

Сверла для зенковки

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
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Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Industrial

FRESE AD INCASSARE E SVASARE A 3 TAGLI

Deburring tools with 3 flutes / Fraise conique à ébavurer avec 3 coupes / Fresas de avellanar con 3 cortes / Kegelsenker mit 3 Schneiden

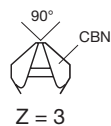
01185 01260



HSS



HSS+TiN



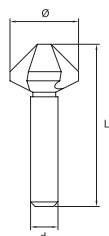
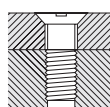
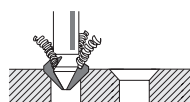
Applicazioni / Applications



Acciaio
Steel



Metals



DIN 335/C-90°

Ø mm	d	L	Per viti / For screws DIN 74 AF DIN 74 BF
4,3	4	40	
5	4	40	M 2,5
5,3	4	40	
5,8	5	45	
6	5	45	M 3
6,3	5	45	M 3
7	6	50	M 3,5
7,3	6	50	
8	6	50	M 4
8,3	6	50	M 4
9,4	6	50	
10	6	50	M 5
10,4	6	50	M 5
11,5	8	56	M 6
12,4	8	56	M 6
13,4	8	56	
15	10	60	M 8
16,5	10	60	M 8
19	10	63	M 10
20,5	10	63	M 10
23	10	67	M 12
25	10	67	M 12
26	12	67	M 14
28	12	71	M 14
30	12	71	M 16
31	12	71	M 16
40	15	80	

01185 HSS

cod.

01260 HSS+TiN

cod.

Confezione / Packaging



6 pcs Ø 6,3-8,3-10,4-12,4-16,5-20,5
01270107 - HSS



6 pcs Ø 6,3-8,3-10,4-12,4-16,5-20,5
01270109 - HSS+TiN



17 pcs Ø 4,3-5-6- 6,3-7-8-8,3-10-10,4
11,5-12,4-15-16,5-19-20,5-23-25
01270400 HSS

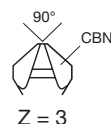
01261 01262



HSS-CO



HSS-CO+TiAIN



Applicazioni / Applications



Inox



Acciaio
Steel



Metals

DIN 335/C-90°

Ø mm	d	L	Per viti / For screws DIN 74 AF DIN 74 BF
6,3	5	45	M 3
8,3	6	50	M 4
10,4	6	50	M 5
12,4	8	56	M 6
15	10	60	M 8
16,5	10	60	M 8
20,5	10	63	M 10
25	10	67	M 12
28	12	71	M 16
30	12	71	
31	12	71	
40	15	80	

01261 HSS-CO

cod.

01262 HSS-CO+TiAIN

cod.



6 pcs
Ø 6,3-8,3-10,4-12,4-16,5-20,5
01270110 - HSS-CO



6 pcs
Ø 6,3-8,3-10,4-12,4-16,5-20,5
01270111 - HSS-CO+TiAIN

FRESE AD INCASSARE E SVASARE A 3 TAGLI IN METALLO DURO

Carbide deburring tools with 3 flutes / Fraise conique à ébavurer carbure avec 3 coupes

Fresas de avellanar metal duro con 3 cortes / Kegelsenker VHM mit 3 Schneiden

01263 01264



Metallo Duro / Carbide



**Metallo Duro / Carbide
DIN 335/C-90°**

Ø h10	d h7	L	Per viti For screws DIN 74 BF
6,3	6	50	M 3
8,3	6	50	M 4
10,4	6	50	M 5
12,4	8	50	M 6
16,5	10	60	M 8
20,5	10	63	M 10
25	10	67	M 12

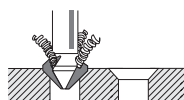
**Art. 01263
MD**

cod.
012630630
012630830
012631040
012631240
012631650
012632050
012632500

**Art. 01264
MD+TiAlN**

cod.
012640630
012640830
012641040
012641240
012641650
012642050
012642500

Applicazioni / Applications

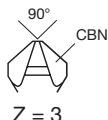


SVASATORI A 90° CON ATTACCO ESAGONALE 1/4"

90° countersink with 1/4" hexagon shank / Fraise conique a 90° avec 6 pans de 1/4"

Avellanador a 90° con mango esagonal 1/4" / Kagelsenker-bits 90°, mit 1/4" sechskant-Aufnahme

19003

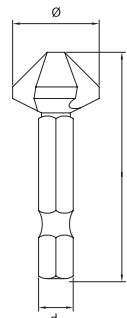


Applicazioni / Applications

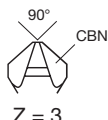


HSS DIN 335/C-90°

Ø	L	d Hex	Per viti For screws DIN 74 BF	cod.
6,3	40	1/4	M 3	190030630
8,3	45	1/4	M 4	190030830
10,4	47	1/4	M 5	190031040
12,4	49	1/4	M 6	190031240
16,5	52	1/4	M 8	190031650
20,5	55	1/4	M 10	190032050



19001



Applicazioni / Applications



HSS DIN 335/C-90°

Ø	L	d Hex	Per viti For screws DIN 74 BF	cod.
6,3	31	1/4	M 3	19001063
8,3	31	1/4	M 4	19001083
10,4	34	1/4	M 5	19001104
12,4	35	1/4	M 6	19001124
16,5	40	1/4	M 8	19001165
20,5	41	1/4	M 10	19001205



6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5
19020214 - HSS-G

Art. 19002 Self
Disponibile su richiesta / On demand



**Magnetico
Magnetic**

ØxL	cod.
33x120	19001000

DIN 8374	DIN 8375	64
01101	01102	

FRESE AD INCASSARE E SVASARE IN HSS

HSS deburring tools / Fraise conique à ébavurer en HSS

Fresas de avellanar HSS / Kegelsenker HSS

01193



HSS



Applicazioni / Applications



HSS DIN 335/C-90°

Serie lunga - Long serie

Ø mm	d	L	cod.
6,3	5	104	011930630
8,3	6	105	011930830
10,4	6	107	011931040
12,4	8	108	011931240
15	10	109	011931500
16,5	10	111	011931650
20,5	10	114	011932050
25	10	118	011932500

Lunghezza del codolo 100 mm
Shank lenght 100 mm



6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

01270207 - HSS

01196



HSS



Applicazioni / Applications



HSS DIN 335/D 90°

Ø mm	MK	L	Per viti / For screws DIN 74 AF DIN 74 BF	cod.
15	1	85	M 8	011961500
16,5	1	85	M 8	011961650
19	2	100	M 10	011961900
20,5	2	100	M 10	011962050
23	2	106	M 12	011962300
25	2	106	M 12	011962500
26	2	106	M 14	011962600
28	2	112	M 14	011962800
30	2	112	M 16	011963000
31	2	112	M 16	011963100
34	2	118	M 18 M 18	011963400
37	2	118	M 20 M 20	011963700
40	3	140		011964000
50	3	150		011965000

01192



HSS



Applicazioni / Applications



HSS DIN 335/C 90°

Ø mm	d	L	cod.
6	5	45	011920600
8	6	50	011920800
10	6	50	011921000
12	8	56	011921200
16	10	60	011921600
20	10	63	011922000
25	10	67	011922500
30	12	71	011923000

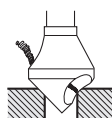
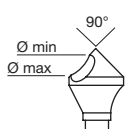
HSS-90°

Gr.	Ø min-max	d	L	cod.
1	2 ÷ 5	6	45	0118801
2	5 ÷ 10	8	48	0118802
3	10 ÷ 15	10	65	0118803
4	15 ÷ 20	12	85	0118804
5	20 ÷ 25	15	102	0118805
6	25 ÷ 30	15	115	0118806
7	30 ÷ 35	15	127	0118807
8	35 ÷ 40	15	136	0118808
9	40 ÷ 50	20	166	0118809

01188



HSS



Applicazioni / Applications



Abs

4 pcs
2-5 5-10 10-15 15-20

01270108 HSS
€ 152,349

Speciale per alluminio, metalli leggeri e plastica. Lavora senza vibrazioni, ottima finitura.

Pour aluminium, métaux légers et plastiques. Pour ébavurage et petits chanfreins. Meilleur état de surface. Travaille sans vibrations.

For aluminium, metals and plastics. For deburring and small chamfers. Best surface finish. Works without vibrations.

FRESE AD INCASSARE E SVASARE IN HSS

HSS deburring tools / Fraise conique à ébavurer en HSS

Fresas de avellanar HSS / Kegelsenker HSS

01197



HSS



Applicazioni / Applications



Acciaio
Steel



Metals

HSS - 75°

Ø mm	d	L	cod.
6,3	5	45	011970630
8,3	6	50	011970830
10,4	6	50	011971040
12,4	8	56	011971240
13,4	8	56	011971340
16,5	10	63	011971650
20,5	10	67	011972050
25	10	71	011972500

01186



HSS



Applicazioni / Applications



Acciaio
Steel



Metals

HSS DIN 334/C 60°

Ø mm	d	L	cod.
6,3	5	45	011860630
8	6	50	011860800
10	6	53	011861000
12,5	8	56	011861250
16	10	63	011861600
20	10	67	011862000
25	10	71	011862500
31,5	12	76	011863150

SBAVATORI A MANO

Hand deburres / Fraises à ébavurer / Fresas de avellanar / Handentgrater

01187



HSS



Magnetico
Magnetic

HSS DIN 335/C-90°

Ø	L	cod.
6,3	121	011870630
8,3	122	011870830
10,4	124	011871040
12,4	126	011871240
16,5	130	011871650
20,5	130	011872050



Manico
Handle

ØxL

cod.

33x120 19001000

01190



Z = 6

Art. 01191 Self
Disponibile su richiesta
On demand

HSS - 40°

Gr.	Ø min-max	L	cod.
1	10 ÷ 34	155	0119001

Speciale per sbavare condutture elettriche, tubi in rame o tubi in generale e grossi fori.
Quick and effective deburring of electrical conduit, copper pipe or any tubes or large holes.

SVASATORI CON PERNO GUIDA PER SEDE VITI A TESTA CILINDRICA

HSS deburring tools / Fraise conique à ébavurer en HSS

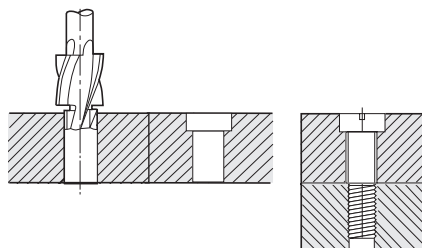
Fresas de avellanar HSS / Kegelsenker HSS

Per fori passanti - For through holes - Pour trous débouchants - Para orificios pasantes - Für Durchgangslöcher

01273
01274 01277



HSS DIN 373



Confezione / Packaging



Art. 01273 Grado fine - Fine grade - Degré fin - Grado fino - Fein Grad

vite thread	Ø	d ₁	L	d	cod.
M 3	6	3,2	71	5	0127303
4	8	4,3	71	5	0127304
5	10	5,3	80	8	0127305
6	11	6,4	80	8	0127306
8	15	8,4	100	12,5	0127308
10	18	10,5	100	12,5	0127310
12	20	13,0	100	12,5	0127312



6 pcs M 3÷10
01275100

Grado medio

Medium grade - Degré Moyen
Grado Medio - Mittelgrad

Art. 01274 HSS

Art. 01277 HSS+TiAIN

vite thread	Ø	d ₁	L	d	cod.	cod.
M 3	6	3,4	71	5	0127403	0127703
4	8	4,5	71	5	0127404	0127704
5	10	5,5	80	8	0127405	0127705
6	11	6,6	80	8	0127406	0127706
8	15	9,0	100	12,5	0127408	0127708
10	18	11,0	100	12,5	0127410	0127710
12	20	14,0	100	12,5	0127412	0127712



6 pcs M 3÷10
01275101 HSS

01275120 HSS+TiAIN

Grado fine per viteria/bulloneria di precisione.

Grado medio per meccanica standard.

Fine grade to fit precision screwing.

Medium grade to fit standard coupling.

Per prefiori di filettature - For thread core holes - Pour trous de taraudage - Para orificios de roscado - Für Gewindelöcher

01272



HSS DIN 373

Applicazioni / Applications



Acciaio
Steel



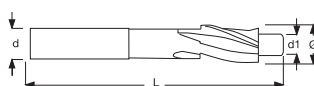
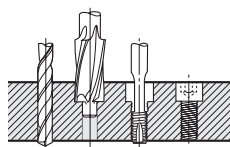
Metals



Alu

Art. 01272

vite thread	Ø	d ₁	L	d	cod.
M 3	6	2,5	71	5	0127203
4	8	3,3	71	5	0127204
5	10	4,2	80	8	0127205
6	11	5,0	80	8	0127206
8	15	6,8	100	12,5	0127208
10	18	8,5	100	12,5	0127210
12	20	10,2	100	12,5	0127212



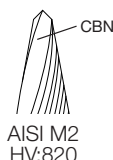
6 pcs M 3÷10
01275105



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

Conical drill bits with spiral flute and multiple clearance for metal sheets and tubes / Forets coniques et étages avec affûtage à multiples facettes pour travailler la tôle et les tubes / Brocas conicos y escalonados con afilatura múltiple para trabajar las planchas de metal y los tubos
Blechschalbohrer mit Spiralnute und Vielfaches Hinterarbeitung

01182



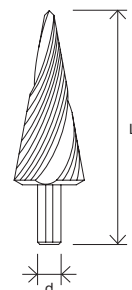
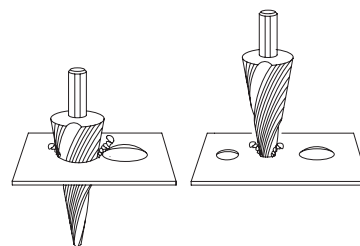
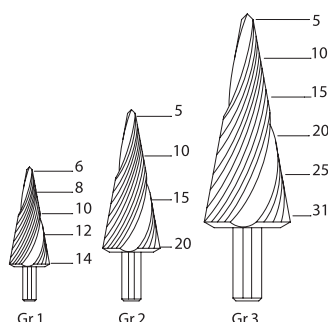
Gambo antidrucciolo
Spoglia multipla
High grip shank
Multiple clearance

Confezione / Packaging



HSS-G Interamente rettificata - Fully ground

Gr.	Ø min-max	d	l	L	cod.
1	3 ÷ 14	6	35	60	0118201
2	6 ÷ 20	8	45	70	0118202
3	5 ÷ 31	10	80	105	0118203



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

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



01182100 HSS-G

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

Applicazioni / Applications



R ≤ 800 N/mm²



- Per forare lamiere in acciaio, tubi, profilati in acciaio e leghe leggere, plexiglass, plastica sino a 5 mm di spessore
- For hole-making into metal sheets, pipes, structurals, light alloys sheets, plastics, plexiglass up to 5 mm thickness
- Pour le perçage des trous dans tous matériaux de faible épaisseur (épaisseur max. 5 mm)
- Broca-avellanador para cortar tubo y chapa de hierro y acero, aleaciones ligeras, plexiglass (5 mm de profundidad)
- Zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher

Pasta lubrificante per il taglio

Cutting paste / Lubrifiant de coupe
Pasta de corte / Bohrpaste



4100401

Olio da taglio minerale intero 0,5 lt

Cutting oil 0,5 lt



28020004

Olio da taglio emulsionabile in tanica 5 Kg (5lt)

Cutting oil tank 5 lt



28020005

Professional

UTENSILI CONICI INTEGRALI IN HSS-G PER FORARE ED ALLARGARE LAMIERE E TUBI

Conical drill bits for metal sheets and tubes / Forets coniques et étages pour la tôle

Brocas conicas para planchas / Blechschildbohrer

01180



AISI M2
HV:820

Gambo antistrucchiolo
High grip shank

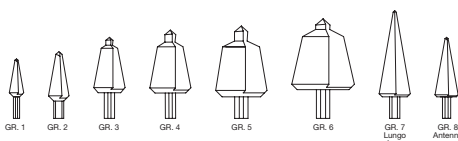
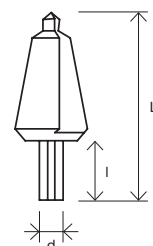
Confezione / Packaging



Art. 01181 Self
Disponibile su richiesta
On demand

HSS-G

Gr.	Ø min-max	d mm	l mm	L mm	cod.
1	3 ÷ 14	6	21	58	0118001
2	6 ÷ 20	8	21	70	0118002
3	16 ÷ 30,5	10	25	79	0118003
4	26 ÷ 40	10	25	86	0118004
5	36 ÷ 50	13	25	90	0118005
6	40 ÷ 61	13	25	97	0118006
7	3 ÷ 31	10	21	109	0118007
8	3 ÷ 22,5	8	21	85	0118008



01195101 HSS-G

Composizione
Description

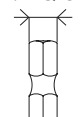
Gr.1 3÷14 mm
Gr.2 6÷20 mm
Gr.3 16÷30,5 mm

01215

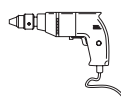
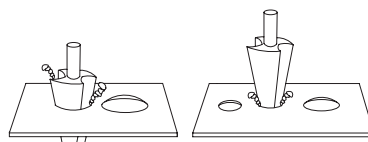


AISI M2
HV:820

1/4 Q.C.



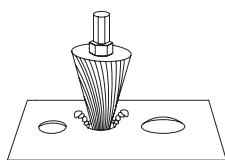
Gr.	Ø min-max	d mm	l mm	L mm	cod.
2	8 ÷ 20	1/4	20	68	0121502



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

Conical drill bits for metal sheets / Forets coniques pour la tôle / Brocas conicas para planchas / Blechschildbohrer

01176



Art. 01177 Self
Disponibile su richiesta
On demand

HSS

Ø x l	d	cod.
25 x 40	8	0117601
32 x 50	10	0117603
45 x 60	10	0117604

CV

Ø x l	d	cod.
25 x 40	8	0117602

La fresa allargafori va usata con velocità massima di 420 giri/min per allargare fori in lamiera di materiali dolci con spessore inferiore a 0,5 mm.
The conical drill bit should work at max 420 rpm to enlarge holes inside mild steel sheet 0,5 mm thick.

Applicazioni
Applications



R ≤ 800 N/mm²



Metals



Acciaio
Steel



Alu



Plastics



- Per forare lamiere in acciaio, tubi, profilati in acciaio e leghe leggere, plexiglass, plastica sino a 5 mm di spessore
- For hole-making into metal sheets, pipes, structurals, light alloys sheets, plastics, plexiglass up to 5 mm thickness
- Pour le perçage des trous dans tous matériaux de faible épaisseur (épaisseur max. 5 mm)
- Broca-avellanador para cortar tubo y chapa de hierro y acero, aleaciones ligeras, plexiglass (5 mm de profundidad)
- Zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher

UTENSILI CONICI RIVESTITI AL TiN E AL TiAlN PER FORARE ED ALLARGARE LAMIERE E TUBI

TiN and TiAlN coated conical drill bits / Forets coniques et étages revêtus au TiN et TiAlN

Brocas conicas con recubrimiento de TiN y TiAlN para planchas / Blechsälbohrer TiN und TiAlN beschichtet

01200



CBN
HSS-G+TiN
HV 0,05 = 2300
Gambo antisdrucciolo
High grip shank

Confezione / Packaging



HSS-G + TiN

Gr.	Ø min-max	d mm	l mm	L mm	cod.
1	3 ÷ 14	6	21	58	0120001
2	6 ÷ 20	8	21	70	0120002
3	16 ÷ 30,5	10	25	79	0120003
4	26 ÷ 40	10	25	86	0120004
5	36 ÷ 50	13	25	90	0120005
6	40 ÷ 61	13	25	97	0120006
7	3 ÷ 31	10	21	109	0120007
8	3 ÷ 22,5	8	21	85	0120008



01195110
HSS-G + TiN

Composizione / Description

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

USO INTENSIVO
INTENSIVE USE
Rs1000 N/mm²



ACCIAIO LEGATO
ALLOY STEEL



01206



CBN
HSS-G+TiAlN
HV 0,05 = 3300
Gambo antisdrucciolo
High grip shank

Confezione / Packaging



HSS-G + TiAlN

Gr.	Ø min-max	d mm	l mm	L mm	cod.
1	3 ÷ 14	6	21	58	0120601
2	6 ÷ 20	8	21	70	0120602
3	16 ÷ 30,5	10	25	79	0120603
4	26 ÷ 40	10	25	86	0120604
5	36 ÷ 50	13	25	90	0120605
6	40 ÷ 61	13	25	97	0120606
7	3 ÷ 31	10	21	109	0120607
8	3 ÷ 22,5	8	21	85	0120608



01195111
HSS-G + TiAlN

Composizione / Description

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

USO INTENSIVO
INTENSIVE USE
Rs1200 N/mm²



ACCIAIO INOX
ACCIAIO ALTO LEGATO
STAINLESS STEEL
HIGH ALLOY STEEL

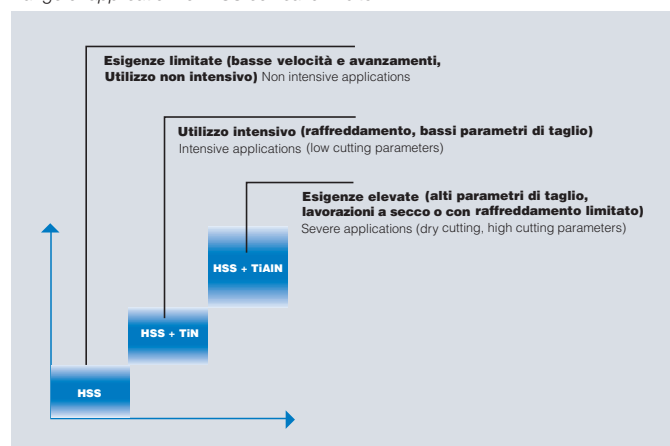


Applicazioni
Applications



- Per forare lamiere in acciaio, tubi, profilati in acciaio e leghe leggere, plexiglass, plastica sino a 5 mm di spessore
- For hole-making into metal sheets, pipes, structurals, light alloys sheets, plastics, plexi-glass up to 5 mm thickness
- Pour le perçage des trous dans tous matériaux de faible épaisseur (épaisseur max. 5 mm)
- Broca-avellanador para cortar tubo y chapa de hierro y acero, aleaciones ligeras, plexiglass (5 mm de profundidad)
- Zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher

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

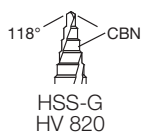


UTENSILI CONICI A GRADINO CON TAGLIENTI ELICOIDALI AD ALTO RENDIMENTO

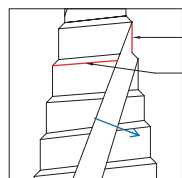
Spiral step drill bits / Forets étages hélicoïdaux

Brocas escalonadas helicoidale / Stufenbohrer mit Spiralnute

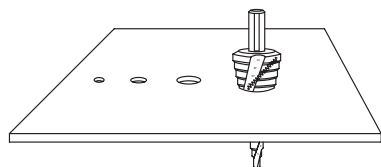
01240



HSS-G
HV 820
Gambo antisdrucciolo
High grip shank



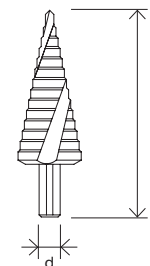
Spoglia assiale
Axial relief
Spoglia radiale
Radial relief
Componente di taglio
Cutting strength
Forza applicata / Strength
Componente estrazione truciolo
Chip removal strength



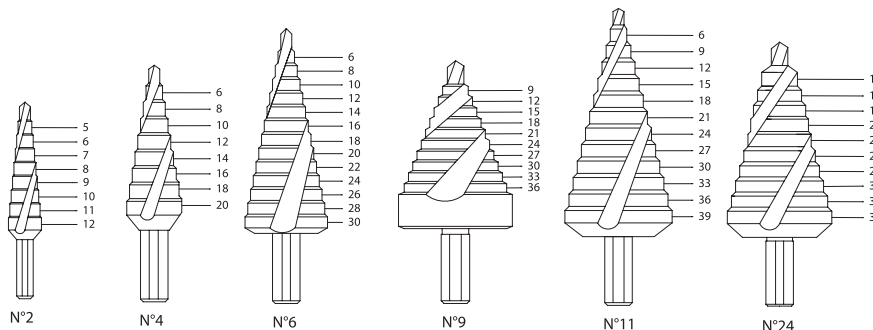
Esercitare solo una lieve pressione durante il taglio. L'elicoide è autoalimentante grazie alla componente assiale della forza di taglio.
Please use a very soft press while drilling. The tool proceeds by itself, due to the axial cutting strength.

HSS-G

Gr.	Ø min-max	Progressione Step (mm)	N° Gradini N° Steps	d mm	L mm	cod.
2	4 ÷ 12	1	9	6	70	0124002
4	4 ÷ 20	2	9	10	85	0124004
6	4 ÷ 30	2	13	10	100	0124006
9	6 ÷ 36	3	10	10	80	0124009
11	4 ÷ 39	3	13	10	107	0124011
24	6 ÷ 38	-	11	10	96	0124024



Esercitare solo una lieve pressione durante il taglio. L'elicoide è autoalimentante grazie alla componente assiale della forza di taglio.
Please use a very soft press while drilling. The tool proceeds by itself, due to the axial cutting strength.



R ≤ 800 N/mm²



HSS-G

01259107
HSS-G

Composizione / Description

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

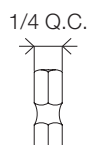
UTENSILI A GRADINO CON TAGLIENTI ELICOIDALI AD ALTO RENDIMENTO CON ATTACCO 1/4" QC

Spiral step drill bits / Forets étages hélicoïdaux / Brocas escalonadas helicoidale / Stufenbohrer mit Spiralnute

01241

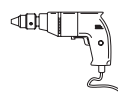


HSS-G
HV 820
Gambo antisdrucciolo
High grip shank



HSS

Gr.	Ø min-max	Progressione Step (mm)	N° Gradini N° Steps	d mm	ℓ mm	L mm	cod.
4	4 ÷ 20	2	9	1/4	25	76	0124104
6	4 ÷ 30	2	13	1/4	25	100	0124106



UTENSILI CONICI A GRADINO RIVESTITI AL TiN E AL TiAlN CON TAGLIENTI ELICOIDALI AD ALTO RENDIMENTO

TiN and TiAlN spiral step drill bits / Forets étages hélicoïdaux au TiN et TiAlN

Brocas escalonadas helicoidales con recubrimiento de TiN y TiAlN / Stufenbohrer mit Spiralnute TiN und TiAlN

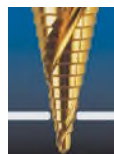
01244



CBN
HSS-G+TiN
HV 0,05=2300
Gambo antisdrucciolo
High grip shank



$R \leq 1000 \text{ N/mm}^2$



Metals

HSS-G + TiN

Gr.	Ø min-max	Progressione Step (mm)	N° Gradini N° Steps	d mm	L mm	cod.	
2	4 ÷ 12	1	9	6	70	0124402	
4	4 ÷ 20	2	9	10	85	0124404	
6	4 ÷ 30	2	13	10	100	0124406	
9	6 ÷ 36	3	10	10	80	0124409	
11	4 ÷ 39	3	13	10	107	0124411	
24	6 ÷ 38	-	11	10	96	0124424	



HSS-G + TiN

01259108
HSS-G + TiN

Composizione / Description

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

01248



CBN
HSS-G+TiAlN
HV 0,05=3300
Gambo antisdrucciolo
High grip shank



$R \leq 1400 \text{ N/mm}^2$



Inox

Acciaio

Metals

HSS-G + TiAlN

Gr.	Ø min-max	Progressione Step (mm)	N° Gradini N° Steps	d mm	L mm	cod.	
2	4 ÷ 12	1	9	6	70	0124802	
4	4 ÷ 20	2	9	10	85	0124804	
6	4 ÷ 30	2	13	10	100	0124806	
9	6 ÷ 36	3	10	10	80	0124809	
11	4 ÷ 39	3	13	10	107	0124811	
24	6 ÷ 38	-	11	10	96	0124824	



HSS-G + TiAlN

01259109
HSS-G + TiAlN

Composizione / Description

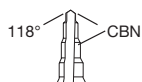
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

UTENSILI CONICI INTEGRALI A GRADINO IN HSS-G PER LA FORATURA ED ALLARGATURA DELLA LAMIERA

HSS step drill bits / Forets étages HSS-G

Brocas escalonadas HSS-G / HSS-G Stufenbohrer

01183



AISI M2
HV:820

Gambo antidrucciolo
High grip shank

Art. 01184 Self
Disponibile su richiesta
On demand

HSS-G

Metric - per costruzione - for construction

Gr.	Ø min-max	Progressione Step (mm)	N° Gradini N° Steps	d mm	L mm	cod.
1	4 ÷ 12	2	5	6	56	0118301
2	4 ÷ 12	1	9	6	70	0118302
3	12 ÷ 20	1	9	10	85	0118303
4	4 ÷ 20	2	9	10	85	0118304
5	20 ÷ 30	1	11	10	97	0118305
6	4 ÷ 30	2	13	10	97	0118306
7	30 ÷ 40	1	11	13	97	0118307
8	40 ÷ 50	1	11	13	100	0118308
9	6 ÷ 36	3	10	10	80	0118309
10	25 ÷ 58	3	12	13	90	0118310
11	4 ÷ 39	3	13	10	107	0118311
24	6 ÷ 38	-	11	10	96	0118324
Pg						
21	6,3 ÷ 26,75	-	7	10	91	0118321
22	6 ÷ 30,5	-	7	10	80	0118322
23	6 ÷ 37	-	7	10	85	0118323

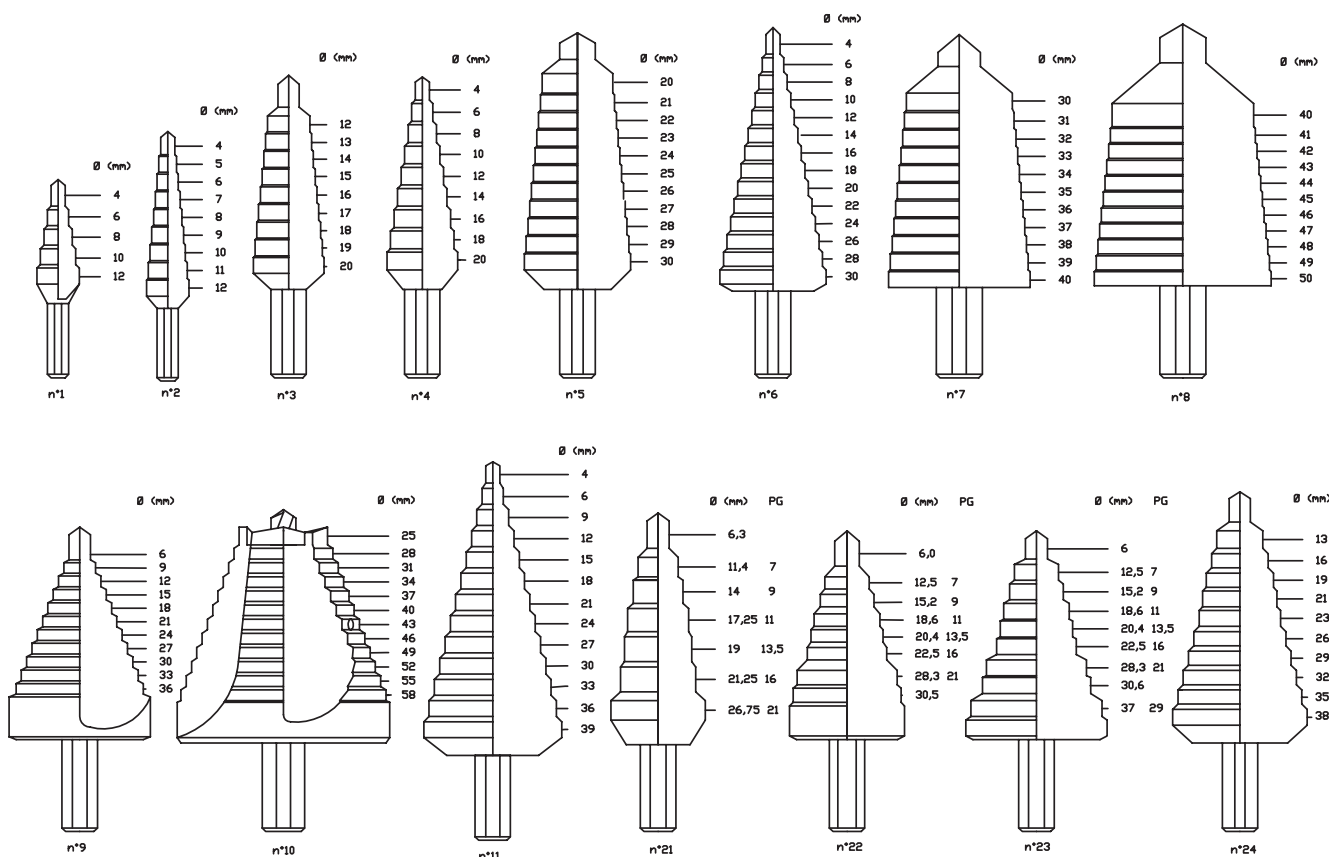
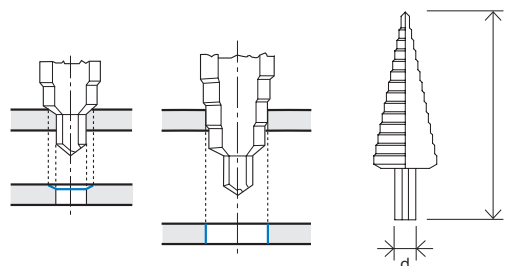


Confezione / Packaging



*Ricambio - Spare part

L	ØxL	cod.
	10x48	0118300



ASSORTIMENTI UTENSILI CONICI HSS-G

HSS-G conical drill bits sets / Assortiments de forets coniques et étages HSS-G
Surtidos de brocas conicas HSS-G para planchas / HSS-G Blechschälbohrer Sortimente

01259102

01259105

01259110

Abs



01259102
HSS-G

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

01259105
HSS-G

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

01259110
HSS-G

Composizione / Description
Gr.6 4÷30 mm



HSS 25÷40 mm



HSS 6x90 mm



UTENSILI CONICI A GRADINO IN HSS-G CON ATTACCO 1/4" Q.C. PER FORARE E ALLARGARE LAMIERE E TUBI

HSS-G step drill bits, 1/4" shank / Forets étages HSS-G avec queue 1/4"
Brocas escalonadas HSS-G con mango 1/4" / HSS-G Stufenbohrer

01239

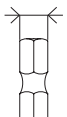
HSS-G

Gr.	Ø min-max	Progressione Step (mm)	N° Gradini N° Steps	d	L mm	cod.
2	4 ÷ 12	1	9	1/4	68	0123902
4	4 ÷ 20	2	9	1/4	78	0123904
6	4 ÷ 30	2	13	1/4	101	0123906



CBN
AISI M2
HV:820

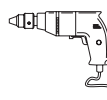
1/4 Q.C.



Abs

01259118
HSS-G

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



Confezione / Packaging



Applicazioni
Applications



R ≤ 800 N/mm²



Acciaio
Steel



Metals



Alu



Plastics



- Per fori cilindrici e precisi in lamiera di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore. Taglio veloce, alto rendimento.
- For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness. Fast cutting, high performance.
- Perçage précise et haute rendement dans tous matériaux de faible épaisseur (max 5 mm).
- Grande rendimiento y precision para cortar tubo y chapa de acero, aleaciones ligeras, plexiglass (5 mm profundidad).
- Große Präzision und Leistung zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher

UTENSILI CONICI A GRADINO RIVESTITI AL TiN E TiAlN

TiN and TiAlN coated step drill bits / Forets étages revêtus au TiN et TiAlN

Brocas escalonadas con recubrimiento de TiN y TiAlN / Stufenbohrer TiN-TiAlN beschichtet

01230



CBN
HSS-G + TiN
HV 0,05 = 2300
Gambo antisdrucciolo
High grip shank

Confezione / Packaging



Gr. 2-4-6

01259103
HSS-G + TiN

HSS-G + TiN

Metric - per costruzione - for construction

Gr.	Ø min-max	Progressione Step (mm)	N° Gradini N° Steps	d mm	L mm	cod.
1	4 ÷ 12	2	5	6	56	0123001
2	4 ÷ 12	1	9	6	70	0123002
3	12 ÷ 20	1	9	10	85	0123003
4	4 ÷ 20	2	9	10	85	0123004
5	20 ÷ 30	1	11	10	97	0123005
6	4 ÷ 30	2	13	10	97	0123006
7	30 ÷ 40	1	11	13	97	0123007
8	40 ÷ 50	1	11	13	100	0123008
9	6 ÷ 36	3	10	10	80	0123009
10	25 ÷ 58	3	12	13	90	0123010
11	4 ÷ 39	3	13	10	107	0123011
24	6 ÷ 38	-	11	10	96	0123024
Pg						
21	6,3 ÷ 26,75	-	7	10	91	0123021
22	6 ÷ 30,5	-	7	10	80	0123022
23	6 ÷ 37	-	7	10	85	0123023



Applicazioni
Applications



USO INTENSIVO
INTENSIVE USE
R ≤ 1000 N/mm²



- Per fori cilindrici e precisi in lamiere di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.
- For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.
- Perçage précise et haute rendement dans tous matériaux de faible épaisseur (max 5 mm).
- Grande rendimiento y precision para cortar tubo y chapa de acero, aleaciones ligeras, plexiglass (5 mm profundidad).
- Große Präzision und Leistung zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher

01236



CBN
HSS-G + TiAlN
HV 0,05 = 3300
Gambo antisdrucciolo
High grip shank



Gr. 2-4-6

01259104
HSS-G + TiAlN

HSS-G + TiAlN

Metric - per costruzione - for construction

Gr.	Ø min-max	Progressione Step (mm)	N° Gradini N° Steps	d mm	L mm	cod.
1	4 ÷ 12	2	5	6	56	0123601
2	4 ÷ 12	1	9	6	70	0123602
3	12 ÷ 20	1	9	10	85	0123603
4	4 ÷ 20	2	9	10	85	0123604
5	20 ÷ 30	1	11	10	97	0123605
6	4 ÷ 30	2	13	10	97	0123606
7	30 ÷ 40	1	11	13	97	0123607
8	40 ÷ 50	1	11	13	100	0123608
9	6 ÷ 36	3	10	10	80	0123609
10	25 ÷ 58	3	12	13	90	0123610
11	4 ÷ 39	3	13	10	107	0123611
24	6 ÷ 38	-	11	10	96	0123624
Pg						
21	6,3 ÷ 26,75	-	7	10	91	0123621
22	6 ÷ 30,5	-	7	10	80	0123622
23	6 ÷ 37	-	7	10	85	0123623



Applicazioni
Applications



USO INTENSIVO
INTENSIVE USE
R ≤ 1200 N/mm²

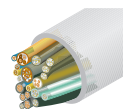


- Per fori cilindrici e precisi in lamiere di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.
- For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.
- Perçage précise et haute rendement dans tous matériaux de faible épaisseur (max 5 mm).
- Grande rendimiento y precision para cortar tubo y chapa de acero, aleaciones ligeras, plexiglass (5 mm profundidad).
- Große Präzision und Leistung zum Bohren größerer Löcher in dünnwandige Materialien oder zum Aufbohren bereits vorhandener Löcher

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

Universal step drill bits for cables connections / Forets étages universelles pour tubes avec armature en acier

Brocas escalonadas universales para tubos de conducción eléctrica / Universal-Stufenbohrer für Kabelverschraubungen



0125405

0125406

0125407

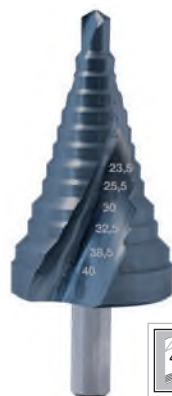
METRIC - DIN-EN 60423



HSS-G



HSS-G + TiN



HSS-G + TiAlN



Metric Universal

0125405
HSS-G

Composizione / Description
Ø 7÷40,5 mm
M 12x1,5÷40x1,5

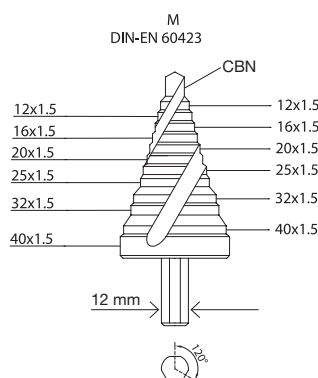
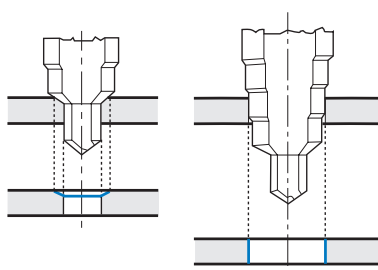
0125406
HSS-G + TiN

Composizione / Description
Ø 7÷40,5 mm
M 12x1,5÷40x1,5

0125407
HSS-G + TiAlN

Composizione / Description
Ø 7÷40,5 mm
M 12x1,5÷40x1,5

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



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

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

UNIVERSAL COMBINED: pour les trous de noyau (lorsque le filetage suivant est fourni) et les trous de passage (lors de l'insertion d'une connexion filetée avec un écrou relatif).

UNIVERSAL COMBINADO: para orificios centrales (cuando se proporciona la siguiente rosca) y orificios pasantes (cuando se inserta una conexión roscada con una tuerca relativa).

0125404

0125403

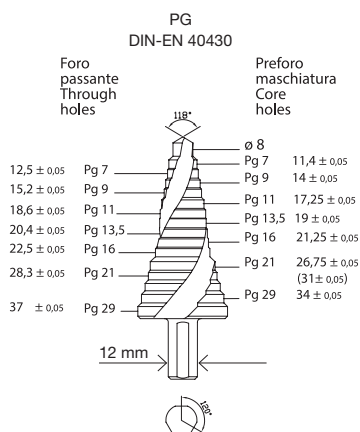
PG - DIN-EN 40430



HSS-G + TiN



HSS-G



PG Drill Universal

0125404
HSS-G + TiN

Composizione / Description
Ø 6÷30,5 mm
Pg 7÷29

0125403
HSS-G

Composizione / Description
Ø 8÷37 mm
Pg 7÷29

Combinato UNIVERSALE: per fori nocciolo e fori passanti DIN EN 40430 COMBINED UNIVERSAL: for core holes and through holes DIN EN 40430

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