,577**
	7 x 1	10	1062110	**16,636**
	8 x 1,25 - 8x1	11	1062111	**16,636**
	9 x 1,25	12	1062112	**17,916**
	10 x 1,5 - 10x1,25 - 10x1	13	1062113	**17,916**
	11 x 1,5	14	1062114	**20,979**
	12 x 1,75 - 12x1,5 - 12x1,25 - 12x1	15	1062115	**20,979**
	14 x 2 - 14x1,5	16	1062116	**25,072**
	14 x 1,25 - 14x1	17	1062117	**25,072**
	16 x 2 - 16x1,5	18	1062118	**30,704**
	18 x 2,5 - 18x2 - 18x1,5	20	1062120	**30,704**
	20 x 2,5 - 20x2 - 20x1,5	21	1062121	**30,704**
	22 x 2,5 - 22x2 - 22x1,5	22	1062122	**38,659**
	24 x 2,5 - 24x2 - 24x1,5	23	1062123	**38,659**

10628

INSERITORE CON ATTACCO 1/4" HEX FORM E
Inserting tool with 1/4" HEX FORM E hex shank



Per filetto *For thread*	cod.	€ cad/each
M 3	1062803X05	**24,121**
M 4	1062804X07	**24,121**
M 5	1062805X08	**24,121**
M 6	1062806X1	**24,121**
M 8	1062808X125	**29,859**
M 10	1062810X15	**32,856**
M 12	1062812X175	**38,854**

10623

INSERITORE CON ATTACCO ESAGONALE DA 1/2

Inserting tool with 1/2" hexagonal drive



	Ø	cod.	€ cad/each
M	**26** x 1,5	1062326X15	**48,476**
	27 x 3	1062327X3	**48,476**
	27 x 2	1062327X2	**48,476**
	27 x 1,5	1062327X15	**48,476**
	28 x 1,5	1062328X15	**48,476**
	30 x 3,5	1062330X35	**58,164**
	30 x 2	1062330X2	**58,164**
	30 x 1,5	1062330X15	**58,164**
	33 x 3,5	1062333X35	**67,551**
	33 x 2	1062333X2	**67,551**
	36 x 4	1062336X4	**67,551**
	36 x 3	1062336X3	**67,551**
	36 x 2	1062336X2	**67,551**
	36 x 1,5	1062336X15	**67,551**

	Ø	cod.	€ cad/each
G	***1/8** x 28	10623G1/8	**29,089**
	***1/4** x 19	10623G1/4	**29,089**
	***3/8** x 19	10623G3/8	**33,783**
	***1/2** x 14	10623G1/2	**38,776**
	5/8 x 14	10623G5/8	**48,476**
	3/4 x 14	10623G3/4	**48,476**
	7/8 x 14	10623G7/8	**67,551**
	1" x 11	10623G1	**67,551**

* Attacco da 1/4"

** 1/4" hexagonal drive*



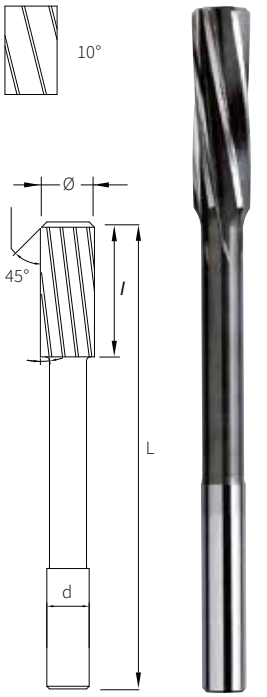


ALESATORI, FRESE FRONTALI E UTENSILI SALDOBRASATI

REAMERS, END MILLS AND BRAZED TOOLS

ALESATORI A MACCHINA HSS-CO
A CODOLO CILINDRICO
HSS-CO machine reamers

29020 **HSS-CO 5%** **DIN 212/2B**



Confezione
Packaging



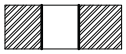
Ø g6	d h9	l mm	L mm	pcs.	z	cod.	€ cad/each
3	3,0	15	61	1	6	290200300	**31,215**
4	4,0	19	75	1	6	290200400	**31,123**
5	5,0	23	86	1	6	290200500	**33,268**
6	6,0	26	93	1	6	290200600	**33,858**
7	7,0	30	109	1	6	290200700	**40,067**
8	8,0	32	117	1	6	290200800	**41,399**
9	9,0	36	125	1	6	290200900	**52,340**
10	10,0	38	133	1	6	290201000	**48,866**
11	10,0	41	142	1	8	290201100	**70,008**
12	10,0	44	151	1	8	290201200	**74,814**
13	10,0	44	151	1	8	290201300	**83,463**
14	12,5	47	160	1	8	290201400	**86,198**
15	12,5	50	162	1	8	290201500	**89,008**
16	12,5	52	170	1	8	290201600	**93,296**
17	14,0	54	175	1	8	290201700	**117,839**
18	14,0	56	182	1	8	290201800	**120,573**
19	16,0	58	189	1	10	290201900	**142,013**
20	16,0	60	195	1	10	290202000	**136,026**

Applicazioni
Applications


Acciaio
Steel


Metalli
Metals


Olio
Oil


H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.

Suitable for finishing operations, insidethrough holes with H7 tolerance.

ALESATORI A MACCHINA HSS-CO
A CODOLO CILINDRICO
HSS-CO machine reamers

29021 HSS-CO 5% DIN 212/2C



Per centri a controllo numerico CNC
For CNC numerical control centers



Confezione
Packaging



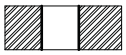
Ø g6	d h9	l mm	L mm	pcs.	z	cod.	€ cad/each
3	3,0	15	61	1	6	290210300	**36,798**
4	4,0	19	75	1	6	290210400	**50,381**
5	5,0	23	86	1	6	290210500	**52,097**
6	6,0	26	93	1	6	290210600	**54,525**
7	7,0	30	109	1	6	290210700	**60,885**
8	8,0	32	117	1	6	290210800	**64,959**
9	9,0	36	125	1	6	290210900	**67,187**
10	10,0	38	133	1	6	290211000	**78,038**
11	10,0	41	142	1	8	290211100	**103,263**
12	10,0	44	151	1	8	290211200	**116,412**
13	10,0	44	151	1	8	290211300	**103,143**
14	12,5	47	160	1	8	290211400	**128,796**
16	12,5	52	170	1	8	290211600	**151,785**
18	14,0	56	182	1	8	290211800	**209,456**
20	16,0	60	195	1	10	290212000	**217,531**

Applicazioni
Applications


Acciaio
Steel


Metalli
Metals


Olio
Oil


H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.
Suitable for finishing operations, insidethrough holes with H7 tolerance.

Consigli d'uso

Per evitare un'usura precoce dell'utensile, è buona norma fare ruotare l'alesatore sempre e solo nel verso corretto di rotazione e lavorare con uno spessore corretto di sovrametallo da asportare. Di seguito si riporta lo spessore di sovrametallo consigliato:

Use tips

Please always rotate the reamer according to the correct sense of rotation to prevent early tool wear. Please refer to the previous table to learn the right removable stock thickness to be used.

Diametro foro (mm) *Hole diameter (mm)*	Spessore consigliato di sovrametallo (mm) *Removable stock thichness (mm)*
Ø ≤ 4	**0,1**
4 < Ø ≤ 11	**0,2**
11 < Ø ≤ 38	**0,3**
40 < Ø ≤ 50	**0,4**

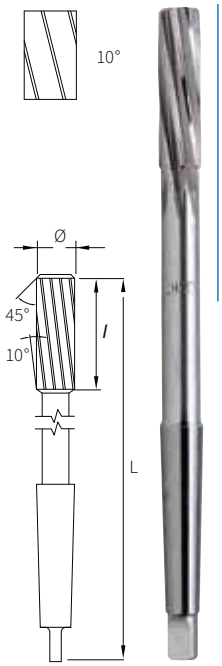
Lo spessore di sovrametallo non deve essere troppo limitato, perché in tal modo l'alesatore comprime il materiale invece di tagliarlo. D'altro canto lo spessore non deve essere troppo elevato, perché l'utensile rischia di incollarsi e/o il foro generato risulta sottodimensionato.

Fori sottodimensionati si ottengono anche con velocità e avanzamenti troppo bassi o con apporti troppo limitati di lubrorefrigerante, mentre fori sovradimensionati si ottengono con parametri di taglio troppo elevati. Parametri di lavoro scorretti generano tra l'altro anche fori con una cattiva finitura.

If the removable stock thickness is too little, the reamer compresses the work-piece material instead of cutting it; on the other hand, if the removable stock thickness is too high, the tool tries to stick and/or the hole you produce is too little.

You'll produce little holes also with low cutting parameters (low cutting speed, low feed, low lubricant content), whereas you'll drill bigger holes than expected if you use high cutting parameters. Please use the recommended cutting parameters to avoid any bad finishing.

29026 HSS-CO 5% DIN 208 B

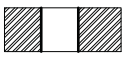


Confezione
Packaging



Ø g6	M.K.	l mm	L mm	z	pcs.	cod.	€ cad/each
5	1	23	133	6	1	290260500	**47,858**
6	1	26	138	6	1	290260600	**46,470**
7	1	31	150	6	1	290260700	**47,170**
8	1	33	156	6	1	290260800	**47,858**
9	1	36	162	6	1	290260900	**48,558**
10	1	38	168	6	1	290261000	**49,245**
11	1	41	175	8	1	290261100	**52,711**
12	1	44	182	8	1	290261200	**54,798**
13	1	44	182	8	1	290261300	**56,875**
14	1	47	189	8	1	290261400	**63,805**
15	2	50	204	8	1	290261500	**72,135**
16	2	52	210	8	1	290261600	**78,376**
17	2	54	214	8	1	290261700	**79,764**
18	2	56	219	8	1	290261800	**86,007**
19	2	58	223	10	1	290261900	**90,859**
20	2	60	228	10	1	290262000	**101,267**
21	2	62	232	10	1	290262100	**103,344**

Ø g6	M.K.	l mm	L mm	z	pcs.	cod.	€ cad/each
22	2	64	237	10	1	290262200	**110,284**
23	2	66	241	10	1	290262300	**117,915**
24	3	68	268	10	1	290262400	**142,882**
25	3	68	268	10	1	290262500	**142,882**
26	3	70	273	10	1	290262600	**160,906**
27	3	71	277	10	1	290262700	**162,295**
28	3	71	277	10	1	290262800	**177,555**
30	3	73	281	10	1	290263000	**196,278**
31	3	75	285	12	1	290263100	**210,152**
32	4	77	317	12	1	290263200	**245,524**
34	4	78	321	12	1	290263400	**273,967**
35	4	78	321	12	1	290263500	**283,674**
36	4	79	325	12	1	290263600	**300,321**
38	4	81	329	12	1	290263800	**327,366**
40	4	81	329	12	1	290264000	**361,351**
45	4	83	336	12	1	290264500	**439,441**
50	4	86	344	12	1	290265000	**497,956**


H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.

Suitable for finishing operations, inside through holes with H7 tolerance.

29039 HSS DIN 311



Confezione
Packaging



Ø g6	M.K.	l mm	L mm	z	pcs.	cod.	€ cad/each
10	1	95	171	4	1	290391000	**62,820**
11	1	100	176	4	1	290391100	**68,345**
12	2	105	199	5	1	290391200	**80,077**
13	2	105	199	5	1	290391300	**84,237**
14	2	115	209	5	1	290391400	**92,490**
15	2	125	209	5	1	290391500	**102,857**
16	2	135	219	5	1	290391600	**108,314**
17	3	135	229	5	1	290391700	**122,161**
18	3	145	251	5	1	290391800	**134,029**
19	3	145	261	5	1	290391900	**151,217**
20	3	155	261	5	1	290392000	**164,381**
21	3	155	271	5	1	290392100	**169,701**

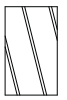
Ø g6	M.K.	l mm	L mm	z	pcs.	cod.	€ cad/each
22	3	165	271	5	1	290392200	**186,208**
23	3	165	281	5	1	290392300	**194,120**
24	3	180	281	5	1	290392400	**215,879**
25	3	180	296	5	1	290392500	**228,156**
26	3	180	296	5	1	290392600	**230,680**
27	3	195	311	5	1	290392700	**258,372**
28	3	195	311	5	1	290392800	**270,991**
30	3	195	311	5	1	290393000	**299,365**
31	3	210	326	5	1	290393100	**333,400**
32	4	210	354	5	1	290393200	**363,617**
34	4	220	364	5	1	290393400	**412,181**
36	4	220	364	5	1	290393600	**459,790**

Per alesare fori disallineati che devono essere rivettati o imbullonati insieme

Suitable for finishing operations, throught misaligned holes

ALESATORI A MANICOTTO IN HSS
CON TAGLIENTI ELICOIDALI E FORO CONICO 1:30
HSS shell reamers with taper bore 1:30

29040 HSS **DIN 219 B**







Confezione
Packaging



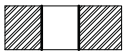
Ø g6	Ø mm foro / *hole*	*l* mm	L mm	z	pcs.	cod.	€ cad/each
30	13	32	45	10	1	290403000	**119,291**
32	16	36	50	12	1	290403200	**133,861**
34	16	36	50	12	1	290403400	**148,424**
35	16	36	50	12	1	290403500	**149,122**
36	19	40	56	12	1	290403600	**169,924**
38	19	40	56	12	1	290403800	**181,020**
40	19	40	56	12	1	290404000	**190,038**
42	19	40	56	12	1	290404200	**205,997**
45	22	45	63	12	1	290404500	**242,060**
46	22	45	63	12	1	290404600	**256,630**
48	22	45	63	12	1	290404800	**271,880**
50	22	45	63	12	1	290405000	**292,112**
52	27	50	71	12	1	290405200	**326,390**
55	27	50	71	12	1	290405500	**362,053**
58	27	50	71	12	1	290405800	**381,939**
60	27	50	71	12	1	290406000	**401,130**

Applicazioni
Applications


Acciaio
Steel


Metalli
Metals


Olio
Oil


H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi. Da utilizzare con apposito mandrino porta alesatore.

Suitable for finishing operations, inside through holes with H7 tolerance. Use with proper drill chuck.

MANDRINO PORTA ALESATORE
A MANICOTTO CON ESTRATTORE
Drill chuck for shell reamers with ejecting tool

29041 HSS **DIN 217**

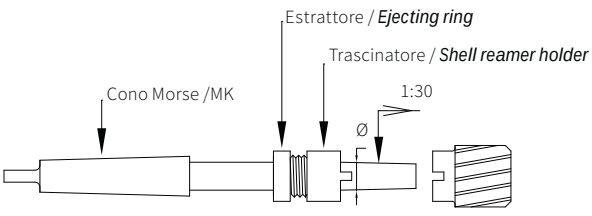




Confezione
Packaging



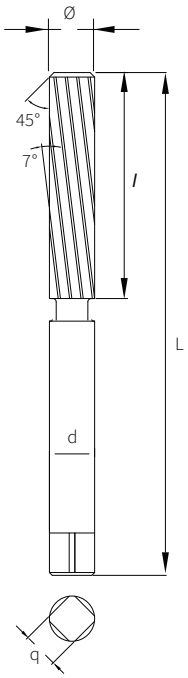
M.K.	Ø foro *mm* *Ø hole mm*	L *mm*	cod.	€ cad/each
3	13	250	290410313	**300,649**
3	16	261	290410316	**323,761**
4	19	298	290410419	**394,402**
4	22	312	290410422	**444,815**
5	27	359	290410527	**641,868**



ALESATORI A MANO IN HSS
A CODOLO CILINDRICO
HSS hand reamers

29001 | HSS | **DIN 206 B**



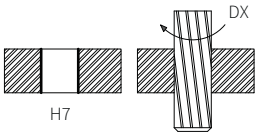




Confezione
Packaging



Ø g6	d e9	q *mm*	*l* *mm*	L *mm*	*z*	pcs.	cod.	€ cad/each
4	4	3,0	38	76	6	1	290010400	**26,743**
5	5	3,8	44	87	6	1	290010500	**30,644**
6	6	4,9	47	93	6	1	290010600	**33,059**
7	7	5,5	54	107	6	1	290010700	**37,097**
8	8	6,2	58	115	6	1	290010800	**40,318**
9	9	7,0	62	124	6	1	290010900	**44,355**
10	10	8,0	66	133	6	1	290011000	**49,186**
11	11	9,0	71	142	8	1	290011100	**66,118**
12	12	9,0	76	152	8	1	290011200	**72,573**
13	13	10,0	76	152	8	1	290011300	**79,024**
14	14	11,0	81	163	8	1	290011400	**88,697**
15	15	12,0	81	163	8	1	290011500	**96,761**
16	16	12,0	87	175	8	1	290011600	**108,864**
17	17	13,0	87	175	8	1	290011700	**110,473**
18	18	14,5	93	188	8	1	290011800	**112,083**
19	19	14,5	93	188	10	1	290011900	**117,732**
20	20	16,0	100	201	10	1	290012000	**138,691**
21	21	16,0	100	201	10	1	290012100	**139,495**
22	22	18,0	107	215	10	1	290012200	**154,816**
23	23	18,0	107	215	10	1	290012300	**163,684**
24	24	18,0	115	231	10	1	290012400	**191,108**
25	25	20,0	115	231	10	1	290012500	**191,914**
26	26	20,0	115	231	10	1	290012600	**213,687**
27	27	22,0	124	247	10	1	290012700	**229,815**
28	28	22,0	124	247	10	1	290012800	**254,811**
30	30	24,0	124	247	10	1	290013000	**279,807**
32	32	24,0	133	265	12	1	290013200	**328,188**
34	34	26,0	142	284	12	1	290013400	**379,790**
35	35	29,0	142	284	12	1	290013500	**400,758**
36	36	29,0	142	284	12	1	290013600	**416,081**
38	38	29,0	152	305	12	1	290013800	**483,809**
40	40	32,0	152	305	12	1	290014000	**525,737**



Per operazioni di calibratura, lavori di manutenzione o riparazione di fori passanti in tolleranza H7.

Suitable for gauging operations, maintenance and recovery of through holes with H7 tolerance.

Applicazioni
Applications


Acciaio
Steel


Metalli
Metals

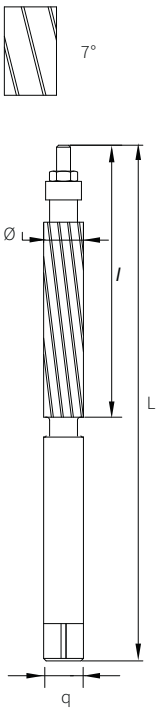

Olio
Oil

Sovrametallo consigliato / *Recommended removable stock*

Diametro foro (mm) *Hole diameter (mm)*	Spessore consigliato di sovrametallo (mm) *Removable stock thichness (mm)*
Ø ≤ 11	**0,2**
11 < Ø ≤ 38	**0,3**
Ø = 40	**0,4**

29006 HSS **DIN 859/B**

Piccola espansione 1/100 del diametro nominale
Adjustable hand reamer 1/100 nominal diameter

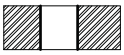




Confezione
Packaging

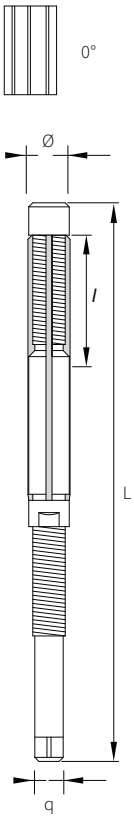


Ø mm	d e9	q mm	l mm	L mm	z	pcs.	cod.	€ cad/each
4	4	3,0	24	76	6	1	29006001	**146,735**
5	5	3,8	30	87	6	1	29006002	**148,390**
6	6	4,9	33	93	6	1	29006003	**149,727**
7	7	5,5	38	107	9	1	29006004	**182,575**
8	8	6,2	42	115	9	1	29006005	**180,792**
9	9	7,0	46	124	9	1	29006006	**193,588**
10	10	8,0	50	133	9	1	29006007	**200,018**
11	11	9,0	51	142	9	1	29006008	**238,405**
12	12	9,0	56	152	9	1	29006009	**225,798**
13	13	10,0	56	152	9	1	29006010	**260,558**
14	14	11,0	61	163	9	1	29006011	**267,813**
15	15	12,0	61	163	9	1	29006012	**281,374**
16	16	12,0	67	175	9	1	29006013	**349,871**
19	19	14,5	68	188	9	1	29006014	**370,880**
20	20	16,0	75	201	9	1	29006015	**381,891**
22	22	18,0	82	215	12	1	29006016	**455,862**
24	24	18,0	85	231	12	1	29006017	**501,633**
25	25	20,0	85	231	12	1	29006018	**502,017**
30	30	24,0	94	247	12	1	29006019	**649,197**
33	33	26,0	99	265	12	1	29006020	**1.025,564**
38	38	29,0	111	305	12	1	29006021	**1.265,289**


H7

29005 HSS

Grande espansione, lame corte
Expanding hand reamer short type

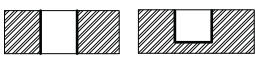




Confezione
Packaging



Ø Capacità Ø Range	q mm	l mm	L mm	z	pcs.	cod.	€ cad/each
6,4-7,2	3,0	32	110	4	1	29005001	**208,935**
7,2-8	3,4	32	110	4	1	29005002	**211,277**
8-9	3,8	34	115	5	1	29005003	**213,618**
9-10	4,3	34	115	5	1	29005004	**225,062**
10-11	4,9	34	115	5	1	29005005	**234,037**
11-12	4,9	35	125	5	1	29005006	**231,500**
12-13,5	6,2	41	135	5	1	29005007	**261,478**
13,5-15,5	7,0	50	146	5	1	29005008	**285,603**
15,5-18	8,0	60	166	5	1	29005009	**288,009**
18-21	9,0	65	178	5	1	29005010	**315,970**
21-24	11,0	76	195	5	1	29005011	**389,779**
24-27,5	12,0	82	218	5	1	29005012	**416,050**
27,5-31,5	14,5	86	245	5	1	29005013	**499,220**
31,5-37	18,0	98	280	6	1	29005014	**682,274**
37-45	20,0	108	325	6	1	29005015	**881,652**
45-55	26,0	118	370	6	1	29005016	**1.191,447**
55-65	32,0	125	400	6	1	29005017	**1.551,881**
67-80	39,0	140	435	8	1	29005018	**2.183,596**


H7 H7

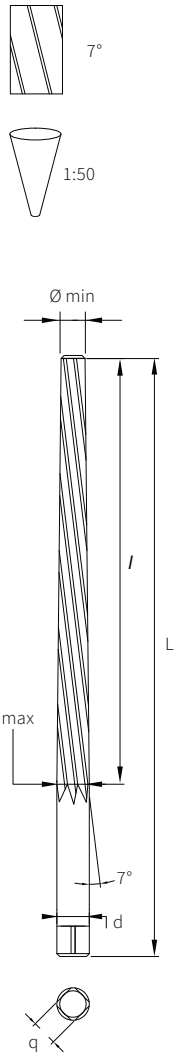
Per eseguire riparazioni e lavorazioni leggere in fori ciechi e/o passanti in tolleranza H7.

Suitable for recovery and light works inside blind and/or through holes with H7 tolerance.

ALESATORI A MANO IN HSS A CODOLO CILINDRICO, CONICITÀ 1:50, PER FORI DI SPINE CONICHE

Taper pin hand reamers, taper 1:50

29010 HSS **DIN 9 B**

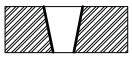




Confezione
Packaging



Ø mm	Ø min mm	Ø max mm	q mm	l mm	L mm	z	pcs.	cod.	€ cad/each
4	3,90	5,25	4,00	68	93	5	1	290100400	**48,122**
5	4,90	6,36	5,00	73	100	5	1	290100500	**48,885**
6	5,90	8,00	6,30	105	135	6	1	290100600	**59,586**
8	7,90	10,80	8,00	145	180	7	1	290100800	**91,670**
10	9,90	13,40	10,00	175	215	7	1	290101000	**113,061**
12	11,80	16,00	11,20	210	255	7	1	290101200	**154,308**
16	15,80	20,40	14,00	230	280	9	1	290101600	**236,050**
20	19,80	24,80	18,00	250	310	9	1	290102000	**328,481**



Per operazioni di alesatura in fori di spine coniche con tolleranza H7.
Scaricare ripetutamente i trucioli durante la lavorazione.

Suitable for reaming in taper pin holes with H7 tolerance.
Please remove the chips while reaming.

Applicazioni
Applications


Acciaio
Steel


Metalli
Metals


Olio
Oil

Serie corta
Short serie

24150 VHM DIN 6527 K



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	50	3	2	1	241500200	**31,115**
3	6	50	4	2	1	241500300	**31,918**
4	6	54	5	2	1	241500400	**32,419**
5	6	54	6	2	1	241500500	**33,036**
6	6	54	7	2	1	241500600	**34,364**
8	8	58	9	2	1	241500800	**41,096**
10	10	66	11	2	1	241501000	**63,522**
12	12	73	12	2	1	241501200	**93,093**
14	14	75	14	2	1	241501400	**129,234**
16	16	82	16	2	1	241501600	**148,949**
18	18	84	18	2	1	241501800	**227,803**
20	20	92	20	2	1	241502000	**243,137**

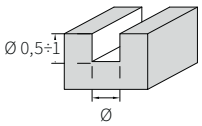


24152 VHM TiAlN DIN 6527 K



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	50	3	2	1	241520200	**35,782**
3	6	50	4	2	1	241520300	**36,705**
4	6	54	5	2	1	241520400	**37,282**
5	6	54	6	2	1	241520500	**37,992**
6	6	54	7	2	1	241520600	**39,518**
8	8	58	9	2	1	241520800	**47,261**
10	10	66	11	2	1	241521000	**73,050**
12	12	73	12	2	1	241521200	**107,057**
14	14	75	14	2	1	241521400	**148,619**
16	16	82	16	2	1	241521600	**171,291**
18	18	84	18	2	1	241521800	**261,973**
20	20	92	20	2	1	241522000	**279,607**

Fresa per cave
Slot end mills



Serie extra lunga
Extra long serie

24151 VHM NORMA KRINO
Krino norm



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	2	1	241510300	**53,005**
4	4	75	25	2	1	241510400	**58,474**
5	5	75	30	2	1	241510500	**61,267**
6	6	75	30	2	1	241510600	**68,475**
8	8	100	40	2	1	241510800	**115,740**
10	10	100	40	2	1	241511000	**139,875**
12	12	150	45	2	1	241511200	**215,201**
14	14	150	45	2	1	241511400	**273,170**
16	16	150	65	2	1	241511600	**362,481**
18	18	150	65	2	1	241511800	**432,184**
20	20	150	65	2	1	241512000	**488,039**

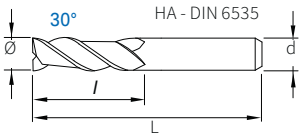


Confezione
Packaging

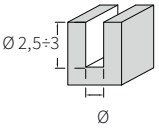
24153 VHM TiAlN NORMA KRINO
Krino norm



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	2	1	241530300	**71,076**
4	4	75	25	2	1	241530400	**78,424**
5	5	75	30	2	1	241530500	**82,195**
6	6	75	30	2	1	241530600	**86,521**
8	8	100	40	2	1	241530800	**152,413**
10	10	100	40	2	1	241531000	**192,451**
12	12	150	45	2	1	241531200	**299,129**
14	14	150	45	2	1	241531400	**358,656**
16	16	150	65	2	1	241531600	**475,915**
18	18	150	65	2	1	241531800	**536,950**
20	20	150	65	2	1	241532000	**606,342**



Fresa per cave
Slot end mills



Applicazioni
Applications

R < 850 N/mm²

Acciaio *Steel*
Alluminio *Aluminum Si 3÷12%*
Emulsione *Lubrificant*
Ghisa *Cast Iron HB30<200*
a secco *dry*

FRESE FRONTALI A 3 TAGLIENTI
IN METALLO DURO INTEGRALE
Three flutes carbide end mills

Serie lunga
Long serie

24161 VHM DIN 6527 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	57	7	3	1	241610300	**43,262**
4	6	57	8	3	1	241610400	**41,289**
5	6	57	10	3	1	241610500	**41,289**
6	6	57	10	3	1	241610600	**41,289**
8	8	63	16	3	1	241610800	**50,722**
9	10	72	16	3	1	241610900	**72,239**
10	10	72	19	3	1	241611000	**73,722**
12	12	83	22	3	1	241611200	**107,891**
14	14	83	22	3	1	241611400	**140,147**
16	16	92	26	3	1	241611600	**176,041**
18	18	92	26	3	1	241611800	**251,077**
20	20	104	32	3	1	241612000	**276,501**

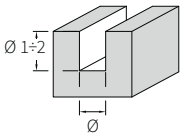
24163 VHM TiAlN DIN 6527 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	57	7	3	1	241630300	**50,616**
4	6	57	8	3	1	241630400	**48,319**
5	6	57	10	3	1	241630500	**48,319**
6	6	57	10	3	1	241630600	**48,319**
8	8	63	16	3	1	241630800	**63,323**
9	10	72	16	3	1	241630900	**91,154**
10	10	72	19	3	1	241631000	**92,048**
12	12	83	22	3	1	241631200	**134,492**
14	14	83	22	3	1	241631400	**174,741**
16	16	92	26	3	1	241631600	**213,993**
18	18	92	26	3	1	241631800	**301,294**
20	20	104	32	3	1	241632000	**336,101**



Fresa per cave
Slot end mills



Serie extra lunga
Extra long serie

24162 VHM NORMA KRINO
Krino norm



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	3	1	241620300	**49,655**
4	4	75	25	3	1	241620400	**54,459**
5	5	75	30	3	1	241620500	**60,065**
6	6	75	30	3	1	241620600	**78,485**
8	8	100	40	3	1	241620800	**100,910**
10	10	100	40	3	1	241621000	**132,944**
12	12	150	45	3	1	241621200	**195,496**
16	16	150	65	3	1	241621600	**364,705**
20	20	150	65	3	1	241622000	**479,702**



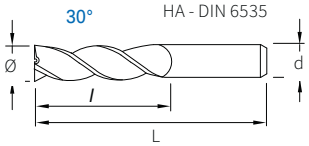
Confezione
Packaging



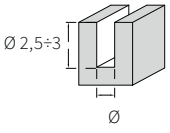
24164 VHM TiAlN NORMA KRINO
Krino norm



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	3	1	241640300	**68,752**
4	4	75	25	3	1	241640400	**75,405**
5	5	75	30	3	1	241640500	**83,169**
6	6	75	30	3	1	241640600	**108,671**
8	8	100	40	3	1	241640800	**139,722**
10	10	100	40	3	1	241641000	**184,077**
12	12	150	45	3	1	241641200	**263,919**
16	16	150	65	3	1	241641600	**492,352**
20	20	150	65	3	1	241642000	**647,599**



Fresa per cave
Slot end mills



Applicazioni
Applications

R < 850 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum Si 3÷12%*
Emulsione *Lubrificant*
Ghisa *Cast Iron HB30<200*
a secco *dry*

FRESE FRONTALI A 3 TAGLIENTI IN METALLO DURO INTEGRALE
RIV. TIALN ATTACCO HB-DIN 6535
Four and three flutes carbide end mills TiAlN coated

Minifresa
Mini end mills

24181 | VHM | **TiAlN** | **NORMA KRINO** Carbide



Ø e8	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
0,5	3	38	1,5	3	1	241810050	**32,365**
1	3	38	2	3	1	241810100	**29,462**
1,5	3	38	2	3	1	241810150	**29,462**
2	6	38	4	3	1	241810200	**33,170**
2,5	6	38	5	3	1	241810250	**35,434**
3	6	38	5	3	1	241810300	**33,170**
3,5	6	38	6	3	1	241810350	**35,434**
4	6	38	7	3	1	241810400	**34,183**
4,5	6	38	8	3	1	241810450	**38,948**
5	6	38	8	3	1	241810500	**37,518**
6	6	38	8	3	1	241810600	**37,518**
8	8	43	11	3	1	241810800	**51,869**
10	10	50	13	3	1	241811000	**74,917**
12	12	55	15	3	1	241811200	**90,401**

Applicazioni
Applications

R < 850 N/mm²

Acciaio *Steel*

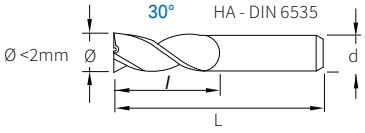
Metalli *Metals*

R > 750 N/mm²

Inox *Stainless*

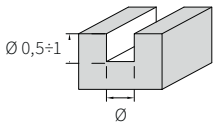
Alluminio *Aluminum Si 3÷12%*

Emulsione *Lubrificant*





Mini fresa per cave
Mini slot end mills



Serie lunga
Long serie

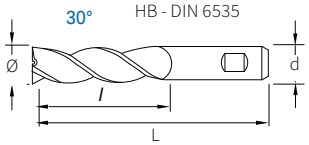
24184 | VHM | **TiAlN** | **DIN 6527 L** Carbide



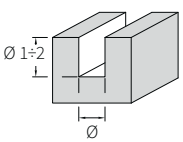
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	57	6	3	1	241840200	**56,983**
3	6	57	7	3	1	241840300	**56,983**
4	6	57	8	3	1	241840400	**54,542**
5	6	57	10	3	1	241840500	**54,542**
6	6	57	10	3	1	241840600	**54,542**
8	8	63	16	3	1	241840800	**70,507**
9	10	72	16	3	1	241840900	**97,690**
10	10	72	19	3	1	241841000	**101,072**
12	12	83	22	3	1	241841200	**144,081**
14	14	83	22	3	1	241841400	**185,839**
16	16	92	26	3	1	241841600	**232,255**
18	18	92	26	3	1	241841800	**327,106**
20	20	104	32	3	1	241842000	**364,462**



Confezione
Packaging



Fresa per cave
Slot end mills



R < 850 N/mm²

Applicazioni
Applications

Metalli *Metals*

Alluminio *Aluminum Si 3÷12%*

Emulsione *Lubrificant*

Ghisa *Cast Iron HB30<200*

a secco *dry*

FRESE FRONTALI A 4 TAGLIENTI
IN METALLO DURO INTEGRALE
Four flutes carbide end mills

24165 VHM DIN 6527 K



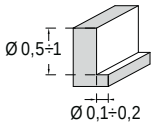
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	50	4	4	1	241650200	**37,447**
3	6	50	5	4	1	241650300	**33,797**
4	6	54	8	4	1	241650400	**30,302**
5	6	54	9	4	1	241650500	**30,302**
6	6	54	10	4	1	241650600	**33,630**
8	8	58	12	4	1	241650800	**42,355**
10	10	66	14	4	1	241651000	**64,605**
12	12	73	16	4	1	241651200	**96,599**
14	14	75	18	4	1	241651400	**124,464**
16	16	82	22	4	1	241651600	**160,493**
18	18	84	24	4	1	241651800	**237,494**
20	20	92	26	4	1	241652000	**252,203**

24167 VHM TiAlN DIN 6527 K



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	50	4	4	1	241670200	**43,097**
3	6	50	5	4	1	241670300	**38,896**
4	6	54	8	4	1	241670400	**36,349**
5	6	54	9	4	1	241670500	**36,349**
6	6	54	10	4	1	241670600	**44,116**
8	8	58	12	4	1	241670800	**63,022**
10	10	66	14	4	1	241671000	**92,434**
12	12	73	16	4	1	241671200	**119,744**
14	14	75	18	4	1	241671400	**159,657**
16	16	82	22	4	1	241671600	**205,874**
18	18	84	24	4	1	241671800	**304,609**
20	20	92	26	4	1	241672000	**323,516**

Finitura
Finishing



Serie lunga
Long serie

24166 VHM DIN 6527 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	57	7	4	1	241660200	**49,481**
3	6	57	8	4	1	241660300	**42,060**
4	6	57	11	4	1	241660400	**38,641**
5	6	57	13	4	1	241660500	**38,069**
6	6	57	13	4	1	241660600	**37,977**
8	8	63	19	4	1	241660800	**46,571**
9	10	72	19	4	1	241660900	**83,006**
10	10	72	22	4	1	241661000	**74,003**
12	12	83	26	4	1	241661200	**100,479**
14	14	83	26	4	1	241661400	**143,296**
16	16	92	32	4	1	241661600	**173,755**
18	18	92	32	4	1	241661800	**244,267**
20	20	104	38	4	1	241662000	**268,314**

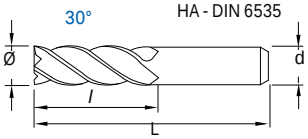
24168 VHM TiAlN DIN 6527 L



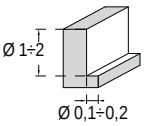
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	57	7	4	1	241680200	**56,861**
3	6	57	8	4	1	241680300	**48,902**
4	6	57	11	4	1	241680400	**46,327**
5	6	57	13	4	1	241680500	**45,708**
6	6	57	13	4	1	241680600	**52,519**
8	8	63	19	4	1	241680800	**75,805**
9	10	72	19	4	1	241680900	**105,294**
10	10	72	22	4	1	241681000	**106,742**
12	12	83	26	4	1	241681200	**138,997**
14	14	83	26	4	1	241681400	**172,008**
16	16	92	32	4	1	241681600	**213,893**
18	18	92	32	4	1	241681800	**302,891**
20	20	104	38	4	1	241682000	**340,667**

Confezione
Packaging





Finitura
Finishing



Applicazioni
Applications

R < 850 N/mm²

Acciaio *Steel*

R < 1000 N/mm²

Metalli *Metals*

Alluminio *Aluminum Si 3÷12%*

Emulsione *Lubrificant*

Ghisa *Cast Iron HB30<200*

a secco *dry*

Serie lunga
Long serie

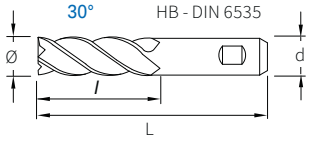
24183 VHM TiAlN

DIN 6527 L
Carbide

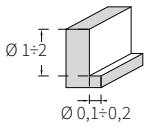




Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	2	57	7	4	1	241830200	**58,241**
3	3	57	8	4	1	241830300	**50,820**
4	4	57	11	4	1	241830400	**49,310**
5	5	57	13	4	1	241830500	**49,310**
6	6	57	13	4	1	241830600	**49,310**
8	8	63	19	4	1	241830800	**62,534**
9	9	72	19	4	1	241830900	**99,434**
10	10	72	22	4	1	241831000	**92,404**
12	12	83	26	4	1	241831200	**128,279**
14	14	83	26	4	1	241831400	**175,196**
16	16	92	32	4	1	241831600	**211,433**
18	18	92	32	4	1	241831800	**307,190**
20	20	104	38	4	1	241832000	**336,711**



Finitura
Finishing



Serie lunga
Long serie

24182 VHM TiAlN

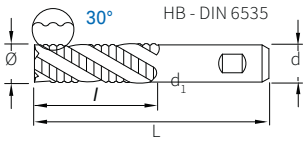
DIN 6527 L
Carbide





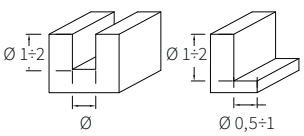
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	57	13	4	1	241820600	**134,830**
8	8	63	19	4	1	241820800	**154,224**
10	10	72	22	4	1	241821000	**168,836**
12	12	83	26	4	1	241821200	**200,259**
14	14	83	26	4	1	241821400	**279,922**
16	16	92	32	4	1	241821600	**380,401**
18	18	92	32	4	1	241821800	**422,993**
20	20	104	38	4	1	241822000	**464,691**

Rompitruciolo tipo NRF
Chip-breaker NRF type



Fresa per cave
Slot end mills

Sgrossatura
Roughing



Confezione
Packaging



Applicazioni
Applications

R < 1200 N/mm²



Acciaio
Steel

R < 750 N/mm²



Inox
Stainless



Alluminio
Aluminum Si > 5%



Emulsione
Lubrificant



Ghisa
Cast Iron HB30<200



a secco
dry

FRESE FRONTALI A 4 TAGLIENTI A ELICA VARIABILE IN METALLO DURO INTEGRALE

Four flutes carbide end mills with variable helix

Serie lunga
Long serie

24169 VHM DIN 6527 L



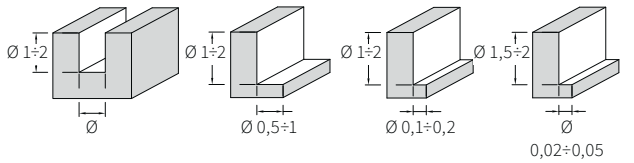
Ø h10	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	3,7	57	11	4	1	241690400	**46,790**
5	6	4,7	57	13	4	1	241690500	**46,790**
6	6	5,5	57	13	4	1	241690600	**45,835**
8	8	7,5	63	19	4	1	241690800	**53,473**
10	10	9,2	72	22	4	1	241691000	**89,762**
12	12	11,2	83	26	4	1	241691200	**127,955**
14	14	13,2	83	26	4	1	241691400	**173,789**
16	16	15,0	92	32	4	1	241691600	**211,986**
18	18	17,0	92	32	4	1	241691800	**305,564**
20	20	19,0	104	38	4	1	241692000	**353,309**

24171 VHM TiAlN DIN 6527 L



Ø h10	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	3,7	57	11	4	1	241710400	**53,135**
5	6	4,7	57	13	4	1	241710500	**53,135**
6	6	5,5	57	13	4	1	241710600	**64,685**
8	8	7,5	63	19	4	1	241710800	**89,328**
10	10	9,2	72	22	4	1	241711000	**135,533**
12	12	11,2	83	26	4	1	241711200	**172,496**
14	14	13,2	83	26	4	1	241711400	**232,561**
16	16	15,0	92	32	4	1	241711600	**298,787**
18	18	17,0	92	32	4	1	241711800	**412,758**
20	20	19,0	104	38	4	1	241712000	**465,122**

Fresa per cave *Slot end mills* | Sgrossatura *Roughing* | Finitura *Finishing* | Superfinitura *Superfinishing*



Serie extra lunga
Extra long serie

24170 VHM NORMA KRINO
Krino norm

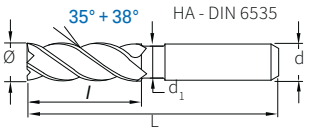


Ø mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	€ cad/each
10	10	9,2	100	40	4	1	241701000	**182,079**
12	12	11,2	150	45	4	1	241701200	**291,327**
14	14	13,2	150	45	4	1	241701400	**386,007**
16	16	15,0	150	65	4	1	241701600	**517,104**
18	18	17,0	150	65	4	1	241701800	**582,652**
20	20	19,0	150	65	4	1	241702000	**680,973**



Confezione
Packaging

Eliche variabili 35°-38°
Variable helix 35°-38°

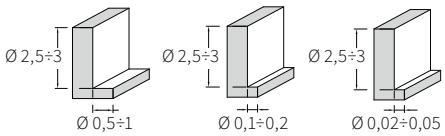


24172 VHM TiAlN NORMA KRINO
Krino norm



Ø mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	€ cad/each
10	10	9,2	100	40	4	1	241721000	**223,172**
12	12	11,2	150	45	4	1	241721200	**320,612**
14	14	13,2	150	45	4	1	241721400	**568,008**
16	16	15,0	150	65	4	1	241721600	**588,784**
18	18	17,0	150	65	4	1	241721800	**852,012**
20	20	19,0	150	65	4	1	241722000	**830,855**

Sgrossatura *Roughing* | Finitura *Finishing* | Superfinitura *Superfinishing*



Applicazioni
Applications

R < 1600 N/mm²
Acciaio *Steel*

R > 750 N/mm²
Inox *Stainless*

Alluminio *Aluminum Si 3÷12%*

Emulsione *Lubrificant*

Ghisa *Cast Iron HB30<200*

a secco *dry*

FRESE FRONTALI A 4 TAGLIENTI A ELICA VARIABILE IN METALLO DURO INTEGRALE - SPECIALI PER INOX

Four flutes carbide end mills with variable helix

Serie lunga
Long serie

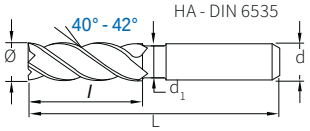
24174 | VHM | TiAlN | DIN 6527 L Carbide

Speciale inox / *Stainless steel*



Ø h10	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	3,7	57	11	4	1	241740400	**75,744**
5	6	4,7	57	13	4	1	241740500	**75,744**
6	6	5,5	57	13	4	1	241740600	**92,688**
8	8	7,5	63	19	4	1	241740800	**129,563**
10	10	9,2	72	22	4	1	241741000	**193,349**
12	12	11,2	83	26	4	1	241741200	**247,167**
16	16	15,0	92	32	4	1	241741600	**426,563**
20	20	19,0	104	38	4	1	241742000	**657,783**

HA - DIN 6535







Confezione
Packaging

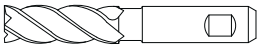
24175 | VHM | TiAlN | DIN 6527 L Carbide

Speciale inox / *Stainless steel*

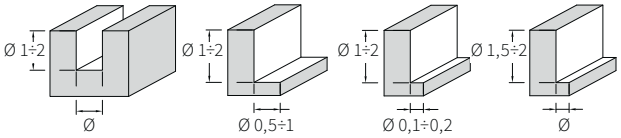


Ø h10	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	3,7	57	11	4	1	241750400	**78,242**
5	6	4,7	57	13	4	1	241750500	**78,242**
6	6	5,5	57	13	4	1	241750600	**95,744**
8	8	7,5	63	19	4	1	241750800	**133,835**
10	10	9,2	72	22	4	1	241751000	**199,722**
12	12	11,2	83	26	4	1	241751200	**255,315**
16	16	15,0	92	32	4	1	241751600	**440,625**
20	20	19,0	104	38	4	1	241752000	**679,468**

HB - DIN 6535



Fresa per cave *Slot end mills* | Sgrossatura *Roughing* | Finitura *Finishing* | Superfinitura *Superfinishing*



Applicazioni
Applications

R < 750 N/mm²
Inox *Stainless*

R < 1000 N/mm²
Acciaio *Steel*

Alluminio *Aluminum Si <3%*

Emulsione *Lubrificant*

Ghisa *Cast Iron HB30<200*

a secco *dry*

FRESE FRONTALI A 6 E PIÙ TAGLIENTI PER SUPERFINITURA IN METALLO DURO INTEGRALE RIV. TIALN

Two-flutes carbide end mills

Serie lunga
Long serie

24177 VHM TiAlN ≈ DIN 6527 L



Per materiali con HRC < 50 / *Suitable for materials with HRC < 50*

Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	57	8	6	1	241770300	**64,820**
4	6	57	11	6	1	241770400	**61,410**
5	6	57	13	6	1	241770500	**58,851**
6	6	57	13	6	1	241770600	**58,851**
8	8	63	19	6	1	241770800	**69,938**
10	10	72	22	6	1	241771000	**112,582**
12	12	83	26	6	1	241771200	**151,815**
14	14	83	26	6	1	241771400	**208,106**
16	16	92	32	6	1	241771600	**272,926**
18	18	92	32	8	1	241771800	**318,983**
20	20	104	38	8	1	241772000	**383,515**
25	25	121	45	10	1	241772500	**630,298**

24185 VHM TiAlN ≈ DIN 6527 L

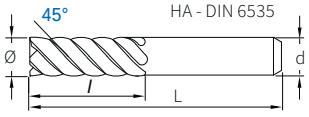


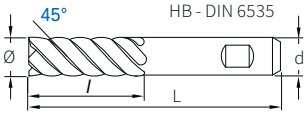
Per materiali con HRC < 50 / *Suitable for materials with HRC < 50*

Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	57	13	6	1	241850600	**64,533**
8	8	63	19	6	1	241850800	**76,740**
10	10	72	22	6	1	241851000	**122,089**
12	12	83	26	6	1	241851200	**162,202**
14	14	83	26	6	1	241851400	**226,736**
16	16	92	32	6	1	241851600	**287,779**
18	18	92	32	8	1	241851800	**338,360**
20	20	104	38	8	1	241852000	**415,101**
25	25	121	45	10	1	241852500	**676,719**



Confezione
Packaging



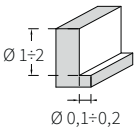


Applicazioni
Applications

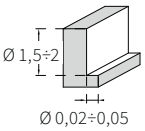
R < 750 N/mm² **R < 1600 N/mm²**

Inox *Stainless* · Acciaio *Steel* · Alluminio *Aluminum Si 3÷12%* · Emulsione *Lubrificant* · Ghisa *Cast Iron HB30<200* · a secco *dry*

Finitura *Finishing*



Superfinitura *Superfinishing*



Serie extra lunga
Extra long serie

24178 VHM TiAlN NORMA KRINO
Krino norm

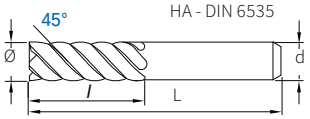


Confezione
Packaging

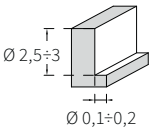


Per materiali con HRC < 50 / *Suitable for materials with HRC < 50*

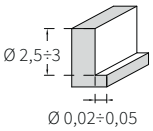
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	75	30	6	1	241780600	**91,232**
8	8	100	40	6	1	241780800	**106,126**
10	10	100	40	6	1	241781000	**188,048**
12	12	150	45	6	1	241781200	**260,659**
16	16	150	65	6	1	241781600	**469,189**
20	20	150	65	8	1	241782000	**714,953**
25	25	150	75	10	1	241782500	**1.459,231**



Finitura *Finishing*



Superfinitura *Superfinishing*



Applicazioni
Applications

R < 750 N/mm² **R < 1600 N/mm²**

Inox *Stainless* · Acciaio *Steel* · Alluminio *Aluminum Si 3÷12%* · Emulsione *Lubrificant* · Ghisa *Cast Iron HB30<200* · a secco *dry*

FRESE FRONTALI A 6 E PIÙ TAGLIENTI PER SUPERFINITURA IN METALLO DURO INTEGRALE RIV. TIALN

Two-flutes carbide end mills

Serie lunga
Long serie

24186 VHM TiAlN ≈ DIN 6527 L





Confezione
Packaging



Per materiali con HRC < 62 / *Suitable for materials with HRC < 62*

Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	57	8	6	1	241860300	**94,874**
4	6	57	11	6	1	241860400	**97,469**
5	6	57	13	6	1	241860500	**99,749**
6	6	57	13	6	1	241860600	**100,248**
8	8	63	19	6	1	241860800	**121,587**
10	10	72	22	6	1	241861000	**195,495**
12	12	83	26	6	1	241861200	**263,027**
14	14	83	26	6	1	241861400	**352,487**
16	16	92	32	6	1	241861600	**486,531**
18	18	92	32	8	1	241861800	**513,834**
20	20	104	38	8	1	241862000	**659,640**

Applicazioni
Applications



Acciaio
Steel
HRC<62



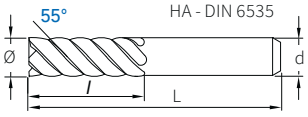
Emulsione
Lubrificant

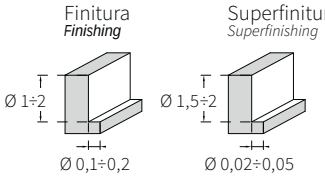


Ghisa
Cast Iron
HB30<200



a secco
dry





Serie lunga
Long serie

24176 VHM TiAlN ≈ DIN 6527 L



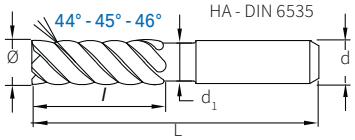


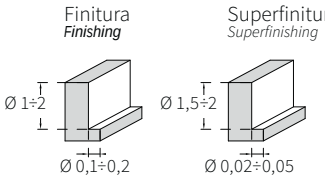
Confezione
Packaging



Universle - Elica variabile / *Universal - Variable helix*

Ø h10	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	€ cad/each
8	8	7,5	63	19	6	1	241760800	**116,488**
10	10	9,2	72	22	6	1	241761000	**186,973**
12	12	11,2	83	26	6	1	241761200	**251,299**
16	16	15,0	92	32	6	1	241761600	**450,594**
20	20	19,0	104	38	6	1	241762000	**649,733**
25	25	23,5	121	45	6	1	241762500	**1.047,193**





Applicazioni
Applications

R < 750 N/mm²



Inox
Stainless

R < 1600 N/mm²



Acciaio
Steel



Alluminio
Aluminum
Si 3÷12%



Emulsione
Lubrificant



Ghisa
Cast Iron
HB30<200



a secco
dry

Serie corta
Short serie

24154 VHM **DIN 6527 K**



Confezione
Packaging

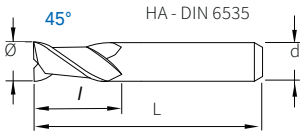


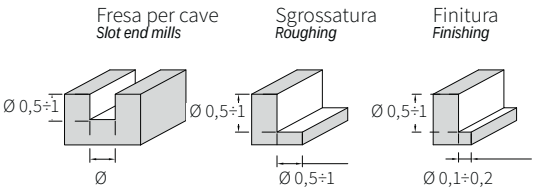
Ø e8	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	50	4	2	1	241540300	**33,371**
4	6	54	5	2	1	241540400	**33,371**
5	6	54	6	2	1	241540500	**33,371**
6	6	54	7	2	1	241540600	**33,371**
8	8	58	9	2	1	241540800	**40,043**
10	10	66	11	2	1	241541000	**53,905**
12	12	73	12	2	1	241541200	**85,990**
14	14	75	14	2	1	241541400	**119,362**
16	16	82	16	2	1	241541600	**128,345**
18	18	84	18	2	1	241541800	**174,550**
20	20	92	20	2	1	241542000	**231,022**

Applicazioni
Applications

Alluminio
Aluminum Si<12%

Emulsione
Lubrificant





Serie extra lunga
Extra long serie

24155 VHM **NORMA KRINO**
Krino norm



Confezione
Packaging

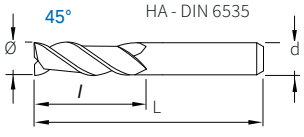


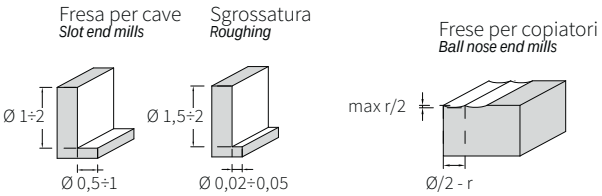
Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
5	5	75	30	2	1	241550500	**65,329**
6	6	75	30	2	1	241550600	**88,712**
8	8	100	40	2	1	241550800	**107,222**
10	10	100	40	2	1	241551000	**150,317**
12	12	150	45	2	1	241551200	**236,565**
16	16	150	65	2	1	241551600	**433,704**

Applicazioni
Applications

Alluminio
Aluminum Si<3%

Emulsione
Lubrificant





Nella lavorazione di alluminio, superleghe di titanio e quando ci sia pericolo di incollaggio trucioli si consiglia l'uso di fresatura concorde, che è anche indicata nel caso di lavorazioni di spessori sottili, perché le forze di taglio aiutano a tenere saldo il pezzo in lavorazione.

When machining aluminum, titanium superalloys and whenever there is a risk of chip bonding, we recommend the use of concordant milling, which is also suitable for thin-wall machining, because the cutting forces help to keep the workpiece firmly in place.

Serie lunga
Long serie

24180 VHM NORMA KRINO
Krino norm

Metallo duro
Carbide



Confezione
Packaging



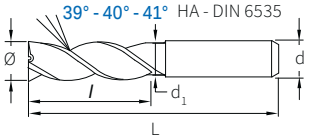
Speciale alluminio / *Aluminium* — **HA**

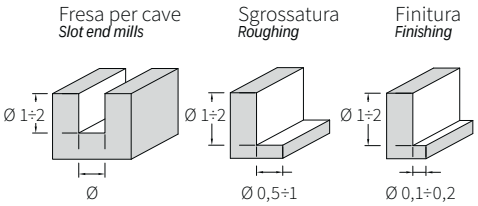
Ø h10	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	2,7	57	8	3	1	241800300	**60,005**
4	6	3,7	57	11	3	1	241800400	**60,917**
5	6	4,7	57	13	3	1	241800500	**61,210**
6	6	5,5	57	13	3	1	241800600	**58,600**
8	8	7,5	63	16	3	1	241800800	**77,267**
10	10	9,2	72	19	3	1	241801000	**108,027**
12	12	11,2	83	22	3	1	241801200	**155,925**
16	16	11,2	92	32	3	1	241801600	**266,697**
20	20	19,0	104	38	3	1	241802000	**423,882**

Applicazioni
Applications

Alluminio
Aluminum

Emulsione
Lubricant





Le eliche variabili garantiscono minori vibrazioni, migliore finitura, maggiore rendimento.
The variable helix ensures less vibration, better finishing, higher efficiency.

Serie lunga
Long serie

24156 VHM ~ DIN 6527 L

Taglienti raggiati
Corner radius



Confezione
Packaging



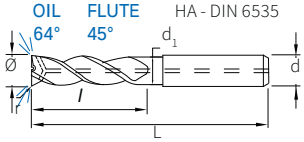
Canalina di lubrorefrigerazione / *Cooling System*

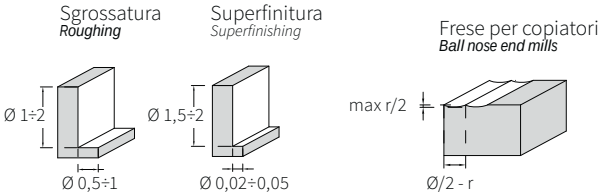
Ø h10	d mm	d_1 mm	L mm	l mm	r mm	z	pcs.	cod.	€ cad/each
6	6	5,7	57	10	1	3	1	241560600	**90,902**
8	8	7,7	63	16	1	3	1	241560800	**102,265**
10	10	9,5	72	19	1,5	3	1	241561000	**181,806**
12	12	11,5	83	22	1,5	3	1	241561200	**263,618**
16	16	15,5	92	26	2	3	1	241561600	**420,424**
20	20	19,5	104	32	2,5	3	1	241562000	**595,412**

Applicazioni
Applications

Alluminio
Aluminum
Si<12%

Emulsione
Lubricant





Serie lunga
Long serie

24157 VHM DIN 6527 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	57	6	2	1	241570200	**46,862**
3	6	57	7	2	1	241570300	**46,547**
4	6	57	8	2	1	241570400	**45,506**
5	6	57	10	2	1	241570500	**46,547**
6	6	57	10	2	1	241570600	**45,506**
8	8	63	16	2	1	241570800	**54,158**
10	10	72	19	2	1	241571000	**69,108**
12	12	83	22	2	1	241571200	**103,225**
14	14	83	22	2	1	241571400	**132,740**
16	16	92	26	2	1	241571600	**163,188**
18	18	92	26	2	1	241571800	**196,207**
20	20	104	32	2	1	241572000	**260,114**

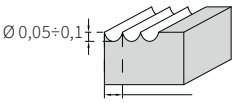


24159 VHM TiAlN DIN 6527 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	57	6	2	1	241590200	**62,016**
3	6	57	7	2	1	241590300	**57,309**
4	6	57	8	2	1	241590400	**57,309**
5	6	57	10	2	1	241590500	**57,309**
6	6	57	10	2	1	241590600	**57,309**
8	8	63	16	2	1	241590800	**68,252**
10	10	72	19	2	1	241591000	**87,110**
12	12	83	22	2	1	241591200	**130,062**
14	14	83	22	2	1	241591400	**167,264**
16	16	92	26	2	1	241591600	**205,615**
18	18	92	26	2	1	241591800	**247,186**
20	20	104	32	2	1	241592000	**327,742**

Frese per copiatori
Ball nose end mills



Serie extra lunga
Extra Long seriel

24158 VHM NORMA KRINO
Krino norm



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	2	1	241580300	**81,999**
4	4	75	25	2	1	241580400	**83,798**
5	5	75	30	2	1	241580500	**93,741**
6	6	75	30	2	1	241580600	**104,585**
8	8	100	40	2	1	241580800	**119,028**
10	10	100	40	2	1	241581000	**160,500**
12	12	150	45	2	1	241581200	**212,717**



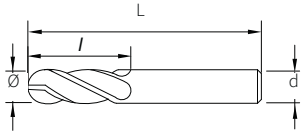


Confezione
Packaging

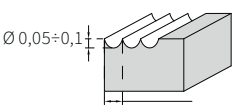
24160 VHM TiAlN NORMA KRINO
Krino norm



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	3	75	20	2	1	241600300	**117,258**
4	4	75	25	2	1	241600400	**119,878**
5	5	75	30	2	1	241600500	**134,051**
6	6	75	30	2	1	241600600	**149,535**
8	8	100	40	2	1	241600800	**170,259**
10	10	100	40	2	1	241601000	**229,515**
12	12	150	45	2	1	241601200	**304,252**



Frese per copiatori
Ball nose end mills



Applicazioni
Applications

R < 850 N/mm²

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum
Si 3÷12%

Emulsione
Lubrificant

Serie lunga
Long serie

24179 | VHM | **TiAlN** | **DIN 6528**



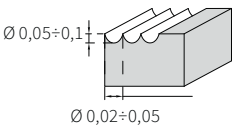


Confezione
Packaging



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	4	50	11	4	1	241790400	**54,028**
5	5	50	13	4	1	241790500	**58,415**
6	6	57	13	4	1	241790600	**60,236**
8	8	63	19	4	1	241790800	**75,844**
10	10	72	22	4	1	241791000	**104,484**
12	12	83	26	4	1	241791200	**142,706**
14	14	83	26	4	1	241791400	**175,616**
16	16	92	32	4	1	241791600	**221,781**
18	18	92	32	4	1	241791800	**280,209**
20	20	104	38	4	1	241792000	**344,061**

Frese per copiatori
Ball nose end mills



Applicazioni
Applications

R < 1200 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum Si 3÷12%*
Emulsione *Lubrificant*
Ghisa *Cast Iron HB30<200*
a secco *dry*

FRESE FRONTALI CILINDRICHE A 2 TAGLIENTI IN HSS-CO 8% CON ATTACCO WELDON

HSS-CO 8% two flutes end mills, Weldon shank

Serie corta

Short serie

24001 HSS-CO 8% DIN 327 D



Ø	tol.	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	e8	6	48	4	2	1	240010200	**15,730**
2,5	e8	6	49	5	2	1	240010250	**16,977**
3	e8	6	49	5	2	1	240010300	**15,730**
3,5	h10	6	51	7	2	1	240010350	**16,903**
4	e8	6	51	7	2	1	240010400	**15,730**
4,5	h10	6	52	8	2	1	240010450	**16,903**
5	e8	6	52	8	2	1	240010500	**15,730**
5,5	h10	6	52	8	2	1	240010550	**16,903**
6	e8	6	52	8	2	1	240010600	**15,730**
6,5	h10	10	60	10	2	1	240010650	**24,321**
7	e8	10	60	10	2	1	240010700	**24,321**
7,5	h10	10	61	11	2	1	240010750	**24,321**
8	e8	10	61	11	2	1	240010800	**22,583**
8,5	h10	10	61	11	2	1	240010850	**24,321**
9	h10	10	61	11	2	1	240010900	**24,321**
9,5	h10	10	63	13	2	1	240010950	**24,321**
10	e8	10	63	13	2	1	240011000	**22,583**
11	h10	12	73	16	2	1	240011100	**32,281**
12	e8	12	73	16	2	1	240011200	**30,063**
13	h10	12	73	16	2	1	240011300	**34,774**
14	e8	12	73	16	2	1	240011400	**34,082**
15	h10	12	79	19	2	1	240011500	**41,085**
16	e8	16	79	19	2	1	240011600	**41,702**
18	e8	16	79	19	2	1	240011800	**50,014**
20	e8	20	88	22	2	1	240012000	**59,713**

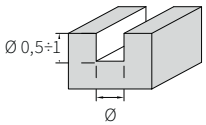


24003 HSS-CO 8% TiAlN DIN 327 D



Ø	tol.	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	e8	6	48	4	2	1	240030200	**23,976**
2,5	e8	6	49	5	2	1	240030250	**26,466**
3	e8	6	49	5	2	1	240030300	**24,107**
3,5	h10	6	51	7	2	1	240030350	**24,894**
4	e8	6	51	7	2	1	240030400	**23,131**
4,5	h10	6	52	8	2	1	240030450	**25,357**
5	e8	6	52	8	2	1	240030500	**22,999**
5,5	h10	6	52	8	2	1	240030550	**24,500**
6	e8	6	52	8	2	1	240030600	**22,402**
6,5	h10	10	60	10	2	1	240030650	**31,249**
7	e8	10	60	10	2	1	240030700	**31,066**
7,5	h10	10	61	11	2	1	240030750	**32,817**
8	e8	10	61	11	2	1	240030800	**29,815**
8,5	h10	10	61	11	2	1	240030850	**32,192**
9	h10	10	61	11	2	1	240030900	**33,146**
9,5	h10	10	63	13	2	1	240030950	**34,196**
10	e8	10	63	13	2	1	240031000	**34,556**
11	h10	12	73	16	2	1	240031100	**42,422**
12	e8	12	73	16	2	1	240031200	**39,982**
13	h10	12	73	16	2	1	240031300	**46,082**
14	e8	12	73	16	2	1	240031400	**43,506**
15	h10	12	79	19	2	1	240031500	**51,170**
16	e8	16	79	19	2	1	240031600	**57,325**
18	e8	16	79	19	2	1	240031800	**65,187**
20	e8	20	88	22	2	1	240032000	**79,003**

Fresa per cave
Slot end mills



Serie lunga

Long serie

24002 HSS-CO 8% DIN 844 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	56	12	2	1	240020300	**25,492**
4	6	63	19	2	1	240020400	**25,492**
5	6	68	24	2	1	240020500	**25,492**
6	6	68	24	2	1	240020600	**25,492**
8	10	88	38	2	1	240020800	**35,882**
10	10	95	45	2	1	240021000	**35,882**
12	12	110	53	2	1	240021200	**47,660**
14	12	110	53	2	1	240021400	**55,116**
16	16	123	63	2	1	240021600	**67,365**
18	16	123	63	2	1	240021800	**89,603**
20	20	141	75	2	1	240022000	**100,583**



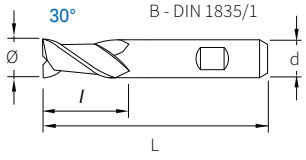
Confezione
Packaging



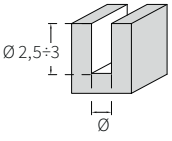
24004 HSS-CO 8% TiAlN DIN 844 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	56	12	2	1	240040300	**35,854**
4	6	63	19	2	1	240040400	**36,694**
5	6	68	24	2	1	240040500	**36,694**
6	6	68	24	2	1	240040600	**35,089**
8	10	88	38	2	1	240040800	**46,082**
10	10	95	45	2	1	240041000	**46,379**
12	12	110	53	2	1	240041200	**58,956**
14	12	110	53	2	1	240041400	**76,351**
16	16	123	63	2	1	240041600	**101,197**
18	16	123	63	2	1	240041800	**121,075**
20	20	141	75	2	1	240042000	**140,200**



Fresa per cave
Slot end mills



Applicazioni
Applications

Acciaio *Steel* | Metalli *Metals* | Emulsione *Lubrificant* | Ghisa *Cast Iron HB30<200* | a secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

FRESE FRONTALI CILINDRICHE A 3 TAGLIENTI IN HSS-CO 8% CON ATTACCO WELDON

HSS-CO 8% three flutes end mills, Weldon shank

Serie corta
Short serie

24009 HSS-CO 8% DIN 844 K



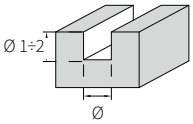
Ø e8	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	52	13	3	1	240090300	**18,481**
4	6	55	13	3	1	240090400	**18,481**
5	6	57	13	3	1	240090500	**18,481**
6	6	57	13	3	1	240090600	**18,546**
8	10	69	19	3	1	240090800	**25,155**
10	10	72	22	3	1	240091000	**24,576**
12	12	79	22	3	1	240091200	**32,641**
14	12	83	26	3	1	240091400	**41,126**
16	16	92	32	3	1	240091600	**46,624**
18	16	92	32	3	1	240091800	**60,161**
20	20	104	38	3	1	240092000	**68,715**

24011 HSS-CO 8% TiAlN DIN 844 K



Ø e8	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	52	13	3	1	240110300	**25,355**
4	6	55	13	3	1	240110400	**25,355**
5	6	57	13	3	1	240110500	**25,355**
6	6	57	13	3	1	240110600	**24,251**
8	10	69	19	3	1	240110800	**31,611**
10	10	72	22	3	1	240111000	**31,938**
12	12	79	22	3	1	240111200	**42,395**
14	12	83	26	3	1	240111400	**50,329**
16	16	92	32	3	1	240111600	**59,656**
18	16	92	32	3	1	240111800	**71,841**
20	20	104	38	3	1	240112000	**83,895**

Fresa per cave
Slot end mills



Serie lunga
Long serie

24010 HSS-CO 8% DIN 844 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	56	12	3	1	240100300	**29,571**
4	6	63	19	3	1	240100400	**29,571**
5	6	68	24	3	1	240100500	**29,571**
6	6	68	24	3	1	240100600	**24,107**
8	10	88	38	3	1	240100800	**33,932**
10	10	95	45	3	1	240101000	**33,932**
12	12	110	53	3	1	240101200	**46,624**
14	12	110	53	3	1	240101400	**59,265**
16	16	123	63	3	1	240101600	**65,192**
18	16	123	63	3	1	240101800	**80,643**
20	20	141	75	3	1	240102000	**98,443**

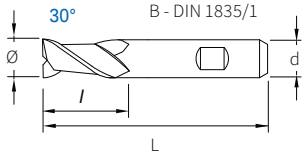
Confezione
Packaging



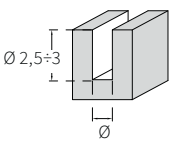
24012 HSS-CO 8% TiAlN DIN 844 L



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	56	12	3	1	240120300	**34,326**
4	6	63	19	3	1	240120400	**34,326**
5	6	68	24	3	1	240120500	**34,326**
6	6	68	24	3	1	240120600	**32,748**
8	10	88	38	3	1	240120800	**41,815**
10	10	95	45	3	1	240121000	**43,066**
12	12	110	53	3	1	240121200	**57,190**
14	12	110	53	3	1	240121400	**74,677**
16	16	123	63	3	1	240121600	**89,615**
18	16	123	63	3	1	240121800	**111,480**
20	20	141	75	3	1	240122000	**126,452**



Fresa per cave
Slot end mills



Applicazioni
Applications

Acciaio *Steel* | Metalli *Metals* | Emulsione *Lubrificant* | Ghisa *Cast Iron HB30<200* | a secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI IN HSS-CO 8% CON ATTACCO WELDON

HSS-CO 8% four flutes end mills, Weldon shank

Serie corta
Short serie

24013 HSS-CO 8% DIN 844 K

Universale / *Universal*



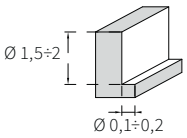
Ø k10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	52	8	4	1	240130300	**18,546**
4	6	55	11	4	1	240130400	**18,546**
5	6	57	13	4	1	240130500	**18,546**
6	6	57	13	4	1	240130600	**18,546**
7	10	66	16	4	1	240130700	**27,061**
8	10	69	19	4	1	240130800	**25,155**
9	10	69	19	4	1	240130900	**27,061**
10	10	72	22	4	1	240131000	**25,155**
12	12	83	26	4	1	240131200	**35,112**
14	12	83	26	4	1	240131400	**44,425**
16	16	92	32	4	1	240131600	**47,840**
18	16	92	32	4	1	240131800	**62,539**
20	20	104	38	4	1	240132000	**72,238**
22	20	104	38	6	1	240132200	**87,744**

24015 HSS-CO 8% TiAlN DIN 844 K



Ø k10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	52	8	4	1	240150300	**28,625**
4	6	55	11	4	1	240150400	**27,239**
5	6	57	13	4	1	240150500	**27,239**
6	6	57	13	4	1	240150600	**27,035**
7	10	66	16	4	1	240150700	**37,178**
8	10	69	19	4	1	240150800	**35,515**
9	10	69	19	4	1	240150900	**36,912**
10	10	72	22	4	1	240151000	**35,588**
12	12	83	26	4	1	240151200	**47,118**
14	12	83	26	4	1	240151400	**57,262**
16	16	92	32	4	1	240151600	**69,911**
18	16	92	32	4	1	240151800	**84,091**
20	20	104	38	4	1	240152000	**95,221**
22	20	104	38	6	1	240152200	**117,111**

Finitura
Finishing



Serie lunga
Long serie

24014 HSS-CO 8% DIN 844 L

Universale / *Universal*



Ø k10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	63	19	4	1	240140400	**25,769**
5	6	68	24	4	1	240140500	**25,769**
6	6	68	24	4	1	240140600	**25,769**
8	10	88	38	4	1	240140800	**36,273**
10	10	95	45	4	1	240141000	**36,273**
12	12	110	53	4	1	240141200	**50,634**
14	12	110	53	4	1	240141400	**61,030**
16	16	123	63	4	1	240141600	**74,528**
18	16	123	63	4	1	240141800	**92,237**
20	20	141	75	4	1	240142000	**104,412**

Confezione
Packaging

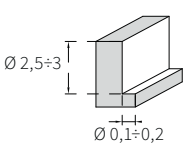


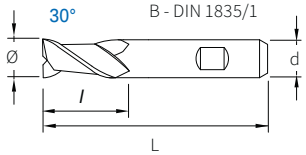
24016 HSS-CO 8% TiAlN DIN 844 L



Ø k10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
4	6	63	19	4	1	240160400	**37,370**
5	6	68	24	4	1	240160500	**36,741**
6	6	68	24	4	1	240160600	**35,247**
8	10	88	38	4	1	240160800	**47,704**
10	10	95	45	4	1	240161000	**49,263**
12	12	110	53	4	1	240161200	**63,565**
14	12	110	53	4	1	240161400	**80,347**
16	16	123	63	4	1	240161600	**100,795**
18	16	123	63	4	1	240161800	**119,965**
20	20	141	75	4	1	240162000	**129,893**

Finitura
Finishing





Applicazioni
Applications

Acciaio *Steel* · Metalli *Metals* · Emulsione *Lubrificant* · Ghisa *Cast Iron HB30<200* · a secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI A SGROSSARE IN HSS-CO 8% CON ATTACCO WELDON

HSS-CO 8% four flutes end mills, Weldon shank for roughing purpose

Serie corta
Short serie

24017 HSS-CO 8% DIN 844 K



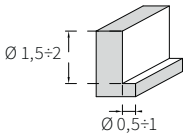
Ø k12	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	57	13	4	1	240170600	**36,369**
8	10	69	19	4	1	240170800	**41,173**
10	10	72	22	4	1	240171000	**41,173**
12	12	79	22	4	1	240171200	**50,599**
14	12	83	26	4	1	240171400	**58,391**
16	16	92	32	4	1	240171600	**66,071**
18	16	92	32	4	1	240171800	**74,154**
20	20	104	38	4	1	240172000	**93,805**

24019 HSS-CO 8% TiAlN DIN 844 K



Ø k12	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	57	13	4	1	240190600	**45,298**
8	10	69	19	4	1	240190800	**52,165**
10	10	72	22	4	1	240191000	**59,245**
12	12	79	22	4	1	240191200	**63,195**
14	12	83	26	4	1	240191400	**72,229**
16	16	92	32	4	1	240191600	**86,450**
18	16	92	32	4	1	240191800	**94,567**
20	20	104	38	4	1	240192000	**116,536**

Sgrossatura
Roughing



Serie lunga
Long serie

24018 HSS-CO 8% DIN 844 L



Ø k12	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	68	24	4	1	240180600	**51,096**
8	10	88	38	4	1	240180800	**52,520**
10	10	95	45	4	1	240181000	**53,873**
12	12	110	53	4	1	240181200	**71,782**
14	12	110	53	4	1	240181400	**71,945**
16	16	123	63	4	1	240181600	**90,467**
18	16	123	63	4	1	240181800	**109,443**
20	20	141	75	4	1	240182000	**120,326**
22	20	141	75	4	1	240182200	**205,510**
25	25	166	90	4	1	240182500	**244,770**
28	25	166	90	4	1	240182800	**280,985**

Confezione
Packaging

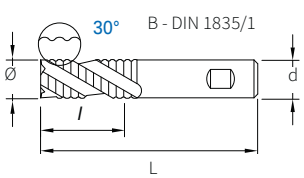


24020 HSS-CO 8% TiAlN DIN 844 L

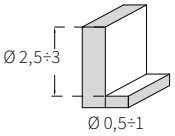


Ø k12	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	68	24	4	1	240200600	**58,203**
8	10	88	38	4	1	240200800	**64,548**
10	10	95	45	4	1	240201000	**64,726**
12	12	110	53	4	1	240201200	**89,384**
14	12	110	53	4	1	240201400	**86,637**
16	16	123	63	4	1	240201600	**113,649**
18	16	123	63	4	1	240201800	**134,020**
20	20	141	75	4	1	240202000	**162,203**
22	20	141	75	4	1	240202200	**252,311**
25	25	166	90	4	1	240202500	**310,678**
28	25	166	90	4	1	240202800	**352,224**

Rompitruciolo tipo NR
Chip-breaker NR type



Sgrossatura
Roughing



Applicazioni
Applications

Acciaio *Steel* | Metalli *Metals* | Emulsione *Lubrificant* | Ghisa *Cast Iron HB30<200* | a secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200, acciai molto duri con R<1000 N/mm².
Steel and metals with R<850 N/mm², cast iron with HB30<200, hard steel with R<1000 N/mm².

FRESE FRONTALI CIL. A 4 TAGLIENTI PER SEMIFINITURA IN HSS-CO 8% CON ATTACCO WELDON

HSS-CO 8% four flutes end mills, Weldon shank for finishing purpose

Serie corta
Short serie

24021 HSS-CO 8% DIN 844 K



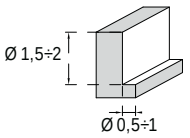
Ø k12	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	57	13	4	1	240210600	**50,900**
8	10	69	19	4	1	240210800	**53,596**
10	10	72	22	4	1	240211000	**65,909**
12	12	83	26	4	1	240211200	**72,995**
14	12	83	26	4	1	240211400	**87,396**
16	16	92	32	4	1	240211600	**100,208**
18	16	92	32	4	1	240211800	**105,814**
20	20	104	38	4	1	240212000	**120,486**

24023 HSS-CO 8% TiAlN DIN 844 K



Ø k12	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	57	13	4	1	240230600	**60,185**
8	10	69	19	4	1	240230800	**64,659**
10	10	72	22	4	1	240231000	**75,512**
12	12	83	26	4	1	240231200	**85,197**
14	12	83	26	4	1	240231400	**100,801**
16	16	92	32	4	1	240231600	**120,930**
18	16	92	32	4	1	240231800	**128,485**
20	20	104	38	4	1	240232000	**142,968**

Semifinitura
semifinishing



Serie lunga
Long serie

24022 HSS-CO 8% DIN 844 L



Ø k12	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	68	24	4	1	240220600	**62,711**
8	10	88	38	4	1	240220800	**66,964**
10	10	95	45	4	1	240221000	**75,513**
12	12	110	53	4	1	240221200	**99,343**
14	12	110	53	4	1	240221400	**110,041**
16	16	123	63	4	1	240221600	**130,213**
18	16	123	63	4	1	240221800	**134,887**
20	20	141	75	4	1	240222000	**154,218**
22	20	141	75	4	1	240222200	**379,947**
25	25	166	90	4	1	240222500	**449,326**
28	25	166	90	4	1	240222800	**562,136**

Confezione
Packaging

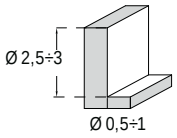


24024 HSS-CO 8% TiAlN DIN 844 L

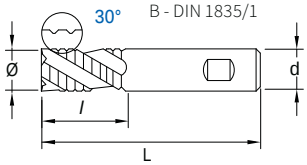


Ø k12	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
6	6	68	24	4	1	240240600	**76,390**
8	10	88	38	4	1	240240800	**80,492**
10	10	95	45	4	1	240241000	**89,840**
12	12	110	53	4	1	240241200	**118,929**
14	12	110	53	4	1	240241400	**134,605**
16	16	123	63	4	1	240241600	**156,728**
18	16	123	63	4	1	240241800	**170,238**
20	20	141	75	4	1	240242000	**192,705**
22	20	141	75	4	1	240242200	**469,361**
25	25	166	90	4	1	240242500	**566,479**
28	25	166	90	4	1	240242800	**704,209**

Semifinitura
semifinishing



Rompitruciolo tipo NF
Chip-breaker NF type



Applicazioni
Applications

Acciaio *Steel* | Metalli *Metals* | Emulsione *Lubrificant* | Ghisa *Cast Iron HB30<200* | a secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200, acciai molto duri con R<1000 N/mm².
Steel and metals with R<850 N/mm², cast iron with HB30<200, hard steel with R<1000 N/mm².

FRESE FRONTALI A RAGGIO IN HSS-CO 8% CON ATTACCO WELDON

HSS-CO 8% round edge end mills, Weldon shank

Serie corta
Short serie

24005 HSS-CO 8% DIN 327 D



Ø e8 h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	48	4	2	1	240050200	**30,089**
3	6	49	5	2	1	240050300	**29,681**
4	6	51	7	2	1	240050400	**30,089**
5	6	52	8	2	1	240050500	**29,411**
6	6	52	8	2	1	240050600	**30,089**
7	10	60	10	2	1	240050700	**39,380**
8	10	61	11	2	1	240050800	**34,814**
9	10	61	11	2	1	240050900	**39,009**
10	10	63	13	2	1	240051000	**35,986**
12	12	73	16	2	1	240051200	**47,781**
14	12	73	16	2	1	240051400	**53,359**
16	16	79	19	2	1	240051600	**61,343**
18	16	79	19	2	1	240051800	**75,564**
20	20	88	22	2	1	240052000	**81,502**

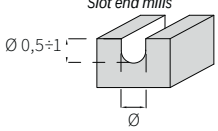


24007 HSS-CO 8% TiAlN DIN 327 D



Ø e8 h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
2	6	48	4	2	1	240070200	**40,334**
3	6	49	5	2	1	240070300	**40,131**
4	6	51	7	2	1	240070400	**38,356**
5	6	52	8	2	1	240070500	**38,872**
6	6	52	8	2	1	240070600	**39,648**
7	10	60	10	2	1	240070700	**49,543**
8	10	61	11	2	1	240070800	**46,320**
9	10	61	11	2	1	240070900	**49,514**
10	10	63	13	2	1	240071000	**46,894**
12	12	73	16	2	1	240071200	**60,165**
14	12	73	16	2	1	240071400	**64,994**
16	16	79	19	2	1	240071600	**79,422**
18	16	79	19	2	1	240071800	**88,848**
20	20	88	22	2	1	240072000	**103,763**

Frese per cave
Slot end mills



Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

Serie lunga
Long serie

24006 HSS-CO 8% NORMA KRINO
Krino norm



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	56	8	2	1	240060300	**36,803**
4	6	63	11	2	1	240060400	**36,126**
5	6	68	13	2	1	240060500	**38,429**
6	6	68	13	2	1	240060600	**36,803**
8	10	88	19	2	1	240060800	**44,288**
10	10	95	22	2	1	240061000	**46,968**
12	12	110	26	2	1	240061200	**57,730**
14	12	110	26	2	1	240061400	**65,673**
16	16	123	32	2	1	240061600	**76,576**
18	16	123	32	2	1	240061800	**94,466**
20	20	141	38	2	1	240062000	**102,659**



Confezione
Packaging

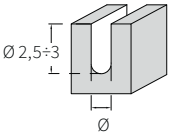


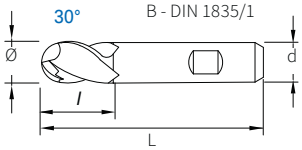
24008 HSS-CO 8% TiAlN NORMA KRINO
Krino norm



Ø h10	d mm	L mm	l mm	z	pcs.	cod.	€ cad/each
3	6	56	8	2	1	240080300	**46,082**
4	6	63	11	2	1	240080400	**46,134**
5	6	68	13	2	1	240080500	**46,894**
6	6	68	13	2	1	240080600	**46,134**
8	10	88	19	2	1	240080800	**54,523**
10	10	95	22	2	1	240081000	**59,671**
12	12	110	26	2	1	240081200	**71,818**
14	12	110	26	2	1	240081400	**80,852**
16	16	123	32	2	1	240081600	**101,181**
18	16	123	32	2	1	240081800	**121,919**
20	20	141	38	2	1	240082000	**140,486**

Fresa per cave
Slot end mills





Applicazioni
Applications

Acciaio *Steel* | Metalli *Metals* | Emulsione *Lubrificant* | Ghisa *Cast Iron HB30<200* | a secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI IN HSS-CO 5% CON ATTACCO CONICO MORSE

HSS-CO 5% Morse taper end mills

24025 HSS-CO 5% DIN 845K

Serie corta
Short serie



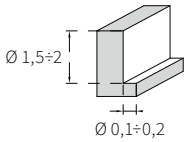


Confezione
Packaging



Ø k10	MK	M	FORM	L mm	l mm	z	pcs.	cod.	€ cad/each
16	2	M10	A	117	32	4	1	240251600	**71,805**
18	2	M10	A	117	32	4	1	240251800	**75,543**
20	2	M10	A	123	38	4	1	240252000	**85,102**
25	3	M12	A	147	45	6	1	240252500	**114,048**
28	3	M12	A	147	45	6	1	240252800	**127,784**
30	3	M12	A	147	45	6	1	240253000	**137,679**
32	4	M16	A	178	53	6	1	240253200	**166,128**
40	4	M16	A	178	63	6	1	240254000	**240,663**

Finitura
Finishing



24026 HSS-CO 5% DIN 845L

Serie lunga
Long serie

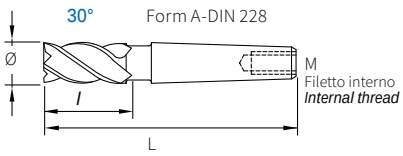




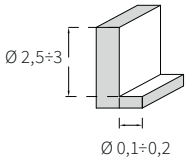
Confezione
Packaging



Ø k10	MK	M	FORM	L mm	l mm	z	pcs.	cod.	€ cad/each
16	2	M10	A	148	63	4	1	240261600	**81,425**
20	2	M10	A	160	75	4	1	240262000	**102,471**
25	3	M12	A	192	90	6	1	240262500	**152,783**
28	3	M12	A	192	90	6	1	240262800	**174,796**
32	4	M16	A	231	106	6	1	240263200	**245,041**
40	4	M16	A	250	125	6	1	240264000	**399,840**



Finitura
Finishing



Applicazioni
Applications


Acciaio *Steel*


Metalli *Metals*


Emulsione *Lubrificant*


Ghisa *Cast Iron HB30<200*


a secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI
A SGROSSARE IN HSS-CO 5% CON ATTACCO CONICO MORSE
HSS-CO 5% Morse taper end mills for roughing purpose

24029 HSS-CO 5% DIN 845K

Serie corta
Short serie



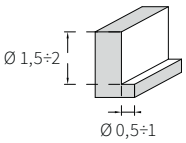


Confezione
Packaging



Ø k10	MK	M	FORM	L mm	l mm	z	pcs.	cod.	€ cad/each
16	2	M10	A	117	32	4	1	240291600	**96,663**
18	2	M10	A	117	32	4	1	240291800	**100,308**
20	2	M10	A	123	38	4	1	240292000	**119,082**
25	3	M12	A	147	45	6	1	240292500	**163,766**
28	3	M12	A	147	45	6	1	240292800	**185,409**
30	3	M12	A	147	45	6	1	240293000	**199,839**
40	4	M12	A	147	45	6	1	240294000	**555,660**

Sgrossatura
Roughing



24030 HSS-CO 5% DIN 845L

Serie lunga
Long serie



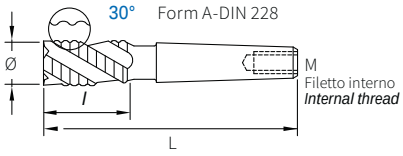


Confezione
Packaging

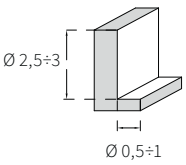


Ø k10	MK	M	FORM	L mm	l mm	z	pcs.	cod.	€ cad/each
16	2	M10	A	148	63	4	1	240301600	**129,864**
20	2	M10	A	160	75	4	1	240302000	**165,241**
25	3	M12	A	192	90	6	1	240302500	**235,216**
28	3	M12	A	192	90	6	1	240302800	**269,815**

Rompitruciolo tipo NR
Chip-breaker NR type



Sgrossatura
Roughing



Applicazioni
Applications


Acciaio *Steel*


Metalli *Metals*


Emulsione *Lubrificant*


Ghisa *Cast Iron HB30<200*


a secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

FRESA FRONTALE PER PANTOGRAFI A UN DENTE PER ALLUMINIO
One flute end mills for aluminium

26100 HSS-G

Alu

1 Dente
1 Cutting edge

Applicazioni
Applications



Alluminio *Aluminum*


Emulsione *Lubrificant*



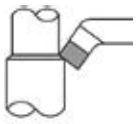
Confezione
Packaging



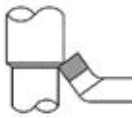
Ø mm	d mm	L mm	l mm	z	cod.	€ cad/each
3	8	60	12	1	2610003060	**24,826**
4	8	60	12	1	2610004060	**24,826**
4	8	80	14	1	2610004080	**35,068**
5	8	60	12	1	2610005060	**24,826**
5	8	80	16	1	2610005080	**35,068**
6	8	60	14	1	2610006060	**24,826**
6	8	90	16	1	2610006090	**35,068**
8	8	80	14	1	2610008080	**30,290**
8	8	100	28	1	2610008100	**38,918**
10	8	80	14	1	2610010080	**31,198**

UTENSILI DA TORNIO SALDOBRASATI CON PLACCHETTA IN METALLO DURO
Carbide brazed tools

Forma / *Shape*



R
Destro
Right



L
Sinistro
Left

Qualità metallo duro / *Carbide quality*



P30
Per accaio
Suitable for steel



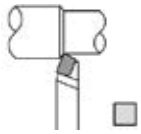
K10 - K20
Per ghisa
Suitable for cast iron

Confezione
Packaging



28200 ISO 1 DIN 4971

Utensile sgrossatore diritto per passata
Straight Turning Brazed Tools





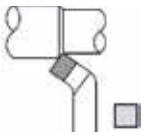


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8X8 X 80	R	P30	28200RP300808	**4,736**
8X8 X 80	R	K10	28200RK100808	**4,736**
10X10 X 90	R	P30	28200RP301010	**5,083**
10X10 X 90	R	K10	28200RK101010	**5,083**
10X10 X 90	L	P30	28200LP301010	**5,083**
12X12 X 100	R	P30	28200RP301212	**6,592**
12X12 X 100	R	K10	28200RK101212	**6,592**
12X12 X 100	L	P30	28200LP301212	**6,592**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16X16 X 110	R	P30	28200RP301616	**10,752**
16X16 X 110	R	K10	28200RK101616	**10,752**
16X16 X 110	L	P30	28200LP301616	**10,752**
20X20 X 125	R	P30	28200RP302020	**13,504**
20X20 X 125	R	K10	28200RK102020	**13,504**
20X20 X 125	L	P30	28200LP302020	**13,504**
25X25 X 140	R	P30	28200RP302525	**19,521**
25X25 X 140	R	K10	28200RK102525	**19,521**

28202 ISO 2 DIN 4972

Utensile sgrossatore piegato per passata
Bent Turning Brazed Tools





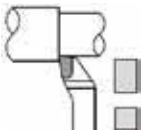


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8X8 X 80	R	P30	28202RP300808	**5,121**
8X8 X 80	L	P30	28202LP300808	**5,121**
8X8 X 80	R	K10	28202RK100808	**5,121**
8X8 X 80	L	K10	28202LK100808	**5,121**
10X10 X 90	R	P30	28202RP301010	**6,720**
10X10 X 90	L	P30	28202LP301010	**6,720**
10X10 X 90	R	K10	28202RK101010	**6,720**
10X10 X 90	L	K10	28202LK101010	**6,720**
12X12 X 100	R	P30	28202RP301212	**10,368**
12X12 X 100	L	P30	28202LP301212	**10,368**
12X12 X 100	R	K10	28202RK101212	**10,368**
12X12 X 100	L	K10	28202LK101212	**10,368**
16X16 X 110	R	P30	28202RP301616	**13,184**
16X16 X 110	L	P30	28202LP301616	**13,184**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16X16 X 110	R	K10	28202RK101616	**13,184**
16X16 X 110	L	K10	28202LK101616	**13,184**
20X20 X 125	R	P30	28202RP302020	**17,984**
20X20 X 125	L	P30	28202LP302020	**17,984**
20X20 X 125	R	K10	28202RK102020	**17,984**
20X20 X 125	L	K10	28202LK102020	**17,984**
25X25 X 140	R	P30	28202RP302525	**21,120**
25X25 X 140	L	P30	28202LP302525	**21,120**
25X25 X 140	R	K10	28202RK102525	**21,120**
25X25 X 140	L	K10	28202LK102525	**21,120**
32X32 X 170	R	P30	28202RP303232	**28,865**
32X32 X 170	L	P30	28202LP303232	**28,865**
32X32 X 170	R	K10	28202RK103232	**28,865**
32X32 X 170	L	K10	28202LK103232	**28,865**

28204 ISO 3 DIN 4978

Utensile curvo per finitura
Off Set Turning Brazed Tools For Corner Work





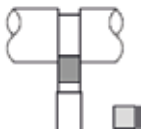


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
10X10 X 90	R	P30	28204RP301010	**4,352**
10X10 X 90	L	P30	28204LP301010	**4,352**
10X10 X 90	R	K10	28240RK101010	**4,352**
10X10 X 90	L	K10	28204LK101010	**4,352**
10X16 x 110	R	P30	28204RP301016	**9,536**
10X16 x 110	L	P30	28204LP301016	**9,408**
10X16 x 110	R	K10	28204RK101016	**9,536**
10X16 x 110	L	K10	28204LK101016	**9,408**
12X12 X 100	R	P30	28204RP301212	**5,760**
12X12 X 100	L	P30	28204LP301212	**5,760**
12X12 X 100	R	K10	28204RK101212	**5,760**
12X12 X 100	L	K10	28204LK101212	**5,760**
12X20 x 125	R	P30	28204RP301220	**14,145**
12X20 x 125	L	P30	28204LP301220	**14,145**
12X20 x 125	R	K10	28204RK101220	**14,145**
12X20 x 125	L	K10	28204LK101220	**14,145**
16X16 X 110	R	P30	28204RP301616	**9,536**
16X16 X 110	L	P30	28204LP301616	**9,536**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16X16 X 110	R	K10	28204RK101616	**9,536**
16X16 X 110	L	K10	28204LK101616	**9,536**
16X25 x 140	R	P30	28204RP301625	**17,601**
16X25 x 140	L	P30	28204LP301625	**17,601**
16X25 x 140	R	K10	28204RK101625	**17,601**
16X25 x 140	L	K10	28204LK101625	**17,601**
20X20 X 125	R	P30	28204RP302020	**11,584**
20X20 X 125	L	P30	28204LP302020	**11,584**
20X20 X 125	R	K10	28204RK102020	**11,584**
20X20 X 125	L	K10	28204LK102020	**11,584**
20X32 x 170	R	P30	28204RP302032	**29,953**
20X32 x 170	L	P30	28204LP302032	**29,953**
20X32 x 170	R	K10	28204RK102032	**29,953**
20X32 x 170	L	K10	28204LK102032	**29,953**
25X25 X 140	R	P30	28204RP302525	**16,500**
25X25 X 140	L	P30	28204LP302525	**16,500**
25X25 X 140	R	K10	28204RK102525	**16,500**
25X25 X 140	L	K10	28204LK102525	**16,500**

28206 ISO 4 DIN 4976

Utensile frontale a testa larga
Wide Face Square Nose Brazed Tools







Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8X8 x 80	R	P30	28206RP300808	**5,184**
8X8 x 80	R	K10	28206RK100808	**5,184**
10X10 x 90	R	P30	28206RP301010	**6,272**
10X10 x 90	R	K10	28206RK101010	**6,272**
12X12 x 100	R	P30	28206RP301212	**10,240**
12X12 x 100	R	K10	28206RK101212	**10,240**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16X16 x 110	R	P30	28206RP301616	**11,904**
16X16 x 110	R	K10	28206RK101616	**11,904**
20X20 x 125	R	P30	28206RP302020	**17,601**
20X20 x 125	R	K10	28206RK102020	**17,601**
25X25 x 140	R	P30	28206RP302525	**20,992**
25X25 x 140	R	K10	28206RK102525	**20,992**

28208 ISO 5 DIN 4977

Utensile piegato a spianare e intestare
Off Set face Turning Brazed Tools





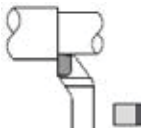


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8X8 x 80	R	P30	28208RP300808	**4,096**
8X8 x 80	L	P30	28208LP300808	**4,096**
8X8 x 80	R	K10	28208RK100808	**4,096**
8X8 x 80	L	K10	28208LK100808	**4,096**
10X10 x 90	R	P30	28208RP301010	**4,864**
10X10 x 90	L	P30	28208LP301010	**4,864**
10X10 x 90	R	K10	28208RK101010	**4,864**
10X10 x 90	L	K10	28208LK101010	**4,864**
12X12 x 100	R	P30	28208RP301212	**7,361**
12X12 x 100	L	P30	28208LP301212	**7,361**
12X12 x 100	R	K10	28208RK101212	**7,361**
12X12 x 100	L	K10	28208LK101212	**7,361**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16X16 x 110	R	P30	28208RP301616	**10,624**
16X16 x 110	L	P30	28208LP301616	**10,624**
16X16 x 110	R	K10	28208RK101616	**10,624**
16X16 x 110	L	K10	28208LK101616	**10,624**
20X20 x 125	R	P30	28208RP302020	**14,720**
20X20 x 125	L	P30	28208LP302020	**14,720**
20X20 x 125	R	K10	28208RK102020	**14,720**
20X20 x 125	L	K10	28208LK102020	**14,720**
25X25 x 140	R	P30	28208RP302525	**20,033**
25X25 x 140	L	P30	28208LP302525	**20,033**
25X25 x 140	R	K10	28208RK102525	**20,033**
25X25 x 140	L	K10	28208LK102525	**20,033**

28210 ISO 6 DIN 4980

Utensile piegato per spallamenti
Off Set Side Turning Brazed Tools





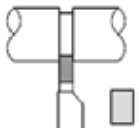


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8X8 x 80	R	P30	28210RP300808	**4,032**
8X8 x 80	L	P30	28210LP300808	**4,032**
8X8 x 80	R	K10	28210RK100808	**4,032**
8X8 x 80	L	K10	28210LK100808	**4,032**
10X10 x 90	R	P30	28210RP301010	**4,608**
10X10 x 90	L	P30	28210LP301010	**4,608**
10X10 x 90	R	K10	28210RK101010	**4,608**
10X10 x 90	L	K10	28210LK101010	**4,608**
12X12 x 100	R	P30	28210RP301212	**5,824**
12X12 x 100	L	P30	28210LP301212	**5,824**
12X12 x 100	R	K10	28210RK101212	**5,824**
12X12 x 100	L	K10	28210LK101212	**5,824**
16X16 x 110	R	P30	28210RP301616	**9,408**
16X16 x 110	L	P30	28210LP301616	**9,408**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16X16 x 110	R	K10	28210RK101616	**9,408**
16X16 x 110	L	K10	28210LK101616	**9,408**
20X20 x 125	R	P30	28210RP302020	**11,456**
20X20 x 125	L	P30	28210LP302020	**11,456**
20X20 x 125	R	K10	28210RK102020	**11,456**
20X20 x 125	L	K10	28210LK102020	**11,456**
25X25 x 140	R	P30	28210RP302525	**16,500**
25X25 x 140	L	P30	28210LP302525	**16,500**
25X25 x 140	R	K10	28210RK102525	**16,500**
25X25 x 140	L	K10	28210LK102525	**16,500**
32X32 x 170	R	P30	28210RP303232	**30,401**
32X32 x 170	L	P30	28210LP303232	**30,401**
32X32 x 170	R	K10	28210RK103232	**30,401**
32X32 x 170	L	K10	28210LK103232	**30,401**

28212 ISO 7 DIN 4981

Utensile per troncatura
Cutting Off Brazed Tools





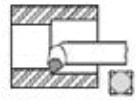


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
6x10 x 90	R	P30	28212RP300610	**5,952**
6x10 x 90	L	P30	28212LP300610	**5,952**
6x10 x 90	R	K10	28212RK100610	**5,952**
6x10 x 90	L	K10	28212LK100610	**5,952**
8x12 x 100	R	P30	28212RP300812	**6,272**
8x12 x 100	L	P30	28212LP300812	**6,272**
8x12 x 100	R	K10	28212RK100812	**6,272**
8x12 x 100	L	K10	28212LK100812	**6,272**
10X16 x 110	R	P30	28212RP301016	**8,704**
10X16 x 110	L	P30	28212LP301016	**8,704**
10X16 x 110	R	K10	28212RK101016	**8,704**
10X16 x 110	L	K10	28212LK101016	**8,704**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
12X20 x 125	R	P30	28212RP301220	**9,985**
12X20 x 125	L	P30	28212LP301220	**9,985**
12X20 x 125	R	K10	28212RK101220	**9,985**
12X20 x 125	L	K10	28212LK101220	**9,985**
16X25 x 140	R	P30	28212RP301625	**16,897**
16X25 x 140	L	P30	28212LP301625	**16,897**
16X25 x 140	R	K10	28212RK101625	**16,897**
16X25 x 140	L	K10	28212LK101625	**16,897**
20X32 x 170	R	P30	28212RP302032	**29,121**
20X32 x 170	L	P30	28212LP302032	**29,121**
20X32 x 170	R	K10	28212RK102032	**29,121**
20X32 x 170	L	K10	28212LK102032	**29,121**

28214 ISO 8 DIN 4973

Utensile ad alesare per fori passanti
Boring Brazed Tools





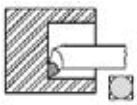


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8x8 x 125	R	P30	28214RP300808	**6,016**
8x8 x 125	R	K10	28214RK100808	**6,016**
10x10 x 150	R	P30	28214RP301010	**6,976**
10x10 x 150	R	K10	28214RK101010	**6,976**
12X12 x 180	R	P30	28214RP301212	**8,704**
12X12 x 180	R	K10	28214RK101212	**8,704**
16X16 x 210	R	P30	28214RP301616	**13,184**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16X16 x 210	R	K10	28214RK101616	**13,184**
20X20 x 250	R	P30	28214RP302020	**18,497**
20X20 x 250	R	K10	28214RK102020	**18,497**
25X25 x 300	R	P30	28214RP302525	**27,393**
25X25 x 300	R	K10	28214RK102525	**27,393**
32X32 x 355	R	P30	28214RP303232	**45,953**
32X32 x 355	R	K10	28214RK103232	**45,953**

28216 ISO 9 DIN 4974

Utensile ad alesare per fori ciechi
Internal Side Turning Brazed Tools





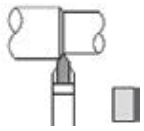


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8x8 x 125	R	P30	28216RP300808	**6,016**
8x8 x 125	R	K10	28216RK100808	**6,016**
10x10 x 150	R	P30	28216RP301010	**6,976**
10x10 x 150	R	K10	28216RK101010	**6,976**
12X12 x 180	R	P30	28216RP301212	**8,704**
12X12 x 180	R	K10	28216RK101212	**8,704**
16X16 x 210	R	P30	28216RP301616	**13,184**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16X16 x 210	R	K10	28216RK101616	**13,184**
20X20 x 250	R	P30	28216RP302020	**18,497**
20X20 x 250	R	K10	28216RK102020	**18,497**
25X25 x 300	R	P30	28216RP302525	**27,393**
25X25 x 300	R	K10	28216RK102525	**27,393**
32X32 x 355	R	P30	28216RP303232	**45,953**
32X32 x 355	R	K10	28216RK103232	**45,953**

28218 ISO 10 DIN 4975

Utensile diritto per finitura
Finishing Brazed Tools



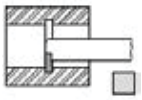


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8x8 x 80	R	P30	28218RP300808	**5,184**
10x10 x 90	R	P30	28218RP301010	**5,888**
12x12 x 100	R	P30	28218RP301212	**9,664**
16x16 x 110	R	P30	28218RP301616	**11,136**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
10x16 x 110	R	P30	28218RP301016	**8,704**
12x20 x 125	R	P30	28218RP301220	**9,985**
16X25 x 140	R	P30	28218RP301625	**15,744**

28220 ISO 11 DIN 263

Utensile per canalini interni
Internal Undercutting Brazed Tools



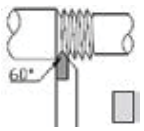


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8x8 x 125	R	P30	28220RP300808	**6,720**
10x10 x 140	R	P30	28220RP301010	**7,168**
12x12 x 160	R	P30	28220RP301212	**9,024**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16x16 x 180	R	P30	28220RP301616	**14,400**
20X20 x 210	R	P30	28220RP302020	**17,664**
25X25 x 250	R	P30	28220RP302525	**27,904**

28224 ISO 12 DIN 282

Utensile per filettatura esterna a 60°
External Threading Brazed Tools



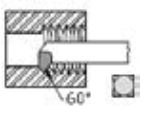


Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8x8 x 80	R	P30	28224RP300808	**4,864**
10x10 x90	R	P30	28224RP301010	**5,184**
12x12 x 100	R	P30	28224RP301212	**6,976**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16x16 x 110	R	P30	28224RP301616	**11,009**
20X20 x 125	R	P30	28224RP302020	**12,352**
25X25 x 140	R	P30	28224RP302525	**15,808**

28226 ISO 13 DIN 283

Utensile per filettatura interna a 60°
Internal Side Turning





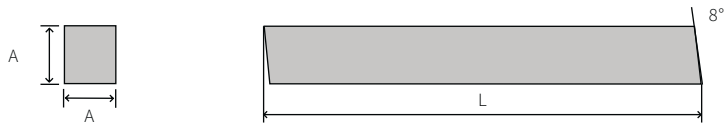
Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
8x8 x 120	R	P30	28226RP300808	**5,952**
10x10 x 140	R	P30	28226RP301010	**6,464**
12x12 x 160	R	P30	28226RP301212	**8,512**

Dimensione/ *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	€ cad/each
16x16 x 180	R	P30	28226RP301616	**12,992**
20X20 x 210	R	P30	28226RP302020	**16,577**
25X25 x 250	R	P30	28226RP302525	**25,921**

26150 HSS-CO 10% DIN 4964/B

Quadra
Square



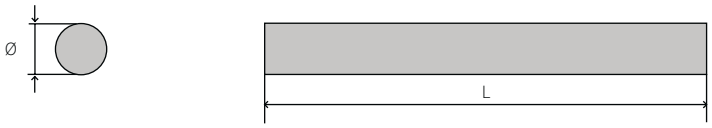


AxA h14	L mm	cod.	€ cad/each	AxA h14	L mm	cod.	€ cad/each
6 x 6	160	261500606160	**18,320**	**14 x 14**	200	261501414200	**83,875**
6 x 6	200	261500606200	**22,776**	**16 x 16**	160	261501616160	**94,578**
8 x 8	160	261500808160	**25,986**	**16 x 16**	200	261501616200	**122,860**
8 x 8	200	261500808200	**33,131**	**18 x 18**	160	261501818160	**115,480**
10 x 10	160	261501010160	**45,100**	**18 x 18**	200	261501818200	**144,789**
10 x 10	200	261501010200	**57,851**	**20 x 20**	160	261502020160	**146,850**
12 x 12	160	261501212160	**58,620**	**20 x 20**	200	261502020200	**186,577**
12 x 12	200	261501212200	**75,206**	**30 x 30**	200	261503030200	**422,008**
14 x 14	160	261501414160	**69,586**				

26152 HSS-CO 10% DIN 4964/A

Tonda
Round



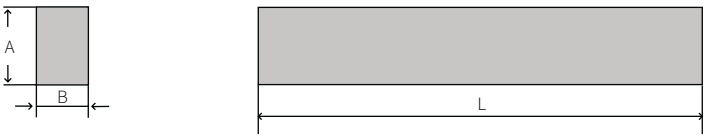


Ø h14	L mm	cod.	€ cad/each	Ø h14	L mm	cod.	€ cad/each
4,0	100	2615204100	**8,555**	**12**	160	2615212160	**51,488**
5,0	100	2615205100	**9,154**	**12**	200	2615212200	**63,965**
6,0	100	2615206100	**9,909**	**14**	160	2615214160	**61,957**
6,0	160	2615206160	**14,368**	**14**	200	2615214200	**89,193**
6,0	200	2615206200	**17,328**	**15**	200	2615215200	**89,193**
8,0	100	2615208100	**14,003**	**16**	160	2615216160	**61,957**
8,0	160	2615208160	**22,453**	**16**	200	2615216200	**89,193**
8,0	200	2615208200	**25,477**	**18**	200	2615218200	**162,978**
10,0	100	2615210100	**21,395**	**20**	160	2615220160	**138,675**
10,0	160	2615210160	**40,014**	**20**	200	2615220200	**174,724**
10,0	200	2615210200	**49,455**				

26154 HSS-CO 10% DIN 4964/D

Rettangolare
Rectangular





AxB h14	L mm	cod.	€ cad/each	AxB h14	L mm	cod.	€ cad/each
10 x 4	160	261541004160	**30,014**	**16 x 10**	200	261541610200	**84,893**
10 x 5	200	261541005200	**34,670**	**20 x 4**	200	261542004200	**63,457**
12 x 6	200	261541206200	**43,836**	**20 x 5**	200	261542005200	**63,457**
12 x 8	200	261541208200	**54,096**	**20 x 6**	200	261542006200	**70,823**
15 x 4	200	261541504200	**44,865**	**20 x 8**	200	261542008200	**82,924**
16 x 4	160	261541604160	**37,460**	**20 x 10**	200	261542010200	**95,075**
16 x 4	200	261541604200	**45,543**	**20 x 12**	200	261542012200	**105,010**

Confezione
Packaging







FRESE ROTATIVE
ROTARY BURRS

Un taglio per ogni applicazione
A cut for each application

TAGLIO 1
CUT 1



TAGLIO ALLUMINIO adatto a alluminio, magnesio, plastiche e gomma dura. Buon rendimento con un alto tasso di asportazione del materiale, che previene l'incollaggio dei trucioli.

ALUMINIUM CUT suitable for cutting into aluminium, magnesium, plastic and hard rubber. High efficiency with good removal rate, thus preventing the chips clogging the tool.

TAGLIO 3
CUT 3



TAGLIO STANDARD per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti. Velocità consigliata: 450÷600 m/min.

STANDARD CUT Standard cut in low and high tensile steel, welded points, metals. Cutting speed: 450÷600 m/min

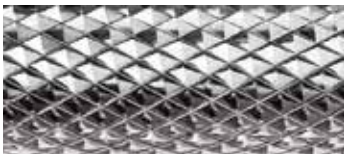
TAGLIO 3 PLUS
CUT 3 PLUS



TAGLIO STANDARD CON ROMPITRUCIOLO per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti. Velocità consigliata: 450÷600 m/min.

STANDARD CUT WITH CHIP BREAKER in low and high tensile steel, welded points, metals. Cutting speed: 450÷600 m/min.

TAGLIO 4
CUT 4



TAGLIO INCROCIATO per acciaio trattato, acciaio inox, materiali metallici in genere. Vibrazioni ridotte, buona finitura superficiale, ottimi rendimenti. Velocità consigliata: 450÷600 m/min.

DIAMOND CUT finish work in high alloy steel, stainless steel, metals, less vibrations, high performances. Cutting speed: 450÷600 m/min.



METALLO DURO

Realizzate in metallo duro, sono ideali per lavorazioni anche intensive di finitura e la sgrossatura su acciaio, acciaio temprato, acciaio inox, ghisa, cordoni di saldatura e materiali metallici in generale.

CARBIDE

Made by carbide, they are ideal for even intensive finishing and roughing operations on steel, hardened steel, stainless steel, cast iron, weld seams and metallic materials in general.

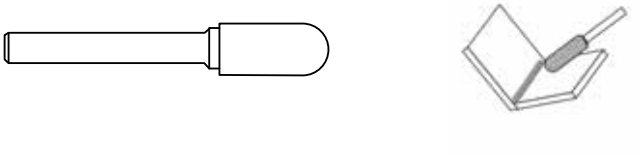
Una forma per ogni applicazione

A shape for each application

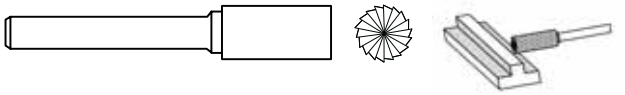
FORMA CILINDRICA ZYA
Cylindrical shape ZYA without end cut



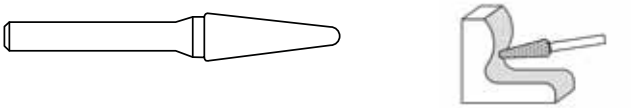
FORMA CILINDRICA
CON TESTA A SFERA WRC
Cylindrical shape with radius end WRC



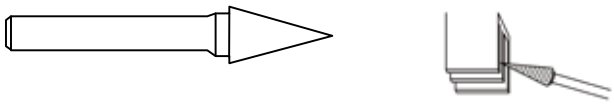
FORMA CILINDRICA
CON TAGLIENTE FRONTALE ZYAS
Cylindrical shape ZYAS with end cut



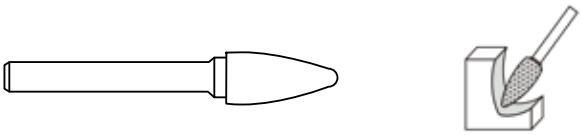
FORMA A CONO
CON PUNTA ARROTONDATA KEL
Conical shape with radius end KEL



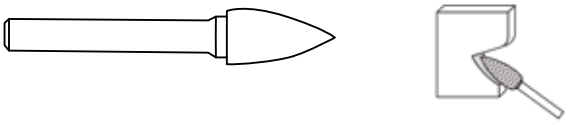
FORMA A CONO APPUNTITO SKM
Conical pointed shape SKM



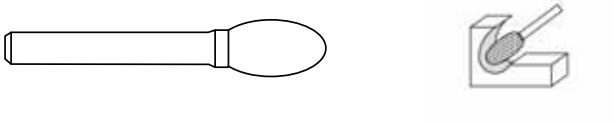
FORMA AD ALBERO RBF
Tree shape with radius end RBF



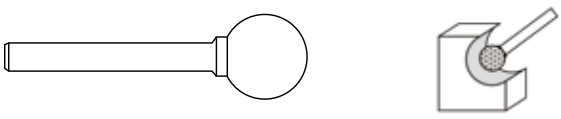
FORMA A OGIVA SPG
Pointed tree shape SPG



FORMA A GOCCIA TRE
Oval shape TRE



FORMA A SFERA KUD
Ball shape KUD



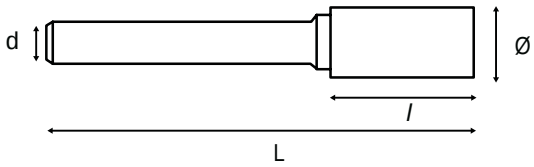
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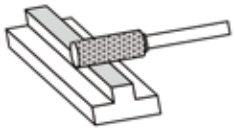
FORMA CILINDRICA ZYA SENZA TAGLIO FRONTALE
Cylindrical shape ZYA without end cut



Confezione
Packaging







	Gambo *Shank*	Ø	*l*	L	d		Taglio 1 *Cut 1*	Taglio 3 *Cut 3*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 *Cut 3* TiAlN	Taglio 4 *Cut 4* TiAlN
												
	*** Ø 3 mm**	**3**	16	38	3	cod.	-	2601500103	2601600103	2602000103	2603300103	2603400103
						€ cad/each	-	10,429	12,968	10,429	23,391	23,391
	Ø 6 mm	**4**	14	50	6	cod.	-	2601500104	2601600104	2602000104	2603300104	2603400104
						€ cad/each	-	29,478	29,478	29,478	41,392	41,392
		6	18	50	6	cod.	-	2601500106	2601600106	2602000106	2603300106	2603400106
						€ cad/each	-	29,478	29,478	29,478	41,392	41,392
		8	18	63	6	cod.	-	2601500108	2601600108	2602000108	2603300108	2603400108
						€ cad/each	-	29,478	29,478	29,478	41,952	41,952
		10	20	65	6	cod.	-	2601500110	2601600110	2602000110	2603300110	2603400110
						€ cad/each	-	36,456	36,456	36,456	51,216	51,216
		12	25	70	6	cod.	-	2601500112	2601600112	2602000112	2603300112	2603400112
						€ cad/each	-	46,128	46,128	46,128	62,768	62,768
		16	25	70	6	cod.	-	2601500116	2601600116	2602000116	2603300116	2603400116
						€ cad/each	-	68,438	68,438	68,438	97,375	97,375
SERIE LUNGA *LONG SERIE*	**Ø 6 mm**	**8**	-	-	-	cod.	-	-	-	-	-	-
						€ cad/each	-	-	-	-	-	-
		12	-	-	-	cod.	-	-	-	-	-	-
						€ cad/each	-	-	-	-	-	-

* Microfrese
Micro rotary files

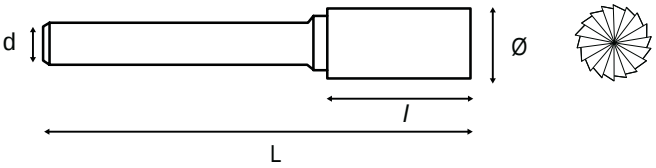
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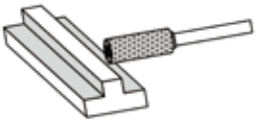
FORMA CILINDRICA ZYAS CON TAGLIO FRONTALE
Cylindrical shape ZYAS with end cut



Confezione
Packaging







Gambo *Shank*	Ø	*l*	L	d		Taglio 1 *Cut 1*	Taglio 3 *Cut 3*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 *Cut 3* TiAlN	Taglio 4 *Cut 4* TiAlN
											
*** Ø 3 mm**	**3**	16	38	3	cod.	-	2601500203	2601600203	2602000203	2603300203	2603400203
					€ cad/each	-	10,429	12,968	10,429	23,391	23,391
Ø 6 mm	**4**	14	50	6	cod.	-	2601500204	2601600204	2602000204	2603300204	2603400204
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392
	6	18	50	6	cod.	2602500206	2601500206	2601600206	2602000206	2603300206	2603400206
					€ cad/each	24,820	29,478	29,478	29,478	41,392	41,392
	8	18	63	6	cod.	2602500208	2601500208	2601600208	2602000208	2603300208	2603400208
					€ cad/each	26,593	29,478	29,478	29,478	41,952	41,952
	10	20	65	6	cod.	2602500210	2601500210	2601600210	2602000210	2603300210	2603400210
					€ cad/each	34,577	36,456	36,456	36,456	51,216	51,216
	12	25	70	6	cod.	2602500212	2601500212	2601600212	2602000212	2603300212	2603400212
					€ cad/each	44,325	46,128	46,128	46,128	62,768	62,768
	16	25	70	6	cod.	2602500216	2601500216	2601600216	2602000216	2603300216	2603400216
					€ cad/each	63,838	68,438	68,438	68,438	97,375	97,375
SERIE LUNGA *LONG SERIE* **Ø 6 mm**	**8**	18	120	6	cod.	2602600208	-	2602700208	2602800208	-	-
					€ cad/each	35,045	-	35,045	33,377	-	-
	12	25	120	6	cod.	2602600212	-	2602700212	2602800212	-	-
					€ cad/each	51,734	-	51,734	50,066	-	-

* Microfrese
Micro rotary files

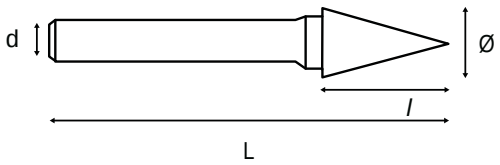
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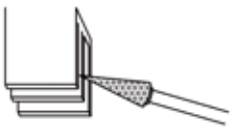
FORMA A CONO APPUNTITO SKM
Conical pointed shape SKM



Confezione
Packaging







Gambo *Shank*	Ø	*l*	L	d		Taglio 1 *Cut 1*	Taglio 3 *Cut 3*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 *Cut 3* TiAlN	Taglio 4 *Cut 4* TiAlN
											
*** Ø 3 mm**	**3**	16	38	3	cod.	-	2601500303	2601600303	2602000303	2603300303	2603400303
					€ cad/each	-	10,429	12,968	10,429	23,391	23,391
Ø 6 mm	**4**	12	50	6	cod.	-	2601500304	2601600304	2602000304	2603300304	2603400304
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392
	6	18	50	6	cod.	2602500306	2601500306	2601600306	2602000306	2603300306	2603400306
					€ cad/each	24,820	29,478	29,478	29,478	41,392	41,392
	8	18	63	6	cod.	2602500308	2601500308	2601600308	2602000308	2603300308	2603400308
					€ cad/each	26,593	29,478	29,478	29,478	41,952	41,952
	10	20	65	6	cod.	2602500310	2601500310	2601600310	2602000310	2603300310	2603400310
					€ cad/each	34,577	36,456	36,456	36,456	51,216	51,216
	12	25	70	6	cod.	2602500312	2601500312	2601600312	2602000312	2603300312	2603400312
					€ cad/each	44,325	46,128	46,128	46,128	62,768	62,768
	16	25	70	6	cod.	2602500316	2601500316	2601600316	2602000316	2603300316	2603400316
					€ cad/each	63,838	68,438	68,438	68,438	97,375	97,375
SERIE LUNGA *LONG SERIE* **Ø 6 mm**	**8**	18	120	6	cod.	2602600308	-	2602700308	2602800308	-	-
					€ cad/each	35,045	-	35,045	33,377	-	-
	12	25	120	6	cod.	2602600312	-	2602700312	2602800312	-	-
					€ cad/each	51,734	-	51,734	50,066	-	-

* Microfrese
Micro rotary files

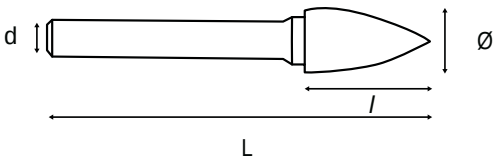
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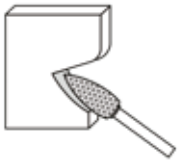
FORMA AD OGIVA SPG
Pointed tree shape SPG



Confezione
Packaging







Gambo *Shank*	Ø	*l*	L	d		Taglio 1 *Cut 1*	Taglio 3 *Cut 3*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 *Cut 3* TiAlN	Taglio 4 *Cut 4* TiAlN
											
*** Ø 3 mm**	**3**	16	38	3	cod.	-	2601500403	2601600403	2602000403	2603300403	2603400403
					€ cad/each	-	10,429	12,968	10,429	23,391	23,391
Ø 6 mm	**4**	14	50	6	cod.	-	2601500404	2601600404	2602000404	2603300404	2603400404
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392
	6	18	50	6	cod.	2602500406	2601500406	2601600406	2602000406	2603300406	2603400406
					€ cad/each	24,820	29,478	29,478	29,478	41,392	41,392
	8	18	63	6	cod.	2602500408	2601500408	2601600408	2602000408	2603300408	2603400408
					€ cad/each	26,593	29,478	29,478	29,478	41,952	41,952
	10	20	65	6	cod.	2602500410	2601500410	2601600410	2602000410	2603300410	2603400410
					€ cad/each	34,577	36,456	36,456	36,456	51,216	51,216
	12	25	70	6	cod.	2602500412	2601500412	2601600412	2602000412	2603300412	2603400412
					€ cad/each	44,325	46,128	46,128	46,128	62,768	62,768
	16	25	70	6	cod.	2602500416	2601500416	2601600416	2602000416	2603300416	2603400416
					€ cad/each	63,838	68,438	68,438	68,438	97,375	97,375
SERIE LUNGA *LONG SERIE* **Ø 6 mm**	**8**	18	120	6	cod.	2602600408	-	2602700408	2602800408	-	-
					€ cad/each	35,045	-	35,045	33,377	-	-
	12	25	120	6	cod.	2602600412	-	2602700412	2602800412	-	-
					€ cad/each	51,734	-	51,734	50,066	-	-

* Microfrese
Micro rotary files

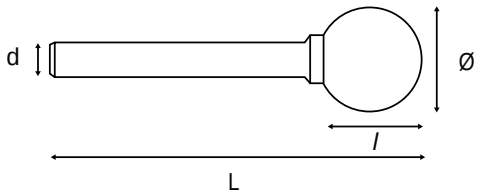
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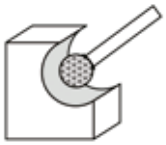
FORMA A SFERA KUD
Ball shape KUD



Confezione
Packaging







Gambo *Shank*	Ø	*l*	L	d		Taglio 1 *Cut 1*	Taglio 3 *Cut 3*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 *Cut 3* TiAlN	Taglio 4 *Cut 4* TiAlN
											
*** Ø 3 mm**	**3**	3	38	3	cod.	-	2601500503	2601600503	2602000503	2603300503	2603400503
					€ cad/each	-	10,429	12,968	10,429	23,391	23,391
Ø 6 mm	**4**	3	50	6	cod.	-	2601500504	2601600504	2602000504	2603300504	2603400504
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392
	6	5	50	6	cod.	2602500506	2601500506	2601600506	2602000506	2603300506	2603400506
					€ cad/each	24,820	29,478	29,478	29,478	41,392	41,392
	8	7	63	6	cod.	2602500508	2601500508	2601600508	2602000508	2603300508	2603400508
					€ cad/each	26,593	29,478	29,478	29,478	41,952	41,952
	10	9	65	6	cod.	2602500510	2601500510	2601600510	2602000510	2603300510	2603400510
					€ cad/each	34,577	36,456	36,456	36,456	51,216	51,216
	12	10	70	6	cod.	2602500512	2601500512	2601600512	2602000512	2603300512	2603400512
					€ cad/each	44,325	46,128	46,128	46,128	62,768	62,768
	16	14	70	6	cod.	2602500516	2601500516	2601600516	2602000516	2603300516	2603400516
					€ cad/each	63,838	68,438	68,438	68,438	97,375	97,375
SERIE LUNGA *LONG SERIE* — **Ø 6 mm**	**8**	7	120	6	cod.	2602600508	-	2602700508	2602800508	-	-
					€ cad/each	35,045	-	35,045	33,377	-	-
	12	10	120	6	cod.	2602600512	-	2602700512	2602800512	-	-
					€ cad/each	51,734	-	51,734	50,066	-	-

* Microfrese
Micro rotary files

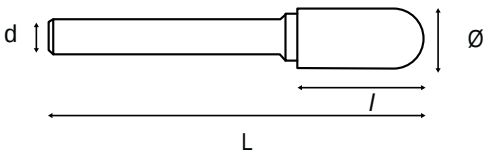
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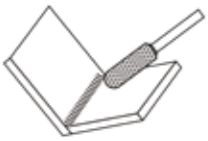
FORMA CLINDRICA CON TESTA A SFERA WRC
Cylindrical shape with radius end WRC



Confezione
Packaging







	Gambo *Shank*	Ø	*l*	L	d		Taglio 1 *Cut 1*	Taglio 3 *Cut 3*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 *Cut 3* TiAlN	Taglio 4 *Cut 4* TiAlN
												
	*** Ø 3 mm**	**3**	16	38	3	cod.	-	2601500603	2601600603	2602000603	2603300603	2603400603
						€ cad/each	-	10,429	12,968	10,429	23,391	23,391
	Ø 6 mm	**4**	14	50	6	cod.	-	2601500604	2601600604	2602000604	2603300604	2603400604
						€ cad/each	-	29,478	29,478	29,478	41,392	41,392
		6	18	50	6	cod.	2602500606	2601500606	2601600606	2602000606	2603300606	2603400606
						€ cad/each	24,820	29,478	29,478	29,478	41,392	41,392
		8	18	63	6	cod.	2602500608	2601500608	2601600608	2602000608	2603300608	2603400608
						€ cad/each	26,593	29,478	29,478	29,478	41,952	41,952
		10	20	65	6	cod.	2602500610	2601500610	2601600610	2602000610	2603300610	2603400610
						€ cad/each	34,577	36,456	36,456	36,456	51,216	51,216
		12	25	70	6	cod.	2602500612	2601500612	2601600612	2602000612	2603300612	2603400612
						€ cad/each	44,325	46,128	46,128	46,128	62,768	62,768
		16	25	70	6	cod.	2602500616	2601500616	2601600616	2602000616	2603300616	2603400616
						€ cad/each	63,838	68,438	68,438	68,438	97,375	97,375
SERIE LUNGA *LONG SERIE*	**Ø 6 mm**	**8**	18	120	6	cod.	2602600608	-	2602700608	2602800608	-	-
						€ cad/each	35,045	-	35,045	33,377	-	-
		12	25	120	6	cod.	2602600612	-	2602700612	2602800612	-	-
						€ cad/each	51,734	-	51,734	50,066	-	-

* Microfrese
Micro rotary files

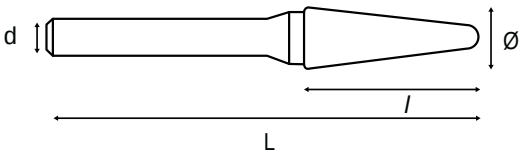
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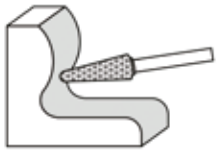
FORMA A CONO CON PUNTA ARROTONDATA KEL
Conical shape with radius end KEL



Confezione
Packaging







	Gambo *Shank*	Ø	*l*	L	d		Taglio 1 *Cut 1*	Taglio 3 *Cut 3*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 *Cut 3* TiAlN	Taglio 4 *Cut 4* TiAlN
												
	*** Ø 3 mm**	**3**	16	38	3	cod.	-	2601500703	2601600703	2602000703	2603300703	2603400703
						€ cad/each	-	10,429	12,968	10,429	23,391	23,391
	Ø 6 mm	**4**	16	50	6	cod.	-	2601500704	2601600704	2602000704	2603300704	2603400704
						€ cad/each	-	29,478	29,478	29,478	41,392	41,392
		6	18	50	6	cod.	-	2601500706	2601600706	2602000706	2603300706	2603400706
						€ cad/each	-	29,478	29,478	29,478	41,392	41,392
		8	18	63	6	cod.	-	2601500708	2601600708	2602000708	2603300708	2603400708
						€ cad/each	-	29,478	29,478	29,478	41,952	41,952
		10	20	65	6	cod.	-	2601500710	2601600710	2602000710	2603300710	2603400710
						€ cad/each	-	36,456	36,456	36,456	51,216	51,216
		12	25	70	6	cod.	-	2601500712	2601600712	2602000712	2603300712	2603400712
						€ cad/each	-	46,128	46,128	46,128	62,768	62,768
		16	25	70	6	cod.	-	2601500716	2601600716	2602000716	2603300716	2603400716
						€ cad/each	-	68,438	68,438	68,438	97,375	97,375
SERIE LUNGA *LONG SERIE*	**Ø 6 mm**	**8**	-	-	-	cod.	-	-	-	-	-	-
						€ cad/each	-	-	-	-	-	-
		12	-	-	-	cod.	-	-	-	-	-	-
						€ cad/each	-	-	-	-	-	-

* Microfrese
Micro rotary files

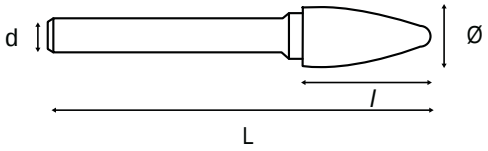
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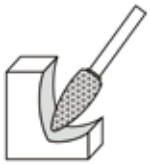
FORMA AD ALBERO RBF
Tree shape with radius end RBF



Confezione
Packaging







Gambo *Shank*	Ø	*l*	L	d		Taglio 1 *Cut 1*	Taglio 3 *Cut 3*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 *Cut 3* TiAlN	Taglio 4 *Cut 4* TiAlN
											
*** Ø 3 mm**	**3**	16	38	3	cod.	-	2601500803	2601600803	2602000803	2603300803	2603400803
					€ cad/each	-	10,429	12,968	10,429	23,391	23,391
Ø 6 mm	**4**	14	50	6	cod.	-	2601500804	2601600804	2602000804	2603300804	2603400804
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392
	6	18	50	6	cod.	-	2601500806	2601600806	2602000806	2603300806	2603400806
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392
	8	18	63	6	cod.	-	2601500808	2601600808	2602000808	2603300808	2603400808
					€ cad/each	-	29,478	29,478	29,478	41,952	41,952
	10	20	65	6	cod.	-	2601500810	2601600810	2602000810	2603300810	2603400810
					€ cad/each	-	36,456	36,456	36,456	51,216	51,216
	12	25	70	6	cod.	-	2601500812	2601600812	2602000812	2603300812	2603400812
					€ cad/each	-	46,128	46,128	46,128	62,768	62,768
	16	25	70	6	cod.	-	2601500816	2601600816	2602000816	2603300816	2603400816
					€ cad/each	-	68,438	68,438	68,438	97,375	97,375
SERIE LUNGA *LONG SERIE*											
Ø 6 mm	**8**	-	-	-	cod.	-	-	-	-	-	-
					€ cad/each	-	-	-	-	-	-
	12	-	-	-	cod.	-	-	-	-	-	-
					€ cad/each	-	-	-	-	-	-

* Microfrese
Micro rotary files

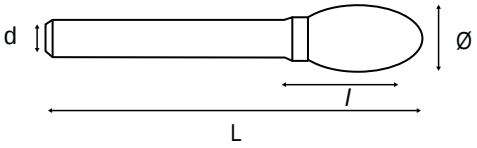
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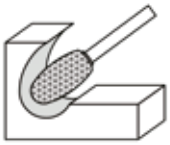
FORMA A GOCCIA TRE
Oval shape TRE



Confezione
Packaging



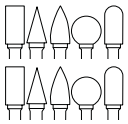
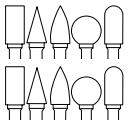




Gambo *Shank*	Ø	*l*	L	d		Taglio 1 *Cut 1*	Taglio 3 *Cut 3*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 *Cut 3* TiAlN	Taglio 4 *Cut 4* TiAlN
											
*** Ø 3 mm**	**3**	5,5	38	3	cod.	-	2601500903	2601600903	2602000903	2603300903	2603400903
					€ cad/each	-	10,429	12,968	10,429	23,391	23,391
Ø 6 mm	**4**	6	50	6	cod.	-	2601500904	2601600904	2602000904	2603300904	2603400904
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392
	6	10	50	6	cod.	-	2601500906	2601600906	2602000906	2603300906	2603400906
					€ cad/each	-	29,478	29,478	29,478	41,392	41,392
	8	13	58	6	cod.	-	2601500908	2601600908	2602000908	2603300908	2603400908
					€ cad/each	-	29,478	29,478	29,478	41,952	41,952
	10	16	61	6	cod.	-	2601500910	2601600910	2602000910	2603300910	2603400910
					€ cad/each	-	36,456	36,456	36,456	51,216	51,216
	12	20	65	6	cod.	-	2601500912	2601600912	2602000912	2603300912	2603400912
					€ cad/each	-	46,128	46,128	46,128	62,768	62,768
	16	25	70	6	cod.	-	2601500916	2601600916	2602000916	2603300916	2603400916
					€ cad/each	-	68,438	68,438	68,438	97,375	97,375
SERIE LUNGA *LONG SERIE* **Ø 6 mm**	**8**	-	-	-	cod.	-	-	-	-	-	-
					€ cad/each	-	-	-	-	-	-
	12	-	-	-	cod.	-	-	-	-	-	-
					€ cad/each	-	-	-	-	-	-

* Microfrese
Micro rotary files

ASSORTIMENTI FRESE ROTATIVE IN METALLO DURO
Carbide rotary burrs sets

	N° pezzi *N° pieces*	Ø	Forme *Shapes*		Taglio 1 *Cut 1*	Taglio 3 plus *Cut 3 plus*	Taglio 4 *Cut 4*	Taglio 3 e 4 *Cut 3 and 4*	Taglio 4 *Cut 4* TiAlN	Taglio 3 e 4 *Cut 3 and 4* TiAlN
	5	**10**		cod.	26030430	26030416	26030404	-	26030412	-
				€ cad/each	**156,408**	**143,002**	**164,569**	**-**	**230,455**	**-**
	5	**12**		cod.	26030431	26030417	26030405	-	26030413	-
				€ cad/each	**160,000**	**210,391**	**215,833**	**-**	**284,424**	**-**
	10	**10**		cod.	-	-	-	26030401	-	26030410
				€ cad/each	**-**	**-**	**-**	**311,567**	**-**	**455,497**
	10	**12**		cod.	-	-	-	26030402	-	26030411
				€ cad/each	**-**	**-**	**-**	**393,551**	**-**	**557,982**
	10 (5+5)	**8** **12**		cod.	26030432	26030415	26030403	-	-	-
				€ cad/each	**250,000**	**308,702**	**322,831**	**-**	**-**	**-**
	45	**6** **8** **10** **12** **16**	tutte le forme *all shapes*	cod.	-	-	26030502	-	26030504	-
				€ cad/each	**-**	**-**	**1.889,815**	**-**	**2.652,319**	**-**

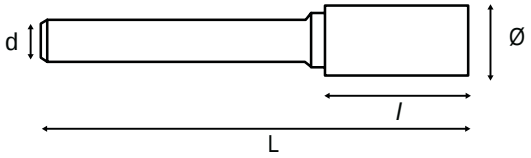
FRESE ROTATIVE IN HSS
HSS rotary burrs

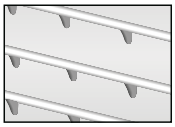
HSS



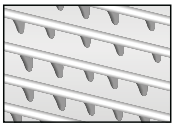
Confezione
Packaging







Z2
TAGLIO BASTARDO per leghe leggere, rame, ottone, bronzo, acciaio dolce.
Velocità consigliata: 220÷250 m/min.
For cutting light alloys, copper, brass, bronze, mild steel.
Cutting speed: 220÷250 m/min.



Z3
Taglio mezzo dolce per acciai, ghisa.
Vt 80÷220 m/min.
For cutting steel, cast iron.
Cutting speed 80÷220 m/min.

HRC ≃ 63

	Ø	l	L	d	26001 Z2 cod.	26001 Z2 €/cad/each	26003 Z3 cod.	26003 Z3 €/cad/each
Cilindrica con taglio frontale *Cylindrical shape with end cut*	**6**	20	60	6	2600100106	**11,004**	2600300106	**12,882**
	8	30	70	6	2600100108	**13,964**	2600300108	**15,385**
	10	30	70	6	2600100110	**17,342**	2600300110	**19,989**
	12	30	70	6	2600100112	**19,296**	2600300112	**21,172**
	15	30	70	6	2600100115	**25,099**	2600300115	**26,584**
Cilindrica con testa sferica *Cylindrical shape with radius end*	**6**	20	60	6	2600100206	**11,004**	2600300206	**12,882**
	8	30	70	6	2600100208	**13,964**	2600300208	**15,385**
	10	30	70	6	2600100210	**17,342**	2600300210	**19,989**
	12	30	70	6	2600100212	**19,296**	2600300212	**21,172**
	15	30	70	6	2600100215	**25,099**	2600300215	**26,584**
Conica a punta *Pointed tree shape*	**6**	20	60	6	2600100306	**11,004**	2600300306	**12,882**
	8	30	70	6	2600100308	**13,964**	2600300308	**15,385**
	10	30	70	6	2600100310	**17,342**	2600300310	**19,989**
	12	30	70	6	2600100312	**19,296**	2600300312	**21,172**
	15	30	70	6	2600100315	**25,099**	2600300315	**26,584**
Ogiva a punta *Tree shape*	**6**	20	60	6	2600100406	**11,004**	2600300406	**12,882**
	8	30	70	6	2600100408	**13,964**	2600300408	**15,385**
	10	30	70	6	2600100410	**17,342**	2600300410	**19,989**
	12	30	70	6	2600100412	**19,296**	2600300412	**21,172**
	15	30	70	6	2600100415	**25,099**	2600300415	**26,584**
Sferica *Ball shape*	**6**	5	50	6	2600100506	**11,004**	2600300506	**12,882**
	8	7	52	6	2600100508	**13,964**	2600300508	**15,385**
	10	9	54	6	2600100510	**17,342**	2600300510	**19,989**
	12	10	55	6	2600100512	**19,296**	2600300512	**21,172**
	15	14	59	6	2600100515	**25,099**	2600300515	**26,584**

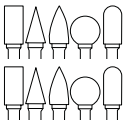
Applicazioni
Applications

Acciaio
Steel

Alluminio
Aluminum

Leghe leggere
Light alloys

Art. 26004 Self
Disponibile su richiesta
On demand

	N° pezzi *N° pieces*	Ø	Forme *Shapes*		Taglio Z2 *Cut Z2*	Taglio Z3 *Cut Z3*	Taglio Z2 e Z3 *Cut Z2 and Z3*
	5	**10**		cod.	26008203	26008201	-
				€ cad/each	**91,659**	**105,766**	**-**
	5	**12**		cod.	26008204	26008200	-
				€ cad/each	**101,541**	**110,003**	**-**
	10	**10**		cod.	-	-	26008401
				€ cad/each	**-**	**-**	**190,384**
	10	**12**		cod.	-	-	26008402
				€ cad/each	**-**	**-**	**204,478**
	50	**6** **8** **10** **12** **15**	tutte le forme *all shapes*	cod.	-	-	26008501
				€ cad/each	**-**	**-**	**913,600**


KRINO



LAME DA TAGLIO
CUTTING BLADES

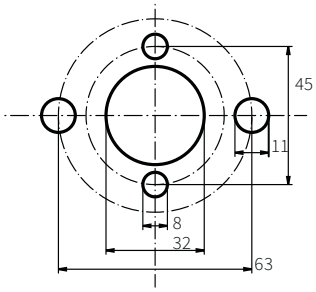
~UNI 4012

Troncatrici lente
Slow cutting-off machines



Confezione
Packaging



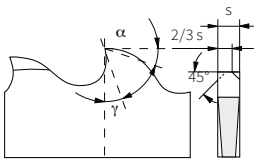


N°2 Ø 11x63 mm
N°2 Ø 8x45 mm
Fori di trascinamento
Drive holes - Trouse guide

27001 HSS-G VAPO — BW DIN 1838 t4

27011 HSS-CO 5% VAPO — BW DIN 1838 t4

Profilati *Structurals*

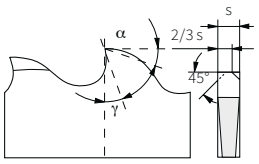


Ø mm	s spessore thickness	d foro hole	z n. denti n. teeth	27001 cod.	27001 € cad/each	27011 cod.	27011 € cad/each
200	1,8	32	160	27001200	**116,339**	27011200	**144,687**
225	1,9	32	180	27001225	**131,856**	27011225	**163,731**
250	2	32	200	27001250	**148,075**	27011250	**184,029**
275	2,5	32	220	27001275	**221,400**	27011275	**274,150**
300	2,5	32	220	27001300	**276,124**	27011300	**308,414**
315	2,5	32	240	27001315	**314,899**	27011315	**335,064**
350	2,5	32	280	27001350	**383,154**	27011350	**430,254**

27002 HSS-G VAPO — BW DIN 1838 t5

27012 HSS-CO 5% VAPO — BW DIN 1838 t5

Pieni *Full section*
Profilati *Structurals*

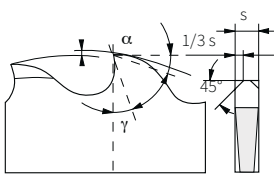


Ø mm	s spessore thickness	d foro hole	z n. denti n. teeth	27002 cod.	27002 € cad/each	27012 cod.	27012 € cad/each
200	1,8	32	128	27002200	**116,339**	27012200	**144,687**
225	1,9	32	140	27002225	**131,856**	27012225	**163,731**
250	2	32	160	27002250	**148,075**	27012250	**184,029**
275	2,5	32	180	27002275	**221,400**	27012275	**274,150**
300	2,5	32	180	27002300	**276,124**	27012300	**308,414**
315	2,5	32	200	27002315	**314,899**	27012315	**335,064**
350	2,5	32	220	27002350	**383,154**	27012350	**430,254**

27003 HSS-G VAPO — C (HZ) t6

27013 HSS-CO 5% VAPO — C (HZ) t6

Pieni *Full section*



Ø mm	s spessore thickness	d foro hole	z n. denti n. teeth	27003 cod.	27003 € cad/each	27013 cod.	27013 € cad/each
200	1,8	32	100	27003200	**116,339**	27013200	**144,687**
225	1,9	32	120	27003225	**131,856**	27013225	**163,731**
250	2	32	128	27003250	**148,075**	27013250	**184,029**
275	2,5	32	140	27003275	**221,400**	27013275	**274,150**
300	2,5	32	160	27003300	**276,124**	27013300	**308,414**
315	2,5	32	160	27003315	**314,899**	27013315	**335,064**
350	2,5	32	180	27003350	**383,154**	27013350	**430,254**

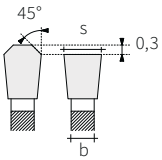
t = è il passo tra due denti consecutivi espresso in mm.
t = is the pitch between two consecutive teeth expressed in mm.

SEGHE CIRCOLARI CON DENTI IN METALLO DURO PER ALLUMINIO
Carbide tipped circular blades for Aluminium

27050

Speciale per alluminio
special for aluminum



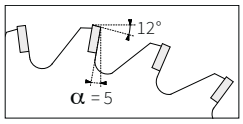


Dentatura sbozzatore-finitore
Rough and finishing teeth
N°2 Ø 11x63 mm
Fori di trascinamento
Drive holes

Ø *mm*	s spessore *thickness*	b	d foro *hole*	z n. denti *n. teeth*	α spoglia *hook angle*	cod.	€ cad/each
250	3,2	2,2	32	60	5	270502503260	**138,533**
250	3,2	2,2	32	80	5	270502503280	**150,881**
300	3,2	2,4	32	72	5	270503003272	**156,115**
300	3,2	2,4	32	84	5	270503003284	**167,698**
300	3,2	2,4	32	96	5	270503003296	**182,765**
350	3,4	2,8	32	84	5	270503503284	**198,451**
350	3,4	2,8	32	96	5	270503503296	**216,972**
350*	3,4	2,8	32	108	5	2705035032108	**228,674**
400	3,6	2,8	32	96	5	270504003296	**251,371**
400*	3,6	2,8	32	120	5	2705040032120	**293,707**
420	3,8	3,0	32	108	5	2705042032108	**338,688**
450*	3,8	3,0	32	96	5	270504503296	**317,520**
450*	3,8	3,0	32	108	5	2705045032108	**343,980**
500*	4,0	3,2	32	120	5	2705050032120	**423,360**

* Incisioni anti rumore
** Anti noise notches*

Pieni-profilati
Full section-structurals



Seghe adatte per il taglio di profilati e pieni in Alluminio, leghe non ferrose, resine e plastica dura. Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.

For cutting structurals and solids of Aluminium and light alloys. The circular blade can't go out the work-piece material further than 10÷15 mm.

Applicazioni
Applications

Alluminio *Aluminum*
Plastica *Plastic*

SEGA CIRCOLARE UNIVERSALE CON DENTI IN METALLO DURO
Universal carbide tipped circular sawblade

27055

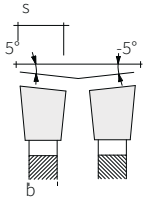
Multiuso
Multi-purpose

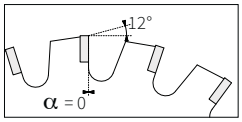


Ø *mm*	s spessore *thickness*	b	d foro *hole*	z n. denti *n. teeth*	α spoglia *hook angle*	cod.	€ cad/each
160	2,2	1,6	20	28	0°	270551602028	**104,737**
160	2,2	1,6	30	28	0°	270551603028	**104,737**
180	2,2	1,6	30	32	0°	270551803032	**120,289**
190	2,2	1,6	30	32	0°	270551903032	**120,289**
230	2,2	1,6	30	40	0°	270552303040	**140,650**
240	2,2	1,6	30	42	0°	270552403042	**144,883**
250	2,4	2,0	20	48	0°	270552502048	**159,290**
250	2,4	1,8	30	48	0°	270552503048	**159,290**
300	2,4	1,8	30	60	0°	270553003060	**180,398**
300	2,4	1,8	30	80	0°	270553003080	**204,801**
305	2,4	1,8	25,4	80	0°	270553052580	**215,467**
350	2,5	2,0	30	70	0°	270553503070	**252,017**
350	2,5	2,0	30	90	0°	270553503090	**287,179**

Applicazioni
Applications

Metalli *Metals*
Alluminio *Aluminum*
Legno *Wood*
Truciolato *Chipboard*
Sandwich *Sandwich*
Plastica *Plastic*





Lama circolare con denti in metallo duro per il taglio a secco di ferro, acciaio dolce, alluminio, leghe leggere, materiali composti (pannelli isolanti, laminati), plastica dura, legno e truciolati. Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.

Ideal for cutting in iron, soft steel, Aluminium, brass, copper, plastics, plexiglass, chipboards, composites. Applications on portable or bench sawing machines. The circular blade can't go out the work-piece material further than 10÷15 mm.

SEGHE CIRCOLARI PER LEGNO CON DENTI IN METALLO DURO PER SEGATRICI PORTATILI
Carbide tipped circular sawblades for wood for portable machines

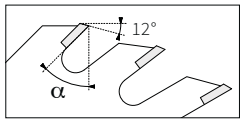
27060

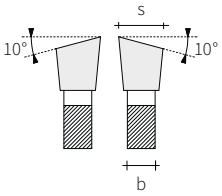
Per segatirci portatili
For portable circular saws

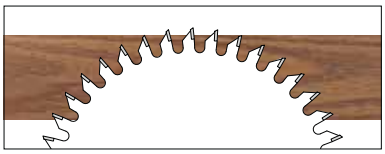


Confezione
Packaging









La sega circolare deve fuoriuscire dal materiale lavorato di una quantità pari all'altezza dei denti. Il numero di denti impegnati nel taglio deve essere di 2÷3 alla volta.

The overlap of the circular saw blade teeth over the cutting material must be equal to the height of the carbide tip. The number of teeth cutting simulteneously must be 2÷3.

Ø *mm*	s spessore *thickness*	b	d foro *hole*	z n. denti *n. teeth*	α spoglia *hook angle*	cod.	€ cad/each
130	2,5	1,6	20	20	15°	270601302020	**55,625**
140	2,5	1,6	20	20	15°	270601402020	**62,011**
150	2,5	1,6	16	24	15°	270601501624	**64,445**
150	2,5	1,6	20	24	15°	270601502024	**64,445**
150	2,5	1,6	16	40	15°	270601501640	**74,911**
150	2,5	1,6	20	40	12°	270601502040	**74,911**
160	2,5	1,6	20	24	15°	270601602024	**64,445**
160	2,5	1,6	30	24	15°	270601603024	**64,445**
160	2,5	1,6	20	40	12°	270601602040	**77,263**
160	2,5	1,6	30	40	12°	270601603040	**77,263**
170	2,5	1,6	30	24	15°	270601703024	**67,421**
170	2,5	1,6	30	40	12°	270601703040	**80,733**
180	2,5	1,6	20	24	15°	270601802024	**67,421**
180	2,5	1,6	30	24	15°	270601803024	**67,421**
180	2,5	1,6	20	40	12°	270601802040	**80,733**
180	2,5	1,6	30	40	12°	270601803040	**80,733**
190	2,5	1,6	20	24	15°	270601902024	**66,833**
190	2,5	1,6	30	24	15°	270601903024	**66,833**
200	2,8	1,8	30	48	12°	270602003048	**88,542**
210	2,8	1,8	30	24	15°	270602103024	**73,382**
210	2,8	1,8	30	48	12°	270602103048	**90,952**
230	2,8	1,8	30	24	15°	270602303024	**80,203**
230	2,8	1,8	30	48	12°	270602303048	**97,373**
235	2,8	1,8	30	24	15°	270602353024	**80,203**
235	2,8	1,8	30	48	12°	270602353048	**97,373**
240	2,8	1,8	30	24	15°	270602403024	**80,203**
240	2,8	1,8	30	48	12°	270602403048	**97,373**



Per avere indicazioni circa il numero di denti adatto alla lavorazione, conoscendo il diametro della sega circolare ø e lo spessore del materiale da lavorare L, è possibile utilizzare la seguente formula Z = ø x β / L, dove β è:
7=nel taglio di legno naturale in direzione parallela alle nervature
9=nel taglio di legno naturale in direzione trasversale alle nervature
11=nel taglio di legno duro in direzione trasversale alle nervature e pannelli compositi.

To choose the teeth suitable for processing, if you know the diameter ø of the circular saw blade and the thickness L of the material to be processed it is possible to use the following formula Z = ø x β / L, where β is:
7 = natural wood cutting, parallel to the ribs
9 = natural wood cutting, transverse to the ribs
11 = hard wood and composite panels, transverse to the ribs

Applicazioni
Applications



Raccomandate per il taglio su macchine portatili di legno, truciolari, laminati, etc... Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.

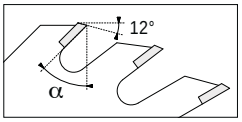
Universal use in wood and chipboard materials with portable machines.The circular blade can't go out the work-piece material further than 10÷15 mm.

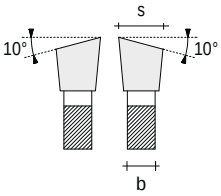
LAME PROFESSIONALI PER LEGNO CON DENTI IN METALLO DURO PER TRONCATRICI E SEGHE DA BANCO
Carbide tipped circular sawblades for wood

27070

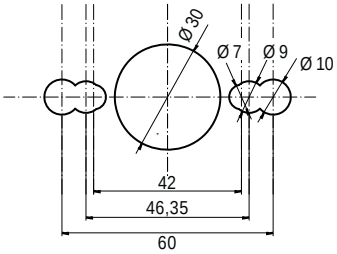
Per troncatrici e seghe da banco
For mitre and table saws







Ø mm	s spessore thickness	b	d foro hole	z n. denti n. teeth	α spoglia hook angle	cod.	€ cad/each
200	3,2	2,2	30	64	10°	270702003064	**127,475**
250	3,2	2,2	30	40	10°	270702503040	**127,475**
250	3,2	2,2	30	60	10°	270702503060	**133,908**
250	3,2	2,2	30	80	10°	270702503080	**141,356**
280	3,2	2,2	30	64	10°	270702803064	**144,869**
280	3,2	2,2	30	80	10°	270702803080	**169,579**
300	3	2,2	30	48	12°	270703003048	**139,612**
300	3,2	2,2	30	60	12°	270703003060	**143,076**
300	3,2	2,2	30	72	10°	270703003072	**150,199**
300	3,2	2,2	30	96	10°	270703003096	**171,603**
305	3,2	2,2	30	72	10°	270703053072	**166,491**
305	3,2	2,2	30	96	10°	270703053096	**178,422**
350	3,5	2,5	30	54	12°	270703503054	**154,911**
350	3,5	2,5	30	72	12°	270703503072	**174,267**
350	3,5	2,5	30	84	10°	270703503084	**187,458**
400	3,8	2,8	30	64	12°	270704003064	**217,183**
400	3,8	2,8	30	80	12°	270704003080	**228,932**
400	3,8	2,8	30	96	10°	270704003096	**241,045**
450	4,0	2,8	30	72	12°	270704503072	**289,860**



N°2 Ø 7x42 mm
N°2 Ø 9x46,35 mm
N°2 Ø 10x60 mm
Fori di trascinamento
Drive holes - Trouse guide

Applicazioni
Applications

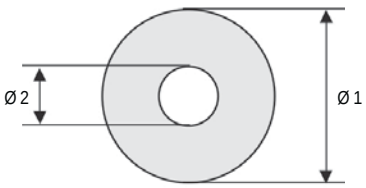


Indicate per il taglio sia longitudinale che trasversale nel legno e derivati (agglomerati, stratificati) con seghe circolari a banco e troncatrici.
Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.

Crosswise and lengthwise cutting in woods and chipboards for any professional use.
The circular blade can't go out the work-piece material further than 10÷15 mm.

ANELLI DI RIDUZIONE PER TUTTI I TIPI DI LAME CIRCOLARI
Reduction ring for every kind of circular blades

27072



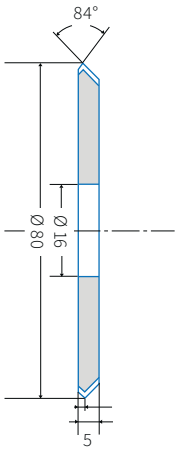

Anelli in rame
Copper rings

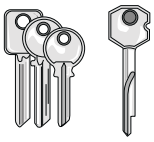
Ø 1 / Ø 2	pcs.	cod.	€ cad/each
35 / 30	3	270723530	**6,321**
35 / 25	3	270723525	**6,321**
35 / 20	3	270723520	**6,321**
32 / 30	3	270723230	**6,321**
32 / 25	3	270723225	**6,321**
32 / 20	3	270723220	**6,321**
30 / 25	3	270723025	**6,321**
30 / 20	3	270723020	**6,321**
30 / 18	3	270723018	**6,321**
30 / 16	3	270723016	**6,321**
25 / 20	3	270722520	**6,321**
20 / 16	3	270722016	**6,321**

26125

FRESE BICONICHE
Prismatic milling cutters







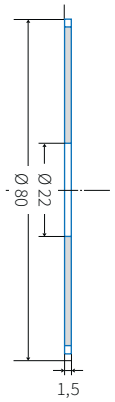
Per macchine duplicatrici di chiavi
For key cutting machines:

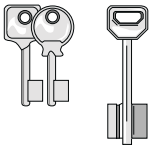
Rekord – Rekord plus, Rekord 2000, Special Super, Special Master, Bravo Super, Bravo Master, Bravo Europa, Poker-s, Poker Plus, etc.

Dimensioni *Sizes*	z n. denti *n. teeth*	cod.	€ cad/each
Ø 80x5x16 HSS-CO	110	26125001	**152,299**
Ø 80x5x16 HSS-CO	120	26125002	**173,460**
Ø 80x5x16 ASP 30 - CO8%	110	26125003	**208,715**
Ø 80x5x16 Metallo duro *Carbide*	80	26125005	**834,446**

FRESE A DISCO A 3 TAGLI
Three cutting milling cutters







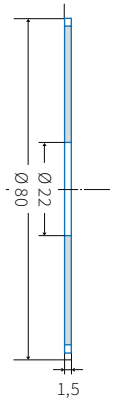
Per macchine duplicatrici di chiavi
For key cutting machines:

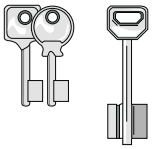
Targa –Targa 2000 –Targa 2000 P Tech 3, Modular IV, Serenissima, Opera IV, X80, GT 40B, GT 40C, GT 40D, Super Dar, Mini Jolly, etc.

Dimensioni *Sizes*	z n. denti *n. teeth*	cod.	€ cad/each
Ø 80x1,5x22 HSS-CO8%	100	26125010	**152,299**
Ø 80x1,5x22 ASP 30 - CO8%	100	26125012	**208,715**
Ø 80x1,5x22 Metallo duro *Carbide*	100	26125015	**632,354**

FRESE A DISCO A TAGLIO PERIFERICO
Peripherical milling cutters







Per macchine duplicatrici di chiavi
For key cutting machines:

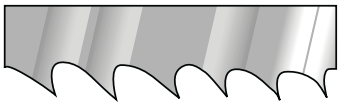
Targa –Targa 2000 –Targa 2000 P Tech 3, Modular IV, Serenissima, Opera IV, X80, GT 40B, GT 40C, GT 40D, Super Dar, Mini Jolly, etc.

Dimensioni *Sizes*	z n. denti *n. teeth*	cod.	€ cad/each
Ø 80x1,5x22 HSS-CO8%	100	26125020	**74,748**
Ø 80x1,5x22 ASP 30* - CO8%	100	26125022	**122,690**
Ø 80x1,5x22 Metallo duro *Carbide*	100	26125025	**401,915**

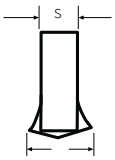
* ASP 30 Acciaio superrapido sinterizzato (Metallurgia delle polveri)
** Sinterized steel C 1,28% - Cr 4,2% - Mo 5% - W 6,4% - Co 8,5% - V 3,1%*

25018

Alte prestazioni - HSS PM
High performance special blade - HSS PM



Dentatura / ***Teeth***
ASP Metallurgia delle polveri
HRC: 70/71
Strip di supporto / ***Body***
HRC: 48/50
(Alto contenuto di cromo / ***High chrome***)



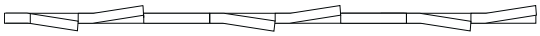
Stradatura
Tooth Set

Moduli dentature a passo variabile
Variable pitch modules



Variabile
Variable

Triplo truciolo
Triple chip



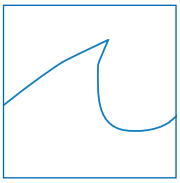
Metallurgia delle polveri

L'acciaio superrapido, derivato dal processo di metallurgia delle polveri, offre prestazioni eccezionali: presenta una elevata durezza a caldo e una elevata tenacità, garantita dall'alto contenuto di elementi di lega e dalla microstruttura fortemente omogenea. Gli utensili prodotti con la metallurgia delle polveri (Powder Metallurgy) hanno una durata più elevata ed un rendimento più alto, oltre che una finitura superficiale ottima, che agevola lo scorrimento dei trucioli di lavorazione lontano dalla zona di taglio.

Powder metallurgy

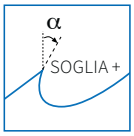
HSS made by powder metallurgy has excellent performances: its homogeneous structure assures high toughness and high resistance. The finishing of the tools are really smooth, so the chip can easily be evacuated far from the cutting zone, thus avoiding built-up edge growth.

Profilo a dente di produzione
Production tooth



Speciale geometria del dente realizzato con acciaio superrapido e metallurgia delle polveri.
Ha profilo PRODUCTION TOOTH e un'ampia gola di scarico XL.

Special tooth geometry made of high speed steel and powder metallurgy.
It has PRODUCTION TOOTH profile and a wide XL discharge groove.



SPOGLIA ESTREMAMENTE POSITIVA 12°
EXTREMELY Positive rake 12°

Dentatura variabile
Variable tooth
(z - tpi 0,75/1,25÷5/8)

Utilizzare su segatrici prevalentemente a ciclo di taglio automatico, in tutte le lavorazioni particolarmente gravose dove necessiti una lama che garantisca una elevata, costante e duratura resa prestazionale. Dedicata al taglio di sezioni piene ma anche interrotte (di medio o forte spessore), singole o eventualmente disposte affiancate in acciai con R < 1400 N/mm², acciai da bonifica, acciai per cuscinetti, acciai per stampi, acciai per lavorazioni a freddo e a caldo, acciai inossidabili, acciai inox resistenti al calore (Duplex®, Super Duplex®), titanio, leghe speciali.

Use on sawing machines mainly with automatic cutting cycle, in all particularly demanding processes where you need a blade that guarantees a high, constant and long-lasting performance. Dedicated to the cutting of solid or interrupted sections (of medium or strong thickness), single or possibly placed side by side in steels with R < 1400 N/mm², tempered steels, bearing steels, steels for molds, steels for cold working and hot, stainless steels, heat resistant stainless steels (Duplex®, Super Duplex®), titanium, special alloys.

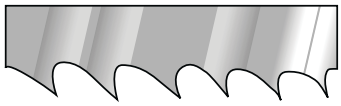




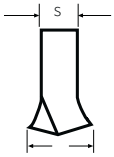
Dimensioni (Altezza x Spessore) *Dimensions (Width x Thickness)*	Passo dentatura (Moduli a passo variabile in Tpi) *Toothing pitch (Variable pitches modules in Tpi)*						Prezzo (Al metro saldatura compresa) *Price (For meter weld included)*
mm	1 / 1,4	1,4 / 2	2 / 3	3 / 4	4 / 6	5 / 8	€
27 x 0,90			X	X	X	X	**29,759**
34 x 1,10		X	X	X	X	X	**37,045**
41 x 1,30		X	X	X	X		**51,571**
54 x 1,60	X	X	X	X	X		**70,099**

25011

Alte prestazioni
High performance



Dentatura / ***Teeth***
AISI M42 - 8%Co
HRC: 68/69
Strip di supporto / ***Body***
HRC: 48/50
(Alto contenuto di cromo / ***High chrome***)



Stradatura
Tooth Set

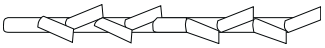


Moduli dentature a passo variabile
Variable pitch modules



Variabile
Variable

Normale dritta
Straight raker set



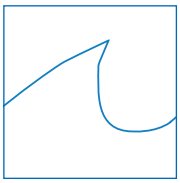
la più utilizzata
most used

Moduli dentature a passo costante
Constant pitch modules



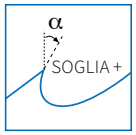
Fissa
Regular

Profilo a dente curvilineo
Curvilinear tooth



Dente curvilineo che garantisce una esecuzione di taglio efficace e lineare, a beneficio di un migliore avanzamento.

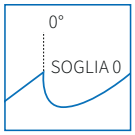
Curvilinear tooth that guarantees an effective and linear cutting execution to fit a better feed.



SPOGLIA ESTREMAMENTE POSITIVA 12°
EXTREMELY Positive rake 12°

Dentatura variabile
Variable tooth
(z - tpi 1/1,4÷5/8)3

Dentatura costante
Regular tooth
(z - tpi 2÷6)



SPOGLIA NEUTRA
Standard straight rake

Dentatura variabile
Variable tooth
(z - tpi 6/10÷10/14)

Dentatura costante
Regular tooth
(z - tpi 10÷18)

Utilizzare su segatrici a ciclo di taglio (manuale o automatico), in tutti i generi di lavorazioni artigianali ed industriali dove necessiti una elevata resa prestazionale e vita operativa dell'utensile, per il taglio di sezioni piene ed interrotte, singole o disposte a fascio, in acciai fino a 1300 N/mm², acciai strutturali, acciai automatici, acciai al carbonio, acciai da bonifica, acciai per cuscinetti, acciai per stampi, acciai inossidabili, ghise lamellari e sferoidali, metalli non ferrosi come alluminio e rame, materie plastiche, materiali non metallici in genere.

Use on cutting-cycle saws (manual or automatic), in all kinds of artisan and industrial processes where a high performance yield and working life of the tool is required, for cutting full and interrupted sections, single or bundled, in steels up to 1300 N/mm², structural steels, automatic steels, carbon steels, tempered steels, bearing steels, steels for molds, stainless steels, lamellar and spheroidal cast irons, non-ferrous metals such as aluminum and copper, plastics, non-metallic materials in general.



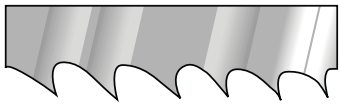


Dimensioni (Altezza x Spessore) *Dimensions (Width x Thickness)*	Passo dentatura (Moduli a passo costante e variabile in Tpi) *Toothing pitch (Constant and variable pitches modules in Tpi)*															Prezzo (Al metro saldatura compresa) *Price (For meter weld included)*
mm	3	4	6	10	14	18	1/1,4	1,4/2	2/3	3/4	4/6	5/8	6/10	8/12	10/14	€
6 x 0,65			X												X	**20,798**
6 x 0,90		X	X	X	X										X	**20,798**
10 x 0,65		X	X												X	**22,085**
10 x 0,90		X	X	X	X										X	**22,085**
13 x 0,65	X	X	X	X	X	X						X	X	X	X	**22,868**
13 x 0,90	X	X	X	X	X							X	X	X	X	**22,868**
20 x 0,90	X	X	X	X	X						X	X	X	X	X	**23,864**
27 x 0,90					X				X	X	X	X	X	X	X	**29,172**
34 x 1,10								X	X	X	X	X	X	X		**33,728**
41 x 1,30								X	X	X	X	X	X			**48,247**
54 x 1,30								X	X	X	X					**57,507**
54 x 1,60							X	X	X	X	X					**66,600**

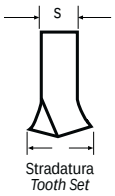
LAME A NASTRO BIMETALLICHE PER CARPENTERIA - HSS AISI M42
Bimetal band saw blades - HSS AISI M42

25016

Dente rinforzato
Reinforced tooth



Dentatura / *Teeth*
AISI M42 - 8%Co
HRC: 67/69
Strip di supporto / *Body*
HRC: 44/46



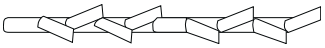
Stradatura
Tooth Set

Moduli dentature a passo variabile
Variable pitch modules

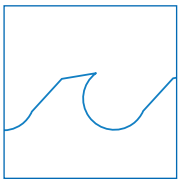


Variabile
Variable

Stradatura maggiorata
Extra set

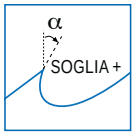


Profilo a dente rinforzato
Reinforced tooth



Dente a profilo rinforzato, per una netta riduzione dei fenomeni di rottura dei denti ed una eccezionale resistenza agli impatti e alle vibrazioni.

Tooth with reinforced profile, for a clear reduction of the breaking phenomena of the teeth and an exceptional resistance to impacts and vibrations.



SPOGLIA POSITIVA 7°
Positive rake 7°

Dentatura variabile
Variable tooth
(z - tpi 0,75/1,25÷5/8)

Utilizzare su segatrici a ciclo di taglio (manuale o automatico), nelle lavorazioni di carpenteria dove necessiti una lama estremamente resistente e versatile, atta a tagliare le più diverse forme e spessori di materiali. Dedicata prevalentemente al taglio di sezioni interrotte (tubi, profilati, ecc.) ma anche di sezioni piene, singole o disposte a fascio di acciai fino a 1200 N/mm², acciai strutturali, acciai automatici, acciai al carbonio.

Use on cutting machines (manual or automatic), in carpentry work where you need an extremely resistant and versatile blade, able to cut the most different shapes and thicknesses of materials. Dedicated mainly to cutting interrupted sections (pipes, profiles, etc.) but also of solid, single or beam sections of steels up to 1200 N/mm², structural steels, automatic steels, carbon steels.

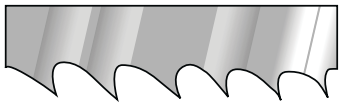




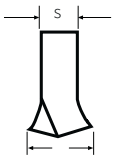
Dimensioni (Altezza x Spessore) *Dimensions (Width x Thickness)*	Passo dentatura (Moduli a passo variabile in Tpi) *Toothing pitch (Variable pitches modules in Tpi)*						Prezzo (Al metro saldatura compresa) *Price (For meter weld included)*
mm	2/3	3/4	4/6	5/7	8/11	12/16	€
13 x 0,65					X		15,640
13 x 0,90					X		15,640
20 x 0,90				X	X		17,268
27 x 0,90	X	X	X	X	X	X	19,577
34 x 1,10	X	X	X	X			26,305
41 x 1,30	X	X	X				42,165

25010

Lama multiuso
Multipurpose blade



Dentatura / *Teeth*
AISI M42 - 8%Co
HRC: 67/69
Strip di supporto / *Body*
HRC: 44/46



Stradatura
Tooth Set

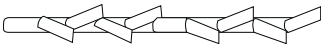


Moduli dentature a passo variabile
Variable pitch modules



Variabile
Variable

Normale dritta
Straight raker set

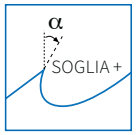


la più utilizzata
most used

Moduli dentature a passo costante
Constant pitch modules



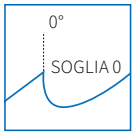
Fissa
Regular



SPOGLIA POSITIVA 8°
Positive rake 8°

Dentatura variabile
Variable tooth
(z - tpi 1,4/2÷5/8)

Dentatura costante
Regular tooth
(z - tpi 2÷6)



SPOGLIA NEUTRA
Standard straight rake

Dentatura variabile
Variable tooth
(z - tpi 6/10÷14/18)

Dentatura costante
Regular tooth
(z - tpi 8÷18)

Utilizzare su segatrici a ciclo di taglio (manuale o automatico), in tutti i generi di lavorazioni artigianali ed industriali, per il taglio di sezioni piene ed interrotte, singole o disposte a fascio, di acciai fino a 1200 N/mm², acciai strutturali, acciai automatici, acciai al carbonio, ghise lamellari e sferoidali, metalli non ferrosi (alluminio, rame,...) materie plastiche, materiali non metallici in genere.

Use on cutting-cycle saws (manual or automatic), in all kinds of artisanal and industrial processes, for cutting solid and interrupted sections, single or arranged in bundles, of steels up to 1200 N/mm², structural steels, automatic steels, carbon steels, lamellar and spheroidal cast irons, non-ferrous metals (aluminum, copper,...) plastics, non-metallic materials in general.





Dimensioni (Altezza x Spessore) *Dimensions (Width x Thickness)*	Passo dentatura (Moduli a passo costante e variabile in Tpi) *Toothing pitch (Constant and variable pitches modules in Tpi)*																	Prezzo (Al metro saldatura compresa) *Price (For meter weld included)*
mm	2	3	4	6	8	10	14	18	1,4/2	2/3	3/4	4/6	5/8	6/10	8/12	10/14	14/18	€
13 x 0,65		X	X	X		X	X	X					X	X	X	X	X	**15,360**
13 x 0,90		X	X	X		X	X						X	X	X	X		**15,360**
20 x 0,90		X	X	X		X	X					X	X	X	X	X		**17,268**
27 x 0,90	X	X	X	X	X	X	X			X	X	X	X	X	X	X		**18,572**
34 x 1,10										X	X	X	X	X	X			**23,091**
41 x 1,30									X	X	X	X	X					**33,531**

LISTINO ANELLI SALDATI
PER LE SEGATRICI PIÙ COMUNI
Price list for the most common welded bandsaw blades

25010

Dimensioni *Sizes*	€	Dimensioni *Sizes*	€	Dimensioni *Sizes*	€
1138 x 13 x 0,65	17,481	2580 x 27 x 0,90	47,917	3505 x 27 x 0,90	65,097
1140 x 13 x 0,65	17,512	2590 x 27 x 0,90	48,103	3580 x 27 x 0,90	66,490
1295 x 13 x 0,65	19,892	2600 x 27 x 0,90	48,289	3660 x 27 x 0,90	67,975
1300 x 13 x 0,65	19,970	2650 x 27 x 0,90	49,217	3810 x 27 x 0,90	70,762
1325 x 13 x 0,65	20,353	2700 x 27 x 0,90	50,146	3850 x 27 x 0,90	71,504
1330 x 13 x 0,65	20,430	2710 x 27 x 0,90	50,332	3900 x 27 x 0,90	72,434
1335 x 13 x 0,65	20,507	2720 x 27 x 0,90	50,518	3505 x 34 x 1,10	80,933
1440 x 13 x 0,65	22,119	2750 x 27 x 0,90	51,075	3634 x 34 x 1,10	83,913
1470 x 13 x 0,65	22,580	2755 x 27 x 0,90	51,168	3660 x 34 x 1,10	84,512
1638 x 13 x 0,65	25,162	2760 x 27 x 0,90	51,260	4100 x 34 x 1,10	94,672
1640 x 13 x 0,65	25,192	2765 x 27 x 0,90	51,353	4115 x 34 x 1,10	95,019
1735 x 13 x 0,65	26,652	2770 x 27 x 0,90	51,446	4120 x 34 x 1,10	95,134
1735 x 13 x 0,90	26,652	2800 x 27 x 0,90	52,003	4250 x 34 x 1,10	98,136
1740 x 13 x 0,90	26,728	2825 x 27 x 0,90	52,468	4460 x 34 x 1,10	102,985
1745 x 13 x 0,90	26,805	2830 x 27 x 0,90	52,560	4500 x 34 x 1,10	103,909
1750 x 13 x 0,90	26,882	2835 x 27 x 0,90	52,653	4570 x 34 x 1,10	105,525
1900 x 20 x 0,90	32,810	2840 x 27 x 0,90	52,746	4600 x 34 x 1,10	106,217
2000 x 20 x 0,90	34,536	2845 x 27 x 0,90	52,839	4860 x 34 x 1,10	112,221
2060 x 20 x 0,90	35,572	2850 x 27 x 0,90	52,932	4970 x 34 x 1,10	114,761
2080 x 20 x 0,90	35,918	2880 x 27 x 0,90	53,489	5300 x 34 x 1,10	122,381
2140 x 20 x 0,90	36,954	2925 x 27 x 0,90	54,326	5400 x 34 x 1,10	124,690
2160 x 20 x 0,90	37,299	2940 x 27 x 0,90	54,603	5600 x 34 x 1,10	129,308
2190 x 20 x 0,90	37,818	2945 x 27 x 0,90	54,696	6150 x 34 x 1,10	142,008
2360 x 20 x 0,90	40,753	2950 x 27 x 0,90	54,788	4550 x 41 x 1,30	152,568
2375 x 20 x 0,90	41,013	3000 x 27 x 0,90	55,718	4870 x 41 x 1,30	163,297
2465 x 20 x 0,90	42,567	3010 x 27 x 0,90	55,904	5100 x 41 x 1,30	171,009
2500 x 20 x 0,90	43,172	3025 x 27 x 0,90	56,183	5250 x 41 x 1,30	176,039
2525 x 20 x 0,90	43,603	3100 x 27 x 0,90	57,575	5300 x 41 x 1,30	177,716
2530 x 20 x 0,90	43,690	3120 x 27 x 0,90	57,947	5400 x 41 x 1,30	181,069
2625 x 20 x 0,90	45,330	3150 x 27 x 0,90	58,503	5450 x 41 x 1,30	182,746
2650 x 20 x 0,90	45,762	3180 x 27 x 0,90	59,061	5550 x 41 x 1,30	186,098
2450 x 27 x 0,90	45,503	3200 x 27 x 0,90	59,433	5620 x 41 x 1,30	188,446
2500 x 27 x 0,90	46,432	3225 x 27 x 0,90	59,896	5800 x 41 x 1,30	194,481
2520 x 27 x 0,90	46,803	3320 x 27 x 0,90	61,662	6150 x 41 x 1,30	206,218
2550 x 27 x 0,90	47,360	3370 x 27 x 0,90	62,589	6380 x 41 x 1,30	213,930
2560 x 27 x 0,90	47,546	3435 x 27 x 0,90	63,796	7400 x 41 x 1,30	248,132

INFORMAZIONE IMPORTANTE
Main tip

All'atto dell'ordine verificare il corretto senso di rotazione desiderato (Standard e/o inverso) in funzione del modello di segatrice
When ordering please verify the sense of rotation you need (STANDARD and/or REVERSE) depending on the machine type

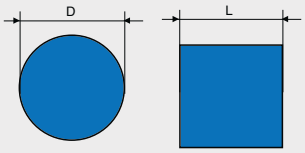


Art. 28020005
€ 120,995
Olio da taglio emulsionabile in tanica 5 Kg (5lt)
Cutting oil tank 5 lt

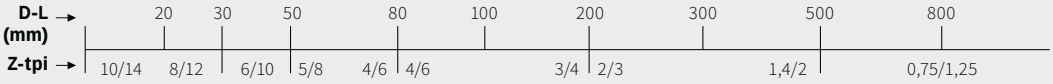


Art. 28020004
€ 37,614
Olio da taglio minerale intero 0,5 lt
Cutting oil 0,5 lt

TABELLA PER LA SCELTA DELLA DENTATURA (PER OGNI TIPO DI LAMA)
Tooth selection

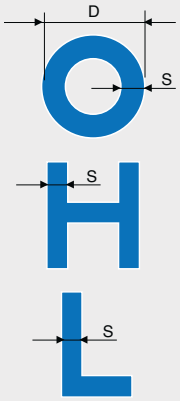


Dentatura variabile - *Variable tooth*
Sezioni piene - *Solid cross section*



Dentatura costante - *Regular tooth*
Sezioni piene - *Solid cross section*





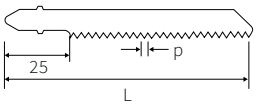
S (mm)	D (mm) 20	40	60	80	100	120	150	200	300	400	500
	Z-tpi										
< 2	14	14	10/14	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10
3	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10	6/10	5/8
4	8/12	8/12	8/12	8/12	8/12	6/10	6/10	6/10	5/8	5/8	4/6
5	8/12	8/12	8/12	6/10	6/10	6/10	6/10	5/8	5/8	5/8	4/6
6	6/10	6/10	6/10	6/10	6/10	6/10	5/8	5/8	5/8	4/6	4/6
8	6/10	6/10	6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6
10		5/8	5/8	5/8	5/8	5/8	4/6	4/6	4/6	4/6	3/4
12		5/8	5/8	5/8	4/6	4/6	4/6	4/6	4/6	3/4	3/4
15		4/6	4/6	4/6	4/6	4/6	3/4	3/4	3/4	3/4	3/4
20			4/6	4/6	3/4	3/4	3/4	3/4	3/4	3/4	2/3
30				3/4	3/4	3/4	2/3	2/3	2/3	2/3	2/3
50						2/3	2/3	2/3	2/3	2/3	2/3

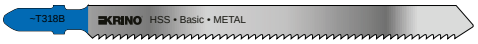
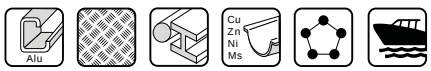
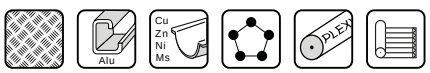
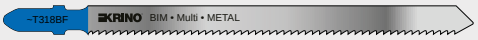
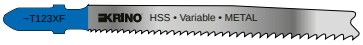
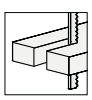
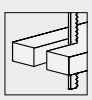
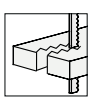
Parametri di taglio
Cutting parameters

Materiale da tagliare *Material to cut*	**Velocità di rotazione lama** *Band saw blade rotation speed m/min.*
Ferro comune, Acciai strutturali / *Iron, Structural steels*	70 ÷ 90
Acciai automatici, Acciai al carbonio / *Free-machining steels, Carbon steels*	70 ÷ 80
Acciai da bonifica / *Heat-treatable steels*	60 ÷ 70
Acciai per cuscinetti / *Ball bearing steels*	55 ÷ 65
Acciai per molle / *Spring steel*	45 ÷ 60
Acciai per stampi / *Mould steels*	25 ÷ 40
Acciai per lavorazioni a freddo / *Cold-working steels*	25 ÷ 40
Acciai per lavorazioni a caldo / *Hot-working steels*	25 ÷ 40
Acciai inossidabili e resistenti agli acidi / *Stainless and acid-resistant steels*	30 ÷ 40
Acciai inossidabili resistenti al calore / *Heat-resistant stainless steels (DUPLEX, SUPER DUPLEX...)*	25 ÷ 35
Leghe speciali a base di Nichel / *Nickel-base alloys (HASTELLOY, INCONEL...)*	15 ÷ 25
Titanio e leghe derivate / *Titanium and derivated alloys*	25 ÷ 45
Ghise lamellari e sferoidali / *Cast irons lamellar and spheroidal*	35 ÷ 55
Metalli non ferrosi quali Alluminio, Rame... / *Non ferrous metals as Aluminium, Copper...*	60 ÷ 200
Materie plastiche / *Plastics*	80 ÷ 400

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BOSCH® PER METALLI
Jig saw blades BOSCH® type for metals

23620

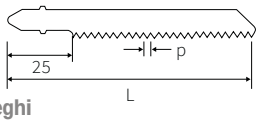


cod. / € conf./pack	simile a / similar to		Lxp mm / inches x tpi	acciaio / steel	tipo di taglio finitura / Type of cut-Finish	impieghi / applications mm
 **23620100** **€ 5,302**	≃T118G	BASIC	76x0,8 *3x32*	HSS Fresata *Milled*		 < 1,5 < 1,5 < 1,5
 **23620110** **€ 5,229**	≃T218A	BASIC	76x1,2 *3x21*	HSS Fresata *Milled*		 < 3 < 3 < 3
 **23620115** **€ 9,059**	≃T318A	BASIC	132x1,2 *5x21*	HSS Fresata *Milled*		 < 65 < 3 < 3 Ø < 65 < 3 Ø < 65 < 3 Ø < 65 < 10 Ø < 65
 **23620125** **€ 9,280**	≃T318B	BASIC	132x2 *5x12*	HSS Fresata *Milled*		 < 6 Ø < 65 < 6 < 6 Ø < 65 < 10 Ø < 50 < 25 Ø < 65 < 10
 **23620130** **€ 9,309**	≃T318AF	MULTI	132x1,2 *5x21*	HSS Fresata *Milled*		 < 65 < 6 < 6 Ø < 65 < 6 Ø < 65 < 6 Ø < 65 < 6
 **23620150** **€ 5,302**	≃T118BFI	MULTI	76x2 *5x12*	HSS Fresata *Milled*		 < 6 < 6 < 6 < 6 < 6 < 6
 **23620155** **€ 9,309**	≃T318BF	MULTI	132x2 *5x12*	HSS Fresata *Milled*		 < 65 < 6 < 6 Ø < 65 < 6 Ø < 65 < 6 Ø < 65 < 15 Ø < 65 < 10
 **23620170** **€ 6,998**	≃T123XF	VARIABLE	100x1,2÷2,6 *4x10÷21*	HSS Fresata *Milled*		 < 10 < 10 < 10 < 10 < 10
 **23620175** **€ 8,338**	≃T118GFS	INOX	82x0,8 *3x32*	HSS Fresata *Milled*		 < 1,5
 **23620180** **€ 7,329**	≃T127D	ALU	100x3 *4x8*	HSS Fresata *Milled*		 < 15 < 15 < 15 < 15 Ø < 30
 **23620185** **€ 5,598**	≃T227D	ALU	100x3 *4x8*	HSS Fresata *Milled*		 < 15 < 15 < 15 < 15 Ø < 30

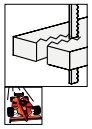
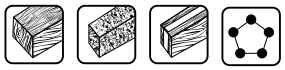
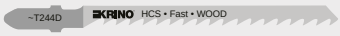
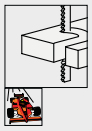
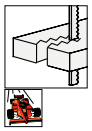
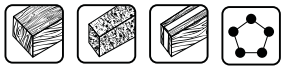
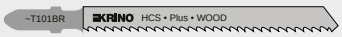
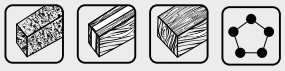
Confezione
Packaging
3 pcs.

LAME PER SEGHETTI ALTERNATIVI
CON ATTACCO BOSCH® PER LEGNO
Jig saw blades BOSCH® type for wood and plywood

23600



Legno dolce
Mild wood

cod. **€ conf.**/*pack*	**simile a** ***similar to***		**Lxp** *mm* *inches x tpi*	**acciaio** ***steel***	**tipo di taglio finitura** ***Type of cut-Finish***	**impieghi** *applications* *mm*
 **23600100** **€ 3,903**	≃T119B	BASIC	76x2 *3x12*	HCS Fresata *Milled*		 < 15 < 15 < 15
 **23600105** **€ 3,903**	≃T119B0	BASIC	76x2 *3x12*	HCS Fresata *Milled*		 < 15 < 15 < 15
 **23600110** **€ 3,020**	≃T111C	BASIC	100x3 *4X8*	HCS Fresata *Milled*		 < 50 < 50 < 50 < 5 Ø < 30
 **23600130** **€ 5,451**	≃T144D	FAST	100X4 *4X6*	HCS Rettificata *Ground*		 < 50 < 50 < 50 < 5 Ø < 50
 **23600135** **€ 5,892**	≃T244D	FAST	100X4 *4X6*	HCS Rettificata *Ground*		 < 50 < 50 < 50 < 5 Ø < 50
 **23600140** **€ 7,218**	≃T344D	FAST	132X4 *5X6*	HCS Rettificata *Ground*		 < 100 < 100
 **23600150** **€ 5,598**	≃T101AO	PLUS	76X1,4 *3X18*	HCS Rettificata *Ground*		 < 15 < 15 < 15
 **23600155** **€ 6,702**	≃T101B	PLUS	100x2,5 *4x10*	HCS Rettificata *Ground*		 < 30 < 30 <30 < 5 Ø < 30
 **23600160** **€ 11,342**	≃T101BR	REVERSE	100x2,5 *4x10*	HCS Rettificata *Ground*		 < 30 < 30 <30 < 5 Ø < 30

Confezione
Packaging
3 pcs.

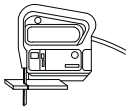
Esempio di interpretazione della colonna "Impieghi (mm)":
How to read the "Application (mm)" column:


< 50

Idoneo al taglio di legno stratificato dello spessore massimo di 50 mm
Suitable for cutting stratified wood – max thickness 50 mm


< 5
Ø < 50

Idoneo al taglio di plastica in lastre con spessori fino a 5 mm
e profili con dimensione massima 50 mm
Suitable for cutting plastics sheet (max thickness 5 mm)
and plastics pipes / structural (max dimension 50 mm)

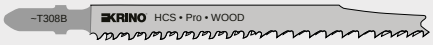
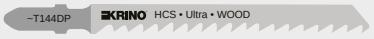
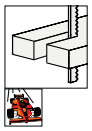


AEG, ATLAS COPCO, BOSCH,
DE WALT, ELU, FESTOOL, HITACHI,
MAKITA, METABO, HILTI, MAFELL,
MILWAUKEE, RYOBI, SKIL,...(®)

LAME PER SEGHETTI ALTERNATIVI
CON ATTACCO BOSCH® PER LEGNO
Jig saw blades BOSCH® type for wood and plywood

23600

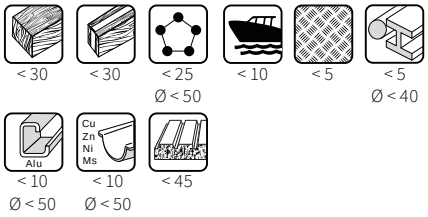
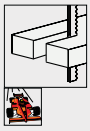
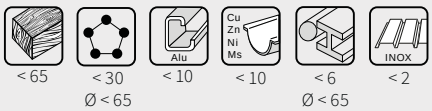
Legno dolce
Mild wood

cod. / € conf./pack	simile a / similar to		Lxp mm / inches x tpi	acciaio / steel	tipo di taglio finitura / Type of cut-Finish	impieghi / applications mm
				HCS		
23600170 **€ 8,934**	≃ T308B	PRO	116x2,2 *4½x11*	Rettificata *Ground*		 < 65 < 65 < 65
				HCS		
23600175 **€ 8,934**	≃ T308B0	PRO	116x2,2 *4½x11*	Rettificata *Ground*		 < 65 < 65 < 65
				HCS		
23600180 **€ 3,535**	≃ T144DP	ULTRA	100x4 *4X6*	Rettificata *Ground*		 < 50 < 50 < 50 < 5 Ø < 30
				HCS		
23600190 **€ 8,934**	≃ T234X	VARIABLE	116x2÷3 *4½x8÷12*	Rettificata *Ground* HCS		 < 65 < 65 < 65

Confezione
Packaging
3 pcs.

23610

Legno duro
Hard wood

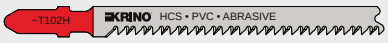
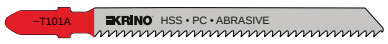
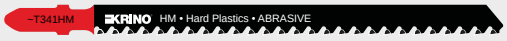
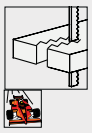
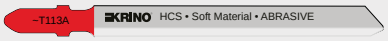
cod. / € conf./pack	simile a / similar to		Lxp mm / inches x tpi	acciaio / steel	tipo di taglio finitura / Type of cut-Finish	impieghi / applications mm
				HCS		
23610105 **€ 16,328**	≃ T344DF	FAST	152x4 *6X6*	Rettificata *Ground*		 < 65 < 100 < 100 < 100
				HCS		
23610120 **€ 10,311**	≃ T101BF	PLUS	100x2,5 *4X10*	Rettificata *Ground*		 < 30 < 30 < 25 Ø < 50 < 10 < 5 < 5 Ø < 40 Alu < 10 Ø < 50 Cu Zn Ni Ms < 10 Ø < 50 < 45
				HCS		
23610125 **€ 10,311**	≃ T101BRF	REVERSE	100x2,5 *4X10*	Rettificata *Ground*		 < 30 < 30 < 25 Ø < 50 < 45
				HCS		
23610140 **€ 9,295**	≃ T101BIF	LAMINATE	82x1,7 *3X15*	Rettificata *Ground*		 < 15 < 15 < 15
				HCS		
23610150 **€ 12,227**	≃ T345XF	VARIABLE	132x2,4÷5 *5X5÷10*	Fresata *Milled*		 < 65 < 30 Ø < 65 Alu < 10 Cu Zn Ni Ms < 10 < 6 Ø < 65 INOX < 2

Confezione
Packaging
3 pcs.

LAME PER SEGHETTI ALTERNATIVI
CON ATTACCO BOSCH® PER APPLICAZIONI SPECIALI
Jig saw blades BOSCH® type for special applications

23630

Applicazioni speciali
Special applications

cod. / € conf./pack	simile a / similar to		Lxp mm / inches x tpi	acciaio / steel	tipo di taglio finitura / Type of cut-Finish	impieghi / applications mm
						
23630090 € 4,611	≃T102H	PVC	100x2,3 *4x11*	HCS Rettificata *Ground*		 < 15 Ø < 30
						
23630100 € 8,101	≃T101A	PC	76x1,4 *3x18*	HSS Rettificata *Ground*		 < 15 < 15 < 15
						
23630130 € 37,239	≃T341HM	HARD PLASTICS	132x4 *5x6*	 Con inserti in MD *Carbide tip*		 < 50 < 80 < 20
						
23630150 € 12,227	≃T150RIFF	GRIT 50	76 grana 50 *3*	 Con grani in MD *Carbide grit*		 < 10 < 10 < 10 < 4
						
23630160 € 4,810	≃T113A	SOFT	100 *4*	HCS Rettificata *Ground*		 < 50 < 10

Confezione
Packaging
3 pcs.

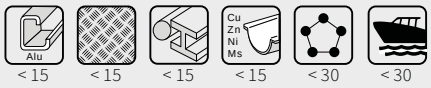
Tabella di comparazione
Choosing chart

Codice Bosch / Bosch code	Codice Krino / Krino code	Codice Bosch / Bosch code	Codice Krino / Krino code
≈T101A	23630100	**≈T144D**	23600130
≈T101AO	23600150	**≈T144DP**	23600180
≈T101B	23600155	**≈T150RIFF**	23630150
≈T101BF	23610120	**≈T218A**	23620110
≈T101BIF	23610140	**≈T227D**	23620185
≈T101BR	23600160	**≈T234X**	23600190
≈T101BRF	23610125	**≈T244D**	23600135
≈T102H	23630090	**≈T308B**	23600170
≈T111C	23600110	**≈T308BO**	23600175
≈T113A	23630160	**≈T318A**	23620115
≈T118BF	23620150	**≈T318AF**	23620130
≈T118G	23620100	**≈T318B**	23620125
≈T118GFS	23620175	**≈T318BF**	23620155
≈T119B	23600100	**≈T341HM**	23630130
≈T119BO	23600105	**≈T344D**	23600140
≈T123XF	23620170	**≈T344DF**	23610105
≈T127D	23620180	**≈T345XF**	23610150

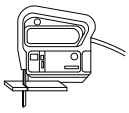
LAME PER SEGHETTI ALTERNATIVI
CON ATTACCO BLACK&DECKER® PER METALLO
Jig saw blades BLACK & DECKER® type for metals

23710

Metalli
Metals

cod. / € conf./pack	simile a / similar to		Lxp mm / inches x tpi	acciaio / steel	tipo di taglio finitura / Type of cut-Finish	impieghi / applications mm
 23710100 € 5,818	≃ U118A	BASIC	76x1,2 *3x21*	HSS Fresata *Milled*		 < 3 < 3 < 3
 23710105 € 5,818	≃ U118B	BASIC	76x2 *3x12*	HSS Fresata *Milled*		 < 6 < 6 < 6
 23710115 € 7,365	≃ U127D	ALU	100x3 *4x8*	HSS Fresata *Milled*		 < 15 < 15 < 15 < 15 < 30 < 30

Confezione
Packaging
3 pcs.

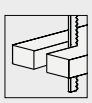


BLACK&DECKER,
KRESS, RYOBI, SKIL,...(®)

SEGHETTI BIMETAL CON ATTACCO SPECIALE SIG
PER MACCHINE PNEUMATICHE ED ELETTRICHE, SPECIALI PER CARROZZERIA
Compressed-air saw blades

23720

Metalli
Metals

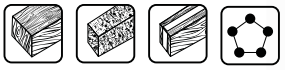
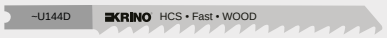
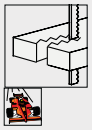
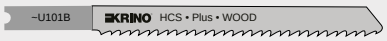
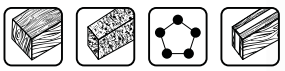
cod. / € conf./pack	simile a / similar to	Lxp mm / inches x tpi	acciaio / steel	tipo di taglio finitura / Type of cut-Finish	impieghi / applications mm
 23720100 € 11,717	≃ SIG1150	95x1,8 *3¾x14*	BIM HSS Fresata *Milled*		
 23720105 € 11,717	≃ SIG1152	95x1 *3¾x25*	BIM HSS Fresata *Milled*		
 23720110 € 11,717	≃ SIG1153	95x0,7 *3¾x36*	BIM HSS Fresata *Milled*		

Confezione
Packaging
5 pcs.

LAME PER SEGHETTI ALTERNATIVI
CON ATTACCO BLACK&DECKER® PER LEGNO
Jig saw blades BLACK&DECKER® type for wood and plywood

23700

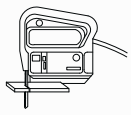
Legno dolce
Mild wood

cod. / € conf./pack	simile a / similar to		Lxp mm / inches x tpi	acciaio / steel	tipo di taglio finitura / Type of cut-Finish	impieghi / applications mm
				HCS		
23700100 **€ 3,020**	≃U111C	BASIC	100x3 *4x8*	Fresata *Milled*		< 50 < 50 < 50 < 5 Ø < 30
				HCS		
23700105 **€ 3,027**	≃U111D	BASIC	100x4 *4x6*	Fresata *Milled*		< 65 < 65 < 65 < 5 Ø < 50
				HCS		
23700110 **€ 3,668**	≃U144D	FAST	100x4 *4x6*	Rettificata *Ground*		< 65 < 65 < 65 < 5 Ø < 30
				HCS		
23700115 **€ 5,944**	≃U1AO	PLUS	76x1,4 *3x18*	Rettificata *Ground*		< 15 < 15 < 15 < 15
				HCS		
23700120 **€ 6,408**	≃U101B	PLUS	100x2,5 *4x10*	Rettificata *Ground*		< 45 < 45 < 5 < 45
				HCS		
23700125 **€ 6,408**	≃U101D	PLUS	100x4 *4x6*	Rettificata *Ground*		< 45 < 45 < 5 < 45
				HCS		
23700130 **€ 9,648**	≃U234X	VARIABLE	106x2÷3 *4x8÷12*	Rettificata *Ground*		< 65 < 65 < 65

Confezione
Packaging
3 pcs.

Tabella di comparazione
Choosing chart

Codice Bosch / Bosch code	Codice Krino / Krino code
≈U101B	23700120
≈U101D	23700125
≈U111C	23700100
≈U111D	23700105
≈U118A	23710100
≈U118B	23710105
≈U127D	23710115
≈U144D	23700110
≈U1AO	23700115
≈U234X	23700130

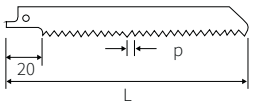


BLACK&DECKER,
KRESS, RYOBI, SKIL,...(®)

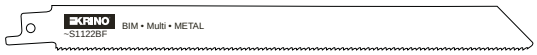
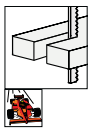
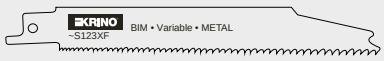
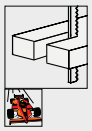
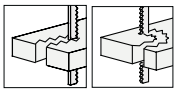
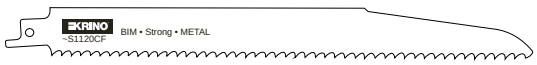
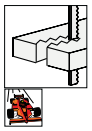
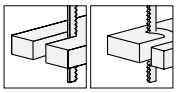
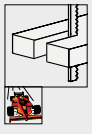
HCS • Variable • WOOD

LAME PER SEGHETTI A GATTUCCIO
CON ATTACCO UNIVERSALE SABRE® PER METALLO
Reciprocating blades SABRE® universal type for metals

23810



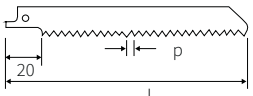
Metalli
Metals

cod. **€ conf.**/*pack*	**simile a** ***similar to***	**Lxp** *mm* *inches x tpi*	**acciaio** ***steel***	**tipo di taglio** **finitura** ***Type of cut-Finish***	**impieghi** *applications* *mm*
 **23810100** **€ 9,324**	≃ S922EF	150x1,4 *6x18*	BIM HSS  Fresata *Milled*		 < 4 < 4 Ø < 100 Ø < 100
 **23810110** **€ 12,316**	≃ S1122BF	230x1,8 *9x14*	BIM HSS  Fresata *Milled*		 < 8 < 8 Ø < 175 Ø < 175
 **23810120** **€ 9,280**	≃ S123XF	150x1,8÷3,2 *6x8÷14*	BIM HSS  Fresata *Milled*		 < 8 < 8 Ø < 100 Ø < 100
 **23810150** **€ 17,624**	≃ S1126CHF	230x2,5÷3,2 *9x8÷10*	BIM HSS  Fresata *Milled*		 < 12 < 12 Ø < 250 Ø < 250
 **23810160** **€ 11,498**	≃ S925VF EXTREME	150x1,8÷2,6 *6x10÷14*	BIM HSS  Fresata *Milled*		 < 10 < 10 Ø < 150 Ø < 150
 **23810170** **€ 21,183**	≃ S1120CF EXTREME	230x2,5÷3,2 *9x8÷10*	BIM HSS  Fresata *Milled*		 < 12 < 12 Ø < 175 Ø < 175
 **23810175** **€ 10,621**	≃ S936BEF	150x1,4÷1,8 *6x14÷18*	BIM HSS  Fresata *Milled*		 < 8 < 8 Ø < 100 Ø < 100
 **23810180** **€ 14,620**	≃ S1136BEF	230x1,4÷1,8 *9x14÷18*	BIM HSS  Fresata *Milled*		 < 8 < 8 Ø < 175 Ø < 175
 **23810190** **€ 17,265**	≃ S522BF Ideale con macchine compatte cordless *Suitable for compact cordless machines*	100x1,8 *4x14*	BIM HSS  Fresata *Milled*		 < 8

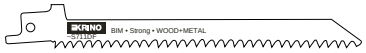
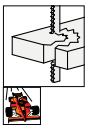
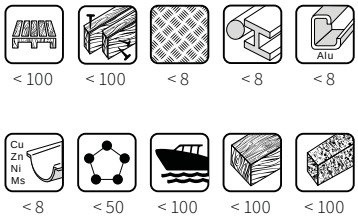
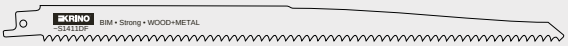
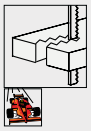
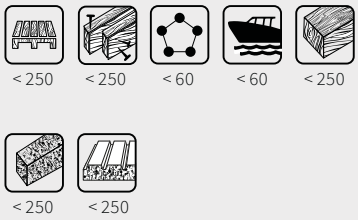
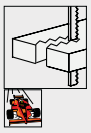
Confezione
Packaging
2 pcs.

LAME PER SEGHETTI A GATTUCCIO
CON ATTACCO UNIVERSALE SABRE® PER LEGNO E METALLO
Reciprocating blades SABRE® universal type for wood and metals

23815



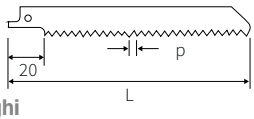
Legno e Metalli
Wood and Metals

cod. **€ conf.**/*pack*	**simile a** ***similar to***	**Lxp** *mm* *inches x tpi*	**acciaio** ***steel***	**tipo di taglio** **finitura** ***Type of cut-Finish***	**impieghi** *applications* *mm*
 **23815100** **€ 12,345**	≃ S1122HF	230x2,5 *9x10*	BIM HSS Fresata *Milled*		 < 175 < 175 < 12 < 12 < 12
 **23815110** **€ 9,464**	≃ S711DF	150x4,3 *6x6*	BIM HSS Fresata *Milled*		 < 100 < 100 < 8 < 8 < 8 < 8 < 50 < 100 < 100 < 100
 **23815115** **€ 19,687**	≃ S1411DF	300x4,3 *12x6*	BIM HSS Fresata *Milled*		 < 250 < 250 < 60 < 60 < 250 < 250 < 250
 **23815130** **€ 12,498**	≃ S1122VFR	NO VIBRATIONS 230x1,8÷2,6 *9x10÷14*	BIM HSS Fresata *Milled*		 < 175 < 175
 **23815150** **€ 17,265**	≃ S511DF	Ideale con macchine compatte cordless *Suitable for compact cordless machines* 100x4,3 *4x6*	BIM HSS Fresata *Milled*		 < 50 < 50 < 50 < 50 < 50

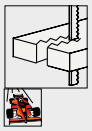
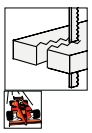
Confezione
Packaging
2 pcs.

LAME PER SEGHETTI A GATTUCCIO
CON ATTACCO UNIVERSALE SABRE® PER LEGNO
Reciprocating blades SABRE® universal type for wood and plywood

23800



Legno dolce
Mild wood

cod. **€ conf.**/*pack*	**simile a** *similar to*	**Lxp** *mm inches x tpi*	**acciaio** *steel*	**tipo di taglio finitura** *Type of cut-Finish*	**impieghi** *applications mm*
 **23800100** **€ 13,464**	≃ S1617K	300x8,5 *12x3*	HCS  Fresata *Milled*		 < 250 < 250
 **23800105** **€ 14,606**	≃ S2345X	200x2,5÷4,3 *8x6÷10*	HCS  Fresata *Milled*		 < 150 < 60 < 150
 **23800110** **€ 8,639**	≃ S644D	150x4,3 *6x6*	HCS  Fresata *Milled*		 < 100 < 60 < 100
 **23800115** **€ 11,527**	≃ S1531L	240x5 *10x5*	HCS  Fresata *Milled*		 < 190 < 190

Confezione
Packaging



2 pcs.



Codolo universale 1/2”
Universal shank 1/2”



AEG, ATLAS COPCO, BOSCH, DE WALT, ELU, FESTOOL, HITACHI, MAKITA, METABO, FEIN, FLEX, HILTI, MILWAUKEE, PORTER CABLE, RIDGID, ROTHEN BERGER, RYOBI SKIL,...(®)

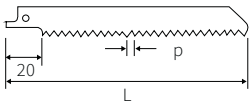
Tabella di comparazione
Choosing chart

Codice Bosch *Bosch code*	Codice Krino *Krino code*
≈S1120CF	23810170
≈S1122BF	23810110
≈S1122HF	23815100
≈S1122VFR	23815130
≈S1126CHF	23810150
≈S1136BEF	23810180
≈S123XF	23810120
≈S1411DF	23815115
≈S1531L	23800115
≈S1617K	23800100
≈S2041HM	23820120

Codice Bosch *Bosch code*	Codice Krino *Krino code*
≈S2243HM	23820130
≈S2345X	23800105
≈S511DF	23815150
≈S522BF	23810190
≈S528DF	23820160
≈S628DF	23820100
≈S644D	23800110
≈S711DF	23815110
≈S922EF	23810100
≈S925VF	23810160
≈S936BEF	23810175

LAME PER SEGHETTI A GATTUCCIO
CON ATTACCO UNIVERSALE SABRE® PER LEGNO
Reciprocating blades SABRE® universal type for wood and plywood

23820



Applicazioni speciali
Special applications

cod. / € conf./pack	simile a / similar to		Lxp mm / inches x tpi	acciaio / steel	tipo di taglio finitura / Type of cut-Finish	impieghi / applications mm
 23820100 € 11,688	≃ S628DF		150x4,3 6x6	BIM HSS Fresata Milled		< 100
 23820125 € 73,548	≃ S1543HM		Carbide 240x12,7 10x2	Con inserti in MD Carbide tip		< 150
 23820160 € 17,265	≃ S528DF	Ideale con macchine compatte cordless Suitable for compact cordless machines	100x4,3 4x6	BIM HSS Fresata Milled		< 50

Confezione
Packaging



2 pcs.

cod. / € conf./pack	simile a / similar to		Lxp mm / inches x tpi	acciaio / steel	tipo di taglio finitura / Type of cut-Finish	impieghi / applications mm
 23820120 € 41,246	≃ S2041HM		Carbide 400x8,5 16x3	Con inserti in MD Carbide tip		< 350 < 350 < 150
 23820130 € 65,043	≃ S1531L	EXTREME	Carbide 455x12,7 18x2	Con inserti in MD Carbide tip		< 365

Confezione
Packaging



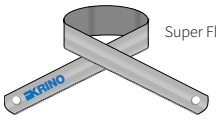
1 pc.

23001 BIMETAL HSS-CO8% SUPERFLEX ~UNI 4000





HRC 66÷67
HRC 40÷42



Super Flex

Applicazioni
Applications



Inox
Stainless



Acciaio
Steel



Alluminio
Aluminum



Metalli
Metals

Cod.	dimensioni *sizes*	z n. denti *T.p.i.*	pcs.	€ cad/each
23001101	300x13x0,65 12"x1/2x0,025	18	100	**2,662**
23001100	300x13x0,65 12"x1/2x0,025	24	100	**2,662**
23001102	300x13x0,65 12"x1/2x0,025	32	100	**2,662**

Caratteristiche:
Lama di grandissima qualità con una durezza sui denti di circa 67 gradi Rockwell C, notevolmente superiore ad una lama tradizionale.
Il corpo, più dolce, garantisce una perfetta flessibilità, pur mantenendo una buona rigidità torsionale, per un lavoro preciso e sicuro.
Queste caratteristiche permettono un taglio ineguagliabile per dolcezza, rendimento, precisione e durata negli acciai inox, acciai duri legati, acciai da costruzione, leghe leggere, tutti i metalli, etc.

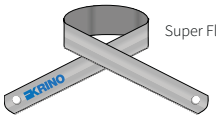
Features:
High performances, safe and smooth cut in stainless steel, high alloy steel, structural steel, light alloys, metals.

HSS-BIMETAL ~UNI 4000





HRC 64
HRC 38÷40



Super Flex

Cod.	dimensioni *sizes*	z n. denti *T.p.i.*	pcs.	€ cad/each
23001110	300x13x0,65 12"x1/2x0,025	18	100	**2,292**
23001120	300x13x0,65 12"x1/2x0,025	24	100	**2,292**
23001130	300x13x0,65 12"x1/2x0,025	32	100	**2,292**

Caratteristiche:
Lama superflessibile professionale per il taglio degli acciai duri, dolci, tutti i metalli.

Features:
Shatterproof blades for cutting iron, alloy steel, light alloys, any kind of metal.

HSS ~UNI 4000





HRC 64



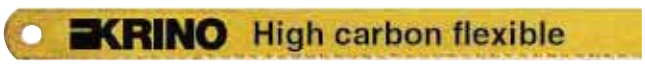
Art. 21141 Self
Disponibile su richiesta
On demand

Cod.	dimensioni *sizes*	z n. denti *T.p.i.*	pcs.	€ cad/each
23001150	300x13x0,65 12"x1/2x0,025	24	100	**2,218**

Caratteristiche:
Lama professionale HSS a tempra integrale per un taglio preciso ad alto rendimento in tutti gli acciai duri, acciai in genere, leghe leggere, metalli.

Features:
All hard HSS hack saw blades.

HIGH CARBON FLEXIBLE ~UNI 4000





HRC 60

Confezione
Packaging



Cod.	dimensioni *sizes*	z n. denti *T.p.i.*	pcs.	€ cad/each
23001160	300x13x0,65 12"x1/2x0,025	24	100	**0,521**

Caratteristiche:
Lama in acciaio da utensile per il taglio occasionale e non professionale di materiali dolci.

Features:
Carbon flexible hack saw blades for occasional usage.

LAMA A MANO RIVESTITA IN GRANI DI CARBURO DI TUNGSTENO PER IL TAGLIO DEI MATERIALI PIÙ DURI ED ABRASIVI
Carbide grit-edge hack saw blades

23010



Confezione
Packaging



Art. 23011 Self
Disponibile su richiesta
On demand







Cod.	dimensioni *sizes*	pcs.	€ cad/each
23010060	300x13x0,65 12”x1/2x0,025	10	**7,511**

Caratteristiche:
Le particelle di carburo di tungsteno sono metallurgicamente e permanentemente legate al corpo in acciaio e permettono il taglio di materiali duri che una normale lama non può neanche scalfire.

Taglio piano e dolce, in entrambe le direzioni in: bulloni, catene, acciai duri trattatati in barre o tubi, ceramica, marmo, granito, gres, fibra di cemento, fibra di vetro, cristallo.

Features:
Carbide grit particles permanently bounded to alloy steel, designed to cut materials that a standard won't even scratch. Straight cuts in hardened steel, such as chain and bolts, as well as ceramic tile, stranded cable, hydraulic hose and glass.

LAME IN FILO TONDO IN CARBURO DI TUNGSTENO PER TAGLI IN QUALSIASI DIREZIONE DI TUTTI I MATERIALI DIFFICILI DA LAVORARE
Carbide grit-edge rod saws

23005



Confezione
Packaging



Art. 23006 Self
Disponibile su richiesta
On demand





Cod.	dimensioni *sizes*	pcs.	€ cad/each
23005050	300 12”	10	**7,015**

Caratteristiche:
Le particelle di carburo di tungsteno sono permanentemente legate al corpo di acciaio e permettono un taglio piano o curvo in tutte le direzioni, anche nelle posizioni inaccessibili ad altri utensili.

Taglia in modo dolce e progressivo:
- Acciaio inox e acciai duri trattati, tutti gli acciai in genere.
- Bulloni, catene temperate, cavi di trazione
- Ceramica, marmo, granito, gres, fibra di cemento
- Vetro e cristallo

Sostituisce il tagliabulloni, le mole abrasive ed il taglio all'acetilene per molte operazioni!

Features:
Carbide grit particles permanently bounded to alloy steel, designed to cut materials that a standard won't even scratch. Straight cuts in hardened steel, such as chain and bolts, as well as ceramic tile, stranded cable, hydraulic hose and glass.

23012 Lama a mano per seghetti tipo “PUK®”
Hack saw blades type “PUK®”



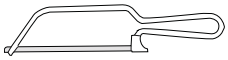
HCS

Art. 23012 Self
Disponibile su richiesta
On demand

Confezione
Packaging



Cod.	dimensioni *sizes*	z *T.p.i.*	pcs.	€ cad/each
23012100	150 mm 6”	24	10	**0,941**



UTENSILI PER MACCHINE AD OSCILLAZIONE
Tools for oscillating machines

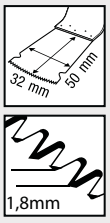
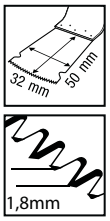
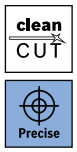
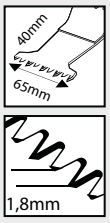
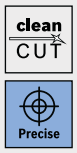
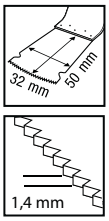
Rif. Bosch	Pavimento *Floor*	Costruzioni *Buildings*	Automotive	Superfici piastrellate *Tiled surfaces*
				
ASZ32SC	Materiali flessibili *Flexible materials*	Materiali isolanti *Insulating materials*		
ATZ52SC	Residui di moquette e colla *Residues of carpet and glue*			Malta per piastrelle *Tile mortar*
AVZ93G	Legno dolce, legno duro, parquet, vernici e pitture. *Softwood, hardwood, parquet, paints* Compensato, truciolato, laminato, pannelli rivestiti in plastica, materiali plastici teneri *Plywood, chipboard, laminate, plastic coated panels, soft plastics*		Compositi *Composites* Profili in metalli non ferrosi, lamiere fino a 1 mm *Profiles in non-ferrous metals, sheets up to 1 mm*	
AIZ32BSPB	Legno duro, compensato, truciolato, parquet, laminato, pannelli rivestiti in plastica. *Hardwood, plywood, chipboard, parquet, laminate, plastic coated panels* Legno dolce, materiali plastici teneri *Soft wood, soft plastic materials*	Cartongesso, materiali stratificati *Drywall, laminated materials*	Compositi *Composites*	
AIZ32BSPC	Legno dolce. *Softwood* Legno duro, compensato, parquet, pannelli rivestiti in plastica, materiali plastici teneri *Hardwood, plywood, parquet, plastic coated panels, soft plastics*			
AII65BSPC	Legno dolce. *Softwood* Legno duro, compensato, parquet, pannelli rivestiti in plastica, materiali plastici teneri *Hardwood, plywood, parquet, plastic coated panels, soft plastics*			
AIZ32EPC	Legno dolce. *Softwood* Legno duro, compensato, parquet, pannelli rivestiti in plastica, materiali plastici teneri *Hardwood, plywood, parquet, plastic coated panels, soft plastics*			
ACZ85EB	Legno dolce. *Softwood* Legno duro, compensato, truciolato, parquet, laminato, pannelli rivestiti in plastica, materiali plastici teneri *Hardwood, plywood, chipboard, parquet, laminate, plastic coated panels, soft plastics*	Materiali stratificati *Multilayer materials* Cartongesso, pannelli in fibra e cemento *Drywall, fiber and cement panels*	Profili in metallo non ferrosi, chiodi e viti non temprati *Non-ferrous metal profiles, nails and screws not hardened* Compositi, Lamiere fino a 1 mm *Composites, sheets up to 1 mm*	Materiale sigillante *Sealing material*
AIZ20AB	Legno duro, compensato, truciolato, laminato, pannelli rivestiti in plastica *Hardwood, plywood, chipboard, laminate, plastic coated panels* Parquet, materiali teneri *Parquet, soft materials*	Cartongesso *Drywall* Materiali stratificati, pannelli in fibra e cemento *Laminated materials, fiber and cement panels*	Profili in metalli non ferrosi, lamiere fino a 1 mm, chiodi e viti non temprati *Profiles in non-ferrous metals, sheets up to 1 mm, nails and screws not hardened* Compositi. *Composites*	
AIZ32APB	Legno duro, compensato, truciolato, laminato, pannelli rivestiti in plastica *Hardwood, plywood, chipboard, laminate, plastic coated panels* Parquet, materiali teneri *Parquet, soft materials*	Materiali stratificati *Multilayer materials* Cartongesso, pannelli in fibra e cemento *Drywall, fiber and cement panels*	Lamiere fino a 1 mm, chiodi e viti non temprati. *Plates up to 1 mm, nails and screws not hardened* Compositi, profili in metalli non ferrosi *Composites, profiles in non-ferrous metals*	
AII65APB	Legno dolce. *Softwood* Legno duro, compensato, truciolato, parquet,pannelli rivestiti in plastica, materiali plastici teneri *Hardwood, plywood, chipboard, parquet, plastic-coated panels, soft plastics*			
AIZ32AB	Legno dolce, legno duro, compensato, truciolato, parquet, pannelli rivestiti in plastica, materiali plastici teneri *Softwood, hardwood, plywood, chipboard, parquet, plastic-coated panels, soft plastics*	Cartongesso. *Drywall* Materiali stratificati, pannelli in fibra e cemento *Laminated materials, fiber and cement panels*	Profili in metalli non ferrosi, lamiere fino a 1 mm, chiodi e viti non temprati *Profiles in non-ferrous metals, sheets up to 1 mm, nails and screws not hardened* Compositi. *Composites*	
AIZ20AT	Legno dolce, legno duro, compensato, truciolato, parquet, pannelli rivestiti in plastica, materiali plastici teneri *Softwood, hardwood, plywood, chipboard, parquet, plastic-coated panels, soft plastics*	Cartongesso, pannelli in fibra e cemento *Drywall, fiber and cement panels* Materiali stratificati *Mulitlayers*	Compositi, profili in metalli non ferrosi, lamiere fino a 1 mm, chiodi e viti temprati e non. *Composites, profiles in non-ferrous metals, sheets up to 1 mm, hardened and nails and screws*	Calcestruzzo poroso *Porous concrete*
ACZ85RT3		Pannelli in fibra e cemento *Fiber and cement panels* Cartongesso *Drywall*	Compositi *Composites*	Malta per fughe (2-3 mm), malta per piastrelle. *Mortar for joints (2-3 mm), grout for tiles* Piastrelle da parete tenere. *Wall tiles*
AVZ70RT4	Residui di moquette e colla *Residues of carpet and glue*	Pannelli in fibra e cemento *Fiber and cement panels* Cartongesso *Drywall*	Compositi *Composites*	Malta per fughe (2-3 mm), malta per piastrelle. *Mortar for joints (2-3 mm), grout for tiles* Piastrelle da parete tenere. *Wall tiles*
AVZ78RT2		Pannelli in legno *Wood panels*		Malta per fughe (2-3 mm), malta per piastrelle. *Mortar for joints (2-3 mm), grout for tiles* Piastrelle da parete tenere. *Wall tiles*

In nero le applicazioni ottimali, **in blu** le applicazioni adatte.
*The recommended applications **in black**, the basic applications **in blue color.***

23405 ATTACCO STARLOCK®

Starlock® tools

Legno
Wood

cod.	rif. Bosch	materiale *material*	dimensioni *dimensions*	caratteristiche features	impieghi *applications*
 **23405100** **€ 28,055**	AIZ32BSPB	Bimetal Curved TECH	 14 tpi		 Legno duro, multistrato, plastica *Hard wood, plywood, plastic*
 **23405105** **€ 21,676**	AIZ32BSPC	HCS Curved TECH	 14 tpi		 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Soft wood, plywood, plastic* ***(eg center cut in massive wood for mounting an aeration grid).***
 **23405110** **€ 27,039**	AII65BSPC Flat Konvex	HCS Curved TECH	 14 tpi		 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Soft wood, plywood, plastic* ***(eg center cut in massive wood for mounting an aeration grid).***
 **23405115** **€ 21,676**	AIZ32EPC	HCS Curved TECH	 18 tpi		 Legno dolce, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Soft wood, plastic (eg center cut* ***in massive wood for mounting an aeration grid).***

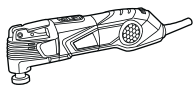
Confezione
Packaging



1 pc.

Tabella di comparazione
Choosing chart

Codice Bosch *Bosch code*	Codice Krino *Krino code*	Codice Bosch *Bosch code*	Codice Krino *Krino code*
ACZ85EB	23410100	**AIZ32BSPB**	23405100
ACZ85RT3	23415100	**AIZ32BSPC**	23405105
AII65APB	23410115	**AIZ32EPC**	23405115
AII65BSPC	23405110	**ASZ32SC**	23400100
AIZ20AB	23410105	**ATZ52SC**	23400105
AIZ20AT	23410125	**AVZ70RT4**	23415105
AIZ32AB	23410120	**AVZ78RT2**	23415115
AIZ32APB	23410110	**AVZ93G**	23400110

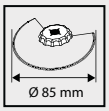
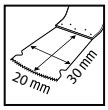
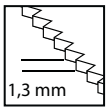
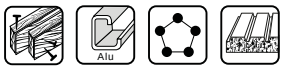
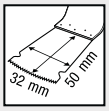
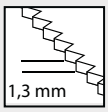
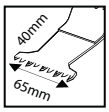
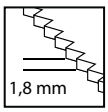
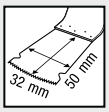
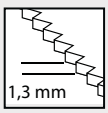
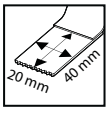
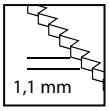


Per macchine multifunzione
To fit multipurpose machines

Starlock, Starlock Plus, Starlock Max, Milwaukee, Fein, Craftsman, Ridgid, Einhell, Westfalia, Chicago Electric, (®)... Dremel, Dewalt, B&D, Porter Cable, Rockwell, Worx, Multi2pro, Mastercraft (®) c

23410 ATTACCO STARLOCK®
Starlock® tools

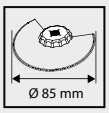
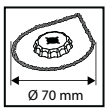
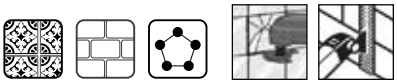
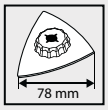
Legno, metallo, plastiche
Wood, metal, plastics

cod.	rif. Bosch	materiale *material*	dimensioni *dimensions*	caratteristiche features	impieghi *applications*
 **23410100** **€ 36,922**	ACZ85EB	BIM		long LIFE	 Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). Parquet, plywood s <20 mm, epoxy plastic. *Truncated cuts and cuts from the center, also for cuts near the edges, in the corners and in sectors that are difficult to access (eg cuts of assembled skirting boards or door frames).*
 **23410105** **€ 16,483**	AIZ20AB	Bimetal	  19 tpi	long LIFE	 Legno con chiodi, legno duro, cartongesso, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). *Wood with nails, hardwood, plasterboard, epoxy plastic, insulating sandwiches (eg door frame cuts, paneled cuts, non-ferrous pipe cuts and small profiles).*
 **23410110** **€ 28,055**	AIZ32APB	Bimetal Curved TECH	  19 tpi	long LIFE Precise	 Legno con chiodi, legno duro, sandwich isolanti, alluminio, plastica epossidica (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). *Wood with nails, hardwood, insulating sandwich, aluminum, epoxy plastic (eg cuts of door frames, cuts in coated panels, pipe cuts in non-ferrous material and small profiles).*
 **23410115** **€ 34,380**	AII65APB Flat	Bimetal Curved TECH	  14 tpi	long LIFE Precise	 Legno con chiodi, legno duro, sandwich isolanti, plastica epossidica (es. tagli di telai di porte, aperture per un ripiano). *Wood with nails, hardwood, insulating sandwiches, epoxy plastic (eg cuts of door frames, openings for a shelf).*
 **23410120** **€ 24,950**	AIZ32AB	BIM	  19 tpi	long LIFE	 Legno con chiodi, alluminio, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). *Wood with nails, aluminum, epoxy plastic, insulating sandwiches (eg cuts of door frames, cuts in coated panels, pipe cuts in non-ferrous material and small profiles).*
 **23410125** **€ 37,751**	AIZ20AT	TC/HM	  23 tpi	extra long LIFE	 Legno con chiodi, metallo con HRC 40÷50, acciaio inox, polimeri rinforzati con fibre. *Wood with nails, metal with HRC 40÷50, stainless steel, polymers reinforced with fibers.*

23415

ATTACCO STARLOCK®
Starlock® tools

Materiali Abrasivi
Abrasives

cod.	rif. Bosch	materiale *material*	dimensioni *dimensions*	caratteristiche features	impieghi *applications*
  **23415100** **€ 52,203**	ACZ85RT3	TC/HM	 	 	 Mattoni e cemento, piastrelle, plastica epossidica (es. rimuovere fughe tra piastrelle, tagliare cavità in piastrelle, pannelli di gesso o plastiche rinforzate). *Bricks and cement, tiles, epoxy plastics (eg removing joints between tiles, cutting tile cavities, gypsum boards or reinforced plastics).*
  **23415105** **€ 73,301**	AVZ70RT4	TC/HM	 	 	 Mattoni e cemento, piastrelle, plastica epossidica (es. rimozione di colla per piastrelle e malta per fughe, raspatura e levigatura di superfici dure). *Bricks and cement, tiles, epoxy plastic (eg tile glue and grout removal, buffing and sanding of hard surfaces).*
  **23415115** **€ 42,393**	AVZ78RT2	TC/HM	 		  Malta, residui di calcestruzzo, legno, materiali abrasivi (es. rimozione di malta o colla per piastrelle, rimozione di residui di colla per moquette). *Mortar, residues of concrete, wood, abrasive materials (eg removal of mortar or tile adhesive, removal of residues of glue for carpet).*

Confezione
Packaging



1 pc.

Kit per piastrelle
Tile set



Art. 23430100
€ 92,660

Composizione
Description
4 pcs

Art. 23415100
Art. 23400105
Art. 23415115
Art. 23410105

Kit per pavimenti e installazioni
Flooring set



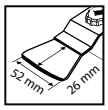
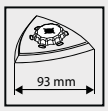
Art. 23430101
€ 70,977

Composizione
Description
4 pcs

Art. 23410100
Art. 23400105
Art. 23405115
Art. 23405100

23400 ATTACCO STARLOCK®
Starlock® tools

Multimateriale
Multitasking

cod.	rif. Bosch	materiale *material*	dimensioni *dimensions*	caratteristiche features	impieghi *applications*
  **23400100** **€ 35,429**	ASZ32SC	HCS Lama *Multi knife*	 		 Moquette, tappeti, carta catramata, prato sintetico, cartone, tutti i materiali teneri e abrasivi flessibili. *Carpet, tar paper, synthetic grass, cardboard, all soft materials and flexible abrasives.*
  **23400105** **€ 16,483**	ATZ52SC	HCS Raschietto *Rigid scraper*	 		  Moquette, malta, calcestruzzo, colla per piastrelle. *Carpet, mortar, concrete, tile adhesive*
  **23400110** **€ 19,475**	AVZ93G	Platorello per carte abrasive *Sanding Plate for delta sanding paper*	 		 Levigatura di superfici piane sui bordi, negli angoli o in settori difficilmente accessibili (es. levigare legno, pittura, vernice, pietra, disossidare metalli, asportare vernici). *Sanding flat surfaces on edges, corners or in sectors that are difficult to access (eg sanding wood, painting, varnish, stone, deoxidising metals, removing varnishes).*

Confezione
Packaging



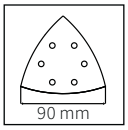
1 pc.

Carte abrasive per legno/vernici
Abrasive paper for wood/paint



Art. 23529026
€ conf./*pack*
7,409

20 pcs

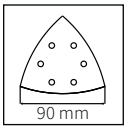


Carte abrasive per legno/metallo
Abrasive paper for wood/metal



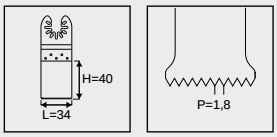
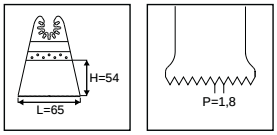
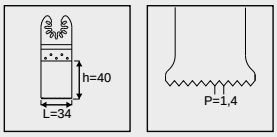
Art. 23529027
€ conf./*pack*
7,844

20 pcs



23505 ATTACCO UNVERSALE QUICK CHANGE
Universal QUICK CHANGE

Legno
Wood

cod.	rif. Bosch	materiale *material*	dimensioni *dimensions*	impieghi *applications*
 **23505105** **€ 7,941**	≈ AIZ32BSPC	HCS	 14 tpi	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Softwood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).*
 **23505110** **€ 8,684**	≈ AII65BSPC	HCS	 14 tpi	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Softwood, multilayer, plastic (eg center-cut in massive wood for mounting an aeration grid).*
 **23505115** **€ 6,287**	≈ AIZ32EPC	HCS	 19 tpi	 Legno dolce, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Softwood, plastic (eg cut from the center in massive wood to fit an aeration grid).*

Confezione
Packaging



1 pc.

GUIDA ALL'USO DEGLI UTENSILI PER MACCHINE AD OSCILLAZIONE
Guide to the use of tools for oscillating machines

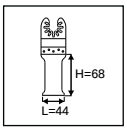
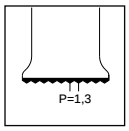
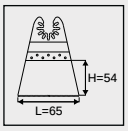
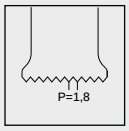
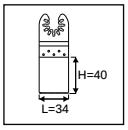
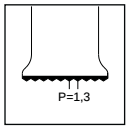
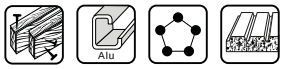
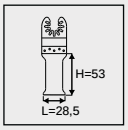
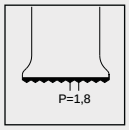


Si raccomanda l'uso delle lame per utensili multifunzione con una lieve pressione. La dentatura è appositamente studiata per fornire un'operazione di taglio senza sforzo e con ottima finitura. Nel caso si esercitasse una pressione eccessiva il prodotto potrebbe perdere prematuramente il filo tagliente oppure potrebbe surriscaldarsi eccessivamente, perdendo di conseguenza capacità tagliente.

The use of oscillating tools with light pressure is recommended. The tooth set is specially designed to provide a cutting operation effortlessly and with excellent finish. If excessive pressure is exerted, the product may prematurely lose the cutting edge or it may overheat excessively, thus losing its cutting capacity.

23510 ATTACCO UNVERSALE QUICK CHANGE
Universal QUICK CHANGE

Legno, metallo, plastiche
Wood, metal, plastics

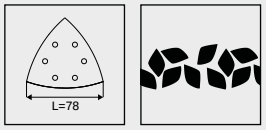
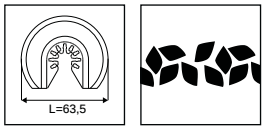
cod.	rif. Bosch	materiale *material*	dimensioni *dimensions*	impieghi *applications*
 **23510100** **€ 17,660**	≈ ACZ85EB	BIM		 Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). ***Parquet, multilayer s <20 mm, epoxy plastic. Truncated cuts and cuts from the center, also for cuts near the edges, in the corners*** *and in sectors that are difficult to access (eg cuts of assembled* ***skirting boards or door frames).***
 **23510105** **€ 11,672**	≈ AIZ20AB	BIM	  19 tpi	 Legno con chiodi, legno duro, cartongesso, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). ***Wood with nails, hardwood, plasterboard, epoxy plastics, insulating sandwiches (eg cuts of door frames, cuts in coated panels, pipe cuts*** *in non-ferrous material and small profiles).*
 **23510115** **€ 8,231**	≈ AII65APB	HCS	  14 tpi	 Legno dolce, plastica. *Soft wood, plastics.*
 **23510120** **€ 10,629**	≈ AIZ32AB	BIM	  19 tpi	 Legno con chiodi, alluminio, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). ***Wood with nails, aluminum, epoxy plastic, insulating sandwiches*** ***(eg cuts of door frames, cuts in coated panels, pipe cuts in*** *non-ferrous material and small profiles).*
 **23510125** **€ 10,587**	≈ AIZ32BSPB	BIM	  14 tpi	 ***Legno duro, multistrato, plastica.*** ***Hardwood, multilayer, plastic.***

Confezione
Packaging


1 pc.

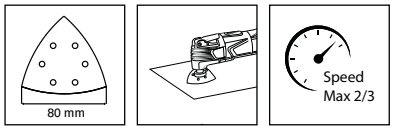
23515 ATTACCO UNVERSALE QUICK CHANGE
Universal QUICK CHANGE

Materiali Abrasivi
Abrasives

cod.	rif. Bosch	materiale *material*	dimensioni *dimensions*	impieghi *applications*
 **23515100** **€ 12,871**	≈ ACZ85RT3	TC/HM		 Mattoni e cemento, piastrelle, plastica epossidica (es. rimuovere fughe tra piastrelle, tagliare cavità in piastrelle, pannelli di gesso o plastiche rinforzate). *Bricks and cement, tiles, epoxy plastics (eg to remove joints between tiles, cut tile cavities, gypsum boards or reinforced plastics).*
 **23515105** **€ 11,672**	≈ AVZ70RT4	TC/HM		 Mattoni e cemento, piastrelle, plastica epossidica (es. rimozione di colla per piastrelle e malta per fughe, raspatura e levigatura di superfici dure). *Bricks and cement, tiles, epoxy plastics (eg tile glue and grout removal, buffing and sanding of hard surfaces).*

23500 ATTACCO UNVERSALE QUICK CHANGE
Universal QUICK CHANGE

Multimateriale
Multitasking

cod.	rif. Bosch	materiale *material*	dimensioni *dimensions*	impieghi *applications*
 **23500105** **€ 5,873**	≈ ATZ52SC	HCS Raschietto *Rigid scraper*		 Moquette, malta, calcestruzzo, colla per piastrelle. *Carpet, mortar, concrete, tile adhesive.*
 **23500110** **€ 6,742**	≈ AVZ93G	Platorello per carte abrasive *Sanding Plate for delta sanding paper*		Levigatura di superfici piane sui bordi, negli angoli o in settori difficilmente accessibili (es. levigare legno, pittura, vernice, pietra, disossidare metalli, asportare vernici). *Smoothing flat surfaces on edges, in corners or in sectors that are difficult to access (eg sanding wood, painting, varnish, stone, deoxidising metals, removing painting).*

23529 ATTACCO UNVERSALE QUICK CHANGE
Universal QUICK CHANGE



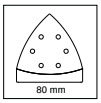
Art. 23529010
€ 0,753
Adattatore per macchine Dremel®
Adapter to fit Dremel® machine



Art. 23529015
€ 0,753
Adattatore per macchine Bosch® (non Starlock®)
Adapter to fit Bosch® (non Starlock®) machine

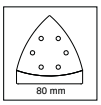


Art. 23529020
€ 6,964 20pcs
Carte abrasive per legno/vernici
Abrasive paper for wood/paint





Art. 23529025
€ 7,586 20pcs
Carte abrasive per legno/metallo
Abrasive paper for wood/metal





Art. 23530100
€ 38,927

Composizione
Description
4 pcs

Art. 23505115
Art. 23500105
Art. 23510100
Art. 23500110



Art. 23530101
€ 53,593

Composizione
Description
7 pcs

Art. 23510115
Art. 23505115
Art. 23510120
Art. 23500105 Inox
Art. 23515105
Art. 23510100 HCS
Art. 23500110





UTENSILI PER EDILIZIA

CONSTRUCTION TOOLS

VISIONE D'INSIEME: PUNTE PER MURO CON CODOLO CILINDRICO
Overview: Masonry drills with Straight shank

APPLICAZIONE *APPLICATION*	DESCRIZIONE *DESCRIPTION*	IMMAGINE *IMAGE*	ATTACCO *SHANK*	N° TAGLIENTI *N° OF CUTTING EDGES*	N° ELICHE *HELIX*	TIPOLOGIA DI FORATURA *TYPE OF DRILLING*
SPECIALI GRÈS PORCELLANATO *SPECIAL FOR PORCELAIN*	GRESMASTER			MULTI	2	
	GRES+			2	2	
SPECIALI MATERIALI EDILI DURISSIMI *SPECIAL FOR HARD CONSTRUCTION MATERIALES*	Super Granit			2	2	
	Extreme hard cut			2	2	
MATERIALI EDILI *CONSTRUCTION MATERIALS*	EKMAX4			4	4	
	SDD UNIVERSALE			2	2	
	SUPERIOR			2	2	
	SUPERIOR		 HEX 1/4"	2	2	
	STANDARD PLUS *STANDARD PLUS*			2	2	
	STANDARD *STANDARD*			2	2	
UNIVERSALI, FORATUTTO *UNIVERSAL, ALL PURPOSE*	MULTIK			2	2	 Metallo, Ceramica *metals, ceramics*
			 HEX 1/4"	2	2	 Metallo, Ceramica *metals, ceramics*
	Foratutto®			2	2	 Metallo, Ceramica *metals, ceramics*
			 HEX 1/4"	2	2	 Metallo, Ceramica *metals, ceramics*
VETRO E CERAMICA *GLASS AND CERAMIC*	PER VETRO E CERAMICA *PER VETRO E CERAMICA*			2	0	

MATTONI *BRICK*	CALCESTRUZZO *CONCRETE*	CALCESTRUZZO ARMATO *REINFORCED CONCRETE*	GRANITO *GRANITE*	PIETRE NATURALI ED ARTIFICIALI *NATURAL AND ARTIFICIAL STONES*	CERAMICA *CERAMICS*	GRÈS PORCELLANATO *PORCELAIN STONEWARE*	MARMO *MARBLE*	VETRO *GLASS*	METALLO *METAL*	LEGNO *WOOD*	PLASTICA *PLASTIC*		SERIE CORTA *SHORT SERIE* DIN 8039	SERIE LUNGA *LONG SERIE* 150 ÷ 250 mm	SERIE LUNGA *LONG SERIE* 300 ÷ 400 mm	SERIE LUNGA *LONG SERIE* 600 mm
			●	●	●	●	●					COD.	03043			
													p.501			
◐			●	●	●	●	●					COD.	03042			
													p.503			
●	●	◐	●	●	●		●					COD.	03110	03112		
													p.504	p.504		
●			●	●	●	◐	●					COD.	03100			
													p.505			
●	●	◐	◐	●			●					COD.	03072			
													p.506			
●	●		●	●	◐		●		◐			COD.	03069	03069	03069	
													p.507	p.507	p.507	
●	●		◐	●			●					COD.	03060	03063	03065	03067
													p.508	p.508	p.508	p.508
●	●		◐	●			●					COD.	03059			
													p.509			
●	◐			◐			◐					COD.	03052	03053	03054	03051
													p.510	p.510	p.510	p.510
●				◐								COD.	03001	03005	03009 03011	03015
													p.512	p.512	p.512 p.513	p.513
◐	◐		●	●	●	◐	●		●	●	●	COD.	03076			
													p.514			
◐	◐		●	●	●	◐	●		●	●	●	COD.	03077			
													p.515			
◐	◐		●	●	◐		●		◐	◐	◐	COD.	03080	03082		
													p.516	p.516		
◐	◐		●	●	◐		●		◐	◐	◐	COD.	03089			
													p.517			
					●	◐		●				COD.	03140			
													p.517			

GRESMASTER



01 La praticità di una punta, la forza del metallo duro

The practicality of a drill bit, the power of carbide

La punta elicoidale GRESMASTER è caratterizzata dalla testa in MD integrale elettrosaldata che, grazie all'affilatura asimmetrica e multi-faccia, garantisce un'elevata efficacia e durata dell'utensile.

The GRESMASTER drill bit has an asimmetrical sharpening full MD head who garantees high efficiency and durability of the drill bit.

02 Fori perfetti *Perfect holes*

Grazie al differente angolo di spoglia di ciascun tagliente, GRESMASTER assicura una più eterogenea lavorazione della superficie rifinendo il foro che risulta perfettamente tondo e liscio.

Due to the different angle of each cutting edge, GRESMASTER provides a more heterogeneous surface processing. The result is a perfectly round and smooth hole.

03 Foratura a secco *Dry drilling*

GRESMASTER - a differenza di quanto avviene solitamente nel taglio di materiali duri - ha una maggiore efficacia quando utilizzata a secco. Utilizzando il corretto numero di giri, anche in assenza di refrigerazione, è l'ideale per professionisti che necessitano di utensili pratici e duraturi.

GRESMASTER - unlike what is usually done when cutting such hard materials - is more effective when used dry. Using the correct RPM, even in the absence of refrigeration, it is the perfect choice for professionals who need practical and durable tools.

04 Facile centraggio *Easy centering*

La foratura risulta semplice grazie al tagliente in MD che incide subito anche le superfici molto dure, evitando lo scivolamento laterale della punta.

Drilling is easy thanks to the MD cutting edge that immediately cuts even the hardest surface, avoiding to slip from on the surface..

05 Ideale per trapani portatili *Ideal for portable drills*

GRESMASTER è perfetta per l'utilizzo con trapani avvitatori in qualsiasi condizione e non necessita di particolari accorgimenti. Da utilizzare a sola rotazione (anche a velocità di rotazione ridotte) avendo cura di disattivare la percussione dell'elettroutensile.

GRESMASTER is perfect with cordless drills in any condition and does not require any special precautions. It should be used with rotation only (low rotation speeds) being sure to turn off the percussion function of the power tool.

03043

DIN 8039 ISO 5468
Milled

Speciale per grès porcellanato
Special for porcelain

MADE IN JAPAN

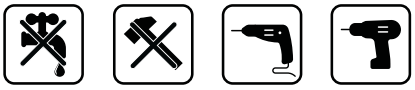
Affilatura Speciale
Special sharpening



Confezione
Packaging



Ø	l	L	cod.	€ cad/each
4	85	50	030430400	**18,100**
5	85	50	030430500	**19,500**
6	100	65	030430600	**20,500**
8	125	75	030430800	**25,700**
10	150	90	030431000	**30,400**





Art. 030440001
€ 76,000

3 pcs
Ø 6 - 8 - 10 mm



300x420x415

Art. 03044505
€ 1.413,000

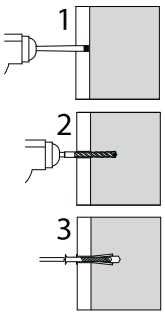
54 pcs
Ø 4÷10 mm

Composizione
Description

Ø	pcs.
4	5
5	5
6	25
8	10
10	5
Set 6-8-10	4

Applicazioni
Applications

- Grès porcellanato — *Porcelain stoneware*
- Grès smaltato — *Glazed stoneware*
- Grès — *Stoneware*
- Pietra - Granito — *Natural stones granit*
- Marmo — *Marble*
- Piastrella standard — *Standard tile*



Consigli di utilizzo

È l'utensile più facile e intuitivo da utilizzare, si utilizza a secco, è autocentrante.

L'unica fondamentale accortezza è utilizzare la punta a bassa velocità, indicativamente a 500 giri/min. (utilizzare la regolazione elettronica della velocità per arrivare a circa metà della velocità in prima marcia di un comune avvitatore, velocità poco più che al minimo per trapani a filo).

La punta va utilizzata esclusivamente a sola rotazione, senza l'utilizzo di percussione e avendo cura di raffreddare o lasciar raffreddare l'utensile tra un foro e l'altro.

Per prolungarne la durata, la punta va utilizzata per forare la sola piastrella (1): quando si entra in contatto con il muro, nel caso si necessiti ad esempio di installare dei tasselli di fissaggio (3), è bene proseguire il foro con una normale punta per calcestruzzo a rotopercussione (2).

Recommendations for use

Is the easiest and most intuitive tool to use, it is used dry, and it is self-centering.

The only fundamental caution is to use the drill at low speed, approximately 500 rpm. (use the electronic speed control to get to about half the speed in first gear of an ordinary screwdriver, speed little more than idle for corded drills).

The drill should be used with rotation only, without the use of percussion and taking care to cool or allow the tool to cool between holes.

To prolong its life, the drill should be used to drill the tile only (1): when it comes into contact with the wall, in case you need to install anchor bolts, for example (3), it is a good idea to continue the hole with a regular rotopercussion concrete drill (2).

Diametro punta *Drill bit diameter*	4÷6	8÷10
Velocità giri/min. *RPM speed*	500	400

GRES+



01 Placchetta in metallo duro con speciale affilatura

Carbide plate with special sharpening

Grazie alla speciale affilatura al diamante GRES+ è in grado di incidere in modo efficace anche i materiali più duri. Da utilizzare solo a rotazione, è ideale su grès porcellanato, ceramica, piastrelle e granito.

GRES+ is able to etch even the hardest material due to its special diamond sharpening. It should be used in rotation only, it is excellent on porcelain stoneware, ceramics, tiles and granite.

02 Facile centraggio

Easy centering

GRES+ garantisce un foro preciso e senza sbavature, incidendo da subito la superficie ed evitando lo scivolamento laterale della punta.

GRES+ guarantees a precise and burr-free hole, it immediately etches the surface avoiding to slip on the surface.

03 Ottima durata

Excellent duration

GRES+ è in grado di forare a secco, ma le migliori performance si ottengono ad umido, assicurando così un adeguato raffreddamento dell'utensile in fase di foratura.

GRES+ can do dry drilling, but the best performance is achieved when wet. This provides an adequate cooling of the tool while drilling.



Placchetta in metallo duro con speciale affilatura al diamante.

Carbide plate with special diamond sharpening.

03042

DIN 8039 ISO 5468
Milled

Speciale per grès porcellanato
Special for porcelain

130°
HVA ≃ 1650



Confezione
Packaging



Ø	l	L	cod.	€ cad/each
4	40	80	030420400	**4,800**
5	45	90	030420500	**5,100**
6	55	100	030420600	**5,450**
8	65	120	030420800	**6,700**
10	65	120	030421000	**9,400**





Art. 030410001
€ 20,000

3 pcs
Ø 6 - 8 - 10 mm



Art. 03041505
€ 699,000

105 pcs
Ø 4÷10 mm

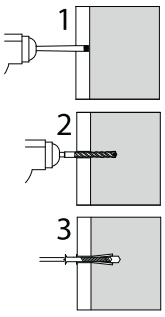
300x420x415

Composizione
Description

Ø	pcs.
4	10
5	10
6	50
8	20
10	10
Set 6-8-10	5

Applicazioni
Applications

- Grès porcellanato — *Porcelain stoneware*
- Grès smaltato — *Glazed stoneware*
- Grès — *Stoneware*
- Pietra - Granito — *Natural stones granit*
- Marmo — *Marble*
- Piastrella standard — *Standard tile*



Consigli di utilizzo

La punta va utilizzata esclusivamente a sola rotazione, senza l'utilizzo di percussione.

Si utilizza come una normale punta per muro, è autocentrante e si utilizza sia a secco che a umido. Da utilizzare a bassa velocità, indicativamente a 500 giri/min.

Per prolungarne la durata, la punta va utilizzata per forare la sola piastrella (1): quando si entra in contatto con il muro, nel caso si necessiti ad esempio di installare dei tasselli di fissaggio (3), è bene proseguire il foro con una normale punta per calcestruzzo a rotopercussione (2).

Recommendations for use

The drill bit is to be used by rotation only, without the use of percussion.

It is used as a regular wall bit, is self-centering and can be used both dry and wet. It should be used at low speed, approximately 500 rpm.

To prolong its life, the bit should be used to drill the tile only (1): when it comes into contact with the wall, in case you need, for example, to install anchor plugs (3), it is a good idea to continue the hole with a normal rotopercussion concrete bit (2).

Diametro punta *Drill bit diameter*	4÷6	8÷10
Velocità giri/min. *RPM speed*	500	400

PUNTE A ROTOPERCUSSIONE “SUPER GRANIT”
PER FORARE LE PIETRE PIÙ DURE E I MATERIALI EDILI DURISSIMI
Rotary percussion drill bits “Super Granit” for extreme hard stones and building materials

03110

DIN 8039 ISO 5468
Milled

Speciale materiali edili durissimi
Special for hard costruction materials

130°
HVA ≈ 1650



Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	30	60	1	031100300	**7,339**
4	5/32	3,8	40	75	1	031100400	**7,339**
5	3/16	4,5	50	75	1	031100500	**7,521**
6	15/64	5,5	60	100	1	031100600	**7,792**
7	9/32	6,5	60	100	1	031100700	**9,188**
8	5/16	7,5	80	120	1	031100800	**9,369**
9	23/64	8	80	120	1	031100900	**11,025**
10	25/64	9	80	120	1	031101000	**12,478**
11	7/16	10	90	150	1	031101100	**14,973**
12	15/32	10	90	150	1	031101200	**16,686**
13	1/2	10	90	150	1	031101300	**23,185**
14	9/16	10	90	150	1	031101400	**26,622**
15	19/32	10	100	160	1	031101500	**32,033**
16	5/8	12	100	160	1	031101600	**34,358**
18	23/32	12	100	160	1	031101800	**40,485**
20	25/32	12	100	160	1	031102000	**53,619**

Applicazioni
Applications


Granito
Granite


Calcestruzzo
Concrete


Pietre
Stones

03112

L = 150 - 200 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
5	3/16	4,5	90	150	1	031121500500	**11,797**
5,5	7/32	4,5	90	150	1	031121500550	**13,019**
6,5	1/4	5,5	90	150	1	031121500650	**15,799**
8	5/16	7,5	90	150	1	031121500800	**15,799**
10	3/8	9	200	250	1	031122501000	**19,317**
14	9/16	12	200	250	1	031122501400	**29,609**


Art. 03111 Self
Disponibile su richiesta
On demand


Art. 03116202
€ 45,126

4 pcs
Ø 5 - 6 - 8 - 10 mm



Taglio del granito **a rotopercussione** con grandi rendimenti, taglio delle pietre naturali e artificiali, calcestruzzo e materiali da edilizia vari, fino al 7° scala MOHS.

Rotary percussion *cuts in granit, natural stone, concrete, masonry, up to 7° MOHS.*

Placchetta affilata con diamante. Corpo rettificato con scarico ad “U”, in acciaio legato HRC 40÷50. Saldobrasatura a 1100° C.

Large milled flute type “U” for an efficient dust removal. Diamond sharpened. Body in alloy steel with HRC 40÷50. Brazing temperature at 1100° C

PUNTE “EXTREME HARD CUT” ALTAMENTE PROFESSIONALI PER FORARE A SOLA ROTAZIONE TUTTI I MATERIALI EDILI DURISSIMI

Professional masonry drills “Extreme Hard Cut” for rotary cutting of hard building materials

03100

DIN 8039 ISO 5468

Milled

Speciale materiali edili durissimi

Special for hard costruction materials



HVA ≃ 1650



Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	30	70	1	031000300	**4,250**
4	5/32	3,8	40	75	1	031000400	**4,616**
5	3/16	4,5	50	85	1	031000500	**4,616**
6	15/64	5,5	60	100	1	031000600	**4,706**
8	5/16	7,5	80	120	1	031000800	**5,803**
10	3/8	9	80	120	1	031001000	**8,150**
12	15/32	10	90	150	1	031001200	**12,622**
14	9/16	10	200	250	1	031001400	**18,619**



Taglio preciso e senza sbavature **a sola rotazione** nel marmo, pietre, granito, ceramica, tutti i materiali da edilizia durissimi (sino a 7 gradi scala MOHS).

*Precise **rotary cut** in hard building materials (marble, natural stones, ceramic, granit) up to 7° MOHS.*

Corpo fresato con scanalatura ad “U”. Saldobrasatura a 1120° C. Placchetta in metallo duro ISO Euronorm resistente a forti abrasioni, affilata con diamante ed autocentrante.

Large milled flute type “U”, with self-centering positive clearance. Brazing temperature over 1120° C. Special carbide grain tip.

Applicazioni
Applications



Pietre naturali e artificiali
Natural and artificial stones



Ceramica
Ceramics



Piastrelle, mattoni durissimi
Tiles, hard burnt brick



Pietra - Granito
Natural stones granit



Art. 03101 Self
Disponibile su richiesta
On demand



Art. 03105202
€ 26,088

4 pcs
Ø 5 - 6 - 8 - 10 mm

390x150x225

PUNTE ROTOBATTENTI “MAX 4” A 4 TAGLIENTI E 4 ELICHE PER FORARE AD ALTO RENDIMENTO TUTTI I MATERIALI EDILI

Rotary percussion drill bits “max 4” with 4 cutting edges and 4 flutes for cutting concrete and building materials

EKMAX4®

03072

DIN 8039 ISO 5468
Milled

4 taglienti - Alto rendimento - Per calcestruzzo
4 cutting edges - High performance - For concrete



HVA = 1650



4 taglienti
4 cutting edges

4 spirali
4 spirals



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
4	3,8	40	75	1	030720400	**3,005**
5	4,8	40	85	1	030720500	**3,005**
6	5,4	57	100	1	030720600	**3,174**
7	6,3	55	100	1	030720700	**3,484**
8	7	70	120	1	030720800	**3,581**
9	8	70	120	1	030720900	**3,927**
10	8,5	70	120	1	030721000	**4,434**
11	10	90	150	1	030721100	**5,232**
12	10	90	150	1	030721200	**5,516**
13	10	90	150	1	030721300	**6,969**
14	10	90	150	1	030721400	**8,229**
15	10	90	150	1	030721500	**10,453**
16	10	90	150	1	030721600	**11,614**



4 taglienti
Placchetta integrale a 4 taglienti in metallo duro resistente alla forte percussione, brasatura con lega saldante a 1100°C.

Cutting edges
One-piece 4 cutting edges carbide tip resisting to percussion. Brazing temperature at 1000°C.



4 eliche
Corpo fresato con scanalatura a “L” ad alta evacuazione.

4-flutes
Large milled flute type “L” for a faster dust remove.



+30%PRESTAZIONI
FORO PERFETTAMENTE CIRCOLARE
rispetto a una comune punta a 2 taglienti

+30% PERFORMANCES
Circular hole compared to a 2 cutting edges drill

Applicazioni
Applications



Muro
Masonry



Calcestruzzo
Concrete



Pietre
Stones

La placchetta in metallo duro monoblocco a 4 taglienti garantisce una grande capacità di taglio e un’ottima precisione di foratura. L’asportazione dei detriti è assicurata dalla combinazione delle 4 eliche e della geometria a “L” dello scarico. Grande rendimento di taglio in tutti i materiali edili, cemento, granito, pietre in genere, mattoni.

One-piece 4 cutting edges carbide tip assures great drilling performances and perfect circular holes. Faster dust removal due to the 4 “L” type flutes. Drilling in every building material, concrete, granite, stones.



Art. 03073201
€ 12,457
4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03073202
€ 18,180
6 pcs
Ø 4 - 5 - 6
8 - 9 - 10 mm



Art. 03073203
€ 21,547
7 pcs
Ø 4 - 5 - 6 - 8
9 - 10 - 12 mm



370x380x570

Art. 03073504
€ 551,393
134 pcs
Ø 4÷16 mm

Composizione
Description

Ø	pcs.
4	7
5	14
6	28
7	7
8	28
9	10
10	15
12	10
13	5
14	5
16	5

PUNTA UNIVERSALE SDD
PER IL TAGLIO DI TUTTI I MATERIALI
Univeral SDD drill

03069 DIN 8039 ISO 5468

SDD - UNIVERSALE
SDD- Universal



HVA ≃ 1650



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
3	2,8	20	60	10	030690600300	**3,209**
4	3,8	35	75	10	030690750400	**3,209**
5	4,5	45	85	10	030690850500	**3,264**
6	5,5	60	100	10	030691000600	**3,317**
6	5,5	210	250	1	030692500600	**9,898**
6	5,5	360	400	1	030694000600	**14,927**
7	6,4	60	100	10	030691000700	**3,477**
8	7,2	80	120	10	030691200800	**3,692**
8	7,2	210	250	1	030692500800	**10,647**
8	7,2	360	400	1	030694000800	**15,247**
9	8,3	80	120	10	030691200900	**4,173**
10	9,2	80	120	10	030691201000	**4,956**
10	9,2	210	250	1	030692501000	**11,503**
10	9,2	360	400	1	030694001000	**15,996**
10	9,2	560	600	1	030696001000	**17,067**
11	9,9	110	150	6	030691501100	**7,715**
12	10	110	150	6	030691501200	**8,507**
12	10	210	250	1	030692501200	**15,996**
12	10	360	400	1	030694001200	**19,206**
12	10	560	600	1	030696001200	**25,734**
13	12	110	150	6	030691501300	**9,736**
14	12,7	110	150	6	030691501400	**10,647**
14	12,7	210	250	1	030692501400	**17,602**
14	12,7	360	400	1	030694001400	**21,347**
15	13	110	150	6	030691501500	**11,342**
16	13	110	150	6	030691501600	**12,573**
16	13	210	250	1	030692501600	**20,277**
16	13	360	400	1	030694001600	**24,556**
16	13	560	600	1	030696001600	**26,696**
18	13	120	160	1	030691601800	**14,927**
20	13	120	160	1	030691602000	**18,672**

Applicazioni
Applications


Pietre naturali e artificiali
Natural and artificial stones


Ceramica
Ceramics


Metalli
Metals


Piastrelle, mattoni durissimi
Tiles, hard burnt brick


Pietra - Granito
Natural stones granit






Taglio preciso **a rotazione** in metalli, ceramica e in tutti i materiali da edilizia fragili e **a rotopercussione** in marmo, granito, pietre.

*Precise cut, **rotation only**, into metals, ceramic and fragile building materials. **Rotary percussion** cut into marble, granit, stones.*



Art. 03068202
€ 20,000

4 pcs
Ø 5x85 - 6x100
8x120 - 10x120 mm

Art. 03068204
€ 29,917

7 pcs
Ø 3x60 - 4x75
5x85 - 6x100
8x120 - 9x120
10x120 mm

Art. 03068205
€ 42,000

8 pcs
Ø 3x60 - 4x75
5x85 6x100
8x120 - 9x120
10x120 - 12X150 mm



Art. 03068505
€ 427,664

Composizione
Description

Ø	pcs.
3x60	5
4x75	5
5x85	10
6x100	20
8x120	20
10x120	14
12x150	14

PUNTE "SUPERIOR" A ROTOPERCUSSIONE PER EDILIZIA AD ELEVATO RENDIMENTO

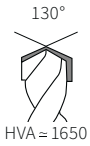
High performance construction drill bits "Superior"

03060

DIN 8039 ISO 5468

Per muratura e calcestruzzo

For masonry and concrete



HVA ≈ 1650



Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	40	70	10	030600300	**2,533**
4	5/32	3,8	40	75	10	030600400	**2,533**
5	3/16	4,5	40	85	10	030600500	**2,564**
5,5	7/32	4,8	57	100	10	030600550	**2,642**
6	15/64	5,5	57	100	10	030600600	**2,642**
6,5	1/4	6	57	100	10	030600650	**2,928**
7	9/32	6,5	55	100	10	030600700	**2,822**
8x107	5/16	7,5	55	107	10	030600800C	**3,037**
8	5/16	7,5	70	120	10	030600800	**3,037**
9	11/32	8	70	120	6	030600900	**3,404**
10	3/8	9	70	120	6	030601000	**3,949**
11	7/16	10	90	150	6	030601100	**5,837**
12x120	15/32	10	90	120	6	030601200C	**6,355**
12	15/32	10	90	150	6	030601200	**6,355**
13	1/2	10	90	150	6	030601300	**7,973**
14	9/16	10	90	150	6	030601400	**8,536**
15	19/32	10	90	150	6	030601500	**10,094**
16	5/8	10	90	150	6	030601600	**10,094**
18	23/32	13	100	160	1	030601800	**12,031**
20	25/32	13	100	160	1	030602000	**14,742**

Applicazioni
Applications


Muro
Masonry


Calcestruzzo
Concrete


Pietra
Natural Stones


Art. 03061 Self
Disponibile su richiesta
On demand

03063

L = 150 - 200 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
5	3/16	4,7	90	150	1	030630500	**3,972**
6	15/64	5,5	90	150	1	030630600	**4,581**
8	5/16	7,5	150	200	1	030630800	**5,652**
10	3/8	9	150	200	1	030631000	**7,040**
12	15/32	10	150	200	1	030631200	**8,849**
14	9/16	10	150	200	1	030631400	**10,756**
16	5/8	10	150	200	1	030631600	**12,938**
18	23/32	10	150	200	1	030631800	**15,871**
20	25/32	13	150	200	1	030632000	**18,547**

03065

L = 400 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
8	5/16	7,5	320	400	1	030650800	**8,968**
10	3/8	9,5	320	400	1	030651000	**10,916**
12	15/32	10	320	400	1	030651200	**13,335**
14	9/16	10	320	400	1	030651400	**15,505**
16	5/8	10	320	400	1	030651600	**19,729**
18	23/32	10	320	400	1	030651800	**25,067**
20	25/32	13	320	400	1	030652000	**31,990**
22	7/8	13	320	400	1	030652200	**39,356**
24	15/16	13	320	400	1	030652400	**41,561**

03067

L = 600 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
8	5/16	7,5	500	600	1	030670800	**10,874**
10	3/8	9,5	500	600	1	030671000	**13,666**
12	15/32	10	500	600	1	030671200	**16,341**
14	9/16	10	500	600	1	030671400	**21,685**
16	5/8	10	500	600	1	030671600	**23,438**
18	23/32	10	500	600	1	030671800	**32,224**
20	25/32	13	500	600	1	030672000	**38,222**
22	7/8	13	500	600	1	030672200	**44,822**
24	15/16	13	500	600	1	030672400	**52,087**

Corpo fresato con scanalatura ad "L" ad alta evacuazione. Placchetta M.D. resistente alla forte percussione, brasatura con lega saldante a 1100° C.

Brazing temperature at 1100° C. Large milled flute type "L" for a faster dust removal.

Per forare a forte percussione il muro, il cemento, il calcestruzzo, marmo, pietre. Uso intensivo ed alto rendimento.

For use, with rotary percussion, in masonry, concrete, natural stones. High performances in intensive uses.



ASSORTIMENTI PUNTE "SUPERIOR" A ROTOPERCUSSIONE PER EDILIZIA AD ELEVATO RENDIMENTO

High performance construction drill bits "Superior" sets



Art. 03070201
€ 11,408

4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03070202
€ 17,449

7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03070203
€ 21,255

8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm



370x380x570

Art. 03070504
€ 645,837

141 pcs
Ø 3÷16 mm

Composizione
Description

Ø	pcs.
3	7
4	7
5	14
6	28
7	7
8	28
9	10
10	15
12	10
13	5
14	5
15	5

Art. 03070503
€ 789,995

142 pcs
Ø 3÷18 mm

Composizione
Description

Ø	pcs.
3	9
4	9
5	9
6	27
7	9
8	18
9	6
10	12
12	6
13	6
14	6
16	6
8x400	6
10x400	3
12x400	3
16x400	2
18x400	2

ASSORTIMENTI *SETS*

PUNTE "SUPERIOR" A ROTOPERCUSSIONE PER EDILIZIA CON ATTACCO HEX 1/4"

Professional quality masonry drills "Superior" 1/4" q.c. shank

03059 ATTACCO 1/4" HEX FORM E

Per muratura e calcestruzzo
For masonry and concrete

1/4 HEX FORM E





Confezione
Packaging



Ø mm	d ⬡	l	L	pcs.	cod.	€ cad/each
3	1/4	33	75	10	030590300	**3,334**
4	1/4	35	83	10	030590400	**3,484**
5	1/4	46	93	10	030590500	**3,839**
6	1/4	56	97	10	030590600	**4,193**
7	1/4	48	97	10	030590700	**4,344**
8	1/4	70	120	10	030590800	**4,619**
9	1/4	70	120	10	030590900	**4,965**
10	1/4	70	120	10	030591000	**5,143**



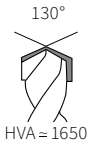
Art. 03057700
€ 22,341

5 pcs
Ø 4 - 5 - 6 - 8 - 10 mm

PUNTE CILINDRICHE PER MURO STANDARD PLUS
Quality rotary percussion masonry drills

03052 DIN 8039 ISO 5468

Per muratura
For masonry





Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	40	70	10	030520300	**1,800**
4	5/32	3,8	40	75	10	030520400	**1,800**
5	3/16	4,5	40	85	10	030520500	**1,838**
5,5	7/32	4,8	55	100	10	030520550	**1,970**
6	15/64	5,5	55	100	10	030520600	**1,970**
6,5	1/4	6	70	120	10	030520650	**2,176**
7	9/32	6,5	70	120	10	030520700	**2,268**
8x107	5/16	7,5	70	107	10	030520800C	**2,764**
8	5/16	7,5	70	120	10	030520800	**2,764**
9	11/32	8	90	120	10	030520900	**2,986**
10	3/8	9	90	120	10	030521000	**3,534**
11	7/16	10	90	150	5	030521100	**4,368**
12x120	15/32	10	90	120	5	030521200C	**4,368**
12	15/32	10	90	150	5	030521200	**4,368**
13	1/2	10	90	150	5	030521300	**4,889**
14	9/16	10	90	150	5	030521400	**5,411**
15	19/32	10	90	150	5	030521500	**6,468**
16	5/8	10	90	150	5	030521600	**7,184**
18	23/32	10	100	160	5	030521800	**7,432**
20	25/32	13	100	160	5	030522000	**9,177**

Applicazioni
Applications


Muro
Masonry


Calcestruzzo
Concrete


Pietra
Natural Stones

Corpo con placchetta di alta qualità.

Flute with high resistant carbide tips.

03053 L = 150 - 200 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
5	3/16	4,7	90	150	5	030530500	**3,862**
5,5	7/32	4,8	90	150	5	030530550	**3,982**
6	15/64	5,5	90	200	5	030530600	**4,824**
8	5/16	7,5	150	200	5	030530800	**5,516**
10	3/8	9	150	200	5	030531000	**6,390**
12	15/32	10	150	200	5	030531200	**7,366**
14	9/16	10	150	200	5	030531400	**9,100**
16	5/8	10	150	200	5	030531600	**10,231**
18	23/32	10	150	200	5	030531800	**11,525**
20	25/32	13	150	200	5	030532000	**12,642**

03054 L = 400 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
8	5/16	7,5	320	400	1	030540800	**8,266**
10	3/8	9,5	320	400	1	030541000	**11,187**
12	15/32	10	320	400	1	030541200	**13,298**
14	9/16	10	320	400	1	030541400	**13,938**
16	5/8	10	320	400	1	030541600	**24,786**
18	23/32	10	320	400	1	030541800	**31,762**
20	25/32	13	320	400	1	030542000	**38,724**
22	7/8	13	320	400	1	030542200	**40,873**
24	15/16	13	320	400	1	030542400	**44,100**

03051 L = 600 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
8	5/16	7,5	500	600	1	030510800	**10,466**
10	3/8	9,5	500	600	1	030511000	**13,524**
12	15/32	10	500	600	1	030511200	**15,170**
14	9/16	10	500	600	1	030511400	**17,170**
16	5/8	10	500	600	1	030511600	**26,644**
18	23/32	10	500	600	1	030511800	**34,692**
20	25/32	13	500	600	1	030512000	**40,643**
22	7/8	13	500	600	1	030512200	**45,823**
24	15/16	13	500	600	1	030512400	**54,044**



ASSORTIMENTI PUNTE CILINDRICHE PER MURO STANDARD PLUS
Quality rotary percussion masonry drills sets



Art. 03057202
€ 11,982

4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03057204
€ 18,331

7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03057205
€ 21,722

8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm



Art. 03057503
€ 768,563

177 pcs
Ø 3÷16 mm

370x380x570

Composizione
Description

Ø	pcs.
3	10
4	10
5	10
6	45
7	10
8	20
9	10
10	20
12	10
14	5
16	5
8x400	5
10x400	6
12x400	6
14x400	5

PUNTE CILINDRICHE PER MURO, QUALITÀ STANDARD
Carbide tipped masonry drills

03001 DIN 8039 ISO 5468

Per muratura
For masonry

130°
HVA ≃ 1600



Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	40	70	10	030010300	**0,740**
3,5	9/64	3,2	40	75	10	030010350	**0,835**
4	5/32	3,2	40	75	10	030010400	**0,782**
4,5	11/64	3,8	40	85	10	030010450	**0,855**
5	3/16	3,8	40	85	10	030010500	**0,782**
5,5	7/32	4,7	50	85	10	030010550	**0,939**
6	15/64	4,7	55	100	10	030010600	**0,855**
6,5	1/4	5,4	55	100	10	030010650	**1,066**
7	9/32	5,4	55	100	10	030010700	**0,961**
7,5	19/64	5,8	70	100	10	030010750	**1,172**
8	5/16	6	70	120	10	030010800	**1,150**
8,5	21/64	7,1	70	120	10	030010850	**1,395**
9	11/32	7,1	70	120	10	030010900	**1,268**
9,5	3/8	8	70	120	10	030010950	**1,531**
10	3/8	8	70	120	10	030011000	**1,458**
11	7/16	10	90	150	5	030011100	**2,270**
12	15/32	10	90	150	5	030011200	**2,270**
13	1/2	10	90	150	5	030011300	**3,052**
14	9/16	10	90	150	5	030011400	**3,137**
15	19/32	10	90	150	5	030011500	**3,929**
16	5/8	10	90	150	5	030011600	**3,929**
18	23/32	10	100	160	5	030011800	**4,796**
20	25/32	13	100	160	5	030012000	**5,555**
22	7/8	13	100	160	1	030012200	**7,699**
24	15/16	13	100	160	1	030012400	**9,124**
25	1"	13	100	160	1	030012500	**11,205**
26	1. 1/32	13	100	160	1	030012600	**16,116**
28	1. 1/8	13	100	160	1	030012800	**16,791**
30	1. 3/16	13	100	160	1	030013000	**18,969**
32	1. 1/4	13	100	160	1	030013200	**20,996**

Applicazioni
Applications



Muro
Masonry



Art. 03002 Self
Disponibile su richiesta
On demand

03005 L = 200 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
6	15/64	4,7	115	200	5	030050600	**2,612**
8	5/16	6	115	200	5	030050800	**2,894**
9	11/32	7,1	115	200	5	030050900	**3,648**
10	3/8	8	115	200	5	030051000	**3,648**
12	15/32	10	120	200	5	030051200	**4,469**
13	1/2	10	120	200	5	030051300	**4,999**
14	9/16	10	120	200	5	030051400	**5,518**
16	5/8	10	120	200	5	030051600	**6,855**
18	23/32	10	120	200	5	030051800	**8,788**
20	25/32	13	120	200	5	030052000	**10,438**



Art. 03021 Self
Disponibile su richiesta
On demand

03009 L = 300 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
6	15/64	4,7	180	300	5	030090600	**3,152**
8	5/16	6	180	300	5	030090800	**3,563**
9	11/32	7,1	180	300	5	030090900	**4,556**
10	3/8	8	180	300	5	030091000	**4,556**
12	15/32	10	180	300	5	030091200	**5,237**
13	1/2	10	180	300	5	030091300	**6,326**
14	9/16	10	180	300	5	030091400	**6,725**
16	5/8	10	180	300	5	030091600	**8,582**
18	23/32	10	180	300	5	030091800	**10,979**
20	25/32	13	180	300	5	030092000	**13,053**



Art. 03024 Self
Disponibile su richiesta
On demand



PUNTE CILINDRICHE PER MURO, QUALITÀ STANDARD
Carbide tipped masonry drills

03011

L = 400 mm

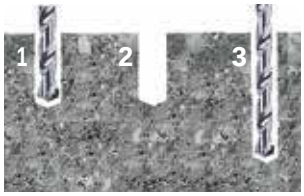
Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
6	15/64	5	240	400	5	030110600	**3,488**
8	5/16	7	240	400	5	030110800	**4,047**
9	11/32	8	240	400	5	030110900	**5,549**
10	3/8	9	240	400	5	030111000	**5,549**
11	7/16	10	240	400	5	030111100	**5,948**
12	15/32	10	240	400	5	030111200	**5,948**
13	1/2	10	240	400	5	030111300	**7,092**
14	9/16	10	240	400	5	030111400	**7,092**
15	19/32	10	240	400	5	030111500	**9,025**
16	5/8	10	240	400	5	030111600	**9,025**
18	23/32	10	240	400	5	030111800	**11,553**
20	25/32	13	240	400	5	030112000	**14,769**
22	7/8	13	240	400	1	030112200	**20,728**
24	15/16	13	250	400	1	030112400	**23,998**
25	1"	13	250	400	1	030112500	**27,205**
26	1/32	13	250	400	1	030112600	**30,422**
28	1/8	13	250	400	1	030112800	**32,646**
30	3/16	13	250	400	1	030113000	**37,050**
32	1/4	13	250	400	1	030113200	**42,492**

Art. 03022 Self
Disponibile su richiesta
On demand

03015

L = 600 mm

Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
6	15/64	5	370	600	5	030150600	**6,186**
8	5/16	7	370	600	5	030150800	**6,887**
9	11/32	8	370	600	5	030150900	**8,582**
10	3/8	9	370	600	5	030151000	**8,993**
11	7/16	10	370	600	5	030151100	**9,285**
12	15/32	10	370	600	5	030151200	**9,866**
13	1/2	10	370	600	5	030151300	**11,553**
14	9/16	10	370	600	5	030151400	**12,307**
15	19/32	10	370	600	5	030151500	**15,568**
16	5/8	10	370	600	5	030151600	**17,144**
18	23/32	10	370	600	5	030151800	**19,906**
20	25/32	13	370	600	5	030152000	**23,372**
22	7/8	13	370	600	1	030152200	**34,211**
24	15/16	13	370	600	1	030152400	**42,253**
25	1"	13	370	600	1	030152500	**46,659**
26	1/32	13	370	600	1	030152600	**48,526**
28	1/8	13	370	600	1	030152800	**54,960**
30	3/16	13	370	600	1	030153000	**63,273**
35	3/8	13	370	600	1	030153500	**79,952**



Si consiglia di eseguire un preforo di 100÷150 mm dello stesso diametro.

Use same size pilot drill for 100÷150 mm depth.

Art. 03023 Self
Disponibile su richiesta
On demand



Art. 03050101
€ 18,399
15 pcs
Ø 3÷10 x 0,5 mm



Art. 03050203
€ 7,240
5 pcs
Ø 4 - 5 - 6 - 8 - 10 mm



Art. 03050204
€ 10,280
7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03050205
€ 12,064
8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm



Art. 03050503
€ 799,593
281 pcs
Ø 3÷20 mm

370x380x570

Composizione
Description

Ø	pcs.
3	20
4	20
5	20
6	60
7	20
8	30
9	10
10	20
12	10
14	10
16	5
18	3

Ø	pcs.
8x400	10
10x400	10
12x400	10
14x400	10
16x400	5
18x400	5
20x400	3

PUNTA“FORATUTTO” UNIVERSALE MULTIK AD ALTE PRESTAZIONI PER IL TAGLIO DI TUTTI I MATERIALI

High performance multi-purpose drill bit

03076 DIN 8039 ISO 5468

Universali - Foratutto
Universal - Multipurpose



HVA ≃ 1650



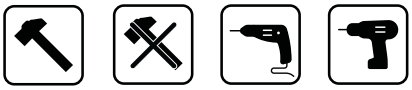
HVA ≃ 1650



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
3	2,8	40	70	1	030760300070	**5,052**
4	3,8	40	75	1	030760400075	**5,083**
5	4,5	50	85	1	030760500085	**5,211**
5	4,5	90	150	1	030760500150	**7,480**
5,5	4,5	50	85	1	030760550085	**5,400**
6	5,5	60	100	1	030760600100	**5,483**
6	5,5	90	150	1	030760600150	**8,353**
6	5,5	200	250	1	030760600250	**10,216**
6,5	5,5	60	100	1	030760650100	**6,425**
7	6,5	60	100	1	030760700100	**6,947**
8	7,2	80	120	1	030760800120	**7,471**
8	7,2	90	150	1	030760800150	**9,160**
8	7,2	200	250	1	030760800250	**10,483**
8	7,2	350	400	1	030760800400	**41,522**
9	8	80	120	1	030760900120	**8,274**
10	9	80	120	1	030761000120	**8,772**
10	9	90	150	1	030761000150	**11,029**
10	9	200	250	1	030761000250	**13,701**
10	9	350	400	1	030761000400	**44,935**
11	10	90	150	1	030761100150	**12,143**
12	10	90	150	1	030761200150	**12,400**
12	10	200	250	1	030761200250	**15,874**
12	10	350	400	1	030761200400	**47,651**
14	12,3	150	200	1	030761400200	**17,175**
14	12,3	200	250	1	030761400250	**17,728**
16	14	150	200	1	030761600200	**28,078**



Applicazioni
Applications


Pietre naturali e artificiali
Natural and artificial stones


Ceramica
Ceramics


Metalli
Metals


Piastrelle, mattoni durissimi
Tiles, hard burnt brick


Pietra - Granito
Natural stones granit


Legno
Wood


Plastica
Plastic

Taglio preciso e senza sbavature **a rotazione** in metalli, ceramica e in tutti i materiali da edilizia durissimi (sino 8° Mohs) e **a rotopercussione** in marmo, granito, pietre.

*Precise cut, **rotation only**, into hardened steel, metals, ceramic and hard building materials (up to 8° Mohs). **Rotary percussion** cut into marble, granit, stones.*

Placchetta affilata con diamante con geometria innovativa.
Corpo rettificato con scarico ad “U”, in acciaio legato HRC 40÷50. Saldobrasatura a 1100° C.

Large milled flute type “U” for an efficient dust removal.
Diamond sharpened. Body in alloy steel with HRC 40÷50. Brazing temperature at 1100° C.



Art. 03078201
€ 31,665
4 pcs
Ø 4x75 - 5x85
6x100 - 8x120 mm

Art. 03078202
€ 32,000
4 pcs
Ø 5x85 - 6x100
8x120 - 10x120 mm

Art. 03078204
€ 58,477
7 pcs
Ø 3x70 - 4x75
5x85 - 6x100
8x120 - 9x120
10x120 mm

Art. 03078208
€ 66,000
8 pcs
Ø 3x70 - 4x75
5x85 6x100
8x120 - 9x120
10x120 - 12X150 mm

PUNTA “FORATUTTO” UNIVERSALE MULTIK AD ALTE PRESTAZIONI PER IL TAGLIO DI TUTTI I MATERIALI CON ATTACCO HEX 1/4"

High performance multi-purpose drill bit

03077 DIN 8039 ISO 5468

Universali - Foratutto
Universal - Multipurpose

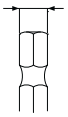


HVA ≃ 1650



Confezione
Packaging





Ø *mm*	pollici *inches*	d	l	L	pcs.	cod.	€ cad/each
3	1/8	1/4	45	90	1	030770300090	**6,399**
4	5/32	1/4	45	90	1	030770400090	**6,444**
5	3/16	1/4	50	100	1	030770500100	**6,579**
5,5	7/32	1/4	60	100	1	030770550100	**7,085**
6	15/64	1/4	60	100	1	030770600100	**7,243**
6	15/64	1/4	200	250	1	030770600250	**13,124**
6,5	1/4	1/4	200	250	1	030770650250	**13,777**
7	9/32	1/4	50	100	1	030770700100	**8,888**
8	5/16	1/4	50	100	1	030770800100	**8,730**
10	3/8	1/4	90	150	1	030771000150	**12,764**



Taglio preciso e senza sbavature **a rotazione** in metalli, ceramica e in tutti i materiali da edilizia durissimi (sino 8° Mohs) e **a rotopercussione** in marmo, granito, pietre.

*Precise cut, **rotation only**, into hardened steel, metals, ceramic and hard building materials (up to 8° Mohs). **Rotary percussion** cut into marble, granit, stones.*

Placchetta affilata con diamante con geometria innovativa.
Corpo rettificato con scarico ad “U”, in acciaio legato HRC 40÷50. Saldobrasatura a 1100° C.

Large milled flute type “U” for an efficient dust removal.
Diamond sharpened. Body in alloy steel with HRC 40÷50. Brazing temperature at 1100° C.

Applicazioni
Applications


Pietre naturali e artificiali
Natural and artificial stones


Ceramica
Ceramics


Metalli
Metals


Piastrelle, mattoni durissimi
Tiles, hard burnt brick


Pietra - Granito
Natural stones granit


Legno
Wood


Plastica
Plastic



Art. 03078301
€ 39,367

4 pcs
Ø 4 - 5 - 6 - 8 mm

PUNTA “FORATUTTO” UNIVERSALE
PER IL TAGLIO DI TUTTI I MATERIALI
High performance multi-purpose drill bit

03080 DIN 8039 ISO 5468

Universali - Foratutto
Universal - Multipurpose

130°

HVA ≈ 1650

Affilatura positiva
Positive relief



Confezione
Packaging



Ø mm	pollici inches	d	l	L	pcs.	cod.	€ cad/each
3	1/8	2,8	40	70	10	030800300	**2,884**
4	5/32	3,8	40	75	10	030800400	**2,884**
5	3/16	4,5	40	85	10	030800500	**2,884**
6	15/64	5,5	55	100	10	030800600	**3,011**
7	9/32	6,5	55	100	10	030800700	**3,415**
8x107	5/16	7,5	70	107	10	030800800C	**3,642**
8	5/16	7,5	70	120	10	030800800	**3,642**
9	11/32	8	70	120	10	030800900	**4,301**
10	3/8	9	70	120	10	030801000	**4,580**
11	7/16	10	90	150	6	030801100	**6,250**
12x120	15/32	10	90	120	6	030801200C	**6,250**
12	15/32	10	90	150	6	030801200	**6,250**
13	1/2	10	90	150	6	030801300	**9,017**
14	9/16	10	90	150	6	030801400	**10,699**
15	19/32	10	90	150	6	030801500	**14,050**
16	5/8	10	90	150	6	030801600	**14,050**

Art. 03081
Self
Disponibile
su richiesta
On demand

03082

L = 250 mm

ØxL mm	d	l	L	pcs.	cod.	€ cad/each
6x150	5,5	125	150	10	030820600	**7,463**
8x250	7,5	130	250	10	030820800	**11,001**
10x250	9	130	250	10	030821000	**11,461**
12x250	10	130	250	6	030821200	**14,426**
14x250	10	130	250	6	030821400	**22,463**

Art. 03083
Self
Disponibile
su richiesta
On demand

Applicazioni
Applications

- Pietre naturali e artificiali — *Natural and artificial stones*
- Ceramica — *Ceramics*
- Metalli — *Metals*
- Piastrelle, mattoni durissimi — *Tiles, hard burnt brick*
- Pietra - Granito — *Natural stones granit*
- Legno — *Wood*
- Plastica — *Plastic*

Per forare **a sola rotazione**: acciaio duro, acciai in genere, ghisa, tutti i metalli, muro, calcestruzzo, ceramica, pavimenti in genere, legno e derivati, plastica, laminati.

*For **rotary cutting** in hardened steel, metals, cement, brick, tiles, ceramic, wood, plastics.*



Art. 03085201
€ 14,367
4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03085202
€ 21,893
7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03085203
€ 26,673
8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm



Art. 03085503
€ 807,061
156 pcs
Ø 3÷16 mm

370x380x570

Composizione
Description

Ø	pcs.
3	9
4	9
5	18
6	27
7	9
8	18
9	6
10	18
11	6
12	12
13	6
14	6
15	6
16	6

ASSORTIMENTI *SETS*

PUNTA UNIVERSALE “FORATUTTO®” CON ATTACCO HEX 1/4”
Multi-purpose drill bits

03089

Universali - Foratutto
Universal - Multipurpose

130°
HVA ≈ 1750

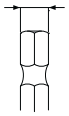


Confezione
Packaging



Ø mm	d ⬡	l	L	pcs.	cod.	€ cad/each
3	1/4	33	75	1	030890300	**3,972**
4	1/4	40	83	1	030890400	**4,196**
5	1/4	46	93	1	030890500	**4,196**
6	1/4	56	97	1	030890600	**4,533**
7	1/4	48	97	1	030890700	**4,879**
8	1/4	70	120	1	030890800	**4,971**
9	1/4	70	120	1	030890900	**5,360**
10	1/4	70	120	1	030891000	**5,636**

1/4" HEX FORM E



Applicazioni
Applications

Pietre naturali e artificiali
Natural and artificial stones

Ceramica
Ceramics

Metalli
Metals

Piastrelle, mattoni durissimi
Tiles, hard burnt brick

Pietra - Granito
Natural stones granit

Legno
Wood

Plastica
Plastic



Art. 03085700
€ 27,355

5 pcs
Ø 4 - 5 - 6
8 - 10 mm

PUNTE PER VETRO E CERAMICA
Glass drill bits

03140

Per vetro e ceramica
For glass and ceramic

HRA 90



Confezione
Packaging



Ø mm	d	L	pcs.	cod.	€ cad/each
3	3	58	1	031400300	**4,441**
4	3	58	1	031400400	**4,607**
5	4	58	1	031400500	**4,782**
6	5	58	1	031400600	**5,257**
7	5	78	1	031400700	**5,773**
8	6	78	1	031400800	**5,773**
9	6	98	1	031400900	**6,597**
10	7	98	1	031401000	**8,245**
12	8	98	1	031401200	**10,307**

Applicazioni
Applications

Vetro
Glass

Ceramica
Ceramics

Taglio a sola rotazione nel vetro, selezionando la velocità di taglio più bassa possibile e refrigerando con acqua o trementina. Riaffilare frequentemente nel taglio di vetri duri.

Rotary cut in glass, with water cooling, at low speed.



Art. 03146700
€ 27,511

5 pcs
Ø 4 - 5 - 6
8 - 10 mm



Art. 03143 Self
Disponibile su richiesta
On demand

VISIONE D'INSIEME: PUNTE PER MURO CON ATTACCO SDS
Overview: Masonry drills with SDS shank

TIPO DI ATTACCO *SHANK*	DESCRIZIONE *DESCRIPTION*	IMMAGINE *IMAGE*	N° TAGLIENTI *N° CUTTING EDGES*	N° ELICHE *N° HELIX*
SDS-PLUS	HAMMER		4	4
	Speedmaster 4x4		4	4
	SDSlite		4	4
	K-8		4	4
	K4 SUPERPRO *K4 SUPERPRO*		2	4
	STANDARD *STANDARD*		2	2
SDS-MAX	SPECIALE GRANDI DIAMETRI DA 45 A 80 mm *SPECIAL* *FOR BIG DIAMETERS FROM 45 TO 80 mm*		2	2
	SUPER PRO *SUPER PRO*		2	2

SPECIALI CON ASPIRAZIONE POLVERE - *SPECIALI CON ASPIRAZIONE POLVERE*

SDS-PLUS	DUST FREE *DUST FREE*		**4 ≤ 28 mm** 2 > 28 mm	0
SDS-MAX	DUST FREE *DUST FREE*		**4 ≤ 28 mm** 2 > 28 mm	0

MATTONI *BRICK*	CALCESTRUZZO *CONCRETE*	CALCESTRUZZO ARMATO *REINFORCED CONCRETE*	GRANITO *GRANITE*	PIETRE NATURALI E ARTIFICIALI *NATURAL AND ARTIFICIAL STONES*		
						
●	●	●	●	●	COD.	03169 p.520
●	●	●	●	●	COD.	03167 p.522
●	●	●	●	●	COD.	03152 p.525
●	●	●	●	●	COD.	03156 p.526
●	●	●	●	●	COD.	03160 p.528
●	●		●	●	COD.	03155 p.530
●	●			●	COD.	03171 p.532
●	●	●	●	●	COD.	03170 p.533
●	●	●	●	●	COD.	03172 p.534
●	●	●	●	●	COD.	03172 p.535

PUNTE PER TRAPANI A MARTELLO SDS-PLUS
CON 4 ELICHE E 4 TAGLIENTI
SDS-PLUS hammer drills, 4 flutes, 4 cutting edges

HAMMER

03169

Testa integrale in MD - 4 taglienti
Full carbide head - 4 edges

Saldatura per diffusione elettronica, 3 volte più resistente della saldobrasatura
Electronic diffusion bond, 3 times more resistant than brazing

MADE IN GERMANY



Confezione
Packaging



Ø mm	L	l	pcs.	cod.	€ cad/each
3,5	115	50	1	031691150350	**11,246**
3,5	165	100	1	031691650350	**12,505**
4	115	50	1	031691150400	**12,155**
4	165	100	1	031691650400	**12,694**
5	115	50	1	031691150500	**8,723**
5	165	100	1	031691650500	**9,854**
5	215	150	1	031692150500	**12,268**
5	265	200	1	031692650500	**14,596**
5	315	250	1	031693150500	**20,375**
5	465	400	1	031694650500	**35,562**
5,5	115	50	1	031691150550	**9,290**
5,5	165	100	1	031691650550	**10,494**
5,5	215	150	1	031692150550	**12,268**
5,5	265	200	1	031692650550	**15,429**
5,5	315	250	1	031693150550	**20,375**
5,5	465	400	1	031694650550	**37,341**
6	115	50	1	031691150600	**9,150**
6	165	100	1	031691650600	**10,055**
6	215	150	1	031692150600	**12,339**
6	265	200	1	031692650600	**14,533**
6	315	250	1	031693150600	**20,597**
6	465	400	1	031694650600	**35,562**
6,5	115	50	1	031691150650	**10,219**
6,5	165	100	1	031691650650	**12,339**
6,5	215	150	1	031692150650	**16,625**
6,5	265	200	1	031692650650	**20,009**
6,5	315	250	1	031693150650	**24,597**
6,5	465	400	1	031694650650	**48,000**
7	115	50	1	031691150700	**12,155**
7	165	100	1	031691650700	**13,233**
7	215	150	1	031692150700	**16,003**
7	265	215	1	031692650700	**29,400**
8	115	50	1	031691150800	**10,417**
8	165	100	1	031691650800	**10,652**
8	215	150	1	031692150800	**12,523**
8	265	200	1	031692650800	**14,744**
8	315	250	1	031693150800	**19,813**
8	365	300	1	031693650800	**30,228**
8	465	400	1	031694650800	**32,514**
9	165	100	1	031691650900	**12,339**
9	215	150	1	031692150900	**14,178**
10	115	50	1	031691151000	**10,730**
10	165	100	1	031691651000	**11,786**
10	215	150	1	031692151000	**13,691**
10	265	200	1	031692651000	**16,625**
10	315	250	1	031693151000	**20,009**
10	365	300	1	031693651000	**32,006**
10	465	400	1	031694651000	**35,128**
10	600	550	1	031696001000	**66,151**
10	1000	950	1	0316910001000	**143,942**

Ø mm	L	l	pcs.	cod.	€ cad/each
11	165	100	1	031691651100	**16,257**
11	215	150	1	031692151100	**18,899**
11	265	200	1	031692651100	**23,174**
12	165	100	1	031691651200	**13,331**
12	215	150	1	031692151200	**16,136**
12	265	200	1	031692651200	**18,713**
12	315	250	1	031693151200	**25,301**
12	365	300	1	031693651200	**35,562**
12	465	400	1	031694651200	**37,172**
12	600	550	1	031696001200	**67,985**
12	1000	950	1	0316910001200	**153,621**
13	165	100	1	031691651300	**18,367**
13	215	150	1	031692151300	**25,224**
13	265	200	1	031692651300	**30,177**
14	165	100	1	031691651400	**18,437**
14	215	150	1	031692151400	**24,597**
14	265	200	1	031692651400	**28,205**
14	315	250	1	031693151400	**31,111**
14	365	300	1	031693651400	**39,118**
14	465	400	1	031694651400	**39,582**
14	600	550	1	031696001400	**70,196**
14	1000	950	1	0316910001400	**188,042**
15	165	100	1	031691651500	**26,672**
15	265	200	1	031692651500	**33,220**
15	465	400	1	031694651500	**47,552**
16	215	150	1	031692151600	**32,463**
16	265	200	1	031692651600	**36,654**
16	315	250	1	031693151600	**41,303**
16	465	400	1	031694651600	**49,838**
16	600	550	1	031696001600	**82,685**
16	1000	950	1	0316910001600	**194,781**
17	215	150	1	031692151700	**54,814**
17	315	250	1	031693151700	**63,516**
18	250	200	1	031692501800	**57,271**
18	450	400	1	031694501800	**68,291**
18	600	550	1	031696001800	**76,252**
18	1000	950	1	0316910001800	**179,399**
20	250	200	1	031692502000	**65,727**
20	450	400	1	031694502000	**72,089**
20	600	550	1	031696002000	**146,694**
20	1000	950	1	0316910002000	**209,163**
22	250	200	1	031692502200	**81,520**
22	450	400	1	031694502200	**107,063**
22	600	550	1	031696002200	**151,716**
22	1000	950	1	0316910002200	**212,845**
24	450	400	1	031694502400	**120,482**
25	450	400	1	031694502500	**122,504**
25	600	550	1	031696002500	**178,294**
25	1000	950	1	0316910002500	**245,125**
28	450	400	1	031694502800	**135,605**
30	450	400	1	031694503000	**148,471**

Applicazioni
Applications

Muro
Masonry

Calcestruzzo armato
Reinforced Concrete

Pietra
Natural Stones

Ø 18÷30 mm:
4 taglienti
2 eliche

Ø 18÷30 mm:
2 flutes
4 cutting edges


ø 3,5÷4 mm


ø5÷16 mm

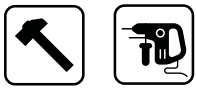

ø 18÷30 mm

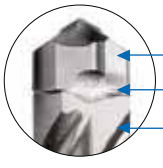
4 taglienti HVA 1650
Placchetta integrale a 4 taglienti in metallo duro resistente alla forte percussione, è saldato al corpo per diffusione elettronica.

4 cutting edges HVA 1650
One-piece 4 cutting edges carbide tip resisting to percussion. Welded to the body by electronic diffusion bond.

4 eliche
Corpo fresato con scanalatura a "L" ad alta evacuazione.

4 flutes
Large milled flute type "L" for a faster dust removal.







Art. 03174203
€ 59,928

5 pcs
Ø 5 - 6 x 115 mm
Ø 8 - 10 - 12 x 165 mm



Art. 03174403
€ 86,505

7 pcs
Ø 5 - 6 - 8 x 115 mm
Ø 6 - 8 - 10 - 12 x 165 mm



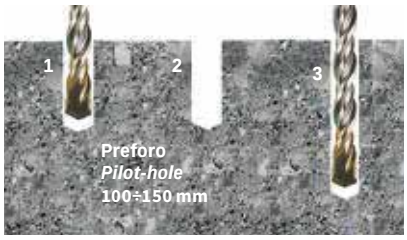
370x380x570

Art. 03174503
€ 976,433

68 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.	Ø	pcs.
5x115	3	**10x215**	3
6x115	8	**12x215**	3
5x165	3	**14x215**	2
6x165	8	**16x215**	2
8x165	8	**8x265**	2
10x165	5	**10x265**	2
12x165	5	**12x265**	2
6x215	4	**14x265**	2
8x215	4	**16x265**	2



Per punte con L ≥ 300 mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with L ≥ 300 mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.

La speciale testa dell'utensile è saldata al corpo per diffusione: questa nuova tecnologia garantisce un legame estremamente stabile tra placchetta in metallo duro e corpo della punta, perché la giunzione avviene allo stato solido per diffusione degli atomi del reticolo cristallino all'interfaccia tra i due pezzi.
La placchetta in metallo duro monoblocco a 4 taglienti garantisce una grande capacità di taglio, una perfetta trasmissione della potenza e un'ottima asportazione dei detriti grazie alla combinazione dei 4 taglienti, della placchetta integrale e delle 4 eliche. La punta a 4 taglienti e 4 spirali taglia sempre e senza problemi il tondino nel cemento armato. Garantisce un grande rendimento di taglio in tutti i materiali edili, cemento, granito, cemento armato, pietre in genere, mattoni. Grande precisione di foratura, grande durata della vita dell'utensile, massima limitazione delle vibrazioni del martello.

One-piece carbide tip is welded to the body by electronic diffusion bonding: this new technology assures a very stable link between the carbide tip and the drill body, because the bonding is made between solid phases through the atoms diffusion. The solid carbide tip assures high performances, a good power transmission and a great debris removal thanks to 4 flutes and 4 cutting edges one-piece solid carbide. The hammer drill 4x4 Speedmaster always cuts the steel bar into reinforced concrete. You can drill into all the building materials, concrete, masonry, reinforced concrete, stones, bricks. It assures thorough holes, long tool life cycle, low hammer vibrations

PUNTE PER TRAPANI A MARTELLO SDS-PLUS
CON 4 ELICHE E 4 TAGLIENTI
SDS-PLUS hammer drills, 4 flutes, 4 cutting edges

4x4 Speedmaster®

03167

SDS plus

MADE IN GERMANY



Confezione
Packaging



Testa integrale in MD - 4 taglienti
Full carbide head - 4 edges

Ø mm	L	l	pcs.	cod.	€ cad/each
5	110	50	1	031671100500	**10,524**
5	160	100	1	031671600500	**11,327**
5,5	110	50	1	031671100550	**11,192**
5,5	160	100	1	031671600550	**12,128**
6	110	50	1	031671100600	**10,659**
6	160	100	1	031671600600	**11,661**
6	210	150	1	031672100600	**14,614**
6	260	200	1	031672600600	**17,557**
6	310	250	1	031673100600	**25,070**
6,5	160	100	1	031671600650	**14,815**
6,5	210	150	1	031672100650	**19,978**
6,5	260	200	1	031672600650	**25,673**
6,5	310	250	1	031673100650	**29,887**
7	110	50	1	031671100700	**14,069**
7	160	100	1	031671600700	**14,882**
8	110	50	1	031671100800	**12,396**
8	160	100	1	031671600800	**13,078**
8	210	150	1	031672100800	**14,882**
8	260	200	1	031672600800	**18,093**
8	310	250	1	031673100800	**25,807**
8	460	400	1	031674600800	**36,464**
9	160	100	1	031671600900	**13,745**
10	110	50	1	031671101000	**12,865**
10	160	100	1	031671601000	**13,745**
10	210	150	1	031672101000	**16,219**
10	260	200	1	031672601000	**19,776**
10	310	250	1	031673101000	**23,789**
10	450	400	1	031674501000	**41,625**
10	600	550	1	031676001000	**60,532**
10	1000	950	1	0316710001000	**150,817**
11	160	100	1	031671601100	**16,476**
11	210	150	1	031672101100	**19,877**
12	160	100	1	031671601200	**15,885**
12	210	150	1	031672101200	**19,375**
12	260	200	1	031672601200	**21,983**
12	310	250	1	031673101200	**30,165**
12	450	400	1	031674501200	**45,317**
12	600	550	1	031676001200	**62,393**

Ø mm	L	l	pcs.	cod.	€ cad/each
12	1000	950	1	0316710001200	**159,188**
13	160	100	1	031671601300	**20,723**
13	210	150	1	031672101300	**34,670**
13	260	200	1	031672601300	**39,017**
13	310	250	1	031673101300	**41,770**
14	160	100	1	031671601400	**22,452**
14	210	150	1	031672101400	**30,021**
14	260	200	1	031672601400	**33,110**
14	310	250	1	031673101400	**37,200**
14	450	400	1	031674501400	**46,720**
14	600	550	1	031676001400	**67,699**
14	1000	950	1	0316710001400	**165,219**
15	160	100	1	031671601500	**35,127**
15	210	150	1	031672101500	**40,891**
15	260	200	1	031672601500	**44,501**
15	450	400	1	031674501500	**58,982**
16	160	100	1	031671601600	**37,200**
16	210	150	1	031672101600	**41,893**
16	260	200	1	031672601600	**44,580**
16	310	250	1	031673101600	**50,265**
16	450	400	1	031674501600	**59,663**
16	600	550	1	031676001600	**82,850**
16	1000	950	1	0316710001600	**174,260**
18	250	200	1	031672501800	**61,056**
18	450	400	1	031674501800	**72,114**
20	250	200	1	031672502000	**68,236**
20	450	400	1	031674502000	**78,491**
22	250	200	1	031672502200	**72,315**
22	450	400	1	031674502200	**91,021**
24	250	200	1	031672502400	**83,585**
24	450	400	1	031674502400	**100,741**
25	250	200	1	031672502500	**86,540**
25	450	400	1	031674502500	**106,103**
28	250	200	1	031672502800	**102,013**
28	450	400	1	031674502800	**112,134**
30	250	200	1	031672503000	**107,519**
30	450	400	1	031674503000	**146,737**
32	450	400	1	031674503200	**157,917**

Applicazioni
Applications

Muro
Masonry

Calcestruzzo armato
Reinforced Concrete

Pietra
Natural Stones

4 taglienti HVA 1650
Placchetta integrale a 4 taglienti in metallo duro resistente alla forte percussione, brasatura con lega saldante a 1100°C.

4 cutting edges HVA 1650
One-piece 4 cutting edges carbide tip resisting to percussion. Brazing temperature at 1000°C

4 eliche
Corpo fresato con scanalatura a "L" ad alta evacuazione.

4 flutes
Large milled flute type "L" for a faster dust removal.



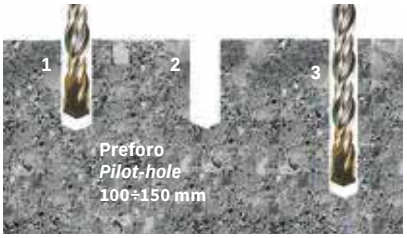
Solid
Carbide head
Ø 5-10 mm



Single
Carbide tip
Ø 12-16 mm



Multi-part
Carbide tip
Ø 18-32 mm



Per punte con L ≥ 300 mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with L ≥ 300 mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.



Art. 03168402
€ 98,000

7 pcs
Ø 5 - 6 - 8 x 110 mm
Ø 6 - 8 - 10 - 12 x 160 mm



Art. 03168203
€ 76,163

5 pcs
Ø 5 - 6 x 110 mm
Ø 8 - 10 -12 x 160 mm



Art. 03168460
€ 544,691

30 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.
6x160	5
8x160	5
10x160	5
12x160	5
10x210	5
12x210	3
14x210	2



370x380x570

Art. 03168503
€ 1.355,717

68 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.
5x110	3
6x110	8
5x160	3
6x160	8
8x160	8
10x160	5
12x160	5
6x210	4
8x210	4
10x210	3
12x210	3
14x210	2
16x210	2
8x260	2
10x260	2
12x260	2
14x260	2
16x260	2



370x380x570

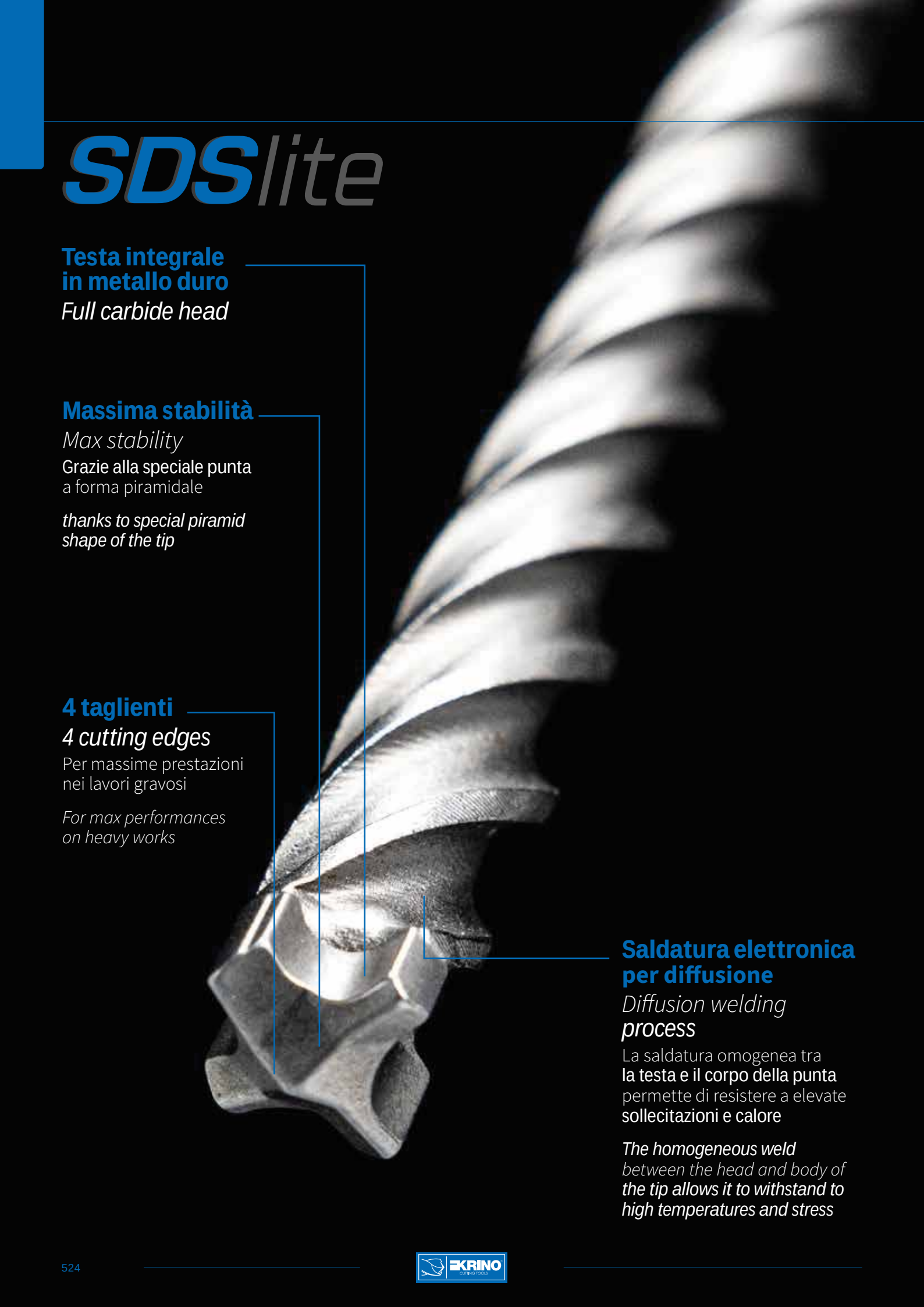
Art. 03168500
€ 1.012,143

46 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.
5x110	4
6x110	6
6x160	6
8x160	6
10x160	4
12x160	4
8x210	4
10x210	2
12x210	2
14x210	2
16x210	2
14x260	2
16x260	2

SDS*lite*



Testa integrale in metallo duro
Full carbide head

Massima stabilità
Max stability
Grazie alla speciale punta a forma piramidale

thanks to special piramid shape of the tip

4 taglienti
4 cutting edges
Per massime prestazioni nei lavori gravosi

For max performances on heavy works

Saldatura elettronica per diffusione
Diffusion welding process
La saldatura omogenea tra la testa e il corpo della punta permette di resistere a elevate sollecitazioni e calore

The homogeneous weld between the head and body of the tip allows it to withstand to high temperatures and stress

PUNTE "SDS LITE" PER TRAPANI A MARTELLO SDS-PLUS CON 4 ELICHE E 4 TAGLIENTI

SDS-PLUS hammer drills "SDS-LITE", 4 flutes, 4 cutting edges

SDSlite

03152

Testa integrale in MD - 4 taglienti
Full carbide head - 4 edges

SDS PLUS



Confezione
Packaging



Ø mm	L	l	pcs.	cod.	€ cad/each
6	115	50	1	031521150600	**6,680**
6	165	100	1	031521650600	**7,345**
6	215	150	1	031522150600	**9,010**
8	115	50	1	031521150800	**7,605**
8	165	100	1	031521650800	**7,990**
8	215	150	1	031522150800	**9,395**
8	265	200	1	031522650800	**12,095**
8	315	250	1	031523150800	**14,860**
10	165	100	1	031521651000	**9,195**
10	215	150	1	031522151000	**10,680**
10	265	200	1	031522651000	**13,635**
10	315	250	1	031523151000	**16,410**
12	165	100	1	031521651200	**12,910**
12	215	150	1	031522151200	**12,910**
12	265	200	1	031522651200	**15,910**
12	315	250	1	031523151200	**18,470**
12	465	400	1	031524651200	**27,140**

Applicazioni
Applications

Muro
Masonry

Calcestruzzo armato
Reinforced Concrete

Pietra
Natural Stones



Per punte con L ≥ 300 mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with L ≥ 300 mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.

PUNTE PER TRAPANI A MARTELLO SDS-PLUS
CON 4 ELICHE E 4 TAGLIENTI
SDS-PLUS hammer drills, 4 flutes, 4 cutting edges

EK-8

03156

4 taglienti
4 cutting edges

SDS PLUS



HVA = 1650



4 taglienti
4 cutting edges

4 spirali
4 spirals



Confezione
Packaging



Ø mm	L	l	pcs.	cod.	€ cad/each
5	110	50	1	031561100500	**3,745**
5	160	100	1	031561600500	**4,370**
5,5	160	100	1	031561600550	**4,714**
6	110	50	1	031561100600	**3,996**
6	160	100	1	031561600600	**4,714**
6	210	150	1	031562100600	**6,551**
6	260	200	1	031562600600	**7,488**
6,5	160	100	1	031561600650	**4,829**
6,5	210	150	1	031562100650	**6,551**
6,5	260	200	1	031562600650	**7,488**
7	110	50	1	031561100700	**4,235**
7	160	100	1	031561600700	**4,829**
8	110	50	1	031561100800	**4,370**
8	160	100	1	031561600800	**4,965**
8	210	150	1	031562100800	**6,685**
8	260	200	1	031562600800	**7,625**
8	310	250	1	031563100800	**9,220**
8	460	400	1	031564600800	**15,176**
9	160	100	1	031561600900	**5,048**
9	210	150	1	031562100900	**7,113**
10	110	50	1	031561101000	**4,486**
10	160	100	1	031561601000	**5,122**
10	210	150	1	031562101000	**7,113**
10	260	200	1	031562601000	**7,750**
10	310	250	1	031563101000	**11,275**
10	360	300	1	031563601000	**13,978**
10	460	400	1	031564601000	**15,219**
10	610	550	1	031566101000	**24,606**
11	160	100	1	031561601100	**5,800**
11	210	150	1	031562101100	**7,468**
11	260	200	1	031562601100	**8,042**
12	160	100	1	031561601200	**5,800**
12	210	150	1	031562101200	**7,812**
12	260	200	1	031562601200	**8,355**
12	310	250	1	031563101200	**13,341**
12	460	400	1	031564601200	**16,303**
12	600	550	1	031566001200	**27,016**

Ø mm	L	l	pcs.	cod.	€ cad/each
13	160	100	1	031561601300	**6,645**
13	210	150	1	031562101300	**8,532**
13	260	200	1	031562601300	**8,836**
13	460	400	1	031564601300	**14,488**
14	160	100	1	031561601400	**7,824**
14	210	150	1	031562101400	**8,699**
14	260	200	1	031562601400	**9,232**
14	310	250	1	031563101400	**13,487**
14	460	400	1	031564601400	**15,042**
14	600	550	1	031566001400	**29,195**
15	160	100	1	031561601500	**9,220**
15	260	200	1	031562601500	**10,107**
16	160	100	1	031561601600	**10,712**
16	210	150	1	031562101600	**11,306**
16	260	200	1	031562601600	**14,353**
16	310	250	1	031563101600	**15,437**
16	460	400	1	031564601600	**16,188**
16	600	550	1	031566001600	**33,534**
18	210	150	1	031562101800	**14,821**
18	260	200	1	031562601800	**17,347**
18	310	250	1	031563101800	**16,220**
18	460	400	1	031564601800	**19,391**
18	600	550	1	031566001800	**33,514**
20	200	150	1	031562002000	**20,037**
20	310	250	1	031563102000	**21,601**
20	460	400	1	031564602000	**25,180**
20	600	550	1	031566002000	**37,352**
22	250	200	1	031562502200	**22,290**
22	460	400	1	031564602200	**28,392**
22	600	550	1	031566002200	**43,110**
24	260	200	1	031562602400	**24,293**
24	460	400	1	031564602400	**30,321**
25	260	200	1	031562602500	**26,305**
25	460	400	1	031564602500	**32,888**
26	460	400	1	031564602600	**41,128**
28	460	400	1	031564602800	**44,007**
30	460	400	1	031564603000	**51,194**

Applicazioni
Applications



Muro
Masonry



Calcestruzzo armato
Reinforced Concrete



Pietra
Natural Stones







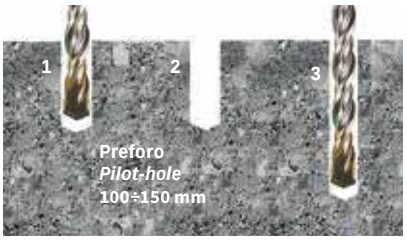


Sez. AA



Immagine ottenuta al microscopio sezionando la testa dell'utensile

Picture of the carbide tip



Per punte con L ≥ 300 mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with L ≥ 300 mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.

Placchetta in metallo duro integrale con 4 taglienti, 4 eliche rapide, corpo in acciaio ad alta resistenza.
La punta a 4 taglienti e 4 spirali taglia sempre il tondino in cemento armato e non si blocca mai.
Grande durata dell'utensile, precisione e circolarità del foro.

One-piece solid carbide with 4 cutting edges, 4 flutes, steel body with high resistance.
One-piece solid carbide tip always cuts the steel bar into reinforced concrete and it never stops.
Long life cycle, thoroughness and roundness of the hole.



METAL

Art. 03166401
€ 40,637

7 pcs
Ø 5 - 6 - 8 x 110 mm
Ø 6 - 8 - 10 - 12 x 160 mm



Art. 03166460
€ 233,913

30 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.
6x160	5
8x160	5
10x160	5
12x160	5
10x210	5
12x210	3
14x210	2



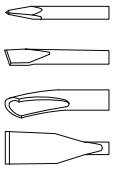
Art. 03165310
€ 69,512

13 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.
6x160	1
8x160	1
10x160	1
8x210	1
10x210	1
12x210	1
10x260	1
12x260	1
14x260	1





Ø	pcs.
L=250	1
L=250	1
L=250	1
L=250	1



370x380x570

Art. 03166503
€ 846,554

107 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.
5x110	5
6x110	10
5x160	5
6x160	10
8x160	10
10x160	10
12x160	10
6x210	5
8x210	5
10x210	5
12x210	5
14x210	5
16x210	3
8x260	5
10x260	5
12x260	3
14x260	3
16x260	3

PUNTE PER TRAPANI A MARTELLO SDS-PLUS, QUALITÀ SUPER PROFESSIONALE “K 4”

SDS-PLUS hammer drills “K 4”

03160 K4 SUPERPRO

2 taglienti
2 cutting edges

SDS plus

HVA = 1650

2 taglienti
2 cutting edges

4 spirali
4 spirals

MADE IN GERMANY



Confezione
Packaging



Applicazioni
Applications

- Muro *Masonry*
- Calcestruzzo *Concrete*
- Pietra *Natural Stones*

* Corpo a doppia spirale per
Ø ≤ 4 mm
Ø > 16 mm
Double spiral body
Ø ≤ 4 mm
Ø > 16 mm



Placchetta “attiva” con gole di scarico
"Active" plate

Ø ≤ 10 mm + Ø > 16 mm



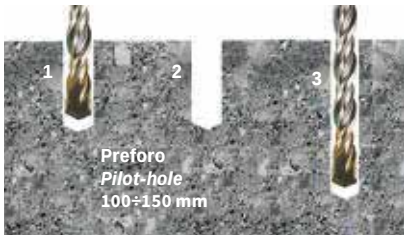
Placchetta con puntina di centraggio
Plate with centering point

10 < Ø ≤ 16 mm

Ø mm	L	l	pcs.	cod.	€ cad/each
***3,5**	110	50	1	031601100350	9,754
***3,5**	135	75	1	031601350350	15,714
***4**	110	50	1	031601100400	8,204
***4**	160	100	1	031601600400	10,676
5	110	50	1	031601100500	5,170
5	160	100	1	031601600500	7,136
5	210	150	1	031602100500	12,104
5	310	250	1	031603100500	16,809
5,5	110	50	1	031601100550	5,518
5,5	160	100	1	031601600550	7,354
5,5	210	150	1	031602100550	10,280
5,5	260	200	1	031602600550	18,820
5,5	310	250	1	031603100550	27,254
5,5	460	400	1	031604600550	46,241
6	110	50	1	031601100600	4,798
6	160	100	1	031601600600	5,864
6	210	150	1	031602100600	6,862
6	260	200	1	031602600600	8,985
6	460	400	1	031604600600	23,285
6,5	110	50	1	031601100650	5,721
6,5	160	100	1	031601600650	5,937
6,5	210	150	1	031602100650	10,041
6,5	260	200	1	031602600650	10,472
6,5	310	250	1	031603100650	13,447
7	110	50	1	031601100700	7,569
7	160	100	1	031601600700	8,770
7	210	150	1	031602100700	9,754
8	110	50	1	031601100800	5,864
8	160	100	1	031601600800	7,426
8	210	150	1	031602100800	7,642
8	260	200	1	031602600800	9,345
8	310	250	1	031603100800	12,829
8	460	400	1	031604600800	21,011
8	610	550	1	031606100800	30,103
9	160	100	1	031601600900	11,035
9	210	150	1	031602100900	12,031
10	110	50	1	031601101000	6,298
10	160	100	1	031601601000	7,354
10	210	150	1	031602101000	8,625
10	260	200	1	031602601000	10,123
10	310	250	1	031603101000	11,135
10	460	400	1	031604601000	21,756
10	610	550	1	031606101000	35,049
10	1000	950	1	0316010001000	59,339
11	160	100	1	031601601100	11,114
11	210	150	1	031602101100	15,651
11	260	200	1	031602601100	17,470
12	160	100	1	031601601200	10,843
12	210	150	1	031602101200	12,740
12	260	200	1	031602601200	14,011

Ø mm	L	l	pcs.	cod.	€ cad/each
12	310	250	1	031603101200	18,185
12	460	400	1	031604601200	23,572
12	610	550	1	031606101200	32,639
12	1000	950	1	0316010001200	69,189
13	160	100	1	031601601300	15,139
13	210	150	1	031602101300	16,492
13	260	200	1	031602601300	18,185
14	160	100	1	031601601400	12,522
14	210	150	1	031602101400	15,139
14	260	200	1	031602601400	16,061
14	310	250	1	031603101400	20,248
14	460	400	1	031604601400	25,767
14	610	550	1	031606101400	40,917
14	1000	950	1	0316010001400	81,160
15	160	100	1	031601601500	18,688
15	260	200	1	031602601500	22,648
15	460	400	1	031604601500	36,897
16	210	150	1	031602101600	21,447
16	260	200	1	031602601600	25,490
16	310	250	1	031603101600	25,982
16	460	400	1	031604601600	35,902
16	610	550	1	031606101600	42,343
16	1000	950	1	0316010001600	86,834
17	210	150	1	031602101700	34,485
18	200	150	1	031602001800	27,757
18	300	250	1	031603001800	32,075
18	450	400	1	031604501800	41,503
18	600	550	1	031606001800	57,116
18	1000	950	1	0316010001800	94,126
19	200	150	1	031602001900	44,477
19	450	400	1	031604501900	66,789
20	200	150	1	031602002000	31,932
20	300	250	1	031603002000	37,103
20	450	400	1	031604502000	46,744
20	600	550	1	031606002000	62,345
20	1000	950	1	0316010002000	107,225
22	250	200	1	031602502200	39,788
22	450	400	1	031604502200	71,599
22	600	550	1	031606002200	80,203
22	1000	950	1	0316010002200	123,250
24	250	200	1	031602502400	48,303
24	450	400	1	031604502400	67,570
25	250	200	1	031602502500	48,856
25	300	250	1	031603002500	87,613
25	450	400	1	031604502500	75,211
25	1000	950	1	0316010002500	153,094
26	250	200	1	031602502600	57,014
26	450	400	1	031604502600	74,717

L ≥ 300 mm



Corpo a 4 spirali indipendenti per un avanzamento più veloce (+35%) ed un maggior scarico dei detriti. Corpo in acciaio legato con HRC 50÷55. Geometria della testa più snella e più aggressiva, per un’ottima trasmissione della potenza. Saldobrasatura a 1100°C in atmosfera di gas protettivo.

Higher speed and durability due to the unique 4-fold spirals (more dust removal, more feeding speed); unique and aggressive head geometry for a smooth power transmission. Body in alloy steel with HRC 50÷55. Brazing temperature at 1100°C.

Taglio ad altissimo rendimento a rotopercussione, su martelli SDS-plus, nel muro, cemento, calcestruzzo, pietre. Taglia anche il tondino di acciaio del cemento armato incontrato nella foratura.

Superprofessional hammer drills for intensive usage in concrete, masonry, bricks, natural stone, etc..

ASSORTIMENTI PUNTE SDS-PLUS, QUALITÀ SUPER PROFESSIONALE “K 4”
“K 4” Hammer drills sets



Art. 03163203
€ 40,613

5 pcs
Ø 5 - 6 x 110 mm
Ø 8 - 10 - 12 x 160 mm



Art. 03163403
€ 54,696

7 pcs
Ø 5 - 6 - 8 x 110 mm
Ø 6 - 8 - 10 - 12 x 160 mm



Art. 03163460
€ 282,379

30 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.
6x160	5
8x160	5
10x160	5
12x160	5
10x210	5
12x210	3
14x210	2



390x150x225

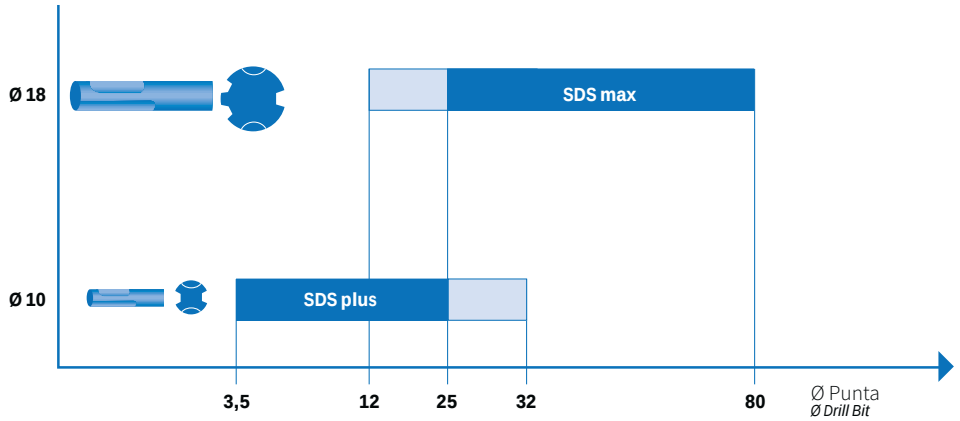
Art. 03163503
€ 742,478

71 pcs
Ø 5÷16 mm

Composizione
Description

Ø	pcs.
5x110	3
6x110	8
5x160	3
6x160	8
8x160	8
9x160	3
10x160	5
12x160	5
6x210	4
8x210	4
10x210	3
12x210	3
14x210	2
16x210	2
8x260	2
10x260	2
12x260	2
14x260	2
16x260	2

Campo di applicazione raccomandato per gli attacchi SDS per martelli
Range of applications for the SDS shanks



PUNTE PER TRAPANI A MARTELLO SDS-PLUS, QUALITÀ STANDARD
Hammer drills

03155

2 taglienti - qualità standard
2 cutting edges - standard quality

SDS PLUS





HVA ≈ 1650

2 taglienti
2 cutting edges

4 spirali
4 spirals

Confezione
Packaging



Applicazioni
Applications



Muro
Masonry



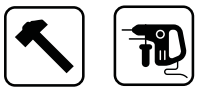
Calcestruzzo
Concrete



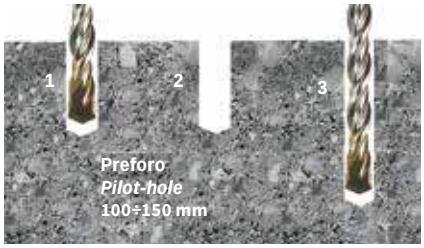
Pietra
Natural Stones

Ø mm	L	l	pcs.	cod.	€ cad/each
4	110	50	1	031551100400	**3,564**
4	160	100	1	031551600400	**3,767**
5	110	50	1	031551100500	**3,298**
5	160	100	1	031551600500	**3,502**
5	210	150	1	031552100500	**4,141**
5,5	110	50	1	031551100550	**3,479**
5,5	160	100	1	031551600550	**3,671**
5,5	210	150	1	031552100550	**4,355**
6	110	50	1	031551100600	**3,322**
6	160	100	1	031551600600	**3,634**
6	210	150	1	031552100600	**4,881**
6	260	200	1	031552600600	**5,721**
6,5	160	100	1	031551600650	**3,767**
6,5	210	150	1	031552100650	**5,217**
6,5	260	200	1	031552600650	**6,213**
6,5	310	250	1	031553100650	**8,039**
7	110	50	1	031551100700	**3,767**
7	160	100	1	031551600700	**4,224**
8	110	50	1	031551100800	**3,611**
8	160	100	1	031551600800	**4,053**
8	210	150	1	031552100800	**5,242**
8	260	200	1	031552600800	**6,213**
8	310	250	1	031553100800	**8,985**
8	460	400	1	031554600800	**14,166**
9	160	100	1	031551600900	**4,546**
9	210	150	1	031552100900	**6,250**
10	110	50	1	031551101000	**4,210**
10	160	100	1	031551601000	**4,655**
10	210	150	1	031552101000	**5,768**
10	260	200	1	031552601000	**6,765**
10	310	250	1	031553101000	**10,003**
10	360	300	1	031553601000	**12,907**
10	460	400	1	031554601000	**14,790**
10	610	550	1	031556101000	**20,980**
10	1000	950	1	0315510001000	**34,375**
11	160	100	1	031551601100	**5,195**
11	210	150	1	031552101100	**7,340**
11	260	200	1	031552601100	**7,880**
12	160	100	1	031551601200	**4,930**
12	210	150	1	031552101200	**6,789**
12	260	200	1	031552601200	**7,880**
12	310	250	1	031553101200	**11,840**
12	460	400	1	031554601200	**15,475**
12	600	550	1	031556001200	**22,431**

Ø mm	L	l	pcs.	cod.	€ cad/each
12	1000	950	1	0315510001200	**38,889**
13	160	100	1	031551601300	**6,813**
13	210	150	1	031552101300	**9,968**
13	260	200	1	031552601300	**10,231**
13	460	400	1	031554601300	**15,846**
14	160	100	1	031551601400	**6,873**
14	210	150	1	031552101400	**7,989**
14	260	200	1	031552601400	**9,093**
14	310	250	1	031553101400	**12,139**
14	460	400	1	031554601400	**15,846**
14	600	550	1	031556001400	**24,530**
14	1000	950	1	0315510001400	**46,654**
15	160	100	1	031551601500	**8,432**
15	260	200	1	031552601500	**11,312**
16	160	100	1	031551601600	**9,213**
16	210	150	1	031552101600	**10,231**
16	260	200	1	031552601600	**13,278**
16	310	250	1	031553101600	**15,630**
16	460	400	1	031554601600	**18,088**
16	600	550	1	031556001600	**32,784**
16	1000	950	1	0315510001600	**56,911**
18	210	150	1	031552101800	**12,583**
18	260	200	1	031552601800	**15,054**
18	310	250	1	031553101800	**16,793**
18	460	400	1	031554601800	**20,453**
18	600	550	1	031556001800	**33,562**
18	1000	950	1	0315510001800	**61,833**
20	200	150	1	031552002000	**14,166**
20	310	250	1	031553102000	**19,851**
20	460	400	1	031554602000	**26,067**
20	600	550	1	031556002000	**41,443**
20	1000	950	1	0315510002000	**68,370**
22	250	200	1	031552502200	**18,881**
22	460	400	1	031554602200	**29,580**
22	600	550	1	031556002200	**44,586**
22	1000	950	1	0315510002200	**82,172**
24	260	200	1	031552602400	**22,299**
24	460	400	1	031554602400	**34,282**
25	260	200	1	031552602500	**22,299**
25	460	400	1	031554602500	**35,134**
25	1000	950	1	0315510002500	**92,901**
26	460	400	1	031554602600	**41,443**
28	460	400	1	031554602800	**50,884**
30	460	400	1	031554603000	**61,883**



L ≥ 300 mm



Taglio a rotopercussione, su martelli con attacco SDS-PLUS, nel muro, cemento, calcestruzzo, pietre.

Rotary percussion cut, with SDS plus hammers, in masonry, cement, reinforced concrete, natural and artificial stone.

ASSORTIMENTI PUNTE PER TRAPANI A MARTELLO SDS-PLUS
Hammer drills sets



Art. 03165203
€ 24,219

5 pcs
Ø 5 - 6 x 110 mm
Ø 8 - 10 - 12 x 160 mm



Art. 03165401
€ 35,280

7 pcs
Ø 5 - 6 - 8 x 110 mm
Ø 6 - 8 - 10 - 12 x 160 mm



Art. 03165460
€ 167,774

30 pcs
Ø 6÷14 mm

Composizione
Description

Ø	pcs.
6x160	5
8x160	5
10x160	5
12x160	5
10x210	5
12x210	3
14x210	2



390x150x225

Art. 03165503
€ 502,096

71 pcs
Ø 5÷16 mm

Composizione
Description

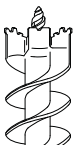
Ø	pcs.
5x110	3
6x110	8
5x160	3
6x160	8
8x160	8
9x160	3
10x160	5
12x160	5
6x210	4
8x210	4
10x210	3
12x210	3
14x210	2
16x210	2
8x260	2
10x260	2
12x260	2
14x260	2
16x260	2

PUNTA DI GRANDE DIAMETRO PER MARTELLI SDS-MAX
Breakthrough drill bit SDS-MAX

03171

SDS-MAX speciale grandi diametri
SDS MAX - big diameters





Integrale
One piece

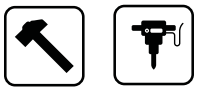
MADE IN GERMANY



Confezione
Packaging



Ø *mm*	L	*l*	pcs.	cod.	€ cad/each
40	550	100	1	031715504000	**410,000**
45	550	100	1	031715504500	**424,484**
45	990	100	1	031719904500	**494,694**
55	550	100	1	031715505500	**478,740**
55	990	100	1	031719905500	**563,851**
65	550	100	1	031715506500	**530,870**
65	990	100	1	031719906500	**604,277**
80	550	100	1	031715508000	**595,768**
80	990	100	1	031719908000	**757,472**



Adatta per la foratura di grandi dimensioni (Ø 45÷80 mm) con martelli SDS-MAX in cemento, muratura, arenaria. Speciale per forature passanti per il passaggio di cavi e tubature.

Useful for drilling into large diameters (Ø 45÷80 mm) with SDS-MAX hammer tools into concrete, masonry, sandstone. Special for breakthrough cuts for cables and pipes.

Applicazioni
Applications



Muro
Masonry



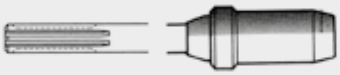
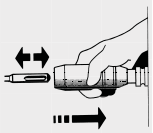
Calcestruzzo armato
Reinforced Concrete



Mattone
Brick

ADATTATORE A CAMBIO RAPIDO SDS-MAX / SDS-PLUS
SDS-MAX / SDS-PLUS adapter



			cod.	L	€ cad/each	
SDS-MAX		SDS-PLUS	03184101	220	**88,211**	

PUNTE PER MARTELLI SDS-MAX SUPERPROFESSIONALI
Super professional hammer drills bits SDS-MAX

03170

SDS-MAX
SDS MAX

SDS max

130°

HVA = 1650

MADE IN GERMANY



Confezione
Packaging



ø mm	L	l	pcs.	cod.	€ cad/each
*12	340	200	1	031703401200	51,609
*12	540	400	1	031705401200	72,451
*12	740	600	1	031707401200	101,448
*14	340	200	1	031703401400	52,562
*14	540	400	1	031705401400	72,451
*14	740	600	1	031707401400	101,448
*14	940	800	1	031709401400	130,899
*15	340	200	1	031703401500	58,311
*15	540	400	1	031705401500	78,605
16	340	200	1	031703401600	65,060
16	540	400	1	031705401600	75,324
16	740	600	1	031707401600	101,448
16	940	800	1	031709401600	133,414
16	1340	1200	1	0317013401600	278,150
18	340	200	1	031703401800	61,326
18	540	400	1	031705401800	83,075
18	740	600	1	031707401800	101,448
18	940	800	1	031709401800	133,414
18	1340	1200	1	0317013401800	299,551
19	520	400	1	031705201900	98,853
20	320	200	1	031703202000	71,797
20	520	400	1	031705202000	89,869
20	720	600	1	031707202000	99,889
20	920	800	1	031709202000	120,823
20	1320	1200	1	0317013202000	313,397
22	320	200	1	031703202200	76,371
22	520	400	1	031705202200	97,910
22	720	600	1	031707202200	103,682
22	920	800	1	031709202200	135,927
22	1320	1200	1	0317013202200	313,397
24	320	200	1	031703202400	88,950
24	520	400	1	031705202400	105,719
25	320	200	1	031703202500	105,719
25	520	400	1	031705202500	114,471

ø mm	L	l	pcs.	cod.	€ cad/each
25	720	600	1	031707202500	119,520
25	920	800	1	031709202500	183,754
25	1320	1200	1	0317013202500	332,273
26	520	400	1	031705202600	154,350
28	320	200	1	031703202800	121,451
28	520	400	1	031705202800	157,829
28	720	600	1	031707202800	185,521
28	920	800	1	031709202800	185,521
28	1320	1200	1	0317013202800	321,136
30	320	200	1	031703203000	137,184
30	520	400	1	031705203000	166,136
32	320	200	1	031703203200	143,481
32	520	400	1	031705203200	176,202
32	720	600	1	031707203200	215,754
32	920	800	1	031709203200	270,598
32	1320	1200	1	0317013203200	367,902
35	370	250	1	031703703500	169,917
35	520	400	1	031705203500	200,115
35	720	600	1	031707203500	240,400
35	920	800	1	031709203500	286,877
35	1320	1200	1	0317013203500	367,902
37	570	450	1	031705703700	264,315
37	920	800	1	031709203700	370,034
38	370	250	1	031703703800	187,536
38	520	400	1	031705203800	230,323
38	720	600	1	031707203800	240,400
40	520	400	1	031705204000	264,315
40	720	600	1	031707204000	270,598
40	920	800	1	031709204000	372,545
40	1320	1200	1	0317013204000	510,999
45	520	400	1	031705204500	329,177
50	570	450	1	031705705000	565,119
52	570	450	1	031705705200	565,119

* 2 taglienti - *2 cutting edges*

Applicazioni
Applications

Muro
Masonry

Calcestruzzo armato
Reinforced Concrete

Pietra
Natural Stones

Caratteristiche
Speciali placchette in M.D. per resistere all'urto sulla nuova generazione dei martelli pesanti da 5 Kg ed oltre. Testa più snella ma compatta per la geometria dei taglienti, facile penetrazione nel cemento. Elica "vario flute", per una più rapida evacuazione dei materiali.
Risultati: + 30% di efficienza nella foratura, maggiore durata dell'utensile, più resistenza agli impatti, minori vibrazioni, fori più profondi e precisi.

Features
Special cutting edges for a quick penetration into the hardest concrete. Large flute for a fast removal, strong reinforced web for a smooth cutting (no breakage, no vibrations).

Super PRO

4 taglienti
4 cutting edges

2 eliche ampie
nuovo disegno dei denti
2 wide flutes
new teeth design

Taglio ad altissimo rendimento, su martelli SDS-MAX, nel muro, cemento, calcestruzzo, pietre, grazie alla placchetta estremamente aggressiva. L'accurata geometria della testa favorisce il centraggio e la perfetta circolarità del foro. La placchetta snella, con taglienti laterali inclinati e gli ampi canali di rimozione dei detriti consentono una velocità di foratura elevatissima, mantenendo un basso tenore di vibrazioni sul martello. Per fori superiori a 400 mm, utilizzare un preforo di 150÷200 mm dello stesso diametro.

Superprofessional cut for hammer drills with SDS-MAX chucking in concrete, masonry and natural stone.Smooth running, accurate hole, reduced vibrations due to its high quality.

PUNTE "DUST FREE" CON SISTEMA DI ASPIRAZIONE DELLA POLVERE
Special drill bits with dust suction system

03172 SDS PLUS

Con aspirazione polveri
With dust suction system

SDS max

MADE IN GERMANY



Confezione
Packaging



Ø mm	L	l	pcs.	cod.	€ cad/each
12	330	200	1	031723301200	**129,031**
14	360	240	1	031723601400	**136,381**
16	360	240	1	031723601600	**143,731**
18	360	240	1	031723601800	**172,320**

Applicazioni
Applications

- Muro *Masonry*
- Calcestruzzo armato *Reinforced Concrete*
- Pietra *Natural Stones*



Compatibili con qualsiasi aspiratore

la polvere viene incanalata nei fori e raccolta in un aspiratore collegato mediante l'adattatore in dotazione.

Compatible with any vacuum

dust is channeled into the holes and collected in a vacuum cleaner connected via the adapter provided.

Caratteristiche

- Ideale per effettuare fori nel cemento armato per i quali sia previsto l'inserimento di ancorante chimico, evita la lunga e laboriosa procedura di pulizia del foro garantendo un risultato ottimale (Avvertenza: per la sistemazione di tasselli, attenersi comunque sempre alle indicazioni del produttore dei tasselli stessi)
- Riduce la dispersione di polveri nell'ambiente di lavoro
- Permette una foratura più veloce ed efficiente grazie all'immediata rimozione del materiale di scarto che nelle punte tradizionali si interpone tra i taglienti e la superficie da forare
- Compatibile con qualsiasi aspiratore reperibile sul mercato (si raccomanda l'utilizzo di aspiratori in classe M per una più efficace riduzione delle polveri nell'ambiente di lavoro)
- La speciale forma della testa a quattro taglienti (per diametri ≤ 28mm) o a 2 taglienti con grandi fori di aspirazione (per diametri ≥ 28mm) evita l'inceppamento della punta anche nei lavori più gravosi di foratura del cemento armato.
- La speciale forma del gambo delle punte con diametro > 28 agevola la centratura del foro e ne migliora la maneggevolezza.

Features

- *Ideal to work in to reinforced concrete for which the insertion of a chemical anchor is foreseen, this technology avoids the long and laborious cleaning procedure of the hole guaranteeing an optimal and faster result. (Warning: for the installation of dowels, always follow the manufacturer's instructions dowels themselves).*
- *It reduces the dispersion of dust in the working environment.*
- *It allows a faster and more efficient drilling due to the immediate removal of the debris which normally interposes between the cutting edges of the drill and the surface to be worked.*
- *Compatible with any vacuum cleaner available on the market (the use of class M vacuum cleaners is recommended for a more effective reduction of dust in the workplace)*
- *The head with 4 cutting edges (2 cutting edges for measures ≤ 28mm) avoids the jamming of the tip even in the most difficult jobs of drilling reinforced concrete.*
- *The special shape of the shank of the drills with a diameter> 28 facilitates the centering of the hole and improves its handling.*

PUNTE "DUST FREE" CON SISTEMA DI ASPIRAZIONE DELLA POLVERE
Special drill bits with dust suction system

03172 SDS MAX

Con aspirazione polveri
With dust suction system

SDS max

MADE IN GERMANY



Confezione
Packaging



Ø mm	L	l	pcs.	cod.	€ cad/each
16	600	400	1	031726001600	**300,539**
18	600	400	1	031726001800	**312,781**
20	600	400	1	031726002000	**325,035**
22	600	400	1	031726002200	**329,939**
24	600	400	1	031726002400	**351,166**
25	600	400	1	031726002500	**339,735**
28	600	400	1	031726002800	**380,500**
28	900	700	1	031729002800	**565,139**
30	600	400	1	031726003000	**400,525**
30	900	700	1	031729003000	**586,366**
32	600	400	1	031726003200	**410,350**
32	900	700	1	031729003200	**615,766**
35	600	400	1	031726003500	**430,500**
35	900	700	1	031729003500	**632,100**

Applicazioni
Applications

Muro
Masonry

Calcestruzzo armato
Reinforced Concrete

Pietra
Natural Stones



Compatibili con qualsiasi aspiratore

la polvere viene incanalata nei fori e raccolta in un aspiratore collegato mediante l'adattatore in dotazione.

Compatible with any vacuum

dust is channeled into the holes and collected in a vacuum cleaner connected via the adapter provided.

ADATTATORI PER PUNTE "DUST FREE"
"DUST FREE" Connector to the dust aspirator



SDS PLUS

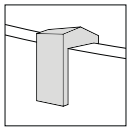


SDS MAX

Attacco *Attachment*	cod.	€ cad/each
SDS PLUS	03172ADATTSDS	**26,131**
SDS MAX	03172ADATTMAX	**27,766**

21120

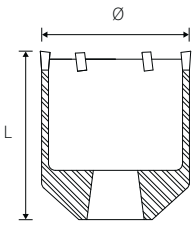
Attacco conico - Uso intensivo
Taper chucking - Intensive use





Confezione
Packaging





Attacco conico 1:8
1:8 taper attachment

Ø corona *core bit*	L	Z n. denti *tips*	pcs.	cod.	€ cad/each
35	100	4	1	2112003500	**54,775**
40	100	5	1	2112004000	**61,549**
45	100	5	1	2112004500	**72,135**
50	100	6	1	2112005000	**84,074**
60	100	6	1	2112006000	**86,226**
66	100	7	1	2112006600	**101,515**
70	100	8	1	2112007000	**112,995**
80	100	8	1	2112008000	**126,897**
90	100	8	1	2112009000	**145,024**
100	100	10	1	2112010000	**170,404**
110	100	12	1	2112011000	**187,330**
125	100	12	1	2112012500	**216,334**
130	100	12	1	2112013000	**267,086**
150	100	14	1	2112015000	**292,469**

Applicazioni
Applications

Muro
Mansonry

Calcestruzzo
Concrete

Pietre
Stones

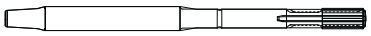
Grandi rendimenti nel calcestruzzo, muro, pietre calcaree.

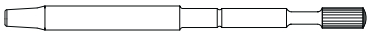
High performances in masonry- concrete, sand-lime brick, natural stone.

Uso rotopercussione su trapani pesanti > 45 N e con potenza > 900W (fino a 1500W)

Hammer drill use > 45 N and electrical power > 900W

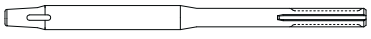
Asta porta corona senza asola
Shank without slot

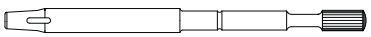
SDS Max	cod.	L *mm*	€ cad/each
	21130211	250	**61,267**
	21130220	450	**67,103**
	21130225	600	**81,325**

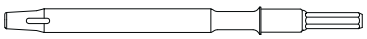
Millerighe Ø 19,3 mm *Large spline shank*	cod.	L *mm*	€ cad/each
	21130235	250	**57,040**
	21130245	600	**77,507**

HEX SW 13	cod.	L *mm*	€ cad/each
	21130255	250	**57,040**
	21130260	450	**61,579**
	21130265	600	**77,507**

Asta porta corona con asola
Shank with slot

SDS Max	cod.	L *mm*	€ cad/each
	21130011	250	**61,267**
	21130020	450	**67,103**
	21130025	600	**81,325**

Millerighe Ø 19,3 mm *Large spline shank*	cod.	L *mm*	€ cad/each
	21130035	250	**57,040**
	21130040	450	**61,579**
	21130045	600	**77,507**

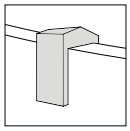
HEX SW 13	cod.	L *mm*	€ cad/each
	21130055	250	**57,040**
	21130060	450	**61,579**
	21130065	600	**77,507**

Punta pilota *Pilot drill*	cod.	Ø *mm*	€ cad/each
	21130110	12x135	**11,664**

Estrattore per punte pilota *Drill drift*	cod.	€ cad/each
	281580102	**8,540**

21122

Attacco filettato con molla - Uso intensivo
With spring thread - Intensive use





Confezione
Packaging



Ø corona *core bit*	L *mm*	Z n. denti *tips*	pcs.	cod.	€ cad/each
40	100	5	1	2112204000	**61,612**
50	100	6	1	2112205000	**84,723**
60	100	6	1	2112206000	**102,303**
66	100	7	1	2112206600	**120,906**
70	100	8	1	2112207000	**159,278**
80	100	8	1	2112208000	**162,760**
90	100	8	1	2112209000	**175,553**
100	100	10	1	2112210000	**191,825**
110	100	12	1	2112211000	**202,286**
125	100	12	1	2112212500	**249,955**
150	100	14	1	2112215000	**309,247**



Asta porta corona
Shank

SDS Max	Con molla *With spring*	cod.	L *mm*	€ cad/each
		21130300	250	**78,323**
		21130305	450	**100,867**
		21130310	600	**136,468**

Molla di accoppiamento *Coupling spring*	cod.	€ cad/each
	21130316	**1,105**

Punta pilota *Pilot drill*	cod.	ØxL *mm*	€ cad/each
	21130315	12x135	**9,993**

Estrattore per punte pilota *Drill drift*	cod.	ØxL *mm*	€ cad/each
	21130317	9,5x100	**4,745**

Espositore corone perforatrici per edilizia con filetto a molla
Hammer core bits with spring thread set



Art. 21116117
€ 1.513,268

29 pcs
Ø 40÷100

Composizione *Description*	ØxL *mm*
	Ø 40-50-60-66 80-90-100 (1x)
	21130300 (3x) 21130305 (3x)
	21130315 (6x)
	21130316 (10x)

Applicazioni
Applications


Muro
Mansonry


Calcestruzzo
Concrete


Pietre
Stones

Uso rotopercussione su trapani pesanti > 45 N e con potenza > 900W (fino a 1500W)

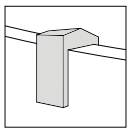
Hammer drill use > 45 N and electrical power > 900W

Grandi rendimenti nel calcestruzzo, muro, pietre calcaree. Corona sempre smontabile grazie alla molla di accoppiamento.

High performances in masonry- concrete, sand-lime brick, natural stone. Easy removable

21110

Attacco filettato M16
M16 Threaded connection

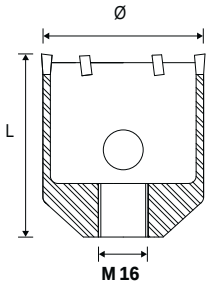


Uso rotopercussione su trapani e piccoli martelli sino 40 N
Rotary percussion use



Confezione
Packaging





Ø fresa *hole cutter*	L	Z n. denti *tips*	pcs.	cod.	€ cad/each
25	75	4	1	2111002500	**27,040**
30	75	4	1	2111003000	**30,788**
35	75	4	1	2111003500	**36,885**
40	75	4	1	2111004000	**40,487**
45	75	4	1	2111004500	**42,987**
50	75	6	1	2111005000	**45,410**
65	75	6	1	2111006500	**56,444**
80	75	8	1	2111008000	**82,855**
90	75	8	1	2111009000	**88,455**
100	75	8	1	2111010000	**107,155**
112	75	8	1	2111011200	**123,341**
125	80	10	1	2111012500	**153,255**
150	80	12	1	2111015000	**206,826**

Ø ≤ 50 mm 600W
Ø > 50 mm 800W (3J)
F ≤ 40 N



Foratura a rotopercussione su trapani e piccoli martelli nel calcestruzzo, cemento, pietre.
Massima profondità di foratura 60 mm.

Use with hammer drills up to 40 N in masonry and concrete (60 mm drill depth).

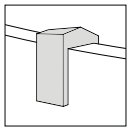
Applicazioni
Applications



Muro
Mansonry

21111

Attacco filettato M22
M22 Threaded connection

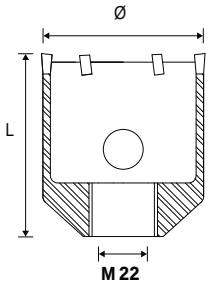


Uso rotopercussione su trapani e piccoli martelli sino 40 N
Rotary percussion use



Confezione
Packaging





Ø fresa *hole cutter*	L	Z n. denti *tips*	pcs.	cod.	€ cad/each
50	75	6	1	2111105000	**44,048**
55	75	6	1	2111105500	**50,599**
60	75	6	1	2111106000	**52,211**
65	75	6	1	2111106500	**54,750**
68	75	6	1	2111106800	**65,267**
80	75	8	1	2111108000	**80,370**
90	75	8	1	2111109000	**85,802**
100	75	8	1	2111110000	**103,940**
112	75	8	1	2111111200	**119,641**
125	80	10	1	2111112500	**148,658**
150	80	12	1	2111115000	**200,621**

Ø ≥ 50 mm 800W (3J)
F ≤ 40 N



Foratura a rotopercussione su trapani e piccoli martelli nel calcestruzzo, cemento, pietre.
Massima profondità di foratura 60 mm.

Use with hammer drills up to 40 N in masonry and concrete (60 mm drill depth).

Applicazioni
Applications



Muro
Mansonry

GAMBI PER FRESE PERFORATRICI A TAZZA “IMPACT”
Chucking shanks for “Impact” core bits

Gambo esagonale
Hex. shank



cod.	Attacco filettato *Thread attachment*	Lunghezza tot. *Overall length*	€ cad/each
21115501	M 16 x 2	100 mm	**14,009**
21115502	M 16 x 2	220 mm	**20,689**
21115503	M 16 x 2	370 mm	**31,817**
21115521	M 22 x 2,5	100 mm	**18,837**
21115522	M 22 x 2,5	220 mm	**27,993**
21115523	M 22 x 2,5	370 mm	**39,636**

Gambo SDS PLUS
SDS PLUS shank



cod.	Attacco filettato *Thread attachment*	Lunghezza tot. *Overall length*	€ cad/each
21115504	M 16 x 2	100 mm	**18,837**
21115505	M 16 x 2	220 mm	**27,993**
21115507	M 16 x 2	370 mm	**39,636**
21115509	M 16 x 2	460 mm	**62,309**
21115524	M 22 x 2,5	100 mm	**18,837**
21115525	M 22 x 2,5	220 mm	**27,993**
21115527	M 22 x 2,5	370 mm	**39,636**
21115529	M 22 x 2,5	460 mm	**62,309**

Gambo SDS MAX*
*SDS MAX shank**



cod.	Attacco filettato *Thread attachment*	Lunghezza tot. *Overall length*	€ cad/each
21115520	M 22 x 2,5	370 mm	**74,467**

*** Usare solo per materiali da costruzione leggeri come arenaria, mattoni forati. Non usare per cemento armato, calcestruzzo e pietre.**

* *Use with light building materials only.*

Punta pilota *Pilot drill*	cod.	ØxL *mm*	€ cad/each
 7,25 mm	**21115506**	8 x 120	**5,074**

ESPOSITORE FRESE “IMPACT” PER EDILIZIA
Masonry core bits set



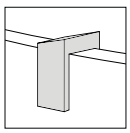
Art. 21116112
€ 718,029

24 pcs
Ø 30 ÷ 100 mm

cod.	Attacco filettato *Thread attachment*							
21110	M 16		Ø	30	35	40		
			pcs.	1	1	1		
21111	M 22		Ø	50	65	80	90	100
			pcs.	1	1	1	1	1
21115501	(M 16)	 HEX 12						L = 100 mm N° 1 pc
21115502	(M 16)							L = 220 mm N° 1 pc
21115521	(M 22)							L = 100 mm N° 1 pc
21115522	(M 22)							L = 220 mm N° 1 pc
21115504	(M 16)	 SDS PLUS						L = 100 mm N° 1 pc
21115505	(M 16)							L = 220 mm N° 1 pc
21115524	(M 22)							L = 100 mm N° 1 pc
21115525	(M 22)							L = 220 mm N° 1 pc
21115506								Ø = 8 mm N° 8 pcs

FRESE PERFORATRICI
A TAZZA CON TAGLIENTI IN METALLO DURO PER EDILIZIA
Carbide tipped hole cutters for masonry, rotation only

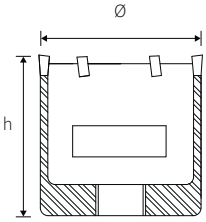
21015 **MD**





Confezione
Packaging





Ø fresa *hole cutter*	h altezza tazza *height cup*	n. denti *n. tips*	d gambo *shank*	pcs.	cod.	€ cad/each
16	40	2	10	1	2101501600	**22,467**
22	40	3	10	1	2101502200	**23,919**
25	40	3	10	1	2101502500	**31,439**
27	40	3	10	1	2101502700	**32,543**
30	40	4	10	1	2101503000	**33,336**
35	40	4	10	1	2101503500	**36,238**
38	40	5	10	1	2101503800	**39,860**
40	40	5	10	1	2101504000	**42,750**
45	40	5	10	1	2101504500	**47,105**
50	40	6	10	1	2101505000	**50,728**
55	40	6	12	1	2101505500	**61,595**
60	40	7	12	1	2101506000	**67,401**
65	40	7	12	1	2101506500	**76,097**
70	40	8	12	1	2101507000	**81,148**
80	40	9	12	1	2101508000	**100,004**
85	40	10	12	1	2101508500	**119,100**
100	40	11	12	1	2101510000	**149,460**
125	40	12	12	1	2101512500	**192,667**
150	40	15	12	1	2101515000	**287,248**

Utilizzo a rotazione
Rotary use only

Applicazioni
Applications

Muro
Mansonry

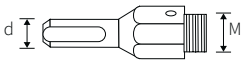
Calcestruzzo
Concrete

Ceramica
Ceramics

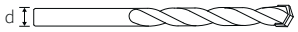
Forano a sola rotazione calcestruzzo leggero, muro, piastrelle, ceramica, laminati plastici. Adatti per fori precisi a pavimento di porte blindate, fori per condotte, scatole di derivazione, etc...

Rotary use in masonry, tiles, light construction materials.

Gambo *Arbor*	cod.	Per frese *Fit hole cutters*	d	M	€ cad/each
3 Pianetti / *3 Flats*					
	21020100	Ø 16 ÷ 35	10	12x1,25	**5,841**
	21020101	Ø 38 ÷ 150	12	16x1,5	**17,210**



Punta pilota *Pilot drill*	cod.	Per frese *Fit hole cutters*	d	Ø *mm*	€ cad/each
	21020110	Ø 16 ÷ 50	5,85	6	**4,469**
	21020111	Ø 55 ÷ 150	7,25	8	**5,880**



Prolunga 400 mm *Extension 400 mm*	cod.	Per frese *Fit hole cutters*	d	M	€ cad/each
3 Pianetti / *3 Flats*					
	21020120	Ø 16 ÷ 50	12	12x1,25	**33,340**
	21020121	Ø 55 ÷ 150	12	16x1,5	**49,781**





Art. 21030110
€ 590,227

12 pcs
Ø 22 - 25 - 27 - 30
35 - 38 - 40 - 45
50 - 55 - 60 - 65



Set frese a tazza per impiantisti, idraulici, etc.
Hole cutters set for journeymen and plumbers.

Art. 21030300
€ 331,405

8 pcs
Ø 16 - 22 - 25 - 27
30 - 35 - 40 - 50

Art. 21030301
€ 225,640

6 pcs
Ø 16 - 22 - 25 - 27
30 - 35

FRESE A TAZZA CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI PER MATERIALI EDILI DURI, GRES, PIASTRELLE, GRANITO, ETC.

Carbide grit hole saws, high quality

21105 — MD

Per materiali edili duri
For hard building materials

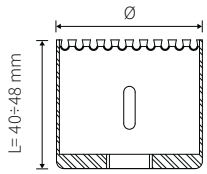


Confezione
Packaging

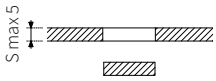




Inserti in carburo di tungsteno
Carbide grit



Spessore lavorabile
Material tickness workable





Art. 21135
Self
Disponibile su richiesta
On demand

Ø *mm*	Ø pollici / *inch*	d *filetto / thread*	pcs.	cod.	€ cad/each
16	5/8	UNF 1/2 x 20	1	2110501600	**17,873**
19	3/4		1	2110501900	**17,873**
20	-		1	2110502000	**18,292**
22	7/8		1	2110502200	**18,292**
25	1”		1	2110502500	**18,292**
29	1-1/8		1	2110502900	**19,024**
32	1-1/4	UNF 5/8 x 18	1	2110503200	**20,140**
35	1-3/8		1	2110503500	**20,800**
38	1-1/2		1	2110503800	**22,263**
44	1-3/4		1	2110504400	**24,373**
48	1-7/8		1	2110504800	**24,373**
51	2”		1	2110505100	**24,373**
54	2-1/8		1	2110505400	**24,373**
57	2-1/4		1	2110505700	**24,735**
60	2-3/8		1	2110506000	**25,863**
64	2-1/2		1	2110506400	**25,863**
70	2-3/4		1	2110507000	**30,876**
76	3”		1	2110507600	**31,942**
83	3-1/4		1	2110508300	**32,988**
86	3-3/8		1	2110508600	**34,007**
95	3-3/4		1	2110509500	**34,380**
102	4”		1	2110510200	**34,380**
114	4-1/2		1	2110511400	**40,687**

Utilizzo a rotazione
Rotary use only

R ≤ 1200 N/mm²

Applicazioni
Applications

- Piastrelle, Mattoni durissimi — *Tiles, Hard burnt brick*
- Pietre naturali, Marmo — *Stones, Marble*
- Ceramica — *Ceramics*
- Fibra di vetro, Laminati plastici, Fiberglass

Per frese gambi / alberi
Fit hole cutters



Ø	cod.	€ cad/each
Ø 16 ÷ 29	210706519	**13,338**
Ø 32 ÷ 114	210706546	**23,339**

Punta pilota con placchetta in MD
Pilot drill

6,3 mm 

Ø	cod.	€ cad/each
Ø 7x80	21020112	**13,116**



Art. 21107301
€ 104,976

6 pcs
Art. 21105
Ø 16 - 20 - 22 - 25 - 32 - 35 mm (1x)

1 pcs
Art. 210706519
Ø 16÷29 N. 1 pc

1 pcs
Art. 210706546
Ø 32÷114 N. 1 pc

FRESA A TAZZA MULTIPLA PER EDILIZIA IN CARBURO DI TUNGSTENO IN GRANI

Multiple sizes carbide grit hole saw

21108



Qualità standard
Standard quality

Applicazioni
Applications

- Mattoni — *brick*

Confezione
Packaging



Ø *mm*	d	pcs.	cod.	€ cad/each
33-43-53-67-83	10	1	21108100	**53,309**

h = 60mm

FRESA A TAZZA A CORONA CONTINUA
PER IL TAGLIO DEL GRES PORCELLANATO E DEI MATERIALI EDILI DURISSIMI
Diamond drill bit and core drills with continuous edge for sandware and very strong building materials

21106

Attacco M14 per smerigliatrici angolari
M14 connection for angle grinders

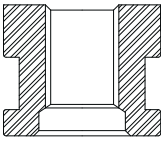


Confezione
Packaging





Matrice metallica altofondente brasata che trattiene i diamanti a grana medio-fine
The high-melting brazed bond keeps medium-fine grain diamonds

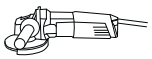


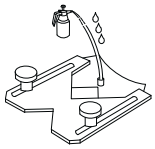
Attacco M14
speciale per smerigliatrici angolari
M14 shank
M14 shank to fit angular grinding machine

Ø mm	pollici inches	L	pcs.	cod.	€ cad/each
*6	15/64	62	1	211060600	40,868
*8	5/16	62	1	211060800	41,574
*10	25/64	62	1	211061000	41,574
*12	15/32	62	1	211061200	43,516
*14	35/64	62	1	211061400	46,685
*16	5/8	62	1	211061600	48,472
*18	23/32	62	1	211061800	49,886
20	25/32	60	1	211062000	49,904
22	7/8	60	1	211062200	51,817
25	1"	60	1	211062500	56,481
28	1-1/16	60	1	211062800	62,292
30	1-3/16	60	1	211063000	67,042
32	1-1/4	60	1	211063200	71,585
35	1-3/8	60	1	211063500	78,338
40	1-9/16	60	1	211064000	89,635
45	1-49/64	60	1	211064500	100,684
50	2"	60	1	211065000	108,172
55	2-11/64	60	1	211065500	122,787
60	2-3/8	60	1	211066000	133,837
65	2-9/16	60	1	211066500	144,887
67	2-5/8	60	1	211066700	149,798
70	2-3/4	60	1	211067000	157,167
80	3-5/32	60	1	211068000	178,040
90	3-9/16	60	1	211069000	194,852
100	4"	60	1	2110610000	228,077

* Con cera vegetale all'interno / *With internal coolant.*

PRCD





Massima profondità di foratura 10 mm.
Velocità di rotazione consigliata 10.000-13.000 giri/min.
Maximum drilling depth 10 mm.
Recommended rotational speed 10,000-13,000 rpm.









Art. 21103315
€ 232,142
5 pcs
Ø 6 - 8 - 10
12 - 14 mm



Art. 21103310
€ 627,479
6 pcs
Ø 22 - 35 - 40
45 - 50 - 67 mm

Applicazioni
Applications



Grès porcellanato
Porcelain stoneware



Grès smaltato
Glazed stoneware



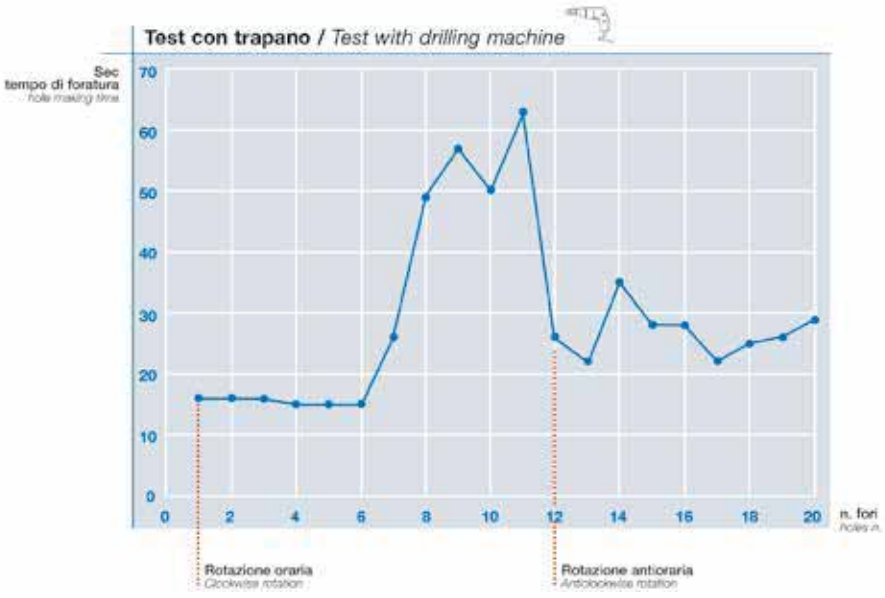
Grès
Stoneware



Marmo
Marble



Piastrella standard
Standard tile



Prestazioni di una fresa diamantata di Ø 6 mm a corona continua nella foratura di una piastrella in gres porcellanato con raffreddamento ad acqua: invertendo periodicamente il senso di rotazione della fresa da orario ad antiorario si ravvivano i diamanti e la fresa continua a lavorare per un ciclo di vita utile più lungo.
Nel grafico si mostra come, all'inversione del senso di rotazione, la fresa completa il foro con un tempo comparabile ai primi fori effettuati quando l'utensile era nuovo.

Performances of Ø 6 mm diamond core bit with continuous edge when water cooled cutting into sandware: if you cyclically change from clockwise to anti-clockwise rotation you can revive the diamonds thus assuring a longer tool life.
Here below the graphics that shows you that, starting the anti-clockwise rotation, the tool can complete the hole briefly, just as it were new.

PUNTA DIAMANTATA A CORONA CONTINUA
PER IL TAGLIO A SECCO E UMIDO DEL GRESPORCELLANATO E DI TUTTE LE PIASTRELLE
Diamond drill bit with continuous edge for dry cutting of sandware and very hard building materials

Keramaster® Plus

03122

Con cera vegetale refrigerante
With internal cooling system



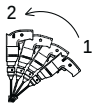
Confezione
Packaging



Ø mm	d ⬡	L	pcs.	cod.	€ cad/each
5	9,5	70	1	031220500	**43,128**
6	9,5	70	1	031220600	**43,128**
8	9,5	80	1	031220800	**43,128**
10	9,5	80	1	031221000	**43,128**
12	9,5	80	1	031221200	**47,921**
14	12,5	80	1	031221400	**59,246**
16	12,5	80	1	031221600	**65,826**
18	12,5	80	1	031221800	**73,508**
20	12,5	80	1	031222000	**81,188**
22	12,5	80	1	031222200	**88,867**
25	12,5	80	1	031222500	**100,936**

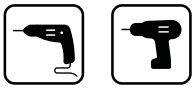
Movimento circolare
Circular movement





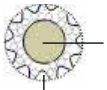
PRCD

Utilizzando trapani elettrici adottare il sistema di sicurezza PRCD
PRCD safety system
Système de sécurité PRCD
Despositivo de seguridad PRCD



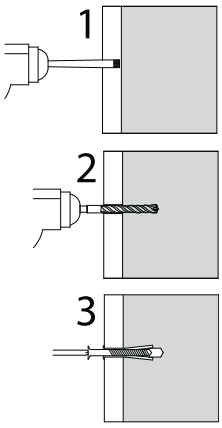
A secco
(refrigerante vegetale)
Dry cutting
(vegetable refrigerant)





Refrigerante vegetale
Internal cooling system

Matrice metallica altofondente brasata che trattiene i diamanti a grana medio-fine
The high-melting brazed bond keeps
medium-fine grain diamonds



Foratura a secco a sola rotazione. Funzionamento ottimale su pareti verticali (ottimizzato il sistema di refrigerazione interna). Si consiglia di non asportare la carota, che funge da tappo-dosatore per il refrigerante. **L'utilizzo con refrigerazione ad acqua allunga la vita utile dell'utensile.**

Dry cutting, rotation use only. *Best performances on walls to better fit the internal cooling system. Do not remove the deposits: they work as a plug to stop the lubricant.* ***Water cooling extends the tool life cycle.***

Istruzioni d'uso: Iniziare il taglio inclinando la fresa di 30° per agevolare la centratura (oppure utilizzare l'apposita guida). Portarsi gradualmente in posizione verticale. Usare una velocità di taglio di 1000÷3000 giri/min in funzione del diametro decrescente della fresa. Durante il taglio applicare un lieve movimento circolare per agevolare l'evacuazione dei detriti. Invertendo periodicamente il senso di rotazione della fresa, si ravvivano i diamanti e si allunga la vita utile dell'utensile. Utilizzando trapani elettrici e raffreddando ad acqua, dotarsi di dispositivo PRCD.

Nel caso si voglia inserire un tassello[3], terminato il taglio nel gres[1], continuare con una punta per muro tradizionale a rotopercussione[2].

Use tips: *To achieve an easy centering, please start the cut at 30° (or use the proper guide) and then go on vertically. Use 1000÷3000 rpm as cutting speed, depending on the decreasing tool diameter. Please use a circular movement during cutting to better evacuate the deposits. For longer tool life, please use alternatively right and left hand rotation. When water cooling, always use PRCD safety system.*

Applicazioni
Applications

- Grès porcellanato — *Porcelain stoneware*
- Grès smaltato — *Glazed stoneware*
- Grès — *Stoneware*
- Marmo — *Marble*
- Piastrella standard — *Standard tile*

Diametro fresa *Cutter diameter*	5÷7	8÷10	12÷14
Velocità giri/min. *RPM speed*	3000	2000	1500

547


03121001


03121002


03121005



Art. 03120300
€ 938,134

15 pcs
Ø 5÷25 mm

Ø	5	6	8	10	12	14	16	18	20	22	25
pcs	2	2	2	2	1	1	1	1	1	1	1

Art. 03120301
€ 667,205

15 pcs
Ø 5÷25 mm

Ø	5	6	8	10	12	14	16	20
pcs	1	2	2	2	1	1	1	1



Art. 03120210
€ 128,487

3 pcs
Ø 6 - 8 -10 mm

PUNTA DIAMANTATA A CORONA CONTINUA
PER IL TAGLIO A SECCO E UMIDO DEL GRESPORCELLANATO E DI TUTTE LE PIASTRELLE

Rotary percussion drill bits "max 4" with 4 cutting edges and 4 flutes for cutting concrete and building materials

03117



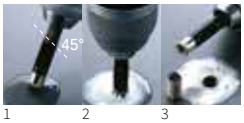
Confezione
Packaging

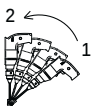


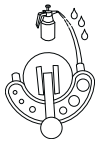


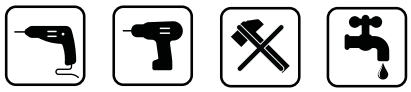
Matrice metallica altofondente brasata che trattiene i diamanti a grana medio-fine
The high-melting brazed bond keeps
medium-fine grain diamonds

Ø mm	d ⬡	L	pcs.	cod.	€ cad/each
5	9,5	56	1	031170500	**25,058**
6	9,5	56	1	031170600	**25,058**
7	9,5	56	1	031170700	**25,058**
8	9,5	56	1	031170800	**25,058**
10	9,5	56	1	031171000	**27,658**
12	9,5	56	1	031171200	**32,441**
14	9,5	56	1	031171400	**44,390**









Utilizzando trapani elettrici adottare il sistema di sicurezza PRCD
PRCD safety system
Système de sécurité PRCD
Despositivo de seguridad PRCD

FORATURA AD ACQUA
Wet drilling



Art. 03120199
€ 83,896

3 pcs
Ø 6 - 8 - 10 mm

Art. 03120200
€ 108,307

4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03120201
€ 139,448

5 pcs
Ø 5 - 6 - 8 - 10 - 12 mm



230x510x170



Retrodidattica
Back side

Art. 03120101
€ 1.026,182

36 pcs Ø 5÷14
Ø/pcs
5/8 - 6/8 - 7/3 - 8/6
10/5 - 12/3 - 14/3

Art. 03120100
€ 902,654

30 pcs Ø 5÷14
Ø/pcs
5/6 - 6/6 - 7/2 - 8/6
10/5 - 12/3 - 14/2

Diametro fresa *Core drill diameter*	5÷7	8÷10	12÷14	16÷25	28÷35	40÷50	60÷80
Velocità giri/min. *Speed r.p.m.*	3000	2000	1500	1000	600	400	300

Taglio preciso e pulito con trapani e con raffreddamento ad acqua in tutti i materiali edili difficili da lavorare: gres porcellanato, gres smaltato, marmo, granito, ceramica, ardesia, materiali compositi quali poliestere, fibre di vetro, ecc. Nel caso si voglia inserire un tassello, terminato il taglio nel gres, continuare con una punta per muro tradizionale a rotopercussione. Per idraulici, installatori, elettricisti, ecc.

For an accurate and sharp cut with drilling machines of all hard materials: sandware, glazed sandstone, marble, granite, ceramics, slate, composites such as polyester, fiber glass, etc. Ideal for plumbers, journeymen, electricians, etc. Water cooling.

PUNTA DIAMANTATA A CORONA CONTINUA
PER IL TAGLIO A SECCO E UMIDO DEL GRESPORCELLANATO E DI TUTTE LE PIASTRELLE

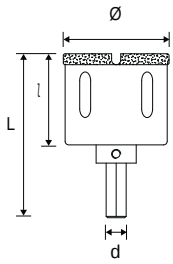
Rotary percussion drill bits "max 4" with 4 cutting edges and 4 flutes for cutting concrete and building materials

21104

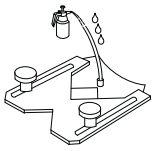


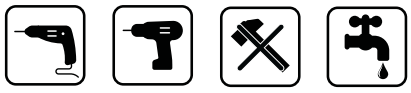
Confezione
Packaging





Ø mm	d ⬡	L	l	pcs.	cod.	€ cad/each
16	12,5	90	50	1	211041600	**59,677**
18	12,5	90	50	1	211041800	**59,677**
20	12,5	90	50	1	211042000	**64,870**
22	12,5	90	50	1	211042200	**71,359**
25	12,5	90	50	1	211042500	**79,792**
28	12,5	90	50	1	211042800	**88,224**
30	12,5	90	50	1	211043000	**94,714**
32	12,5	90	50	1	211043200	**97,305**
35	12,5	90	50	1	211043500	**114,169**
40	12,5	90	50	1	211044000	**128,445**
45	12,5	90	50	1	211044500	**144,013**
50	12,5	90	50	1	211045000	**158,288**
60	12,5	90	50	1	211046000	**186,824**
65	12,5	90	50	1	211046500	**201,100**
67	12,5	90	50	1	211046700	**210,929**
70	12,5	90	50	1	211047000	**223,678**
80	12,5	90	50	1	211048000	**245,205**





Utilizzando trapani elettrici adottare il sistema di sicurezza PRCD
PRCD safety system
Système de sécurité PRCD
Dispositivo de seguridad PRCD

FORATURA AD ACQUA
Wet drilling

Applicazioni
Applications


Grès porcellanato
Porcelain stoneware

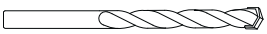

Marmo
Marble


Grès smaltato
Glazed stoneware


Piastrella standard
Standard tile


Grès
Stoneware

Punta pilota con placchetta in MD *Pilot drill*	cod.	Ø mm	€ cad/each
	21020113	Ø 6x100	**4,469**



400x650x320



Art. 21103100
€ 1.054,311

21 pcs Ø 5÷35
Ø 5 - 6 - 7 - 8 - 10 - 12 - 14 (2x)
Ø 16 - 20 - 25 - 28 - 30 - 32 - 35 (1x)

Art. 21103101
€ 2.143,522

29 pcs Ø 5÷80
Ø 5 - 6 - 7 - 8 - 10 - 12 - 14
16 - 18 - 20 - 25 - 30 (2x)
Ø 35 - 50 - 60 - 65 - 80 (1x)

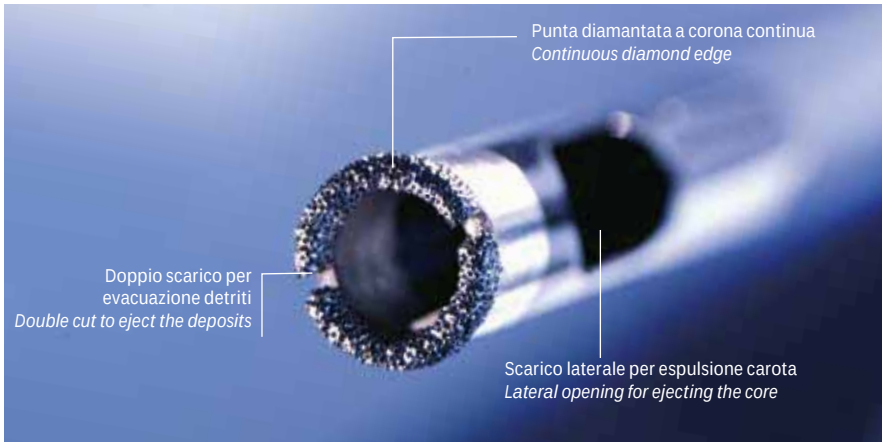


Art. 21103300
€ 535,883

6 pcs
Ø 16 - 22 - 25 - 28
30 -35 mm

Si sconsiglia l'uso della punta pilota come centraggio nel gres porcellanato; la dima a ventosa consente un'agevole centratura e sicurezza di taglio.

We dissuade to use the pilot drill as centering into sandware; the suction guide allows an easy centering with a safe cut.



PUNTA DIAMANTATA A CORONA CONTINUA
PER IL TAGLIO DI PIASTRELLE, GRES E DEI MATERIALI DURI
Diamond drill bit with continuous edge for sandware and strong building materials

03125

Qualità Standard
Standard quality

Matrice metallica elettrodepositata che trattiene diamanti a grana fine.

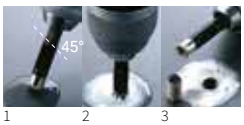
The electroplated bond keeps fine grain diamonds.

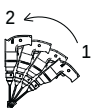


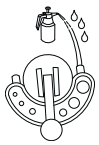
Confezione
Packaging

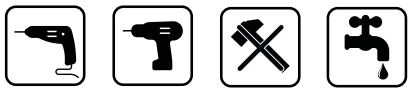


Ø *mm*	d *mm*	L	pcs.	cod.	€ cad/each
5	6	65	1	031250500	**12,413**
6	6	65	1	031250600	**12,413**
8	6	65	1	031250800	**12,413**
10	6	65	1	031251000	**12,413**
12	6	65	1	031251200	**14,894**
14	6	65	1	031251400	**17,377**









Utilizzando trapani elettrici adottare il sistema di sicurezza PRCD
PRCD safety system
Système de sécurité PRCD
Despositivo de seguridad PRCD

FORATURA AD ACQUA
Wet drilling

Applicazioni
Applications


Grès
Stoneware


Marmo
Marble


Piastrella standard
Standard tile

La corona diamantata a spessore sottile garantisce tagli senza sbavature. Questa caratteristica agevola i lavori di foratura su piastrelle dure in posa, dove sia necessario realizzare un foro pulito, senza scheggiare la piastrella.

The thin diamond continuous edge guarantees cuts without smudging. This feature facilitates the drilling work on hard tiles in laying, where it is necessary to make a clean hole, without splintering the tile.

Diametro fresa *Core drill diameter*	5÷7	8÷10	12÷14
Velocità giri/min. *Speed r.p.m.*	3000	2000	1500

DIMA A VENTOSA PER FORARE
Drilling suction cup

03121



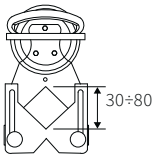
Art. 03121001
€ 39,861

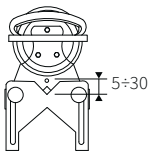
7 fori / *7 holes*
Ø 4 - 5 - 6 - 7
8 - 10 - 12 mm

DIMA A VENTOSA REGOLABILE PER FORARE
Drilling suction cup



Art. 03121002
€ 59,211





BOTTIGLIA PER REFRIGERAZIONE 1L
1L Cooling bottle



Art. 03121005
€ 22,772

03405



Corona Turbo
Turbo continuous rim

Confezione
Packaging



Ø mm	d	cod.	€ cad/each
115	22.2	03405115	**11,992**
230	22.2	03405230	**56,344**

Applicazioni
Applications

Muro *Masonry* · Calcestruzzo *Concrete* · Pietre naturali *Natural stones* · Piastrelle *Tiles*

03400



Corona continua
Continuous rim

Confezione
Packaging



Ø mm	d	cod.	€ cad/each
115	22.2	03400115	**10,306**
230	22.2	03400230	**45,550**

Applicazioni
Applications

Pietre naturali *Natural stones* · Piastrelle *Tiles* · Pietra - Granito *Natural stones granit*

03410



Corona segmentata
Segmented rim

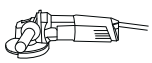
Confezione
Packaging



Ø mm	d	cod.	€ cad/each
115	22.2	03410115	**11,300**
230	22.2	03410230	**55,844**

Applicazioni
Applications

Muro *Masonry* · Calcestruzzo *Concrete* · Pietre naturali *Natural stones* · Pietra - Granito *Natural stones granit*



PRCD

DISCHI DIAMANTATI PER MATERIALI EDILI
Diamond discs for building materials



Art. 03412100
€ 32,361

3 pcs

Composizione
Description

cod. 03405115 TURBO N. 1
cod. 03400115 CONTINUE N. 1
cod. 03410115 SEGMENTED N. 1

DISCHI DIAMANTATI PER GRES PORCELLANATO, CERAMICA E PIASTRELLE IN GENERE
Diamond discs for sandware, tiles and ceramics

03515

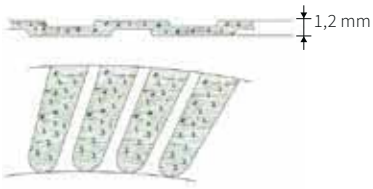
Corona Turbo - Speciale Gres porcellanato
Turbo continuous rim - Special Gres

Ø mm	d	cod.	€ cad/each
115	22.2	03515115	**40,750**

Confezione
Packaging







Applicazioni
Applications

Grès porcellanato
Porcelain stoneware

Grès smaltato
Glazed stoneware

Grès
Stoneware

Marmo
Marble

Piastrella standard
Standard tile

PRCD

SCALPELLI DI QUALITÀ PREMIUM
PER MARTELLI DEMOLITORI SDS-PLUS
Premium quality chisels for SDS-PLUS hammers

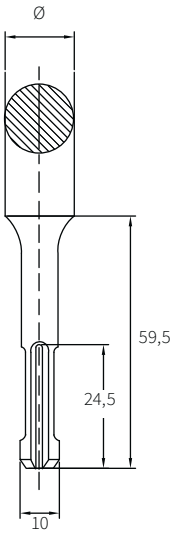
03221

AUTO AFFILANTE
Self-Sharpening

Qualità Premium
Premium performance

SDS plus

MADE IN ITALY





Confezione
Packaging



Confezione
Packaging



Scalpelli a punta *Pointed chisels*	L *mm*	Ø	cod.	€ cad/each
	250	14	0322102250	18,552

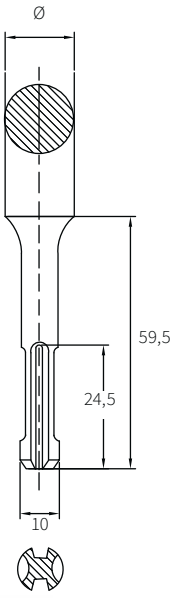
Scalpelli piatti *Flat cold chisels*		L *mm*	Ø	cod.	€ cad/each
	20	250	14	0322106020250	18,552

03220

Alta Qualità
High performance

SDS plus

MADE IN ITALY



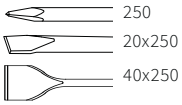


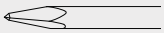


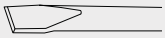
Art. 03281100
€ 41,760

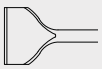
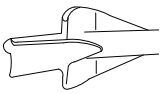
3 pcs

Composizione
Description



Scalpelli a punta *Pointed chisels*	L *mm*	Ø	cod.	€ cad/each
	250	14	0322002250	12,423

Scalpelli piatti *Flat cold chisels*		L *mm*	Ø	cod.	€ cad/each
	20	250	14	0322001020250	12,423

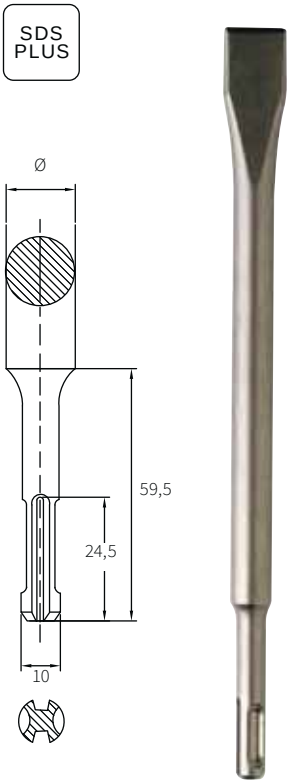
Scalpelli piatti larghi *Spade chisels*		L *mm*	Ø	cod.	€ cad/each
	40	250	14	0322003040250	18,780
25° 	40	260	14	0322003040260	37,796
	22	250	14	0322004022250	25,530
	22	250	16	0322005022250	68,617

SCALPELLI DI QUALITÀ STANDARD
PER MARTELLI DEMOLITORI SDS-PLUS
Standard quality chisels for SDS-PLUS hammers

03222

Qualità Standard
Standard quality

SDS PLUS



Scalpelli a punta *Pointed chisels*	L *mm*	Ø	cod.	€ cad/each
	250	14	0322202250	8,232

Scalpelli piatti *Flat cold chisels*	L *mm*	Ø	cod.	€ cad/each
	20 250	14	0322201020250	8,232

Scalpelli piatti larghi *Spade chisels*	L *mm*	Ø	cod.	€ cad/each
	40 250	14	0322203040250	12,466
25°	75 160	14	032220775160	21,345
25°	40 250	14	032220740250	13,289



Art. 03281120
€ 23,520

3 pcs

Composizione
Description

250
20x250
40x250

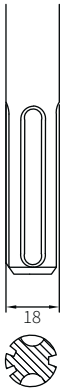
SCALPELLI DI ALTA QUALITÀ
PER MARTELLI DEMOLITORI SDS-MAX
High quality chisels for SDS-MAX hammers

03210

Alta Qualità
High performance

SDS max

MADE IN ITALY







Scalpelli a punta *Pointed chisels*	L *mm*	Ø	cod.	€ cad/each
	280	18	0321002280	**18,289**
	400	18	0321002400	**20,448**
	600	18	0321002600	**28,577**

Scalpelli piatti *Flat cold chisels*	 *mm*	L *mm*	Ø	cod.	€ cad/each
	27	280	18	0321001027280	**18,289**
	27	400	18	0321001027400	**20,448**
	27	600	18	0321001027600	**29,212**

Scalpelli piatti larghi *Spade chisels*	 *mm*	L *mm*	Ø	cod.	€ cad/each
	50	400	18	0321003050400	**49,533**
	80	300	18	0321003080300	**60,964**
	115	350	22	0321003115350	**66,044**
10°	50	300	18	0321003050300	**53,343**
	38	280	18	0321005038280	**72,395**
	38	280	18	0321006038280	**190,512**

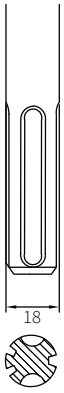
Scalpelli a sgorbia *Grooving chisels*	 *mm*	L *mm*	Ø	cod.	€ cad/each
	26	300	18	0321004026300	**48,263**
	32	300	18	0321004032300	**66,044**
	35	380	23	0321007035380	**120,658**

SCALPELLI DI QUALITÀ STANDARD
PER MARTELLI DEMOLITORI SDS-MAX
Standard quality chisels for SDS-MAX hammers

03212

Qualità Standard
Standard quality

SDS MAX





Scalpelli a punta *Pointed chisels*	L *mm*	Ø	cod.	€ cad/each
	280	18	0321202280	**11,054**
	400	18	0321202400	**13,524**
	600	18	0321202600	**19,169**

Scalpelli piatti *Flat cold chisels*	*mm*	L *mm*	Ø	cod.	€ cad/each
	25	280	18	0321201025280	**11,054**
	25	400	18	0321201025400	**13,524**
	25	600	18	0321201025600	**19,169**

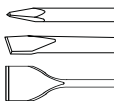
Scalpelli piatti larghi *Spade chisels*	*mm*	L *mm*	Ø	cod.	€ cad/each
	50	400	18	0321203050400	**23,520**
	75	300	18	0321203075300	**29,400**



Art. 03281121
€ 48,451

3 pcs

Composizione
Description







UTENSILI PER TAGLIO DEL LEGNO

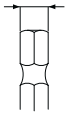
WOODWORKING TOOLS

PUNTE ELICOIDALI PER LEGNO
A 4 TAGLIENTI CON ATTACCO HEX 1/4”
HEX 1/4” shank drill bits for wood with 4 cutting edges

05054 C.V. 1/4 HEX

Alto rendimento - massima velocità
High performance - max speed

1/4” HEX FORM E





Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
10	1/4	65	165	1	050541000	**14,222**
12	1/4	65	165	1	050541200	**14,651**
14	1/4	65	165	1	050541400	**17,648**
16	1/4	65	165	1	050541600	**18,759**
18	1/4	65	165	1	050541800	**20,385**
20	1/4	65	165	1	050542000	**20,988**
22	1/4	65	165	1	050542200	**23,558**
24	1/4	65	165	1	050542400	**26,382**
25	1/4	65	165	1	050542500	**29,039**
26	1/4	65	165	1	050542600	**29,641**
28	1/4	65	165	1	050542800	**31,521**
30	1/4	65	165	1	050543000	**33,750**
32	1/4	65	165	1	050543200	**35,209**

Applicazioni
Applications


Legno
Wood


Multistrato
Multilayer


Truciolato
Chipboard

Per forare a grande rendimento il legno e i suoi derivati.
For drilling wood and its derivatives with high efficiency.



Art. 05055300
€ 161,747
6 pcs
Ø 16 - 18 - 20
22 - 25 - 32 mm

PUNTE ELICOIDALI PER LEGNO
A 2 TAGLIENTI, ALTA QUALITÀ HSS
HSS wood working drills

05200 HSS ~DIN 7487

HSS - per legno duro
HSS - for hard wood


HSS
HRC ≅ 63





Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
3	3	33	61	1	052000300	**1,221**
4	4	43	75	1	052000400	**1,496**
5	5	52	86	1	052000500	**1,773**
6	6	57	93	1	052000600	**2,395**
7	7	69	109	1	052000700	**2,948**
8	8	75	117	1	052000800	**4,056**
9	9	81	125	1	052000900	**4,743**
10	10	87	133	1	052001000	**5,884**
11	10	94	142	1	052001100	**7,314**
12	10	101	151	1	052001200	**9,309**
13	10	101	151	1	052001300	**10,806**
14	10	108	160	1	052001400	**12,911**
15	10	114	169	1	052001500	**15,916**
16	10	120	178	1	052001600	**18,330**

Applicazioni
Applications


Legno duro
Hard wood


Multistrato
Multilayer


Truciolato
Chipboard


GFRP

Per forare legno, derivati, kevlar, fibre aramidiche senza sbavature.
For drilling wood, derivatives, kevlar, aramidic fibers without smudging.



Art. 05010206
€ 17,825
5 pcs
Ø 4 - 5 - 6
8 - 10 mm



Art. 05010207
€ 27,461
8 pcs
Ø 3 - 4 - 5 - 6
7 - 8 - 9 - 10 mm


Art. 05201 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI PER LEGNO CON PUNTA GUIDA A CENTRARE ED ELICHE AD ALTO SCARICO DEI TRUCIOLI. QUALITÀ SUPERPROFESSIONALE, SERIE LUNGA
HSS wood working drills

05210 C.V.

Alte prestazioni - L=245 mm
High performances - L=245 mm

C.V.
HRC = 55



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
6	6	160	245	1	052100600	**22,552**
8	8	160	245	1	052100800	**23,750**
10	10	160	245	1	052101000	**25,433**
12	10	160	245	1	052101200	**26,831**
14	10	160	245	1	052101400	**29,346**
16	10	160	245	1	052101600	**32,437**
18	10	160	245	1	052101800	**37,160**
20	10	160	245	1	052102000	**42,412**
22	13	160	245	1	052102200	**47,833**
24	13	160	245	1	052102400	**54,892**

Forano legno duro e dolce, stratificati, tutti i suoi derivati.
Speciali per mensole a scomparsa e travi in legno.

For soft and tough wood, plywood, non coated chipboards. Special for wood beams.

05212 C.V.

Alte prestazioni - L=400 mm
High performances - L=400 mm

C.V.
HRC = 55



Confezione
Packaging



Ø mm	d	l	L	pcs.	cod.	€ cad/each
6	6	160	400	1	052120600	**28,272**
8	8	160	400	1	052120800	**30,810**
10	10	160	400	1	052121000	**32,649**
12	10	250	400	1	052121200	**36,007**
14	10	250	400	1	052121400	**41,448**
16	10	250	400	1	052121600	**50,215**
18	10	250	400	1	052121800	**59,026**
20	10	250	400	1	052122000	**67,758**
22	13	250	400	1	052122200	**76,292**
24	13	250	400	1	052122400	**85,401**

Forano legno duro e dolce, stratificati, tutti i suoi derivati.
Speciali per mensole a scomparsa e travi in legno.

For soft and tough wood, plywood, non coated chipboards. Special for wood beams.

Applicazioni
Applications

Legno *Wood*
Multistrato *Multilayer*
Truciolato *Chipboard*

PUNTE ELICOIDALI PER LEGNO
A 2 TAGLIENTI CON PUNTA GUIDA A CENTRARE
Wood working drills, brad point

05001 | C.V. | ~ DIN 7487

Serie corta
Short serie

HRC ≅ 50



Confezione
Packaging



Ø mm	Ø inch	d	l	L	pcs.	cod.	€ cad/each
3	1/8	3	33	61	10	050010300	**0,842**
4	5/32	4	43	75	10	050010400	**0,965**
5	3/16	5	52	86	10	050010500	**1,004**
6	15/64	6	57	93	10	050010600	**1,239**
7	9/32	7	69	109	10	050010700	**1,425**
8	5/16	8	75	117	10	050010800	**1,499**
9	11/32	9	81	125	10	050010900	**1,686**
10	3/8	10	87	133	10	050011000	**1,956**
11	7/16	10	94	142	5	050011100	**2,873**
12	15/32	10	101	151	5	050011200	**2,948**
13	1/2	10	101	151	5	050011300	**4,001**
14	9/16	10	108	160	5	050011400	**4,435**
15	19/32	10	114	169	5	050011500	**5,264**
16	5/8	10	120	178	5	050011600	**5,588**
18	23/32	10	130	191	5	050011800	**9,438**
20	3/4	10	140	205	5	050012000	**11,445**
22	7/8	10	140	210	1	050012200	**13,462**
24	15/16	10	140	215	1	050012400	**15,818**
26	1.1/32	10	140	215	1	050012600	**18,379**
28	1.1/8	10	140	220	1	050012800	**22,345**
30	1.3/16	12	140	220	1	050013000	**26,246**

Applicazioni
Applications

Legno *Wood*

Multistrato *Multilayer*

Truciolato *Chipboard*

Per forare legno e i suoi derivati.
For drilling wood.

Art. 05002 Self
Disponibile su richiesta
On demand



Art. 05010201
€ 7,765

5 pcs
Ø 4 - 5 - 6
8 - 10 mm



Art. 05010202
€ 11,519

8 pcs
Ø 3 - 4 - 5 - 6
7 - 8 - 9 - 10 mm



370x380x570

Art. 05010503
€ 643,060

137 pcs
Ø 3÷16 mm

05001

Ø	pcs
3	10
4	10
5	10
6	10
7	10
8	10
9	10
10	10
12	5
14	5
16	3

05020

Ø	pcs
6x245	5
8x245	5
10x245	5
12x245	5
14x245	3

05025

Ø	pcs
6x400	5
8x400	5
10x400	5
12x400	3
14x400	3

PUNTE ELICOIDALI PER LEGNO
A 2 TAGLIENTI CON PUNTA GUIDA A CENTRARE, SERIE LUNGA
Wood working drills, long serie

05020 C.V. **L=245 mm**

HRC ≅ 50

Confezione
Packaging





Ø mm	d	l	L	pcs.	cod.	€ cad/each
6	6	160	245	1	050200600	**6,752**
7	7	160	245	1	050200700	**6,752**
8	8	160	245	1	050200800	**6,752**
9	9	160	245	1	050200900	**7,497**
10	10	160	245	1	050201000	**7,497**
11	10	160	245	1	050201100	**9,738**
12	10	160	245	1	050201200	**9,738**
13	10	160	245	1	050201300	**11,434**
14	10	160	245	1	050201400	**11,434**
15	10	160	245	1	050201500	**13,272**
16	10	160	245	1	050201600	**13,272**
18	10	160	245	1	050201800	**16,872**
20	10	160	245	1	050202000	**21,004**
22	13	160	245	1	050202200	**26,272**
24	13	160	245	1	050202400	**29,244**

Art. 05021 Self
Disponibile su richiesta
On demand

Applicazioni
Applications

Legno *Wood* · Multistrato *Multilayer* · Truciolato *Chipboard*

Forano legno dolce, stratificati, tutti i suoi derivati. Speciali per mensole a scomparsa e travi in legno.

For soft wood, plywood, non coated chipboards. Special for wood beams.

05025 C.V. **L=400 mm**



Ø mm	d	l	L	pcs.	cod.	€ cad/each
6	6	230	400	1	050250600	**9,335**
8	8	230	400	1	050250800	**11,956**
10	10	230	400	1	050251000	**12,373**
12	10	230	400	1	050251200	**13,872**
13	10	230	400	1	050251300	**17,315**
14	10	230	400	1	050251400	**17,315**
15	10	230	400	1	050251500	**20,443**
16	10	230	400	1	050251600	**20,443**
18	10	230	400	1	050251800	**27,368**
20	10	230	400	1	050252000	**33,000**
22	13	230	400	1	050252200	**43,510**
24	13	230	400	1	050252400	**55,700**
26	13	230	400	1	050252600	**62,400**
28	13	230	400	1	050252800	**65,764**
30	13	230	400	1	050253000	**82,598**

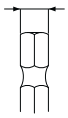
Art. 05026 Self
Disponibile su richiesta
On demand

PUNTE ELICOIDALI PER LEGNO
A 2 TAGLIENTI CON ATTACCO HEX 1/4”
Wood working drills, 1/4 Q.C. shank

05009 C.V.

Attacco 1/4" HEX form E
1/4" HEX form E shank

1/4" HEX FORM E



Applicazioni
Applications

Legno *Wood*
Multistrato *Multilayer*
Truciolato *Chipboard*



Confezione
Packaging



Ø mm	d ⬡	l	L	pcs.	cod.	€ cad/each
3	1/4	31	80	1	050090300	**1,840**
4	1/4	42	92	1	050090400	**1,989**
5	1/4	53	106	1	050090500	**2,061**
6	1/4	57	113	1	050090600	**2,210**
8	1/4	75	137	1	050090800	**2,429**
10	1/4	87	153	1	050091000	**2,816**

Per forare legno e i suoi derivati.

For drilling wood.



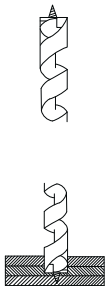
Art. 05010700
€ 14,740

5 pcs
Ø 4 - 5 - 6
8 - 10 mm

PUNTE PER LEGNO PROFESSIONALI
A SPIRALE SINGOLA TIPO LEWIS, GAMBO ESAGONALE
Hexagonal shank auger bits, Lewis type, for professional use

Tipo Lewis - Per travi in legno
Lewis type - For wooden beams

HRC ≅ 50



Confezione
Packaging



Applicazioni
Applications

Legno
Wood

Truciolato
Chipboard



05035 C.V. — L=155 mm

Ø mm	d ⬡	l	L	pcs.	cod.	€ cad/each
6	6	90	155	1	050350600	**7,771**
8	8	90	155	1	050350800	**8,279**
10	10	90	155	1	050351000	**9,714**
12	10	90	155	1	050351200	**11,147**
14	10	90	155	1	050351400	**12,373**
16	10	90	155	1	050351600	**13,404**
18	13	90	155	1	050351800	**15,345**
20	13	90	155	1	050352000	**17,680**
22	13	90	155	1	050352200	**18,814**
24	13	90	155	1	050352400	**20,039**

05036 C.V. — L=235 mm

Ø mm	d ⬡	l	L	pcs.	cod.	€ cad/each
6	6	160	235	1	050360600	**8,800**
8	8	160	235	1	050360800	**9,504**
10	10	160	235	1	050361000	**11,147**
12	10	160	235	1	050361200	**13,533**
14	10	160	235	1	050361400	**15,359**
16	10	160	235	1	050361600	**16,545**
18	13	160	235	1	050361800	**18,996**
20	13	160	235	1	050362000	**21,694**
22	13	160	235	1	050362200	**22,009**
24	13	160	235	1	050362400	**25,124**

05040 C.V. — L=300 mm

Ø mm	d ⬡	l	L	pcs.	cod.	€ cad/each
6	6	220	300	1	050400600	**11,754**
8	8	220	300	1	050400800	**11,754**
9	9	220	300	1	050400900	**12,758**
10	10	220	300	1	050401000	**13,563**
11	10	220	300	1	050401100	**14,975**
12	10	220	300	1	050401200	**16,103**
13	10	220	300	1	050401300	**15,756**
14	10	220	300	1	050401400	**17,278**
15	10	220	300	1	050401500	**18,839**
16	10	220	300	1	050401600	**18,839**
18	13	220	300	1	050401800	**21,157**
20	13	220	300	1	050402000	**23,361**
22	13	220	300	1	050402200	**26,445**
24	13	220	300	1	050402400	**28,984**
25	13	220	300	1	050402500	**31,982**
26	13	220	300	1	050402600	**32,315**
28	13	220	300	1	050402800	**36,749**
30	13	220	300	1	050403000	**41,408**
32	13	220	300	1	050403200	**51,217**



05042 C.V. — L=460 mm

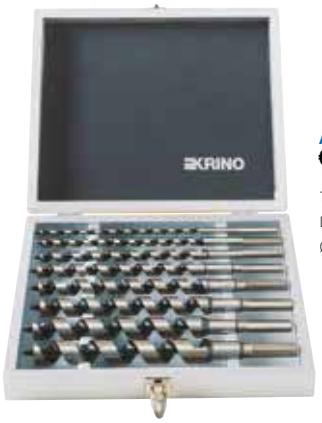
Ø mm	d ⬡	l	L	pcs.	cod.	€ cad/each
6	6	360	460	1	050420600	**19,948**
8	8	360	460	1	050420800	**20,469**
10	10	360	460	1	050421000	**20,946**
12	10	360	460	1	050421200	**25,967**
13	10	360	460	1	050421300	**27,729**
14	10	360	460	1	050421400	**27,795**
16	10	360	460	1	050421600	**29,624**
18	13	360	460	1	050421800	**33,191**
20	13	360	460	1	050422000	**37,847**
22	13	360	460	1	050422200	**41,005**
24	13	360	460	1	050422400	**42,668**
25	13	360	460	1	050422500	**46,613**
26	13	360	460	1	050422600	**48,498**
28	13	360	460	1	050422800	**55,058**
30	13	360	460	1	050423000	**64,246**
32	13	360	460	1	050423200	**77,312**
35	13	360	460	1	050423500	**102,402**
40	13	360	460	1	050424000	**136,314**

05044 C.V. — L=600 mm

Ø mm	d ⬡	l	L	pcs.	cod.	€ cad/each
8	8	400	600	1	050440800	**26,697**
10	10	400	600	1	050441000	**32,671**
12	10	400	600	1	050441200	**35,620**
13	10	400	600	1	050441300	**41,525**
14	10	400	600	1	050441400	**39,321**
16	10	400	600	1	050441600	**41,016**
18	13	400	600	1	050441800	**48,707**
20	13	400	600	1	050442000	**51,145**
22	13	400	600	1	050442200	**55,324**
24	13	400	600	1	050442400	**55,690**
25	13	400	600	1	050442500	**62,327**
26	13	400	600	1	050442600	**65,531**
28	13	400	600	1	050442800	**77,312**
30	13	400	600	1	050443000	**88,106**
32	13	400	600	1	050443200	**106,679**

Per forature di travi in legno. Foratura precisa e veloce grazie al centrino autoavvitante ed alla grande capacità di evacuazione dei trucioli.

For drilling wood beams and plankings.



Art. 05240300
€ 211,219

7 pcs ⬡
L = 300 mm
Ø 8 - 10 - 12 - 14
16 - 18 - 20

Cassetta in legno o in metallo
Metal or wooden case



Art. 05240301
€ 234,688

6 pcs ⬡
L = 460 mm
Ø 10 - 12 - 14
16 - 18 - 20

Cassetta in legno o in metallo
Metal or wooden case

PUNTE PER LEGNO PROFESSIONALI
A SPIRALE SINGOLA TIPO LEWIS CON GAMBO SDS-PLUS
SDS-PLUS shank auger bits, Lewis type

SDS plus

Confezione
Packaging





05037 SDS-PLUS - 235 mm

Ø mm	l	L	pcs.	cod.	€ cad/each
8	160	235	1	050370800	**9,818**
10	160	235	1	050371000	**11,552**
12	160	235	1	050371200	**13,404**
14	160	235	1	050371400	**15,230**
16	160	235	1	050371600	**16,872**
18	160	235	1	050371800	**18,814**
20	160	235	1	050372000	**22,322**
22	160	235	1	050372200	**23,378**
24	160	235	1	050372400	**26,258**

05038 SDS-PLUS - 460 mm

Ø mm	l	L	pcs.	cod.	€ cad/each
8	360	460	1	050380800	**18,411**
10	360	460	1	050381000	**18,708**
12	360	460	1	050381200	**21,670**
14	360	460	1	050381400	**25,763**
16	360	460	1	050381600	**29,350**
18	360	460	1	050381800	**34,643**
20	360	460	1	050382000	**38,789**
22	360	460	1	050382200	**41,345**
24	360	460	1	050382400	**44,774**



Art. 05240307
€ 219,042

SDS-PLUS
7 pcs ⬡
L = 235 mm
Ø 8 - 10 - 12 - 14
16 - 18 - 20 mm

Cassetta in metallo
Metal case



Art. 05240308
€ 239,734

SDS-PLUS
6 pcs ⬡
L =460 mm
Ø 10 - 12 - 14
16 - 18 - 20 mm

PUNTE ELICOIDALI PER LEGNO, SERIE LUNGA, SPECIALI PER CASSEFORMI
Wood working drills for plankings

05030 C.V.

Speciale per casseformi - L=400 mm
Special for plankings - L=400 mm

90°

90°

HRC ≅ 50



Confezione
Packaging



Ø *mm*	d	*l*	L	pcs.	cod.	€ cad/each
6	5	100	400	1	050300600	**9,061**
8	7	100	400	1	050300800	**11,629**
10	9	100	400	1	050301000	**12,034**
12	10	100	400	1	050301200	**14,864**
14	10	100	400	1	050301400	**17,655**
16	10	100	400	1	050301600	**20,223**
18	13	100	400	1	050301800	**28,879**
20	13	100	400	1	050302000	**35,295**
22	13	100	400	1	050302200	**46,535**
24	13	100	400	1	050302400	**47,940**
26	13	100	400	1	050302600	**64,095**
28	13	100	400	1	050302800	**70,185**
30	13	100	400	1	050303000	**79,455**

Per forare legno e i suoi derivati, pannelli in gesso, pannelli isolanti.
Speciali per casseformi, installazioni, carpenteria.

For holes in beams, boards, soft metal sheets, special for journeyman's.

Applicazioni
Applications

Legno
Wood

Truciolato
Chipboard

Ferro
Iron

Art. 05031 Self
Disponibile su richiesta
On demand

05033 C.V.

Speciale per casseformi - L=600 mm
Special for plankings - L=600 mm

90°

90°



HRC ≅ 50



Confezione
Packaging





Ø *mm*	d	*l*	L	pcs.	cod.	€ cad/each
6	5	100	600	1	050330600	**13,494**
8	7	100	600	1	050330800	**14,538**
10	9	100	600	1	050331000	**16,166**
12	10	100	600	1	050331200	**17,901**
14	10	100	600	1	050331400	**19,662**
16	10	100	600	1	050331600	**21,383**
18	13	100	600	1	050331800	**30,860**
20	13	100	600	1	050332000	**36,586**
22	13	100	600	1	050332200	**48,136**
24	13	100	600	1	050332400	**58,699**
26	13	100	600	1	050332600	**73,119**
28	13	100	600	1	050332800	**79,821**
30	13	100	600	1	050333000	**93,081**

Applicazioni
Applications



Legno
Wood



Truciolato
Chipboard



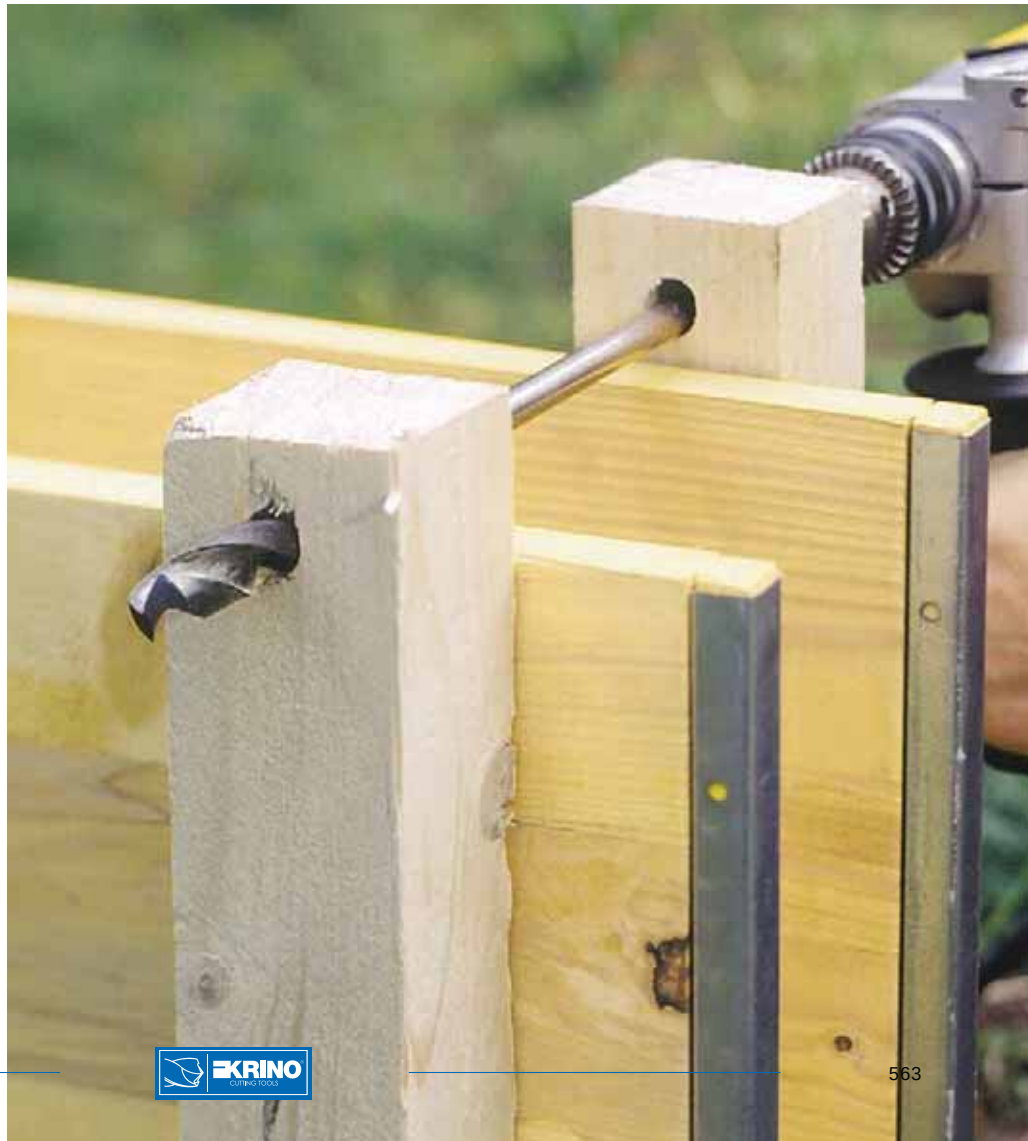
Ferro
Iron



Art. 05034 Self
Disponibile su richiesta
On demand

Per forare legno e i suoi derivati, pannelli in gesso, pannelli isolanti.
Speciali per casseformi, installazioni, carpenteria.

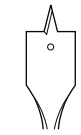
For holes in beams, boards, soft metal sheets, special for journeyman's.

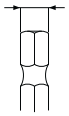


MECCHIE PIATTE PER LEGNO, CODOLO ESAGONALE
Hexagonal shank wood spade bits

05045 C.V. 1/4 HEX

Serie corta - L=150/160 mm
Short serie - L=150/160 mm


HRC = 48÷50

1/4" HEX FORM E




Confezione
Packaging



Ø mm	d ⬡	L	pcs.	cod.	€ cad/each
6	6,35	150	5	050450600	**3,078**
8	6,35	150	5	050450800	**3,078**
9	6,35	150	5	050450900	**3,104**
10	6,35	150	5	050451000	**3,104**
11	6,35	150	5	050451100	**3,143**
12	6,35	150	5	050451200	**3,143**
13	6,35	150	5	050451300	**3,324**
14	6,35	150	5	050451400	**3,324**
15	6,35	150	5	050451500	**3,429**
16	6,35	150	5	050451600	**3,429**
18	6,35	150	5	050451800	**3,677**
19	6,35	150	5	050451900	**3,807**
20	6,35	150	5	050452000	**3,807**
22	6,35	150	5	050452200	**4,328**
24	6,35	150	5	050452400	**4,667**
25	6,35	150	5	050452500	**4,876**
26	6,35	160	5	050452600	**5,254**
28	6,35	160	5	050452800	**5,477**
30	6,35	160	5	050453000	**5,803**
32	6,35	160	5	050453200	**6,088**
34	6,35	160	5	050453400	**6,962**
35	6,35	160	5	050453500	**7,223**
36	6,35	160	5	050453600	**7,223**
38	6,35	160	5	050453800	**7,366**
40	6,35	160	5	050454000	**7,627**

Applicazioni
Applications


Legno
Wood


Multistrato
Multilayer


Truciolato
Chipboard



Art. 05055100
€ 20,772
6 pcs
Ø 10 - 12 - 16
18 - 20 - 25 mm


Art. 05047 Self
Disponibile su richiesta
On demand

PROLUNGA PER MECCHIE L = 300 mm
Spade bit extension

05046

L= 300 mm



Confezione
Packaging

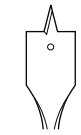


Ø mm	d ⬡	L	pcs.	cod.	€ cad/each
13	6,35	300	1	05046	**20,875**

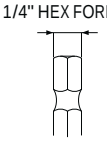
MECCHIE PIATTE PER LEGNO, CODOLO ESAGONALE
Hexagonal shank wood spade bits

05048 C.V. 1/4 HEX

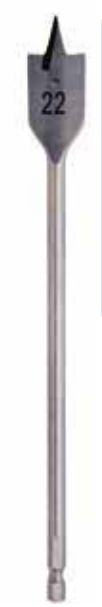
Serie lunga - L=400 mm
Long serie - L=400 mm



HRC = 48÷50



1/4" HEX FORM E



Confezione
Packaging



Ø mm	d ⬡	L	pcs.	cod.	€ cad/each
***6**	4,50	400	5	050480600	**9,818**
8	6,35	400	5	050480800	**10,991**
10	6,35	400	5	050481000	**11,461**
12	6,35	400	5	050481200	**13,143**
14	6,35	400	5	050481400	**14,317**
16	6,35	400	5	050481600	**14,995**
18	6,35	400	5	050481800	**15,307**
20	6,35	400	5	050482000	**15,789**
22	6,35	400	5	050482200	**16,299**
24	6,35	400	5	050482400	**16,636**
25	6,35	400	5	050482500	**17,106**
26	6,35	400	5	050482600	**18,320**
28	6,35	400	5	050482800	**18,320**
30	6,35	400	5	050483000	**19,126**
32	6,35	400	5	050483200	**19,635**
34	6,35	400	5	050483400	**20,000**
35	6,35	400	5	050483500	**20,795**
36	6,35	400	5	050483600	**21,279**
38	6,35	400	5	050483800	**21,643**
40	6,35	400	5	050484000	**22,464**

*Attacco esagonale
**Hexagonal shank*

Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

Foratura nel legno dolce e legno duro, nei suoi derivati e nel cartongesso.
For drilling wood.

MECCHIE PIATTE PER LEGNO, CODOLO ESAGONALE
Hexagonal shank wood spade bits

05050 C.V.

Diametro regolabile
Adjustable diameter



Confezione
Packaging



Ø min -max mm	d ⬡	pcs.	cod.	€ cad/each
Ø 14,5 ÷ 45	10	1	0505001	**26,442**
Ø 22 ÷ 75	10	1	0505002	**32,295**

Ricambio *Spare part*	Ø	pcs.	cod.	€ cad/each
	**Ø 14,5 ÷ 45** (2pcs)	1	0505011	**6,336**
	Ø 22 ÷ 75 (2pcs)	1	0505012	**7,131**

Applicazioni
Applications



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard



Art. 05051 Self
Disponibile su richiesta
On demand

FRESE TIPO FORSTNER A DUE TAGLIENTI
CON PUNTA DA CENTRO ED INCISORI PER FORI NEL LEGNO
Wood center bits, Forstner type

05065 HM ~ DIN 7483
Carbide

Per legno duro - uso intensivo
For hard wood - intensive use


Metallo duro
Carbide



Confezione
Packaging



Ø mm	d	L	pcs.	cod.	€ cad/each
15	8	90	1	050651500	**35,608**
20	8	90	1	050652000	**38,190**
25	8	90	1	050652500	**40,718**
26	8	90	1	050652600	**43,286**
30	8	90	1	050653000	**45,802**
35	10	90	1	050653500	**48,359**

Applicazioni
Applications


Legno duro e derivati
Hard wood

05067 C.V. ~ DIN 7483

Alto rendimento
High performance


HRC = 55



Confezione
Packaging



Ø mm	d	L	pcs.	cod.	€ cad/each
15	8	90	1	050671500	**21,044**
18	8	90	1	050671800	**21,317**
20	8	90	1	050672000	**23,103**
22	8	90	1	050672200	**23,535**
24	8	90	1	050672400	**23,770**
25	8	90	1	050672500	**23,770**
26	8	90	1	050672600	**23,770**
28	8	90	1	050672800	**23,977**
30	8	90	1	050673000	**23,977**
35	10	90	1	050673500	**24,591**
40	10	90	1	050674000	**27,263**
45	10	90	1	050674500	**29,754**
48	10	90	1	050674800	**29,754**
50	10	90	1	050675000	**34,670**

Applicazioni
Applications


Legno dolce e derivati
Mild wood



Art. 05100605
€ 98,712

5 pcs
Ø 15 - 20 - 25
30 - 35 mm

FRESE TIPO FORSTNER A DUE TAGLIENTI
CON PUNTA DA CENTRO ED INCISORI PER FORI NEL LEGNO
Wood center bits, Forstner type

05063 C.V. ~ DIN 7483



HRC ≈ 48÷50



Confezione
Packaging



Applicazioni
Applications



Legno dolce e derivati
Mild wood

Ø *mm*	d	L	pcs.	cod.	€ cad/each
10	8	90	1	050631000	**8,084**
12	8	90	1	050631200	**8,084**
14	8	90	1	050631400	**10,340**
15	8	90	1	050631500	**10,340**
16	8	90	1	050631600	**11,448**
17	8	90	1	050631700	**11,669**
18	8	90	1	050631800	**11,669**
20	8	90	1	050632000	**12,777**
22	8	90	1	050632200	**13,508**
24	8	90	1	050632400	**14,108**
25	8	90	1	050632500	**14,512**
26	8	90	1	050632600	**15,020**
28	8	90	1	050632800	**19,752**
30	8	90	1	050633000	**22,086**
32	10	90	1	050633200	**23,900**
34	10	90	1	050633400	**24,798**
35	10	90	1	050633500	**24,798**
36	10	90	1	050633600	**26,649**
38	10	90	1	050633800	**29,467**
40	10	100	1	050634000	**31,096**
45	10	100	1	050634500	**35,595**
50	10	100	1	050635000	**40,417**



Art. 05100600
€ 84,619

5 pcs
Ø 15 - 20 - 25
30 - 35 mm

FRESE PER CERNIERE INVISIBILI
Wood center bits

Per cerniere invisibili
For invisible hinges



Confezione
Packaging



05058 C.V.

Ø mm	d ⬡	L	pcs.	cod.	€ cad/each
26	8	55	1	050582600	**9,622**
30	8	55	1	050583000	**11,004**
35	10	60	1	050583500	**12,373**

05060 HM Carbide edges

Ø mm	d ⬡	L	pcs.	cod.	€ cad/each
26	8	55	1	050602600	**36,729**
30	8	55	1	050603000	**39,598**
35	10	60	1	050603500	**40,497**

FRESE PER TASSELLI
Tenon dowel plug cutters

05077 C.V. **DIN 7489**

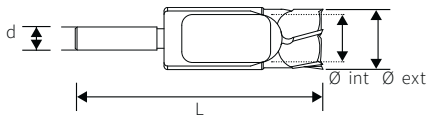
Per tasselli
Tenon dowel plug cutters



Confezione
Packaging



Ø int mm	Ø ext mm	n. taglienti cutting edges	d	L	pcs.	cod.	€ cad/each
8	17,5	4	11	140	1	050770800	**40,374**
10	20,5	4	11	140	1	050771000	**44,807**
12	23,5	4	13	140	1	050771200	**49,339**
15	26,5	4	13	140	1	050771500	**56,088**
16	28	4	13	140	1	050771600	**58,305**
20	32	4	13	140	1	050772000	**67,260**
22	34	5	13	140	1	050772200	**71,792**
25	37	5	13	140	1	050772500	**78,541**
26	38	5	13	140	1	050772600	**80,759**
30	42	5	13	140	1	050773000	**89,900**
35	47	6	16	160	1	050773500	**100,685**
40	52	6	16	160	1	050774000	**112,675**



TRIVELLINO PROFESSIONALE PER LEGNO
Two flute gimlet

05076



Ø mm	L	pcs.	cod.	€ cad/each
2	110	1	050760200	**3,456**
3	115	1	050760300	**3,572**
4	135	1	050760400	**4,094**
5	140	1	050760500	**5,568**
6	160	1	050760600	**8,111**
7	170	1	050760700	**8,111**

SVASATORE 90° PER LEGNO
Wood center bits

05440 C.V.

90°

90°



Z=5

Applicazioni
Applications


Legno
Wood


Multistrato
Multilayer


Truciolato
Chipboard


Art. 05442 Self
Disponibile su richiesta
On demand



Confezione
Packaging



Ø mm	d	L	pcs.	cod.	€ cad/each
8	6	50	1	05440500800	**5,503**
10	8	50	1	05440501000	**6,011**
12	8	50	1	05440501200	**6,232**
16	8	50	1	05440501600	**6,859**
20	8	50	1	05440502000	**7,589**

Foratura nel legno dolce e legno duro, nei suoi derivati e nel cartongesso.
For drilling wood.

FRESA A 90° PER LEGNO
90° milling cutters

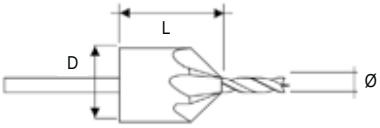
05072 C.V.



Confezione
Packaging



Ø mm	D	L	pcs.	cod.	€ cad/each
3	16	25	1	050720300	**11,589**
4	16	25	1	050720400	**11,589**
5	16	25	1	050720500	**11,704**
6	16	25	1	050720600	**11,931**
7	16	25	1	050720700	**12,205**
8	20	25	1	050720800	**13,695**
10	20	25	1	050721000	**14,332**
12	20	25	1	050721200	**15,846**



05070 C.V.



Confezione
Packaging



Ø mm	D	L	pcs.	cod.	€ cad/each
3	16	25	1	050700300	**11,202**
4	16	25	1	050700400	**11,202**
5	16	25	1	050700500	**11,202**
6	16	25	1	050700600	**11,202**
7	16	25	1	050700700	**11,202**
8	20	25	1	050700800	**11,202**
9	20	25	1	050700900	**11,202**
10	20	25	1	050701000	**11,202**
11	20	25	1	050701100	**11,202**
12	20	25	1	050701200	**11,202**



Art. 05010205
€ 50,910
5 pcs
Ø 4 - 5 - 6 - 8 - 10 mm

SEGHE A TAZZA PER LEGNO
CON LAME INTERCAMBIABILI IN ACCIAIO W.S.
Tool steel hole - saw kit for wood

05080 C.V.



Confezione
Packaging



Composizione *Size*	H *mm*	pcs.	cod.	€ cad/each
7 pcs Ø 26 - 32 - 38 - 45 - 50 - 56 - 63	25	1	05080100	**9,835**
7 pcs Ø 26 - 32 - 38 - 45 - 50 - 56 - 63	50	1	05080101	**11,806**
5 pcs Ø 60 - 67 - 74 - 81 - 95	40	1	05080102	**31,213**

Foratura nel legno, nei suoi derivati e nel cartongesso.
For drilling wood

Applicazioni
Applications

Legno *Wood*

Truciolato *Chipboard*

Multistrato *Multilayer*

KIT PER LEGNO E CARTONGESSO
Tool steel hole - saw kit for wood



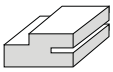
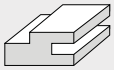
Art. 05079600
€ 168,973

Ø 40÷200

Composizione *Description*	pcs.
Sega regolabile a compasso con punta a centrare, due incisori e attacco hex per uso su trapani con mandrino a cremagliera *Adjustable compass saw with centering tip, two engravers and hex attachment to fit drill chuck with key*  Ø 4 - 5 - 6 - 8 - 10 mm  Ø 4 - 5 - 6 - 8 - 10 mm	1
Campana protettiva antipolvere trasparente Ø 280 mm Transparent dustproof protective bell Ø 280 mm	1
Matita Pencil	1
Flessometro Measuring tape	1

FRESE A PROFILO IN ACCIAIO
DA UTENSILE PER TRAPANI E FRESATRICI
Tool bits for power drills

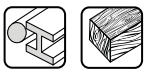
05400 C.V.

			cod.	d	Ø mm	pcs.	€ cad/each
	Fresa a mortasare *Straight bit*		05400100	8	6	1	**9,896**
	Sega circolare *Slotting saw*		05400170	8	50	1	**11,461**
	Frese per incastri *Tongue cutter*		05400110	8	30	1	**12,400**
	Fresa conica 45° *45° Chamfering bit*		05400180	8	35	1	**12,126**
	Fresa cilindrica per spianare e levigare *Cylindrical cutter*		05400120	8	25	1	**12,400**
	Frese a raggio convesso *Round cutter*		05400190	8	35	1	**12,126**
	Frese per profili tondi *Rounding off cutter*		05400130	8	25	1	**12,400**
	Frese a raggio concavo *Round cutter*		05400200	8	35	1	**12,126**
	Frese per scanalature *Flute cutter*		05400140	8	35	1	**12,400**
	Frese a raggio convesso esterno *Beading cutter*		05400210	8	35	1	**12,777**
	Frese per intagli *Slotting cutter*		05400150 05400160	8	35 S.2,5 35 S.1,5	1	**7,301** **7,301**
	Frese a raggio concavo *Beading cut*		05400220	8	35	1	**12,777**

Profilatura nel legno dolce e duro su trapani montati su supporto o su fresatrici.
Tool steel end mills for use in power drills with drill stand or with milling machines, for soft and medium hard wood.

FRESE E RASPE
IN ACCIAIO DA UTENSILE PER TRAPANI E FRESATRICI
Tool bits for power drills

05430 05432

		applicazioni *applications*	cod.	d	Ø mm	pcs.	€ cad/each
	Raspa cilindrica *Cylindrical rasp*		05430100	6	15	1	**5,568**
	Raspa cilindrica a testa semisferica Cylindrical rasp		05430110	6	13	1	**5,815**
	Raspa conica *Conical rasp*		05430120	6	6/15	1	**5,737**
	Raspa cilindrica *Cylindrical rasp*		05432100	6	15	1	**5,254**
	Raspa conica *Conical rasp*		05432110	6	6/15	1	**5,346**



Art. 05450201
€ 42,309
5 pcs

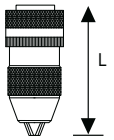

KRINO



ACCESSORI
ACCESSORIES

28031

Con ghiera di bloccaggio
With ring lock system





Confezione
Packaging



cod.	capacità *sizes* *mm*	attacco *attachment*	L	pcs.	€ cad/each
2803140	1÷13	1/2x20 UNF	100	1	**92,512**

28051

Uso intensivo
Intensive use



Camicia metallica
Metal sleeve



Griffe in metallo duro
Carbide jaws



Confezione
Packaging



cod.	capacità *sizes* *mm*	attacco *attachment*	*l*	L	pcs.	€ cad/each
2805140	1,5÷13	1/2x20 UNF	-	65	1	**57,624**

28007

Uso intensivo
Intensive use



Camicia metallica
Metal sleeve



Griffe in metallo duro
Carbide jaws



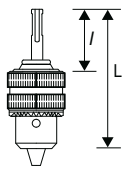
Confezione
Packaging



cod.	capacità *sizes* *mm*	attacco *attachment*	*l*	L	pcs.	€ cad/each
2800730	1,5÷-13	SDS PLUS	50	115	1	**61,152**

28009

DIN 6349



Camicia metallica
Metal sleeve



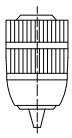
cod.	capacità *sizes* *mm*	attacco *attachment*	*l*	L	chiave *key*	pcs.	€ cad/each
2800930	1÷13	SDS	52	115	-	1	**39,482**



Display da banco incluso
Acquistando 5 pcs
Table display included by purchasing 5 pcs

MANDRINI AUTOSERRANTI PER ELETTROUTENSILI
Keyless drill chucks for portable power drills

28053



Camicia metallica
Metal sleeve

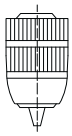


Confezione
Packaging



cod.	capacità *sizes* *mm*	attacco *attachment*	L	pcs.	€ cad/each
2805330	1,5÷13	3/8x24 UNF	75	1	**35,413**
2805340	1,5÷13	1/2x20 UNF	75	1	**35,413**

28055



Camicia metallica
Metal sleeve



Griffe in metallo duro
Carbide jaws

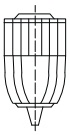


Confezione
Packaging



cod.	capacità *sizes* *mm*	attacco *attachment*	L	pcs.	€ cad/each
2805540	1,5÷13	1/2x20 UNF	75	1	**41,236**

28054



Camicia plastica
Plastic sleeve

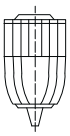


Confezione
Packaging



cod.	capacità *sizes* *mm*	attacco *attachment*	L	pcs.	€ cad/each
2805410	1 ÷ 10	3/8x24 UNF	64	1	**23,608**
2805420	1 ÷ 10	1/2x20 UNF	64	1	**23,608**
2805430	1,5 ÷ 13	3/8x24 UNF	75	1	**25,573**
2805440	1,5 ÷ 13	1/2x20 UNF	75	1	**25,573**

28058



Camicia plastica
Plastic sleeve



Confezione
Packaging



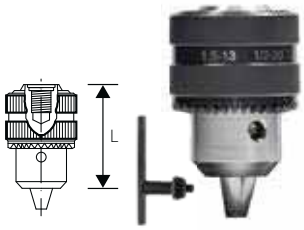
cod.	capacità *sizes* *mm*	attacco *attachment*	L	pcs.	€ cad/each
2805810	0,5÷10	3/8x24 UNF	61	1	**15,228**
2805820	0,5÷10	1/2x20 UNF	61	1	**15,228**
2805830	2÷13	3/8x24 UNF	72	1	**18,274**
2805840	2÷13	1/2x20 UNF	72	1	**18,274**

MANDRINI A CREMAGLIERA PER ELETTROUTENSILI PORTATILI E PER MACCHINE UTENSILI, COMPLETI DI CHIAVE, DIN 6349

Keyless chucks for portable power tools, key chuck included

28004

Uso intensivo
Intensive use



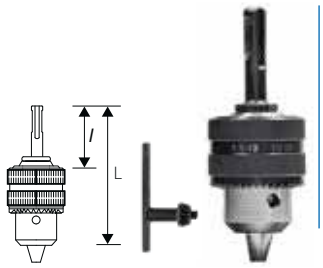
Confezione
Packaging



cod.	capacità *sizes* mm	attacco *attachment*	L	chiave *key*	pcs.	€ cad/each
2800440	2-13	1/2x20 UNF	57	S2	1	**39,984**

28007

Uso intensivo
Intensive use

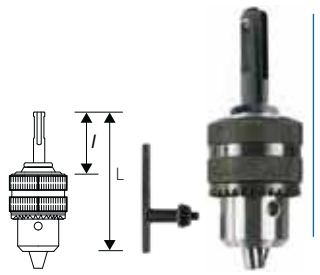


Confezione
Packaging



cod.	capacità *sizes* mm	attacco *attachment*	l	L	chiave *key*	pcs.	€ cad/each
2800710	2-13	SDS-PLUS	50	107	S2	1	**43,512**

28009



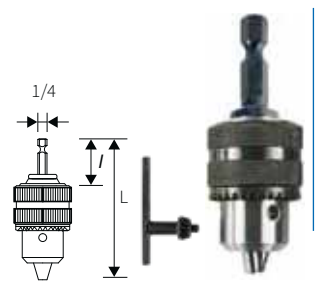
Confezione
Packaging



cod.	capacità *sizes* mm	attacco *attachment*	l	L	chiave *key*	pcs.	€ cad/each
2800910	1,5 -13	SDS	52	107	S2	1	**16,885**



Display da banco incluso
Acquistando 5 pcs
Table display included by purchasing 5 pcs



Confezione
Packaging



cod.	capacità *sizes* mm	attacco *attachment*	l	L	chiave *key*	pcs.	€ cad/each
2800920	1,5 -13	1/4" HEX FORM E	28	84	S1	1	**16,292**

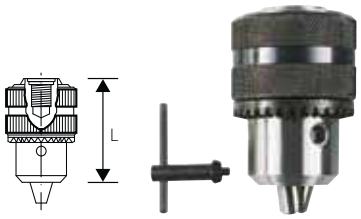


Display da banco incluso
Acquistando 5 pcs
Table display included by purchasing 5 pcs

MANDRINI A CREMAGLIERA PER ELETTROUTENSILI PORTATILI E PER MACCHINE UTENSILI, COMPLETI DI CHIAVE, DIN 6349

Keyless chucks for portable power tools, key chuck included

28001



cod.	capacità *sizes* mm	attacco *attachment*	L	chiave *key*	pcs.	€ cad/each
2800110	1÷10 R.	3/8x24 UNF	62	S 1	1	**13,773**
2800120	1÷10 R.	1/2x20 UNF	62	S 1	1	**13,773**
2800130	1,5÷13 R.	3/8x24 UNF	78	S 2	1	**15,279**
2800140	1,5÷13 R.	1/2x20 UNF	78	S 2	1	**14,230**
2800160	3÷16 R.	1/2x20 UNF	87	S 3	1	**20,152**
2800150	3÷16 R.	5/8x16 UNF	87	S 3	1	**31,944**

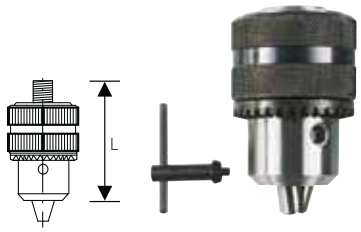


Display da banco incluso
Acquistando 5 pcs

Table display included by purchasing 5 pcs



28002



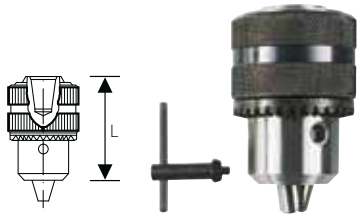
cod.	capacità *sizes* mm	attacco *attachment*	L	chiave *key*	pcs.	€ cad/each
2800210	1-10	3/8x24 UNF	74	S 1	1	**17,055**
2800220	1-10	1/2x20 UNF	74	S 1	1	**17,055**
2800230	1.5-13	3/8x24 UNF	89	S 2	1	**18,916**
2800250	3-16	5/8x16 UNF	99	S 3	1	**30,804**



Confezione
Packaging



28003



cod.	capacità *sizes* mm	attacco *attachment*	L	chiave *key*	pcs.	€ cad/each
2800310	1-10	B 12	62	S 1	1	**16,399**
2800320	1,5-13	B 16	78	S 2	1	**18,189**
2800325	3-16	B 16	87	S 3	1	**29,620**
2800330	3-16	B 18	87	S 3	1	**29,620**



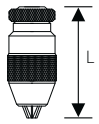
Confezione
Packaging



MANDRINI AUTO-SERRANTI DI PRECISIONE
PER TRAPANI A COLONNA E MACCHINE UTENSILI
Industrial quality keyless drill chucks

28035

Uso intensivo - massima precisione
Intensive use - max precision







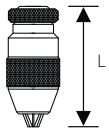
Confezione
Packaging



cod.	capacità *sizes mm*	attacco *attachment*	L	pcs.	€ cad/each
2803540	1-16	B16	95	1	**186,984**

28034

Massima precisione
Max precision







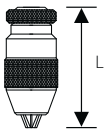
Confezione
Packaging



cod.	capacità *sizes mm*	attacco *attachment*	L	pcs.	€ cad/each
2803410	1÷10	B 12	70	1	**90,255**
2803430	1÷13	B 16	90	1	**97,026**
2803440	1÷16	B 16	103	1	**110,564**
2803450	1÷16	B 18	105	1	**110,564**
2803460	5÷20	B 22	124	1	**110,564**

MANDRINI AUTO-SERRANTI DI PRECISIONE
PER TRAPANI A COLONNA E MACCHINE UTENSILI
Industrial quality keyless drill chucks

28032





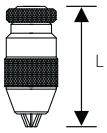


Confezione
Packaging



cod.	capacità *sizes* *mm*	attacco *attachment*	L	pcs.	€ cad/each
2803210	1÷10	B 12	86	1	**59,578**
2803220	1÷10	B 16	86	1	**59,578**
2803229	1÷13	B 12	102	1	**64,163**
2803230	1÷13	B 16	102	1	**64,163**
2803231	1÷13	B 18	108	1	**64,163**
2803240	1÷16	B 16	108	1	**72,912**
2803250	1÷16	B 18	108	1	**72,912**

28030







Confezione
Packaging



cod.	capacità *sizes* *mm*	attacco *attachment*	L	pcs.	€ cad/each
2803010	1÷10	3/8x24 UNF	86	1	**58,661**
2803020	1÷10	1/2x20 UNF	86	1	**58,661**
2803030	1÷13	3/8x24 UNF	102	1	**65,432**
2803040	1÷13	1/2x20 UNF	102	1	**65,432**
2803050	1÷16	1/2x20 UNF	102	1	**77,280**
2803060	1÷16	5/8X16 UNF	102	1	**77,280**

RACCORDI DI ADATTAMENTO PER MANDRINI
Mandrel adapter SDS PLUS-1/2 UNF

28186

attacco *attachment*			cod.	pcs.	€ cad/each
SDS - PLUS		1/2 x 20 UNF	**28186100**	5	**12,686**
1/4 Q.C.		1/2 x 20 UNF	**28186201**	5	**9,733**
		M6	**28186101**	5	**0,953**
1/4 Q.C.		3/8 x 24 UNF	**28186200**	1	**9,022**
1/2 x 20 UNF		3/8 x 24 UNF	**28186204**	1	**7,902**
1/2 x 20 UNF		3/8 x 24 UNF	**28186203**	1	**7,902**
3/8 x 24 UNF		3/8 x 24 UNF	**28186205**	1	**4,304**

Confezione *Packaging*

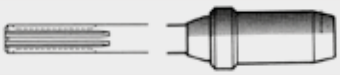
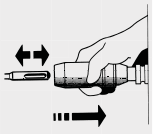




ADATTATORE A CAMBIO RAPIDO SDS-MAX / SDS-PLUS
SDS-MAX / SDS-PLUS adapter

03184



			cod.	L	€ cad/each	
SDS-MAX		SDS-PLUS	03184101	220	**88,211**	

CHIAVI PER MANDRINI A CREMAGLIERA
Chucks keys

28010



Confezione *Packaging*

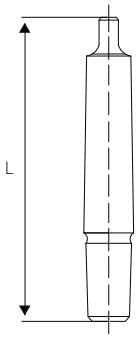


cod.	tipo / *sizes* *DIN*	pcs.	€ cad/each
2801009	S1	1	**2,959**
2801010	S2	1	**4,094**
2801020	S3	1	**5,359**

ATTACCHI CONICI MORSE PER MANDRINI, TEMPRATI E RETTIFICATI
Taper drill chuck arbors

28160

Cono esterno
External Morse DIN 228



Cono DIN 238 per mandrino
Morse DIN 228 for chuck



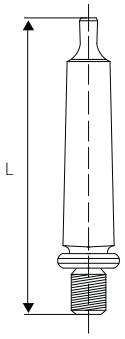
Confezione
Packaging



cono morse *morse taper* DIN 228	attacco conico mandrino *drill chuck taper* DIN 238	L	cod.	€ cad/each
1	B10	86	281600110	12,961
1	B12	89	281600112	12,961
1	B16	99	281600116	12,961
1	B18	99	281600118	12,961
2	B10	105	281600210	16,220
2	B12	105	281600212	16,220
2	B16	112	281600216	16,220
2	B18	119	281600218	16,220
2	B22	130	281600222	16,220
3	B12	127	281600312	22,922
3	B16	134	281600316	22,922
3	B18	140	281600318	22,922
3	B22	147	281600322	22,922
3	B24	157	281600324	22,922
4	B16	157	281600416	35,842
4	B18	164	281600418	35,842
4	B22	176	281600422	35,842
4	B24	186	281600424	35,842
5	B16	198	281600516	53,588
5	B18	198	281600518	53,588
5	B22	207	281600522	53,588
5	B24	217	281600524	53,588

28165

Cono esterno
External Morse DIN 228



Per mandrino
For chuck



Confezione
Packaging

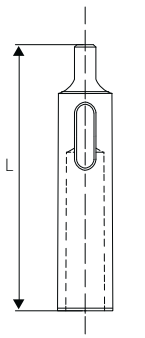


cono morse *morse taper* DIN 228	attacco conico mandrino *drill chuck taper*	L	cod.	€ cad/each
2	3/8x24 UNF	95	28165023/8	21,577
2	1/2x20 UNF	110	28165021/2	21,577
2	5/8x16 UNF	135	28165025/8	26,794
3	3/8x24 UNF	115	28165033/8	29,609
3	1/2x20 UNF	125	28165031/2	29,609
3	5/8x16 UNF	150	28165035/8	29,609

BUSSOLE DI RIDUZIONE PER CONI MORSE, TEMPRATE E RETTIFICATE INTERNAMENTE ED ESTERNAMENTE
Hardened and ground morse taper sleeve

28150 DIN 2185

Cono esterno
External Morse
DIN 228



Cono interno
Internal Morse
DIN 228



Confezione
Packaging

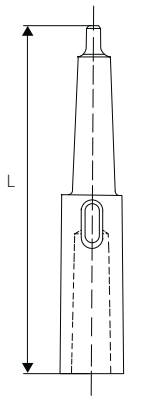


cono morse *morse taper* DIN 228 esterno *external*	interno *internal*	L	cod.	€ cad/each
1	0	80	281500100	18,044
2	1	92	281500201	16,220
3	1	99	281500301	19,740
3	2	112	281500302	19,740
4	1	124	281500401	26,584
4	2	124	281500402	26,584
4	3	140	281500403	26,584
5	1	156	281500501	58,946
5	2	156	281500502	58,946
5	3	156	281500503	58,946
5	4	171	281500504	58,946
6	4	219	281500604	104,358
6	5	219	281500605	104,358

PROLUNGHE PER UTENSILI CONO MORSE, TEMPRATE E RETTIFICATE INTERNAMENTE ED ESTERNAMENTE
Morse taper sleeve extension, hardened and ground internally and externally

28154 DIN 2187

Cono esterno
External Morse
DIN 228



Cono interno
Internal Morse
DIN 228



Confezione
Packaging



cono morse *morse taper* DIN 228 esterno *external*	interno *internal*	L	cod.	€ cad/each
1	1	145	281540101	48,842
1	2	160	281540102	51,840
2	1	160	281540201	39,258
2	2	175	281540202	50,771
2	3	196	281540203	65,361
3	1	175	281540301	53,300
3	2	194	281540302	53,300
3	3	215	281540303	72,480
3	4	240	281540304	111,685
4	1	200	281540401	111,685
4	2	215	281540402	84,619
4	3	240	281540403	84,619
4	4	265	281540404	111,685
4	5	300	281540405	157,945
5	1	232	281540501	164,998
5	2	247	281540502	149,484
5	3	268	281540503	145,258
5	4	300	281540504	117,748
5	5	335	281540505	183,331
6	1	294	281540601	261,402
6	2	309	281540602	342,372
6	3	330	281540603	342,372
6	4	355	281540604	342,372
6	5	390	281540605	350,911

ESTRATTORI PER UTENSILI CON CONO MORSE DIN 228 IN ACCIAIO TRATTATO
Ejector drifts

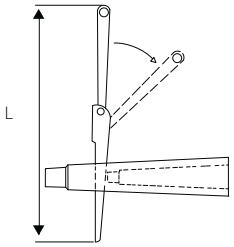
28158 DIN 317



Confezione
Packaging



cono morse *morse taper*	L	cod.	€ cad/each
1-2	140	281580102	**8,540**
3	190	281580300	**13,260**
4	225	281580400	**19,974**
5-6	265	281580506	**27,497**



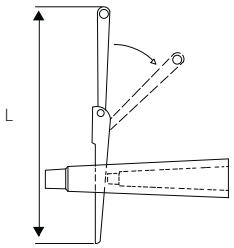
28158 DIN 318 SEMIAUTOMATICO



Confezione
Packaging



cono morse *morse taper*	L	cod.	€ cad/each
1-2-3	320	28158A0103	**85,596**
4-5-6	380	28158A0406	**104,358**



Pasta lubrificante per il taglio
Cutting paste



Art. 4100401
€ 12,973

Olio da taglio minerale intero 0,5 lt
Cutting oil 0,5 lt



Art. 28020004
€ 37,614

Olio da taglio emulsionabile in tanica 5 Kg (5lt)
Cutting oil tank 5 lt

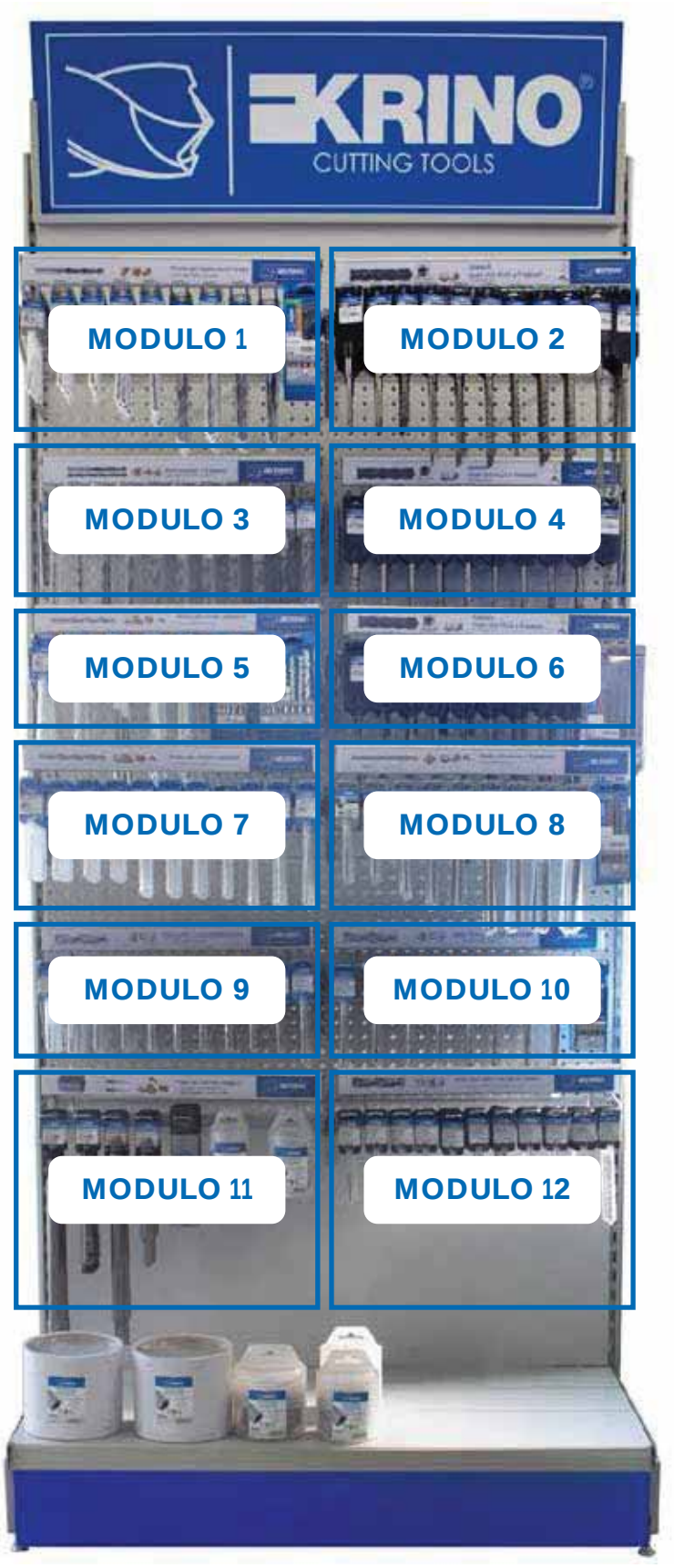


Art. 28020005
€ 120,995


Punte per legno serie lunga
Punte HSS+G DIN 338
Speedmaster
Punte HSS-CO5% DIN 338 al Cobalto

SISTEMI ESPOSITIVI
DISPLAY SYSTEMS

SISTEMA A MODULI PER L'ALLESTIMENTO
DI PARETI ATTREZZATE A LIBERO SERVIZIO
Modular system for free standing wall display system.



Componi la tua parete in 5 mosse:
Compose your display wall in 5 moves:

1 **Individua la categoria merceologica di tuo interesse.**
Identify the product category of your interest.

2 **Individua la famiglia prodotto di tuo interesse.**
Identify the product family of your interest.

3 **Scegli la profondità di assortimento desiderata.**
tra soluzioni a 1 o più moduli.

Choose the desired assortment depth from 1- or multi-module solutions.

4 **Individua codice e prezzo**
del modulo pre assortito.

Identify pre-sorted module code and price.

5 **Infine, componi il mix di assortimento**
che risponde alle tue esigenze.
Grazie al sistema espositivo multilivello, per ogni metro lineare è possibile comporre la tua esposizione in modo flessibile, sfruttando un massimo di 12 moduli espositivi.

Finally, compose the assortment mix that meets your needs. With the multilivell display system, for each linear meter you can flexibly compose your display, taking advantage of up to 12 display modules.

Rivolgiti all'agente di zona per consultare il dettaglio di ciascun assortimento e per ulteriori informazioni.
Contact your local agent to see the details of each assortment and for more information.

1	2		3	4	
CATEGORIA MERCEOLOGICA *PRODUCT CATEGORY*	**FAMIGLIA PRODOTTO** *CATEGORY ITEM NUMBER*	**DESCRIZIONE ARTICOLO** *ITEM DESCRIPTION*	**N. MODULI** *N° OF MODULS*	**CODICE MODULO** *MODULS ITEM NUMBER*	**LISTINO €** *PRICE LIST €*
METALLO - PUNTE *METAL - DRILL BITS*	01120	PUNTA HSS-CO 8% DIN 338 SERIE CORTA *HSS-CO 8% twist drill DIN 338 short serie*	2	01135550	**1.640,910 €**
			1	01135551	705,180 €
	01145	PUNTA HSS-CO 5% DIN 338 SERIE CORTA *HSS-CO 5% twist drill DIN 338 short serie*	2	01155550	1.162,250 €
			2	01155551	1.089,230 €
			1	01155552	465,200 €
	01220	PUNTE HSS-G DIN 338 SPEEDMASTER *HSS-G twist drill DIN 338 Speedmaster*	2	01229550	1.177,620 €
			1	01229551	665,160 €
			1	01229552	543,370 €
	01060	PUNTA HSS-G DIN 338 FINITURA NERA *HSS-G twist drill DIN 338 black finish*	3	01068550	1.636,970 €
			3	01068551	1.633,150 €
			2	01068552	1.168,390 €
		ASSORTIMENTI PUNTE HSS-G DIN 338 FINITURA NERA *HSS-G twist drills DIN 338 black finish assortments*	1	01068553	462,570 €
	01070	PUNTA HSS-G DIN 338 FINITURA BRILLANTE *HSS-G twist drill DIN 338 bright finish*	3	01075550	1.598,340 €
			3	01075551	1.571,670 €
			2	01075552	1.126,460 €
		ASSORTIMENTO PUNTE HSS-G DIN 338 FINITURA BRILLANTE *HSS-G twist drills DIN 338 bright finish assortments*	1	01075553	445,850 €
	01079	PUNTA HSS-G FININURA BRILLANTE ATTACCO HEX 1/4" *HSS-G twist drill DIN 338 bright finish 1/4"" HEX shank*	1	01068554	348,440 €
	01350	PUNTA HSS-G DIN 338 "BASIC" *HSS-G twist drill DIN 338 "BASIC"*	3	01360551	944,430 €
			3	01360552	555,840 €
			2	01360550	945,510 €
	01001	PUNTA HSS DIN 338 - ESECUZIONE RULLATA *HSS twist drill DIN 338 - rolled*	3	01016550	736,370 €
			2	01016551	466,300 €
			1	01016552	235,250 €
			2	01016553	430,180 €
METALLO - FRESE *METAL - HOLE SAW*	21001	FRESA A TAZZA HSS *HSS hole saw*	1	21010550	574,600 €
			2	21010551	1.257,310 €
METALLO - SEGHE BIMETALLICHE *METAL - BIMETAL HOLE SAW*	21060	SEGA A TAZZA BIMETALLICA HSS *HSS bimetal hole saw*	4	21080550	1.179,890 €
			2	21080551	766,730 €
	21090	SEGA A TAZZA BIMETALLICA HSS-CO *HSS-CO bimetal hole saws*	2	21013550	826,650 €
METALLO - MASCHIATURA *METAL - TAPPING*	10001 + 15001	MASCHI A MANO AL C.V. SERIE 3 PZ. + GIRAMASCHIO ESTENSIBILE *C.V. hand taps 3 pcs sirie + adjustable tap wrench*	1	17005550	241,690 €
	12001 + 15030	FILIERE AL C.V. METRICHE M + GIRAFILIERE IN POLLICI *C.V. round dies metric coarse thred + round die stock*	1	17005551	216,490 €
	10162 + 15005	MASCHI A MACCHINA HSS-G DIN 371/B + GIRAMASCHIO GOODEL SC *HSS-G DIN 371/B machine taps + Goodle tap holder*	1	10240550	470,560 €
	10100 + 15001	MASCHI A MANO SERIE 3 PZ + GIRAMASCHIO ESTENSIBILE *Hand taps 3 pcs serie + adjustable tap wrench*	1	17020550	513,810 €
	12066 + 15035	FILIERE HSS-G ø ESTERNO SPECIALE + GIRAFILIERA DIN 225 *HSS-G special outside diameter round dies + round die stock DIN 225*	1	12100550	329,410 €

1	2		3	4	
CATEGORIA MERCEOLOGICA *PRODUCT CATEGORY*	**FAMIGLIA PRODOTTO** *CATEGORY ITEM NUMBER*	**DESCRIZIONE ARTICOLO** *ITEM DESCRIPTION*	**N. MODULI** *N° OF MODULS*	**CODICE MODULO** *MODULS ITEM NUMBER*	**LISTINO €** *PRICE LIST €*
MURO - PUNTE *WALL - DRILL BITS*	03110	PUNTA PER MATERIALI EDILI DURISSIMI "SUPERGRANIT" *Drill bit for extreme hard construction materials "SUPERGRANIT"*	1	03116550	835,580 €
			1	03116551	980,100 €
	03100	PUNTE PER GRANITO "EXTREME HARD CUT" *Drill bits for granite "EXTREME HARD CUT"*	1	03105550	423,820 €
	03072	PUNTA PER CALCESTRUZZO "MAX4" *Drill bits for concrete "MAX4"*	2	03073550	718,130 €
			1	03073551	417,240 €
	03060	PUNTE PER CALCESTRUZZO "SUPERIOR", SERIE CORTA *Drill bits for cncrete "SUPERIOR", short serie*	3	03070550	1.179,310 €
			2	03070551	788,120 €
			1	03070552	413,880 €
	03001	PUNTE PER MURO SERIE CORTA *Drill bits for masonry, short serie*	4	03050550	944,180 €
			3	03050551	750,160 €
			2	03050552	327,910 €
	03076	PUNTE MULTIUSO "MULTIK" *Multipurpose drill bits "MULTIK"*	1	03078550	693,530 €
			1	03078551	539,550 €
			2	03078552	971,570 €
	03089	PUNTE "FORATUTTO" ATTACCO HEX 1/4" *Multipurpose drill bit "FORATUTTO" with HEX 1/4" shank*	1	03085550	328,760 €
MURO - PUNTE SDS *WALL - SDS HAMMER DRILL BITS*	03169	PUNTE SDS-PLUS "HAMMER" 4 TAGLIENTI *SDS-PLUS hammer drill bits "HAMMER" 4 cutting edges*	5	03174550	5.435,870 €
			4	03174551	3.362,210 €
			3	03174552	2.641,470 €
			2	03174553	1.759,210 €
	03156	PUNTE SDS "K8" 4 TAGLIENTI *SDS-PLUS hammer drill bits "K8" 4 cutting edges*	4	03166550	2.091,350 €
			3	03166551	1.531,380 €
			2	03166552	1.015,190 €
	03160	PUNTE SDS-PLUS "K4" 2 TAGLIENTI *SDS-PLUS hammer drill bits "K4" 2 cutting edges*	4	03163550	3.178,450 €
			3	03163551	2.150,720 €
			2	03163552	1.483,730 €
	03155	PUNTE SDS-PLUS "STANDARD" 2 TAGLIENTI *SDS-PLUS hammer drill bits "STANDARD" 2 cutting edges*	4	03165550	1.665,040 €
			3	03165551	973,550 €
			2	03165552	692,480 €
	03170	PUNTE SDS-MAX *SDS-MAX hammer drill bits*	1	03176550	929,870 €
			1	03176551	1.602,890 €
			1	03176552	996,140 €
MURO - FRESE DIAMANTATE E PUNTE VETRO *WALL - DIAMOND DRILL BITS AND GLASS DRILL BITS*	03117	FRESE DIAMANTATE "KERAMASTER" *Diamond drill bits "KERAMASTER"*	1	03120550	528,800 €
			1	03120551	853,390 €
	21104	FRESA DIAMANTATA M14 *Diamond drill bits M14*	1	21103550	925,590 €
	03100 + 03140	PUNTE PER GRANITO "EXTREME" + PUNTE PER VETRO *Drill bits for granite "EXTREME HARD CUT" + glass drill bits*	1	03146550	442,120 €
	03117 + 03140	FRESE DIAMANTATE "KERAMASTER" + PUNTE PER VETRO *Diamond drill bits "KERAMASTER" + glass drill bits*	1	03146551	558,180 €
	03122 + 03140	FRESE DIAMANTATE "KERAMASTER PLUS" + PUNTE PER VETRO *Diamond drill bits "KERAMASTER PLUS" + glass drill bits*	1	03146552	708,090 €

1	2		3	4	
CATEGORIA MERCEOLOGICA *PRODUCT CATEGORY*	**FAMIGLIA PRODOTTO** *CATEGORY ITEM NUMBER*	**DESCRIZIONE ARTICOLO** *ITEM DESCRIPTION*	**N. MODULI** *N° OF MODULS*	**CODICE MODULO** *MODULS ITEM NUMBER*	**LISTINO €** *PRICE LIST €*
MURO - FRESE IMPACT *WALL - IMPACT CORE BITS*	21111	FRESE PERFORATRICI A TAZZA "IMPACT" ATTACCO M22 *Masonry impact core bits "IMPACT" with M22 connection*	1	21116550	1.298,880 €
			1	21116551	1.228,430 €
MURO - SCAPELLI *WALL - CHISELS*	03220 + 03222	SCALPELLI SDS-PLUS ALTA QUALITÀ + SCALPELLI SDS-PLUS STANDARD *High quality SDS-PLUS chisels + standard quality SDS-PLUS chisels*	1	03281550	531,710 €
	03210	SCALPELLI ATTACCO SDS-MAX *High quality SDS-MAX chisels*	1	03281551	723,310 €
	03222 + 03212	SCALPELLO SDS-PLUS STANDARD + SCALPELLO SDS-MAX STANDARD *Standard quality SDS-PLUS chisels + standard quality SDS-MAX chisels*	1	03281552	477,640 €
	03220 + 03210	SCALPELLO SDS-PLUS + SCALPELLO SDS-MAX *High quality SDS-PLUS chisels + high quality SDS-MAX chisels*	1	03281553	735,640 €
LEGNO - PUNTE E MECCHIE *WOOD - DRILL BITS AND WOOD SPADES*	05040 + 05042	PUNTE PER LEGNO SPIRALE SINGOLA TIPO LEWIS L=300 + L=460 mm *Lewis type single helix bits L=300 + L=460 mm*	1	05240550	517,480 €
	05030 + 05033	PUNTE PER LEGNO PER CASSEFORMI L=400 + L=600 mm *Wood working drills for plankings L=400 + L=600 mm*	1	05240551	422,110 €
	05054	PUNTE PER LEGNO A 4 TAGLIENTI CON ATTACCO HEX 1/4" FORM E *Hex 1/4" form E bits for wood working with 4 cutting edges*	1	05055552	504,040 €
	05200	PUNTA PER LEGNO IN HSS *HSS wood working bits*	2	05202550	731,010 €
			1	05202551	485,160 €
	05001	PUNTA PER LEGNO AL C.V. *C.V. wood working drill bits*	2	05010550	332,480 €
	05001 + 05020	PUNTA PER LEGNO AL C.V. + PUNTA PER LEGNO L=245 *C.V. wood working drill bits + C.V. wood working drill bits L=245 mm*	2	05010551	669,110 €
	05001+ 05020 +05026	PUNTA PER LEGNO AL C.V. + PUNTA PER LEGNO S.L. L=245 L=400 *C.V. wood working drill bits + C.V. wood working drill bits L=245 L=400 mm*	2	05010552	608,910 €
	05025	PUNTA PER LEGNO S.L. L=400 mm *C.V. wood working drill bit L=400 mm*	1	05010553	514,230 €
	05045	MECCHIA PIATTA TRE PUNTE SERIE CORTA *Wood spade bits short serie*	1	05055550	472,760 €
			2	05055551	693,370 €
LEGNO - FRESE *WOOD - CENTER BITS*	05063	FRESA TIPO FORSTNER *Wood center bits, Forstner type*	1	05100550	451,090 €
	05063 + 05058	FRESA TIPO FORSTNER + FRESA PER CERNIERA INVISIBILE WS *Wood center bits, Forstner type + wood center bits, invisible type*	1	05100551	437,550 €
	05067	FRESA FORSTNER ALTO RENDIMENTO *Wood center bits , high performance*	1	05100552	520,230 €
	05078	FRESE A TAZZA PER LEGNO DENTI IN METALLO DURO *Carbide tipped hole saws for wood*	2	05079550	1.076,170 €
			1	05079551	499,840 €
LAME PER SEGHETTI ALTERNATIVI *JIG SAW BLADES*	23600 ...	LAME PER SEGHETTI ALTERNATIVI ATTACCO BOSCH PER METALLO, LEGNO E PLASTICA + LAME PER GATTUCCIO ATTACCO SABRE *Jig saw blades Bosch type for metal, wood and plastics + reprocating blades SABRE type*	4	23825550	1.415,260 €
		LAME PER SEGHETTI ALTERNATIVI ATTACCO BOSCH PER METALLO, LEGNO E PLASTICA *Jig saw blades Bosch type for metal, wood and plastics*	2	23825551	487,610 €
		ASSORTIMENTI LAME ATTACCO BOSCH PER METALLO, LEGNO E PLASTICA + LAME PER GATTUCCIO ATTACCO SABRE *Jig saw blades Bosch type for metal, wood and plastics + reprocating blades SABRE type*	2	23825552	704,420 €
LAME PER UTENSILI OSCILLANTI *MULTI FUCTION OSCILLATING TOOLS BLADES*	23510 ...	LAME PER UTENSILI OSCILLANTI ATTACCO QUICK CHANGE E STARLOCK PER METALLO, LEGNO, PLASTICA *Multi fuction oscillating tools blades QUICK CHANGE and STARLOCK type for metal, wood and plastics*	4	23430550	946,670 €

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO
Cutting tools display



60x44x190 cm

La vetrina è in omaggio per ordini di 6 ripiani di utensili a scelta

The display is free of charge in case of an order with 6 shelves with tools at your choice



Composizione
Description

Art. 01195861
€ 2.727,229
82 pcs HSS - G

21001 — Ø 12÷50 + 55 - 60 (2x)

Art. 01195876
€ 4.875,412
82 pcs HSS - Co

21011 — Ø 12÷50 + 55 - 60 (2x)

Art. 01195871
€ 1.363,615
41 pcs HSS - G

21001 — Ø12÷50 + 55 - 60 (1x)

Art. 01195869
€ 1.949,540
41 pcs HSS+TiN

21300 — Ø12÷50 + 55 - 60 (1x)



Composizione
Description

Art. 01195862
€ 3.313,154
82 pcs HSS - G
HSS+TiN

21001 — Ø 12÷50 + 55 - 60 (2x)

21300 — Ø12÷50 + 55 - 60 (1x)



Composizione
Description

Art. 01195860
€ 3.649,638
53 pcs

01180 — Gr. 1 - 2 - 3 - 4 - 5 - 7 - 8 — 1 pcs.

01183 — Gr. 2 - 3 - 4 - 5 - 6 - 9 - 24 — 1 pcs.

01185 — Ø 4.3 - 5.3 - 6.3 - 7.3 - 8.3 9.4 - 10.4 - 12.4 - 15 16.5 - 20.5 - 25 - 28 - 31 — 1 pcs.

0117601 — 5 pcs.

01200 — Gr. 1 - 2 - 3 - 4 — 1 pcs

01230 — Gr. 2 - 3 - 4 - 5 - 6 - 9 - 24 — 1 pcs.

01188 — Gr 1 - 2 - 3 - 4 — 1 pcs.

011750600 — 5 pcs



Composizione
Description

Art. 01195859
€ 2.951,433
53 pcs

01180 — Gr. 1 - 2 - 3 - 4 2 pcs. Gr. 5 - 7 - 8 1 pcs.

01183 — Gr. 2 - 3 - 4 5 - 6 - 9 - 24 2 pcs.

01185 — Ø 4.3 - 5.3 - 6.3 - 7.3 - 8.3 9.4 - 10.4 - 12.4 - 15 16.5 - 20.5 - 25 - 28 - 31 1 pcs.

0117601 — 5 pcs.

01188 — Gr. 1 - 2 - 3 - 4 — 1 pcs.

011750600 — 5 pcs.

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO
Cutting tools display



Composizione
Description

Art. 01195865
€ 1.081,996
72 pcs HSS M3/1


21060

Ø 16 - 17 - 19 - 20 - 21 - 22 - 24 - 25
27 - 29 - 30 - 32 - 33 - 35 - 37 - 38
40 - 41 - 44 - 46 - 48 - 51 - 54
(2x)

Ø 57 - 60 - 64 - 70 - 76 - 79 - 83
89 - 92 - 102
(1x)


210705519 8 pcs.


210705546 8 pcs.



Composizione
Description

Art. 01195879
€ 1.264,457
72 pcs M42 CO 8%


21090

Ø 16 - 17 - 19 - 20 - 21 - 22 - 24 - 25
27 - 29 - 30 - 32 - 33 - 35 - 37 - 38
40 - 41 - 44 - 46 - 48 - 51 - 54
(2x)

Ø 57 - 60 - 64 - 70 - 76 - 79 - 83
89 - 92 - 102
(1x)


210705519B
8 pcs.


210705546B
8 pcs.



Composizione
Description

Art. 01195864
€ 1.682,746
32 pcs T.C.T.


21040

Ø15÷40x1+42 - 45 - 48
50 - 55 - 60



Composizione
Description

Art. 01195880
€ 1.653,623
28 pcs HSS


21200
Weldon

Ø12÷35x1
+38 - 40 - 45 - 50



Composizione
Description

Art. 01195866
€ 1.761,815
32 pcs

21015



Ø 16 - 22 - 25 - 27 - 30 - 35 - 38 - 40
45 - 50 - 55 - 60 - 65 - 70 - 80 (2x)
Ø 85 - 100 (1x)



Composizione
Description

Art. 26008501
€ 913,600
50 pcs HSS Z2+Z3


26001 - 26003

Ø6 - 8 - 10
12 - 15
(5x)



Composizione
Description

Art. 26030502
€ 1.889,815
45 pcs HM4


26020

Ø 6 - 8 - 10
12 - 16
(9x)

Art. 26030504
€ 2.652,319
45 pcs HM4+TiALN


26034

Ø 6 - 8 - 10
12 - 16
(9x)



Art. 21116112
€ 718,029
24 pcs

Composizione
Description


21110
21111

Ø 30 - 35 - 40
50 - 65 - 80
90 - 100


HEX 12
4 pcs.


SDS
4 pcs.

8 pcs

Art. 21116117
€ 1.513,268
29 pcs

Composizione
Description


21122

Ø 40 - 50 - 60
66 - 80 - 90
100


21130316
10 pcs.


21130110
6 pcs.

21130300
3 pcs.

21130305
3 pcs.

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO
Cutting tools display



44x31x52 cm

La vetrina è in omaggio per ordini di 2 ripiani di utensili a scelta

The display is free of charge in case of an order with 2 shelves with tools at your choice



Art. 01195761
€ 1.763,064

59 pcs HSS-G

Composizione
Description


21001 HSS-G Ø15÷37x2 + 38÷50x1



Art. 01195760
€ 2.974,646

45 pcs

Composizione
Description


01180 Gr. 1 - 2 - 3 - 4 - 5 - 7 - 8 1 pcs.


01200 Gr. 1 - 2 - 3 - 4 1 pcs.

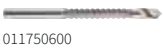

01183 Gr. 2 - 4 - 6 - 9 - 24 1 pcs.


01230 Gr. 2 - 4 - 6 - 9 - 24 1 pcs.


01185 Ø 5.3 - 6.3 - 8.3 - 10.4 12.4 - 15 - 16.5 - 20.5 25 - 28 1 pcs.


01188 Gr 1 - 2 - 3 - 4 1 pcs.


0117601 5 pcs


011750600 5 pcs

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO
Cutting tools display



Composizione
Description

Art. 01195786
€ 1.864,243

38 pcs
HSS+TiN


21300

Ø15÷50+55-60x1



Composizione
Description

Art. 01195764
€ 2.048,700

38 pcs
HSS-G+TiALN


21325

Ø15÷50x1 + 55-60



Composizione
Description

Art. 01195762
€ 2.125,701

38 pcs
T.C.T.


21040

Ø15÷50x1+55-60



Composizione
Description

Art. 01195778
€ 1.179,782

23 pcs
HSS


21200
Weldon

Ø12÷30x1 + 32-35-38-40



Composizione
Description

Art. 01195773
€ 652,540

47 pcs
HSS M3/1


21060

Ø 16 - 19 - 20 - 21 - 22 - 24 - 25 - 27 - 29 - 30 (2x)
Ø 32 - 35 - 37 - 38 - 40 - 41 - 44 48 - 51 - 54 - 57 - 60 - 64 - 70 - 76 (1x)


210705519

6 pcs.


210705546

6 pcs.



Composizione
Description

Art. 01195780
€ 745,883

47 pcs
M42 CO 8%


21090

Ø 16 - 19 - 20 - 21 - 22 - 24 - 25 27 - 29 - 30 (2x)
Ø 32 - 35 - 37 - 38 - 40 - 41 - 44 48 - 51 - 54 - 57 - 60 - 64 - 70 - 76 (1x)


210705519B

6 pcs


210705546B

6 pcs



Art. 01195774
€ 945,793

31 pcs

Composizione
Description


21110
21111

Ø 25 - 30 - 35 - 40 (2x)
50 - 65 (2x)
80 - 90 - 100 (1x)


21115501
2 pcs.


21115521
2 pcs.


21115504
2 pcs.


21115524
2 pcs.


21115506
8 pcs.

TABELLE TECNICHE

TECHNICAL TABLES

SCELTA DELLA PUNTA PER METALLO E DEI PARAMETRI DI TAGLIO DA USARE IN FUNZIONE DEL MATERIALE DA LAVORARE

Chart for metal drills selection and relative cutting speeds in accordance with the materials to work

1



Materiale da lavorare *Work-piece material*	**Qualità punta** *Drill quality*	**Velocità periferica** *Peripherical speed*	**Diametro punta /** *Drill size* **- mm** 2	5	8	12	16	25	**Refrigerante** *Cooland*
			Avanzamento / *Feed (mm/giro)*						
Acciaio non legato da costruzione / *Common steel* R<600N/mm²	HSS HSS-CO	20÷25 25÷30	0.05	0.12	0.20	0.25	0.30	0.40	
Acciaio da costruzione basso legato / *Low alloy steel* R<700÷900N/mm²	HSS HSS-CO	10÷12 15÷18	0.03	0.07	0.10	0.16	0.20	0.25	
Acciaio legato al Ni Cr / *Ni Cr Steel* R<1100÷1300N/mm²	HSS HSS-CO	6÷8 8÷10	0.02	0.05	0.08	0.12	0.14	0.18	
Acciaio inox martensitico e austenitico / *Stainless steel* **Acciaio refrattario Acciaio resistente alla corrosione** *Heat resistant steel, corrosion resistant steel*	HSS-CO 5% HSS-CO 8%	6÷8 8÷10	0.02	0.05	0.08	0.12	0.14	0.18	
Acciaio alto legato con tenore di manganese >10% *High manganese content steel*	HSS-CO 8%	3÷5	0.02	0.05	0.08	0.12	0.14	0.18	
Superleghe / *Nimonic*	HSS-CO 5% HSS-CO 8%	3÷8	0.02	0.05	0.08	0.12	0.14	0.18	
Titanio / *Titanium alloys*	HSS-CO 5% HSS-CO 8%	3÷6	0.02	0.05	0.08	0.12	0.14	0.18	
Nichel / *Monel*	HSS-CO	10÷12	0.02	0.05	0.08	0.12	0.14	0.18	
Ghisa grigia 200 HB / *Cast Iron*	HSS HSS-CO	15÷20 20÷25	0.02	0.12	0.20	0.25	0.30	0.40	
Ghisa grigia 350 HB / *Cast Iron*	HSS HSS-CO	5÷10 20÷25	0.03	0.07	0.10	0.16	0.20	0.25	
Bronzo dolce / *Soft bronze*	HSS HSS-CO	20÷35	0.05	0.08	0.14	0.20	0.25	0.30	
Bronzo duro / *Tough bronze*	HSS HSS-CO	15÷30	0.05	0.08	0.14	0.20	0.25	0.30	
Ottone dolce / *Soft brass*	HSS HSS-CO	60÷80	0.08	0.18	0.25	0.30	0.35	0.40	
Ottone tenace / *Tough brass*	HSS HSS-CO	30÷50	0.05	0.15	0.20	0.25	0.35	0.40	
Rame puro / *Copper*	HSS	30÷60	0.05	0.14	0.18	0.22	0.30	0.40	
Rame elettrolitico / *Electrolite copper*	HSS	20÷35	0.05	0.14	0.18	0.22	0.30	0.40	
Alluminio / *Aluminium*	HSS	40÷80	0.05	0.14	0.18	0.22	0.30	0.40	
Leghe alluminio / *Aluminium alloys*	HSS	30÷60	0.05	0.14	0.18	0.22	0.30	0.40	
Silumin / *Leghe Al-Si Silumin*	HSS	30÷50	0.05	0.08	0.14	0.20	0.25	0.30	
Leghe al manganese / *Manganese alloys*	HSS	60÷90	0.08	0.18	0.25	0.30	0.35	0.40	
Zinco e le sue leghe / *Zinc alloys*	HSS	30÷50	0.05	0.14	0.18	0.20	0.25	0.30	
Resine termoplastiche (dolci) / *Soft plastic*	HSS	20÷40	0.05	0.08	0.14	0.20	0.25	0.30	
Resine termoplastiche (dure) / *Hard plastic*	HSS	10÷20	0.05	0.08	0.14	0.20	0.25	0.30	
Plexiglass	HSS	15÷20	0.05	0.08	0.14	0.20	0.25	0.30	
Gomma dura / *Hard rubber*	HSS	15÷35	0.08	0.18	0.25	0.30	0.35	0.40	
Grafite / *Graphite*	HSS	3÷6	a mano / *by hand*						

Applicazioni
Applications

Acqua emulsionata con olio *Oil+water*

Olio da taglio *Cutting oil*

Acqua *Water*

A secco *Dry*

Nota: Le punte elicoidali cilindriche rettificate garantiscono la realizzazione di fori di tolleranza H10÷H12
Fully ground twist drills made holes with H10÷H12 tolerance

CONVERSIONE DELLA VELOCITÀ PERIFERICA DI TAGLIO DA M/MIN IN GIRI/MIN IN FUNZIONE DEL DIAMETRO DELLA PUNTA

Cutting speed chart into revolution per minute (RPM), according to the twist drill diameter

2

Diametro punta *Drill size*		**Velocità di taglio /** Cutting speed Vt **mt/min**													
		3	4	5	6	8	10	12	15	18	20	25	30	35	40
mm	**pollici inch**	**Velocità di taglio /** Cutting speed													
2	**5/64**	480	640	800	960	1270	1590	1910	2390	2870	3180	3980	4780	5570	6370
3	**1/8**	320	420	530	640	850	1060	1270	1590	1910	2120	2650	3180	3720	4250
4	**5/32**	240	320	400	480	640	800	960	1190	1430	1590	1990	2390	2790	3180
5	**13/64**	190	250	320	380	510	640	760	960	1150	1270	1590	1910	2230	2550
6	**15/64**	160	210	270	320	420	530	640	800	960	1060	1330	1590	1860	2120
8	**5/16**	120	160	200	240	320	400	480	600	720	800	1000	1190	1390	1590
10	**25/64**	95	130	160	190	250	320	380	480	570	640	800	960	1110	1270
12	**15/32**	80	110	130	160	210	270	320	400	480	530	660	800	930	1060
14	**35/64**	70	90	110	140	180	230	270	340	410	450	570	680	800	910
16	**5/8**	60	80	100	120	160	200	240	300	360	400	500	600	700	800
18	**23/32**	55	70	90	110	140	180	210	270	320	350	440	530	620	710
20	**25/32**	50	65	80	100	130	160	190	240	290	320	400	480	560	640
22	**7/8**	45	60	70	85	120	140	170	220	260	290	360	430	510	580
24	**15/16**	40	55	65	80	110	130	160	200	240	270	330	400	460	530
27	**1” 1/16**	35	45	60	70	95	120	140	180	210	240	290	350	410	470
30	**1” 1/8**	30	40	55	65	85	110	130	160	190	210	270	320	370	420
32	**1” 1/4**	30	40	50	60	80	100	120	150	180	200	250	300	350	400
34	**1” 3/8**	30	35	45	55	75	95	110	140	170	190	230	280	330	370
36	**1” 7/16**	25	35	45	55	70	90	110	130	160	180	220	270	310	350
38	**1” 1/2**	25	35	40	50	65	85	100	130	150	170	210	250	290	340
40	**1” 9/16**	25	30	40	50	65	80	100	120	140	160	200	240	280	320
42	**1” 5/8**	25	30	40	45	60	75	90	110	140	150	190	230	270	300
44	**1” 3/4**	20	30	35	45	60	70	85	110	130	140	180	220	250	290
46	**1” 13/16**	20	30	35	40	55	70	85	100	120	140	170	210	240	280
48	**1” 7/8**	20	25	35	40	55	65	80	100	120	130	170	200	230	270
50	**2”**	20	25	30	40	50	65	75	100	110	130	160	190	220	250

$$n° \text{ giri/min (r.p.m.)} = \frac{Vt\ (Mt/min) \times 1000}{3{,}14 \times Ø\ (mm)}$$

Formula di conversione della velocità periferica di taglio da mt/min in n.giri/min in funzione del diametro dell’utensile

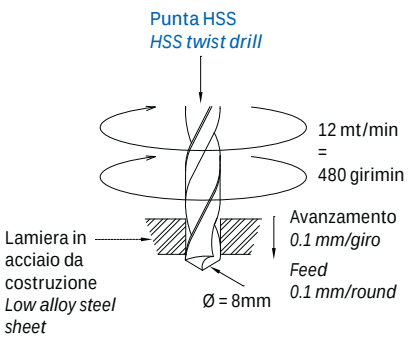
Cutting tip speed conversion formula, from Meter Per Min. to RPM, in accordance with the tool size

Esempio di utilizzo delle tabelle:

Se si vuole praticare un foro del diametro di 8 mm con una punta HSS, in una lamiera in acciaio comune e si desidera conoscere i parametri di taglio adeguati alla foratura, si dovrà consultare la tabella n. 1 nella quale è indicato che una punta HSS da mm 8 avrà un avanzamento consigliato di 0,1 mm/giro ed una velocità di taglio di 10÷12 mt/min. Per la conversione della velocità da mt/min in giri/min, si consulterà la tabella n.2; incrociando la riga riferita al diametro 8 mm con la colonna che contiene la velocità 12 mt/min si troverà il valore di 480 giri/min. Il foro quindi andrà eseguito con una velocità di 480 giri/min e con un avanzamento di 0,1 mm/giro.
Una buona lubrorefrigerazione infine garantirà un ottimo risultato di foratura.

Charts use example:

If you want to make a hole of 8 mm with an HSS bit into a metal sheet and you wish to know the correct cutting parameters, have a look on the chart n.1 where you can see that an HSS bit has a suggested feed of 0,1 mm/revolution and a cutting speed of 10÷12 mt/minute. For the speed conversion mt/min and rpm, please look at the chart n. 2; crossing the line containing the size 8 mm and the column of speed 10÷12 mt/min, you will find the value of 480 rpm .So that the drill should be made with a speed of 480 rpm with 0,1 mm/revolution feed. An appropriate lubricating finally guarantee the best cutting results.



PARAMETRI DI TAGLIO PER PUNTE IN METALLO DURO O CON PLACCHETTE IN METALLO DURO PER IL TAGLIO DEI METALLI

Recommended cutting parameter chart for tungsten carbide drill bits and carbide tipped twist drills on metals cuttings

3



Metallo duro
H.M.

Materiale da lavorare *Work-piece material*	**Resistenza a trazione/durezza** *Tensile strenght/hardness*	**Velocità di taglio** *Cutting speed* **Mt/min.**	**Diametro punta /** *Drill size - mm*						**Refrigerante** *Cooland*
			2	**2,5**	**4**	**5**	**8**	**10**	
			Avanzamento / *Feed (mm/giro)*						
Acciaio basso legato *Low alloy steel*	fino / *up to* 700 N/mm²	80-100	0,025	0,0315	0,05	0,05	0,08	0,1	
Acciaio legato e alto legato *High alloy steel*	fino / *up to* 900 N/mm² oltre / *beyond* 900 N/mm²	70-90 60-70	0,02 0,0125	0,025 0,016	0,04 0,025	0,05 0,025	0,063 0,04	0,08 0,05	
Acciaio per utensili *Tool steel*	fino / *up to* 1000 N/mm² oltre / *beyond* 1000 N/mm²	50-60 20-40	0,0125 0,01	0,016 0,0125	0,025 0,02	0,025 0,025	0,04 0,0315	0,05 0,04	
Acciaio temprato *Tempered steel*	fino / *up to* 60 HRC	10-30	0,0063	0,008	0,0125	0,0125	0,02	0,025	
Acciaio per molle *Spring steel*		20-50	0,01	0,0125	0,02	0,025	0,0315	0,04	
Acciaio austenitico Cr-Ni, Inox, resistente agli acidi e al calore *Austenitic stainless steel, acid resistant steel, heat resistant steel*		20-40	0,008	0,01	0,016	0,02	0,025	0,0315	
Acciaio ferritico, inox, resistente al calore *Ferritic steel, stainless steel, heat resistant steel*		40-60	0,0125	0,016	0,025	0,025	0,04	0,05	
Acciaio duro al Mn *Hard Mn steel*		20-40	0,0063	0,008	0,0125	0,0125	0,02	0,025	
Acciaio fuso *Cast steel*	fino /*up to* 500 N/mm² oltre / *beyond* 500 N/mm²	60-80 30-60	0,025 0,016	0,0315 0,02	0,05 0,0315	0,05 0,0315	0,08 0,05	0,1 0,08	
Acciaio fuso legato / Ghisa in conghiglia *Alloy cast steel / Chilled iron*	fino / *up to* 350 HB oltre / *beyond* 350 HB	40-60 20-40	0,0125 0,0063	0,016 0,008	0,025 0,0125	0,025 0,0125	0,04 0,02	0,05 0,025	
Ghisa grigia *Grey cast iron*	fino / *up to* GG 40	70-100	0,025	0,0315	0,05	0,05	0,08	0,1	
Ghisa sferoidale / Ghisa malleabile *Spheroidal cast iron / Malleable cast iron*	fino / *up to* GGG 60 fino / *up to* GTW / GTS 55	50-80	0,02	0,025	0,04	0,05	0,063	0,08	
Rame *Copper*		80-110	0,02	0,025	0,04	0,05	0,063	0,08	
Bronzo *Bronze*	duro / *hard* tenero / *soft*	60-80 100-120	0,016 0,025	0,02 0,0315	0,0315 0,05	0,0315 0,05	0,05 0,08	0,063 0,1	
Leghe di alluminio fino a 11% Si *Aluminium alloy up to 11% Si*		100-140	0,0135	0,04	0,063	0,063	0,1	0,125	
Leghe di alluminio oltre 11% Si *Aluminium alloy beyond 11% Si*		60-100	0,02	0,025	0,04	0,05	0,063	0,08	
Ottone, Zn, Bronzo per getti *Brass, Zn, Cast bronze*		80-110	0,02	0,025	0,04	0,05	0,063	0,08	
Titanio e le sue leghe *Titanium alloy*		20-40	0,01	0,0125	0,02	0,025	0,0315	0,04	
Leghe di magnesio *Magnesium alloy*		100-150	0,0315	0,04	0,063	0,063	0,1	0,125	
Materie plastiche dure *Hard plastics*		60-100	0,0315	0,04	0,063	0,063	0,1	0,125	
Materie plastiche tenere, laminati, termoplastici *Soft plastics, thermoplastics, laminates*		80-150	0,04	0,05	0,08	0,1	0,125	0,16	
Resine epossidiche rinforzate *Reinforced epoxy resins*		60-100	0,0315	0,04	0,063	0,063	0,1	0,125	

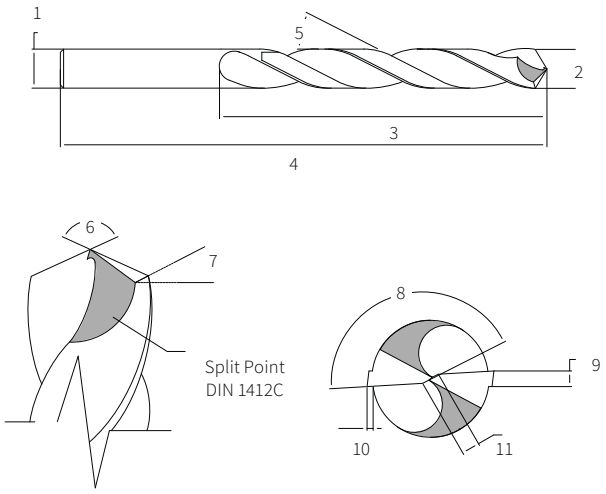
$$\text{n° giri/min (r.p.m.)} = \frac{\text{Vt (Mt/min) x 1000}}{\text{3,14 x Ø (mm)}}$$

Formula di conversione della velocità periferica di taglio da mt/min in n.giri/min in funzione del diametro dell'utensile

Cutting tip speed conversion formula, from Meter Per Min. to RPM, in accordance with the tool size

NOMENCLATURA
PER PUNTE ELICOIDALI CILINDRICHE
Twist drill nomenclature

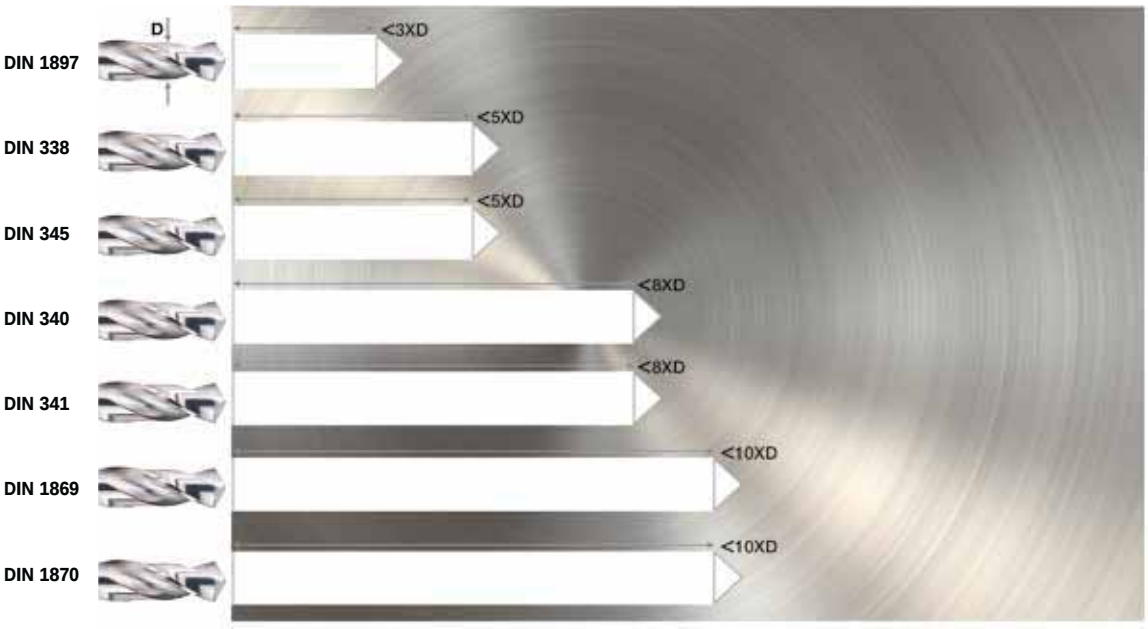
4



1	(d)	Codolo / ***Shank***
2	(Ø)	Diametro / ***Diameter***
3	(l)	Elica / ***Flute***
4	(L)	Lunghezza totale / ***Overall length***
5	(α)	Angolo dell'elica / ***Helix angle***
6		Angolo dei taglienti / ***Point angle***
7		Angolo di spoglia / ***Lip clearance angle***
8		Angolo del tagliente centrale / ***Chisel edge angle***
9		Fase / ***Land***
10		Profondità dello scarico / *Depth of body clearance*
11		Nocciolo / *Web thickness*

PROFONDITÀ DI FORATURA INDICATIVE PER PUNTE ELICOIDALI
Cutting depth according to twist drill standard

5



RELAZIONE TEORICA TRA LA VELOCITÀ DI TAGLIO E LA VITA UTILE DELL'UTENSILE
Theoretical link between the cutting speed and the tool life cycle

6

LEGGE DI TAYLOR

$$Vt \times T^n = C$$

Vt è la velocità di taglio espressa in m/min
T è la vita utile dell'utensile espressa in min / **C** (m/min) e **n** sono costanti che dipendono dalla tipologia di utensile. In particolare, per utensili HSS C=60 m/min e n=0.15, per utensili in metallo duro C=300 m/min e n=0.3

***Vt** is the cutting speed in m/min*
***T** is the tool life cycle in min / C=60 m/min, n=0,15 for HSS cutting tools, C=300 m/min, n=0,3 for hard metal cutting tools.*
***C** (m/min) and **n** are constant values depending on the tool type*

Una punta HSS di diametro 8 mm ha un ciclo di vita teorico di: 2500 h se usata a 400 giri/min - 25 h se usata a 800 giri/min.

HSS twist drill Ø 8 mm has a theorical tool life cycle of 2500h at 400rpm, 25h at 800rpm

VELOCITÀ DI TAGLIO PER FRESE
A INCASSARE, SVASARE E SBAVARE IN FUNZIONE DEL MATERIALE DA LAVORARE
Recommended cutting parameter chart for countersinks and deburring tools in accordance with the materials to work

7



Frese a svasare
Deburring tools

Materiale da lavorare *Work-piece material*	**Velocità di taglio** *Cutting speed* **Mt/min**	**Refrigerante** *Cooland*
Acciaio non legato *Carbon steel*	20	
Acciaio legato fino a 700 N/mm² *Alloy steel up to 700 N/mm²*	15	
Acciaio legato fino a 1000 N/mm² *Alloy steel up to 1000 N/mm²*	10	
Ghisa fino a 250 N/mm² *Cast iron up to 250 N/mm²*	10	
Ghisa oltre 250 N/mm² *Cast iron beyond 250 N/mm²*	8	
Ottone fragile *Fragile brass*	40	
Ottone plastico *Tough brass*	20	
Leghe di alluminio fino a 11% Sì *Aluminium alloys up to 11% Sì*	20	
Materiale termoplastico *Thermoplastics*	15	
Materiale termoindurente *Thermosetting plastics*	10	

PARAMETRI DI TAGLIO PER UTENSILI CONICI IN FUNZIONE DEL MATERIALE DA LAVORARE
Recommended cutting parameter chart for conical drill bits in accordance with the materials to work

8



Utensili conici
Conical drill bits

Materiale da lavorare *Work-piece material*	**Profondità di foratura** *Cutting depth* **mm**	**Grandezza** *Size*								**Refrigerante** *Cooland*
		1	2	3	4	5	6	7	8	
		3÷14	6÷20	16÷30,5	26÷40	36÷50	40÷61	3÷31	3÷22,5	
		Giri/min - *rpm*								
Acciaio inox e alto legato *Stainless steel high alloy steel*	1	750	500	280	200	150	130	400	500	
Acciaio basso legato *Low alloy steel*	2	1100	740	420	300	220	190	580	740	
Ghisa fino a 250 N/mm² *Cast iron up to 250 N/mm²*	3	560	360	200	150	110	100	300	360	
Ghisa oltre 250 N/mm² *Cast iron beyond 250 N/mm²*	3	380	240	140	100	80	60	200	240	
Ottone fragile *Fragile brass*	3	2200	1500	830	600	440	400	1100	1500	
Ottone tenace *Tough brass*	3	1300	860	480	340	260	220	680	860	
Leghe leggere *Light alloys*	5	1100	740	420	300	220	190	580	740	
Plastica *Plastics*	5	1300	860	480	340	260	220	680	860	

PARAMETRI DI TAGLIO PER UTENSILI A GRADINO IN FUNZIONE DEL MATERIALE DA LAVORARE
Recommended cutting parameter chart for step drills in accordance with the materials to work

9



Utensili a gradino
Step drill bits

Materiale da lavorare *Work-piece material*	**Profondità di foratura** *Cutting depth* mm	**Grandezza** *Size*															**Refrigerante** *Cooland*
		1	2	3	4	5	6	7	8	9	10	11	21	22	23	24	
		4÷12	4÷12	12÷20	4÷20	20÷30	4÷30	30÷40	40÷50	6÷36	6÷58	4÷39	6,3÷26,75	6÷30,5	6÷37	6÷38	
		Giri/min - *rpm*															
Acciaio inox e alto legato *Stainless steel high alloy steel*	3÷4	800	800	400	530	250	380	180	140	300	200	300	400	350	300	300	
Acciaio basso legato *Low alloy steel*	3÷4	1200	1200	600	800	380	560	280	200	450	300	450	600	530	450	450	
Ghisa fino a 250 N/mm² *Cast iron up to 250 N/mm²*	3÷4	600	600	300	400	190	280	140	100	230	150	230	300	260	230	230	
Ghisa oltre 250 N/mm² *Cast iron beyond 250 N/mm²*	3÷4	400	400	200	260	130	190	90	70	150	100	150	200	180	150	150	
Ottone fragile *Fragile brass*	3÷4	2400	2400	1200	1600	760	1100	550	420	900	600	900	1200	1000	900	900	
Ottone tenace *Tough brass*	3÷4	1400	1400	700	920	450	650	320	240	530	350	530	700	620	530	530	
Leghe leggere *Light alloys*	3÷4	1200	1200	600	800	380	560	280	200	450	300	450	600	530	450	450	
Plastica *Plastics*	3÷4	1400	1400	700	920	450	650	320	240	530	350	530	700	620	530	530	

VELOCITÀ DI TAGLIO PER FRESE
A INCASSARE, SVASARE E SBAVARE IN FUNZIONE DEL MATERIALE DA LAVORARE
Recommended cutting parameter chart for countersinks and deburring tools in accordance with the materials to work

10



Frese a tazza
Hole cutters

Materiale da lavorare *Work-piece material*	**Ø Fresa /** *Hole cutter* **mm**												**Refrigerante** *Cooland*
	12÷17	18÷24	25÷32	33÷38	39÷44	46÷51	52÷57	58÷64	65÷70	71÷80	81÷90	91÷100	
	n. giri/min - *rpm*												
Acciaio basso legato *Low alloy steel*	550	380	300	240	200	170	150	130	120	110	100	90	
Acciaio inox e alto legato *Stainless steel high alloy steel*	230	160	130	100	80	70	60	60	50	50	40	40	
Ghisa *Cast iron*	280	190	150	120	100	90	80	70	60	60	50	40	
Leghe leggere *Light alloys*	870	590	470	370	310	270	240	210	190	170	150	140	
Alluminio *Aluminium*	870	590	470	370	310	270	240	210	190	170	150	140	
Plastica Plastics	660	450	350	280	240	210	180	160	150	130	120	100	

VELOCITÀ DI TAGLIO PER FRESE A CAROTARE IN FUNZIONE DEL MATERIALE DA LAVORARE
Recommended cutting parameter chart for core bits in accordance with the materials to work

11



Frese a carotare in HSS
HSS Core drills

Materiale da lavorare *Work-piece material*	**ø Fresa /** *Hole cutter* **mm**							**Refrigerante** *Cooland*
	12÷15	16÷20	21÷25	26÷30	31÷35	36÷45	50÷60	
	n. giri/min - *rpm*							
Acciaio basso legato *Low alloy steel*	660	480	370	310	260	200	160	
Acciaio inox e alto legato *Stainless steel high alloy steel*	290	210	170	140	120	90	70	
Ghisa *Cast iron*	340	250	190	160	140	110	80	
Leghe leggere *Light alloys*	1030	740	580	480	410	320	240	

VELOCITÀ DI TAGLIO PER FRESE A CAROTARE CON DENTI IN METALLO DURO
Recommended cutting parameter chart for core bits in accordance with the materials to work

12



Frese a carotare in HM
HM Core drills

Materiale da lavorare *Work-piece material*	**Ø Fresa /** *Hole cutter* **mm**							**Refrigerante** *Cooland*
	12÷15	16÷20	21÷25	26÷30	31÷35	36÷45	50÷60	
	n. giri/min - *rpm*							
Acciaio basso legato *Low alloy steel*	1220	880	690	570	480	380	290	
Acciaio inox e alto legato *Stainless steel high alloy steel*	860	620	480	400	340	270	200	
Ghisa *Cast iron*	980	710	550	450	390	300	230	
Leghe leggere *Light alloys*	1470	1060	380	680	580	450	350	

VELOCITÀ DI TAGLIO PER FRESE A TAZZA TCT IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for TCT hole cutters in accordance with the materials to work

13



Frese a tazza T.C.T.

T.C.T. Hole cutters

Materiale da lavorare *Work-piece material*	**Spessore di foratura** *Cutting depth* **mm**	**Ø Frese TCT /** *TCT hole cutter* **mm** 15÷20	21÷25	26÷30	31÷40	41÷50	51÷70	**Refrigerante** *Cooland*
		n. giri/min - *rpm*						
Acciaio basso legato *Low alloy steel*	4	710	550	450	360	280	210	
Acciaio inox e alto legato *Stainless steel high alloy steel*	2	530	420	340	270	210	160	
Ghisa *Cast iron*	4	620	480	400	320	250	190	
Ottone *Brass*	4	800	620	510	410	320	240	
Alluminio *Aluminium*	4	880	690	570	450	350	270	
Plastica *Plastics*	4	740	580	480	380	300	220	

VELOCITÀ DI TAGLIO PER SEGHE A TAZZA IN FUNZIONE DEL MATERIALE DA LAVORARE

Recommended cutting parameter chart for bimetal hole saws in accordance with the materials to work

14



Seghe a tazza

Bimetal hole saws

Materiale da lavorare *Work-piece material*	**Ø Sega /** *Hole saw* **mm** 14÷17	19÷24	25÷32	33÷38	40÷44	46÷51	52÷57	59÷64	65÷70	73÷79	83÷89	92÷98	102÷108	111÷121	127÷140	146÷152	160÷210	**Refrigerante** *Cooland*
	n. giri/min - *rpm*																	
Ferro / Acciaio dolce *Low alloy steel*	530	360	280	230	190	170	140	130	120	110	90	80	80	70	60	50	40	
Acciai trattati - Acciai inox *Stainless steel - High alloy steel*	210	140	110	90	80	70	60	50	50	40	40	30	30	30	20	20	20	
Ghisa *Cast iron*	250	170	140	110	90	180	70	60	60	50	40	40	40	30	30	30	20	
Ottone *Brass*	740	510	400	320	270	230	200	180	170	150	130	120	110	100	80	70	60	
Alluminio e leghe leggere *Aluminium Light alloys*	850	580	450	360	300	270	230	210	190	170	150	130	120	110	100	80	70	
Legno *Wood*	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	80	
Plastica *Plastics*	640	430	340	270	230	200	170	150	140	130	110	100	90	80	70	60	50	
Cartongesso *Gypsum board*	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	80	

VELOCITÀ DI TAGLIO IN FUNZIONE DEL DIAMETRO DELLA FRESA ROTATIVA IN HSS
Recommended cutting parameter chart for HSS rotary files

15



Z2: Vt 220 ÷ 250 m/min
Z3: Vt 80 ÷ 220 m/min

Frese rotative HSS
HSS rotary files

Diametro fresa *Rotary burr diameter* **mm**	**Velocità di taglio /** *Cutting speed* **Mt/min**							
	80	**100**	**150**	**200**	**220**	**230**	**240**	**250**
	n. giri/min - *rpm*							
6	4250	5310	7960	10620	11680	12210	12740	13270
8	3180	3980	5970	7960	8760	9160	9550	9950
10	2550	3180	4780	6370	7010	7320	7640	7960
12	2120	2650	3980	5310	5840	6100	6370	6630
15	1700	2120	3180	4250	4670	4880	5100	5310

VELOCITÀ DI TAGLIO IN FUNZIONE DEL DIAMETRO DELLA FRESA ROTATIVA IN METALLO DURO
Recommended cutting parameter chart for carbide rotary files

16



Tutti i tipi di taglio / *All cut types*
(HM1,HM3 PLUS, HM3, HM4): Vt 300 ÷ 400 m/min

Frese rotative HM
Bimetal hole saws

Diametro fresa *Rotary burr diameter* **mm**	**Velocità di taglio /** *Cutting speed* **Mt/min**					
	300	**320**	**340**	**360**	**380**	**400**
	n. giri/min - *rpm*					
6	15930	16980	18050	19100	20170	21230
8	11950	12740	13535	14330	15130	15920
10	9550	10190	10830	11465	12100	12740
12	7960	8490	9020	9560	10085	10620
16	5970	6370	6770	7160	7570	7960

PARAMETRI DI TAGLIO DELLA SEGA CIRCOLARE IN HSS
Recommended cutting parameter chart for HSS band saw blades

17



Seghe circolari HSS
HSS circular blades

Materiale da lavorare *Work-piece material*	**Velocità avanzamento** *Feed rate* **mm/min**	**Velocità periferica di taglio** *Cutting speed* **mt/min**	**Refrigerante** *Cooland*
Acciaio con R<500 N/mm² *Steel with R<500 N/mm²*	15÷25	70÷100	
Acciaio con R<800 N/mm² *Steel with R<800 N/mm²*	10÷15	25÷35	
Acciaio con R<1000 N/mm² *Steel with R<1000 N/mm²*	5÷10	30÷40	
Acciaio con R<1400 N/mm² *Steel with R<1400 N/mm²*	5÷7	15÷25	
Acciaio inox *Stainless steel*	5÷7	25÷35	
Ghisa *Cast iron*	10÷15	50÷70	
Alluminio *Aluminium*	20÷40	70÷150	
Ottone e Bronzo *Brass and bronze*	20÷40	70÷150	
Rame *Copper*	20÷40	70÷150	
Plastica *Plastics*	20÷50	100÷200	

PARAMETRI DI TAGLIO DELLA SEGA CIRCOLARE IN METALLO DURO
Recommended cutting parameter chart for carbide band saw blades

18



Seghe circolari H.M.
H.M. circular blades

Materiale da lavorare *Work-piece material*	**Velocità periferica di taglio** *Cutting speed* **(mt/sec.)**	**Velocità di avanzamento** *Feed rate* **(mt/min.)**	**Art 27050**	**Art 27055**	**Art 27060**	**Art 27070**	**Refrigerante** *Cooland*
Legno tenero *Soft wood*	60÷90	10÷40					
Legno duro *Hard wood*	50÷70	10÷30					
Compensato truciolare *Plywood-chipboard*	60÷80	10÷20					
Plastica *Plastics*	25÷60	5÷10					
Alluminio *Aluminium*	20÷30	5÷8					
Ferro, Acciaio dolce *Iron, Steel*	20÷30	5÷8					
Leghe leggere *Light alloys*	20÷30	5÷8					

SCELTA DELLA LAMA E DEI SUOI PARAMETRI DI TAGLIO IN FUNZIONE DEL MATERIALE DA LAVORARE

Chart for blades selection and relative cutting speed in accordance with the materials to work



Lame a nastro
Band saw blades

Materiale da lavorare *Work-piece material*	**Valori DIN**	**M-42 Art 25016**	**M-42 Art 25010**	**M-42 Art 25011**	**ASP Art 25018**	**Velocità di taglio** *Cutting speed* **Mt/min**	**Refrigerante** *Cooland*
Acciai da costruzione *Structurall steels*	St 37 / St 44 St 50 / St 60	■	■	■		80-100 50-70	1:20
Acciai da cementazione *Case-Hardening steels*	C 10 / C 15 14 NiCr14 21 NiCRMo 2 16 MnCr 5	■	■	■		80-100 40-55 50-60 50-60	1:15
Acciai automatici *Free-Machining steels*	9 S20	■	■	■		80-100	1:15
Acciai da bonifica *Heat treating steels*	C 35 / C 40 / C 45 40 Mn 4 36 NiCr 6 2 34 CrNiMo 42 CrMo 4		■	■	■	60-70 60-70 50-65 50-65 50-65	1:10
Acciai per cuscinetti a sfera *Ball bearing tool steels*	100 Cr 6 100 CrMn 6		■	■	■	35-50	1:10
Acciai per molle *Spring steels*	60 Si 7 50 Cr V4		■	■	■	45-60	1:10
Acciai per utensili per lavorazioni a freddo *Cold-working tool steels*	125 Cr 1 X 210 Cr 12 X 155 CrVMo 12 1 100 MnCrW 4 90 MnCrV 8		■	■	■	40-50 20-30 20-30 40-50 30-35	1:30 1:30 1:30 1:30 1:30
Acciai per utensili per lavorazioni a caldo *Hot-working tool steels*	40 CrMnMo 7 X 40 CrMoV 5 1 56 NiCrMoV 7 40 CrMnNiMo 8 6 4		■	■	■	20-25 18-22 25-30 20-25	1:20 1:20 1:20 1:20
Acciai rapidi *High speed steels*	S 6-5-2-5 S 6-5-2 S 3-3-2 S 18-0-1 S 18-1-2-10			■	■	35-45	1:10
Acciai per valvole *Valve steels*	W 45 CrSi 9 3 X 45 CrNiW 18 9			■	■	30-40	1:10
Acciai per alte temperature *Heat resistant steels*	X 20 CrMoV 12 1 X 5 NiCrTi 26 15			■	■	15-25	1:8
Acciai resistenti al calore *Heat resistant steels*	X 10 CrSi 6 X 10 CrAl 18 X 15 CrNiSi 25 30		■		■	15-25	1:8
Acciai inossidabili *Stainless steels*	X 5 CrNi 18 9 X 10 CrNiMoTi 1810	■	■	■	■	30-40	1:8
Acciai legati *Alloyed steels*	1000-1500 N/mm²			■	■	25-35	1:10
Leghe speciali a base di Nichel *Nichel-Base Alloys*	Nimonic Nimonic Hastelloy Hastelloy Incoloy Inconel				■	10-20 10-20 10-20 10-20 10-25 10-25	1:6
Plastiche *Plastics*	Teflon PVC		■	■		100-400	1:50 a secco/*dry*
Bronzo *Bronze*	CuSn 6 G-CuSn 8				■	80-150	1:30
Bronzo Alluminio *Bronze-Aluminium*	CuAl 8 CuAl 8 Fe G-CuAl 10 Fe				■	50-70 35-50 35-50	1:30
Alluminio *Aluminium*	Al-99,5		■	■		80-800	1:30
Ghisa *Cast irons*	G-AlSiCu 4 GG - 15 GG - 30 GTW - 40 GTS - 65 GGG - 50		■	■		50-70	a secco/*dry*
Fusioni d'acciaio *Casting iron*	GS - 38 GS - 60		■	■		40-60	1:30
Ottone *Brass*	CuZn10 CuZn408b 2		■	■		100-600	1:30
Rame *Copper*	Cu 99,0 Cu Be 2		■	■		100-400	1:10
Titanio *Titanium*	Ti 1		■	■	■	10-20	1:10

Consigli
Tips



A = Trucioli sottili e/o spezzettati indicano una pressione di taglio insufficiente
Thin or powdery chips: increase feed pressure

B = Trucioli spessi, compressi e con una colorazione bluastra segnalano un eccessivo carico di lavoro
Heavy thick blue chips: reduce feed rate

C = Trucioli sottili e morbidamente arricciati rilevano un corretto utilizzo dei parametri di taglio
Loosely curled chips: correct feed speed

SCELTA DELLE VELOCITÀ DI TAGLIO DEI MASCHI A MACCHINA, IN FUNZIONE DEL MATERIALE DA FILETTARE

Chart for machine taps selection and relative cutting speed in accordance with the materials to work

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Maschi a macchina
Machine taps

Materiale da lavorare *Work-piece material*	**Velocità periferica di taglio** *Cutting speed* **(mt/sec.)**	**Refrigerante** *Cooland*
Acciaio basso legato *Low alloy steel*	10÷20	
Acciai refrattari, Acciai per utensili *Heat resistant steel, Tool steel*	4÷8	
Acciai R>1200 N/mm² *Steel R>1200N/mm²*	2÷5	
Acciaio inox *Stainless steel*	5÷10	
Leghe speciali *Nimonic, Hastelloy*	2÷4	
Ghisa sferoidale *Spheroidal cast iron*	6÷20	
Ghisa malleabile *Malleable cast iron*	6÷12	
Ottone truciolo corto *Brass short chipping*	20÷30	
Ottone truciolo lungo, Leghe di rame, leghe di zinco *Brass long chipping, Cu alloy, Zn alloy*	10÷15	
Bronzo *Bronze*	6÷15	
Alluminio truciolo corto *Alu Short chipping*	15÷30	
Alluminio truciolo lungo, Leghe di magnesio *Alu long-chipping, Mg alloy*	10÷20	
Titanio *Titanium*	3÷4	
Plastica e materiali termoplastici *Thermoplastics*	5÷15	
Materiali termoindurenti *Thermosetting materials*	5÷10	

Note / ***Notes***: Valido per i fori ciechi e passanti / *Suited for blind and through holes*
Consigli / ***Tips***: *Utilizzare per spessori <1,5 Ø dell'utensile / To be used with thickness < 1,5 Ø of the tool*

SCELTA DEI MASCHI A MACCHINA CON ANELLI COLORATI IN FUNZIONE DEL MATERIALE DA FILETTARE

Chart for colored rings machine taps selection and relative cutting speed in accordance with the materials to work

21

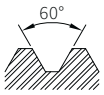


Maschi a macchina
Machine taps

Materiale da lavorare *Work-piece material*	**Velocità di taglio** *Cutting speed* **(m/min.)**	**Refrigerante** *Cooland*	**Art. 10 500**	**Art. 10504**	**Art. 10508**	**Art. 10510**	**Art. 10511**	**Art. 10513**
Acciaio basso legato *Low alloy steel*	10÷20			■				
Acciai refrattari, Acciai per utensili *Heat resistant steel, Tool steel*	4÷8		■	■		■		
Acciai R>1200 N/mm² *Steel R>1200N/mm²*	2÷5					■		
Acciaio inox *Stainless steel*	5÷10		■	■				
Leghe speciali *Nimonic, Hastelloy*	2÷4							
Ghisa sferoidale *Spheroidal cast iron*	6÷20		■		■			
Ghisa malleabile *Malleable cast iron*	6÷12				■			
Ottone truciolo corto *Brass short chipping*	20÷30				■			■
Ottone truciolo lungo, Leghe di rame, leghe di zinco *Brass long chipping, Cu alloy, Zn alloy*	10÷15			■				
Bronzo *Bronze*	6÷15			■	■			
Alluminio truciolo corto *Alu Short chipping*	15÷30		■		■			
Alluminio truciolo lungo, Leghe di magnesio *Alu long-chipping, Mg alloy*	10÷20			■			■	
Titanio *Titanium*	3÷4		■	■				
Plastica e materiali termoplastici *Thermoplastics*	5÷15				■	■		
Materiali termoindurenti *Thermosetting materials*	5÷10				■			

Note / ***Notes***: Valido per i fori ciechi e passanti / Suited for blind and through holes
Consigli / ***Tips***: *Utilizzare per spessori <1,5 Ø dell'utensile / To be used with thickness < 1,5 Ø of the tool*

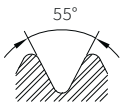
TABELLA DI CONVERSIONE DELLE FILETTATURE A POLLICE IN MISURE METRICHE
Conversion chart from metric to inch threads



M - MF

Metrico
Metric-Inches

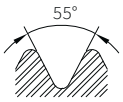
BSW



BSP-BSW-BSF

pollici *inches*	mm	pollici *inches*	mm	pollici *inches*	mm	pollici *inches*	mm
1/16-60	1,59	7/16-14	11,11	1.3/8-6	34,92	3”-3,5	76,20
3/32-48	2,38	1/2-12	12,70	1.1/2-6	38,10	3.1/4-3 1/4	82,55
1/8-40	3,17	9/16-12	14,28	1.5/8-5	41,28	3.1/2-3 1/4	88,90
5/32-32	3,96	5/8-11	15,87	1.3/4-5	44,45	3.3/4-3	95,24
3/16-24	4,76	3/4-10	19,05	1.7/8-4,5	47,63	4”-3	101,60
7/32-24	5,55	7/8-9	22,22	2”-4,5	50,80	4.1/2-2 7/8	114,30
1/4-20	6,35	1”-8	25,40	2.1/4-4	57,15	5”-2 3/4	127,00
5/16-18	7,93	1.1/8-7	28,57	2.1/2-4	63,50	5.1/2-2 5/8	139,70
3/8-16	9,52	1.1/4-7	31,75	2.3/4-3,5	69,85	6” 2,5	152,40

BSP - BSPT

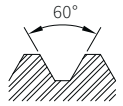


BSPT


1:16

pollici *inches*	mm	dist. di misura per BSPT *dist. of the measure BSPT*	pollici *inches*	mm	dist. di misura per BSPT *dist. of the measure BSPT*	pollici *inches*	mm	dist. di misura per BSPT *dist. of the measure BSPT*
1/8-28	9,72	10,10	1”-11	33,24	26,00	2.1/4-11	65,71	36,10
1/4-19	13,15	15,00	1.1/8-11	37,89	-	2.1/2-11	75,18	37,10
3/8-19	16,66	15,40	1.1/4-11	41,91	28,30	2.3/4-11	81,53	-
1/2-14	20,95	20,50	1.3/8-11	44,32	-	3”-11	87,88	40,20
5/8-14	22,90	20,10	1.1/2-11	47,80	28,30	4”-11	113,03	-
3/4-14	26,44	21,80	1.3/4-11	53,74	30,30	5”-11	138,43	-
7/8-14	30,20	24,45	2”-11	59,61	32,70			

NPT

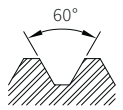


NPT-NPTF


1:16

pollici *inches*	mm	dist. di misura *dist. of the measure*	pollici *inches*	mm	dist. di misura *dist. of the measure*	pollici *inches*	mm	dist. di misura *dist. of the measure*
1/16-27	7,77	9,85	5/8-14	22,71	20,05	1.3/4-11,5	56,04	27,75
1/8-27	10,12	9,85	3/4-14	26,40	21,35	2”-11,5	59,91	32,15
1/4-18	13,46	14,65	1”-11,5	33,05	25,45	2.1/2-8	72,51	36,30
3/8-18	16,90	15,05	1.1/4-11,5	41,80	27,45	3”-8	88,42	39,40
1/2-14	21,06	20,05	1.1/2-11,5	47,87	27,45			

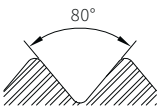
UNC-UNF



UNC-UNF

pollici *inches*	UNC	UNF	mm	pollici *inches*	UNC	UNF	mm	pollici *inches*	UNC	UNF	mm
n.1	64	72	1,85	n.12	24	28	5,48	5/8	11	18	15,87
n.2	56	64	2,18	3/16	24	32	4,76	3/4	10	16	19,05
n.3	48	56	2,51	1/4	20	28	6,35	7/8	9	14	22,22
n.4	40	48	2,84	5/16	18	24	7,93	1”	8	14	25,40
n.5	40	44	3,17	3/8	16	24	9,52	1.1/8	7	12	28,40
n.6	32	40	3,50	7/16	14	20	11,11	1.1/4	7	12	31,75
n.8	32	36	4,16	1/2	13	20	12,70	1.3/8	6	12	34,92
n.10	24	32	4,82	9/16	12	18	14,28	1.1/2	6	12	38,10

PG



Pg

n.	fil. per pollice *threads per inch*	mm	*n.*	fil. per pollice *threads per inch*	mm	*n.*	fil. per pollice *threads per inch*	mm
PG 7	20	12,50	PG 16	18	22,50	PG 42	16	54,00
PG 9	18	15,20	PG 21	16	28,30	PG 48	16	59,30
PG 11	18	18,60	PG 29	16	37,00			
PG 13,5	18	20,40	PG 36	16	47,00			

TABELLA RELATIVA AI PREFORI DI MASCHIATURA
Tapping drill sizes chart

M

M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm
M 1 x 0,25	0,75	M 2,3 x 0,4	1,9	M 7 x 1	6	M 20 x 2,5	17,5	M 45 x 4,5	40,5
M 1,1 x 0,25	0,85	M 2,5 x 0,45	2,05	M 8 x 1,25	6,8	M 22 x 2,5	19,5	M 48 x 5	43
M 1,2 x 0,25	0,95	M 2,6 x 0,45	2,1	M 9 x 1,25	7,8	M 24 x 3	21	M 52 x 5	47
M 1,4 x 0,3	1,1	M 3 x 0,5	2,5	M 10 x 1,5	8,5	M 27 x 3	24		
M 1,6 x 0,35	1,25	M 3,5 x 0,6	2,9	M 11 x 1,5	9,5	M 30 x 3,5	26,5	M 3 x 0,6	2,4
M 1,7 x 0,35	1,3	M 4 x 0,7	3,3	M 12 x 1,75	10,2	M 33 x 3,5	29,5	M 3,5 x 0,75	2,75
M 1,8 x 0,35	1,45	M 4,5 x 0,75	3,7	M 14 x 2	12	M 36 x 4	32	M 4 x 0,75	3,25
M 2 x 0,4	1,6	M 5 x 0,8	4,2	M 16 x 2	14	M 39 x 4	35	M 5 x 0,9	4,1
M 2,2 x 0,45	1,75	M 6 x 1	5	M 18 x 2,5	15,5	M 42 x 4,5	37,5		

MF

MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm
M 3 x 0,35	2,65	M 12 x 1	11	M 20 x 1,5	18,5	M 30 x 1,5	28,5	M 42 x 2	40
M 3,5 x 0,35	3,15	M 12 x 1,25	10,8	M 20 x 2	18	M 30 x 2	28	M 42 x 3	39
M 4 x 0,35	3,65	M 12 x 1,5	10,5	M 22 x 1	21	M 32 x 1,5	30,5	M 45 x 1,5	43,5
M 4 x 0,5	3,5	M 13 x 1	12	M 22 x 1,5	20,5	M 33 x 1,5	31,5	M 45 x 2	43
M 5 x 0,5	4,5	M 13 x 1,5	11,5	M 22 x 2	20	M 33 x 2	31	M 45 x 3	42
M 6 x 0,5	5,5	M 13 x 1,75	11,2	M 24 x 1	23	M 34 x 1,5	32,5	M 48 x 1,5	46,5
M 6 x 0,75	5,2	M 14 x 1	13	M 24 x 1,5	22,5	M 35 x 1,5	33,5	M 48 x 2	46
M 7 x 0,75	6,2	M 14 x 1,25	12,8	M 24 x 2	22	M 36 x 1,5	34,5	M 48 x 3	45
M 8 x 0,5	7,5	M 14 x 1,5	12,5	M 25 x 1	24	M 36 x 2	34	M 50 x 1,5	48,5
M 8 x 0,75	7,2	M 15 x 1	14	M 25 x 1,5	23,5	M 36 x 3	33	M 50 x 2	48
M 8 x 1	7	M 15 x 1,5	13,5	M 26 x 1	25	M 38 x 1,5	36,5	M 50 x 3	47
M 9 x 1	8	M 15 x 2	13	M 26 x 1,5	24,5	M 39 x 1,5	37,5	M 52 x 1,5	50,5
M 10 x 0,5	9,5	M 16 x 1	15	M 27 x 1	26	M 39 x 2	37	M 52 x 2	50
M 10 x 0,75	9,2	M 16 x 1,5	14,5	M 27 x 1,5	25,5	M 39 x 3	36	M 52 x 3	49
M 10 x 1	9	M 18 x 1	17	M 27 x 2	25	M 40 x 1,5	38,5		
M 10 x 1,25	8,8	M 18 x 1,5	16,5	M 28 x 1,5	26,5	M 40 x 2	38		
M 11 x 1	10	M 18 x 2	16	M 28 x 2	26	M 40 x 3	37		
M 12 x 0,75	10,2	M 20 x 1	19	M 30 x 1	29	M 42 x 1,5	40,5		

BSW

BSW	Ø mm	BSW	Ø mm	BSW	Ø mm	BSW	Ø mm	BSW	Ø mm
W 3/32	1,8	W 1/4	5,1	W 9/16	12	W 1.1/8	24,75	W 2”	44,5
W 1/8	2,6	W 5/16	6,5	W 5/8	13,5	W 1.1/4	27,75		
W 5/32	3,1	W 3/8	7,9	W 3/4	16,5	W 1.3/8	30,2		
W 3/16	3,6	W 7/16	9,3	W 7/8	19,25	W 1.1/2	33,5		
W 7/32	4,4	W 1/2	10,5	W 1”	22	W 1.3/4	38,5		

BSF

BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm
BSF 1/4	5,2	BSF 3/8	8,1	BSF 1/2	11	BSF 3/4	16,5	BSF 1”	22,5
BSF 5/16	6,6	BSF 7/16	9,5	BSF 5/8	14	BSF 7/8	19,5		

TABELLA RELATIVA AI PREFORI DI MASCHIATURA
Tapping drill sizes chart

Maschi
Taps

UNC

UNC	Ø mm	UNC	Ø mm	UNC	Ø mm	UNC	Ø mm	UNC	Ø mm
No. 1-64	1,5	No. 10-24	3,9	9/16 - 12	12,2	1.3/8 - 6	30,75	3” - 4	70
No. 2-56	1,8	No. 12-24	4,5	5/8 - 11	13,5	1.1/2 - 6	34	3.1/4 - 4	76,2
No. 3-48	2,1	1/4 - 20	5,2	3/4 - 10	16,5	1.3/4 - 5	39,5	3.1/2 - 4	82,6
No. 4-40	2,3	5/16 - 18	6,6	7/8 - 9	19,5	2” -4,5	51,5		
No. 5-40	2,6	3/8 - 16	8	1” - 8	22,25	2.1/4 - 4,5	51,5		
No. 6-32	2,85	7/16 - 14	9,4	1.1/8 - 7	25	2.1/2 - 4	51,5		
No. 8-32	3,5	1/2 - 13	10,8	1.1/4 - 7	28,25	2.3/4 - 4	63,5		

UNF

UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm
No. 0-80	1,3	No. 5-44	2,7	1/4-20	5,15	9/16-18	12,9	1.1/8-12	26,5
No. 1-72	1,6	No. 6-40	3	5/16-24	6,9	5/8-18	14,5	1.1/4-12	29,5
No. 2-64	1,9	No. 8-36	3,5	3/8-24	8,5	3/4-16	17,5	1.3/8-12	32,5
No. 3-56	2,1	No. 10-32	4,1	7/16-20	9,9	7/8-14	20,25	1.1/2-12	36
No. 4-48	2,4	No. 12-28	4,7	1/2-20	11,5	1”-12	23,25		

BSP

BSP	Ø mm	BSP	Ø mm	BSP	Ø mm	BSP	Ø mm	BSP	Ø mm
G 1/8	8,8	G 5/8	21	G 1.1/8	35,3	G 1.3/4	51,3	G 2.3/4	78,9
G 1/4	11,8	G 3/4	24,5	G 1.1/4	39,3	G 2”	57	G 3”	85,3
G 3/8	15,25	G 7/8	28,25	G 1.3/8	41,7	G 2.1/4	63,1		
G 1/2	19	G 1”	30,75	G 1.1/2	45,2	G 2.1/2	72,6		

BSPT

BSPT	Ø mm	BSPT	Ø mm	BSPT	Ø mm	BSPT	Ø mm	BSPT	Ø mm
1/8-28	8,20	1/2-14	18,00	7/8-14	27,50	1.1/2-11	44,00	3”-11	84,00
1/4-19	11,00	5/8-14	20,25	1”-11	29,50	2”-11	56,00		
3/8-19	14,50	3/4-14	23,50	1.1/4-11	38,50	2.1/2-11	71,00		

NPT

NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm
1/16-27	6,25	3/8-18	14,5	1”-11,5	29	2”-11,5	56
1/8-27	8,5	1/2-14	18	1.1/4-11,5	38	2.1/2-8	67
1/4-18	11,2	3/4-14	23	1.1/2-11,5	44	3”-8	83

PG

PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm
PG 7	11,4	PG 11	17,25	PG 16	21,25	PG 29	35,5	PG 42	52,5
PG 9	14	PG 13,5	19	PG 21	26,9	PG 36	45,5	PG 48	58

TABELLA RELATIVA AI PREFORI DI MASCHIATURA PER MASCHI A RULLARE
Drill size cutting taps chart for forming ta

24

Maschi a rullare
Forming taps

M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm
M 3 x 0,35	2,80	M 5 x 0,5	4,80	M 8 x 1	7,50	M 10 x 1,25	9,40	M 12 x 1,5	11,25
M 4 x 0,5	3,80	M 6 x 0,75	5,60	M 10 x 1	9,50	M 12 x 1,25	11,50	M 14 x 1,5	13,25

TABELLA
PER FILETTATURA ESTERNA
External thread chart

M

M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm
M 1 x 0,25	0,97	M 2,3 x 0,4	2,23	M 4,5 x 0,75	4,41	M 12 x 1,75	11,83	M 33 x 3,5	32,73
M 1,1 x 0,25	1,07	M 2,5 x 0,45	2,43	M 5 x 0,8	4,90	M 14 x 2	13,82	M 36 x 4	35,70
M 1,2 x 0,25	1,17	M 2,6 x 0,45	2,53	M 5 x 0,9	4,89	M 16 x 2	15,82	M 39 x 4	38,70
M 1,4 x 0,3	1,36	M 3 x 0,5	2,92	M 6 x 1	5,88	M 18 x 2,5	17,79	M 42 x 4,5	41,69
M 1,6 x 0,35	1,54	M 3 x 0,6	2,91	M 7 x 1	6,88	M 20 x 2,5	19,79	M 45 x 4,5	41,69
M 1,7 x 0,35	1,64	M 3,5 x 0,6	3,41	M 8 x 1,25	7,87	M 22 x 2,5	21,79	M 48 x 5	47,66
M 1,8 x 0,35	1,74	M 3,5 x 0,75	3,41	M 9 x 1,25	8,87	M 24 x 3	23,77	M 52 x 5	51,66
M 2 x 0,4	1,93	M 4 x 0,7	3,91	M 10 x 1,5	9,85	M 27 x 3	26,77		
M 2,2 x 0,45	2,13	M 4 x 0,75	3,91	M 11 x 1,5	10,85	M 30 x 3,5	29,73		

MF

MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm
M 3 x 0,35	2,94	M 12 x 1	11,88	M 20 x 1,5	19,85	M 30 x 1,5	29,85	M 42 x 2	41,82
M 3,5 x 0,35	3,44	M 12 x 1,25	11,86	M 20 x 2	19,82	M 30 x 2	29,82	M 42 x 3	41,76
M 4 x 0,35	3,94	M 12 x 1,5	11,85	M 22 x 1	21,88	M 32 x 1,5	31,85	M 45 x 1,5	44,85
M 4 x 0,5	3,93	M 13 x 1	12,88	M 22 x 1,5	21,85	M 33 x 1,5	32,85	M 45 x 2	44,82
M 5 x 0,5	4,93	M 13 x 1,5	12,85	M 22 x 2	21,82	M 33 x 2	32,82	M 45 x 3	44,76
M 6 x 0,5	5,93	M 13 x 1,75	12,83	M 24 x 1	23,88	M 34 x 1,5	33,85	M 48 x 1,5	47,85
M 6 x 0,75	5,90	M 14 x 1	13,88	M 24 x 1,5	23,85	M 35 x 1,5	34,85	M 48 x 2	47,82
M 7 x 0,75	6,90	M 14 x 1,25	13,86	M 24 x 2	23,82	M 36 x 1,5	35,85	M 48 x 3	47,46
M 8 x 0,5	7,93	M 14 x 1,5	13,85	M 25 x 1	24,88	M 36 x 2	35,82	M 50 x 1,5	49,85
M 8 x 0,75	7,90	M 15 x 1	14,88	M 25 x 1,5	24,85	M 36 x 3	35,76	M 50 x 2	49,82
M 8 x 1	7,83	M 15 x 1,5	14,85	M 26 x 1	25,88	M 38 x 1,5	37,85	M 50 x 3	49,76
M 9 x 1	8,88	M 15 x 2	14,82	M 26 x 1,5	25,85	M 39 x 1,5	38,85	M 52 x 1,5	51,85
M 10 x 0,5	9,93	M 16 x 1	15,88	M 27 x 1	26,88	M 39 x 2	38,82	M 52 x 2	51,82
M 10 x 0,75	9,90	M 16 x 1,5	15,85	M 27 x 1,5	26,85	M 39 x 3	38,76	M 52 x 3	51,76
M 10 x 1	9,88	M 18 x 1	17,88	M 27 x 2	26,82	M 40 x 1,5	39,85		
M 10 x 1,25	9,86	M 18 x 1,5	17,85	M 28 x 1,5	27,85	M 40 x 2	39,82		
M 11 x 1	10,88	M 18 x 2	17,82	M 28 x 2	27,82	M 40 x 3	39,76		
M 12 x 0,75	11,90	M 20 x 1	19,88	M 30 x 1	29,88	M 42 x 1,5	41,85		

BSW

BSW	Ø mm	BSW	Ø mm	BSW	Ø mm	BSW	Ø mm
W 1/4	6,16	W 7/16	10,89	W 5/8	15,62	W 1”	25,08
W 5/16	7,76	W 1/2	12,43	W 3/4	18,76	W 1.1/8	28,21
W 3/8	9,30	W 9/16	13,92	W 7/8	21,89		

BSF

BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm
BSF 3/16	4,67	BSF 3/8	9,39	BSF 9/16	14,12	BSF 7/8	22,02
BSF 1/4	6,25	BSF 7/16	10,97	BSF 5/8	15,71	BSF 1”	25,17
BSF 5/16	7,82	BSF 1/2	12,54	BSF 3/4	18,85		

UNC

BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm
No. 1-64	1,79	No. 8-32	4,07	7/16-14	10,95	1”-8	25,16	2”-4.5	50,45
No. 2-56	2,12	No. 10-24	4,71	1/2-13	12,52	1.1/8-7	28,31	2.1/4-4.5	56,80
No. 3-48	2,44	No. 12-24	5,37	9/16-12	14,10	1.1/4-7	31,49	2.1/2-4	63,10
No. 4-40	2,76	1/4-20	6,22	5/8-11	15,68	1.3/8-6	34,63	2.3/4-4	69,45
No. 5-40	3,09	5/16-18	7,80	3/4-10	18,84	1.1/2-6	37,81	3”-4	75,80
No. 6-32	3,41	3/8-16	9,37	7/8-9	22	1.3/4-5	44,12		

TABELLA
PER FILETTATURA ESTERNA
External thread chart

Filiere
Dies

UNF

UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm
No. 0-80	1,47	No. 5-44	3,10	1/4-28	6,24	9/16-18	14,14	1.1/8-12	28,38
No. 1-72	1,79	No. 6-40	3,42	5/16-24	7,82	5/8-18	15,73	1.1/4-12	31,56
No. 2-64	2,12	No. 8-36	4,08	3/8-24	9,41	3/4-16	18,89	1.3/8-12	34,73
No. 3-56	2,44	No. 10-32	4,73	7/16-20	10,98	7/8-14	22,05	1.1/2-12	37,91
No. 4-48	2,77	No. 12-28	5,38	1/2-20	12,56	1”-12	25,21		

BSP

BSP	Ø mm	BSP	Ø mm	BSP	Ø mm	BSP	Ø mm	BSP	Ø mm
G 1/8	9,62	G 1/2	20,81	G 7/8	30,06	G 1.1/4	41,73	G 1.3/4	53,56
G 1/4	13,03	G 5/8	22,77	G 1”	33,07	G 1.3/8	44,14	G 2”	59,43
G 3/8	16,53	G 3/4	26,30	G 1.1/8	37,71	G 1.1/2	47,62		

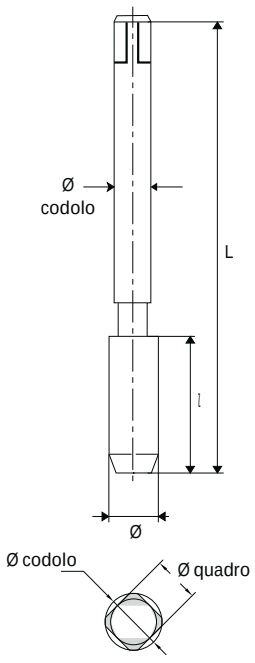
NPT

NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm
1/16	8,17	1/4	14,10	1/2	21,85	1”	34,16	1.1/2	48,87
1/8	10,55	3/8	17,52	3/4	27,16	1.1/4	42,74	2”	60,95

PG

PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm
PG 7	12,4	PG 11	18,5	PG 16	22,4	PG 29	36,85	PG 42	53,85
PG 9	15,1	PG 13,5	20,3	PG 21	28,15	PG 36	46,85	PG 48	59,15

DIMENSIONI TIPICHE DI CODOLO E QUADRO DEI MASCHI, IN FUNZIONE DELLA NORMA DI PRODUZIONE
Dimension of shank and square depending on the applicable standard



Ø Codolo *Shank*	Ø Quadro *Square*	DIN 352	DIN 371	DIN 376	DIN 374	ISO 529
2,5	2,1	M1÷1,8	M1÷1,8	M3,5	M3,5	M1÷2
2,8	2,1	M2÷2,5	M2÷2,5	M4	M4	M2,2÷2,5
3,2	2,4					M3
3,5	2,7	M3	M3	M5	M5	M3,5
4	3	M3,5	M3,5			M4
4,5	3,4	M4	M4	M6	M5,5÷6	M4,5
6	4,9	M5÷8	M5÷6	M8	M8	M6
7	5,5	M10		M10	M9÷10	
8	6,2		M8			M8
9	7	M12		M12	M12	
10	8		M10			M10
11	9	M14		M14	M14	
12	9	M16		M16	M16	
14	11	M18		M18	M18	
16	12	M20		M20	M20	M22
18	14,5	M22÷24		M22÷24	M22÷24	
20	16	M27		M27	M27÷28	M27÷M30
22	18	M30		M30	M30	
25	20	M33		M33	M33	
28	22	M36		M36	M36	
32	24	M39÷42		M39÷42	M39÷42	M50
36	29	M45÷48		M45÷48	M45÷48	
40	32	M52		M52		

DIAMETRO DELLA PUNTA
IN FUNZIONE DELLE DIMENSIONI DEL FILETTO DA RIPRISTINARE
Drill diameter according to thread dimension to be restored

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DIN 8140 - ISO 2/6H



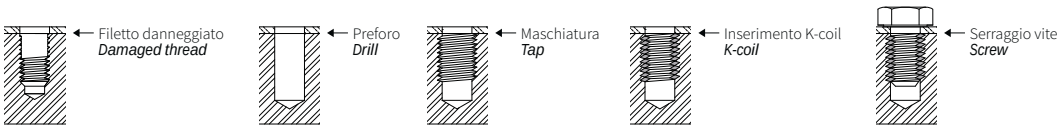
K-COIL

Acciaio inox
austenitico 18/8

Austenitic
stainless steel 18/8

10606 - M/MF

	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm
M	2 x 0,4	2,10	10 x 1,25	10,30	18 x 2,5	18,60	27 x 3	27,75
	2,2 x 0,45	2,30	10 x 1	10,30	18 x 2	18,50	27 x 2	27,50
	2,5 x 0,45	2,60	11 x 1,5	11,40	18 x 1,5	18,50	27 x 1,5	27,50
	3 x 0,5	3,20	12 x 1,75	12,40	20 x 2,5	20,60	28 x 1,5	28,50
	3,5 x 0,6	3,70	12 x 1,5	12,40	20 x 2	20,50	30 x 3,5	31,00
	4 x 0,7	4,20	12 x 1,25	12,30	20 x 1,5	20,50	30 x 2	30,50
	5 x 0,8	5,20	12 x 1	12,30	22 x 2,5	22,60	30 x 1,5	30,50
	6 x 1	6,30	14 x 2	14,50	22 x 2	22,50	33 x 3,5	34,00
	7 x 1	7,30	14 x 1,5	14,40	22 x 1,5	22,50	33 x 2	33,50
	8 x 1,25	8,30	14 x 1,25	14,40	24 x 3	24,75	36 x 4	37,00
	8 x 1	8,30	14 x 1	14,30	24 x 2	24,50	36 x 3	37,00
	9 x 1,25	9,30	16 x 2	16,50	24 x 1,5	24,50	36 x 2	36,50
	10 x 1,5	10,40	16 x 1,5	16,40	26 x 1,5	26,50	36 x 1,5	36,50



10607 - UNC

	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm
N.	8 x 32	4,40	5/16 x 18	8,30	9/16 x 12	14,80	1" x 8	26,25
	10 x 24	5,10	3/8 x 16	9,90	5/8 x 11	16,50	1.1/8 x 7	29,50
	12 x 24	5,70	7/16 x 14	11,60	3/4 x 10	19,75	1.1/4 x 7	33,00
UNC	1/4 x 20	6,70	1/2 x 13	13,00	7/8 x 9	23,00	1.1/2 x 6	39,50

10608 - UNF

	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm
N.	8 x 36	4,40	3/8 x 24	9,80	5/8 x 18	16,25	1.1/8 x 12	29,00
	10 x 32	5,10	7/16 x 20	11,50	3/4 x 16	19,50	1.1/4 x 12	32,50
	1/4 x 28	6,60	1/2 x 20	13,00	7/8 x 14	22,75	1.1/2 x 12	38,50
UNF	5/16 x 24	8,20	9/16 x 18	14,80	1" x 12	26,00		

10609 - BSW

Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm
1/8 x 40	3,40	5/16 x 18	8,30	1/2 x 12	13,00	3/4 x 10	20,00
3/16 x 24	5,10	3/8 x 16	9,90	9/16 x 12	14,80	7/8 x 9	23,00
1/4 x 20	6,70	7/16 x 14	11,60	5/8 x 11	16,70	1" x 8	26,50

10604 - BSF

Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm
3/16 x 32	5,00	3/8 x 20	9,90	9/16 x 16	14,80	7/8 x 11	22,70
1/4 x 26	6,60	7/16 x 18	11,60	5/8 x 14	16,40	1" x 10	26,50
5/16 x 22	8,30	1/2 x 16	13,00	3/4 x 12	19,50		

	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm	Filetto *Thread*	Ø *Drill size* mm
G	1/8 x 28	10,00	3/8 x 19	17,10	5/8 x 14	23,40	7/8 x 14	30,60
	1/4 x 19	13,60	1/2 x 14	21,50	3/4 x 14	27,00	1" x 11	33,70

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI METRICI
Metric wire-thread insert dimensions

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1.5 D

Metric

	Ø Punta per preforo *Ø Drill size* mm	**Ø Coil non installato min** *Ø Coil free min* mm	**Ø Coil non installato max** *Ø Coil free max* mm	**Profondità di foratura min** *Drilling depth* mm	**Profondità di filettatura min** *Threading depth* mm	**Lunghezza nominale Coil installato** *Coil lenght inside its site*
2x0,4	2,1	2,49	2,70	4,80	4,40	3,00
2,2x0,45	2,3	2,76	3,00	5,33	4,88	3,30
2,5x0,45	2,6	3,05	3,70	5,78	5,33	3,75
3x0,5	3,2	3,61	4,35	6,75	6,25	4,50
3,5x0,6	3,7	4,24	4,95	7,95	7,35	5,25
4x0,7	4,2	4,86	5,60	9,15	8,45	6,00
5x0,8	5,2	5,98	6,80	11,10	10,30	7,50
6x1	6,3	7,23	7,95	13,50	12,50	9,00
7x1	7,3	8,22	9,20	15,00	14,00	10,50
8x1,25	8,3	9,53	10,35	17,63	16,38	12,00
8x1	8,3	9,39	10,25	16,50	15,50	12,00
9x1,25	9,4	10,52	11,16	19,13	17,88	13,50
10x1,5	10,4	11,83	12,50	21,75	20,25	15,00
10x1,25	10,3	11,74	12,65	20,63	19,38	15,00
10x1	10,3	11,41	12,50	19,50	18,50	15,00
11x1,5	11,4	12,82	13,59	23,25	21,75	16,50
12x1,75	12,5	14,13	15,00	25,88	24,13	18,00
12x1,5	12,4	14,09	15,20	24,75	23,25	18,00
12x1,25	12,3	13,76	15,00	23,63	22,38	18,00
12x1	12,3	13,43	14,49	22,50	21,50	18,00
14x2	14,5	16,43	17,35	30,00	28,00	21,00
14x1,5	14,4	16,11	17,25	27,75	26,25	21,00
14x1,25	14,3	15,78	17,03	26,63	25,38	21,00
14x1	14,3	15,45	16,68	25,50	24,50	21,00
16x2	16,5	18,41	19,60	33,00	31,00	24,00
16x1,5	16,5	18,13	19,60	30,75	29,25	24,00
18x2,5	18,8	21,04	22,00	38,25	35,75	27,00
18x2	18,5	20,80	21,85	36,00	34,00	27,00
18x1,5	18,5	20,15	21,75	33,75	32,25	27,00
20x2,5	20,8	23,02	24,40	41,25	38,75	30,00
20x2	20,5	22,82	24,05	39,00	37,00	30,00
20x1,5	20,5	22,17	24,00	36,75	35,25	30,00
22x2,5	22,8	25,00	26,90	44,25	41,75	33,00
22x2	22,5	24,84	26,50	42,00	40,00	33,00
22x1,5	22,5	24,19	26,45	39,75	38,25	33,00
24x3	25,0	27,62	29,00	49,50	46,50	36,00
24x2	24,5	26,86	29,10	45,00	43,00	36,00
24x1,5	24,5	26,21	28,28	42,75	41,25	36,00
26x1,5	26,5	28,23	30,46	45,75	44,25	39,00
27x3	28,0	30,59	32,40	54,00	51,00	40,50
27x2	27,5	29,89	32,30	49,50	47,50	40,50
30x3,5	31,0	34,20	35,81	60,75	57,25	45,00
30x2	30,5	32,92	35,70	54,00	52,00	45,00
33x3,5	34,0	37,17	38,80	65,25	61,75	49,50
33x2	33,5	35,95	39,20	58,50	56,50	49,50
36x4	37,0	40,78	42,67	72,00	68,00	54,00
36x3	37,0	40,30	42,70	67,50	64,50	54,00

NUMERO DI SPIRE DEGLI INSERTI FILETTATI METRICI IN FUNZIONE DELLA LUNGHEZZA DELL'INSERTO
Number of turns of the coil depending on the insert length

	N. spire max *N. max*	N. spire max *N. max*	N. spire max *N. max*	N. spire max *N. max*	N. spire max *N. max*	N. spire max *N. max*	N. spire max *N. max*	N. spire max *N. max*	N. spire max *N. max*	N. spire max *N. max*
	1 D		1,5 D		2 D		2,5 D		3 D	
2x0,4	3,3	3,0	5,7	5,2	8,1	7,4	10,5	9,6	13,0	11,8
2,2x0,45	3,2	2,9	5,5	5,0	7,9	7,1	10,3	9,3	12,6	11,2
2,5x0,45	3,8	3,1	6,5	5,2	9,2	7,4	11,9	9,5	14,6	11,9
3x0,5	4,3	3,4	7,2	5,8	10,1	8,2	13,1	10,5	16,0	12,2
3,5x0,6	4,1	3,4	7,0	5,8	9,8	8,2	12,6	10,5	15,5	12,2
4x0,7	4,0	3,4	6,8	5,7	9,6	8,1	12,3	10,5	15,1	12,2
5x0,8	4,5	3,9	7,6	6,5	10,6	9,2	13,7	11,8	16,7	14,6
6x1	4,3	3,8	7,2	6,4	10,1	9,1	13,1	11,7	16,0	14,5
7x1	5,3	4,6	8,7	7,7	12,1	10,7	15,6	13,7	19,0	16,8
8x1,25	4,7	4,2	7,8	7,1	10,9	9,9	14,1	12,8	17,2	15,9
8x1	6,1	5,6	10,0	9,1	13,8	12,5	17,7	16,0	21,5	19,5
9x1,25	5,5	5,1	9,0	8,4	12,5	11,7	16,1	15,0	19,6	18,3
9x1	7,1	6,5	11,5	10,5	15,8	14,5	20,2	18,5	24,5	22,5
10x1,5	4,9	4,6	8,2	7,7	11,5	10,8	14,7	13,8	18,0	16,9
10x1,25	6,1	5,6	10,0	9,2	13,8	12,7	17,7	16,3	21,5	19,8
10x1	8,1	7,3	12,9	11,7	17,8	16,1	22,6	20,5	27,5	24,9
11x1,5	5,6	5,2	9,2	8,6	12,8	12,0	16,4	15,4	20,0	18,7
11x1,25	6,9	6,4	11,2	10,3	15,4	14,2	19,7	18,1	23,9	22,0
11x1	9,1	8,4	14,4	13,3	19,8	18,2	25,1	23,1	30,4	28,0
12x1,75	5,1	4,8	8,5	7,9	11,9	11,1	15,2	14,2	18,6	17,3
12x1,5	6,1	5,6	10,0	9,2	13,8	12,7	17,7	16,2	21,5	19,8
12x1,25	7,7	7,0	12,4	11,2	17,0	15,5	21,6	19,7	26,3	23,9
12x1	10,1	9,3	15,9	14,7	21,7	20,0	27,6	25,4	33,4	30,8
13x1,75	5,7	5,3	9,4	8,7	13,0	12,2	16,7	15,6	20,3	19,0
13x1,5	6,8	6,2	11,0	10,1	15,2	13,9	19,3	17,8	23,5	21,6
13x1,25	8,5	7,8	13,5	12,5	18,6	17,1	23,6	21,7	28,7	26,4
14x2	5,3	5,0	8,7	8,2	12,1	11,4	15,6	14,6	19,0	17,9
14x1,5	7,5	6,9	12,0	11,1	16,5	15,3	21,0	19,4	25,5	23,6
14x1,25	9,3	8,6	14,7	13,6	20,2	18,6	25,6	23,6	31,0	28,6
14x1	12,1	11,1	18,9	17,4	25,7	23,7	32,5	30,0	39,3	36,2
15x2	5,8	5,4	9,5	8,8	13,1	12,3	16,8	15,7	20,5	19,2
15x1,25	8,1	7,5	12,9	11,9	17,8	16,4	22,6	20,8	27,5	25,3
16x2	6,3	5,9	10,2	9,5	14,2	13,2	18,1	16,9	22,0	20,5
16x1,5	8,8	8,0	13,9	12,8	19,1	17,5	24,3	22,3	29,4	27,0
18x2,5	5,5	5,2	9,0	8,6	12,5	11,9	16,1	15,3	19,6	18,6
18x2	7,1	6,7	11,5	10,9	15,8	15,0	20,2	19,1	24,5	23,2
18x1,5	10,1	9,3	15,9	14,6	21,7	20,0	27,6	25,4	33,4	30,7
20x2,5	6,3	5,9	10,2	9,6	14,2	13,3	18,1	16,9	22,0	20,6
20x2	8,1	7,7	12,9	12,2	17,8	16,8	22,6	21,4	27,5	25,9
20x1,5	11,4	10,5	17,9	16,4	24,4	22,4	30,9	28,3	37,4	34,3
22x2,5	7,1	6,5	11,4	10,5	15,8	14,5	20,1	18,5	24,5	22,5
22x2	9,1	8,5	14,4	13,4	19,8	18,4	25,1	23,4	30,4	28,4
22x1,5	12,7	11,6	19,9	18,1	27,0	24,6	34,2	31,1	41,3	37,6
24x3	6,3	5,9	10,2	9,7	14,2	13,4	18,1	17,1	22,0	20,9
24x2	10,1	9,2	15,9	14,6	21,7	19,9	27,6	25,3	33,4	30,6
24x1,5	14,0	12,9	21,8	20,1	29,7	27,3	37,5	34,5	45,3	41,7
26x1,5	15,4	14,2	23,8	22,0	32,3	29,8	40,8	37,6	49,2	45,4
27x3	7,3	6,8	11,7	11,0	16,2	15,2	20,6	19,3	25,1	23,5
27x2	11,6	10,6	18,1	16,7	24,7	22,7	31,3	28,8	37,9	34,8
30x3,5	6,9	6,5	11,1	10,5	15,3	14,5	19,5	18,6	23,8	22,6
30x3	8,1	7,6	12,9	12,2	17,8	16,8	22,6	21,3	27,5	25,9
30x2	13,0	12,0	20,4	18,7	27,7	25,4	35,0	32,1	42,3	38,8
33x3,5	7,7	7,4	12,4	11,8	17,0	16,2	21,7	20,7	26,4	25,1
33x3	9,1	8,5	14,4	13,5	19,8	18,5	25,1	23,6	30,4	28,6
33x2	14,5	13,3	22,6	20,6	30,6	28,0	38,7	35,3	46,8	42,7
36x4	7,3	6,9	11,7	11,2	16,2	15,4	20,6	19,6	25,1	23,8
36x3	10,1	9,5	15,9	14,9	21,7	20,4	27,6	25,9	33,4	31,4
39x4	8,0	7,7	12,9	12,2	17,7	16,8	22,5	21,4	27,3	26,0
42x4,5	7,6	7,3	12,2	11,8	16,8	16,2	21,5	20,7	26,1	25,1
42x3	12,1	11,4	18,9	17,8	25,7	24,2	32,5	30,6	39,3	37,1

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI UNC
UNC wire-thread insert dimensions

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UNC

	Ø Punta per preforo *Ø Drill size* mm	Ø Coil non installato min *Ø Coil free min* mm	Ø Coil non installato max *Ø Coil free max* mm	Profondità di foratura min *Drilling depth* mm	Profondità di filettatura min *Threading depth* mm	Lunghezza nominale Coil installato *Coil lenght inside its site* mm	N. spire del Coil min *N coil min*	N. spire del Coil max *N coil max*
NO. 8 x 32	4,4	5,08	5,59	9,83	9,02	6,25	5,50	6,10
NO.10 x 24	5,1	6,10	6,60	11,99	10,92	7,24	4,60	5,00
NO.12 x 24	5,7	6,86	7,11	12,98	11,94	8,23	5,60	6,00
1/4 x 20	6,7	7,87	8,38	15,24	13,97	9,53	5,30	5,70
5/16 x 18	8,3	9,65	10,16	18,24	16,84	11,91	6,30	6,70
3/8 x 16	9,9	11,43	11,94	21,44	19,84	14,27	6,80	7,20
7/16 x 14	11,6	13,21	13,97	24,82	23,01	16,66	7,00	7,40
1/2 x 13	13,0	14,99	15,75	27,84	25,88	19,05	7,50	8,00
9/16 x 12	15,0	16,76	17,53	30,96	28,83	21,44	7,90	8,40
5/8 x 11	16,5	18,80	19,56	34,21	31,90	23,80	8,10	8,50
3/4 x 10	19,8	22,10	23,11	40,01	37,47	28,58	9,00	9,50
7/8 x 9	23,0	25,65	26,67	46,02	43,21	33,32	9,60	10,00
1' x 8	26,2	29,21	30,48	52,37	49,20	38,10	9,80	10,20
1.1/8 x 7	29,5	33,02	34,54	59,18	55,55	42,85	9,60	10,10
1.1/4 x 7	32,5	36,07	37,59	63,96	60,33	47,63	10,90	11,40
1.1/2 x 6	39,5	43,18	44,96	76,20	71,96	57,15	11,20	11,70

DIMENSIONI TIPICHE DI CODOLO E QUADRO DEI MASCHI, IN FUNZIONE DELLA NORMA DI PRODUZIONE
Dimension of shank and square depending on the applicable standard

31



UNF

	Ø Punta per preforo *Ø Drill size* mm	Ø Coil non installato min *Ø Coil free min* mm	Ø Coil non installato max *Ø Coil free max* mm	Profondità di foratura min *Drilling depth* mm	Profondità di filettatura min *Threading depth* mm	Lunghezza nominale Coil installato *Coil lenght inside its site* mm	N. spire del Coil min *N coil min*	N. spire del Coil max *N coil max*
NO. 8 x 36	4,4	5,08	5,59	9,42	8,71	6,25	6,1	6,9
NO.10 x 32	5,1	5,84	6,60	10,82	10,01	7,24	6,4	7,2
1/4 x 28	6,6	7,62	8,38	13,61	12,70	9,53	7,7	8,5
5/16 x 24	8,2	9,40	10,16	16,66	15,60	11,91	8,5	9,2
3/8 x 24	9,8	10,92	11,94	19,05	17,98	14,27	10,5	11,4
7/16 x 20	11,5	12,95	13,97	22,38	21,11	16,66	10,2	11,1
1/2 x 20	13,0	14,48	15,75	24,77	23,50	19,05	11,9	12,9
9/16 x 18	14,7	16,26	17,53	27,76	26,37	21,44	12,2	13,3
5/8 x 18	16,3	17,78	19,30	30,15	28,75	23,80	13,8	14,9
3/4 x 16	19,5	21,34	22,86	35,71	34,14	28,58	14,7	15,9
7/8 x 14	22,5	24,89	26,67	41,50	39,67	33,32	15,1	16,3
1' x 12	26,0	28,45	30,48	47,63	45,52	38,10	14,8	16
1.1/8 x 12	29,5	31,75	33,78	52,37	50,27	42,85	16,9	18,2
1.1/4 x 12	32,5	34,80	37,34	57,15	55,04	47,63	19	20,4
1.1/2 x 12	38,5	41,15	44,45	66,68	64,57	57,15	23,1	24,9
1.1/2 x 6	39,5	43,18	44,96	76,20	71,96	57,15	11,20	11,70

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI BSW
BSW wire-thread insert dimensions

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BSW

	Ø Punta per preforo *Ø Drill size* **mm**	**Ø Coil non installato min** *Ø Coil free min* **mm**	**Ø Coil non installato max** *Ø Coil free max* **mm**	**Profondità di foratura min** *Drilling depth* **mm**	**Profondità di filettatura min** *Threading depth* **mm**	**Lunghezza nominale Coil installato** *Coil lenght inside its site* **mm**	**N. spire del Coil min** *N coil min*	**N. spire del Coil max** *N coil max*
1/8 x 40	3,4	3,81	4,32	7,62	6,99	4,75	5,1	5,8
3/16 x 24	5,0	5,84	6,60	11,91	10,85	7,14	4,6	5,1
1/4 x 20	6,7	7,87	8,38	15,24	13,97	9,53	5,4	5,9
5/16 x 18	8,3	9,40	10,16	18,24	16,84	11,91	6,4	6,9
3/8 x 16	10,0	11,18	11,94	21,44	19,84	14,27	6,9	7,4
7/16 x 14	11,6	13,21	13,97	24,82	23,01	16,66	7,1	7,6
1/2 x 12	13,0	14,99	16,00	28,58	26,47	19,05	7,0	7,4
9/16 x 12	14,8	16,51	17,53	30,96	28,83	21,44	8,0	8,6
5/8 x 11	16,7	18,29	19,56	34,21	31,90	23,80	8,2	8,7
3/4 x 10	20,0	21,84	22,86	40,01	37,47	28,58	9,2	9,7
7/8 x 9	23,2	25,15	26,67	46,02	43,21	33,32	9,7	10,2
1" x 8	26,5	28,70	30,48	52,37	49,20	38,10	9,9	10,4

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI BSF
BSF wire-thread insert dimensions

33



BSF

	Ø Punta per preforo *Ø Drill size* **mm**	**Ø Coil non installato min** *Ø Coil free min* **mm**	**Ø Coil non installato max** *Ø Coil free max* **mm**	**Profondità di foratura min** *Drilling depth* **mm**	**Profondità di filettatura min** *Threading depth* **mm**	**Lunghezza nominale Coil installato** *Coil lenght inside its site* **mm**	**N. spire del Coil min** *N coil min*	**N. spire del Coil max** *N coil max*
3/16 x 32	5,0	5,84	6,35	10,72	9,91	7,14	6,5	7,2
1/4 x 26	6,6	7,62	8,38	13,92	12,95	9,53	7,1	7,9
5/16 x 22	8,3	9,40	10,16	17,09	15,95	11,91	7,7	8,5
3/8 x 20	9,8	11,18	12,19	19,99	18,72	14,27	8,6	9,4
7/16 x 18	11,6	12,95	14,22	23,01	21,62	16,66	9,1	10,0
1/2 x 16	13,2	14,73	16,00	26,19	24,61	19,05	9,3	10,2
9/16 x 16	14,8	16,26	17,78	28,58	26,97	21,44	10,6	11,7
5/8 x 14	16,3	18,29	19,56	31,98	30,15	23,80	10,4	11,3
3/4 x 12	19,5	21,84	23,37	38,10	35,99	28,58	10,8	11,7
7/8 x 11	22,8	25,15	27,18	43,74	41,43	33,32	11,6	12,6
1" x 10	26,2	28,70	30,99	49,53	46,99	38,10	12,1	13,2

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI BSP
BSP wire-thread specific insert dimensions

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BSP

	Ø Punta per preforo *Ø Drill size* **mm**	**Ø Coil non installato min** *Ø Coil free min* **mm**	**Ø Coil non installato max** *Ø Coil free max* **mm**	**Profondità di foratura min** *Drilling depth* **mm**	**Profondità di filettatura min** *Threading depth* **mm**	**Lunghezza nominale Coil installato** *Coil lenght inside its site* **mm**	**N. spire del Coil min** *N coil min*	**N. spire del Coil max** *N coil max*
1/8 x 28	10,0	10,92	11,94	8,84	7,92	4,75	3,2	3,6
1/4 x 19	13,6	14,99	16,26	15,54	14,20	9,53	5	5,4
3/8 x 19	17,1	18,54	20,07	20,29	18,97	14,27	8,2	8,9
1/2 x 14	21,5	23,37	25,15	27,20	25,40	19,05	8,1	8,8
5/8 x 14	23,4	25,40	27,43	31,95	30,15	23,80	10,4	11,3
3/4 x 14	27,0	28,96	31,24	36,73	34,93	28,58	12,9	13,9
7/8 x 14	30,5	32,77	35,31	41,50	39,67	33,32	15,3	16,5
1" x 11	33,7	36,32	39,12	48,49	46,18	38,10	13,6	14,7

VELOCITÀ DI TAGLIO ESPRESSE IN M/MIN PER ALESATORI IN FUNZIONE DEL MATERIALE DA LAVORARE
Cutting speed chart in m/min for reamers according to the work-piece material

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Alesatori
Reamers

Materiale da lavorare *Work-piece material*	Velocità di taglio *Cutting speed (m/min)*
Acciaio con R<550 MPa *Steel with R<550 MPa*	10÷15
Acciaio con 550<R<850 MPa *Steel with 550<R<850 MPa*	12÷15
Acciaio 850<R<1200 MPa *Steel with 850<R<1200 MPa*	7÷10
Acciaio inox austenitico *Austenitic stainless steel*	6÷8
Acciaio inox ferritico o martensitico *Ferrtici and martensitic stailess steel*	5÷6
Acciaio inox duplex o alto legato *Duplex and high alloy stainless steel*	4÷5
Ghisa nodulare *Nodular cast iron*	9÷11
Ghisa lamellare *Lamellar cast iron*	13÷15
Rame e sue leghe a truciolo lungo *Copper and long chip alloys*	16÷20
Rame e sue leghe a truciolo corto *Copper and short chip alloys*	20÷24
Plastica *Plastics*	11÷13
Polimeri termoindurenti *Thermosetting polymers*	7÷10

Utilizzare valori di avanzamento più elevati rispetto alle operazioni di foratura, perché in alesatura si asporta un minor volume di materiale. Inoltre si utilizzano velocità di taglio inferiori per evitare il surriscaldamento dell'utensile e del pezzo in lavorazione.

Use higher feed rates than drilling operations, because a smaller volume of material is removed in reaming. Furthermore, lower cutting speeds are used to prevent overheating of the tool and the work-piece material.)

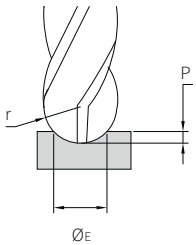
VELOCITÀ DI TAGLIO ESPRESSE IN M/MIN PER FRESE FRONTALI IN FUNZIONE DEL MATERIALE DA LAVORARE
Cutting speed chart in m/min for end mills according to the work-piece material

36



Frese frontali
End mills

Materiale da lavorare *Work-piece material*	Velocità di taglio *Cutting speed (m/min)* **HSS-CO**	Velocità di taglio *Cutting speed (m/min)* **HSS-CO+TiAlN**	Velocità di taglio *Cutting speed (m/min)* **HM**
Acciaio con R<550 MPa *Steel with R<550 MPa*	15÷25	25÷40	40÷80
Acciaio con 550<R<850 MPa *Steel with 550<R<850 MPa*	10÷15	15÷30	30÷45
Acciaio 850<R<1200 MPa *Steel with 850<R<1200 MPa*	12÷20	20÷25	25÷30
Acciaio inox austenitico *Austenitic stainless steel*	12÷15	15÷20	20÷25
Acciaio inox ferritico o martensitico *Ferrtici and martensitic stailess steel*	8÷12	12÷20	20÷22
Acciaio inox duplex o alto legato *Duplex and high alloy stainless steel*	5÷8	8÷10	10÷12
Ghisa nodulare *Nodular cast iron*	20÷30	30÷40	40÷50
Ghisa lamellare *Lamellar cast iron*	15÷20	20÷30	30÷60
Rame e sue leghe a truciolo lungo *Copper and long chip alloys*	50÷100	100÷110	110÷220
Rame e sue leghe a truciolo corto *Copper and short chip alloys*	50÷100	100÷170	170÷300
Plastica *Plastics*	50÷100	100÷170	170÷300
Polimeri termoindurenti *Thermosetting polymers*	20÷30	30÷45	45÷60



$$n° \text{ giri/min (r.p.m.)} = \frac{Vt\ (Mt/min) \times 1000}{3{,}14 \times Ø\ (mm)}$$

Nel caso di frese frontali raggiate usare $Ø_E$ al posto di Ø
When using ball nose end mills please insert $Ø_E$ instead of Ø

$$Ø_E = 2\sqrt{P(2r-P)}$$

Tasso di rimozione del materiale T
Material removing rate T

$$T = \frac{P \times R \times A}{1000} \quad \frac{Cm^3}{min}$$

P Profondità assiale (mm) *Axial depth*
R Profondità radiale (mm) *Radial depth*
A Avanzamento (mm/min) Feed

CARATTERISTICHE DEL RIVESTIMENTO AL TiN
Features of TiN coating

TiN

Il rivestimento monostrato TiN ha lo scopo di incrementare la resistenza a fenomeni di usura e ossidazione cui gli utensili sono sottoposti durante le lavorazioni di foratura: ha ottime caratteristiche di microdurezza (HV 0.05 2300), un basso coeffi ciente di attrito (0.4), una temperatura massima di esercizio pari a 500°C. Il rivestimento di pochi µm, depositato per via fi sica mediante vapore (Physical Vapour Deposition), consente pertanto di aumentare la vita utile degli utensili da taglio, migliorando anche la fi nitura superfi ciale ed il conseguente scorrimento dei trucioli di lavorazione.

TiN monolayer coating can increase both wear and oxidation resistance of every tool. It has high hardness (HV 0.05 2300), low friction coefficient (0.4), maximum working temperature 500°C. The coating thickness is very low (µm) and it's produced by Physical Vapour Deposition. TiN coating increases the life cycle of the tool, also improving the surface finishing and the drilling chips removal.



CARATTERISTICHE DEL RIVESTIMENTO AL TiAlN
Features of TiAlN coating

TiAlN

È un esclusivo rivestimento PVD che permette il taglio a secco con elevatissimi parametri di taglio e, quindi, con grandissimi rendimenti. Sopporta, infatti temperature di lavoro elevatissime, sino a 800° C, grazie alle caratteristiche uniche del rivestimento TiAlN: supercompatto e durissimo (3300 HV 0,05), con conducibilità termica molto bassa (0,05), basso coeffi ciente di attrito (0,3), ottima tenacità. Il forte calore sviluppato nella foratura (> 400° C), genera, in ambiente ossidante, Al2 03, particolarmente resistente alle elevate sollecitazioni termiche, mentre il substrato di TiAlN garantisce una elevata resistenza meccanica. È pertanto adatto al taglio dei materiali fortemente abrasivi (ghisa, leghe Si-Al) degli acciai duri e pastosi come l'acciaio inossidabile, ma anche degli acciai basso legati purché si incrementino notevolmente i 2 parametri di taglio fondamentali: la velocità e l'avanzamento (sino a 2 volte i valori di un utensile HSS convenzionale non rivestito).

This exclusive PVD coating makes dry cutting possible to the highest cutting standards and performance levels. The drill can withstand extremely high working temperatures of up to 800° C on account of the unique properties of the TiAlN coating, namely, it is ultra-thin and exceptionally hard (3300 HV 0,05) with extremely low thermal conductivity (0,05) low friction coefficient (0,3) and excellent toughness. The phenomenal heat created during drilling (>400°C) generates Al2 03, in oxidizing environments which is particularly resilient to high temperatures whilst the substrate in TiAlN guarantee high mechanical resistance. It is thus suitable for cutting highly abrasive materials (cast iron, Si-Al alloys) and hard, pasty steel such as stainless steel. Nonetheless, it is equally suitable for low alloy steel providing the most important cutting settings (speed and feed) are increased by up to twice the values used for conventional, uncoated HSS tools.



CORRISPONDENZA MISURE METRICHE E MISURE IN POLLICI PER PUNTE DA EDILIZIA

Correspondence of metric and inches dimensions for construction tips

Dimensioni in mm *Dimensions (mm)*	**Dimensioni in pollici** Dimensione (inches)
3,5X110	9/64x4
3,5X135	9/64x5
4X110	5/32x4
4X160	5/32x6
5X110	3/16x4
5X160	3/16x6
5X210	13/64x8
5X310	3/16x12
5,5X110	7/32x4
5,5X160	7/32x6
5,5X210	7/32x8
5,5X260	7/32x10
5,5X310	7/32x12
5,5X460	7/32x18
6X110	15/64x4
6X160	15/64x6
6X210	15/64x8
6X260	15/64x10
6X460	15/64x18
6,5X110	1/4x4
6,5X160	1/4x6
6,5X210	1/4x8
6,5X260	1/4x10
6,5X310	1/4x12
7X110	9/32x4
7X160	9/32x6
7X210	9/32x8
8X110	5/16x4
8X160	5/16x6
8X210	5/16x8
8X260	5/16x10
8X310	5/16x12
8X410	5/16x16
8X460	5/16x18
8X610	5/16x24
9X160	11/32x6
9X210	11/32x8
9,5X160	3/8x6
10X1000	3/8x40
10X110	3/8x4
10X160	3/8x6
10X210	3/8x8
10X260	3/8x10
10X310	3/8x12
10X360	3/8x14
10X460	3/8x18
10X610	3/8x24
11X160	7/16x6
11X210	7/16x8
11X260	7/16x10
11X310	7/16x12
12X1000	15/32x40
12X160	15/32x6
12X210	15/32x8
12X260	15/32x10
12X310	15/32x12

Dimensioni in mm *Dimensions (mm)*	**Dimensioni in pollici** *Dimensione (inches)*
12X360	15/32x14
12X460	15/32x18
12X610	15/32x24
13X160	1/2x6
13X210	1/2x8
13X260	1/2x10
13X310	1/2x12
13X460	1/2x18
14X1000	9/16x40
14X160	9/16x6
14X210	9/16x8
14X260	9/16x10
14X310	9/16x12
14X460	9/16x18
14X610	9/16x24
15X160	19/32x6
15X210	19/32x8
15X260	19/32x10
15X460	19/32x18
16X1000	5/8x40
16X160	5/8x6
16X210	5/8x8
16X260	5/8x10
16X310	5/8x12
16X460	5/8x18
16X610	5/8x24
16X800	5/8x32
17X210	11/16x8
18X1000	23/32x40
18X200	23/32x8
18X250	23/32x10
18X300	23/32x12
18X450	23/32x18
18X600	23/32x24
19X200	24/32x8
19X450	24/32x18
20X1000	25/32x40
20X200	25/32x8
20X300	25/32x12
20X450	25/32x18
20X600	25/32x24
22X1000	7/8x40
22X250	7/8x10
22X300	7/8x12
22X450	7/8x18
22X600	7/8x24
24X250	15/16x10
24X450	31/32x18
25X1000	1"x40
25X250	1"x10
25X300	1"x12
25X450	1"x18
26X250	1-1/32x10
26X450	1-1/32x18
28X450	1-1/8x18
30X450	1-3/16x18

VELOCITÀ DI TAGLIO ESPRESSE IN M/MIN PER ALESATORI IN FUNZIONE DEL MATERIALE DA LAVORARE

Cutting speed chart in m/min for reamers according to the work-piece material

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Muro
Masonry

Diametro Punta *Drill size*	3	4	5	6	8	10	12	14	16
Velocità giri/min. *Speed r.p.m.*	2000	1800	1400	1200	900	700	600	500	400

VELOCITÀ DI TAGLIO ESPRESSE IN GIRI AL MINUTO NELL'IMPIEGO DELLE PUNTE UNIVERSALI "FORATUTTO"

Cutting speed chart in RPM for drilling with universal drills

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Foratutto
Multi-Purpose

Materiale da lavorare *Work-piece material*	**Diametro punta /** *Drill size* **(mm)**	
	3÷7	**8÷12**
	Velocità di taglio / ***Cutting speed*** **(r.p.m.)**	
Acciaio duro *Hard steel*	1800÷800	800÷500
Muro, Marmo *Masonry, Marble*	2000÷800	800÷500
Vetro, Ceramica* *Glass, Tiles*	1000÷400	400÷300
Legno, Plastica *Wood, Plastics*	1200÷600	600÷300

*Consigli / *Tips* Velocità più bassa possibile. Lubrificare con trementina / *Lowest speed possible. Use kerosene as lubricant*

VELOCITÀ DI TAGLIO PER FRESE A TAZZA PER EDILIZIA A SOLA ROTAZIONE,IN FUNZIONE DEL MATERIALE DA LAVORARE

Cutting speed chart in RPM for drilling into concrete and bricks on rotation only

40



Frese a tazza con denti in MD
Carbide tipped hole cutters

Materiale da lavorare *Work-piece material*	**Diametro fresa /** *Core bit diameter* **(mm)**			
	16÷35	**38÷55**	**60÷85**	**100÷150**
	Velocità di taglio / *Cutting speed* **(r.p.m.)**			
Calcestruzzo, Muro *Concrete, Masonry*	2800÷1600	1500÷1000	950÷680	580÷380
Ceramica, Marmo *Tiles, Marble*	2500÷1100	1000÷700	650÷450	400÷250
Pietra *Stone*	1800÷800	750÷500	470÷340	300÷200

VELOCITÀ DI TAGLIO PER FRESE A ROTOPERCUSSIONE PER EDILIZIA IN FUNZIONE DEL MATERIALE DA LAVORARE

Chart for percussion core bits selection and relative cutting speed in accordance with the materials to work

41



Rotopercussione
Rotary percussion

Materiale da lavorare *Work-piece material*	**Diametro fresa /** *Core bit diameter* **(mm)**			
	25÷40	**45÷65**	**70÷100**	**110÷130**
	Velocità di taglio / *Cutting speed* **(r.p.m.)**			
Calcestruzzo, Muro *Concrete, Masonry*	2150÷1350	1200÷850	770÷550	500÷400
Cemento armato *Armoured concrete*	1600÷1000	900÷600	550÷400	360÷300
Pietre dure *Hard stone*	760÷470	420÷300	270÷200	170÷150

VELOCITÀ DI TAGLIO PER FRESE A TAZZA CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI
Chart for carbide grit hole saw selection and relative cutting speed

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Frese a tazza con denti rivestiti in grani di carburo di tungsteno
Carbide grit hole saws

Materiale da lavorare *Work-piece material*	**Diametro fresa /** *Core bit diameter* **(mm)**							
	16÷20	**22÷29**	**32÷38**	**44÷51**	**54÷60**	**64÷76**	**83÷95**	**102÷114**
	Velocità di taglio / *Cutting speed* **(r.p.m.)**							
Mattoni, Ceramica *Brick, Ceramic*	500	350	260	190	160	130	100	80
Ardesia Slate	1200	850	650	480	400	320	260	220
Plastica rinforzata *Reinforced plastics*	1700	1200	900	670	570	450	350	300
Fibre *Fiber*	710	510	390	290	250	190	160	125

*Consigli / *Tips*

Assicurare una continua refrigerazione ad acqua
Keep a continuos water cooling

VELOCITÀ DI TAGLIO PER PUNTE E FRESE A TAZZA DIAMANTATE NELLA FORATURA DI PIASTRELLE IN GRES PORCELLANATO
Chart for carbide grit hole saw selection and relative cutting speed for sandware

43

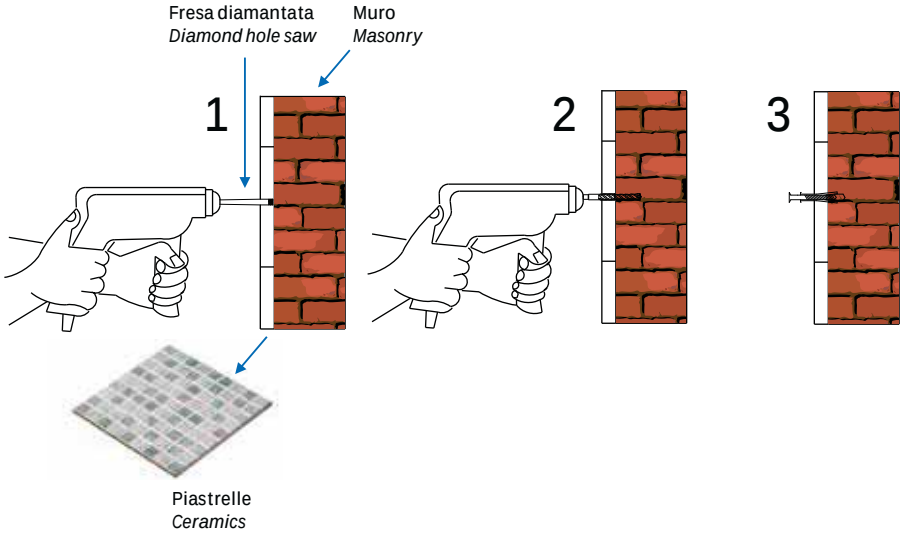


Frese a tazza diamantate
Diamond core drills

Diametro fresa *Core drill diameter*	4÷6	8÷10	12÷16	18÷25	28÷35	40÷50	60÷80
Velocità giri/min. *Speed r.p.m.*	3000	2000	1500	1000	600	400	300

*Consigli / *Tips*

Assicurare una continua refrigerazione ad acqua
Keep a continuos water cooling



VELOCITÀ DI TAGLIO PER PUNTE PER LEGNO NELLA FORATURA DI LEGNI DURI E TENERI
Chart for woodworking drills selection and relative cutting speed into soft and hard wood

44

	Articolo *Item*	**Materiale da lavorare** *Work-piece material*	**Velocità di taglio** *Cutting speed (r.p.m.)*
	Punta per legno con punta guida a centrare *Wood working drills brad point* Art. 05001, 05020, 05025, 05200, 05210, 05212	legno tenero / *soft wood* legno duro / *tough wood*	800÷1400 700÷1200
	Punta elicoidale per legno per casseformi *Wood working drills for plankings* Art. 05030, 05033	legno tenero / *soft wood* legno duro / *tough wood*	700÷1200 600÷1000
	Punta a spirale tipo Lewis *Auger bits, Lewis type* Art. 05035, 05036, 05037, 05038, 05040, 05042, 05044	legno tenero / *soft wood* legno duro / *tough wood*	400÷1200 300÷1000

Consigli / Tips Per articoli professionali, aumentare la velocità di +25%
For professional use, increse cutting speed +25%

VELOCITÀ DI TAGLIO PER UTENSILI PER LEGNO NELLA FORATURA DI LEGNI DURI E TENERI
Chart for woodworking drills selection and relative cutting speed into soft and hard wood

45

	Articolo *Item*	**Materiale da lavorare** *Work-piece material*	**Velocità di taglio** *Cutting speed (r.p.m.)*
	Mecchia piatta *Wood spade bit* Art. 05045, 05048	legno tenero / *soft wood* legno duro / *tough wood*	500-1500 400-1300
	Mecchia regolabile *Expansive wood bit* Art. 050503	legno tenero / *soft wood* legno duro / *tough wood*	400-1300 300-1200
	Frese Forstner in WS *Wood center bits, forstner type (WS)* Art. 05063, 05067	legno tenero / *soft wood* legno duro / *tough wood*	600-2000 500-1700
	Frese Forstner in MD *Wood center bits, forstner type (HM)* Art. 05065	legno tenero / *soft wood* legno duro / *tough wood*	800-2200 700-2000

VELOCITÀ DI TAZZA PER FRESE A TAZZA NELLA FORATURA DI LEGNI DURI E TENERI
Chart for hole saws selection and relative cutting speed into soft and hard wood

46

	Articolo *Item*	**Materiale da lavorare** *Work-piece material*	**Velocità di taglio** *Cutting speed (r.p.m.)*
	Frese a tazza *Hole saws for wood* Art. 05078	legno tenero / *soft wood* legno duro / *tough wood*	300-600 200-500

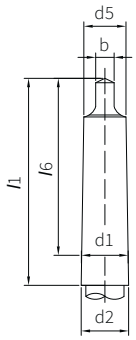
DIMENSIONI CARATTERISTICHE DEI CONI MORSE IN ACCORDO ALLA NORMA DIN 228

Chart for carbide grit hole saw selection and relative cutting speed

47

Coni morse

Morse taper



Cono Morse	l 1 mm	l 6 mm	d1 mm	d5 mm	b mm	d2 mm	Conicità %
0	59,5	56,5	9,045	6,1	3,9	9,2	5,205
1	65,5	62,0	12,065	9,0	5,2	12,2	4,988
2	80,0	75,0	17,780	14,0	6,3	18,0	4,995
3	99,0	94,0	23,825	19,1	7,9	24,1	5,020
4	124,0	117,5	31,267	25,2	11,9	31,6	5,194
5	156,0	149,5	44,339	36,5	15,9	44,7	5,263
6	218,0	210,0	63,348	52,4	19,0	63,8	5,214

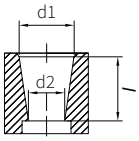
DIMENSIONI CARATTERISTICHE DEI CONI DI ATTACCO DEI MANDRINI IN ACCORDO ALLE NORME DIN 238 E JACOBS®

Taper drill chucks dimensions in accordance with the DIN 238 standards and Jacobs®

48

Coni di attacco dei mandrini

Taper drill chuck shank



Tipo di norma	Cono del mandrino	d1 mm	d2 mm	l mm
DIN 238	B6	6,35	5,85	10,0
	B10	10,094	9,4	14,5
	B12	12,065	11,1	18,5
	B16	15,733	14,5	24,0
	B18	17,780	16,2	32,0
	B22	21,793	19,8	40,5
	B24	23,825	21,3	50,5
JACOBS	J0	6,350	5,803	11,11
	J1	9,754	8,468	16,67
	J2	14,2	12,39	22,23
	J2 corto	13,94	12,39	19,05
	J33	15,85	14,24	25,4
	J6	17,17	15,85	25,4
	J3	20,6	18,95	30,96
	J4	28,55	26,35	42,07

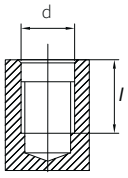
DIMENSIONI CARATTERISTICHE DEGLI ATTACCHI FILETTATI DEI MANDRINI

Thread drill chucks dimensions

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Attacchi filettati dei mandrini

Threaded drill chuck shank



Tipo	Classe	d mm	Passo mm	l mm
3/8” x 24 UNF	3B	9,525	1,058	14,5
1/2” x 20 UNF	3B	12,700	1,270	16,0
5/8” x 16 UNF	3B	15,875	1,588	19,0
3/4” x 16 UNF	3B	19,050	1,588	19,0
M14 x 2	MA	14,00	2,00	19,0
M18 x 2.5	MA	18,00	2,50	19,0

Gradi di tolleranza Tolerance grade	Diametro dell'utensile (mm) / Tool diameter (mm)					
	0÷3	**3÷6**	**6÷10**	**10÷18**	**18÷30**	**30÷50**
h8 (toll. costruttiva delle punte per metallo in acciaio superrapido rettificate) *Production tolerance of hss ground twist drills*	0 -0,014	0 -0,018	0 -0,022	0 -0,027	0 -0,027	0 -0,039
H10 (toll. minima sul foro creato dalle punte per metallo rettificate) *Minimum tolerance of the hole made by ground twist drills*	+0,040 0	+0,048 0	+0,058 0	+0,070 0	+0,070 0	+0,100 0
H12 (toll. massima sul foro creato dalle punte per metallo rettificate) *Maximum tolerance of the hole made by ground twist drills*	+0,100 0	+0,120 0	+0,150 0	+0,180 0	+0,180 0	+0,250 0
h7 (toll. costruttiva delle punte in metallo duro) *Production tolerance of carbide twist drills*	0 -0,010	0 -0,012	0 -0,015	0 -0,018	0 -0,018	0 -0,025
h10 (toll. costruttiva di svasatori e frese frontali in metallo duro) *Production tolerance of carbide end mills and deburring tools*	0 -0,040	0 -0,048	0 -0,058	0 -0,070	0 -0,070	0 -0,100
G6 (toll. sul filetto creato dai maschi sovradimensionati in acciaio superrapido) Production tolerance of the thread made by hss oversized taps	+0,008 +0,002	+0,012 +0,004	+0,014 +0,005	+0,017 +0,006	+0,017 +0,006	+0,025 +0,009
G7 (toll. sul filetto creato dai maschi sovradimensionati in acciaio superrapido) *Production tolerance of the thread made by hss oversized taps*	+0,012 +0,002	+0,016 +0,004	+0,020 +0,005	+0,024 +0,006	+0,024 +0,006	+0,034 +0,009
H7 (toll. sul foro creato dagli alesatori) *Tolerance of the hole made by the reamers*	+0,010 0	+0,012 0	+0,015 0	+0,018 0	+0,018 0	+0,025 0
e8 (toll. costruttiva delle frese frontali in acciaio superrapido) *Production tolerance of hss end mills*	-0,014 -0,028	-0,020 -0,038	-0,025 -0,047	-0,032 -0,059	-0,032 -0,059	-0,050 -0,089
k10 (toll. costruttiva delle frese frontali in acciaio superrapido) *Production tolerance of hss end mills*	+0,040 0	+0,048 0	+0,058 0	+0,070 0	+0,070 0	+0,100 0
k12 (toll. costruttiva delle frese frontali in acciaio superrapido) *Production tolerance of hss end mills*	+0,100 0	+0,120 0	+0,150 0	+0,180 0	+0,180 0	+0,250 0

Nota: I gradi di tolleranza IT5÷IT13 sono idonei agli usuali accoppiamenti meccanici

Note: IT5÷IT13 tolerance range are suitable for the common mechanical coupling

TABELLA DI CONVERSIONE DELLE DUREZZE (ROCKWELL E VICKERS) E DI COMPARAZIONE CON I VALORI DI RESISTENZA A TRAZIONE
Hardness (Rockwell and Vickers) and traction resistance conversion chart

HV *Vickers hardness*	**HRC** *Rockwell hardness*	**Carico di resistenza** *Tensile strength Carbon steel (N/mm²)*	**Carico di resistenza** *Tensile strength Stainless steel (N/mm²)*
940	68		
920	67,5		
900	67	2521	2374
880	66,4		
864	66		
860	65,9		
840	65,3		
829	65	2413	2276
820	64,7		
800	64		
782	63,5		
780	63,3		
773	63	2305	2178
760	62,5		
745	62		
740	61,8		
737	61,7	2217	2089
720	61		
700	60,1		
698	60		
690	59,7	2119	2001
680	59,2		
675	59		
670	58,8		
667	58,7		
660	58,3		
655	58	2040	1923
650	57,8		
639	57		

HV *Vickers hardness*	**HRC** *Rockwell hardness*	**Carico di resistenza** *Tensile strength Carbon steel (N/mm²)*	**Carico di resistenza** *Tensile strength Stainless steel (N/mm²)*
630	56,8		
620	56,3		
615	56	1962	1854
610	55,7		
600	55,2		
596	55		
590	54,7	1883	1785
580	54,1		
570	53,6		
569	53,5		
560	53	1815	1707
550	52,3		
547	52,1		
544	52		
540	51,7		
530	51,1		
528	51	1746	1648
520	50,5		
510	49,8		
508	49,6		
500	49,1		
491	48,5	1628	1540
490	48,4		
480	47,7		
472	47,1	1560	1481
470	46,9		
460	46,1		
455	45,7	1511	1432
450	45,3		

Nota: la durezza è la misura della resistenza di un materiale alla deformazione plastica. Si misura valutando l'area dell'impronta che lascia un penetratore sottoposto a un carico specifico. Il penetratore è una piramide di diamante con angolo al vertice di 136° per la durezza Vickers, mentre è un cono di diamante con angolo al vertice di 120° per la durezza Rockwell.

Note: hardness is the measure of material strenght to plastic deformation. Push the indenter against the material at a certain load and measure the impression area to find the hardness value. The indenter can be a diamond pyramid with 136° angle at the top for Vickers hardness test or it can be a diamond cone with 120° angle at the top for Rockwell hardness test.

SCALA MOHS DI DUREZZA
Mohs hardness scale

Valore di durezza *Mohs value*	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
Materiali *Materials*	Talco *Talc*	Gesso *Gypsum*	Calcite *Calcite*	Fluorite *Fluorite*	Apatite *Apatite*	Ortoclasio *Orthoclase*	Quarzo *Quartz*	Topazio *Topaz*	Corindone *Corundum*	Diamante *Diamond*

GUIDA ALLA RISOLUZIONE DEI PROBLEMI

TROUBLESHOOTING GUIDE

GUIDA ALLA RISOLUZIONE DEI PROBLEMI DI LAVORAZIONE DEI METALLI
Metalworking troubleshooting guide

Immagine del difetto / *Photo of the defect*



Utensile a gradino
Step drill

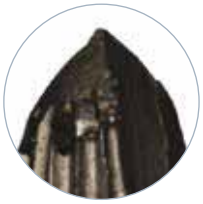
Descrizione del difetto
Description of the defect
Incollaggio dei trucioli sui taglienti di un utensile a gradino.

Swarf sticks to the cutting edge of a graduated drill bit.

Possibili soluzioni del problema
Possible solutions to the problem
Verificare la correttezza dei parametri di taglio in funzione del diametro dell'utensile e del materiale in lavorazione.

Check the cutting parameters are set to the correct tool diameter for the material being worked.

Immagine del difetto / *Photo of the defect*



Utensile conico
Conical drill bit

Descrizione del difetto
Description of the defect
Incollaggio dei trucioli sui taglienti di un utensile conico.

Swarf sticks to the cutting edge of a conical drill bit.

Possibili soluzioni del problema
Possible solutions to the problem
Verificare la correttezza dei parametri di taglio in funzione del diametro dell'utensile e del materiale in lavorazione.

Check the cutting parameters are set to the correct tool diameter for the material being worked.

Immagine del difetto / *Photo of the defect*



Punta a centrare
Pilot drill

Descrizione del difetto
Description of the defect
Incollaggio dei trucioli sui taglienti di una punta a centrare per frese a tazza.

Swarf sticks to the cutting edge of the centring bit for a hole saw.

Possibili soluzioni del problema
Possible solutions to the problem
Verificare la correttezza dei parametri di taglio in funzione del diametro dell'utensile e del materiale in lavorazione.

Check the cutting parameters are set to the correct tool diameter for the material being worked.

Immagine del difetto / *Photo of the defect*



Sega bimetallica
Bimetal hole saw

Descrizione del difetto
Description of the defect
Striscimento dell'albero all'interno dell'attacco filettato della sega bimetallica.

Slipping of the shaft inside the threaded connector of the bimetal saw.

Possibili soluzioni del problema
Possible solutions to the problem
Assicurarsi del corretto inserimento dei perni di fissaggio dell'albero nelle sedi apposite sul fondo della tazza bimetallica.

Make sure the fastening pins of the shaft are inserted into the bottom of the bimetal cutting disc correctly.

Immagine del difetto / *Photo of the defect*



Albero
Arbor

Descrizione del difetto
Description of the defect
Strisciamento del codolo di un albero per frese nel mandrino.

Slipping of the shaft of the drill bit in the chuck.

Possibili soluzioni del problema
Possible solutions to the problem
Possibile problema di serraggio delle griffe del mandrino. Verificare inoltre lo stato di affilatura dell'utensile: nel caso di usura e conseguente scarsa capacità tagliente, l'utensile tende a bloccarsi nel pezzo in lavorazione e il codolo tende a strisciare nel madrino. In questo caso non insistere nel taglio ma passare alla riaffilatura dell'utensile.

The problem could be caused by clamping of the chuck jaws. Check the sharpness of the tools. In case they are worn and cut less efficiently, the tool can get stuck in the workpiece and the cutting tool may slip in the chuck. In this case do not proceed with cutting any further and sharpen the tool.

Immagine del difetto / *Photo of the defect*



Fresa a carotare
Core bit

Descrizione del difetto
Description of the defect
Usura / bruciatura della parte esterna del tagliente di una fresa a carotare.

Wearing / burning of the external part of the cutting edge of a hollow hole cutter.

Possibili soluzioni del problema
Possible solutions to the problem
Verificare la correttezza dei parametri di taglio in funzione del diametro dell'utensile e del materiale in lavorazione. Si tenga conto che la parte esterna dei taglienti è soggetta a usura precoce rispetto alla parte centrale.

Check the cutting parameters are set to the correct tool diameter for the material being worked. Bear in mind that the external part of the cutter wears out more quickly that the central part.

Immagine del difetto / *Photo of the defect*



Sega bimetallica
Bimetal hole saw

Descrizione del difetto
Description of the defect
Arrotondamento dei denti della sega bimetallica.

Rounding of the teeth of a bimetal saw.

Possibili soluzioni del problema
Possible solutions to the problem
L'usura prematura delle creste dei denti è giustificata dall'utilizzo della sega bimetallica nella lavorazione di materiali abrasivi per cui non è idonea. Preferire altre tipologie di utensili più adatti all'applicazione specifica.

Premature wear and tear of the points of the teeth are due to the saw being used on inappropriate, abrasive materials. Use a more suitable tool for the job in question.

Immagine del difetto / *Photo of the defect*



Sega bimetallica
Bimetal hole saw

Descrizione del difetto
Description of the defect
Usura dei denti della sega bimetallica.

Wear-and-tear of the bimetal saw.

Possibili soluzioni del problema
Possible solutions to the problem
La velocità di rotazione del prodotto è eccessiva. Attenersi scrupolosamente alle indicazioni fornite dalle tabelle tecniche.

Decrease the threading and/or advancement speed. The rotation speed of the product is too fast. Always refer to the instructions provided in the technical tables.

Immagine del difetto / *Photo of the defect*



Tazza TCT
TCT hole saw

Descrizione del difetto
Description of the defect
Rottura di un dente in metallo duro saldabrasato al corpo dell'utensile.

Breakage of a hard metal tooth that has fused to the body of the tool.

Possibili soluzioni del problema
Possible solutions to the problem
Il dente in metallo duro è estremamente sensibile agli urti: evitare qualsiasi colpo accidentale durante la foratura ed evitare tagli discontinui. Eventualmente preferire altre tipologie di utensili con denti in acciaio superrapido.

The hard metal tooth is extremely sensitive to sudden shocks. Avoid accidental shocks during drilling and discontinuous cuts. If necessary, use another type of tool with super-rapid steel teeth.

GUIDA ALLA RISOLUZIONE DEI PROBLEMI DI FILETTATURA
Threading troubleshooting guide

Immagine del difetto / *Photo of the defect*



Maschio
Tap

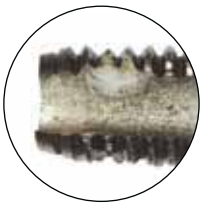
Descrizione del difetto
Description of the defect
Intasamento dei residui di lavorazione di maschiatura nelle scanalature.

Clogging of grooves with residues from the tapping process.

Possibili soluzioni del problema
Possible solutions to the problem
Utilizzare un lubrorefrigerante più fluido (meno viscoso) oppure aumentarne il flusso.

Use more fluid coolant (less viscous) or increase the flow.

Immagine del difetto / *Photo of the defect*



Maschio
Tap

Descrizione del difetto
Description of the defect
Caterizzazione del maschio (distacco di una porzione di tagliente).

Pitting of the tap (detachment of a portion of the cutting edge).

Possibili soluzioni del problema
Possible solutions to the problem
Diminuire la velocità di maschiatura.

Reduce the tapping speed.

Immagine del difetto / *Photo of the defect*



Particolare filettato
Threaded part

Descrizione del difetto
Description of the defect
Difficoltà di inserimento di coil o di vite nell'area filettata (filetto sovra o sotto dimensionato).

Difficulty in inserting coils or screws in the threaded area (thread too small or too big).

Possibili soluzioni del problema
Possible solutions to the problem
Sostituire il maschio usurato e/o controllare la dimensione effettiva del preforo.

Replace the worn tap and/or check the actual size of the pilot-hole.

Immagine del difetto / *Photo of the defect*



Maschio
Tap

Descrizione del difetto
Description of the defect
Rottura del maschio in prossimità della punta.

Breaking of the tap near the tip.

Possibili soluzioni del problema
Possible solutions to the problem
Praticare un preforo di diametro idoneo o leggermente sovradimensionato nel caso di filettature di materiali con elevata componente elastica (es. inox).

Drill a pilot-hole with a suitable diameter or slightly larger if threading materials with high elastic component (e.g. stainless steel).

Immagine del difetto / *Photo of the defect*



Filiera
Round die

Descrizione del difetto
Description of the defect
Caterizzazione della filiera (distacco di una porzione di tagliente.

Pitting of threading die (detachment of a portion of the cutting edge).

Possibili soluzioni del problema
Possible solutions to the problem
Controllare la dimensione nominale della barra in filettatura. Utilizzare un girafiliere manuale.

Check the nominal size of the thread in the bar. Use a manual die stock.

Immagine del difetto / *Photo of the defect*



Maschio a macchina
Machine tap

Descrizione del difetto
Description of the defect
Imbocco del maschio scheggiato.

Entrance of the tap is chipped.

Possibili soluzioni del problema
Possible solutions to the problem
Controllare la dimensione del preforo e/o diminuire la velocità di filettatura e/o avanzamento.

Check the size of the pilot hole and/or decrease the threading and/or advancement speed.

Immagine del difetto / *Photo of the defect*



Maschio a macchina
Machine tap

Descrizione del difetto
Description of the defect
Rottura multipla del maschio.

Multiple breaks in the tap.

Possibili soluzioni del problema
Possible solutions to the problem
Diminuire la velocità di filettatura e/o avanzamento. Filettare spessori non superiori a 1.5 volte il diametro nominale del maschio. Utilizzare teste a maschiare con frizione (specialmente nella maschiatura di fori ciechi). Mantenere pulito il fondo del foro cieco per evitare intasamento dei trucioli e conseguente danneggiamento del maschio. Verificare il corretto allineamento assiale maschio-preforo.

Decrease the threading and/or advancement speed. Thread thicknesses should not exceed 1.5 times the nominal diameter of the tap. Use tapping heads with friction (especially when tapping blind holes). Keep the bottom of the blind hole clean in order to prevent clogging with chips and consequent damage to the tap. Check the correct alignment of the tap-pilot hole axis.

Immagine del difetto / *Photo of the defect*



Maschio a macchina
Machine tap

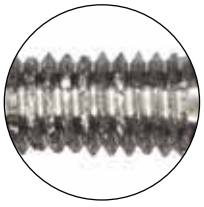
Descrizione del difetto
Description of the defect
Rottura del maschio in prossimità del termine dell'area filettata.

Breaking of the tap near the end of the threaded area.

Possibili soluzioni del problema
Possible solutions to the problem
Filettare spessori non superiori a 1.5 volte il diametro nominale del maschio. Utilizzare teste a maschiare con frizione (specialmente nella maschiatura di fori ciechi). Mantenere pulito il fondo del foro cieco per evitare intasamento dei trucioli e conseguente danneggiamento del maschio.

Thread thicknesses should not exceed 1.5 times the nominal diameter of the tap. Use tapping heads with friction (especially when tapping blind holes). Keep the bottom of the blind hole clean in order to prevent clogging with chips and consequent damage to the tap.

Immagine del difetto / *Photo of the defect*



Particolare filettato
Threaded part

Descrizione del difetto
Description of the defect
Filettatura realizzata con finitura scadente.

Threading made with poor finishing.

Possibili soluzioni del problema
Possible solutions to the problem
Sostituire la filiera con una non usurata. Verificare la corretta ortogonalità filiera-barra in filettatura. Effettuare mezzo giro in senso anti-orario ad ogni rotazione oraria della filiera, per rompere il truciolo prodotto.

Replace the threading die with a new one. Check the correct orthogonality of the threading die-bar. At every clockwise rotation of the die, make a half-turn in a counter-clockwise direction to break the chip produced.

GUIDA ALLA RISOLUZIONE DEI PROBLEMI DI FORATURA DEI MATERIALI EDILI
Troubleshooting guide for drilling of building materials

Immagine del difetto / *Photo of the defect*



Fresa a tazza
Hole saw

Descrizione del difetto
Description of the defect
Si rompe o si scheggia un dente in metallo duro a causa di urti (es. cadute accidentali, urto contro tondino del cemento armato o pezzi duri inglobati nel materiale in lavorazione).

A tooth in hard metal breaks or chips due to impacts (e.g. accidental falls, knock against reinforced cement or hard pieces incorporated into work materials).

Possibili soluzioni del problema
Possible solutions to the problem
Procedere con cautela durante la foratura, evitando il più possibile urti accidentali:

-quando si maneggia l'utensile,

-in fase di inizio foratura,

-durante la foratura, soprattutto nel caso di lavorazioni di materiali stratificati o compositi.

Proceed carefully during the drilling, and avoid accidental knocks as much as possible:

- when handling the tool,

- at the start of drilling

- during the drilling in particular of laminated or composite materials.

Immagine del difetto / *Photo of the defect*



Denti con carburo in grani
Carbide gritted teeth

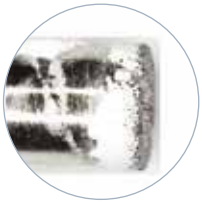
Descrizione del difetto
Description of the defect
Si impasta il materiale in lavorazione sui grani di carburo di tungsteno. Il materiale lavorato è tenero e pastoso.

The material being drilled blends with the tungsten carbide grains. The material being drilled is soft and mushy.

Possibili soluzioni del problema
Possible solutions to the problem
Scegliere un altro utensile maggiormente idoneo allo scopo. Aumentare la refrigerazione dell'area in lavorazione. Aumentare la velocità di foratura.

Choose another tool which is more suitable for the purpose. Increase the refrigeration of the area being drilled. Increase the drilling speed.

Immagine del difetto / *Photo of the defect*



Fresa diamantata
Diamond core bit

Descrizione del difetto
Description of the defect
Si impasta il materiale in lavorazione sui diamanti. Il materiale lavorato è tenero e pastoso.

The material being drilled blends with the diamonds. The material being drilled is soft and mushy.

Possibili soluzioni del problema
Possible solutions to the problem
Scegliere un altro utensile maggiormente idoneo allo scopo. Aumentare la refrigerazione dell'area in lavorazione. Aumentare la velocità di foratura.

Choose another tool which is more suitable for the purpose. Increase the refrigeration of the area being drilled. Increase the drilling speed.

Immagine del difetto / *Photo of the defect*



Fresa diamantata
Diamond core bit

Descrizione del difetto
Description of the defect
Si usura precocemente la corona diamantata a causa di un uso intensivo dell'utensile in assenza di una corretta refrigerazione.

The diamond crown wears prematurely due to intensive use of the tool without proper refrigeration.

Possibili soluzioni del problema
Possible solutions to the problem
Aumentare la refrigerazione della zona in lavorazione, per evitare il surriscaldamento della lega che trattiene i diamanti sul corpo dell'utensile.

Increase refrigeration in the drilling area to prevent overheating of the alloy that holds the diamonds on the body of the tool.

Immagine del difetto / *Photo of the defect*



Punta per muro
Masonry drill

Descrizione del difetto
Description of the defect
Si usura la testa dell'utensile.

The head of the tool wears away.

Possibili soluzioni del problema
Possible solutions to the problem
Evitare qualsiasi urto durante la foratura. Scegliere il martello con potenza idonea al tipo di punta che si utilizza (attacco SDS-PLUS, attacco SDS-MAX, codolo cilindrico).

Avoid any kind of impact during the drilling process. Choose a hammer strong enough for the type of bit used (SDS-PLUS connection, SDS-MAX connection, cylindrical shank).

Immagine del difetto / *Photo of the defect*



Punta per muro
Masonry drill

Descrizione del difetto
Description of the defect
Si rompe la punta all'inizio dell'elica, a causa dell'applicazione di un momento flettente eccessivo.

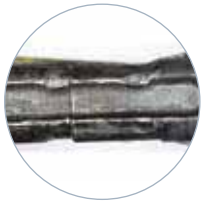
The tip at the start of the screw snaps due to excessive bending.

Possibili soluzioni del problema
Possible solutions to the problem
Evitare movimenti oscillatori al fine di allargare il diametro del foro che si sta realizzando. Non eccedere con la profondità del foro che si intende realizzare: utilizzare allo scopo un utensile con lunghezza totale più elevata.

Avoid swinging movements to widen the diameter of the hole that is being made.

Do not go beyond the depth of the hole that needs to be made: for this purpose, use a tool with a longer overall length.

Immagine del difetto / *Photo of the defect*



Attacco SDS-PLUS
SDS-PLUS shank

Descrizione del difetto
Description of the defect
Si rompe/deforma l'attacco dell'utensile.

The connection of the tool breaks/deforms.

Possibili soluzioni del problema
Possible solutions to the problem
Sostituire il mandrino usurato, che inevitabilmente danneggia l'attacco dell'utensile.

Replace the worn spindle, which inevitably damages the tool connection.

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CONDIZIONI GENERALI DI VENDITA
GENERAL SALES CONDITIONS

Le condizioni di seguito riportate si intendono accettate dal committente in fase di ordinazione.

1. ORDINI:
Con il conferimento dell'ordine si intendono approvate dal committente tutte le condizioni di vendita in vigore, salvo accordi particolari accettati dai contraenti. Tutti gli ordini sono irrevocabili da parte del committente ma potranno non essere da noi evasi a nostro insindacabile giudizio e senza obbligo di comunicazione o giustificazione. Nell'ordine è necessario specificare il codice dell'articolo.

2. PREZZI:
I prezzi si intendono per merce franco nostro magazzino (imballo, iva, trasporto esclusi) e non sono impegnativi. I prezzi che avranno valore saranno quelli in vigore al momento della spedizione.

3. IMBALLO:
Gratuito, salvo specifiche richieste del committente, che verranno fatturate al costo.

4. SPEDIZIONE:
Verrà effettuata come segue:

a) a mezzo nostro corriere di fiducia, in porto franco con addebito in fattura, in tal caso la merce sarà parzialmente assicurata** (vedere punto 10 dell'elenco);

b) a corriere di fiducia del committente: la resa sarà franco nostro stabilimento di Monticello e la merce viaggia a totale rischio e pericolo del committente. Pertanto in caso di ritardi, ammanchi, avaria, furti, etc. i reclami devono essere indirizzati al Vettore, solo ed unico responsabile.

5. CONSEGNE:
Il termine di consegna, qualora venisse indicato, è puramente indicativo e pertanto solleva la nostra società da ogni qualsivoglia rivalsa.

6. RECLAMI:
Debbono pervenire per iscritto entro 8 giorni dalla data di ricevimento merce. Trascorso tale termine, i reclami non verranno accettati. I reclami di qualsiasi natura non sospendono l'obbligo di effettuare i pagamenti nella forma convenuta. L'acquirente, nel caso che la merce sia da noi ritenuta non idonea, ha diritto esclusivamente alla sostituzione della stessa o all'accredito dell'importo. Ogni altro tipo di indennizzo si intende privo di valore. Per qualsiasi contestazione si elegge unico foro competente quello del Tribunale di Lecco.

7. RESI:
Ogni reso o sostituzione dovrà essere preventivamente autorizzato da KRINO SPA. La merce sarà accettata di ritorno, salvo verifica all'arrivo in magazzino. Questa dovrà essere inviata in porto franco e accompagnata dalla bolla di consegna con indicati gli estremi della fattura con la quale è stata precedentemente fornita.

8. PAGAMENTI:
Debbono essere effettuati esclusivamente alla nostra sede, secondo le forme concordate. Nel caso di ritardato pagamento, verranno addebitati gli interessi bancari dalla data di scadenza concordata sino all'avvenuto pagamento, maggiorati delle eventuali spese accessorie.

9. CARATTERISTICHE DEI PRODOTTI:
Le immagini contenute nel presente catalogo sono puramente indicative, pertanto la nostra azienda si riserva il diritto di apportare modifiche migliorative dei prodotti senza nessun obbligo di preavviso.

LA RIPRODUZIONE ANCHE PARZIALE DEL PRESENTE CATALOGO È VIETATA

10. VALORE DELL'ORDINE:
La spedizione verrà effettuata come segue:

- ordini singoli (non cumulabili) di importo superiore a Euro 600,00: spedizione in porto franco a mezzo nostro corriere di fiducia;
- ordini singoli (non cumulabili) di importo inferiore a Euro 600,00: spedizione in porto franco con addebito in fattura di Euro 10,00;
- ordini singoli (non cumulabili) di importo inferiore a Euro 100,00: spedizione in porto franco con addebito in fattura di Euro 10,00 + addebito di € 10 per oneri gestionali.

Riepilogando:

Valore ordine	Trasporto / Addebito	Oneri gestionali
Maggiore di Euro 600,00	Porto Franco	-
Minore di Euro 600,00	Euro 10,00	-
Minore di Euro 100,00	Euro 10,00	Euro 10,00

11. SERVIZIO RAPIDO:
- Per garantire il servizio, gli ordini devono essere inviati esclusivamente via email all'indirizzo: rapido@krino.it.
- Per ordini ricevuti entro le ore 10,00 viene garantita la spedizione il giorno lavorativo successivo, salvo indisponibilità del prodotto.
- Per ordini ricevuti dopo le ore 10,00 viene garantita la spedizione entro due giorni lavorativi, salvo indisponibilità del prodotto.
- Numero righe ordine non superiore a 10.
- Non è possibile effettuare aggiunte / modifiche all'ordine trasmesso.
- Possibilità di ritirare il materiale c/o la nostra sede, senza addebito.

1. ORDERS:
When an order is placed, all conditions are automatically accepted by the client. The order is irrevocable but we reserve the right to accept it. All orders should specify the items numbers.

2. PRICES:
All prices are ex works (packing, VAT and freight excluded).

3. PACKAGING:
Is free, a part of special requirements extra charged.

4. SHIPMENT:
It can be CIF with invoice charge, by parcel post or with a forwarding agent suggested by the customer.

5. DELIVERY TIME:
Is purely indicative.

6. CLAIMS:
They should be notified within 8 days from the date of goods receipt. We shall only arrange free replacement of the tools acknowledged as defective ones by us. In case of dispute, the Civil Court of LECCO will be competent.

7. GOODS RETURNED:
Any goods return should be authorized by us.

8. PAYMENTS:
to be made directly to our head office. In case of late payment, we charge the bank interest rate, including additional expenses.

9. PRODUCTS CARACTERISTICS:
The images of this catalogue are purely indicatives, we reserve the right to make modifications without any notice.

THE REPRODUCTION OF THIS CATALOGUE IS PROHIBITED.

Any clause contained into your order sheets which is in contrast with the above mentioned conditions it is not valid.

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