

Сверла для фрезерования

Технические характеристики

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Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

FRESA PER RIMUOVERE I PUNTI DI SALDATURA SU LAMIERE METALLICHE

Milling cutter for removing spot welds from metal sheets / Fraise pour enlever les points de soudure de la tôle

Fresa para quitar los puntos de soldadura de las planchas metálicas / Schweißpunktfräser für Bleche



HSS

Ø	d	L	cod.
10	7	72	01174100

01174

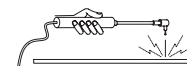
Ricambi - Spare parts



01174101



01174102



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 / Fraise universel pour couper et fraiser la tôle

et les matériaux fins en bois ou plastique / Fresa universal para cortar y fresar planchas y materiales finos de madera y plástico

Mehrzweckfräser für die Bohrung und das Fräsen von Bleche und dünnen Holz-Kunststoffmaterialien

HSS

01175

05432



HSS



CV

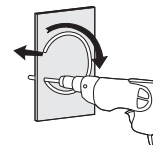
Confezione / Packaging



ØxL	cod.
6x90	011750600

C.V.

ØxL	cod.
6x90	05432120



**01175
05432**

5 pcs

01178100

Ø 8x40	2 pcs
Ø 8	2 pcs
Ø 6	1 pcs

5 pcs

01178101

Ø 8x44	2 pcs
Ø 8	2 pcs
Ø 6	1 pcs

PUNTE PER TRACCIARE CON RIPORTO IN METALLO DURO

Carbide scribes / Pointe carbure à tracer / Punta para trazar / Hartmetall Reißspitze

0314201

0314202



03142



L	cod.
200	0314201
150	0314202

03142

PUNTERUOLO

Punch



CV

L	cod.
78	4100101

41001

Professional

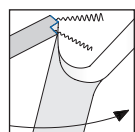
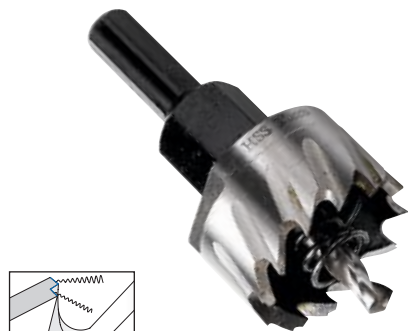
FRESE PERFORATRICI A TAZZA IN HSS-G INTERAMENTE RETTIFICATE PER FORARE LAMIERE IN ACCIAIO, FERRO, LEGHE LEGGERE, TUTTI I MATERIALI METALLICI, PLASTICA DURA

HSSG fully ground hole cutters / Scies trépan HSSG rectifiées

Coronas perforadoras HSSG rectificadas - HSSG Lochsägen

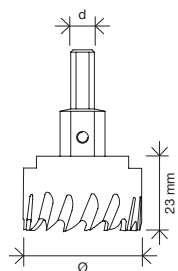
HSS-G

21001



Taglio laterale: miglior estrazione dei trucioli
Side cut: easy chips removal

HSS-G
HRC ≈ 64



Confezione
Packaging



- 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
- Dessin innovateur de la denture et coup latéral: meilleur extraction des copeaux avec un élevé rendement du coupe
- Diseño innovador de los dientes y corte lateral: mejor extracción de las virutas con un alto rendimiento de corte
- Erneuerungszeichnung der Zahnung und Seitenschnitt: besser Abziehen der Späne mit Hochleistung des Schnitts.

Ø	Z	cod.
*10	5	2100101000
12	5	2100101200
13	5	2100101300
14	6	2100101400
15	6	2100101500
16	6	2100101600
17	6	2100101700
18	6	2100101800
19	8	2100101900
20	8	2100102000
21	8	2100102100
22	8	2100102200
23	8	2100102300
24	8	2100102400
25	8	2100102500
26	10	2100102600
27	10	2100102700
28	10	2100102800
29	10	2100102900
30	10	2100103000
31	12	2100103100
32	12	2100103200
33	12	2100103300
34	12	2100103400
35	12	2100103500
36	12	2100103600
37	12	2100103700
38	12	2100103800
39	12	2100103900
40	14	2100104000
41	14	2100104100

Ø	Z	cod.
42	14	2100104200
43	14	2100104300
44	16	2100104400
45	16	2100104500
46	16	2100104600
47	16	2100104700
48	16	2100104800
49	16	2100104900
50	16	2100105000
51	18	2100105100
52	18	2100105200
53	18	2100105300
54	18	2100105400
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57	18	2100105700
58	18	2100105800
59	18	2100105900
60	18	2100106000
65	20	2100106500
70	20	2100107000
75	22	2100107500
80	22	2100108000
85	24	2100108500
90	24	2100109000
95	24	2100109500
100	24	2100110000
120	30	2100112000



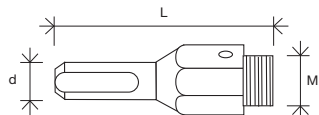
pcs

cod.

Ø ≥ 20mm 5 21005098

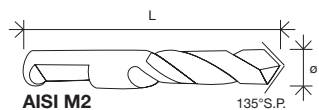
*Integrale: One piece

Gambo - Arbor



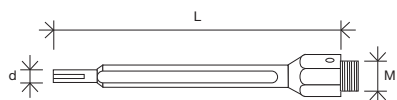
Per frese Fit hole cutters	L	d	M	cod.
Ø 12 ÷ 14	56	8	10 x 1,25	21005099
Ø 15 ÷ 34	56	10	12 x 1,25	21005100
Ø 35 ÷ 50	56	10	14 x 1,5	21005102
Ø 51 ÷ 100	60	12	16 x 1,5	21005101

Punta pilota - Pilot drill



Per frese Fit hole cutters	Ø x L	cod.
Ø 10	4 x 50	21005109
Ø 12 ÷ 100	6 x 52	21005110

Prolunga 400 mm - Extension



Per frese Fit hole cutters	L	d	M	cod.
Ø 15 ÷ 34	400	13	12 x 1,25	21005120
Ø 35 ÷ 50	400	13	14 x 1,5	21005122
Ø 51 ÷ 100	400	13	16 x 1,5	21005121

ASSORTIMENTI FRESE PERFORTRICI A TAZZA IN HSS-G

HSS-G hole-cutters sets / Assortiments de scies trépan HSS-G

Juegos de corona perforadoras HSS-G / HSS-G Lochsägensätze



39 pcs
Ø 12÷50x1mm
21010100

31 pcs
Ø 12÷40x1+45-50mm
21010101

21 pcs
Ø 18÷35x1+36-38-40mm
21010102

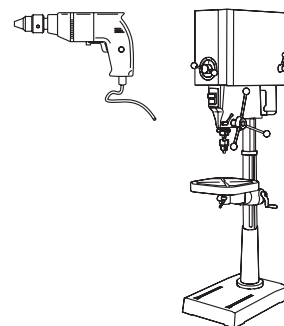
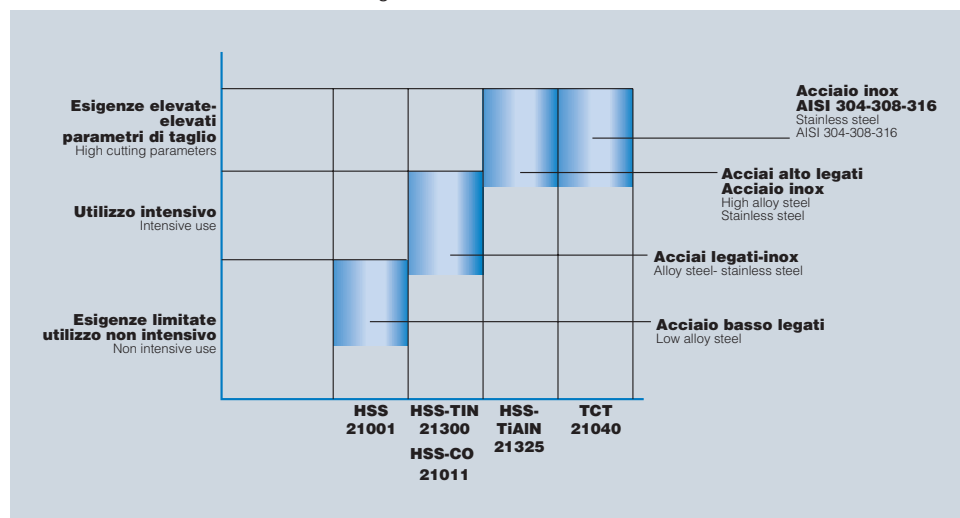
11 pcs
Ø 16-18-20-21-22-25
27-28-30-32-35mm
21010104



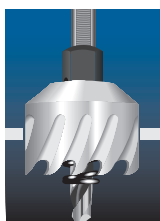
8 pcs
Ø 16-18-20-22-25-30-32-35
21010300

6 pcs
Ø 16-18-20-22-25-30
21010301

Guida alla scelta della tazza / Choosing chart



Applicazioni
Applications



$R \leq 800 \text{ N/mm}^2$

- Dentatura ricavata interamente di rettifica, taglio laterale rompitruciolo, molla di espulsione del dischetto. **Profondità di foratura sino a 5 mm.** 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, **cutting depth up to 5 mm.** High performances and precision in hole-making into metal sheets, light alloys, all kind of metals.
- Trépan HSS rectifié avec coupe latérale pour perçage haute rendement en acier et métaux courants en construction mécanique, entretien, installations électriques et sanitaires. **Épaisseur de coupe: 5 mm.** Outil reaffilable.
- Corona perforadora rectificada con corte lateral para cortar planchas y tubos de hierro, acero, metales. **Profundidad de corte: 5 mm.** utensilio reafilable.
- HSS Lochsägen mit geschliffene Zähne für die präzise Schneide und größte Leistung in Stahlblätter.



Industrial

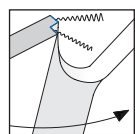
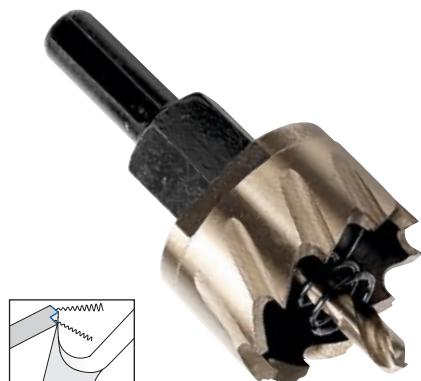
FRESE PERFORATRICI A TAZZA IN **HSS-CO** INTERAMENTE RETTIFICATE PER FORARE LAMIERE IN ACCIAIO INOX, ACCIAI ALTAMENTE LEGATI, FERRO, LEGHE LEGGERE E METALLI IN GENERE.

HSS-CO fully ground hole cutters / Scies trépan HSS-CO rectifiées

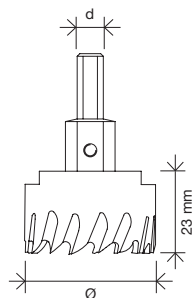
Coronas perforadoras HSS-CO rectificadas - HSS-CO Lochsägen

COBALT

21011



HSS-CO AISI M35
HRC ≈ 64÷65



Confezione / Packaging



Ø	Z	cod.
12	4	2101101200
13	4	2101101300
14	4	2101101400
15	4	2101101500
16	4	2101101600
17	4	2101101700
18	4	2101101800
19	6	2101101900
20	6	2101102000
21	6	2101102100
22	6	2101102200
23	6	2101102300
24	6	2101102400
25	6	2101102500
26	8	2101102600
27	8	2101102700
28	8	2101102800
29	8	2101102900
30	8	2101103000
31	10	2101103100
32	10	2101103200
33	10	2101103300
34	10	2101103400
35	10	2101103500
36	10	2101103600
37	10	2101103700
38	10	2101103800

Ø	Z	cod.
39	10	2101103900
40	12	2101104000
41	12	2101104100
42	12	2101104200
43	12	2101104300
44	14	2101104400
45	14	2101104500
46	14	2101104600
47	14	2101104700
48	14	2101104800
49	14	2101104900
50	14	2101105000
51	16	2101105100
52	16	2101105200
53	16	2101105300
54	16	2101105400
55	16	2101105500
56	16	2101105600
57	16	2101105700
58	16	2101105800
59	16	2101105900
60	16	2101106000
65	18	2101106500
70	18	2101107000
75	20	2101107500
80	20	2101108000



pcs

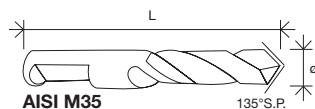
cod.

Ø ≥ 20mm

5

21005098

Punta pilota - Pilot drill



AISI M35

135° S.P.

Per frese
Fit hole cutters

Ø x L

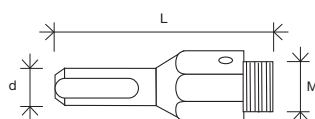
cod.

Ø 12 ÷ 80

6 x 52

21005115

Gambo - Arbor



ASSORTIMENTI FRESE PERFORATRICI A TAZZA IN HSS-CO

HSS-CO hole-cutters sets / Assortiments de scies trépan HSS-CO

Juegos de corona perforadoras HSS-CO / HSS-CO Lochsägensätze



39 pcs

Ø 12÷50x1mm

21012100

31 pcs

Ø 12÷40x1+45-50mm

21012101

21 pcs

Ø 18÷35x1+36-38-40mm

21012102

8 pcs

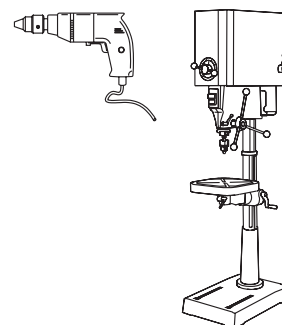
Ø 16-18-20-22-25-30-32-35

21012300

6 pcs

Ø 16-18-20-22-25-30

21012301



R ≤ 1000 N/mm²



Inox



Acciaio
Steel



Alu



Cu Zn Ni Ms



Applicazioni
Applications



- L'innovativo disegno dei taglienti, insieme all'elevata qualità dell'acciaio al cobalto AISI M35, la rendono particolarmente adatta al taglio dell'acciaio inox, degli acciai altolegati, leghe leggere e metalli in genere: grande rendimento e precisione di foratura nel taglio di spessori sino a 5 mm.
- The upgrade teeth design together with the high quality of the cobalt steel AISI M35 make it particularly suitable for cutting stainless steel, high-alloy steels, light alloys and metals: high performance and precision of the cut in sections up to 5 mm thick.
- Le dessin innovateur de la denture ainsi que l'élevée qualité de l'acier au cobalt AISI M35 la rendent particulièrement indiquée pour le coupe de l'acier inoxydable, des aciers alliés, alliages légers et métaux en général: élevé rendement et précisions du coupe de sections jusqu'à 5 mm d'épaisseur.
- El diseño innovador de los dientes junto a la elevada calidad del acero de cobalto AISI M35 la hacen particularmente apta para el corte del acero inoxidable, de los aceros ligados, aleaciones ligeras y metales en general: elevado rendimiento y precisión de corte de espesores hasta 5 mm.
- Die Erneuerungszeichnung der Zahnung und die hohe Qualität des Kobaltsthal AISI M35 machen sie sehr geeignet für den Schnitt von rostfreiem Stahl, hochlegierten Stählen, Leichtmetall-Legierungen und Metalle: Hochleistung und Genauigkeit des Schnitts von Dicke bis 5 mm.

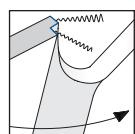
FRESE PERFORATRICI A TAZZA IN HSS-G RETTIFICATE RIVESTITE AL TiN PER FORARE LAMIERE IN ACCIAIO ALTOLEGATO, ACCIAIO INOX, FERRO, TUTTI I MATERIALI METALLICI, PLASTICA DURA

HSS-G+TiN fully ground hole cutters / Scies trépan HSS-G+TiN rectifiées

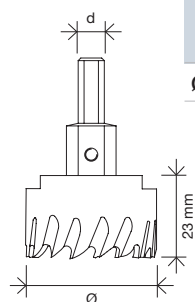
Coronas perforadoras HSS-G+TiN rectificadas - HSS-G+TiN Lochsägen

TiN

21300

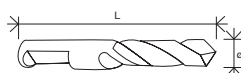


HSS-G+TiN
HV 0,05 ≈ 2300



	pcs	cod.	€
			cad/each
Ø ≥ 20mm	5	21005098	0,630

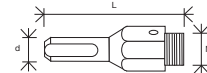
Punta pilota HSS-CO - Pilot drill



Ø x L cod.

6 x 52 21005115

Gambo - Arbor



39 pcs
Ø 12÷50x1mm
21320100

31 pcs
Ø 12÷40x1+45-50mm
21320101

21 pcs
Ø 18÷35x1+36-38-40mm
21320102



8 pcs
Ø 16-18-20-22-25-30-32-35
21320300

6 pcs
Ø 16-18-20-22-25-30
21320301

Applicazioni / Applications



R ≤ 1000 N/mm²



- Il Rivestimento in Nitrato 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.
- Le revêtement ou Nitrure de titane, élève la dureté superficielle et réduit le coefficient de friction, en permettant de percer dans des aciers haute alliés et particulièrement dans l'acier inoxydable. Les fraises au TiN sont aussi indiquées pour percer dans l'aluminium et tous les matériaux abrasifs (plastique dur; polyester renforcé de verre). Naturellement le coupe dans les acier doux est très élevé.
- El recubrimiento en Nitrato de Titanio, levantando la durezza superficial y reduciendo el coeficiente de fricción, permite el corte en los aceros altamente aliados y particularmente en el acero inoxidable. Las fresas al TiN son tambien indicadas para el corte en el aluminio y en todos los materiales abrasivos (plasticos duros, vidrio-resina). Naturalmente, el rendimiento de los cortes en los aceros dulces es muy elevado.
- HSS Lochsägen mit geschliffene und TiN-beschichtete Zähne für die präzise Schneide und große Leistung in Edelstahl und Schleifmaterialien.

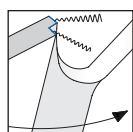
FRESE PERFORATRICI A TAZZA IN HSS-G RIVESTITE AL TiAIN PER FORARE LAMIERE IN ACCIAIO ALTOLEGATO, ACCIAIO INOX, FERRO, TUTTI I MATERIALI METALLICI, PLASTICA DURA

HSS-TiAIN fully ground hole cutters / Scies trépan HSS-TiAIN rectifiées

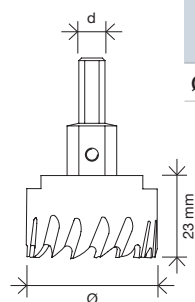
Coronas perforadoras HSS-TiAIN rectificadas - HSS-TiAIN Lochsägen

TiAIN

21325

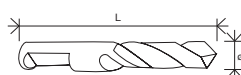


HSS-G+TiAIN
HV 0,05 ≈ 3300



	pcs	cod.	€
			cad/each
Ø ≥ 20mm	5	21005098	0,630

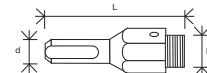
Punta pilota HSS-CO - Pilot drill



Ø x L cod.

6 x 52 21005115

Gambo - Arbor



39 pcs
Ø 12÷50x1mm

21335100

31 pcs
Ø 12÷40x1+45-50mm

21335101

21 pcs
Ø 18÷35x1+36-38-40mm
21335102



8 pcs
Ø 16-18-20-22-25-30-32-35

21335300

6 pcs
Ø 16-18-20-22-25-30

21335301

Applicazioni / Applications



R ≤ 1300 N/mm²



Inox



Acciaio



Metals



Plastics

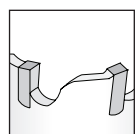


- Frese a tazza HSS+TiAIN: più si "scalda", più rende. È un esclusivo rivestimento PVD che permette il taglio a secco ad elevati parametri di taglio e con rendimenti eccezionali nell'acciaio inox e in tutti i materiali in genere.
- HSS+TiAIN hole cutters: The more it "heats" the more it performs. It 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.
- Scies trépan en acier rapid + TiAIN: Plus "chaude" elle devient, plus c'est performante. C'est une exclusive revêtement PVD qui permet le coupe à froid avec des hautes paramètres de perforation avec des performances exceptionnelles en travaillant dans l'acier inoxydable et tous les matériaux.
- Corona perforadora en acero rapido + TiAIN: Lo mas se "calenta", lo mas es performante. Es un recubrimiento PVD exclusivo, permite el corte seco con elevados parametros de corte y con optimos rendimientos cortando en el acero inoxidable y todos los materiales.
- HSS Lochsägen mit geschliffene und TiAIN-beschichtete Zähnen für Hitzbeständige Stähle und für die präzise Schneide und große Leistung in Edelstahl und Schleifmaterialien.

FRESE A TAZZA TCT AD ALBERO MOBILE PER FORARE LAMIERE IN ACCIAIO INOX, ACCIAI DURI TRATTATI

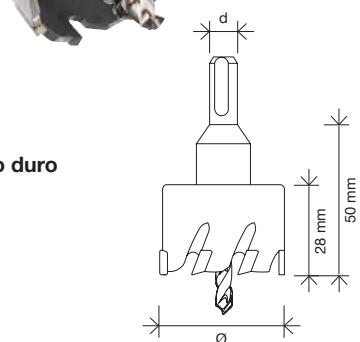
Tungsten carbide tipped hole saws for stainless and hard metal sheets / Scies trépan au carbure de tungstène pour la tôle en acier inox
Coronas con dientes de metal duro para planchas en acero inoxidable y duro / Hartmetallochsägen für nicht rostenden Stahl

21040



Inserti in metallo duro
Carbide tips

Confezione / Packaging



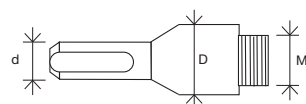
 pcs
 cod.
 €
 cad/each
 Ø ≥ 15mm 5 21045098 0,630

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

Ø	d	cod.
48	13	2104004800
49	13	2104004900
50	13	2104005000
51	13	2104005100
52	13	2104005200
53	13	2104005300
54	13	2104005400
55	13	2104005500
56	13	2104005600
57	13	2104005700
58	13	2104005800
59	13	2104005900
60	13	2104006000
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70	13	2104007000
75	13	2104007500
76	13	2104007600
80	13	2104008000
85	13	2104008500
90	13	2104009000
95	13	2104009500
100	13	2104010000
*105	13	2104010500
*110	13	2104011000
*115	13	2104011500
*120	13	2104012000
*125	13	2104012500
*130	13	2104013000
*135	13	2104013500
*140	13	2104014000
*145	13	2104014500
*150	13	2104015000

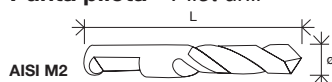
*105÷150 frese integrali One piece

Gambo - Arbor



Per frese Fit hole cutters	d	D	M	cod.
Ø 15 ÷ 21	10	15	12 x 1,5	21045120
Ø 22 ÷ 37	10	19	14 x 1,5	21045121
Ø 38 ÷ 100	13	22	14 x 1,5	21045122

Punta pilota - Pilot drill



AISI M2

Per frese Fit hole cutters	Ø x L	cod.
Ø 15 ÷ 100	6 x 62	21045100
Ø 105 ÷ 120	8 x 62	21045101



28 pcs
Ø 15÷40x1+45-50mm
21055130

21 pcs
Ø 18÷35x1+36-38-40mm
21055131



8 pcs
Ø 16-18-20-22-25-30-32-35
21055300

6 pcs
Ø 16-18-20-22-25-30
21055301



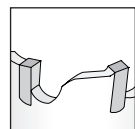
8 pcs
Ø 51÷54mm
Ø 51÷54mm
210705546B
Ø 6÷8mm
HM4 Ø12
21055302

8 pcs
Ø 54÷57mm
Ø 54÷57mm
210705546B
Ø 6÷8mm
HM4 Ø12
21055303

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

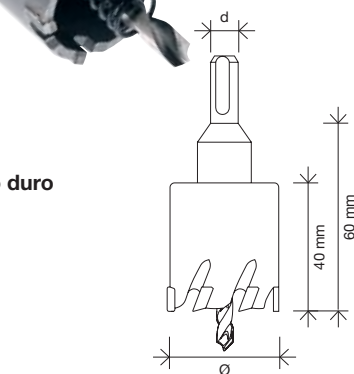
Tungsten carbide tipped hole saws for stainless and hard metal sheets / Scies trépan au carbure de tungstène pour la tôle en acier inox Coronas con dientes de metal duro para planchas en acero inoxidable y duro / Hartmetallochsägen für nicht rostenden Stahl

21042



Inserti in metallo duro
Carbide tips

Confezione / Packaging



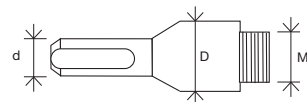
pcs cod. €
cad/each
Ø ≥ 15mm 5 21045098 0,630

Serie lunga / Long serie / Série longue / Serie larga / Lange Ausführung

Ø	d	cod.
20	10	2104202000
21	10	2104202100
22	10	2104202200
23	10	2104202300
24	10	2104202400
25	10	2104202500
26	10	2104202600
27	10	2104202700
28	10	2104202800
29	10	2104202900
30	10	2104203000
31	10	2104203100
32	10	2104203200
33	10	2104203300
34	10	2104203400
35	10	2104203500
36	10	2104203600
37	10	2104203700
38	10	2104203800
39	13	2104203900
40	13	2104204000
41	13	2104204100
42	13	2104204200
43	13	2104204300
44	13	2104204400

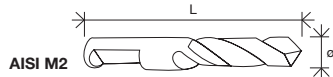
Ø	d	cod.
45	13	2104204500
46	13	2104204600
47	13	2104204700
48	13	2104204800
49	13	2104204900
50	13	2104205000
51	13	2104205100
52	13	2104205200
53	13	2104205300
54	13	2104205400
55	13	2104205500
56	13	2104205600
57	13	2104205700
58	13	2104205800
59	13	2104205900
60	13	2104206000
65	13	2104206500
70	13	2104207000
75	13	2104207500
80	13	2104208000
85	13	2104208500
90	13	2104209000
95	13	2104209500
100	13	2104210000

Gambo - Arbor



Per frese Fit hole cutters	d	D	M	cod.
Ø 15 ÷ 21	10	15	12 x 1,5	21045120
Ø 22 ÷ 38	10	19	14 x 1,5	21045121
Ø 39 ÷ 100	13	22	14 x 1,5	21045122

Punta pilota - Pilot drill



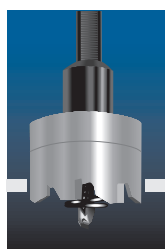
AISI M2

Ø x L	cod.
6 x 78	21045102



23 pcs
Ø 20÷40x1+45-50mm
21055135

Applicazioni / Applications



R ≤ 1300 N/mm²



Inox



Acciaio
Steel



Alu



Cu Zn Ni Ms



Plastics



- 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. Spessore massimo di taglio: 5 mm
- 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. Maximum cutting thickness: 5mm
- La spéciale géométrie variable de la denture en métal dur de haute qualité permet de couper professionnellement et avec un rendement très élevé la tôle, les tubes et les profilés en acier inoxydable, acier allié et matériaux à résistance élevée. Epaisseur maximum de coupe: 5mm
- La especial geometría variable de los dientes de metal duro de elevada calidad permite de realizar un corte profesional y de grande rendimiento en tubos, perfilados y planchas en acero inoxidable, acero ligado y materiales de elevada resistencia. Espesor máximo de corte: 5mm
- Die veränderbare Sondergeometrie der Zahnung aus Hartmetall erlaubt einen beruflichen Schnitt von Röhren, Profile und Bleche aus rostfreierem Stahl, hochlegierterem Stahl und hochfesterem Stahl. Größte Schnitt-Dicke: 5 mm

FRESE A CAROTARE IN HSS-G CON ATTACCO WELDON PER MACCHINE A SUPPORTO MAGNETICO E TRAPANI A COLONNA CON ATTACCO MORSE

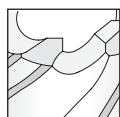
Weldon shank HSS core drills for magnetic and pillar drilling machines / Fraises HSS à carotter avec Weldon queue pour machines à embase magnétique et perceuses fixes / Fresas HSS con mango Weldon para maquinas con base magnética y taladros estacionarios

HSS-G

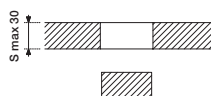
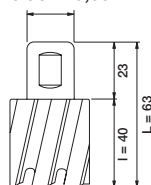
WELDON

21200

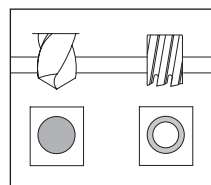
21202



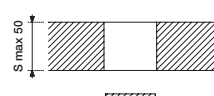
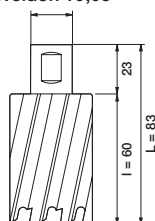
Weldon 19,05



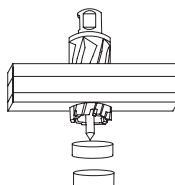
Vantaggi
Advantages



Weldon 19,05



Acciaio accoppiato
Stacked steel



21200 L= 30 mm

Serie corta / Short serie / Série courte
Serie corta / Kurze Ausführung

Ø	l	L	cod.
12	40	63	212001200
13	40	63	212001300
14	40	63	212001400
15	40	63	212001500
16	40	63	212001600
17	40	63	212001700
18	40	63	212001800
19	40	63	212001900
20	40	63	212002000
21	40	63	212002100
22	40	63	212002200
23	40	63	212002300
24	40	63	212002400
25	40	63	212002500
26	40	63	212002600
27	40	63	212002700
28	40	63	212002800
29	40	63	212002900
30	40	63	212003000
31	40	63	212003100
32	40	63	212003200
33	40	63	212003300
34	40	63	212003400
35	40	63	212003500
36	40	63	212003600
37	40	63	212003700
38	40	63	212003800
39	40	63	212003900
40	40	63	212004000
41	40	63	212004100
42	40	63	212004200
43	40	63	212004300
44	40	63	212004400
45	40	63	212004500
46	40	63	212004600
47	40	63	212004700
48	40	63	212004800
49	40	63	212004900
50	40	63	212005000
51	40	63	212005100
52	40	63	212005200
53	40	63	212005300
54	40	63	212005400
55	40	63	212005500
60	40	63	212006000



Ø 6,35x77



21202 L= 50 mm

Serie lunga / Long serie / Série longue
Serie larga / Lange Ausführung

Ø	l	L	cod.
12	60	83	212021200
13	60	83	212021300
14	60	83	212021400
15	60	83	212021500
16	60	83	212021600
17	60	83	212021700
18	60	83	212021800
19	60	83	212021900
20	60	83	212022000
21	60	83	212022100
22	60	83	212022200
23	60	83	212022300
24	60	83	212022400
25	60	83	212022500
26	60	83	212022600
27	60	83	212022700
28	60	83	212022800
29	60	83	212022900
30	60	83	212023000
31	60	83	212023100
32	60	83	212023200
33	60	83	212023300
34	60	83	212023400
35	60	83	212023500
36	60	83	212023600
37	60	83	212023700
38	60	83	212023800
39	60	83	212023900
40	60	83	212024000
41	60	83	212024100
42	60	83	212024200
43	60	83	212024300
44	60	83	212024400
45	60	83	212024500
46	60	83	212024600
47	60	83	212024700
48	60	83	212024800
49	60	83	212024900
50	60	83	212025000
51	60	83	212025100
52	60	83	212025200
53	60	83	212025300
54	60	83	212025400
55	60	83	212025500
60	60	83	212026000



Ø 6,35x102



16 pcs

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



21210300



21210302



6 pcs

Ø 12-14-16-18-20-22

1 pcs



21210400



21210402

Applicazioni / Applications



R ≤ 850 N/mm²



Acciaio
Steel



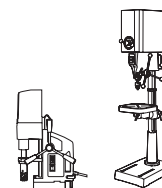
Alu



Cu Zn Ni Ms



- 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 piattelli 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.
- Les fraises à carotter permettent une coupe rapide et économique, dans le fer, l'acier de construction, la fonte, les alliages légers et les métaux non ferreux. Spécial pour les plates en acier et la tôle, les tubes, les poutrelles et les profilés en acier.
- Las coronas permiten el corte rápido y económico en hierro, acero de construcción, fundición, aleaciones ligeras y materiales no ferrosos. Especial para platos de metal y chapas de gran espesor, tubos, vigas y perfilados.



28012

FRESE A CAROTARE IN HSS-CO 5% CON ATTACCO WELDON PER MACCHINE A SUPPORTO MAGNETICO E TRAPANI A COLONNA CON ATTACCO MORSE

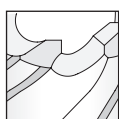
Weldon shank HSS-CO 5% core drills for magnetic and pillar drilling machines / Fraises HSS-CO 5% à carotter avec Weldon queue pour machines à embase magnétique et perceuses fixes / Fresas HSS-CO 5% con mango Weldon para maquinas con base magnética y taladros estacionarios

HSS-CO 5%

WELDON

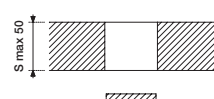
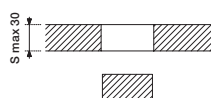
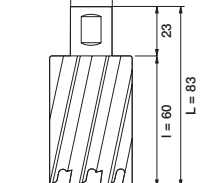
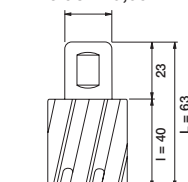
21206

21207

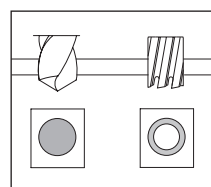


Weldon 19,05

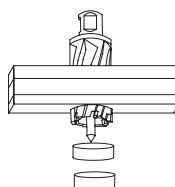
Weldon 19,05



Vantaggi
Advantages



Acciaio accoppiato
Stacked steel



21206 L= 30 mm

Serie corta / Short serie / Série courte
Serie corta / Kurze Ausführung

Ø	l	L	cod.
12	40	63	212061200
13	40	63	212061300
14	40	63	212061400
15	40	63	212061500
16	40	63	212061600
17	40	63	212061700
18	40	63	212061800
19	40	63	212061900
20	40	63	212062000
21	40	63	212062100
22	40	63	212062200
23	40	63	212062300
24	40	63	212062400
25	40	63	212062500
26	40	63	212062600
27	40	63	212062700
28	40	63	212062800
29	40	63	212062900
30	40	63	212063000
31	40	63	212063100
32	40	63	212063200
33	40	63	212063300
34	40	63	212063400
35	40	63	212063500
36	40	63	212063600
37	40	63	212063700
38	40	63	212063800
39	40	63	212063900
40	40	63	212064000
41	40	63	212064100
42	40	63	212064200
43	40	63	212064300
44	40	63	212064400
45	40	63	212064500
46	40	63	212064600
47	40	63	212064700
48	40	63	212064800
49	40	63	212064900
50	40	63	212065000
55	40	63	212065500
60	40	63	212066000

21207 L= 50 mm

Serie lunga / Long serie / Série longue
Serie lunga / Lange Ausführung

Ø	l	L	cod.
12	60	83	212071200
13	60	83	212071300
14	60	83	212071400
15	60	83	212071500
16	60	83	212071600
17	60	83	212071700
18	60	83	212071800
19	60	83	212071900
20	60	83	212072000
21	60	83	212072100
22	60	83	212072200
23	60	83	212072300
24	60	83	212072400
25	60	83	212072500
26	60	83	212072600
27	60	83	212072700
28	60	83	212072800
29	60	83	212072900
30	60	83	212073000
31	60	83	212073100
32	60	83	212073200
33	60	83	212073300
34	60	83	212073400
35	60	83	212073500
36	60	83	212073600
37	60	83	212073700
38	60	83	212073800
39	60	83	212073900
40	60	83	212074000
41	60	83	212074100
42	60	83	212074200
43	60	83	212074300
44	60	83	212074400
45	60	83	212074500
46	60	83	212074600
47	60	83	212074700
48	60	83	212074800
49	60	83	212074900
50	60	83	212075000
55	60	83	212075500
60	60	83	212076000

Ø 6,35x77



Ø 6,35x102



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



21210306



21210307



6 pcs
Ø 12-14-16-18-20-22
1 pcs

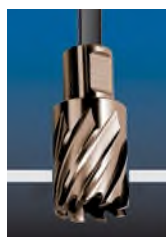


21210406

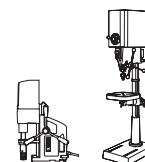


21210407

Applicazioni / Applications



R ≤ 1200 N/mm²



28012

Confezione / Packaging



- 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.
- Les fraises à carotter au 5% du cobalt permettent une coupe rapide et économique, dans l'acier inox, l'acier de construction, le fer, la fonte, les alliages légers et les métaux non ferreux. Spécial pour les plates en acier et la tôle, les tubes, les poutrelles et les profilés en acier.
- Las coronas de cobalto 5% permiten el corte rapido y economico en acero inoxidable, acero de construcción, fundición, aleaciones ligeras y materiales no ferricos. Especial para platos de metal y chapas de gran espesor, tubos, vigas y perfilados.
- Die Kernbohrer aus Kobalt 5% erlauben einen schnellen und sparsamen Schnitt in rostfreier Stahl, Flacheisen, Baustahl, Gusseisen, Leichtmetall-Legierungen und Nichteisenmaterialien. Geeignet für Flächen und Bleche aus Stahl von großer Stärke, Röhren, Eisenträger und Profilstähle.

FRESE A CAROTARE IN HSS + TiAIN CON ATTACCO WELDON PER MACCHINE A SUPPORTO MAGNETICO E TRAPANI A COLONNA CON ATTACCO MORSE

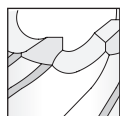
Weldon shank HSS + TiAIN core drills for magnetic and pillar drilling machines / Fraises HSS + TiAIN à carotter avec Weldon queue pour machines à embase magnétique et perceuses fixes / Fresas HSS + TiAIN con mango Weldon para máquinas con base magnética y taladros estacionarios

HSS + TiAIN

WELDON

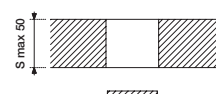
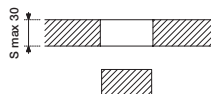
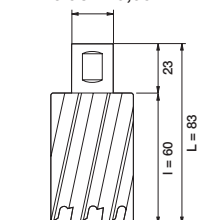
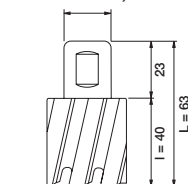
21204

21205

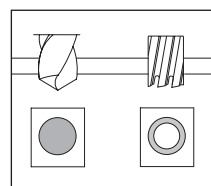


Weldon 19,05

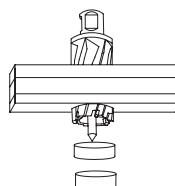
Weldon 19,05



Vantaggi
Advantages



Acciaio accoppiato
Stacked steel



21204 L= 30 mm

Serie corta / Short serie / Série courte
Serie corta / Kurze Ausführung

Ø	l	L	cod.
12	40	63	212041200
13	40	63	212041300
14	40	63	212041400
15	40	63	212041500
16	40	63	212041600
17	40	63	212041700
18	40	63	212041800
19	40	63	212041900
20	40	63	212042000
21	40	63	212042100
22	40	63	212042200
23	40	63	212042300
24	40	63	212042400
25	40	63	212042500
26	40	63	212042600
27	40	63	212042700
28	40	63	212042800
29	40	63	212042900
30	40	63	212043000
31	40	63	212043100
32	40	63	212043200
33	40	63	212043300
34	40	63	212043400
35	40	63	212043500
36	40	63	212043600
37	40	63	212043700
38	40	63	212043800
39	40	63	212043900
40	40	63	212044000
41	40	63	212044100
42	40	63	212044200
43	40	63	212044300
44	40	63	212044400
45	40	63	212044500
46	40	63	212044600
47	40	63	212044700
48	40	63	212044800
49	40	63	212044900
50	40	63	212045000
55	40	63	212045500
60	40	63	212046000

Ø 6,35x77



21205 L= 50 mm

Serie lunga / Long serie / Série longue
Serie larga / Lange Ausführung

Ø	l	L	cod.
12	60	83	212051200
13	60	83	212051300
14	60	83	212051400
15	60	83	212051500
16	60	83	212051600
17	60	83	212051700
18	60	83	212051800
19	60	83	212051900
20	60	83	212052000
21	60	83	212052100
22	60	83	212052200
23	60	83	212052300
24	60	83	212052400
25	60	83	212052500
26	60	83	212052600
27	60	83	212052700
28	60	83	212052800
29	60	83	212052900
30	60	83	212053000
31	60	83	212053100
32	60	83	212053200
33	60	83	212053300
34	60	83	212053400
35	60	83	212053500
36	60	83	212053600
37	60	83	212053700
38	60	83	212053800
39	60	83	212053900
40	60	83	212054000
41	60	83	212054100
42	60	83	212054200
43	60	83	212054300
44	60	83	212054400
45	60	83	212054500
46	60	83	212054600
47	60	83	212054700
48	60	83	212054800
49	60	83	212054900
50	60	83	212055000
55	60	83	212055500
60	60	83	212056000

Ø 6,35x102



6 pcs

Ø 12-14-16-18-20-22

1 pcs

21210404

21210405

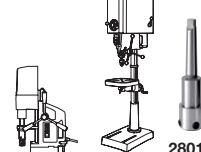
Applicazioni / Applications



R ≤ 1200 N/mm²



- Le frese a carotare, per le caratteristiche illustrate, permettono un taglio molto veloce ed economico nel ferro, acciaio da costruzione, ghisa, leghe leggere e materiali non ferrosi in genere. Speciale per piatti e lamiere in acciaio di grande spessore, tubi, putrelle, profilati etc.
- As shown, the core drills allow a very fast and economic cut in iron, structural steel, cast iron, light alloys and nonferrous metals. Special for very thick metal plates and sheets, pipes, iron beam and structural steel.
- Comme illustré, les fraises à carotter permettent un coupe très vite et économique dans le fer, l'acier de construction, la fonte, les alliages légers et les matériaux qui ne son pas ferreux. Spécial pour les plates en acier et la tôle, les tubes, poutrelles et profilés en acier.
- Las fresas para sondear, cómo ilustrado, permiten de cortar muy rápidamente y económicamente hierro, acero de construcción, fundición, aleaciones ligeras y materiales no ferrosos en general. Especial para platos de metal y planchas muy gruesos, tubos, vigas y perfilados.
- Wie illustriert erlauben die Kernbohrer einen schnellen und sparsamen Schnitt in Flacheisen, Baustahl, Gusseisen, Leichtmetall-Legierungen und Nichteisenmaterialien. Geeignet für Flächen und Bleche aus Stahl, Röhren, Eisenträger und Profilstähle.



Confezione / Packaging



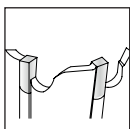
FRESE A CAROTARE CON TAGLIENTI IN METALLO DURO E CON ATTACCO WELDON PER MACCHINE A SUPPORTO MAGNETICO

Weldon shank carbide tip core drill for magnetic drilling machines / Fraises à carotter au carbure de tungstène avec Weldon queue pour machines à embase magnétique / Fresas con dientes de metal duro y mango Weldon para maquinas con base magnética

Metallo duro
Carbide

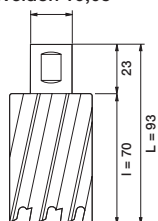
WELDON

21216

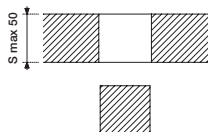
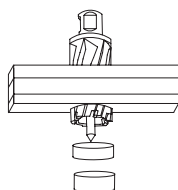


Inserti in metallo duro
Carbide tips

Weldon 19,05



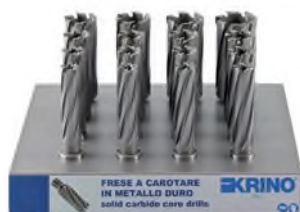
Acciaio accoppiato
Stacked steel



Serie lunga / Long serie / Série longue / Serie larga / Lange Ausführung

Ø	I	L	cod.	Ø	I	L	cod.
12	70	93	212161200	39	70	93	212163900
14	70	93	212161400	40	70	93	212164000
15	70	93	212161500	41	70	93	212164100
16	70	93	212161600	42	70	93	212164200
17	70	93	212161700	43	70	93	212164300
18	70	93	212161800	44	70	93	212164400
19	70	93	212161900	45	70	93	212164500
20	70	93	212162000	46	70	93	212164600
21	70	93	212162100	47	70	93	212164700
22	70	93	212162200	48	70	93	212164800
23	70	93	212162300	49	70	93	212164900
24	70	93	212162400	50	70	93	212165000
25	70	93	212162500	51	70	93	212165100
26	70	93	212162600	52	70	93	212165200
27	70	93	212162700	53	70	93	212165300
28	70	93	212162800	54	70	93	212165400
29	70	93	212162900	55	70	93	212165500
30	70	93	212163000	56	70	93	212165600
31	70	93	212163100	57	70	93	212165700
32	70	93	212163200	58	70	93	212165800
33	70	93	212163300	59	70	93	212165900
34	70	93	212163400	60	70	93	212166000
35	70	93	212163500	65	70	93	212166500
36	70	93	212163600	70	70	93	212167000
37	70	93	212163700	75	70	93	212167500
38	70	93	212163800	80	70	93	212168000

	Ø 6,35x112 mm per frese Ø 12 mm	21216000
	Ø 7,1x112 mm per frese Ø 14÷16 mm	21216001
	Ø 8,0x112 mm per frese Ø 17÷80 mm	21216002



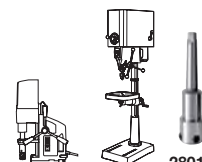
16 pcs
Ø 14-15-16-17-18-19-20-21
22-23-24-25-28-30-32-35

21210308

Applicazioni / Applications



R ≤ 1200 N/mm²



Confezione / Packaging



- Consigliate per il taglio molto veloce, economico e con grande rendimento in acciaio inox, acciai refrattari, acciai resistenti agli acidi, HARD-DOX®, 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, HARD-DOX®, WELDOX®400, steel and cast iron... Suitable for cut iron beam and rails. Recommandé pour la coupe très rapide, en l'acier inoxydable avec une grande efficacité, en acier réfractaire, inoxydable, résistant aux acides, HARD-DOX®, WELDOX®400, tous les aciers en fonte générale... Particulièrement adapté pour couper les poutres et les rails. Recomendado para el corte muy rápido y con gran eficiencia en el acero inoxidable, acero refractario, acero resistente a los ácidos, HARD-DOX®, WELDOX®400, todos los aceros en hierro fundido en general, especialmente adecuados para el corte de las vigas.

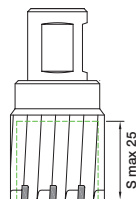
- Nota: HARD-DOX® è un acciaio resistente all'abrasione; è identificato solitamente da un numero che ne indica la durezza (HBW). WELDOX® è un acciaio ad alta resistenza, identificato da un numero che ne fornisce la resistenza a snervamento (MPa).
Note: HARD-DOX® is an abrasion resistant steel; it's defined 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 SPECIALI PER ROTAIE, CON ATTACCO WELDON PER MACCHINE A SUPPORTO MAGNETICO

Weldon shank carbide tip core drill for magnetic drilling machines / Fraises à carotter au carbure de tungstène avec Weldon queue pour machines à embase magnétique / Fresas con dientes de metal duro y mango Weldon para maquinas con base magnética

Metallo duro
Carbide

21218



Ø	I	L	cod.
19	37	60	212181900
20	37	60	212182000
21	37	60	212182100
22	37	60	212182200
23	37	60	212182300
24	37	60	212182400
25	37	60	212182500
26	37	60	212182600
26,5	37	60	212182650
27	37	60	212182700

Ø	I	L	cod.
27,5	37	60	212182750
28	37	60	212182800
29	37	60	212182900
30	37	60	212183000
31	37	60	212183100
32	37	60	212183200
33	37	60	212183300
34	37	60	212183400
35	37	60	212183500
36	37	60	212183600

Ø 8x90 **21218000**

FRESE A CAROTARE HSS-CO CON ATTACCO QUICK-IN 18 MM PER MACCHINE A SUPPORTO MAGNETICO

Quick-IN 18 mm shank HSS-CO core drill for magnetic drilling machines / HSS-CO fraises à carotter avec Quick-IN 18 mm queue pour machines à embase magnétique / Fresas HSS-CO con mango Quick-IN 18 mm para maquinas con base magnética

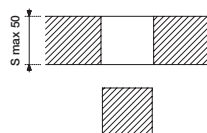
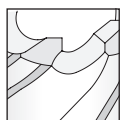
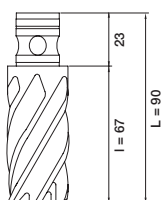
HSS-CO 5%

Quick-IN®

21211



Quick-IN 18



Serie lunga / Long serie / Série longue / Serie larga / Lange Ausführung

Ø	I	L	cod.
12	67	90	2121101200
13	67	90	2121101300
14	67	90	2121101400
15	67	90	2121101500
16	67	90	2121101600
17	67	90	2121101700
18	67	90	2121101800
19	67	90	2121101900
20	67	90	2121102000
21	67	90	2121102100
22	67	90	2121102200
23	67	90	2121102300
24	67	90	2121102400
25	67	90	2121102500
26	67	90	2121102600
27	67	90	2121102700
28	67	90	2121102800
29	67	90	2121102900
30	67	90	2121103000
31	67	90	2121103100

Ø	I	L	cod.
32	67	90	2121103200
33	67	90	2121103300
34	67	90	2121103400
35	67	90	2121103500
36	67	90	2121103600
37	67	90	2121103700
38	67	90	2121103800
39	67	90	2121103900
40	67	90	2121104000
41	67	90	2121104100
42	67	90	2121104200
43	67	90	2121104300
44	67	90	2121104400
45	67	90	2121104500
46	67	90	2121104600
47	67	90	2121104700
48	67	90	2121104800
49	67	90	2121104900
50	67	90	2121105000

Ø 6,35x102 **28016002**

Applicazioni / Applications



R ≤ 1200 N/mm²



- 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.
- Les fraises à carotter permettent une coupe rapide et économique dans l'acier inox, l'acier de construction, le fer, la fonte, les alliages légers et les métaux non ferreux. Spécial pour les plates en acier et la tôle, les tubes, les poutrelles et les profilés en acier.
- Las coronas permiten el corte rapido y economico en acero inoxidable, acero de construcción, fundición, aleaciones ligeras y materiales no ferrosos. Especial para platos de metal y chapas de gran espesor, tubos, vigas y perfilados.



16 pcs
Ø 14-15-16-17-18-19-20-21
22-23-24-25-28-3-32-35

21210309

FRESE A CAROTARE IN METALLO DURO CON ATTACCO QUICK-IN 18 MM PER MACCHINE A SUPPORTO MAGNETICO

Quick-IN 18 mm shank carbide tip core drill for magnetic drilling machines / Fraises à carotter au carbure de tungstène avec Quick-IN 18 mm queue pour machines à embase magnétique / Fresas con dientes de metal duro y mango Quick-IN 18 mm para maquinas con base magnética

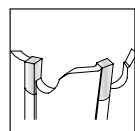
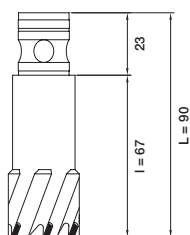
Metallo duro
Carbide

Quick-IN®

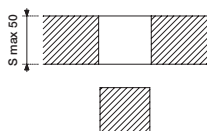
21212



Quick-IN 18



Inserti in metallo duro
Carbide tips

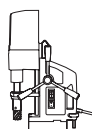


Serie lunga / Long serie / Série longue / Serie larga / Lange Ausführung

Ø	I	L	cod.
12	65	88	212121200
13	65	88	212121300
14	65	88	212121400
15	65	88	212121500
16	65	88	212121600
17	65	88	212121700
18	65	88	212121800
19	65	88	212121900
20	65	88	212122000
21	65	88	212122100
22	65	88	212122200
23	65	88	212122300
24	65	88	212122400
25	65	88	212122500
26	65	88	212122600
27	65	88	212122700
28	65	88	212122800
29	65	88	212122900
30	65	88	212123000
31	65	88	212123100
32	65	88	212123200

Ø	I	L	cod.
33	65	88	212123300
34	65	88	212123400
35	65	88	212123500
36	65	88	212123600
37	65	88	212123700
38	65	88	212123800
39	65	88	212123900
40	65	88	212124000
41	65	8	212124100
42	65	88	212124200
43	65	88	212124300
44	65	88	212124400
45	65	88	212124500
46	65	88	212124600
47	65	88	212124700
48	65	88	212124800
49	65	88	212124900
50	65	88	212125000
55	65	88	212125500
60	65	88	212126000

Confezione / Packaging



Ø 6,35x102

28016002



16 pcs

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

21210310

Applicazioni / Applications



R ≤ 1200 N/mm²



Inox



Acciaio



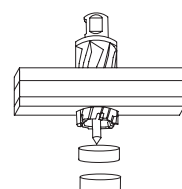
Alu



Cu Zn Ni Ms



Acciaio accoppiato
Stacked steel



- 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. Recommandé pour la coupe très rapide, en l'acier inoxydable avec une grande efficacité, en acier réfractaire, inoxydable, résistant aux acides, HARDOX®, WELDOX®400, tous les aciers en fonte générale... Particulièrement adapté pour couper les poutres et les rails. Recomendado para el corte muy rápido y con gran eficiencia en l'acero inoxidable, acero refractario, acero resistente a los ácidos, HARDOX®, WELDOX®400, todos los aceros en hierro fundido en general, especialmente adecuados para el corte de las vigas.

- 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).

Industrial

MACCHINE PERFORATRICI A SUPPORTO ELETTROMAGNETICO CON ATTACCO WELDON

Magnetic stand drilling machines / Perceuses à embase électromagnétique / Máquinas de cortar con base electromagnética / Magnetständerbohrmaschinen

28011100



CE
14 Kg

La base magnetica deve lavorare su una superficie metallica pulita spessa almeno 15 mm.
The magnetic base must adhere to a clean metallic surface with at least 15 mm. thickness.

Forza di coesione magnetica Magnetic cohesion strength	7.350 N
Potenza assorbita Absorbed power	1.100 W
Tensione in entrata Input voltage	230 V
N. giri motore Speed	780 min ⁻¹
Corsa utile Useful stroke	100 mm
Rotazione Rotation	DX Right

Dimensioni trapano / Drilling machine dimensions
270x390x100
Dimensioni confezione in plastica / Plastic case dimensions
550x400x160

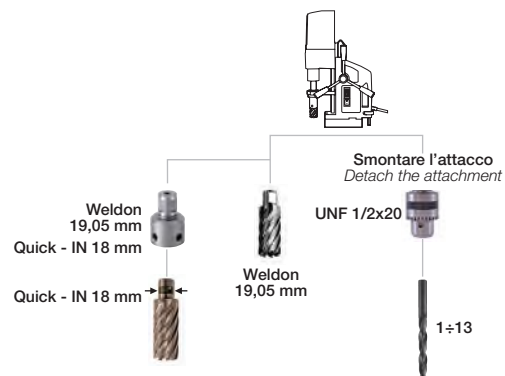
28011100

Raffreddamento Cooling	incorporato incorporated
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Capacità - Working range

Weldon 19,05  13÷35 mm

 DIN 338: 1÷13 mm



28011101



CE
23 Kg

Forza di coesione magnetica Magnetic cohesion strength	22.540 N
Potenza assorbita Absorbed power	1.850 W
Tensione in entrata Input voltage	230 V
N. giri motore - 1ª velocità Speed	450 min ⁻¹ 750 min ⁻¹
Corsa utile Useful stroke	135 mm
Rotazione Rotation	DX Right

Dimensioni trapano / Drilling machine dimensions
300x550x100
Dimensioni confezione in plastica / Plastic case dimensions
580x480x160

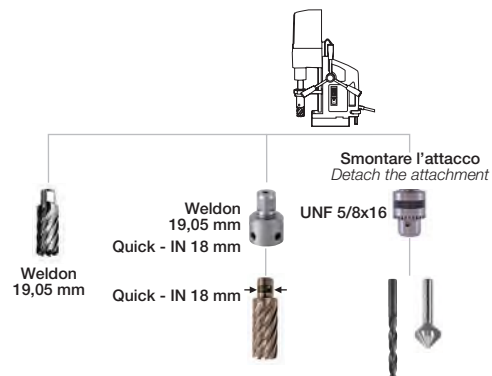
28011101

Raffreddamento Cooling	incorporato incorporated
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Capacità - Working range

Weldon 19,05  18÷60 mm

 DIN 338: 1÷16 mm



28011102



CE
23 Kg

Forza di coesione magnetica Magnetic cohesion strength	22.540 N
Potenza assorbita Absorbed power	1.850 W
Tensione in entrata Input voltage	230 V
N. giri motore - 1ª velocità Speed	450 min ⁻¹ 750 min ⁻¹
Corsa utile Useful stroke	135 mm
Rotazione Rotation	DX Right

Dimensioni trapano / Drilling machine dimensions
300x550x100
Dimensioni confezione in plastica / Plastic case dimensions
580x480x160

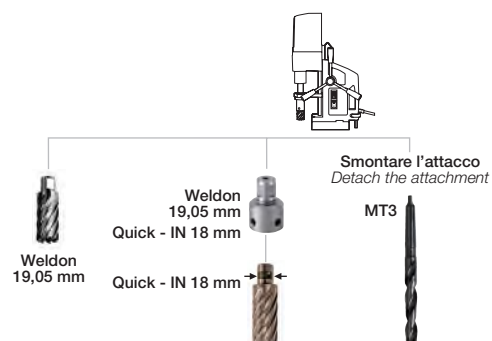
28011102

Raffreddamento Cooling	incorporato incorporated
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Capacità - Working range

Weldon 19,05  18÷60 mm

 DIN 338: 1÷16 mm
DIN 345: 1÷25 mm



ACCESSORI PER L'UTILIZZO DELLE FRESE A CAROTARE

Accessories for core drills / Accessoires pour fraises à carotter / Accesorios para coronas fresas / Zubehör für Kernbohrmaschinen

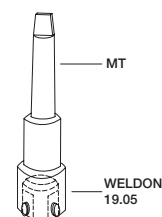
28012



Mandrino senza lubrificazione interna

Holder without lubrication / Mandrin sans lubrification
Portabroca sin lubricación / Bohrfutter ohne Schmierung

MT	L	Weldon 19,05 mm		pcs	cod.
2	160	12÷60	-	1	28012001
3	175	12÷60	28011102	1	28012002



28013



Mandrino con lubrificazione interna

Holder with lubrication / Mandrin avec lubrification
Portabroca con lubricación / Bohrfutter mit Schmierung

MT	L	Weldon 19,05 mm		pcs	cod.
2	160	12÷60	-	1	28013001
3	160	12÷60	28011102	1	28013002
2	160	12÷60	-	1	28013003
3	160	12÷60	28011102	1	28013004

28014



Mandrino a serraggio rapido con lubrificazione

Automatic quick-in arbor with interior lubrication / Mandrin à serrage automatique avec lubrification
Portabroca automático con lubricación / Automatisches Spannfutter mit Schmierung

MT	L	Weldon 19,05 mm		pcs	cod.
2	160	12÷60	-	1	28014001
3	160	12÷60	28011102	1	28014002
2	160	12÷60	-	1	28014003
3	160	12÷60	28011102	1	28014004

28015



Adattatori

Adaptors / Adaptateurs / Adaptadores / Adapter

	pcs	cod.
WELDON - 18 Quick IN	1	28015001
18 Quick IN - WELDON	1	28015002
M14 - 1/2 UNF	1	28015003
WELDON - 1/2 UNF	1	28015004

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

Espulsori

Ejector / Ejecteurs / Expulsors / Abzieher



	L	pcs	cod.
Ø 6,35 x 77	L = 63 mm	1	28016001
Ø 6,35 x 102	L = 83 mm	1	28016002
Ø 6,35 x 123	L = 83 mm	1	28016003
Ø 6,35 x 112	L = 93 mm	1	21216000
Ø 7,1 x 112	L = 93 mm	1	21216001
Ø 8,0 x 112	L = 93 mm	1	21216002
Ø 8,0 x 90	L = 60 mm	1	21218000

FRESE ROTATIVE IN HSS

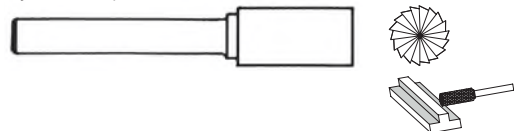
HSS rotary files / Fraises rotatives HSS / Fresas rotativas en HSS / HSS Fräserstifte

26001 26003

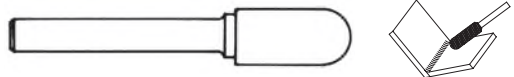


Art. 26004 Self
Disponibile su richiesta / On demand

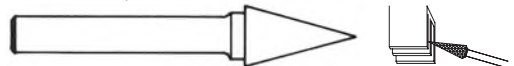
Cilindrica con taglio frontale
Cylindrical shape with end cut



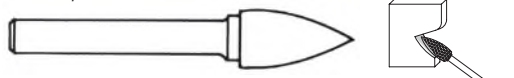
Cilindrica con testa sferica
Cylindrical shape with radius end



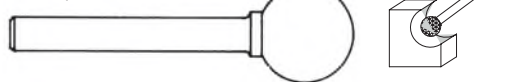
Conica a punta
Pointed tree shape



Ogiva a punta
Tree shape



Sferica
Ball shape



26001 Z2

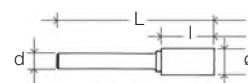


TAGLIO BASTARDO per leghe leggere, rame, ottone, bronzo, acciaio dolce.
Velocità consigliata: 220÷250 m/min.
For cutting light alloys, copper, brass, bronze, mild steel.
Cutting speed: 220÷250 m/min.

26003 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					26001 Z2	26003 Z3
Ø	/	L	d		cod.	cod.
6	20	60	6		2600100106	2600300106
8	30	70	6		2600100108	2600300108
10	30	70	6		2600100110	2600300110
12	30	70	6		2600100112	2600300112
15	30	70	6		2600100115	2600300115
6	20	60	6		2600100206	2600300206
8	30	70	6		2600100208	2600300208
10	30	70	6		2600100210	2600300210
12	30	70	6		2600100212	2600300212
15	30	70	6		2600100215	2600300215
6	20	60	6		2600100306	2600300306
8	30	70	6		2600100308	2600300308
10	30	70	6		2600100310	2600300310
12	30	70	6		2600100312	2600300312
15	30	70	6		2600100315	2600300315
6	20	60	6		2600100406	2600300406
8	30	70	6		2600100408	2600300408
10	30	70	6		2600100410	2600300410
12	30	70	6		2600100412	2600300412
15	30	70	6		2600100415	2600300415
6	5	50	6		2600100506	2600300506
8	7	52	6		2600100508	2600300508
10	9	54	6		2600100510	2600300510
12	10	55	6		2600100512	2600300512
15	14	59	6		2600100515	2600300515



5 pcs Ø10 Z2 26008203

5 pcs Ø10 Z3 26008201

5 pcs Ø12 Z2 26008204

5 pcs Ø12 Z3 26008200



Abs

10 pcs Ø10 Z2+Z3
Tutte le forme - All the shapes

26008401

10 pcs Ø12 Z2+Z3
Tutte le forme - All the shapes

26008402



Abs

5 pcs Ø10 Z3
Tutte le forme - All the shapes

26008404

5 pcs Ø12 Z3
Tutte le forme - All the shapes

26008405



50 pcs Z2+Z3: Ø 6-8-10-12-15
Tutte le forme - All the shapes

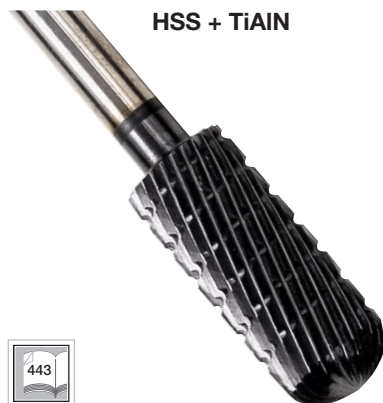
26008501

FRESE ROTATIVE HSS RIVESTITE AL TiAIN

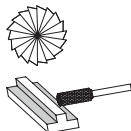
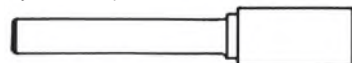
HSS TiAIN rotary files / Fraises rotatives HSS revêtues au TiAIN

Fresas rotativas HSS con recubrimiento de TiAIN - HSS Fräserstifte TiAIN-beschichtet

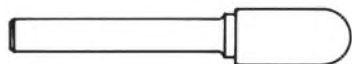
26031 26032



Cilindrica con taglio frontale
Cylindrical shape with end cut



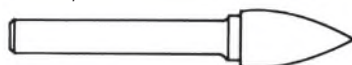
Cilindrica con testa sferica
Cylindrical shape with radius end



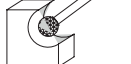
Conica a punta
Pointed tree shape



Ogiva a punta
Tree shape



Sferica
Ball shape

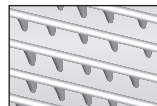


26031 Z2

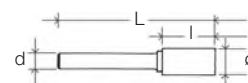


TAGLIO BASTARDO per leghe leggere, rame, ottone, bronzo, acciaio dolce.
Velocità consigliata: 220÷250 m/min.
For cutting light alloys, copper, brass, bronze, mild steel.
Cutting speed: 220÷250 m/min.

26032 Z3



Taglio mezzo dolce per acciai, ghisa. Vt 80÷220 m/min.
For cutting steel, cast iron. Cutting speed 80÷220 m/min.



HV 0,05 ≈ 3300

26031 Z2

26032 Z3

Ø	/	L	d	cod.	cod.
6	20	60	6	2603100106	2603200106
8	30	70	6	2603100108	2603200108
10	30	70	6	2603100110	2603200110
12	30	70	6	2603100112	2603200112
15	30	70	6	2603100115	2603200115
6	20	60	6	2603100206	2603200206
8	30	70	6	2603100208	2603200208
10	30	70	6	2603100210	2603200210
12	30	70	6	2603100212	2603200212
15	30	70	6	2603100215	2603200215
6	20	60	6	2603100306	2603200306
8	30	70	6	2603100308	2603200308
10	30	70	6	2603100310	2603200310
12	30	70	6	2603100312	2603200312
15	30	70	6	2603100315	2603200315
6	20	60	6	2603100406	2603200406
8	30	70	6	2603100408	2603200408
10	30	70	6	2603100410	2603200410
12	30	70	6	2603100412	2603200412
15	30	70	6	2603100415	2603200415
6	5	50	6	2603100506	2603200506
8	7	52	6	2603100508	2603200508
10	9	54	6	2603100510	2603200510
12	10	55	6	2603100512	2603200512
15	14	59	6	2603100515	2603200515



5 pcs Ø10 Z2 26035203

5 pcs Ø10 Z3 26035201

5 pcs Ø12 Z2 26035204

5 pcs Ø12 Z3 26035200



Abs

10 pcs Ø10 Z2+Z3
Tutte le forme - All the shapes

26035401

10 pcs Ø12 Z2+Z3
Tutte le forme - All the shapes

26035402



Abs

5 pcs Ø10 Z3
Tutte le forme - All the shapes

26035404

5 pcs Ø12 Z3
Tutte le forme - All the shapes

26035405



50 pcs Z2+Z3: Ø 6-8-10-12-15
Tutte le forme - All the shapes

26035501

FRESE ROTATIVE IN METALLO DURO CON TAGLI HM3 E HM4

HM3 and HM4 cut carbide rotary files / Fraises rotatives carbure avec HM3 et HM4 coupants

Fresas rotativas de metal duro con HM3 y HM4 cortantes / Hartmetall Fräserstifte HM3 und HM4

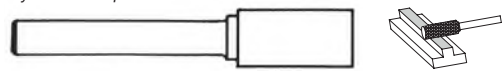
26015 26020

Metallo duro K20 / Solid carbide K20

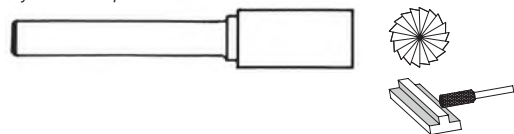
Grana fine / Fine grain
Utilizzo universale / Universal uses



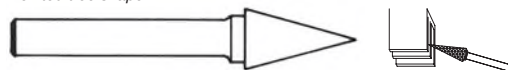
Cilindrica con fronte liscia
Cylindrical shape



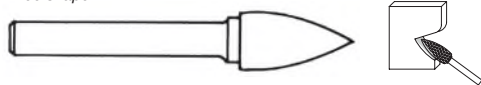
Cilindrica con taglio frontale
Cylindrical shape with end cut



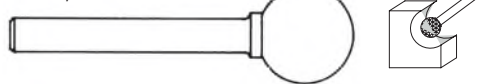
Conica a punta
Pointed tree shape



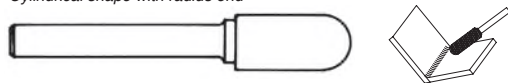
Ogiva a punta
Tree shape



Sferica
Ball shape



Cilindrica con testa sferica
Cylindrical shape with radius end



Confezione
Packaging



Applicazioni
Applications



26015 HM3



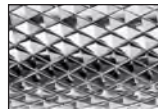
TAGLIO STANDARD per acciaio, acciaio temprato, ghisa, cordon di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti.

Velocità consigliata: 300÷400 m/min.

Standard cut in low and high tensile steel, welded points, metals.

Cutting speed: 300÷400 m/min.

26020 HM4



TAGLIO INCROCIATO per acciaio trattato, acciaio inox, materiali metallici in genere. Vibrazioni ridotte, buona finitura superficiale, ottimi rendimenti.

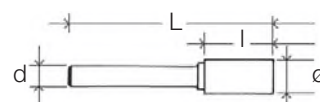
Velocità consigliata: 300÷400 m/min.

Diamond cut: finish work in high alloy steel, stainless steel, metals, less vibrations, high performances.

Cutting speed: 300÷400 m/min.

				26015 HM3	26020 HM4
Ø	/	L	d	cod.	cod.
*3	16	38	3	2601500103	2602000103
4	14	50	6	2601500104	2602000104
6	18	50	6	2601500106	2602000106
8	18	63	6	2601500108	2602000108
10	20	65	6	2601500110	2602000110
12	25	70	6	2601500112	2602000112
16	25	70	6	2601500116	2602000116
*3	16	38	3	2601500203	2602000203
4	14	50	6	2601500204	2602000204
6	18	50	6	2601500206	2602000206
8	18	63	6	2601500208	2602000208
10	20	65	6	2601500210	2602000210
12	25	70	6	2601500212	2602000212
16	25	70	6	2601500216	2602000216
*3	16	38	3	2601500303	2602000303
4	14	50	6	2601500304	2602000304
6	18	50	6	2601500306	2602000306
8	18	63	6	2601500308	2602000308
10	20	65	6	2601500310	2602000310
12	25	70	6	2601500312	2602000312
16	25	70	6	2601500316	2602000316
*3	16	38	3	2601500403	2602000403
4	14	50	6	2601500404	2602000404
6	18	50	6	2601500406	2602000406
8	18	63	6	2601500408	2602000408
10	20	65	6	2601500410	2602000410
12	25	70	6	2601500412	2602000412
16	25	70	6	2601500416	2602000416
*3	3	38	3	2601500503	2602000503
4	4	50	6	2601500504	2602000504
6	5	50	6	2601500506	2602000506
8	7	63	6	2601500508	2602000508
10	9	65	6	2601500510	2602000510
12	10	70	6	2601500512	2602000512
16	14	70	6	2601500516	2602000516
*3	16	38	3	2601500603	2602000603
4	14	50	6	2601500604	2602000604
6	18	50	6	2601500606	2602000606
8	18	63	6	2601500608	2602000608
10	20	65	6	2601500610	2602000610
12	25	70	6	2601500612	2602000612
16	25	70	6	2601500616	2602000616

* Microfresa / Micro rotary files

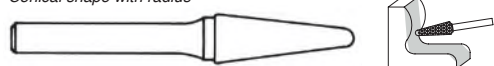


FRESE ROTATIVE IN METALLO DURO CON TAGLI HM3 E HM4

HM3 and HM4 cut carbide rotary files / Fraises rotatives carbure avec HM3 et HM4 coupants

Fresas rotativas de metal duro con HM3 y HM4 cortantes / Hartmetall Fräserstifte HM3 und HM4

Conica a punta arrotondata
Conical shape with radius



Ogiva a punta arrotondata o a fiamma
Tree shape with radius



A goccia
Drop shape



				26015 HM3	26020 HM4
Ø	/	L	d	cod.	cod.
*3	16	38	3	2601500703	2602000703
4	14	50	6	2601500704	2602000704
6	18	50	6	2601500706	2602000706
8	18	63	6	2601500708	2602000708
10	20	65	6	2601500710	2602000710
12	25	70	6	2601500712	2602000712
16	25	70	6	2601500716	2602000716
*3	16	38	3	2601500803	2602000803
4	14	50	6	2601500804	2602000804
6	18	50	6	2601500806	2602000806
8	18	63	6	2601500808	2602000808
10	20	65	6	2601500810	2602000810
12	25	70	6	2601500812	2602000812
16	25	70	6	2601500816	2602000816
*3	6	38	3	2601500903	2602000903
4	6	50	6	2601500904	2602000904
6	10	50	6	2601500906	2602000906
8	13	58	6	2601500908	2602000908
10	16	61	6	2601500910	2602000910
12	20	65	6	2601500912	2602000912
16	25	70	6	2601500916	2602000916



5 pcs Ø10 HM3 26030206

5 pcs Ø10 HM4 26030203

5 pcs Ø12 HM3 26030207

5 pcs Ø12 HM4 26030202



Abs

10 pcs Ø10 HM3+HM4
Tutte le forme - All the shapes

26030401

10 pcs Ø12 HM3+HM4
Tutte le forme - All the shapes

26030402

5 pcs Ø8 HM4
5 pcs Ø12 HM4

26030403



Abs

5 pcs Ø10 HM4



26030404

5 pcs Ø12 HM4



26030405



45 pcs
Ø 6-8-10-12-16 HM4

26030502

FRESE ROTATIVE IN METALLO DURO RIVESTITE AL TiAIN CON TAGLI HM3 E HM4

HM3 and HM4 cut carbide rotary files TiAIN coated / Fraises rotatives au carbure revêtues au TiAIN avec HM3 et HM4 coupants

Fresas rotativas de metal duro con recubrimiento de TiAIN con HM3 y HM4 cortantes / Hartmetall Fräserstifte TiAIN-beschichtet HM3 und HM4

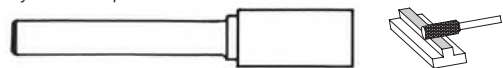
26033 26034

K20 + TiAIN / Carbide K20 + TiAIN

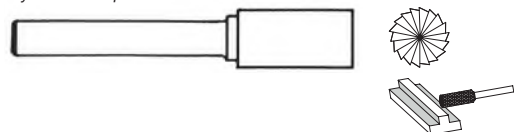
Grana fine / Fine grain
Utilizzo universale / Universal uses



Cilindrica con fronte liscia
Cylindrical shape



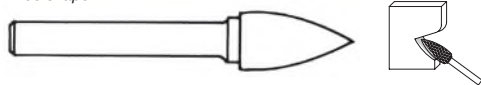
Cilindrica con taglio frontale
Cylindrical shape with end cut



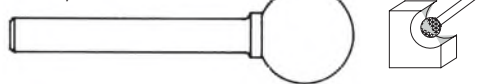
Conica a punta
Pointed tree shape



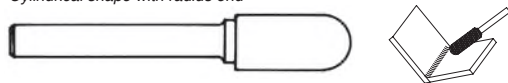
Ogiva a punta
Tree shape



Sferica
Ball shape



Cilindrica con testa sferica
Cylindrical shape with radius end



Applicazioni
Applications

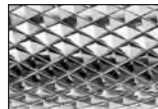


26033 HM3



TAGLIO STANDARD per acciaio, acciaio temprato, ghisa, cordon di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti. Velocità consigliata: 450÷600 m/min.
Standard cut in low and high tensile steel, welded points, metals. Cutting speed: 450÷600 m/min.

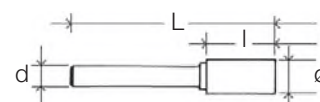
26034 HM4



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.

				26033 HM3	26034 HM4
Ø	/	L	d	cod.	cod.
*3	16	38	3	2603300103	2603400103
4	14	50	6	2603300104	2603400104
6	18	50	6	2603300106	2603400106
8	18	63	6	2603300108	2603400108
10	20	65	6	2603300110	2603400110
12	25	70	6	2603300112	2603400112
16	25	70	6	2603300116	2603400116
*3	16	38	3	2603300203	2603400203
4	14	50	6	2603300204	2603400204
6	18	50	6	2603300206	2603400206
8	18	63	6	2603300208	2603400208
10	20	65	6	2603300210	2603400210
12	25	70	6	2603300212	2603400212
16	25	70	6	2603300216	2603400216
*3	16	38	3	2603300303	2603400303
4	14	50	6	2603300304	2603400304
6	18	50	6	2603300306	2603400306
8	18	63	6	2603300308	2603400308
10	20	65	6	2603300310	2603400310
12	25	70	6	2603300312	2603400312
16	25	70	6	2603300316	2603400316
*3	16	38	3	2603300403	2603400403
4	14	50	6	2603300404	2603400404
6	18	50	6	2603300406	2603400406
8	18	63	6	2603300408	2603400408
10	20	65	6	2603300410	2603400410
12	25	70	6	2603300412	2603400412
16	25	70	6	2603300416	2603400416
*3	3	38	3	2603300503	2603400503
4	4	50	6	2603300504	2603400504
6	5	50	6	2603300506	2603400506
8	7	63	6	2603300508	2603400508
10	9	65	6	2603300510	2603400510
12	10	70	6	2603300512	2603400512
16	14	70	6	2603300516	2603400516
*3	16	38	3	2603300603	2603400603
4	14	50	6	2603300604	2603400604
6	18	50	6	2603300606	2603400606
8	18	63	6	2603300608	2603400608
10	20	65	6	2603300610	2603400610
12	25	70	6	2603300612	2603400612
16	25	70	6	2603300616	2603400616

* Microfresa / Micro rotary files

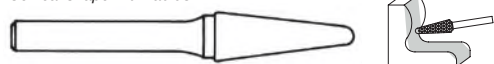


FRESE ROTATIVE IN METALLO DURO RIVESTITE AL TiAlN CON TAGLI HM3 E HM4

HM3 and HM4 cut carbide rotary files TiAlN coated / Fraises rotatives au carbure revêtues au TiAlN avec HM3 et HM4 coupants

Fresas rotativas de metal duro con recubrimiento de TiAlN con HM3 y HM4 cortantes / Hartmetall Fräserstifte TiAlN-beschichtet HM3 und HM4

Conica a punta arrotondata
Conical shape with radius



Ogiva a punta arrotondata o a fiamma
Tree shape with radius



A goccia
Drop shape



				26033 HM3	26034 HM4
Ø	/	L	d	cod.	cod.
*3	16	38	3	2603300703	2603400703
4	16	50	6	2603300704	2603400704
6	18	50	6	2603300706	2603400706
8	18	63	6	2603300708	2603400708
10	20	65	6	2603300710	2603400710
12	25	70	6	2603300712	2603400712
16	25	70	6	2603300716	2603400716
*3	16	38	3	2603300803	2603400803
4	14	50	6	2603300804	2603400804
6	18	50	6	2603300806	2603400806
8	18	63	6	2603300808	2603400808
10	20	65	6	2603300810	2603400810
12	25	70	6	2603300812	2603400812
16	25	70	6	2603300816	2603400816
*3	6	38	3	2603300903	2603400903
4	6	50	6	2603300904	2603400904
6	10	50	6	2603300906	2603400906
8	13	58	6	2603300908	2603400908
10	16	61	6	2603300910	2603400910
12	20	65	6	2603300912	2603400912
16	25	70	6	2603300916	2603400916



5 pcs Ø10 HM3 26030210

5 pcs Ø10 HM4 26030211

5 pcs Ø12 HM3 26030212

5 pcs Ø12 HM4 26030213



Abs

10 pcs Ø10 HM3+HM4

Tutte le forme - All the shapes

26030410

10 pcs Ø12 HM3+HM4

Tutte le forme - All the shapes

26030411



Abs

5 pcs Ø10 HM4



26030412

5 pcs Ø12 HM4



26030413



45 pcs Ø 6-8-10-12-16 HM4

Tutte le forme - All the shapes

26030504

FRESE ROTATIVE IN METALLO DURO CON TAGLIO HM3 PLUS

HM3 PLUS cut carbide rotary files / Fraises rotatives carbure avec HM3 PLUS coupant

Fresas rotativas de metal duro con HM3 PLUS cortantes / Hartmetall Fräserstifte HM3 PLUS

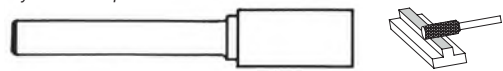
26016

Metallo duro K20 / Solid carbide K20

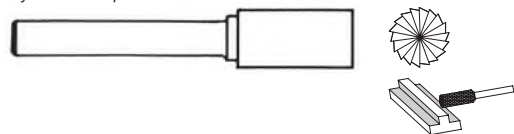
Grana fine / Fine grain
Utilizzo universale / Universal uses



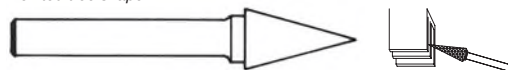
Cilindrica con fronte liscia
Cylindrical shape



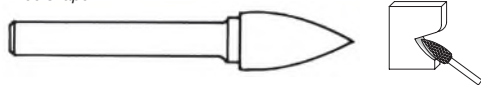
Cilindrica con taglio frontale
Cylindrical shape with end cut



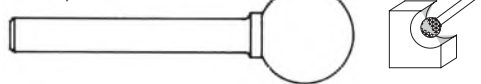
Conica a punta
Pointed tree shape



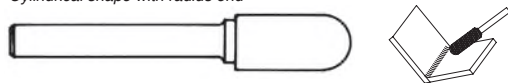
Ogiva a punta
Tree shape



Sferica
Ball shape



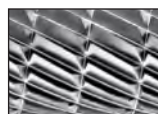
Cilindrica con testa sferica
Cylindrical shape with radius end



Applicazioni
Applications



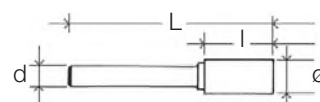
26016 HM3 PLUS



TAGLIO STANDARD CON ROMPIRUCIOLO 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.

Ø	/	L	d	cod.
*3	16	38	3	2601600103
4	14	50	6	2601600104
6	18	50	6	2601600106
8	18	63	6	2601600108
10	20	65	6	2601600110
12	25	70	6	2601600112
16	25	70	6	2601600116
*3	16	38	3	2601600203
4	14	50	6	2601600204
6	18	50	6	2601600206
8	18	63	6	2601600208
10	20	65	6	2601600210
12	25	70	6	2601600212
16	25	70	6	2601600216
*3	16	38	3	2601600303
4	14	50	6	2601600304
6	18	50	6	2601600306
8	18	63	6	2601600308
10	20	65	6	2601600310
12	25	70	6	2601600312
16	25	70	6	2601600316
*3	16	38	3	2601600403
4	14	50	6	2601600404
6	18	50	6	2601600406
8	18	63	6	2601600408
10	20	65	6	2601600410
12	25	70	6	2601600412
16	25	70	6	2601600416
*3	3	38	3	2601600503
4	4	50	6	2601600504
6	5	50	6	2601600506
8	7	63	6	2601600508
10	9	65	6	2601600510
12	10	70	6	2601600512
16	14	70	6	2601600516
*3	16	38	3	2601600603
4	14	50	6	2601600604
6	18	50	6	2601600606
8	18	63	6	2601600608
10	20	65	6	2601600610
12	25	70	6	2601600612
16	25	70	6	2601600616

* Microfresa / Micro rotary files

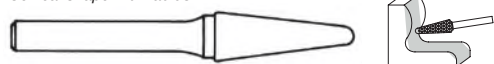


FRESE ROTATIVE IN METALLO DURO CON TAGLIO HM3 PLUS

HM3 PLUS cut carbide rotary files / Fraises rotatives carbure avec HM3 PLUS coupant

Fresas rotativas de metal duro con HM3 PLUS cortantes / Hartmetall Fräserstifte HM3 PLUS

Conica a punta arrotondata
Conical shape with radius



Ogiva a punta arrotondata o a fiamma
Tree shape with radius



A goccia
Drop shape



Ø	/	L	d	cod.
*3	16	38	3	2601600703
4	14	50	6	2601600704
6	18	50	6	2601600706
8	18	63	6	2601600708
10	20	65	6	2601600710
12	25	70	6	2601600712
16	25	70	6	2601600716
*3	16	38	3	2601600803
4	14	50	6	2601600804
6	18	50	6	2601600806
8	18	63	6	2601600808
10	20	65	6	2601600810
12	25	70	6	2601600812
16	25	70	6	2601600816
*3	6	38	3	2601600903
4	6	50	6	2601600904
6	10	50	6	2601600906
8	13	58	6	2601600908
10	16	61	6	2601600910
12	20	65	6	2601600912
16	25	70	6	2601600916



Abs

5 pcs Ø10



26030416

5 pcs Ø12 HM4



26030417

5 pcs Ø8

5 pcs Ø12



26030415

FRESE ROTATIVE IN METALLO DURO, SERIE LUNGA

Carbide rotary files, long series - Fraises rotatives carbure, série longue

Fresas rotativas de metal duro, serie larga - Hartmetall Fräserstifte, lange Ausführung

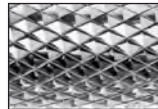
26028 26027

Metallo duro K20 / Solid carbide K20

Grana fine / Fine grain
Utilizzo universale / Universal uses



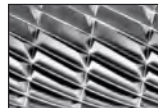
26028 HM4



TAGLIO INCROCIATO per acciaio trattato, acciaio inox, materiali metallici in genere. Vibrazioni ridotte, buona finitura superficiale, ottimi rendimenti. Velocità consigliata: 300÷400 m/min.

Diamond cut: finish work in high alloy steel, stainless steel, metals, less vibrations, high performances. Cutting speed: 300÷400 m/min.

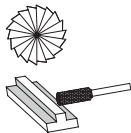
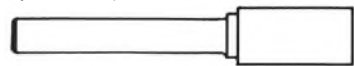
26027 HM3 PLUS



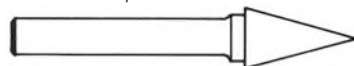
TAGLIO STANDARD CON ROMPITRUCIOLO per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti. Velocità consigliata: 450÷600 m/min.

Standard cut with chip breaker in low and high tensile steel, welded points, metals. Cutting speed: 450÷600 m/min.

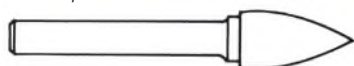
Cilindrica con taglio frontale
Cylindrical shape with end cut



Conica a punta
Pointed tree shape



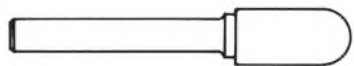
Ogiva a punta
Tree shape



Sferica
Ball shape



Cilindrica con testa sferica
Cylindrical shape with radius end

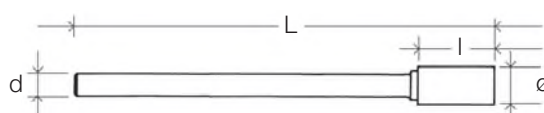


				26028 HM4	26027 HM3 PLUS
Ø	/	L	d	cod.	cod.
8	18	120	6	2602800208	2602700208
12	25	120	6	2602800212	2602700212
8	18	120	6	2602800308	2602700308
12	25	120	6	2602800312	2602700312
8	18	120	6	2602800408	2602700408
12	25	120	6	2602800412	2602700412
8	7	120	6	2602800508	2602700508
12	10	120	6	2602800512	2602700512
8	18	120	6	2602800608	2602700608
12	25	120	6	2602800612	2602700612

Confezione
Packaging



Applicazioni
Applications



FRESE ROTATIVE IN METALLO DURO, SPECIALE PER ALLUMINIO

Cobalt twist drills ground from the solid / Forets cylindriques au cobalt entièrement rectifiés

Broca helicoidal rectificada de cobalto / Kobalt Spiralbohrer

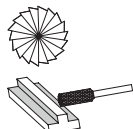
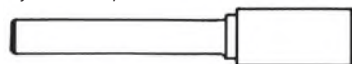
26025

Metallo duro K20 / Solid carbide K20

Grana fine / Fine grain
Utilizzo universale / Universal uses

Alu

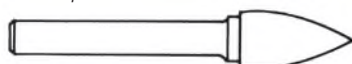
Cilindrica con taglio frontale
Cylindrical shape with end cut



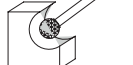
Conica a punta
Pointed tree shape



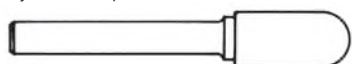
Ogiva a punta
Tree shape



Sferica
Ball shape



Cilindrica con testa sferica
Cylindrical shape with radius end



HM1



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.

				26025 Serie corta / Short serie	26026 L=120mm Serie lunga / Long serie
Ø	/	L	d	cod.	cod.
6	18	61	6	2602500206	-
8	18	65	6	2602500208	2602600208
10	20	65	6	2602500210	-
12	25	70	6	2602500212	2602600212
16	25	70	6	2602500216	-
6	18	63	6	2602500306	-
8	18	65	6	2602500308	2602600308
10	20	65	6	2602500310	-
12	25	70	6	2602500312	2602600312
16	25	70	6	2602500316	-
6	18	63	6	2602500406	-
8	18	65	6	2602500408	2602600408
10	20	65	6	2602500410	-
12	25	70	6	2602500412	2602600412
16	25	70	6	2602500416	-
6	5	50	6	2602500506	-
8	7	52	6	2602500508	2602600508
10	9	54	6	2602500510	-
12	10	56	6	2602500512	2602600512
16	14	60	6	2602500516	-
6	18	61	6	2602500606	-
8	18	65	6	2602500608	2602600608
10	20	65	6	2602500610	-
12	25	70	6	2602500612	2602600612
16	25	70	6	2602500616	-

Confezione
Packaging



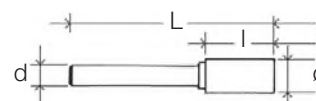
Applicazioni
Applications



5 pcs Ø10



26030430



SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE

HSS bimetal hole saws / Scies tréfans bimetal HSS

Coronas perforadoras bimetalicas HSS / HSS-bimetal Lochsägen

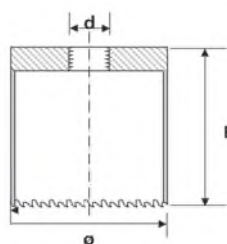
21060
21062



Variabile - Variable Z 4-6



BIM. - HSS M3/1



h	ø
57±1	14÷17
51±1	19÷37
44±1	38÷305

Art. **21068** Self

Disponibile su richiesta / On demand

Confezione / Packaging



21060

21062

Applicazioni / Applications



- 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, max. profondità di foratura 5 mm.
- 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... Max. cutting depth: 13/64.
- Scies cloches bimetal-HSS à denture progressive pour l'emploi professionnel. Pour percer les métaux, fer, fonte, acier inox, bois, plastique. Profondeur de coupe: 5 mm.
- Coronas perforadoras bimetalicas HSS con diente variable y angulo positivo para taladrar acero, laton, bronce, aluminio, madera, plastico etc. Profundidad de corte: 5 mm.
- HSS Bi-Metall-Lochsägen mit vario-verzahnung für schnellen Bohrfortschritt in Stahl, Guss, Kupfer, Bronze, Aluminium, Kunststoffe, Gipskarton, Holz.

HSS M3/1

21060

21062

Ø mm	Ø Pollici Inch	d Filetto Thread	cod.	cod.
14	9/16	UNF 1/2 x 20	2106001400	2106201400
16	5/8		2106001600	2106201600
17	11/16		2106001700	2106201700
19	3/4		2106001900	2106201900
20			2106002000	2106202000
21	13/16		2106002100	2106202100
22	7/8		2106002200	2106202200
24	15/16		2106002400	2106202400
25	1"		2106002500	2106202500
27	1,1/16		2106002700	2106202700
29	1,1/8		2106002900	2106202900
30	1,3/16		2106003000	2106203000
32	1,1/4	UNF 5/8 x 18	2106003200	2106203200
33	1,5/16		2106003300	2106203300
35	1,3/8		2106003500	2106203500
37	1,7/16		2106003700	2106203700
38	1,1/2		2106003800	2106203800
40	1,9/16		2106004000	2106204000
41	1,5/8		2106004100	2106204100
43	1,11/16		2106004300	2106204300
44	1,3/4		2106004400	2106204400
45	-		2106004500	2106204500
46	1,13/16		2106004600	2106204600
48	1,7/8		2106004800	2106204800
50	-		2106005000	2106205000
51	2"		2106005100	2106205100
52	2,1/16		2106005200	2106205200
54	2,1/8		2106005400	2106205400
55	-		2106005500	2106205500
56	-		2106005600	2106205600
57	2,1/4		2106005700	2106205700
59	2,5/16		2106005900	2106205900
60	2,3/8		2106006000	2106206000
62	-		2106006200	2106206200
64	2,1/2		2106006400	2106206400
65	2,9/16		2106006500	2106206500
67	2,5/8		2106006700	2106206700
68	-		2106006800	2106206800
70	2,3/4		2106007000	2106207000
73	2,7/8		2106007300	2106207300
75	-		2106007500	2106207500
76	3"		2106007600	2106207600
79	3,1/8		2106007900	2106207900
83	3,1/4		2106008300	2106208300
86	3,3/8		2106008600	2106208600
89	3,1/2		2106008900	2106208900
92	3,5/8		2106009200	2106209200
95	3,3/4		2106009500	2106209500
98	3,7/8		2106009800	2106209800
100	-		2106010000	2106210000
102	4"		2106010200	2106210200
105	4,1/8		2106010500	2106210500
108	4,1/4		2106010800	2106210800
111	4,3/8		2106011100	2106211100
114	4,1/2		2106011400	2106211400
121	4,3/4		2106012100	2106212100
127	5"		2106012700	2106212700
133	5,1/4		2106013300	2106213300
140	5,1/2		2106014000	2106214000
146	5,3/4"		2106014600	2106214600
152	6"		2106015200	2106215200
160	6,5/16		2106016000	-
168	6,5/8		2106016800	-
177	6,31/32		2106017700	-
200	7,7/8		2106020000	-
210	8,5/16		2106021000	-
220	8",3/4		2106022000	-
233	9",1/8		2106023300	-
250	9",7/8		2106025000	-
260	10",1/4		2106026000	-
265	10",1/2		2106026500	-
280	11"		2106028000	-
305	12"		2106030500	-

ALBERI PER SEGHE A TAZZA BIMETAL (INTERCAMBIABILI CON QUALSIASI ALTRA MARCA)

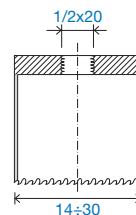
Arbors for bimetal hole saws / Arbres de montage pour scies trépan bimetal

Husillos para coronas bimetálicas / Aufnahmeschäfte

ALBERI PER SEGHE BIMETAL Ø 14÷30 mm - Fit hole saws Ø 14÷30

210705514	210705515 Q.C.	210705519 210705519B	210705518	210705519 SDS 210705519 SDSB	Per seghe Fit hole saws	d mm	cod.
					Ø 14 ÷ 30	Ø 6,35	210705514
					Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515
					Ø 14 ÷ 17	HEX 8,5	210705519B
					Ø 19 ÷ 30	HEX 8,5	210705519
					Ø 14 ÷ 30	HEX 11	210705518
					Ø 14 ÷ 17	SDS PLUS	210705519SDSB
					Ø 19 ÷ 30	SDS PLUS	210705519SDS

SDS-PLUS



ALBERI PER SEGHE BIMETAL Ø 32÷305 mm - Fit hole saws Ø 32÷305

210705520	210705521 Q.C.	210705546	210705547	210705548 Q.C.	Per seghe Fit hole saws	d mm	cod.
					Ø 32 ÷ 305	HEX 11	210705520
					Ø 32 ÷ 305	HEX 6,35 Q.C.	210705521
					Ø 32 ÷ 305	HEX 8,5	210705546
					Ø 32 ÷ 305	HEX 11	210705547
					Ø 32 ÷ 305	HEX 8,5 Q.C.	210705548
					Ø 32 ÷ 305	SDS PLUS	210705546SDS
					Ø 32 ÷ 305	SDS PLUS	210705549SDS
					Ø 32 ÷ 305	HEX 11	210705545
					Ø 32 ÷ 305	HEX 16	210705573

210705546 SDS

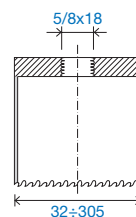
210705549 SDS

210705546

210705545

SDS-PLUS

SDS-PLUS



Art. 21071 Self
Disponibile su richiesta / On demand

21070200	21070202	21070201	21070300	21070302	Punta pilota Pilot drill	Per alberi Fit arbors	cod.
					Ø 6,35 x 105	5514-5520 5545-5573-5518	21070200
					Ø 6,35 x 90	5519B-5519SDSB	21070202
					Ø 6,35 x 80	5515-5519-5519SDS 5521-5546-5546SDS 5547-5548-5549SDS	21070201
					Adattatore - montato su alberi 5514-5519 permette di portare frese da Ø 32 a Ø 305 Arbor adapter - Allows 5514-5519 to be used with 1.1/4" through 6" hole saws		21070300
					Prolunga - HEX 11 L = 300 mm 12" extension - to be used with arbors 5518-5520-5547-5545		21070302

Confezione
Packaging



Professional

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS IN VALIGETTE DI PLASTICA

HSS Bi-metal hole saws kits in plastic cases / Assortiments de scies trépan HSS bimetal en coffret plastique

Juegos de coronas perforadoras bimetalica HSS en estuche de plastico / HSS Lochsägen Sortimente in Plastikköfferchen

Variable - Variable Z 4-6



BIM. - HSS M3/1

Kit per elettricisti - Electrician's kit

Kit per idraulici - Plumber's kit



Cod.	Composizione Description
21080201K Ø 22÷64 6 pcs	Ø 22-29-35 5519 - 5546 44-51-64 1
21080202K Ø 16÷51 (METRIC) 6 pcs	Ø 16-20-25 5519 - 5546 32-40-51 1



Cod.	Composizione Description
21080209K Ø 22÷68 7 pcs	Ø 22-29-35 5519 - 5546 38-44-51 1 68
21080207K Ø 16÷60 (Pg 9÷48) 13 pcs	Ø 16-19-20-21 5519 - 5546 22-25-29-32 1 38-48-51-54 1 60



Cod.	Composizione Description
21080204K Ø 19÷57 6 pcs	Ø 19-22-29 5519 - 5546 38-44-57 1

Kit per installatori - Journeyman's kit



Cod.	Composizione Description
21080205K Ø 19÷64 9 pcs	Ø 19-22-29-35 5519 - 5546 38-44-51-57 1 64 1



Cod.	Composizione Description
21080211K Ø 20÷64 11 pcs	Ø 20-22-25-30 5519 - 5546 32-35-40-44 1 51-60-64

Kit per installatori - Journeyman's kit

Kit industriale - Industrial kit



Cod.	Composizione Description
21080212K Ø 19÷83 11 pcs	Ø 19-22-25-30 5519 - 5546 35-40-51-60 1 64-76-83



Cod.	Composizione Description
21080206K Ø 19÷114 15 pcs	Ø 19-22-29-35 5519 - 5546 38-44-51-57 1 64-76-83-92 95-105-114

ESPOSITORE SEGHE A TAZZA BIMETALLICHE HSS

Bimetal hole saws display - Display de scies trépan bimetal
Expositor de coronas bimetalicas - Lochsägen Sortimente

21080504K



23x18x50 cm

Cod.	Composizione Description	
21080504K Ø 16÷102 49 pcs	Ø Sega Hole saw	pcs
	16	2
	19	2
	20	2
	22	2
	25	2
	30	2
	32	2
	35	2
	38	2
	40	2
	48	2
	51	2
	57	2
	60	2
	70	2
	83	2
	102	2
	5519 14÷30	4
	5546 32÷210	6
	21070201	5

21080503K



Cod.	Composizione Description	
21080503K Ø 16÷83 24 pcs	Ø Sega Hole saw	pcs
	16	1
	19	1
	20	1
	22	1
	25	1
	27	1
	29	1
	30	1
	32	1
	35	1
	38	1
	40	1
	44	1
	51	1
	54	1
	60	1
	64	1
	70	1
	76	1
	83	1
	5519 14÷30	2
	5546 32÷210	2

Professional

SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE

HSS bimetal hole saws / Scies tréplans bimetal HSS

Coronas perforadoras bimetalicas HSS / HSS-bimetall Lochsägen

Personalizza con il tuo logo

Put your private label

Finitura nera / Black finish

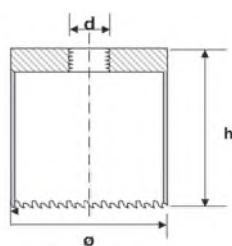
21066



Variabile - Variable Z 4-6



BIM. - HSS M3/1



h	ø
57±1	14÷17
51±1	19÷37
44±1	38÷210

Confezione / Packaging



Esempio Krino
Krino example

HSS M3/1

Ø mm	Ø Pollici Inch	d Filetto Thread	cod.
14	9/16	UNF 1/2 x 20	2106601400
16	5/8		2106601600
17	11/16		2106601700
19	3/4		2106601900
20			2106602000
21	13/16		2106602100
22	7/8		2106602200
24	15/16		2106602400
25	1"		2106602500
27	1,1/16		2106602700
29	1,1/8		2106602900
30	1,3/16		2106603000
32	1,1/4	UNF 5/8 x 18	2106603200
33	1,5/16		2106603300
35	1,3/8		2106603500
37	1,7/16		2106603700
38	1,1/2		2106603800
40	1,9/16		2106604000
41	1,5/8		2106604100
43	1,11/16		2106604300
44	1,3/4		2106604400
45	-		2106604500
46	1,13/16		2106604600
48	1,7/8		2106604800
50	-		2106605000
51	2"		2106605100
52	2,1/16		2106605200
54	2,1/8		2106605400
55	-		2106605500
56	-		2106605600
57	2,1/4		2106605700
59	2,5/16		2106605900
60	2,3/8		2106606000
62	-		2106606200
64	2,1/2		2106606400
65	2,9/16		2106606500
67	2,5/8		2106606700
68	-		2106606800
70	2,3/4		2106607000
73	2,7/8		2106607300
75	-		2106607500
76	3"		2106607600
79	3,1/8		2106607900
83	3,1/4		2106608300
86	3,3/8		2106608600
89	3,1/2		2106608900
92	3,5/8		2106609200
95	3,3/4		2106609500
98	3,7/8		2106609800
100	-		2106610000
102	4"		2106610200
105	4,1/8		2106610500
108	4,1/4		2106610800
111	4,3/8		2106611100
114	4,1/2		2106611400
121	4,3/4		2106612100
127	5"		2106612700
133	5,1/4		2106613300
140	5,1/2		2106614000
146	5,3/4"		2106614600
152	6"		2106615200
160	6,5/16		2106616000
168	6,5/8		2106616800
177	6,31/32		2106617700
190	7,1/2		2106619000
200	7,7/8		2106620000
210	8,5/16		2106621000

Applicazioni / Applications



- 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, max. profondità di foratura 5 mm.
- 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... Max. cutting depth: 13/64
- Scies cloches bimetal-HSS à denture progressive pour l'emploi professionnel. Pour percer les métaux, fer, fonte, acier inox, bois, plastique. Profondeur de coupe: 5 mm
- Coronas perforadoras bimetalicas HSS con diente variable y angulo positivo para taladrar acero, laton, bronce, aluminio, madera, plastico etc. Profundidad de corte: 5 mm.
- HSS Bi-Metall-Lochsägen mit vario-verzahnung für schnellen Bohrfortschritt in Stahl, Guss, Kúpfer, Bronze, Aluminium, Kunststoffe, Gipskarton, Holz.

ALBERI PER SEGHE A TAZZA BIMETAL (INTERCAMBIABILI CON QUALSIASI ALTRA MARCA)

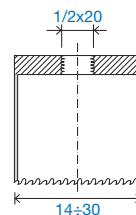
Arbors for bimetal hole saws / Arbres de montage pour scies trépan bimetal

Husillos para coronas bimetálicas / Aufnahmeschäfte

ALBERI PER SEGHE BIMETAL Ø 14÷30 mm - Fit hole saws Ø 14÷30

210705514	210705515 Q.C.	210705519 210705519B	210705518	210705519 SDS 210705519 SDSB	Per seghe Fit hole saws	d mm	cod.
					Ø 14 ÷ 30	Ø 6,35	210705514
					Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515
					Ø 14 ÷ 17	HEX 8,5	210705519B
					Ø 19 ÷ 30	HEX 8,5	210705519
					Ø 14 ÷ 30	HEX 11	210705518
					Ø 14 ÷ 17	SDS PLUS	210705519SDSB
					Ø 19 ÷ 30	SDS PLUS	210705519SDS

SDS-PLUS



ALBERI PER SEGHE BIMETAL Ø 32÷210 mm - Fit hole saws Ø 32÷210

210705520	210705521 Q.C.	210705546	210705547	210705548 Q.C.	Per seghe Fit hole saws	d mm	cod.
					Ø 32 ÷ 210	HEX 11	210705520
					Ø 32 ÷ 210	HEX 6,35 Q.C.	210705521
					Ø 32 ÷ 210	HEX 8,5	210705546
					Ø 32 ÷ 210	HEX 11	210705547
					Ø 32 ÷ 210	HEX 8,5 Q.C.	210705548
					Ø 32 ÷ 210	SDS PLUS	210705546SDS
					Ø 32 ÷ 210	SDS PLUS	210705549SDS
					Ø 32 ÷ 210	HEX 11	210705545
					Ø 32 ÷ 210	HEX 16	210705573

210705546 SDS

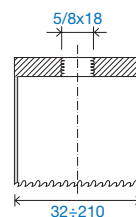
210705549 SDS

210705545

210705573

SDS-PLUS

SDS-PLUS



21070200	21070202	21070201	21070300	21070302	Punta pilota Pilot drill	Per alberi Fit arbors	cod.
					Ø 6,35 x 105	5514-5520 5545-5573-5518	21070200
					Ø 6,35 x 90	5519B-5519SDSB	21070202
					Ø 6,35 x 80	5515-5519-5519SDS 5521-5546-5546SDS 5547-5548-5549SDS	21070201
					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
					Prolunga - HEX 11 L = 300 mm 12" extension - to be used with arbors 5518-5520-5547-5545		21070302

Confezione
Packaging



Esempio Krino
Krino example

Professional

ASSORTIMENTI PERSONALIZZABILI SEGHE A TAZZA BIMETALLICHE HSS IN VALIGETTE DI PLASTICA

HSS Bi-metal hole saws kits in customizable plastic cases / Assortiments de scies tréfans HSS bimetal en coffret plastique

Juegos de coronas perforadoras bimetalica HSS en estuche de plastico / HSS Lochsägen Sortimente in Plastikköfferchen

Variabile - Variable Z 4-6



BIM. - HSS M3/1

Esempi Krino - Krino examples

Kit per elettricisti - Electrician's kit

Kit per idraulici - Plumber's kit



Cod.	Composizione Description
21080201N Ø 22÷64 6 pcs	Ø 22-29-35 5519 - 5546 44-51-64 1
21080202N Ø 16÷51 (METRIC) 6 pcs	Ø 16-20-25 5519 - 5546 32-40-51 1



Cod.	Composizione Description
21080209N Ø 22÷68 7 pcs	Ø 22-29-35 5519 - 5546 38-44-51 1 68
21080207N Ø 16÷60 (Pg 9÷48) 13 pcs	Ø 16-19-20-21 5519 - 5546 22-25-29-32 1 38-48-51-54 1 60



Cod.	Composizione Description
21080204N Ø 19÷57 6 pcs	Ø 19-22-29 5519 - 5546 38-44-57 1

Kit per installatori - Journeyman's kit



Cod.	Composizione Description
21080205N Ø 19÷64 9 pcs	Ø 19-22-29-35 5519 - 5546 38-44-51-57 1 64 1



Cod.	Composizione Description
21080211N Ø 20÷64 11 pcs	Ø 20-22-25-30 5519 - 5546 32-35-40-44 1 51-60-64

Kit per installatori - Journeyman's kit

Kit industriale - Industrial kit



Cod.	Composizione Description
21080212N Ø 19÷83 11 pcs	Ø 19-22-25-30 5519 - 5546 35-40-51-60 1 64-76-83



Cod.	Composizione Description
21080206N Ø 19÷114 15 pcs	Ø 19-22-29-35 5519 - 5546 38-44-51-57 1 64-76-83-92 95-105-114

ESPOSITORE **PERSONALIZZABILE** SEGHE A TAZZA BIMETALLICHE HSS

Bimetal hole saws customizable display - Display de scies tréfans bimetal
Expositor de coronas bimetalicas - Lochsägen Sortimente

21080504N

Personalizza con il tuo logo
Put your private label



23x18x50 cm

Cod.	Composizione Description	
21080504N Ø 16÷102 49 pcs	Ø Sega Hole saw	pcs
	16	2
	19	2
	20	2
	22	2
	25	2
	30	2
	32	2
	35	2
	38	2
	40	2
	48	2
	51	2
	57	2
	60	2
	70	2
	83	2
	102	2
	5519 14÷30	4
	5546 32÷210	6
	21070201	5

Esempi Krino - Krino examples

21080503N

Personalizza con il tuo logo
Put your private label



Cod.	Composizione Description	
21080503N Ø 16÷83 24 pcs	Ø Sega Hole saw	pcs
	16	1
	19	1
	20	1
	22	1
	25	1
	27	1
	29	1
	30	1
	32	1
	35	1
	38	1
	40	1
	44	1
	51	1
	54	1
	60	1
	64	1
	70	1
	76	1
	83	1
	5519 14÷30	2
	5546 32÷210	2

Esempi Krino - Krino examples

SEGHE A TAZZA BIMETALLICHE AL COBALTO 8% AISI M42 A DENTATURA VARIABILE

HSS-CO 8% AISI M42 bimetal hole saws with variable teeth / Scies trépan bimétalliques HSS-CO 8% AISI M42 avec denture variable

Coronas perforadoras bimetalicas HSS-CO 8% AISI M42 con dentadura variable / HSS-CO 8% AISI M42 Bimetal Lochsägen mit veränderbarer Zahnung

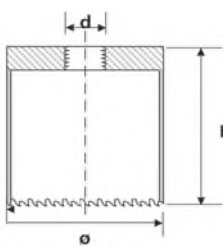
21090
21092



Variabile: nuovo disegno dei denti più performanti Z 4-6
Variable: new upgrade teeth design Z 4-6



BIM. - HSS-CO 8% AISI M42



h	ø
67±1	14÷17
61±1	19÷37
54±1	38÷152
44±1	160÷305



Microdurezza verificata direttamente sul tagliente
Micro-hardness tested directly on the cutting tooth

Confezione / Packaging



21090 **21092**

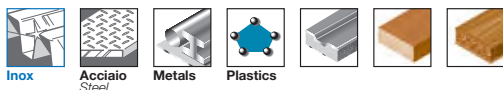
HSS-CO8% M42

21090

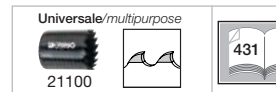
21092

Ø mm	Ø Pollici Inch	d Filetto Thread	cod.	cod.
14	9/16	UNF 1/2 x 20	2109001400	2109201400
16	5/8		2109001600	2109201600
17	11/16		2109001700	2109201700
19	3/4		2109001900	2109201900
20	-		2109002000	2109202000
21	13/16		2109002100	2109202100
22	7/8		2109002200	2109202200
24	15/16		2109002400	2109202400
25	1"		2109002500	2109202500
27	1,1/16		2109002700	2109202700
29	1,1/8		2109002900	2109202900
30	1,3/16		2109003000	2109203000
32	1,1/4	UNF 5/8 x 18	2109003200	2109203200
33	1,5/16		2109003300	2109203300
35	1,3/8		2109003500	2109203500
37	1,7/16		2109003700	2109203700
38	1,1/2		2109003800	2109203800
40	1,9/16		2109004000	2109204000
41	1,5/8		2109004100	2109204100
43	1,11/16		2109004300	2109204300
44	1,3/4		2109004400	2109204400
45	-		2109004500	2109204500
46	1,13/16		2109004600	2109204600
48	1,7/8		2109004800	2109204800
50	-		2109005000	2109205000
51	2"		2109005100	2109205100
52	2,1/16		2109005200	2109205200
54	2,1/8		2109005400	2109205400
57	2,1/4		2109005700	2109205700
59	2,5/16		2109005900	2109205900
60	2,3/8		2109006000	2109206000
64	2,1/2		2109006400	2109206400
65	2,9/16		2109006500	2109206500
67	2,5/8		2109006700	2109206700
68	-		2109006800	2109206800
70	2,3/4		2109007000	2109207000
73	2,7/8		2109007300	2109207300
75	-		2109007500	2109207500
76	3"		2109007600	2109207600
79	3,1/8		2109007900	2109207900
83	3,1/4		2109008300	2109208300
86	3,3/8		2109008600	2109208600
89	3,1/2		2109008900	2109208900
92	3,5/8		2109009200	2109209200
95	3,3/4		2109009500	2109209500
98	3,7/8		2109009800	2109209800
100	-		2109010000	2109210000
102	4"		2109010200	2109210200
105	4,1/8		2109010500	2109210500
108	4,1/4		2109010800	2109210800
111	4,3/8		2109011100	2109211100
114	4,1/2		2109011400	2109211400
121	4,3/4		2109012100	2109212100
127	5"		2109012700	2109212700
140	5,1/2		2109014000	2109214000
146	5,3/4"		2109014600	-
152	6"		2109015200	2109215200
160	6,5/16		2109016000	-
168	6,5/8		2109016800	-
177	6,31/32		2109017700	-
200	7,7/8		2109020000	-
210	8,5/16		2109021000	-
220	8",3/4		2109022000	-
233	9", 1/8		2109023300	-
250	9", 7/8		2109025000	-
260	10", 1/4		2109026000	-
265	10", 1/2		2109026500	-
280	11"		2109028000	-
305	12"		2109030500	-

Applicazioni / Applications



- 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.
- Scies trépan de haute qualité avec tranchants au HSS-CO 8% pour les travaux les plus durs; coupe professionnel et profond dans l'acier **inoxydable**, aciers durs, fonte, aluminium, bronze, laiton, bois dur et produits dérivés, résines synthétiques, laminés plastiques, caoutchouc dur, etc.
- Coronas perforadoras de calidad con cortes de HSS-CO 8% para los trabajos más gravosos; corte profesional y profundo en acero **inoxidable**, aceros duros, fundición, aluminio, bronce, latón, madera dura y productos derivados, resinas sintéticas, laminados plásticos, goma dura, etc.
- Qualitativen Lochsägen mit Schneiden aus HSS-CO 8% für die härtesten Berufe. Beruflich Tiefschnitt im **rostfreien** Stahl, Hartstähle, Gusseisen, Aluminium, Bronze, Messing, Hartholz und Holzprodukte, Kunstharze, Kautschuk, etc.



ALBERI PER SEGHE A TAZZA BIMETAL HSS-CO 8%

Arbors for HSS-CO 8% bimetal hole saws / Arbres de montage pour scies trépan bimetal HSS-CO 8%

Husillos para coronas bimetálicas HSS-CO 8% / Aufnahmeschäfte für HSS-CO 8% Lochsägen

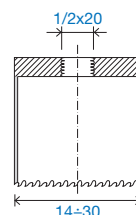
ALBERI PER SEGHE BIMETAL Ø 14÷30 mm - Fit hole saws Ø 14÷30

210705514B 210705515B 210705519B 210705518B 210705519 SDSB



SDS-PLUS

Per seghe Fit hole saws	d mm	cod.
Ø 14 ÷ 30	Ø 6,35	210705514B
Ø 14 ÷ 30	HEX 6,35 Q.C.	210705515B
Ø 19 ÷ 30	HEX 8,5	210705519B
Ø 14 ÷ 30	HEX 11	210705518B
Ø 19 ÷ 30	SDS PLUS	210705519SDSB

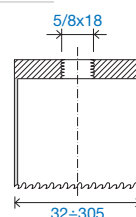


ALBERI PER SEGHE BIMETAL Ø 32÷305 mm - Fit hole saws Ø 32÷305

210705520B 210705521B 210705546B 210705547B 210705548B



Per seghe Fit hole saws	d mm	cod.
Ø 32 ÷ 305	HEX 11	210705520B
Ø 32 ÷ 305	HEX 6,35 Q.C.	210705521B
Ø 32 ÷ 305	HEX 8,5	210705546B
Ø 32 ÷ 305	HEX 11	210705547B
Ø 32 ÷ 305	HEX 8,5 Q.C.	210705548B
Ø 32 ÷ 305	SDS PLUS	210705546SDSB
Ø 32 ÷ 305	SDS PLUS	210705549SDSB
Ø 32 ÷ 305	HEX 11	210705545B
Ø 32 ÷ 305	HEX 16	210705573B
Ø 32 ÷ 305	HEX 8,5	210705546
Ø 32 ÷ 305	HEX 11	210705545



210705546 SDSB 210705549 SDSB 210705545B 210705573B



SDS-PLUS

SDS-PLUS

21070203 21070204 21070202 21070300 21070302



Punta pilota Pilot drill	Per alberi Fit arbors	cod.
Ø 6,35 x 115	5514B-5520B 5545B-5573B-5518B	21070203
Ø 6,35 x 100	5519L-5519SDSL	21070204
Ø 6,35 x 90	5515B-5519B-5519SDSB 5521B-5546B-5546SDSB 5547B-5548B-5549SDSB	21070202
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
Prolunga - HEX 11 L = 300 mm 12" extension - to be used with arbors 5518B-5520B-5547B-5545B		21070302

Confezione
Packaging



Industrial

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS-CO 8%

HSS-CO 8% Bi-metal hole saws kits / Assortiments de scies trépan HSS-CO 8% bimetal

Juegos de coronas perforadoras bimetalica HSS-CO 8% / HSS-CO 8% Lochsägen Sortimente

Kit per elettricisti - Electrician's kit



Cod.	Composizione Description
21013201K Ø 22÷64 6 pcs	Ø 22-29-35 44-51-64 5519B - 5546B 1
21013202K Ø 16÷51 (METRIC) 6 pcs	Ø 16-20-25 32-40-51 5519B - 5546B 1



Cod.	Composizione Description
21013209K Ø 22÷68 7 pcs	Ø 22-29-35 38-44-51 68 5519B - 5546B 1
21013207K Ø 16÷60 (Pg 9÷48) 13 pcs	Ø 16-19-20-21 22-25-29-32 38-48-51-54 60 5519B - 5546B 1

Kit per idraulici - Plumber's kit



Cod.	Composizione Description
21013204K Ø 19÷57 6 pcs	Ø 19-22-29 38-44-57 5519B - 5546B 1

Kit per installatori - Journeyman's kit



Cod.	Composizione Description
21013205K Ø 19÷64 9 pcs	Ø 19-22-29-35 38-44-51-57 64 5519B - 5546B 1 1



Cod.	Composizione Description
21013215K Ø 19÷76 11 pcs	Ø 19-22-25-29 35-38-44-51 57-64-76 5519B - 5546B 1
21013216K Ø 16÷76 12 pcs	Ø 16-19-22-25 29-32-35-38 44-51-64-76 5519B - 5546B 1
21013211K Ø 20÷64 11 pcs	Ø 20-22-25-30 32-35-40-44 51-60-64 5519B - 5546B 1
21013212K Ø 19÷83 11 pcs	Ø 19-22-25-30 35-40-51-60 64-76-83 5519B - 5546B 1

Kit industriale - Industrial kit



Cod.	Composizione Description
21013206K Ø 19÷114 15 pcs	Ø 19-22-29-35-38 44-51-57-64-76 83-92-95-105-114 5519B - 5546B 1

Espositori - Display



Cod.	Composizione Description
21013504K Ø 16÷102 49 pcs	Ø 16-19-20-22-25-30 32-35-38-40-48-51 57-60-70-83-102 5519B 14÷30 5546B 32÷152 21070202



Cod.	Composizione Description
21013503K Ø 16÷83 24 pcs	Ø 16-19-20-22-25-27 29-30-32-35-38-40-44 51-54-60-64-70-76-83 5519B 14÷30 5546B 32÷152

SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE AD ALBERO FISSO

One piece HSS bimetal hole saws with fixed arbor / Scies trépan bimetal HSS avec arbres de montage fixé

Coronas perforadoras bimetalicas HSS con mango incorporado / HSS-bimetall lochsägen mit festeingebaut Aufnahmeschäfte

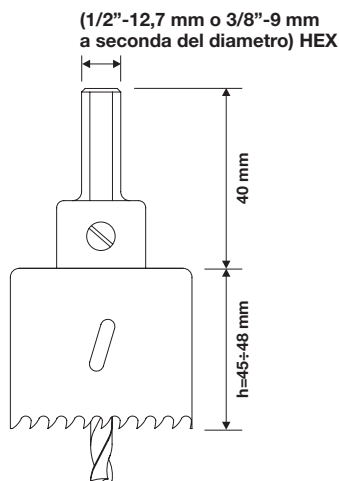
21061



Variabile - Variable Z 4-6



BIM. - HSS M3/1



HSS M3/1

Ø mm	Ø Pollici Inch	cod.
16	5/8	2106101600
19	3/4	2106101900
21	13/16	2106102100
22	7/8	2106102200
24	15/16	2106102400
25	1"	2106102500
27	1,1/16	2106102700
29	1,1/8	2106102900
30	1,3/16	2106103000
32	1,1/4	2106103200
33	1,5/16	2106103300
35	1,3/8	2106103500
38	1,1/2	2106103800
40	1,9/16	2106104000
41	1,5/8	2106104100
44	1,3/4	2106104400
48	1,7/8	2106104800
51	2"	2106105100
54	2,1/8	2106105400
57	2,1/4	2106105700
60	2,3/8	2106106000
64	2,1/2	2106106400
67	2,5/8	2106106700
70	2,3/4	2106107000
76	3"	2106107600
79	3,1/8	2106107900
83	3,1/4	2106108300
89	3,1/2	2106108900
92	3,5/8	2106109200
95	3,3/4	2106109500
102	4"	2106110200

Integrale
one-piece

Punta pilota
Pilot drill



cod.
Ø 6,35 x 80 21070201

Confezione / Packaging



Applicazioni / Applications



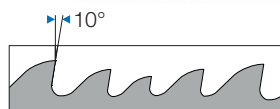
- Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito, max. profondità di foratura 5 mm. nel metallo e 30 mm nel legno.
- 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... Max. cutting depth: 13/64.
- Scies cloches bimetal-HSS à denture progressive pour l'emploi professionnel. Pour percer les métaux, fer, fonte, acier inox, bois, plastique. Profondeur de coupe: 5 mm.
- Coronas perforadoras bimetalicas HSS con diente variable y angulo positivo para taladrar acero, laton, bronce, aluminio, madera, plastico etc. Profundidad de corte: 5 mm.
- HSS Bi-Metall-Lochsägen mit vario-verzahnung für schnellen Bohrfortschritt in Stahl, Guss, Kupfer, Bronze, Aluminium, Kunststoffe, Gipskarton, Holz.

SEGHE A TAZZA BIMETALLICHE HSS-CO 8% A DENTATURA VARIABILE ORIGINALI "BLU-MOL"

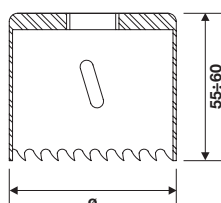
HSS-Co 8% bimetal hole saws / Scies trépan bimetal HSS-Co 8%

Coronas perforadoras bimetalicas HSS-Co 8% / HSS-Co 8% bimetal Lochsägen

21065



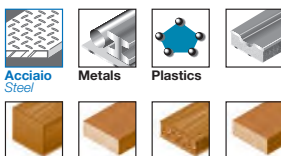
Z 4÷6 - BIM. AISI M42 - Co8%



Confezione / Packaging



Applicazioni / Applications



- 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, max. profondità di foratura 5 mm nei metalli.
- Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibre-glass etc... Max. cutting depth: 13/64
- Scies cloches bimetal-HSS-Co 8% à denture progressive pour l'emploi professionnel. Pour percer les métaux, fer, fonte, acier inox, bois, plastique. Profondité de coupe: 5 mm
- Coronas perforadoras bimetalicas HSS-Co 8% con diente variable y ángulo positivo para taladrar acero, latón, bronce, aluminio, madera, plástico etc. Profundidad de corte: 5 mm.
- HSS-Co 8% Bi-Metall-Lochsägen mit vario-verzahnung für schnellen Bohrfortschritt in Stahl, Guss, Kupfer, Bronze, Aluminium, Kunststoffe, Gipskarton, Holz.

Ø Nom. mm	Ø Pollici Inch	pcs 	cod.
14	9/16	1	2106501400
16	5/8	1	2106501600
17	11/16	1	2106501700
19	3/4	1	2106501900
20	—	1	2106502000
21	13/16	1	2106502100
22	7/8	1	2106502200
24	15/16	1	2106502400
25	1"	1	2106502500
27	1,1/16	1	2106502700
29	1,1/8	1	2106502900
30	1,3/16	1	2106503000
32	1,1/4	1	2106503200
33	1,5/16	1	2106503300
35	1,3/8	1	2106503500
37	1,7/16	1	2106503700
38	1,1/2	1	2106503800
40	1,9/16	1	2106504000
41	1,5/8	1	2106504100
43	1,11/16	1	2106504300
44	1,3/4	1	2106504400
45	—	1	2106504500
46	1,13/16	1	2106504600
48	1,7/8	1	2106504800
50	—	1	2106505000
51	2"	1	2106505100
52	2,1/16	1	2106505200
54	2,1/8	1	2106505400
55	—	1	2106505500
57	2,1/4	1	2106505700
59	2,5/16	1	2106505900
60	2,3/8	1	2106506000
64	2,1/2	1	2106506400
65	2,9/16	1	2106506500
67	2,5/8	1	2106506700
68	—	1	2106506800
70	2,3/4	1	2106507000
73	2,7/8	1	2106507300
75	—	1	2106507500
76	3"	1	2106507600
79	3,1/8	1	2106507900
83	3,1/4	1	2106508300
86	3,3/8	1	2106508600
89	3,1/2	1	2106508900
92	3,5/8	1	2106509200
95	3,3/4	1	2106509500
98	3,7/8	1	2106509800
100	—	1	2106510000
102	4"	1	2106510200
105	4,1/8	1	2106510500
108	4,1/4	1	2106510800
111	4,3/8	1	2106511100
114	4,1/2	1	2106511400
121	4,3/4	1	2106512100
127	5"	1	2106512700
140	5,1/2	1	2106514000
146	5,3/4	1	2106514600
152	6"	1	2106515200

fam. code

img.

DIN

21208
21209



212081100 *3-EDGE HSS DRILLS WELDON ATTACHMENT MM 11
212081200 *3-EDGE HSS DRILLS WELDON ATTACHMENT MM 12

-
-

HSS-G
HSS-G

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