

- I** FRESE A TAZZA E FRESE A CAROTARE IN HSS E IN HM
- F** TREPANS ET FRAISES A CAROTTER EN HSS ET A DENTS CARBURE
- GB** HSS AND CARBIDE TIPPED HOLE CUTTERS AND ANNULAR CUTTERS
- D** HSS UND HM HOHLFRÄSER UND KERNBOHRER
- SP** CORONAS Y FRESAS PARA TALADRO MAGNETICO



I FRESE A CORONA IN HSS PER MACCHINE A SUPPORTO MAGNETICO

F FRAISES A CAROTTER EN HSS POUR MACHINES A EMBASE MAGNETIQUE

GB HSS ANNULAR HOLE CUTTERS FOR MAGNETIC DRILLING SYSTEM

D HSS KERNBOHRER FUR KERNBOHREMASCHINEN

SP FRESAS HSS PARA MAQUINAS CON BASE ELECTROMAGNETICA



30 mm



50 mm



WELDON SHANK



QUICK-IN SHANK



UNIVERSAL SHANK

I Costruite in acciaio HSS (M2 e UNIVERSAL), le frese a carotare GP BORE sono adatte a lavori di foratura su acciai fino a spessori di 50 mm, a seconda del modello di macchina a supporto magnetico. La particolare geometria di taglio consente una perfetta e veloce evacuazione del truciolo e, quindi, una velocità di taglio notevole. Disponibili in versione 30 mm e 50 mm di profondità, dal diam. 12 mm a 65 mm con attacco WELDON 19 mm, QUICK-IN e UNIVERSAL. In pollici in versione 1" e 2" di profondità dal diam. 1/2" al 2"-1/2 con attacco WELDON 3/4".

F Les fraises à carotter GP BORE fabriquées en HSS - M2 sont conçue d'une manière que permet la réalisation de trous avec rapidité. Grâce à sa conception, les dents de la fraise ne subissent qu'un effort de coupe très réduit et la machine ne tourne qu'un minimum de sa puissance. Disponibles avec un profondeur de coupe de 30 mm et 50 mm du diam. 12 au 65 mm avec attachement WELDON 19 mm, QUICK-IN et UNIVERSAL. En pouce (profondeur 1" e 2") du diam. 1/2" au 2" - 1/2 avec attachement WELDON 3/4".

GB The Annular Hole Cutters GP BORE are made with HSS M2. Suitable for Magnetic Core Machine, the GP BORE Annular Cutter produce a solid slug of steel which is ejected when the cutter break through and the hole is complete. This reduce the problems experienced by the swarf and chips generated by conventional drilling. Suitable for all core machines with WELDON shank, QUICK-IN and UNIVERSAL, the GP BORE Annular Cutter are available from diam. 12 to 65 and in inch size from diam. 1/2" to 2" - 1/2" with WELDON shank diam. 3/4". Two different cut depth: 30 mm and 50 mm (metric sizes) and 1"-3/16" and 2" for the inch sizes.

D Die GP BORE (HSS M2 und M42) Kernbohrer mit Weldonshaft zerspannen mit bis dahin nicht für möglich gehaltenen Standzeiten Baustähle aller Art wie z.B. ST 37/ST 52. Wir zerspannen ebenfalls mit hervorragenden Standzeiten: gehärtete Stähle bis zu 65 HRC, Edeltähle aller Art, Chrom-Nichel Legierungen, Inconel, Hardox, Weldom, exotische Legierungen, Schienen u.s.w. Wir Können diese Schäfte haben: Von diam. 12 bis 65 (mm Maße) WELDON Schäfte 19 mm, QUICK-IN und UNIVERSAL Schäfte.

SP Fresas para Maquinas con base electromagnetica GP BORE fabricada en HSS M2/Sistema Weldon. Construidas de una sola pieza, recomendada para estructuras y caldereria. Disponibles de diam. 12 a 65 mm (metrico) con una profundidad de corte de 30 mm y 50 mm. Mango WELDON 19 mm, QUICK-IN y UNIVERSAL. Disponibles de diam. 1/2" a 2"-1/2" (pulgadas) con una profundidad de corte de 1" y 2". Mango WELDON 3/4".

- I** FRESE A CORONA IN HSS PER MACCHINE A SUPPORTO MAGNETICO GP BORE - 30 mm/50 mm - Misure in mm
- F** FRAISES A CAROTTER EN HSS POUR MACHINES A EMBASE MAGNETIQUE GP BORE - 30 mm/50 mm - mm
- GB** HSS ANNULAR HOLE CUTTERS FOR MAGNETIC DRILLING SYSTEM GP BORE - 30 mm/50 mm - Metric sizes
- D** HSS KERNBOHRER FUR KERNBOHREMASCHINEN GP BORE - 30 mm/50 mm - mm Maße
- SP** FRESAS HSS PARA MAQUINAS CON BASE ELECTROMAGNETICA - 30 mm/50 mm - En mm



30 mm							50 mm					
Ø	WELDON	€	QUICK- IN	€	UNIVERSAL	€	WELDON	€	QUICK- IN	€	UNIVERSAL	€
	Cod.		Cod.		Cod.		Cod.		Cod.		Cod.	
12	CDH12T	25,30	CD12TF	25,30	CDR12TN	25,30	CDH12C	€34,20	CD12CF	€34,20	CDR12CN	€34,20
13	CDH13T	25,30	CD13TF	25,30	CDR13TN	25,30	CDH13C	€34,20	CD13CF	€34,20	CDR13CN	€34,20
14	CDH14T	25,30	CD14TF	25,30	CDR14TN	25,30	CDH14C	€34,20	CD14CF	€34,20	CDR14CN	€34,20
15	CDH15T	26,90	CD15TF	26,90	CDR15TN	26,90	CDH15C	€36,30	CD15CF	€36,30	CDR15CN	€36,30
16	CDH16T	28,20	CD16TF	28,20	CDR16TN	28,20	CDH16C	€38,10	CD16CF	€38,10	CDR16CN	€38,10
17	CDH17T	29,30	CD17TF	29,30	CDR17TN	29,30	CDH17C	€39,60	CD17CF	€39,60	CDR17CN	€39,60
18	CDH18T	29,40	CD18TF	29,40	CDR18TN	29,40	CDH18C	€39,70	CD18CF	€39,70	CDR18CN	€39,70
19	CDH19T	30,90	CD19TF	30,90	CDR19TN	30,90	CDH19C	€41,80	CD19CF	€41,80	CDR19CN	€41,80
20	CDH20T	32,40	CD20TF	32,40	CDR20TN	32,40	CDH20C	€43,90	CD20CF	€43,90	CDR20CN	€43,90
21	CDH21T	34,60	CD21TF	34,60	CDR21TN	34,60	CDH21C	€46,80	CD21CF	€46,80	CDR21CN	€46,80
22	CDH22T	35,90	CD22TF	35,90	CDR22TN	35,90	CDH22C	€48,50	CD22CF	€48,50	CDR22CN	€48,50
23	CDH23T	37,30	CD23TF	37,30	CDR23TN	37,30	CDH23C	€50,40	CD23CF	€50,40	CDR23CN	€50,40
24	CDH24T	38,60	CD24TF	38,60	CDR24TN	38,60	CDH24C	€52,20	CD24CF	€52,20	CDR24CN	€52,20
25	CDH25T	39,90	CD25TF	39,90	CDR25TN	39,90	CDH25C	€53,90	CD25CF	€53,90	CDR25CN	€53,90
26	CDH26T	41,30	CD26TF	41,30	CDR26TN	41,30	CDH26C	€55,80	CD26CF	€55,80	CDR26CN	€55,80
27	CDH27T	41,90	CD27TF	41,90	CDR27TN	41,90	CDH27C	€56,60	CD27CF	€56,60	CDR27CN	€56,60
28	CDH28T	44,10	CD28TF	44,10	CDR28TN	44,10	CDH28C	€59,60	CD28CF	€59,60	CDR28CN	€59,60
29	CDH29T	45,50	CD29TF	45,50	CDR29TN	45,50	CDH29C	€61,50	CD29CF	€61,50	CDR29CN	€61,50
30	CDH30T	47,00	CD30TF	47,00	CDR30TN	47,00	CDH30C	€63,50	CD30CF	€63,50	CDR30CN	€63,50
31	CDH31T	53,10	CD31TF	53,10	CDR31TN	53,10	CDH31C	€71,70	CD31CF	€71,70	CDR31CN	€71,70
32	CDH32T	57,60	CD32TF	57,60	CDR32TN	57,60	CDH32C	€77,80	CD32CF	€77,80	CDR32CN	€77,80
33	CDH33T	59,50	CD33TF	59,50	CDR33TN	59,50	CDH33C	€80,40	CD33CF	€80,40	CDR33CN	€80,40
34	CDH34T	68,20	CD34TF	68,20	CDR34TN	68,20	CDH34C	84,50	CD34CF	84,50	CDR34CN	84,50
35	CDH35T	75,00	CD35TF	75,00	CDR35TN	75,00	CDH35C	88,40	CD35CF	88,40	CDR35CN	88,40
36	CDH36T	80,00	CD36TF	80,00	CDR36TN	80,00	CDH36C	93,10	CD36CF	93,10	CDR36CN	93,10
37	CDH37T	81,10	CD37TF	81,10	CDR37TN	81,10	CDH37C	96,20	CD37CF	96,20	CDR37CN	96,20
38	CDH38T	82,20	CD38TF	82,20	CDR38TN	82,20	CDH38C	98,80	CD38CF	98,80	CDR38CN	98,80
39	CDH39T	84,50	CD39TF	84,50	CDR39TN	84,50	CDH39C	99,70	CD39CF	99,70	CDR39CN	99,70
40	CDH40T	87,30	CD40TF	87,30	CDR40TN	87,30	CDH40C	103,50	CD40CF	103,50	CDR40CN	103,50
41	CDH41T	92,00	CD41TF	92,00	CDR41TN	92,00	CDH41C	108,00	CD41CF	108,00	CDR41CN	108,00
42	CDH42T	96,60	CD42TF	96,60	CDR42TN	96,60	CDH42C	112,20	CD42CF	112,20	CDR42CN	112,20
43	CDH43T	99,90	CD43TF	99,90	CDR43TN	99,90	CDH43C	117,80	CD43CF	117,80	CDR43CN	117,80
44	CDH44T	106,60	CD44TF	106,60	CDR44TN	106,60	CDH44C	122,40	CD44CF	122,40	CDR44CN	122,40
45	CDH45T	109,10	CD45TF	109,10	CDR45TN	109,10	CDH45C	126,80	CD45CF	126,80	CDR45CN	126,80
46	CDH46T	111,90	CD46TF	111,90	CDR46TN	111,90	CDH46C	133,50	CD46CF	133,50	CDR46CN	133,50
47	CDH47T	115,30	CD47TF	115,30	CDR47TN	115,30	CDH47C	140,30	CD47CF	140,30	CDR47CN	140,30
48	CDH48T	117,50	CD48TF	117,50	CDR48TN	117,50	CDH48C	144,70	CD48CF	144,70	CDR48CN	144,70
49	CDH49T	121,10	CD49TF	121,10	CDR49TN	121,10	CDH49C	148,70	CD49CF	148,70	CDR49CN	148,70
50	CDH50T	124,80	CD50TF	124,80	CDR50TN	124,80	CDH50C	151,50	CD50CF	151,50	CDR50CN	151,50
51	CDH51T	153,30	CD51TF	153,30	CDR51TN	153,30	CDH51C	175,70	CD51CF	175,70	CDR51CN	175,70
52	CDH52T	158,80	CD52TF	158,80	CDR52TN	158,80	CDH52C	191,50	CD52CF	191,50	CDR52CN	191,50
53	CDH53T	177,90	CD53TF	177,90	CDR53TN	177,90	CDH53C	199,50	CD53CF	199,50	CDR53CN	199,50
54	CDH54T	181,70	CD54TF	181,70	CDR54TN	181,70	CDH54C	207,20	CD54CF	207,20	CDR54CN	207,20
55	CDH55T	188,70	CD55TF	188,70	CDR55TN	188,70	CDH55C	214,60	CD55CF	214,60	CDR55CN	214,60
56	CDH56T	194,70	CD56TF	194,70	CDR56TN	194,70	CDH56C	221,10	CD56CF	221,10	CDR56CN	221,10
57	CDH57T	199,50	CD57TF	199,50	CDR57TN	199,50	CDH57C	227,60	CD57CF	227,60	CDR57CN	227,60
58	CDH58T	206,00	CD58TF	206,00	CDR58TN	206,00	CDH58C	234,70	CD58CF	234,70	CDR58CN	234,70
59	CDH59T	209,70	CD59TF	209,70	CDR59TN	209,70	CDH59C	242,60	CD59CF	242,60	CDR59CN	242,60
60	CDH60T	215,20	CD60TF	215,20	CDR60TN	215,20	CDH60C	249,10	CD60CF	249,10	CDR60CN	249,10
61	CDH61T	219,60	CD61TF	219,60	CDR61TN	219,60	CDH61C	257,00	CD61CF	257,00	CDR61CN	257,00
62	CDH62T	224,30	CD62TF	224,30	CDR62TN	224,30	CDH62C	264,30	CD62CF	264,30	CDR62CN	264,30
63	CDH63T	230,00	CD63TF	230,00	CDR63TN	230,00	CDH63C	269,70	CD63CF	269,70	CDR63CN	269,70
64	CDH64T	236,00	CD64TF	236,00	CDR64TN	236,00	CDH64C	276,70	CD64CF	276,70	CDR64CN	276,70
65	CDH65T	238,70	CD65TF	238,70	CDR65TN	238,70	CDH65C	281,90	CD65CF	281,90	CDR65CN	281,90

- I** FRESE A CORONA IN HSS PER MACCHINE A SUPPORTO MAGNETICO GP BORE - 1"-3/16"/2" - Misure in pollici
- F** FRAISES A CAROTTER EN HSS POUR MACHINES A EMBASE MAGNETIQUE GP BORE - 1"-3/16"/2" - en pouces
- GB** HSS ANNULAR HOLE CUTTERS FOR MAGNETIC DRILLING SYSTEM GP BORE - 1"-3/16"/2" - Inch sizes
- D** HSS KERNBOHRER FÜR KERNBOHREMASCHINEN GP BORE - 1"-3/16"/2" - ZollMaße
- SP** FRESAS HSS PARA MAQUINAS CON BASE ELECTROMAGNETICA - 1"-3/16"/2" - En pulgadas



1"		
Ø	WELDON 3/4" Cod.	€
1/2	ICD12HT	25,30
9/16	ICD14HT	25,30
5/8	ICD16HT	28,20
11/16	ICD17HT	29,30
3/4	ICD19HT	30,90
13/16	ICD20HT	32,40
7/8	ICD22HT	35,90
15/16	ICD24HT	38,60
1	ICD25HT	39,90
1-1/16	ICD27HT	41,90
1-1/8	ICD29HT	45,50
1-3/16	ICD30HT	47,00
1-1/4	ICD32HT	57,60
1-5/16	ICD33HT	59,50
1-3/8	ICD35HT	75,00
1-7/16	ICD37HT	81,10
1-1/2	ICD38HT	82,20
1-9/16	ICD40HT	87,30
1-5/8	ICD41HT	92,00
1-3/4	ICD44HT	106,60
1-7/8	ICD48HT	117,50
1-15/16	ICD49HT	121,10
2	ICD51HT	153,30
2-1/16	ICD52HT	158,80
2-1/8	ICD54HT	181,70
2-1/4	ICD57HT	199,50
2-3/8	ICD60HT	215,20
2-1/2	ICD64HT	236,00

2"		
Ø	WELDON 3/4" Cod.	€
1/2	ICD12HC	34,20
9/16	ICD14HC	34,20
5/8	ICD16HC	38,10
11/16	ICD17HC	39,60
3/4	ICD19HC	41,80
13/16	ICD20HC	43,90
7/8	ICD22HC	48,50
15/16	ICD24HC	52,20
1	ICD25HC	53,90
1-1/16	ICD27HC	56,60
1-1/8	ICD29HC	61,50
1-3/16	ICD30HC	63,50
1-1/4	ICD32HC	77,80
1-5/16	ICD33HC	80,40
1-3/8	ICD35HC	88,40
1-7/16	ICD37HC	96,20
1-1/2	ICD38HC	98,80
1-9/16	ICD40HC	103,50
1-5/8	ICD41HC	108,00
1-3/4	ICD44HC	122,40
1-7/8	ICD48HC	144,70
1-15/16	ICD49HC	148,70
2	ICD51HC	175,70
2-1/16	ICD52HC	191,50
2-1/8	ICD54HC	207,20
2-1/4	ICD57HC	227,60
2-3/8	ICD60HC	249,10
2-1/2	ICD64HC	276,70

MATERIALE/MATERIAL	Diametro della fresa a carotare in HSS/HSS Annular cutter diameter/ Diametre de la fraise à carotter en HSS											
	12/15	16/20	20/25	25/30	30/35	35/40	40/45	45/50	50/55	55/60	60/65	
Acciaio/Steel/Acier < 800 N/mm	v	10/12										
	s	0,15	0,20	0,25	0,25	0,30	0,35	0,35	0,40	0,40	0,45	0,45
	n	350	232	176	137	115	88	78	71	67	65	60
Acciaio/Steel/Acier > 800 N/mm	v	4 / 6										
	s	0,10	0,15	0,20	0,25	0,30	0,35	0,35	0,40	0,40	0,45	0,45
	n	159	106	80	64	53	40	36	32	30	28	25
Acciai legati/ Alloy Steel Acier Allié	v	4 / 6										
	s	0,10	0,15	0,20	0,25	0,30	0,35	0,35	0,40	0,40	0,45	0,45
	n	159	106	80	64	53	40	36	32	30	28	25
Acciai resistenti al calore Heat-resistant Steel	v	8 / 10										
	s	0,23	0,25	0,30	0,30	0,35	0,40	0,40	0,45	0,45	0,50	0,50
	n	288	191	143	115	95	73	65	58	56	50	45
Ghisa/Cast Iron/Fonte < 250 N/mm	v	8 / 10										
	s	0,23	0,25	0,30	0,30	0,35	0,40	0,40	0,45	0,45	0,50	0,50
	n	288	191	143	115	95	72	64	58	56	50	45
Ghisa/Cast Iron/Fonte > 250 N/mm	v	4 / 6										
	s	0,17	0,20	0,25	0,25	0,30	0,35	0,35	0,40	0,40	0,45	0,45
	n	159	106	80	64	53	40	36	32	30	28	25
Fusioni di acciaio/Steel Casting Moulage d'acier	v	8 / 10										
	s	0,23	0,25	0,30	0,30	0,35	0,40	0,40	0,45	0,45	0,50	0,50
	n	288	191	143	115	95	72	64	58	56	50	45
Rame/Copper/Cuivre	v	8 / 12										
	s	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,45	0,45	0,50	0,50
	n	318	212	158	127	106	80	68	54	52	46	40
Rame elettrolitico/Electrolytic Cooper/Cuivre électrolytique	v	8 / 10										
	s	0,23	0,25	0,30	0,30	0,35	0,40	0,48	0,45	0,45	0,50	0,50
	n	288	191	143	115	95	72	64	58	56	50	45
Ottone tenero/Soft Brass/ Cuivre tendre	v	10 / 12										
	s	0,30	0,35	0,40	0,40	0,45	0,50	0,50	0,60	0,60	0,65	0,65
	n	350	232	176	137	115	88	78	71	67	65	60
Ottone duro/Hard Brass/ Cuivre Dur	v	12 / 14										
	s	0,30	0,35	0,40	0,40	0,45	0,50	0,50	0,60	0,60	0,65	0,65
	n	413	276	207	166	132	104	94	83	77	70	65
Bronzo tenero/Soft Bronze/ Bronze tendre	v	15 / 25										
	s	0,30	0,35	0,40	0,40	0,45	0,50	0,50	0,60	0,60	0,65	0,65
	n	637	425	318	135	265	199	179	159	140	120	110
Bronzo duro/Hard Bronze/ Bronze Dur	v	12 / 14										
	s	0,30	0,35	0,40	0,40	0,45	0,50	0,50	0,60	0,60	0,65	0,65
	n	473	276	207	166	132	104	95	83	77	70	65
Leghe di alluminio a truciolo lungo/Long Chip Aluminium Light Alloy	v	15 / 20										
	s	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,40	0,40	0,45	0,45
	n	573	382	288	225	189	144	128	117	106	95	84
Leghe di alluminio silicio fino al 10%/Alluminium Light Alloy with Silicon <10%	v	12 / 14										
	s	0,30	0,35	0,40	0,40	0,45	0,50	0,50	0,60	0,60	0,65	0,65
	n	413	276	207	166	132	104	95	83	77	70	65
Leghe di alluminio silicio oltre a 10%/Alluminium Light Alloy with Silicon >10%	v	10 / 12										
	s	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,40	0,40	0,45	0,45
	n	350	232	176	137	115	88	78	71	67	65	60
Leghe di magnesio/Alliage Magnésium/Magnesium Alloy	v	15 / 20										
	s	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,40	0,40	0,45	0,45
	n	573	382	288	225	189	144	128	117	106	95	84
Leghe di zinco/Zinc Alloy/ Alliage Zinc	v	10 / 12										
	s	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,40	0,40	0,45	0,45
	n	350	232	176	137	115	88	78	71	67	65	60
Leghe di nichel/Alliage Nickel/ Nickel Alloy	v	8 / 12										
	s	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,45	0,45	0,50	0,50
	n	318	212	158	127	106	80	68	54	52	45	40
Leghe di titanio/Alliage Titane/ Titanium Alloy	v	4 / 6										
	s	0,10	0,15	0,20	0,25	0,30	0,35	0,35	0,40	0,40	0,45	0,45
	n	159	106	80	64	53	40	36	32	30	28	20
Mat. termoplastici/Thermoplastic Mat./Mat. Thermoplastique	v	6 / 10										
	s	0,35	0,40	0,45	0,50	0,55	0,60	0,60	0,60	0,60	0,65	0,65
	n	254	170	127	102	85	64	58	51	48	40	35
Materiali sintetici/Synthetic Mat./Mat. Synthétique	v	4 / 6										
	s	0,30	0,35	0,40	0,45	0,45	0,50	0,50	0,50	0,50	0,55	0,55
	n	159	106	80	64	53	40	36	32	30	28	20

I

VALORI INDICATIVI
DEL NUMERO DI
GIRI PER FRESE A
CAROTARE IN HSS

F

VALEURS INDICATI-
VES DES NOMBRES
DE TOURS MINUTES
POUR FRAISES À
CAROTTER EN HSS

GB

FIXING OF THE
NUMBERS OF RPM
FOR HSS ANNULAR
CUTTERS

D

DREHZAHL-
RICHTWERTE FÜR
HSS KERNBOHRER

SP

DETERMINACION
DEL NUMERO DE
REVOLUCIONES/
MINUTO PARA FRE-
SAS PARA TALADRO
ELECTRO MAGNETIO

Legenda:

v= m/min - Velocità di taglio/Cutting Speed/Vitesse de coupe/Undrehungsgeschwindigkeit/Velocidad de corte

s= min/rev - Avanzamento/Feed/Avancement/Vorschub/Avancamento

n= rev/min - Numero di giri minuto/RPM Numbers/Nombre des tours minutes/Drehzahlrichtwerte/Numero derevoluciones

- I** FRESE A CORONA PER MACCHINE A SUPPORTO MAGNETICO CON DENTI IN METALLO DURO
- F** FRAISES A CAROTTER A DENTS CARBURE POUR MACHINES A EMBASE MAGNETIQUE
- GB** ANNULAR HOLE CUTTERS WITH CARBIDE THEET FOR MAGNETIC DRILLING SYSTEM
- D** HM KERNBOHRER FÜR KERNBOHREMASCHINEN
- SP** FRESAS CON DIENTES DE METAL DURO PARA MAQUINAS CON BASE ELECTROMAGNETICA



I Le frese a corona con denti in metallo duro GP POWER per macchine a supporto magnetico sono state concepite per esigenze estreme di foratura. La particolare geometria del dente (foto A) permette una ripartizione dello sforzo su due dei tre denti. Il taglio è più dolce con conseguente aumento della longevità dell'utensile. Disponibili in misure in millimetri con profondità 35 mm e 50 mm e in pollici con profondità 1" e 2". Profondità 35 mm nei diametri dal 12 mm al 65 mm con attacco WELDON 19 mm, QUICK-IN e UNIVERSAL. Profondità 50 mm nei diametri dal 12 al 65 mm con attacco WELDON 19 mm, QUICK-IN e UNIVERSAL e dal 65 al 100 con attacco WELDON 32 mm. Profondità 1" nei diametri dal 9/16" al 1-1/16". Profondità 2" nei diametri dal 9/16" al 2"-1/4" con attacco WELDON 3/4 e dal diametro 2"-3/8" al 4" con attacco WELDON 1 - 1/4".



F Les fraises à carotter avec dents en carbure pour machine à embase magnétique GP POWER sont recommandées pour les perçages intensifs et pour les métaux tels que aciers, les inoxydables, et tous les métaux difficiles. La particularité géométrie de l'affutage permet un repartition de l'effort de coupe sur 2 séquences de 3 dents. La coupe est plus douce et la longévité de l'outil augmenté. Disponible en mm et en pouces: Profondeur 35 mm du diam. 12 au 65 mm et attachement WELDON 19 mm, QUICK-IN et UNIVERSAL. Profondeur 50 mm du diam. 12 au 100 mm. Attachement WELDON 19, QUICK-IN et UNIVERSAL jusqu'au diam. 65 et WELDON 32 mm du diam. 65 au 100 mm. Profondeur 1" du diam. 9/16 au 1 - 1/16. Attachement WELDON 3/4. Profondeur 2" du diam. 9/16 au 4". Attachement WELDON 3/4 jusqu'à diam. 2 - 3/8 et 1 - 1/4 du diam. 2 - 7/16 au 4".



WELDON SHANK

GB The Annular Hole Cutters with carbide teeth GP POWER are suitable for drilling hard material such as stainless steel, castings and higher grade wear resistant steel. The GP POWER TCT Hole cutter feature unique tips geometry and random-space tips, which provide clearly cutting, fast feed rate, less vibration, smooth hole surface and long tools life. Suitable for all core machines with Weldon shank, the GP POWER Annular cutter are available in mm and in inch. Depth 35 mm from diam. 12 to 65 mm. WELDON Shank 19 mm, QUICK-IN and UNIVERSAL. Depth 50 mm from diam. 12 to 100 mm. WELDON Shank 19 mm, QUICK-IN and UNIVERSAL until diam. 65 and WELDON Shank diam. 32 from 65 to 100 mm. Depth 1 inch from diam. 9/16 to 1 - 1/16. WELDON Shank 3/4". Depth 2 inch from diam. 9/16 to 4". WELDON Shank 3/4 until diam. 2 - 3/8 and 1 - 1/4 from diam. 2 - 7/16 to 4".



QUICK-IN SHANK

D Die HM Kernbohrer schneiden sich an der Innenschnittfläche selbst frei. Die Maße sind in mm. Schnitttiefe 35 mm (diam. 12 bis 65) WELDONSCHAFT 19 mm, QUICK-IN und UNIVERSAL. Schnitttiefe 50 mm (diam. 12 bis 100) WELDONSCHAFT 19 mm bis diam. 65 und WELDONSCHAFT 32 mm zu diam. 65 ab diam. 100 mm. Die Maße sind in Zolle: Schnitttiefe 1" (diam. 9/16 bis. diam. 1 - 1/16) WELDONSCHAFT, QUICK-IN und UNIVERSAL 3/4 und Schnitttiefe 2" (diam. 9/16 ab 4") WELDONSCHAFT 3/4 bis diam. 2 - 3/8 und WELDONSCHAFT 1-1/4 von diam. 2 - 7/16 bis 4".



UNIVERSAL SHANK

SP Las fresas de corona con diente de metal duro para maquina con soporte magnetico esta concebida para trabajos que requieren unas exigencias extremas de corte. Su particular geometria de diente permite repartir esfuerzo de la herramienta entre dos de los tres dientes. Asi plu, el corte es mas suave con el conseguiente aumento en la vida de la herramienta. Disponibles en millimetros y en pulgadas. Profundidad de corte 35 mm para diam. 12 al 65 mango WELDON de 19 mm, QUICK-IN y UNIVERSAL. Profundidad de corte 50 mm para diam. de 12 mm a 100. Mango WELDON de 19 hasta 60 mm y de 32 mm desde diam. 65 hasta 100 mm.

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30 mm							50 mm					
Ø	WELDON	€	QUICK- IN	€	UNIVERSAL	€	WELDON	€	QUICK- IN	€	UNIVERSAL	€
12	TCT12T	50,80	TCT12TF	50,80	TCT12TN	50,80	TCT12C	56,40	TCT12CF	56,40	TCT14CN	56,40
13	TCT13T	50,80	TCT13TF	50,80	TCT13TN	50,80	TCT13C	56,40	TCT13CF	56,40	TCT15CN	56,40
14	TCT14T	50,80	TCT14TF	50,80	TCT14TN	50,80	TCT14C	56,40	TCT14CF	56,40	TCT16CN	56,40
15	TCT15T	50,80	TCT15TF	50,80	TCT15TN	50,80	TCT15C	56,40	TCT15CF	56,40	TCT17CN	56,40
16	TCT16T	50,80	TCT16TF	50,80	TCT16TN	50,80	TCT16C	56,40	TCT16CF	56,40	TCT18CN	56,40
17	TCT17T	50,80	TCT17TF	50,80	TCT17TN	50,80	TCT17C	56,40	TCT17CF	56,40	TCT19CN	56,40
18	TCT18T	50,80	TCT18TF	50,80	TCT18TN	50,80	TCT18C	56,40	TCT18CF	56,40	TCT20CN	56,40
19	TCT19T	50,80	TCT19TF	50,80	TCT19TN	50,80	TCT19C	56,40	TCT19CF	56,40	TCT21CN	59,20
20	TCT20T	50,80	TCT20TF	50,80	TCT20TN	50,80	TCT20C	56,40	TCT20CF	56,40	TCT22CN	59,20
21	TCT21T	53,30	TCT21TF	53,30	TCT21TN	53,30	TCT21C	59,20	TCT21CF	59,20	TCT23CN	59,20
22	TCT22T	53,30	TCT22TF	53,30	TCT22TN	53,30	TCT22C	59,20	TCT22CF	59,20	TCT24CN	59,20
23	TCT23T	53,30	TCT23TF	53,30	TCT23TN	53,30	TCT23C	59,20	TCT23CF	59,20	TCT25CN	59,20
24	TCT24T	53,30	TCT24TF	53,30	TCT24TN	53,30	TCT24C	59,20	TCT24CF	59,20	TCT26CN	67,60
25	TCT25T	53,30	TCT25TF	53,30	TCT25TN	53,30	TCT25C	59,20	TCT25CF	59,20	TCT27CN	67,60
26	TCT26T	60,85	TCT26TF	60,85	TCT26TN	60,85	TCT26C	67,60	TCT26CF	67,60	TCT28CN	69,80
27	TCT27T	60,85	TCT27TF	60,85	TCT27TN	60,85	TCT27C	67,60	TCT27CF	67,60	TCT29CN	€69,80
28	TCT28T	60,85	TCT28TF	60,85	TCT28TN	60,85	TCT28C	€69,80	TCT28CF	69,80	TCT30CN	€69,80
29	TCT29T	60,85	TCT29TF	60,85	TCT29TN	60,85	TCT29C	€69,80	TCT29CF	€69,80	TCT31CN	€85,40
30	TCT30T	60,85	TCT30TF	60,85	TCT30TN	60,85	TCT30C	€69,80	TCT30CF	€69,80	TCT32CN	€85,40
31	TCT31T	73,50	TCT31TF	73,50	TCT31TN	73,50	TCT31C	€85,40	TCT31CF	€85,40	TCT33CN	€85,40
32	TCT32T	73,50	TCT32TF	73,50	TCT32TN	73,50	TCT32C	€85,40	TCT32CF	€85,40	TCT34CN	€85,40
33	TCT33T	73,50	TCT33TF	73,50	TCT33TN	73,50	TCT33C	€85,40	TCT33CF	€85,40	TCT35CN	€85,40
34	TCT34T	73,50	TCT34TF	73,50	TCT34TN	73,50	TCT34C	€85,40	TCT34CF	€85,40	TCT36CN	€97,70
35	TCT35T	73,50	TCT35TF	73,50	TCT35TN	73,50	TCT35C	€85,40	TCT35CF	€85,40	TCT37CN	€97,70
36	TCT36T	84,20	TCT36TF	84,20	TCT36TN	84,20	TCT36C	€97,70	TCT36CF	€97,70	TCT38CN	€97,70
37	TCT37T	84,20	TCT37TF	84,20	TCT37TN	84,20	TCT37C	€97,70	TCT37CF	€97,70	TCT39CN	€97,70
38	TCT38T	84,20	TCT38TF	84,20	TCT38TN	84,20	TCT38C	€97,70	TCT38CF	€97,70	TCT40CN	118,80
39	TCT39T	84,20	TCT39TF	84,20	TCT39TN	84,20	TCT39C	€97,70	TCT39CF	€97,70	TCT45CN	125,10
40	TCT40T	€88,10	TCT40TF	€88,10	TCT40TN	88,10	TCT40C	€118,80	TCT40CF	€118,80	TCT50CN	152,00
41	TCT41T	€89,70	TCT41TF	€89,70	TCT45TN	106,10	TCT41C	€118,80	TCT41CF	€118,80		
42	TCT42T	€93,40	TCT42TF	€93,40	TCT50TN	125,50	TCT42C	€121,00	TCT42CF	€121,00		
43	TCT43T	€96,70	TCT43TF	€96,70			TCT43C	€123,50	TCT43CF	€123,50		
44	TCT44T	102,00	TCT44TF	€102,00			TCT44C	€124,00	TCT44CF	€124,00		
45	TCT45T	€106,10	TCT45TF	€106,10			TCT45C	€125,10	TCT45CF	€125,10		
46	TCT46T	€109,60	TCT46TF	€109,60			TCT46C	€142,10	TCT46CF	€142,10		
47	TCT47T	€110,70	TCT47TF	€110,70			TCT47C	€143,00	TCT47CF	€143,00		
48	TCT48T	€112,50	TCT48TF	€112,50			TCT48C	€144,40	TCT48CF	€144,40		
49	TCT49T	€115,30	TCT49TF	€115,30			TCT49C	€145,00	TCT49CF	€145,00		
50	TCT50T	€125,50	TCT50TF	€125,50			TCT50C	€152,00	TCT50CF	€152,00		
55	TCT55T	184,90	TCT55TF	€184,90			TCT55C	€202,00	TCT55CF	€202,00		
60	TCT60T	209,70	TCT60TF	€209,70			TCT60C	€240,10	TCT60CF	€240,10		
65	TCT65T	232,10	TCT65TF	232,10			TCT65C	€252,00	TCT65CF	€252,00		
70							TCT70C	€263,50				
75							TCT75C	271,00				
80							TCT80C	290,00				
85							TCT85C	326,20				
90							TCT90C	376,20				
100							TCT100C	484,10				

Dal Ø 70 mm WELDON SHANK Ø 32/32 mm Shank from Ø 70
 Du Ø 70 mm WELDON Shank Ø 70 mm

- I** FRESE A CORONA PER MACCHINE A SUPPORTO MAGNETICO CON DENTI IN METALLO DURO - Attacco WELDON - Misure in pollici
- F** FRAISES A CAROTTER A DENTS CARBURE POUR MACHINES A EMBASE MAGNETIQUE - Attachement WELDON - En pouces
- GB** ANNULAR HOLE CUTTERS WITH CARBIDE TEETH FOR MAGNETIC DRILLING SYSTEM - WELDON Ratio - inch sizes
- D** HM KERNBOHRER FUR KERNBOHREMASCHINEN - WELDONSCHAFT - Zollmaß
- SP** FRESAS CON DIENTES DE METAL DURO PARA MAQUINAS CON BASE ELECTROMAGNETICA - Sistema WELDON - En pulgadas



1"			
Ø	 Cod.	WELDON	€
9/16	ITCT14T	3/4	50,80
5/8	ITCT16T	3/4	50,80
11/16	ITCT17T	3/4	50,80
3/4	ITCT19T	3/4	50,80
13/16	ITCT20T	3/4	50,80
7/8	ITCT22T	3/4	53,30
15/16	ITCT23T	3/4	53,30
1	ITCT25T	3/4	53,30
1-1/16	ITCT27T	3/4	60,85
1-1/8	ITCT29T	3/4	60,85
1-3/16	ITCT30T	3/4	60,85
1-1/4	ITCT32T	3/4	84,20
1-5/16	ITCT33T	3/4	84,20
1-3/8	ITCT35T	3/4	84,20
1-7/16	ITCT37T	3/4	84,20
1-1/2	ITCT38T	3/4	84,20
1-9/16	ITCT40T	3/4	88,10
1-5/8	ITCT41T	3/4	89,70
1-3/4	ITCT44T	3/4	102,00
1-13/16	ITCT46T	3/4	109,60
1-7/8	ITCT48T	3/4	112,50
1-15/16	ITCT49T	3/4	115,30
2	ITCT51T	3/4	125,50

2"			
Ø	 Cod.	WELDON	€
9/16	ITCT14C	3/4	56,40
5/8	ITCT16C	3/4	56,40
11/16	ITCT17C	3/4	56,40
3/4	ITCT19C	3/4	56,40
13/16	ITCT20C	3/4	56,40
7/8	ITCT22C	3/4	59,20
15/16	ITCT23C	3/4	59,20
1	ITCT25C	3/4	59,20
1-1/16	ITCT27C	3/4	67,60
1-1/8	ITCT29C	3/4	69,80
1-3/16	ITCT30C	3/4	69,80
1-1/4	ITCT32C	3/4	85,40
1-5/16	ITCT33C	3/4	85,40
1-3/8	ITCT35C	3/4	85,40
1-7/16	ITCT37C	3/4	97,70
1-1/2	ITCT38C	3/4	97,70
1-9/16	ITCT40C	3/4	118,80
1-5/8	ITCT41C	3/4	118,80
1-3/4	ITCT44C	3/4	124,00
1-7/8	ITCT46C	3/4	142,10
1-15/16	ITCT48C	3/4	144,40
2	ITCT49C	3/4	145,00
2-1/16	ITCT50C	3/4	152,00
2-1/8	ITCT55C	3/4	240,10
2-1/4	ITCT57C	3/4	241,10
2-3/8	ITCT60C	1-1/4	245,00
2-1/2	ITCT64C	1-1/4	252,00

- I** VALORI INDICATIVI DEL NUMERO DI GIRI E AVANZAMENTI PER FRESE A CAROTARE CON DENTI IN METALLO DURO
- F** VALEURS INDICATIVES DES NOMBRES DE TOURS MINUTES ET AVANCE POUR FRAISE À CAROTTER A DENTS CARBURE
- GB** FIXING OF THE NUMBERS OF RPM AND FEED FOR CARBIDE TEETH ANNULAR CUTTERS
- D** DREHZAHLÜBERSICHT UND VORSCHUB FÜR HM HARTMETALLBESTÜCKTE KERNBOHRER
- SP** CONDICIONES DE CORTE PARA FRESAS A CORONA CON DIENTES DE METAL DURO PARA MACHINA CON BASE ELECTROMAGNETICA



MATERIALE/MATERIAL	Diametro della fresa a carotare con denti in HM Carbide teeh Annular cutter diameter Diametre de la fraise à carotter avec dents en carbure											
	12/15	16/20	20/25	25/30	30/35	35/40	40/45	45/50	50/55	55/60	60/65	
	v	s	n	v	s	n	v	s	n	v	s	n
Acciaio/Steel/Acier < 700 N/mm	10 / 15											
	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,50	0,50	0,55	0,60	
	398	266	198	159	133	100	80	80	70	65	60	
Acciaio/Steel/Acier 700-1000 N/mm	8 / 12											
	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,40	0,40	0,45	0,50	
	318	212	158	127	106	80	70	64	60	55	50	
Acciaio/Steel/Acier 1000-1400 N/mm	8 / 10											
	0,15	0,18	0,20	0,20	0,25	0,30	0,30	0,40	0,40	0,45	0,50	
	254	170	127	120	85	64	55	51	45	40	35	
Fusioni in acciaio da 400 a 500 N/mm/Steel casting from 400 to 500 N/mm	8 / 12											
	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,50	0,50	0,55	0,60	
	318	212	158	127	106	80	70	64	60	55	50	
Fusioni in acciaio da 500 a 700 N/mm/Steel casting from 500 to 700 N/mm	6 / 10											
	0,15	0,18	0,20	0,20	0,25	0,30	0,30	0,40	0,40	0,45	0,50	
	254	170	127	102	85	64	55	51	45	40	35	
Ghisa/Cast Iron/Fonte < 250 N/mm	8 / 12											
	0,30	0,35	0,40	0,40	0,45	0,50	0,50	0,50	0,50	0,55	0,60	
	318	212	158	127	133	100	90	80	70	65	60	
Ghisa/Cast Iron/Fonte > 250 N/mm	6 / 10											
	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,50	0,50	0,55	0,60	
	254	170	127	102	106	80	70	64	60	55	60	
Ghisa tenera/Soft Cast Iron/ Fonte Tendre	8 / 12											
	0,20	0,25	0,30	0,30	0,35	0,40	0,40	0,50	0,50	0,55	0,60	
	318	212	158	127	106	80	70	64	60	55	50	
Bronzo tenero/Soft Bronze/ Bronze tendre	20 / 30											
	0,40	0,45	0,50	0,50	0,55	0,60	0,60	0,70	0,55	0,60	0,65	
	796	531	398	318	345	259	235	207	195	180	160	
Ottone duro/Hard Brass/ Cuivre Dur	15 / 25											
	0,30	0,35	0,40	0,40	0,45	0,50	0,50	0,60	0,55	0,60	0,65	
	637	425	318	255	255	199	178	159	140	120	100	
Fusioni di bronzo/Bronze Ca- sting/Moulage de Bronze	15 / 25											
	0,30	0,35	0,40	0,40	0,45	0,50	0,50	0,60	0,55	0,60	0,65	
	637	425	318	255	265	199	178	159	140	120	100	
Metalli leggeri/Light Alloy/ Alliage legers	15 / 25											
	0,30	0,35	0,40	0,40	0,45	0,50	0,50	0,60	0,55	0,60	0,65	
	637	425	318	255	265	199	178	159	140	120	100	
Materiali sintetici/Synthetic Mat./Mat. Synthétique	15 / 25											
	0,40	0,45	0,50	0,50	0,55	0,60	0,60	0,70	0,65	0,70	0,75	
	637	425	318	255	265	199	178	159	140	120	100	

Legenda:
v= m/min - Velocità di taglio/Cutting Speed/Vitesse de coupe/Undrehungsgeschwindigkeit/Velocidad de corte
s= min/rev - Avanzamento/Feed/Avancement/Vorschub/Avançamento
n= rev/min - Numero di giri minuto/RPM Numbers/Nombre des tours minutes/Drehzahlrichtwerte/Numero derevoluciones

- I** ACCESSORI PER FRESE A CORONA PER MACCHINE A SUPPORTO MAGNETICO
- F** ACCESSOIRES POUR FRAISES A CAROTTER POUR MACHINE A EMBASE MAGNETIQUE
- GB** ANNULAR CUTTER FOR MAGNETIC DRILLING SYSTEM SPARE PARTS
- D** ZUBERHORTEILE FÜR KERNBOHRER FÜR KERNBOHREMASCHINEN
- SP** ACCESORIOS PARA FRESAS PARA MAQUINAS CON BASE ELECTROMAGNETICA



Cod.	ø x L.	Per Fresa/Pour Fraises/For Cutter/Fur Kernbohrer/Para Corona	Pack	€/pc
EJ1	6,35x90	GP BORE h. 30 (HSS) - Weldon (d. 12-65)/Quick in (d. 12/65)/Universal (d. 12/18) GP POWER h. 35 (HM) - Weldon (d. 12-17)/Quick in (d. 12/65)/Universal (d. 12/17)	10	10,30
EJ2	6,35x105	GP BORE h. 50 (HSS) - Weldon (d. 12-65)/Quick in (d. 12/65)/Universal (d. 12/18) GP POWER h. 50 (HM) - Weldon (d. 12-17)/Quick in (d. 12/65)/Universal (d. 12/17)	10	10,30
EJC2	8x90	GP BORE h. 30 (HSS) - Universal (d. 12/18) GP POWER h. 50 (HM) - Weldon (d. 18-65)/Universal (d. 18/65)	5	12,90
EJC4	8x105	GP BORE h. 50 (HSS) - Universal (d. 19/65) GP POWER h. 50 (HM) - Weldon (d. 18-100)/Universal (d. 18/65)	5	14,50

- I** PUNTA DI CENTRAGGIO
- F** EJECTEUR
- GB** PILOT PIN
- D** AUSWERFERSTIFT
- SP** EXPULSOR



Cod.	ø	Per Fresa/Pour Fraises/For Cutter/Fur Kernbohrer/Para Corona	MT	€/pc
EWB01	19	GP BORE (HSS) - Weldon/Quick in/Universal - diam. 12/65 GP POWER (HM) - Weldon/Quick in/Universal - diam. 12/65	2	99,90
EWB02	19	GP BORE (HSS) - Weldon/Quick in/Universal - diam. 12/65 GP POWER (HM) - Weldon/Quick in/Universal - diam. 12/65	3	103,30
EWB03	32	GP POWER (HM) - Weldon - diam. 66/100	3	103,30

- I** ATTACCO CONO MORSE SENZA LUBRIFICAZIONE INTERNA
- F** QUEUE CONE MORSE SANS LUBRIFICATION
- GB** MORSE TAPER SHANK WITHOUT INTERNAL LUBRIFICATION
- D** MORSEKEGEL NUR SCHMIERUNG
- SP** CONO MORSE SIN LUBRIFICAZIONE



Cod.	ø	Per Fresa/Pour Fraises/For Cutter/Fur Kernbohrer/Para Corona	MT	€/pc
TWB01	19	GP BORE (HSS) - Weldon/Quick in/Universal - diam. 12/65 GP POWER (HM) - Weldon/Quick in/Universal - diam. 12/65	2	99,90
TWB02	19	GP BORE (HSS) - Weldon/Quick in/Universal - diam. 12/65 GP POWER (HM) - Weldon/Quick in/Universal - diam. 12/65	3	103,30
TWB03	32	GP POWER (HM) - Weldon - diam. 66/100	3	103,30

- I** ATTACCO CONO MORSE CON LUBRIFICAZIONE INTERNA
- F** QUEUE CONE MORSE AVEC LUBRIFICATION
- GB** MORSE TAPER SHANK WITH INTERNAL LUBRIFICATION
- D** MORSEKEGEL MIT SCHMIERUNG
- SP** CONO MORSE CON LUBRIFICAZIONE INTERNA

Cod.	Descrizione/Description	€/pc
EFW	Adattatore/Adaptateur/Adapter QUICK IN - WELDON	32,50
EFW	Adattatore/Adaptateur/Adapter WELDON - QUICK IN	32,50



- I** SET DI FRESE A CAROTARE
- F** COFFRET FRAISE A CAROTTER
- GB** ANNULAR HOLE CUTTER KIT
- D** KERNBOHRER METALKASSETTEN
- SP** JUEGOS DE FRESAS



Codice Code Code Typ Ref.	Contenuto Contenue Tools inside	€/pc
MHS	GP BORE (HSS) h. 30 diam. 12/14/16/18/20/22 + E11 - Weldon	240,40
MHS/F	GP BORE (HSS) h. 30 diam. 12/14/16/18/20/22 + E11 - Quick in	240,40
MHS/N	GP BORE (HSS) h. 30 diam. 12/14/16/18/20/22 + E11 - Universal	240,40

- I** FRESE A SVASARE A 90° CON ATTACCO WELDON IN HSS/M35
- F** FRAISES A CHANFREINER A 90° WELDON - HSS/M35
- GB** HSS/M35 90° COUNTERSINKS WITH WELDON SHANK
- D** KEGEL UND ENTGRATSENKER MIT WELDON SCHAFT - HSS/M35
- SP** AVELLADORES WELDON PARA TALADRO MAGNETICO - HSS/M35



Cod.	Ø	L.	Mat.	€/pc
FC25W	25	43	HSS/M42	97,90
FC30W	30	47	HSS/M42	117,50
FC40W	40	52	HSS/M42	156,60
FC55W	55	63	HSS/M42	215,40



- I** FRESE A TAZZA IN ACCIAIO HSS CON ROMPITRUCIOLO GP TOP
- F** TREPAN EN ACIER HSS AVEC CHANFREIN GP TOP
- GB** HSS HOLE CUTTERS WITH CHIP-BREAKER GP TOP
- D** HOHLFRÄSER AUS STAHL HSS MIT SPANBRECHERSCHNITT GP TOP
- SP** CORONAS HSS PARA ACEROS CON ROMPE-VIRUTAS GP TOP



I Frese a tazza consigliate per tutti i materiali quali INOX, FERRO, ALLUMINIO, GHISA fino ad uno spessore di 7 mm. L'utensile è venduto completo di alberino e punta dotata di molla per una più facile evacuazione della rondella tagliata.

Adattabile a tutti i trapani portatili e da banco. Si consiglia la lubrificazione durante l'utilizzo e di rispettare le velocità di taglio indicate alla pag. 1/23 del presente catalogo.

F Fraise à trépaner recommandée pour matériaux ferreux tel INOX, FER, ALUMINIUM, FONTE jusqu'au 7 mm d'épaisseur. L'outil est vendu complet avec queue et foret équipés d'un ressort pour évacuation de la rondelle coupée. Adaptée pour toutes les perceuses électroportatives et pour petites machines sensibles. Nous conseillons de lubrifier pendant l'utilisation et de respecter les vitesses indiquées à la page 1/23 de notre catalogue.

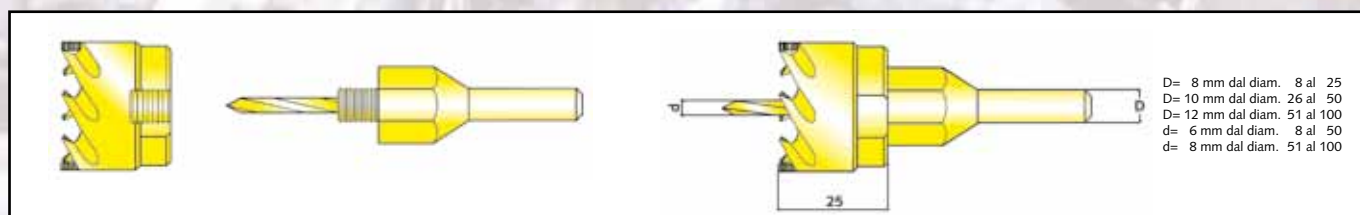
GB HSS Hole Cutters with functional characteristics that make it one of the most frequently used cutters for STAINLESS STEEL, CAST IRON, STEEL PLATES, COPPER/BRASS, ALUMINIUM until 7 mm of thickness. This tool is sold with shank a pilot drill and spring for an easy ejection of the bored material. This product is suitable for all boring machine and drill presses. We advise to lubricate during use, as well as following the cutting speed indicated on page 1/23 of this catalogue.

D Holfräser in HSS zum Bohren INOX, STAHL, EISEN, ALUMINIUM bis 7 mm Dicke. GP TOP-Hohlfräser ist ein Werkzeug, der mit dem Schaft und der Bohrspitze mit der konischen Schraubenfeder verkauft wird. Diese Schraubenfeder erlaubt eine leichte Abführung von der geschnittenen Anschlagscheibe. Dieser Werkzeug ist geeignet für die Drehbohrer und kleinen Tischbohrmaschinen. Es ist besser zu schmieren während des Gebrauchs und auch die bezeichnete Geschwindigkeiten zu achten (an Seite 1/23 des Katalogs).

SP Fresas de taza fabricada en acero rapido HSS con características funcionales que las convierta en las más usada para perforar INOX, HIERRO FUNDIDO, PLANCHA DE ACERO, ALUMINIO hasta un espesor de 7 mm. Las coronas llevan husillo incorporado y broca con muelle para mejorar la extracción de virutas. Una buena refrigeración contribuirá a alargar la vida de las fresas. Nosotros aconsejamos de respetar les velocidad de corte recomendadas a la pag. 1/23 de esto catalogo.

Codice ø Code ø Code ø Typ ø Ref. ø	h.	ø Punta ø Foret ø Drill ø Ersatzbohrer ø Broca	ø Gambo ø Queue ø Shank ø Schaft ø Vastago	Filetto Filet Thread Gewinde Rosca	Peso Poid Weight Gewicht Pesos	€
8	25	6	8	-	40 gr	12,00
9	25	6	8	-	40 gr	12,00
10	25	6	8	-	40 gr	12,00
11	25	6	8	-	40 gr	12,00
12	25	6	8	-	40 gr	12,00
13	25	6	8	-	40 gr	13,00
14	25	6	8	-	40 gr	13,00
15	25	6	8	-	40 gr	13,30
16	25	6	8	-	40 gr	13,30
17	25	6	8	12x1,25	60 gr	14,80
18	25	6	8	12x1,25	60 gr	15,40
19	25	6	8	12x1,25	60 gr	16,00
20	25	6	8	12x1,25	60 gr	16,50
21	25	6	8	12x1,25	80 gr	17,10
22	25	6	8	12x1,25	80 gr	17,90
23	25	6	8	12x1,25	80 gr	18,70
24	25	6	8	12x1,25	100 gr	19,40
25	25	6	8	12x1,25	100 gr	20,00
26	25	6	10	12x1,25	100 gr	20,90
27	25	6	10	12x1,25	120 gr	21,60
28	25	6	10	12x1,25	120 gr	22,50
29	25	6	10	12x1,25	120 gr	23,50
30	25	6	10	12x1,25	120 gr	24,30
31	25	6	10	12x1,25	120 gr	26,00
32	25	6	10	12x1,25	120 gr	26,90
33	25	6	10	12x1,25	140 gr	27,70
34	25	6	10	12x1,25	140 gr	28,80
35	25	6	10	12x1,25	160 gr	29,60
36	25	6	10	12x1,25	160 gr	30,70
37	25	6	10	12x1,25	160 gr	31,70
38	25	6	10	12x1,25	160 gr	32,80
39	25	6	10	12x1,25	180 gr	33,80
40	25	6	10	12x1,25	180 gr	34,70
41	25	6	10	12x1,25	180 gr	35,00
42	25	6	10	12x1,25	200 gr	36,30
43	25	6	10	12x1,25	200 gr	37,50
44	25	6	10	12x1,25	200 gr	38,60
45	25	6	10	12x1,25	200 gr	39,90
46	25	6	10	12x1,25	200 gr	41,10
47	25	6	10	12x1,25	200 gr	42,50
48	25	6	10	12x1,25	200 gr	43,60
49	25	6	10	12x1,25	220 gr	45,00
50	25	6	10	12x1,25	240 gr	46,20
51	25	8	12	16x1,25	300 gr	50,50
52	25	8	12	16x1,25	320 gr	51,80
53	25	8	12	16x1,25	320 gr	53,30
54	25	8	12	16x1,25	320 gr	54,90

Codice ø Code ø Code ø Typ ø Ref. ø	h.	ø Punta ø Foret ø Drill ø Ersatzbohrer ø Broca	ø Gambo ø Queue ø Shank ø Schaft ø Vastago	Filetto Filet Thread Gewinde Rosca	Peso Poid Weight Gewicht Pesos	€
55	25	8	12	16x1,25	340 gr	56,20
56	25	8	12	16x1,25	360 gr	57,80
57	25	8	12	16x1,25	360 gr	59,20
58	25	8	12	16x1,25	360 gr	60,80
59	25	8	12	16x1,25	380 gr	62,60
60	25	8	12	16x1,25	380 gr	64,20
61	25	8	12	16x1,25	380 gr	69,30
62	25	8	12	16x1,25	380 gr	71,70
63	25	8	12	16x1,25	400 gr	71,90
64	25	8	12	16x1,25	400 gr	89,60
65	25	8	12	16x1,25	420 gr	92,00
66	25	8	12	16x1,25	420 gr	94,90
67	25	8	12	16x1,25	440 gr	97,80
68	25	8	12	16x1,25	460 gr	99,20
69	25	8	12	16x1,25	460 gr	101,80
70	25	8	12	16x1,25	480 gr	104,40
71	25	8	12	16x1,25	500 gr	105,90
72	25	8	12	16x1,25	500 gr	107,40
73	25	8	12	16x1,25	500 gr	108,90
74	25	8	12	16x1,25	500 gr	110,00
75	25	8	12	16x1,25	520 gr	111,50
76	25	8	12	16x1,25	520 gr	112,90
77	25	8	12	16x1,25	520 gr	114,40
78	25	8	12	16x1,25	520 gr	115,90
79	25	8	12	16x1,25	540 gr	117,40
80	25	8	12	16x1,25	560 gr	118,80
81	25	8	12	16x1,25	560 gr	120,30
82	25	8	12	16x1,25	560 gr	121,90
83	25	8	12	16x1,25	560 gr	123,30
84	25	8	12	16x1,25	580 gr	127,00
85	25	8	12	16x1,25	620 gr	128,60
86	25	8	12	16x1,25	620 gr	130,00
87	25	8	12	16x1,25	620 gr	131,60
88	25	8	12	16x1,25	640 gr	133,10
89	25	8	12	16x1,25	640 gr	134,60
90	25	8	12	16x1,25	660 gr	136,10
91	25	8	12	16x1,25	660 gr	137,60
92	25	8	12	16x1,25	680 gr	139,10
93	25	8	12	16x1,25	680 gr	140,70
94	25	8	12	16x1,25	680 gr	142,20
95	25	8	12	16x1,25	720 gr	143,70
96	25	8	12	16x1,25	760 gr	145,20
97	25	8	12	16x1,25	800 gr	146,70
98	25	8	12	16x1,25	820 gr	148,20
99	25	8	12	16x1,25	860 gr	149,70
100	25	8	12	16x1,25	900 gr	151,20



- I** FRESE A TAZZA IN ACCIAIO HSS CON ROMPITRUCIOLO RIVESTITE TIN
- F** TREPAN EN ACIER HSS AVEC CHANFREIN REVETUES TIN
- GB** HSS HOLE CUTTERS WITH CHIP-BREAKER TIN COATED
- D** HSS HOHLFRÄSER MIT SPANBRECHERSCHNITT UND MIT NITRID TITAN ÜBERZOGEN
- SP** CORONAS HSS CON ROMPEVIRUTAS REVESTIDAS TIN



I Il rivestimento al nitruro di titanio TIN consente una drastica riduzione dell'attrito e, quindi, maggiore difficoltà all'incollaggio di materiale sulla fresa. L'utensile acquisendo maggiore durezza, sarà meno soggetto ad usura. Consigliata per lavori su materiali fortemente abrasivi (VETRORESINA, BACHELITE, PLASTICHE DURE) o difficili da lavorare (INOX, ALLUMINIO).

F Le revêtement au niture de titane TIN, permet une considérable réduction de friction et du collage des copeaux sur l'outil. Le trépan acquièr plus de dureté, est moins sujet à l'usure. Le trepan revêtu est particulièrement conseillé pour tous les travaux sur matériaux fortement abrasifs (VERRES RESINES, PLASTIQUES DURS, BAKELITES) ou difficile à usiner (INOX, ALUMINIUM).

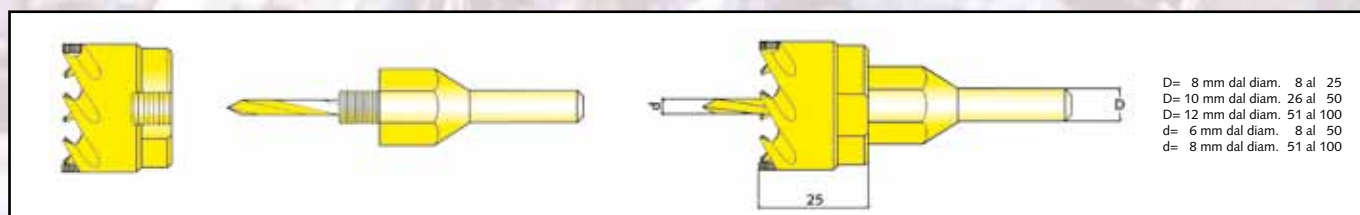
GB The coating in titanium nitride (TIN) permits a considerable reduction of the friction and, for this reason, a greater difficulty of pasting of the material on the Hole Cutters. The tool will acquire more skin hardness and it will be resisting against wear and tear. The coated Hole Cutters is advised to work abrasive materials (FIBERGLASS, BAKELITE, REINFORCED PLASTIC) or hard working material (INOX,ALUMINIUM).

D Die Nitridtitanium (TIN) Verkleidung erlaubt eine drastischen Zurückführung von der Reibungsarbeit und so eine größere Schwierigkeit von den Material an den Werkzeug sichankleben. Der Werkzeug wird mehr hart und so wird auch mehr verschleißfest. Dieses Werkzeug ist für scheuernde Materialien wie: HARZGLAS, BAKELIT und HARTE PLASTIK, oder schwierig zu arbeiten wie: INOX, ALUMINIUM.

SP Las Fresas de taza revestidas en nitruro de titanio (TIN) es especialmente recomendada para los materiales más abrasivos (FIBRA DE VIDRO, COMPOSICIONES DE GRAFITO, P.V.C.) y difficile a trabajar (ACERO INOXIDABLES, ALUMINIUM). Los revestimento TIN impides atascos y paradas de la herramienta.

Codice ø Code ø Code ø Typ ø Ref. ø	h.	ø Punta ø Foret ø Drill ø Ersatzbohrer ø Broca	ø Gambo ø Queue ø Shank ø Schaft ø Vastago	Filetto Filet Thread Gewinde Rosca	Peso Poid Weight Gewicht Pesos	€
R8	25	6	8	-	40 gr	18,40
R9	25	6	8	-	40 gr	18,40
R10	25	6	8	-	40 gr	18,40
R11	25	6	8	-	40 gr	18,40
R12	25	6	8	-	40 gr	18,40
R13	25	6	8	-	40 gr	19,20
R14	25	6	8	-	40 gr	19,20
R15	25	6	8	-	40 gr	19,50
R16	25	6	8	-	40 gr	19,50
R17	25	6	8	12x1,25	60 gr	21,70
R18	25	6	8	12x1,25	60 gr	22,60
R19	25	6	8	12x1,25	60 gr	23,50
R20	25	6	8	12x1,25	60 gr	24,30
R21	25	6	8	12x1,25	80 gr	25,30
R22	25	6	8	12x1,25	80 gr	26,50
R23	25	6	8	12x1,25	80 gr	27,70
R24	25	6	8	12x1,25	100 gr	29,10
R25	25	6	8	12x1,25	100 gr	30,20
R26	25	6	10	12x1,25	100 gr	33,80
R27	25	6	10	12x1,25	120 gr	34,60
R28	25	6	10	12x1,25	120 gr	35,40
R29	25	6	10	12x1,25	120 gr	36,20
R30	25	6	10	12x1,25	120 gr	37,00
R31	25	6	10	12x1,25	120 gr	37,80
R32	25	6	10	12x1,25	120 gr	38,50
R33	25	6	10	12x1,25	140 gr	39,80
R34	25	6	10	12x1,25	140 gr	40,90
R35	25	6	10	12x1,25	160 gr	42,20
R36	25	6	10	12x1,25	160 gr	43,30
R37	25	6	10	12x1,25	160 gr	44,50
R38	25	6	10	12x1,25	160 gr	45,80
R39	25	6	10	12x1,25	180 gr	46,90
R40	25	6	10	12x1,25	180 gr	48,20
R41	25	6	10	12x1,25	180 gr	49,30
R42	25	6	10	12x1,25	200 gr	50,60
R43	25	6	10	12x1,25	200 gr	51,80
R44	25	6	10	12x1,25	200 gr	52,80
R45	25	6	10	12x1,25	200 gr	56,10
R46	25	6	10	12x1,25	200 gr	57,20
R47	25	6	10	12x1,25	200 gr	58,60
R48	25	6	10	12x1,25	200 gr	59,80
R49	25	6	10	12x1,25	220 gr	60,10
R50	25	6	10	12x1,25	240 gr	62,50
R51	25	8	12	16x1,25	300 gr	72,20
R52	25	8	12	16x1,25	320 gr	73,80
R53	25	8	12	16x1,25	320 gr	76,20
R54	25	8	12	16x1,25	320 gr	77,80

Codice ø Code ø Code ø Typ ø Ref. ø	h.	ø Punta ø Foret ø Drill ø Ersatzbohrer ø Broca	ø Gambo ø Queue ø Shank ø Schaft ø Vastago	Filetto Filet Thread Gewinde Rosca	Peso Poid Weight Gewicht Pesos	€
R55	25	8	12	16x1,25	340 gr	79,10
R56	25	8	12	16x1,25	360 gr	80,70
R57	25	8	12	16x1,25	360 gr	82,10
R58	25	8	12	16x1,25	360 gr	83,70
R59	25	8	12	16x1,25	380 gr	85,40
R60	25	8	12	16x1,25	380 gr	87,10
R61	25	8	12	16x1,25	380 gr	100,30
R62	25	8	12	16x1,25	380 gr	102,00
R63	25	8	12	16x1,25	400 gr	103,60
R64	25	8	12	16x1,25	400 gr	112,50
R65	25	8	12	16x1,25	420 gr	115,00
R66	25	8	12	16x1,25	420 gr	160,60
R67	25	8	12	16x1,25	440 gr	163,50
R68	25	8	12	16x1,25	460 gr	165,00
R69	25	8	12	16x1,25	460 gr	167,50
R70	25	8	12	16x1,25	480 gr	170,20
R71	25	8	12	16x1,25	500 gr	171,60
R72	25	8	12	16x1,25	500 gr	173,20
R73	25	8	12	16x1,25	500 gr	174,70
R74	25	8	12	16x1,25	500 gr	175,80
R75	25	8	12	16x1,25	520 gr	177,30
R76	25	8	12	16x1,25	520 gr	178,80
R77	25	8	12	16x1,25	520 gr	180,20
R78	25	8	12	16x1,25	520 gr	181,70
R79	25	8	12	16x1,25	540 gr	183,20
R80	25	8	12	16x1,25	560 gr	184,70
R81	25	8	12	16x1,25	560 gr	186,10
R82	25	8	12	16x1,25	560 gr	188,50
R83	25	8	12	16x1,25	560 gr	189,10
R84	25	8	12	16x1,25	580 gr	192,90
R85	25	8	12	16x1,25	620 gr	194,40
R86	25	8	12	16x1,25	620 gr	195,90
R87	25	8	12	16x1,25	620 gr	197,50
R88	25	8	12	16x1,25	640 gr	199,00
R89	25	8	12	16x1,25	640 gr	200,50
R90	25	8	12	16x1,25	660 gr	202,00
R91	25	8	12	16x1,25	660 gr	203,50
R92	25	8	12	16x1,25	680 gr	205,00
R93	25	8	12	16x1,25	680 gr	206,40
R94	25	8	12	16x1,25	680 gr	208,00
R95	25	8	12	16x1,25	720 gr	209,60
R96	25	8	12	16x1,25	760 gr	211,00
R97	25	8	12	16x1,25	800 gr	212,60
R98	25	8	12	16x1,25	820 gr	214,10
R99	25	8	12	16x1,25	860 gr	215,60
R100	25	8	12	16x1,25	900 gr	223,40



- I** FRESE A TAZZA IN HSS/M2 DIAMETRI IN POLLICI GP TOP - SOLO TAZZA
- F** TREPANS HSS/M2 DIAMETRES EN POUCES GP TOP - SANS QUEUE ET FORET
- GB** HSS/M2 HOLE CUTTERS - INCH DIAMETERS GP TOP - WITHOUT SHANK AND DRILL
- D** HSS/M2 HOHLFRÄSER - TIEFSCHITTAUSFÜHRUNG GP TOP - NUR SCHAFT
- SP** CORONAS HSS REAFILABLE CON ROMPE-VIRUTAS - DIAMETROS EN PULGADAS GP TOP - SIN HUSILLO



Ø	Filetto Filet Thread Gewinde Rosca	HSS/M2		HSS/M2 + TIN		HSS/M2 + TiAIN	
		Codice Code Code Typ Ref.	€	Codice Code Code Typ Ref.	€	Codice Code Code Typ Ref.	€
5/16"	3/8"-24	US793WS	12,00	USR793WS	18,40	US793FTWS	19,80
3/8"	3/8"-24	US952WS	12,00	USR952WS	18,40	US952FTWS	19,80
7/16"	3/8"-24	US111WS	12,00	USR111WS	18,40	US111FTWS	19,80
1/2"	3/8"-24	US12WS	12,00	USR12WS	18,40	US12FTWS	19,80
9/16"	3/8"-24	US14WS	13,00	USR14WS	19,20	US14FTWS	21,50
5/8"	3/8"-24	US16WS	13,30	USR16WS	19,50	US16FTWS	22,00
3/4"	3/8"-24	US19WS	16,00	USR19WS	23,50	US19FTWS	26,40
13/16"	1/2"-20	US21WS	17,10	USR21WS	25,30	US21FTWS	28,30
7/8"	1/2"-20	US22WS	17,90	USR22WS	26,50	US22FTWS	29,60
15/16"	1/2"-20	US24WS	19,40	USR24WS	29,10	US24FTWS	32,00
1"	1/2"-20	US25WS	20,00	USR25WS	30,20	US25FTWS	33,00
1-1/16"	1/2"-20	US27WS	21,60	USR27WS	34,60	US27FTWS	35,70
1-1/8"	1/2"-20	US29WS	23,50	USR29WS	36,20	US29FTWS	38,80
1-3/16"	1/2"-20	US30WS	24,30	USR30WS	37,00	US30FTWS	40,10
1-1/4"	1/2"-20	US32WS	26,90	USR32WS	38,50	US32FTWS	44,40
1-5/16"	1/2"-20	US33WS	27,70	USR33WS	39,80	US33FTWS	45,70
1-3/8"	5/8"-18	US35WS	29,60	USR35WS	42,20	US35FTWS	48,90
1-7/16"	5/8"-18	US37WS	31,70	USR37WS	44,50	US37FTWS	52,30
1-1/2"	5/8"-18	US38WS	32,80	USR38WS	45,80	US38FTWS	54,20
1-9/16"	5/8"-18	US40WS	34,70	USR40WS	48,20	US40FTWS	57,30
1-5/8"	5/8"-18	US41WS	35,00	USR41WS	49,30	US41FTWS	57,80
1-11/16"	5/8"-18	US43WS	37,50	USR43WS	51,80	US43FTWS	61,90
1-3/4"	5/8"-18	US44WS	38,60	USR44WS	52,80	US44FTWS	63,70
1-13/16"	5/8"-18	US46WS	41,10	USR46WS	57,20	US46FTWS	67,80
1-7/8"	5/8"-18	US48WS	43,60	USR48WS	59,80	US48FTWS	72,00
2"	5/8"-18	US51WS	50,50	USR51WS	72,20	US51FTWS	83,40
2-1/16"	5/8"-18	US52WS	51,80	USR52WS	73,80	US52FTWS	85,50
2-1/8"	5/8"-18	US54WS	54,90	USR54WS	77,80	US54FTWS	90,60
2-1/4"	5/8"-18	US57WS	59,20	USR57WS	82,10	US57FTWS	97,70
2-3/8"	5/8"-18	US60WS	64,20	USR60WS	87,10	US60FTWS	106,00
2-1/2"	5/8"-18	US64WS	89,60	USR64WS	112,50	US64FTWS	147,90
2-9/16"	5/8"-18	US65WS	92,00	USR65WS	115,00	US65FTWS	151,80
2-5/8"	5/8"-18	US67WS	97,80	USR67WS	163,50	US67FTWS	161,40
2 3/4"	5/8"-18	US70WS	104,40	USR70WS	170,20	US70FTWS	172,30
2 7/8"	5/8"-18	US73WS	108,90	USR73WS	174,70	US73FTWS	179,70
3"	5/8"-18	US76WS	112,90	USR76WS	178,80	US76FTWS	186,30
3 1/8"	5/8"-18	US79WS	117,40	USR79WS	183,20	US79FTWS	193,70
3 1/4"	5/8"-18	US83WS	123,30	USR83WS	189,10	US83FTWS	203,50
3 3/8"	5/8"-18	US86WS	130,00	USR86WS	195,90	US86FTWS	214,50
3 1/2"	5/8"-18	US89WS	134,60	USR89WS	200,50	US89FTWS	222,10
3 5/8"	5/8"-18	US92WS	139,10	USR92WS	205,00	US92FTWS	230,00
3 3/4"	5/8"-18	US95WS	143,70	USR95WS	209,60	US95FTWS	237,10
3 7/8"	5/8"-18	US98WS	148,20	USR98WS	214,10	US98FTWS	244,60
4"	5/8"-18	US102WS	151,20	USR102WS	223,40	US102FTWS	249,50

- I** ACCESSORI PER FRESE A TAZZA HSS GP TOP E GP TOP RIVESTITE
- F** ACCESSOIRES POUR TREPANS HSS GP TOP ET GP TOP REVETUES
- GB** ACCESSORIES FOR HSS HOLE CUTTERS GP TOP AND COATED GP TOP
- D** ZUBEHÖRTEILE FÜR HOHLFRÄSER GP TOP UND GP TOP - TIN
- SP** ACCESORIOS PARA CORONAS HSS GP TOP Y GP TOP REVESTIDAS TIN

Codice Code Code Typ Ref.	∅ Fresa ∅ Trepan ∅ Hole Saw ∅ Hohlfräser ∅ Corona	Tipo Type Type Typ Tipo	∅ Gambo ∅ Queue ∅ Shank ∅ Schaft ∅ Vastago	∅ Punta ∅ Foret ∅ Drill ∅ Ersatzbohrer ∅ Broca	Filetto Filet Thread Gewinde Rosca	€
mm						
AT 12 P	17-25	GP TOP	8	6	12x1,25	8,80
AT 12	26-50	GP TOP	10	6	12x1,25	8,20
AT 16	51-100	GP TOP	12	8	12x1,25	11,40
ATR 12 P	17-25	GP TIN	8	6	12x1,25	12,20
ATR 12	26-50	GP TIN	10	6	12x1,25	13,10
ATR 16	51-100	GP TIN	12	8	16x1,25	17,10
inch						
AT 12 HP	5/16" - 3/4"	GP TOP	3/8	5/32	3/8x24	8,20
AT 12 H	13/16" - 1-1/4"	GP TOP	3/8	1/4	1/2x20	8,80
AT 16 H	1/5" - 16-4	GP TOP	1/2	1/4	5/8x18	11,40



- I** GAMBI DI RICAMBIO CON PUNTA
- F** QUEUES DE RECHANGE AVEC FORET
- GB** SHANK WITH DRILL
- D** SCHÄFTE MIT BOHRERSPITZE
- SP** HUSILLO CON BROCA

Codice Code Code Typ Ref.	∅ Fresa ∅ Trepan ∅ Hole Saw ∅ Hohlfräser ∅ Corona	Tipo Type Type Typ Tipo	Cono Morse Cone Morse Morse Taper Kegelschaft Cono Morse	∅ Punta ∅ Foret ∅ Drill ∅ Ersatzbohrer ∅ Broca	Filetto Filet Thread Gewinde Rosca	€
CM 12	17-50	GPT-GP TOP	2	6	12x1,25	20,30
CM 16	51-100	GPT-GP TOP	2	8	16x1,25	21,10
CMR 12	17-50	GP TIN	2	6	12x1,25	32,00
CMR 16	51-100	GP TIN	2	8	16x1,25	33,00



- I** ATTACCO CONO MORSE PER FRESE A TAZZA
- F** CONE MORSE POUR TREPANS HSS
- GB** MORSE TAPER CENTRE FOR HSS HOLE CUTTERS
- D** KEGELSCHAFT FÜR HSS HOHLFRÄSER
- SP** CONO MORSE PARA CORONAS HSS

Codice Code Code Typ Ref.	∅ Fresa ∅ Trepan ∅ Hole Saw ∅ Hohlfräser ∅ Corona	Tipo Type Type Typ Tipo	Lunghezza Totale Longueur Totale Total Length Gesamtlänge Longitud Total	∅ Punta ∅ Foret ∅ Drill ∅ Ersatzbohrer ∅ Broca	€
mm					
PP6	8-16	GPT-GP TOP	45 mm	6	3,80
P 6	17-50	GPT-GP TOP	50 mm	6	3,80
P 8	51-100	GPT-GP TOP	60 mm	8	4,80
PPR6	8-16	GP TIN	45 mm	6	7,40
PR 6	17-50	GP TIN	50 mm	6	7,40
PR 8	51-100	GP TIN	60 mm	8	8,40
inch					
P400	5/16-3/4	GP TOP	2	5/32	3,80
P635	13/16-4	GP TOP	1 2-1/8	1/4	3,80



- I** PUNTA DI RICAMBIO PER FRESE A TAZZA
- F** FORET DE RECHANGE POUR TREPAN HSS
- GB** DRILL FOR HSS HOLE CUTTERS
- D** BOHRSPITZE FÜR HSS HOHLFRÄSER
- SP** BROCA PARA CORONAS

Codice Code Code Typ Ref.	∅ Fresa ∅ Trepan ∅ Hole Saw ∅ Hohlfräser ∅ Corona	Tipo Type Type Typ Tipo	∅ Punta ∅ Foret ∅ Drill ∅ Ersatzbohrer ∅ Broca	€
mm				
MR 6	14-50	GP TOP-GP TIN	6	0,13
MR 8	51-100	GP TOP-GP TIN	8	0,17
inch				
USRMR400	5/16-3/4	GP TOP	5/32	0,13
USRMR634	13/16-4	GP TOP	1/4	0,17



- I** MOLLA PER FRESE A TAZZA
- F** RESSORT POUR TREPAN
- GB** SPRING FOR HOLE CUTTERS
- D** FEDER FÜR HOHLFRÄSER
- SP** MUELLE PARA CORONAS

ø	Inch	Inox Inox Inox Inox	Ghisa Fonte Cast Iron Eisen Hierro Fundido	Acciaio Acier Steel Stahl Acero	Alluminio Aluminium Aluminium Aluminium	Ottone/Rame Laiton/Cuivre Brass/Copper Messing/Kupfer Laiton/Cobre
8	5/16	350	450	750	1500	1300
9		340	450	740	1400	1200
10	3/8	330	430	720	1100	1000
11	7/16	330	410	720	1100	1000
12	1/2	320	410	700	1000	900
13		320	410	700	1000	900
14	9/16	310	400	620	940	800
15		290	380	550	900	770
16	5/8	375	365	550	825	730
17		260	340	520	775	680
18		245	320	500	720	650
19	3/4	230	300	460	690	600
20		210	280	425	635	560
21	13/16	205	270	410	610	540
22	7/8	195	260	390	585	520
23		190	245	375	550	490
24	15/16	180	235	360	530	470
25	1	175	235	350	525	470
26		165	220	325	500	450
27	1-1/16	160	215	325	485	435
28		155	200	310	460	420
29	1-1/8	150	200	300	450	400
30	1-3/16	145	190	285	425	380
31		140	180	280	415	365
32	1-1/4	140	180	275	410	360
33	1-5/16	135	175	260	390	345
34		130	170	255	385	330
35	1-3/8	125	165	250	375	330
36		120	160	245	360	310
37	1-7/16	115	155	235	350	310
38	1-1/2	115	150	230	345	300
39		110	145	220	330	290
40	1-9/16	110	140	215	315	280
41	1-5/8	105	140	210	315	280
42		100	130	205	300	270
43	1-11/16	100	130	200	290	260
44	1-3/4	95	130	195	290	260
45		90	125	190	295	250
46	1-13/16	90	125	185	280	250
47		90	120	180	275	240
48	1-7/8	90	120	180	270	240
49		90	120	175	265	230
50		85	115	170	260	230
51	2	80	115	170	255	230
52	2-1/16	80	110	165	250	220
53		80	110	165	245	220
54	2-1/8	80	105	160	240	210
55		75	105	160	235	210
56		75	100	155	230	200
57	2-1/4	70	100	150	225	200
58		70	95	145	225	190
59		70	95	145	220	190
60	2-3/8	70	95	140	220	190
61		65	95	140	215	190
62		65	90	140	215	190
63		65	90	135	210	190
64	2-1/2	60	90	135	205	180
65	2-9/16	60	90	135	205	180
66		60	85	130	200	175
67	2-5/8	60	85	130	195	170
68		60	85	130	190	170
69		60	85	125	190	165
70	2-3/4	60	80	125	185	160
71		60	80	125	185	160
72		60	80	120	180	160
73	2-7/8	55	80	120	185	160
74		55	75	120	175	150
75		55	75	115	175	150
76	3	55	75	115	170	150
77		55	70	115	170	150
78		55	70	110	165	150
79	3-1/8	50	70	110	165	140
80		50	70	110	160	140
81		50	70	110	160	140
82		50	70	105	155	140
83	3-1/4	50	70	105	155	140
84		50	65	105	150	135
85		50	65	100	150	130
86	3-3/8	45	65	100	145	130
87		45	65	100	145	130
88		45	60	95	145	130
89	3-1/2	45	60	95	145	130
90		45	50	95	140	125
91		45	60	95	140	125
92	3-5/8	45	60	95	140	120
93		45	60	90	140	120
94		45	60	90	135	120
95	3-3/4	45	60	90	135	120
96		45	60	90	135	120
97		45	60	90	135	115
98	3-7/8	45	60	90	135	115
99		40	55	85	130	115
100	4	40	55	85	130	115

I VALORI INDICATIVI DEL NUMERO DI GIRI PER FRESE A TAZZA GP TOP E GP TIN.

F VALEURS INDICATIVES DES NOMBRES DE TOURS MINUTES POUR TREPANS HSS GP TOP, GP TIN.

GB FIXING OF THE NUMBERS OF RPM FOR HSS HOLE CUTTERS GP TOP AND GP TIN.

D DREHZAHLEICHTWERTE FÜR HSS ÜBERZUGENE HOHLFRÄSER GP TOP UND GP TIN.

SP DETERMINACION DEL NUMERO DE REVOLUCIONES/MINUTO PARA CORONAS HSS GP TOP Y GP TIN.

**GP
TOP**

**GP
TIN**

- I** ESPOSITORI FRESE A TAZZA HSS
- F** PRESENTOIRS TREPANS HSS
- GB** HSS HOLE CUTTERS DISPLAYER
- D** HSS LOCHSÄGEN AUSSTELLREGALE
- SP** EXPOSITORES CORONAS HSS



Cod. E 21 P/TOP

art.: 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28
29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - P6

Dim. (mm): 300x230x90

Peso/Poid/Weight (gr): 4000

€ 515,20

Cod. E 33 P/TOP

art.: 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22
23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34
35 - 36 - 37 - 38 - 39 - 40 - 42 - 45 - 50

Dim. (mm): 300x230x90

Peso/Poid/Weight (gr): 5000

€ 815,40



Cod. E 41 P/TOP

art.: 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19
20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29
30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39
40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50

Dim. (mm): 410x230x110

Peso/Poid/Weight (gr): 7000

€ 1.074,60

I A richiesta
S/Demande
On request

- I** VALIGIA PER FRESE A TAZZA
- F** VALISES TREPANS HSS
- GB** HSS HOLE CUTTERS CARRYING-CASE
- D** HOHLFRÄSERKOFFER
- SP** JUEGOS DE CORONAS HSS EN ESTUCHE



METAL



Cod. CV32HS/TOP

art.: 12 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37
38 - 39 - 40 - 42 - 45 - 48 - 50

Dim. (mm): 400x290x80

Peso/Poid/Weight (gr): 6000

€ 850,00

- I** VALIGIA SPECIALE PER ELETTRICISTI
- F** COMPOSITIONS SPECIALES ELECTRICIENS
- GB** ELECTRICIANS' CARRYING-CASE
- D** KOFFER FÜR ELEKTROINSTALLATEUR
- SP** JUEGOS DE CORONAS PARA ELECTRICISTAS

PLASTIC



Cod. CV6HS

Ø: 15,2 - 18,6 - 20,4 - 22,5 - 28,3 - 36,6

Dim. (mm): 240x180x40

Peso/Poid/Weight (gr): 750

€ 142,60

- I** FRESE A TAZZA IN METALLO DURO GP INTEGRAL
- F** TREPANS MONOBLOC AVEC DENTS EN CARBURE GP INTEGRAL
- GB** CARBIDE TIPPED HOLE CUTTERS GP INTEGRAL
- D** HM-LOCHSÄGEN GP INTEGRAL
- SP** CORONA CON DIENTES DE METAL DURO GP INTEGRAL

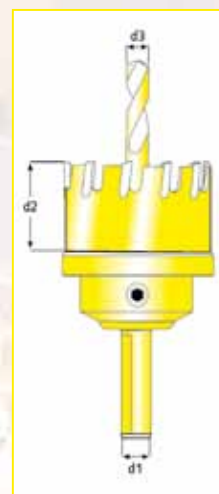


- I** Fresa a tazza speciale per INOX, PVC, ALLUMINIO, FIBRA DI VETRO e in generale, materiali fortemente abrasivi. Il gambo costituisce un corpo unico con la tazza, permettendo una forte diminuzione delle vibrazioni durante il taglio ed una maggiore precisione di foratura. La punta guida, in acciaio al cobalto, è intercambiabile e dotata di molla: questa facilita l'espulsione della rondella tagliata e permette di ammortizzare la velocità di uscita della punta. Disponibile in mm dal diam. 16 al 100 e in pollici dal diam. 5/8 a 4".
- F** Trepan à pastilles carbure, monobloc, utilisable sur machine d'atelier avec foret et ressort interchangeables. Le ressort, amorti les chocs et facilite l'éjection de la rondelle découpée. Destiné au perçage des INOX, ALLIAGE NON FERREUX, MATIERES ABRASIVES, PVC ET RESINES SYNTHETIQUES. Disponibles en mm du diam. 16 au 100 et en pouces du diam. 5/8 au 4".
- GB** Tungsten Carbide Tipped Hole Cutters for STAINLESS STILL, PVC, FIBERGLASS and abrasive materials. It's a tool in one piece type suitable for portable and pillar drilling machine. The integral shank allow an absolute concentricity of holing and a big reduction of vibrations during utilisation. The pilot drill is with spring for a good evacuation of the plug. Available in metric sizes from 16 mm to 100 mm and inch sizes from 5/8 to 4".
- D** HM Lochsägen-Flachschnittausführung für INOX, PVC, ALUMINIUM, KUNSTSTOFFEN, GLASFIBER. Flachschnittausführung, Krone und Schaft aus einen Stück mit auswechselbaren Zentrierbohrern. Ergeben sich folgende Vorzüge: Vibrationsarmes sägen und eine bessere Rundlauf tolerenzen. Die Bohrspitze, aus Sthal-Kobalt wird der konischen Schraubenfeder verkauft. Diese Schraubenfeder erlaubt eine leichte Abführung der geschnittene Anschlagsscheide. Metricmaß diam. 16 bis 100 mm und ZollMab de 5/8" bis 4".
- SP** Corona para ACERO INOXIDABLES, PVC, ALUMINIO, FIBRA DE VIDRIO y todo los materiales fuertemente abrasivos. Este tipo a corpo unico reduce vibraciones y el tipo de dentado mejora el desahogo de la viruta. Dotados de brocas guía intercambiables con muelle. Diametros metricos de diam. 16 a 100 mm y en pulgadas de diam. 5/8" a 4".

- I** FRESE A TAZZA IN METALLO DURO GP INTEGRAL - Diametri in mm
- F** TREPANS MONOBLOC AVEC DENTS EN CARBURE GP INTEGRAL - Diametres en mm
- GB** CARBIDE TIPPED HOLE CUTTERS GP INTEGRAL - Metric sizes
- D** HM-LOCHSÄGEN GP INTEGRAL - Metricmaß
- SP** CORONA CON DIENTES DE METAL DURO GP INTEGRAL - Diametros metricos

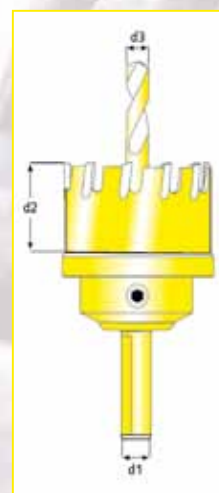


Codice Code Typ Ref.	Ø	d1	d2	d3	€	Codice Code Typ Ref.	Ø	d1	d2	d3	€	Codice Code Typ Ref.	Ø	d1	d2	d3	€
CT16	16	10	15	6	41,50	CT39	39	10	15	6	72,60	CT62	62	13	15	6	142,90
CT17	17	10	15	6	41,50	CT40	40	10	15	6	72,60	CT63	63	13	15	6	142,90
CT18	18	10	15	6	41,50	CT41	41	10	15	6	83,70	CT64	64	13	15	6	142,90
CT19	19	10	15	6	45,90	CT42	42	10	15	6	83,70	CT65	65	13	15	6	142,90
CT20	20	10	15	6	45,90	CT43	43	10	15	6	83,70	CT66	66	13	15	6	154,80
CT21	21	10	15	6	45,90	CT44	44	10	15	6	83,70	CT67	67	13	15	6	154,80
CT22	22	10	15	6	45,90	CT45	45	10	15	6	83,70	CT68	68	13	15	6	154,80
CT23	23	10	15	6	45,90	CT46	46	10	15	6	95,60	CT69	69	13	15	6	154,80
CT24	24	10	15	6	45,90	CT47	47	10	15	6	95,60	CT70	70	13	15	6	154,80
CT25	25	10	15	6	45,90	CT48	48	10	15	6	95,60	CT71	71	13	15	6	166,70
CT26	26	10	15	6	53,40	CT49	49	10	15	6	95,60	CT72	72	13	15	6	166,70
CT27	27	10	15	6	53,40	CT50	50	10	15	6	95,60	CT73	73	13	15	6	166,70
CT28	28	10	15	6	53,40	CT51	51	10	15	6	106,60	CT74	74	13	15	6	166,70
CT29	29	10	15	6	53,40	CT52	52	13	15	6	106,60	CT75	75	13	15	6	166,70
CT30	30	10	15	6	53,40	CT53	53	13	15	6	106,60	CT76	76	13	15	6	180,00
CT31	31	10	15	6	62,30	CT54	54	13	15	6	106,60	CT77	77	13	15	6	180,00
CT32	32	10	15	6	62,30	CT55	55	13	15	6	106,60	CT78	78	13	15	6	180,00
CT33	33	10	15	6	62,30	CT56	56	13	15	6	121,40	CT79	79	13	15	6	180,00
CT34	34	10	15	6	62,30	CT57	57	13	15	6	121,40	CT80	80	13	15	6	180,00
CT35	35	10	15	6	62,30	CT58	58	13	15	6	121,40	CT85	85	13	15	6	199,00
CT36	36	10	15	6	72,60	CT59	59	13	15	6	121,40	CT90	90	13	15	6	216,20
CT37	37	10	15	6	72,60	CT60	60	13	15	6	121,40	CT95	95	13	15	6	225,90
CT38	38	10	15	6	72,60	CT61	61	13	15	6	142,90	CT100	100	13	15	6	242,40



- I** FRESE A TAZZA IN METALLO DURO GP INTEGRAL - Diametri in pollici
- F** TREPANS MONOBLOC AVEC DENTS EN CARBURE GP INTEGRAL - Diametres en pouces
- GB** CARBIDE TIPPED HOLE CUTTERS GP INTEGRAL - Inch sizes
- D** HM-LOCHSÄGEN GP INTEGRAL - Zollmaß
- SP** CORONA CON DIENTES DE METAL DURO GP INTEGRAL - Diametros en pulgadas

Codice Code Typ Ref.	Ø	d1	d2	d3	€	Codice Code Typ Ref.	Ø	d1	d2	d3	€	Codice Code Typ Ref.	Ø	d1	d2	d3	€
TCT9/16	9/16	3/8	5/8	1/4	41,50	TCT1-9/16	1-9/16	3/8	5/8	1/4	72,60	TCT2-9/16	2-9/16	1/2	5/8	1/4	142,90
TCT5/8	5/8	3/8	5/8	1/4	41,50	TCT1-5/8	1-5/8	3/8	5/8	1/4	83,70	TCT2-5/8	2-5/8	1/2	5/8	1/4	154,80
TCT11/16	11/16	3/8	5/8	1/4	41,50	TCT1-11/16	1-11/16	3/8	5/8	1/4	83,70	TCT2-11/16	2-11/16	1/2	5/8	1/4	154,80
TCT3/4	3/4	3/8	5/8	1/4	45,90	TCT1-3/4	1-3/4	3/8	5/8	1/4	83,70	TCT2-3/4	2-3/4	1/2	5/8	1/4	154,80
TCT13/16	13/16	3/8	5/8	1/4	45,90	TCT1-13/16	1-13/16	3/8	5/8	1/4	95,60	TCT2-13/16	2-13/16	1/2	5/8	1/4	166,70
TCT7/8	7/8	3/8	5/8	1/4	45,90	TCT1-7/8	1-7/8	3/8	5/8	1/4	95,60	TCT2-7/8	2-7/8	1/2	5/8	1/4	180,00
TCT15/16	15/16	3/8	5/8	1/4	45,90	TCT1-15/16	1-15/16	3/8	5/8	1/4	95,60	TCT2-15/16	2-15/16	1/2	5/8	1/4	180,00
TCT1	1	3/8	5/8	1/4	45,90	TCT2	2	3/8	5/8	1/4	106,60	TCT3	3	1/2	5/8	1/4	180,00
TCT1-1/16	1-1/16	3/8	5/8	1/4	53,40	TCT2-1/16	2-1/16	3/8	5/8	1/4	106,60	TCT3-1/8	3-1/8	1/2	5/8	1/4	180,00
TCT1-1/8	1-1/8	3/8	5/8	1/4	53,40	TCT2-1/8	2-1/8	3/8	5/8	1/4	106,60	TCT3-1/4	3-1/4	1/2	5/8	1/4	180,00
TCT3/16	1-3/16	3/8	5/8	1/4	53,40	TCT2-3/16	2-3/16	3/8	5/8	1/4	106,60	TCT3-3/8	3-3/8	1/2	5/8	1/4	199,00
TCT1-1/4	1-1/4	3/8	5/8	1/4	62,30	TCT2-1/4	2-1/4	3/8	5/8	1/4	121,40	TCT3-1/2	3-1/2	1/2	5/8	1/4	216,20
TCT1-5/16	1-5/16	3/8	5/8	1/4	62,30	TCT2-5/16	2-5/16	3/8	5/8	1/4	121,40	TCT3-5/8	3-5/8	1/2	5/8	1/4	216,20
TCT1-3/8	1-3/8	3/8	5/8	1/4	62,30	TCT2-3/8	2-3/8	3/8	5/8	1/4	121,40	TCT3-3/4	3-3/4	1/2	5/8	1/4	225,90
TCT1-7/16	1-7/16	3/8	5/8	1/4	72,60	TCT2-7/16	2-7/16	1/2	5/8	1/4	142,90	TCT3-7/8	3-7/8	1/2	5/8	1/4	242,40
TCT1-1/2	1-1/2	3/8	5/8	1/4	72,60	TCT2-1/2	2-1/2	1/2	5/8	1/4	142,90	TCT4	4	1/2	5/8	1/4	242,40



- I** FRESE A TAZZA IN METALLO DURO - SERIE PROFONDA - GP CARB
- F** TREPANS MONOBLOC AVEC DENTS EN CARBURE - SERIE PROFONDE - GP CARB
- GB** CARBIDE TIPPED HOLE CUTTERS - LONG SERIES - GP CARB
- D** HM-TIEFSCHNITTAUSFÜHRUNG HOHLFRÄSER - GP CARB
- SP** CORONA CON DIENTES DE METAL DURO SERIE LARGA - GP CARB



I Frese a tazza speciale per INOX, PVC, FIBRA DI VETRO e, in generale, materiali fortemente abrasivi. Il gambo costituisce un corpo unico con la tazza, permette un utilizzo su trapani a colonna e la punta, intercambiabile, è dotata di molla di espulsione. L'altezza utile di 35 mm (fino al diam. 60) e 60 mm (dal diam. 60 al 100) permette la foratura di materiali abrasivi, PVC e sintetici fino ad uno spessore di 35 mm. La profondità permette anche la foratura di tubi d'acciaio, scatolati e profilati a U o a T. Disponibile in mm dal 20 al 100 in un solo prezzo e in pollici dal diam. 5/8 al 4".

F Trepan à pastilles carbure, monobloc, utilisable sur machines d'atelier, avec foret et ressort interchangeables. Serie profonde destinée au perçage des Inox, Alliage non ferreux, Matieres abrasive, PVC et Resines synthetiques jusqu'à 35 mm d'épaisseur. La hauteur de 35 mm (jusqu'au diam. 60) et 60 mm (du diam. 65 au 100) est ideale pour gruger les tubes acier et inox et pour les profils en U. Disponibles en mm du 20 au 100 et en pouces du 5/8 au 4.

GB Tungsten Carbide Tipped Hole Cutters for fast, clean drilling of large holes in various material such as stainless steel pipe, vaulted material, channel steel, square pipes, I-beams. The shank allows absolute concentricity for hole drilling and a significant reduction of vibrations during operations: the special tip setting design eliminates sticking, vibration and tip damage. Max working thickness: 35 mm/1 - 1/2. Available in Metric sizes from 20 mm to 100 mm, one piece type. Available in Inch sizes from 20 mm to 100 mm, one piece type.

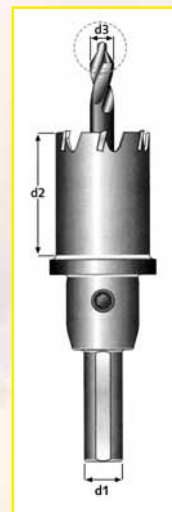
D Diese Lochsägen mit Hartmetallschneiden inklusive Aufnahmehalter und HSS Zenterbohrer, eine lange Ausführung haben. Für alle Bohrungen bis 4 mm Blechstarke und maximal 35 mm. Schnitttiefe, das Gewinde, für ihre dicke Steigung, eine gute Resistenz des Schafts erlaubt. Mit diesen Schafts gibt es eine große Zurückführung der Vibrationen, während des Gebrauchs. Verfügar in mm ab diam. 20 zu 100 mm nur einen stück. Verfügar aus zolle ab diam. 5/8 zu 4": ab 5/8 zu 1-1/8 nur einen Stück.

SP Coronas con dientes de metal duro recomendada para Acero Inoxidables, Aceros, Cobre, Aluminio, Fundicion, Zinc, P.V.C., Fibra de vidrio, Madera. Especialmente recomendada para tuberias y superficies curvas. Este tipo de cuerpo unico reduce vibraciones y el tipo de dentado mejora el desahogo de la viruta. Dotadas de brocas guia intercambiables, corta hasta un espesor de 35 mm. Diametros metricos de 20 mm a 100 mm, fabricadas en una sola pieza. Diametros en pulgadas de 5/8 a 4, fabricadas en una sola pieza.

- I** FRESE A TAZZA IN METALLO DURO - SERIE PROFONDA GP CARB - Diametri in mm
- F** TREPANS MONOBLOC AVEC DENTS EN CARBURE - SERIE PROFONDE - GP CARB - Diametre en mm
- GB** CARBIDE TIPPED HOLE CUTTERS - LONG SERIES - GP CARB - Metric sizes
- D** HM-TIEFSCHNITTAUSFÜHRUNG HOHLFRÄSER - GP CARB - Metricmaß
- SP** CORONA CON DIENTES DE METAL DURO SERIE LARGA - GP CARB - Diametros metricos

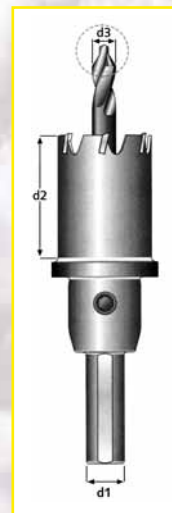


Codice Code Code Typ Ref.	Ø	d1	d2	d3	€	Codice Code Code Typ Ref.	Ø	d1	d2	d3	€	Codice Code Code Typ Ref.	Ø	d1	d2	d3	€
CTR20	20	10	35	6	66,60	CTR34	34	10	35	6	86,40	CTR48	48	10	35	6	33,30
CTR21	21	10	35	6	66,60	CTR35	35	10	35	6	86,40	CTR49	49	10	35	6	133,30
CTR22	22	10	35	6	66,60	CTR36	36	10	35	6	103,50	CTR50	50	10	35	6	133,30
CTR23	23	10	35	6	66,60	CTR37	37	10	35	6	103,50	CTR55	55	10	35	6	151,30
CTR24	24	10	35	6	66,60	CTR38	38	10	35	6	103,50	CTR60	60	10	35	6	200,10
CTR25	25	10	35	6	66,60	CTR39	39	10	35	6	103,50	CTR65	65	13	60	8	200,10
CTR26	26	10	35	6	76,50	CTR40	40	10	35	6	103,50	CTR70	70	13	60	8	244,65
CTR27	27	10	35	6	76,50	CTR41	41	10	35	6	119,80	CTR75	75	13	60	8	284,50
CTR28	28	10	35	6	76,50	CTR42	42	10	35	6	119,80	CTR80	80	13	60	8	284,50
CTR29	29	10	35	6	76,50	CTR43	43	10	35	6	118,80	CTR85	85	13	60	8	337,10
CTR30	30	10	35	6	76,50	CTR44	44	10	35	6	119,80	CTR90	90	13	60	8	337,10
CTR31	31	10	35	6	86,40	CTR45	45	10	35	6	119,80	CTR95	95	13	60	8	375,90
CTR32	32	10	35	6	86,40	CTR46	46	10	35	6	133,30	CTR100	100	13	60	8	375,90
CTR33	33	10	35	6	86,40	CTR47	47	10	35	6	133,30						



- I** FRESE A TAZZA IN METALLO DURO - SERIE PROFONDA GP CARB - Diametri in pollici
- F** TREPANS MONOBLOC AVEC DENTS EN CARBURE - SERIE PROFONDE - GP CARB - Diametre en pouces
- GB** CARBIDE TIPPED HOLE CUTTERS - LONG SERIES - GP CARB - Inch sizes
- D** HM-TIEFSCHNITTAUSFÜHRUNG HOHLFRÄSER - GP CARB - Zollmaß
- SP** CORONA CON DIENTES DE METAL DURO SERIE LARGA - GP CARB - Diametros en pulgadas

Codice Code Code Typ Ref.	Ø	d1	d2	d3	€	Codice Code Code Typ Ref.	Ø	d1	d2	d3	€	Codice Code Code Typ Ref.	Ø	d1	d2	d3	€
ITCR7/8	7/8	3/8	1-3/8	1/4	66,60	ITCR2	2	3/8	1-3/8	1/4	133,30	ITCR3-1/8	3-1/8	1/2	1-3/8	5/16	284,50
ITCR1	1	3/8	1-3/8	1/4	66,60	ITCR2-1/8	2-1/8	3/8	1-3/8	1/4	151,30	ITCR3-1/4	3-1/4	1/2	1-3/8	5/16	337,10
ITCR1-1/8	1-1/8	3/8	1-3/8	1/4	76,50	ITCR2-1/4	2-1/4	3/8	1-3/8	1/4	151,30	ITCR3-3/8	3-3/8	1/2	1-3/8	5/16	337,10
ITCR1-1/4	1-1/4	3/8	1-3/8	1/4	86,40	ITCR2-3/8	2-3/8	3/8	1-3/8	1/4	200,10	ITCR3-1/2	3-1/2	1/2	1-3/8	5/16	337,10
ITCR1-3/8	1-3/8	3/8	1-3/8	1/4	86,40	ITCR2-1/2	2-1/2	1/2	1-3/8	5/16	200,10	ITCR3-5/8	3-5/8	1/2	1-3/8	5/16	375,90
ITCR1-1/2	1-1/2	3/8	1-3/8	1/4	103,50	ITCR2-5/8	2-5/8	1/2	1-3/8	5/16	200,10	ITCR3-3/4	3-3/4	1/2	1-3/8	5/16	375,90
ITCR1-5/8	1-5/8	3/8	1-3/8	1/4	119,80	ITCR2-3/4	2-3/4	1/2	1-3/8	5/16	244,65	ITCR3-7/8	3-7/8	1/2	1-3/8	5/16	375,90
ITCR1-3/4	1-3/4	3/8	1-3/8	1/4	119,80	ITCR2-7/8	2-7/8	1/2	1-3/8	5/16	284,50	ITCR4	4	1/2	1-3/8	5/16	375,90
ITCR1-7/8	1-7/8	3/8	1-3/8	1/4	133,30	ITCR3	3	1/2	1-3/8	5/16	284,50						



- I** PUNTA DI RICAMBIO PER FRESE A TAZZA IN METALLO DURO
- F** FORETS POUR TREPAN AVEC DENTS CARBURE
- GB** DRILL FOR TCT HOLE CUTTERS
- D** ERSATZBOHRER FÜR HM-LOCHSÄGEN
- SP** BROCA PARA CORONAS CON DIENTES DE METAL DURO



Cod.	Ø	L mm	Tipo/Tipe/Type/Typ/Typo	€
PCT6	6,35	60	GP INTEGRAL Ø 16 - 100	10,20
PCTR6	6,35	80	GP CARB Ø 20 - 60	10,80
PCTR8	8,00	80	GP CARB Ø 65 - 100	12,00

- I** ESPOSITORI FRESE A TAZZA IN METALLO DURO
- F** PRESENTOIRS TREPAN AVEC DENTS CARBURE
- GB** TCT HOLE CUTTERS DISPLAYERS
- D** HM-LOCHSÄGEN AUSSTELLREGALE
- SP** EXPOSITORES CORONAS CON DIENTES DE METAL DURO



Cod. E 10 CT

Ø: 18 - 20 - 22 - 25 - 28 - 30 - 35 - 40 - 45 - 50
 Dim. (mm): 340x140x200
 Peso/Poid/Weight (gr): 2500



€ 564,90

Cod. E 9 CTR

Ø: 20 - 22 - 25 - 28 - 30 - 35 - 40 - 45 - 50
 Dim. (mm): 340x140x200
 Peso/Poid/Weight (gr): 4000



€ 761,30



Cod. E 18 CT

Ø: 17 - 20 - 21 - 22 - 23 - 25 - 26 - 27 - 29 - 30
 32 - 33 - 34 - 35 - 40 - 45 - 50 - 60
 Dim. (mm): 300x230x200
 Peso/Poid/Weight (gr): 4000

€ 1.160,50



Cod. E 17 CTR

Ø: 20 - 21 - 22 - 23 - 25 - 26 - 27 - 29 - 30
 32 - 33 - 34 - 35 - 40 - 45 - 50 - 60
 Dim. (mm): 300x230x200
 Peso/Poid/Weight (gr): 7200

€ 1.436,90



I A richiesta
 S/Demande
 On request

mm.	Pollici Pouces Inch Zoll Pulgadas	Acciaio Acier Steel Stahl Acero	Acciaio Inossidabile Acier INOX Stainless Steel Rostfreien Stahl Acero Inoxidable	Ghisa Fonte Cast Iron Guss Eisen Fundicien	Bronzo Bronze Bronze Bronze Bronze	Alluminio Aluminium Alluminium Aluminium	Plastica Plastique Plastic Plastik Plastica
14	9/16	900	800	900	1000	1200	1000
16	5/8	990	700	800	900	1090	900
17	11/16	940	660	750	840	1030	840
18		880	620	710	800	970	800
19	3/4	840	590	670	750	920	750
20	25/32	800	560	640	720	880	720
21	13/16	760	530	610	680	830	680
22	7/8	720	510	580	650	800	650
23		690	480	550	620	760	620
24	15/16	660	460	530	600	730	600
25	1	640	450	510	570	700	570
26		610	430	490	550	670	550
27	1 1/16	590	410	470	530	650	530
28		570	400	450	510	630	510
29	1 1/8	550	380	440	490	600	490
30	1 3/16	530	370	420	480	580	480
31		510	360	410	460	560	460
32	1 1/4	500	350	400	450	550	450
33	1 5/16	480	340	390	430	530	430
34		470	330	370	420	510	420
35	1 3/8	450	320	360	410	500	410
36		440	310	350	400	490	400
37	1 7/16	430	300	340	390	470	390
38	1 1/2	420	290	340	380	460	380
39		410	290	330	370	450	370
40	1 9/16	400	280	320	360	440	360
41	1 5/8	390	270	310	350	430	350
42		380	270	300	340	420	340
43	1 11/16	370	260	300	330	410	330
44	1 3/4	360	250	290	330	400	330
45		350	250	280	320	390	320
46	1 13/16	350	240	280	310	380	310
47		340	240	270	300	370	300
48	1 7/8	330	230	270	300	360	300
49		320	230	260	290	360	290
50		320	220	250	290	350	290
51	2	310	220	250	280	340	280
52	2 1/16	310	210	240	280	340	280
53		300	210	240	270	330	270
54	2 1/8	290	210	240	270	320	270
55		290	200	230	260	320	260
56		280	200	230	260	310	260
57	2 1/4	280	200	220	250	310	250
58		270	190	220	250	300	250
59		270	190	220	240	300	240
60	2 3/8	270	190	210	240	290	240
61		260	180	210	240	290	240
62		260	180	210	240	280	240
63		250	180	210	230	280	230
64	2 1/2	240	170	200	230	270	230
65	2 9/16	240	170	200	220	270	220
66		240	170	190	210	270	210
67	2 5/8	240	170	190	210	250	210
68	2 11/16	230	160	180	200	250	200
69		230	160	180	200	250	200
70	2 3/4	230	160	180	200	250	200
75	3	210	150	170	190	230	190
80	3 1/8	200	140	160	180	220	180
85	3 3/8	190	130	150	170	210	170
90	3 1/2	180	120	140	160	190	160
95	3 3/4	170	120	130	150	180	150
100	4	160	110	130	140	180	140

I VALORI INDICATIVI DEL NUMERO DI GIRI PER FRESE A TAZZA CON DENTI IN METALLO DURO

F VALEURS INDICATIVES DES NOMBRES DE TOURS MINUTES POUR TREPANS AVEC DENTS EN CARBURE

GB FIXING OF THE NUMBERS OF RPM FOR TCT HOLE CUTTERS

D DREHZAHLRICHTWERTE FÜR HM LOCHSÄGEN

SP NUMERO DES REVOLUCIONES RECOMENDADAS PARA CORONAS CON DIENTES EN METAL DURO

GP
INTEGRAL

GP
CARB

- I** FRESE A TAZZA PER IL LEGNO GP HOLZ
- F** TREPAN POUR BOIS GP HOLZ
- GB** TCT HOLE SAWS FOR WOOD GP HOLZ
- D** LOCHSÄGEN FÜR HOLZ GP HOLZ
- SP** CORONAS PARA MADERA GP HOLZ



- I** Le frese a tazza GP HOLZ sono costruite in acciaio su cui sono saldobrasati denti in metallo duro con affilatura che consente la foratura di materiali quali LEGNO, TRUCCiolATO, CARTOGESSO, MATERIALI COMPOSITI. Disponibili dal diam. 22 al 100 sono vendute complete di gambo e punta.
- F** Les trépan GP HOLZ avec dents en carbure sont recommandés pour le BOIS, AGGLOMERAT, PLACOPLATRE. Disponibles du diam. 22 au 100 mm sont vendues complet de queue et foret.
- GB** Tungsten Carbide Tipped Hole Saw are designed with carbide teeth, perfect for WOOD, PLASTER and CARDBOARD. Its construction is suitable for both hand-held and machine drill operations. Available from diam. 22 to 100 mm they are sold with shank and pilot drills.
- D** Die GP HOLZ Lochsäge mit Hartmetall-Schneide ideal für Elektriker, Sanitarinstallateure, Heizungsbauer, Bau- und Möbelschreiner, Kuchen-studios, Heimwerker. Einsatz: Bohrmaschinen mit Sechskant-Schaft.
- SP** Las coronas para madera GP HOLZ, fabricada con dientes en metal duro, esta concebida para cortar MADERA, PLASTICO. Disponible de diam. 22 hasta 100 con mango cilindrico.

- I** FRESE A TAZZA PER IL LEGNO GP HOLZ - Complete di gambo cilindrico e punta
- F** TREPAN POUR BOIS GP HOLZ - Avec queue cylindrique et foret pilot
- GB** TCT HOLE SAWS FOR WOOD GP HOLZ - With cylindrical shank and pilot drill
- D** LOCHSÄGEN FÜR HOLZ GP HOLZ - Mit Zylindrischem-Schaft und Zentrierbohrer
- SP** CORONAS PARA MADERA GP HOLZ - Con mango cilíndrico y broca pilota



Codice Code Art. Ref.	Ø mm	Ø Pollici Ø Pouces Ø Inches Ø Zollmaß Ø Fulgadas	h. mm.	€	Codice Code Art. Ref.	Ø mm	Ø Pollici Ø Pouces Ø Inches Ø Zollmaß Ø Fulgadas	h. mm.	€
TB25	25	1	55	77,00	TB60	60	2-3/8	55	124,80
TB27	27	1-1/16	55	77,00	TB64	64	2-1/2	55	134,30
TB29	29	1-1/8	55	77,00	TB65	65	2-9/16	55	134,30
TB30	30	1-3/16	55	77,00	TB67	67	2-5/8	55	136,90
TB32	32	1-1/4	55	82,20	TB70	70	2-3/4	55	136,90
TB35	35	1-3/8	55	82,20	TB73	73	2-7/8	55	150,20
TB38	38	1-1/2	55	86,60	TB76	76	3	55	155,90
TB40	40	1-9/16	55	86,60	TB79	79	3-1/8	55	158,70
TB41	41	1-5/8	55	93,20	TB80	80		55	158,70
TB44	44	1-3/4	55	104,20	TB83	83	3-1/4	55	173,80
TB45	45		55	104,20	TB86	86	3-3/8	55	173,80
TB48	48	1-7/8	55	109,10	TB89	89	3-1/2	55	176,80
TB50	50	2	55	110,50	TB90	90		55	176,80
TB54	54	2-1/8	55	112,30	TB95	95	3-3/4	55	180,10
TB57	57	2-1/4	55	124,80	TB100	100	4	55	197,70



- I** ESPOSITORE FRESE A TAZZA PER IL LEGNO
- F** PRESENTOIR TREPAN POUR BOIS
- GB** TCT HOLE SAWS FOR WOOD
- D** LOCHSÄGEN FÜR HOLZ AUSSTELLREGALE
- SP** EXPOSITORE DE CORONAS PARA MADERA

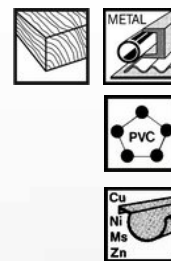


Cod. E9TB

Art: TB25/TB27/TB30/TB35/TB40/TB45/TB50/
TB60/TB65

€ 873,60

- I** SEGHE A TAZZA BIMETALLICHE IN HSS/M3 - GP METAL
- F** SCIES CLOCHE BIMETAL EN HSS/M3 - GP METAL
- GB** HSS/M3 BIMETAL HOLE SAWS - GP METAL
- D** HSS/M3 BIMETALL LOCHSÄGEN GP METAL
- SP** CORONAS BIMETALICAS HSS/M3 - GP METAL



- I** Le seghe a tazza bimetalliche GP METAL risultano le più adatte per forare GHISA, LEGNO, MATERIE PLASTICHE fino a 28 mm di spessore e LAMIERINI SOTTILI. La dentatura a passo variabile permette un taglio più uniforme e una più lunga durata della sega a tazza.
- F** Les scies-cloches bimétal GP METAL sont les plus adaptées pour percer la fonte, le bois, les matières plastiques jusqu'à 28 mm de profondeur et pour tôle mince. La denture à pas variable réduit l'effort de coupe et assure une meilleure finition du travail.
- GB** The Bimetal Holes saw GP METAL are ideal for boring CAST IRON, WOOD, PLASTIC MATERIAL up to 28 mm and for SOFT STEEL. 4/6 variable teeth.
- D** HSS-BIMETALL Lochsägen "GP METAL" sind geeignet für GÜßHEISEN, HOLZ, KUNSTSTOFF, bis 28 mm. Dicke und Bekleidungsblech. Die HSS-Bimetal Lochsägen "GP METAL" haben Kombi-Zahnung, das heißt: verminderter Kraftaufwand, 30% höhere Schnittleistung im Vergleich zu den klassischen Lochsägen, bedeutende Verringerung der Vibration beim Schneiden, verringerter Lärm, längere Lebensdauer.
- SP** Coronas perforadoras en acero rapido (M3). 4/6 diente variable y angulo positivo de corte. Las coronas GP METAL son idóneas para perforar el ACERO DULCE, FUNDICION, MADERA, MATERIALES PLASTICOS hasta 28 mm de profundidad.

Codice Code Code Art. Ref.	ø mm	ø Pollici ø Pouces ø Zollmaß ø Fulgadas	Filetto Filet Thread Gewinde Rosca	€
B 14	14	9/16	1/2" - 20	6,05
B 16	16	5/8	1/2" - 20	6,05
B 17	17	11/16	1/2" - 20	6,40
B 19	19	3/4	1/2" - 20	6,40
B 20	20	25/32	1/2" - 20	6,40
B 21	21	13/16	1/2" - 20	6,50
B 22	22	7/8	1/2" - 20	6,70
B 24	24	15/16	1/2" - 20	7,40
B 25	25	1	1/2" - 20	7,60
B 26	26	1 1/32	1/2" - 20	7,70
B 27	27	1 1/16	1/2" - 20	7,80
B 28	28	1 1/32	1/2" - 20	7,90
B 29	29	1 1/8	1/2" - 20	8,40
B 30	30	1 3/16	5/8" - 18	8,90
B 32	32	1 1/4	5/8" - 18	9,00
B 33	33	1 5/16	5/8" - 18	9,50
B 35	35	1 3/8	5/8" - 18	9,80
B 37	37	1 7/16	5/8" - 18	10,30
B 38	38	1 1/2	5/8" - 18	10,30
B 40	40	1 9/16	5/8" - 18	10,80
B 41	41	1 5/8	5/8" - 18	10,90
B 43	43	1 11/16	5/8" - 18	11,50
B 44	44	1 3/4	5/8" - 18	11,70
B 46	46	1 13/16	5/8" - 18	11,70
B 48	48	1 7/8	5/8" - 18	11,90
B 51	51	2	5/8" - 18	12,20
B 52	52	2 1/16	5/8" - 18	12,70
B 54	54	2 1/8	5/8" - 18	12,80
B 56	56	2 3/16	5/8" - 18	13,20
B 57	57	2 1/4	5/8" - 18	13,40
B 59	59	2 5/16	5/8" - 18	13,80
B 60	60	2 3/8	5/8" - 18	14,10
B 62	62	2 7/16	5/8" - 18	14,80
B 64	64	2 1/2	5/8" - 18	15,80
B 65	65	2 9/16	5/8" - 18	15,90
B 67	67	2 5/8	5/8" - 18	16,10
B 68	68	2 11/16	5/8" - 18	16,70
B 68,5	68,5	2 45/64	5/8" - 18	17,10
B 70	70	2 3/4	5/8" - 18	18,00
B 73	73	2 7/8	5/8" - 18	18,30
B 76	76	3	5/8" - 18	18,40
B 79	79	3 1/8	5/8" - 18	18,80
B 83	83	3 1/4	5/8" - 18	20,60
B 86	86	3 3/8	5/8" - 18	21,20
B 89	89	3 1/2	5/8" - 18	22,00
B 92	92	3 5/8	5/8" - 18	23,00
B 95	95	3 3/4	5/8" - 18	24,00
B 98	98	3 7/8	5/8" - 18	24,90
B 102	102	4	5/8" - 18	25,60
B 105	105	4 1/8	5/8" - 18	26,90
B 108	108	4 1/4	5/8" - 18	27,60
B 111	111	4 3/8	5/8" - 18	28,20
B 114	114	4 1/2	5/8" - 18	28,70
B 121	121	4 3/4	5/8" - 18	29,80
B 127	127	5	5/8" - 18	34,60
B 133	133	5 1/16	5/8" - 18	35,80
B 140	140	5 1/2	5/8" - 18	36,90
B 146	146	5 3/4	5/8" - 18	38,40
B 152	152	6	5/8" - 18	46,40
B 160	160	6 5/16	5/8" - 18	59,50
B 168	168	6 5/8	5/8" - 18	63,20
B 177	177	6 31/32	5/8" - 18	66,80
B 200	200	7 7/8	5/8" - 18	72,80
B 210	210	8 9/32	5/8" - 18	91,00
B 233	233	9 3/16	5/8" - 18	97,10
B 250	250	10	5/8" - 18	103,20

- I** SEGHE A TAZZA BIMETALLICHE HSS-M3
- F** SCIES CLOCHES BIMETAL HSS-M3
- GB** HSS-M3 BIMETAL HOLE SAWS
- D** HSS-M3 BIMETAL LOCHSÄGEN
- SP** CORONAS BIMETALICAS HSS-M3



- I** ESPOSITORE MURALE SEGHE A TAZZA BIMETALLICHE IN HSS/M3 - GP METAL
- F** PRESENTOIR MURAL DE SCIES CLOCHES BIMETAL EN HSS/M3 - GP METAL
- GB** HSS/M3 BIMETAL HOLE SAWS WALL DISPLAYER - GP METAL
- D** HSS/M3 BIMETAL LOCHSÄGEN AUSSTELREGALE ZU HÄNGEN - GP METAL
- SP** EXPOSITORE PARA PARED DE CORONAS BIMETALICAS HSS/M3 - GP METAL



Cod. E 25 B

Composizione/Composition/Composizione:

ø 16 - 19 - 22 - 25 - 29 - 32 - 38 - 41 - 43 - 44 - 48 - 51 - 54
- 57 - 60 - 65 - 67 - 70 - 76 - 89 - 92 - 95 - 102 - 105 - 114

1 GBP: gambo/queue/shank ø 14-30

1 GBM: gambo/queue/shank ø 37-152

2 GBS: gambo/queue/shank ø 32-152

1 PB: punta/foret/drill ø 6,35x75

1 PBS: punta/foret/drill ø 6,35x104

Dim. (mm): 500x700x70

Peso/Poid/Weight (gr): 5000

€ 409,10

- I** ESPOSITORE SEGHE A TAZZA BIMETALLICHE
- F** PRESENTOIR SCIES CLOCHES BIMETAL
- GB** BIMETAL HOLE SAWS DISPLAYER
- D** AUSSTELREGAL FÜR BIMETALL LOCHSÄGEN
- SP** EXPOSITORE CORONAS BIMETALICAS



Cod. E 29 B

Composizione/Composition/Composizione:

2x: ø 17 - 19 - 20 - 21 - 22 - 25 - 27

1x: ø 29 - 30 - 32 - 33 - 35 - 40 - 51 - 60 - 65

1 GBP: gambo/queue/shank ø 14-30

1 GBM: gambo/queue/shank ø 37-152

2 GBS: gambo/queue/shank ø 32-152

Dim. (mm): 410x220x160

Peso/Poid/Weight (gr): 4500

€ 264,20

I A richiesta
S/Demande
On request

- I** VALIGETTE SEGHE A TAZZA BIMETALLICHE IN HSS/M3 - GP METAL
- F** COMPOSITIONS SCIES CLOCHES BIMETAL EN HSS/M3 - GP METAL
- GB** HSS/M3 BIMETAL HOLE SAWS CARRYING CASE - GP METAL
- D** HSS/M3 BIMETALL LOCHSÄGENKOFFER - GP METAL
- SP** JUEGOS DE CORONAS BIMETALICAS HSS/M3 - GP METAL



- I** COMPOSIZIONE DIAMETRI PER IDRAULICI
- F** COMPOSITION DIAMETRES POUR PLOMBIERS
- GB** PLUMBERS DIAMETERS KIT
- D** ZUSAMMENSETZUNG DER DURCHMESSER FÜR KLEMPNER
- SP** JUEGO PARA FONTANEROS

Cod. CV6BM - € 89,60

Ø: 19 - 22 - 29 - 38 - 44 - 57 + 1 GBP + GBS + RB

- COMPOSIZIONE DIAMETRI PER ELETTRICISTI **I**
- COMPOSITION DIAMETRES POUR ELECTRICIENS **F**
- ELECTRICIANS DIAMETERS KIT **GB**
- ZUSAMMENSETZUNG DER DURCHMESSER FÜR ELEKTRIKER **D**
- JUEGO PARA ELECTRICISTAS **SP**

Cod. CV6BMEL - € 94,10

Ø: 22 - 29 - 35 - 44 - 51 - 67 + 1 GBP + 1 GBS



- I** COMPOSIZIONE DIAMETRI PER INSTALLATORI
- F** COMPOSITION DIAMETRES POUR MONTEURS-INSTALLATEURS
- GB** MAINTENANCE DIAMETERS KIT
- D** ZUSAMMENSETZUNG DER DURCHMESSER FÜR ISTALLATEURE
- SP** JUEGO PARA INSTALADORES

Cod. CV9BM - € 124,60

Ø: 19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 67 + 1 GBP + GBS



- COMPOSIZIONE DIAMETRI MANUTENZIONE INDUSTRIALE **I**
- COMPOSITION DIAMETRES MAINTENANCE INDUSTRIELLE **F**
- INDUSTRIAL MAINTENANCE KIT **GB**
- ZUSAMMENSETZUNG DER DURCHMESSER FÜR DIE INDUSTRIELLE UNTERHALTUNG **D**
- JUEGO PARA MANTENIMIENTO INDUSTRIAL **SP**

Cod. CV12BM - € 151,90

Ø: 19 - 22 - 25 - 32 - 35 - 38 - 44 - 51 - 57 - 67 - 76
+ 1 GBS + 1 GBP



- I** ACCESSORI PER SEGHE A TAZZA BIMETALLICHE IN HSS/M3 - GP METAL
- F** ACCESSOIRES POUR SCIES CLOCHES BIMETAL EN HSS/M3 - GP METAL
- GB** HSS/M3 BIMETAL HOLE SAWS SPARE PARTS - GP METAL
- D** HSS/M3 ZÜBEHORTEILE FÜR BIMETALL LOCHSÄGEN - GP METAL
- SP** HUSILLOS PARA CORONAS BIMETÁLICAS HSS/M3 - GP METAL



Diam.		14-30	14-30	32-152	32-250	32-250	32-250	14-250	14-250	14-250
Diam.		3/8	1/4	3/8	3/8	12,7 (1/2")	SDS PLUS	6,35X75	6,35X104	-
Cod.		GBP	GBN	GBM	GBS/10	GBS/12	GBSP	PB	PBS	MB
€		5,90	5,80	5,90	11,60	12,80	15,00	4,10	4,60	1,60

- I** SEGHE A TAZZA BIMETALLICHE IN HSS/M42 - GP COBALT
- F** SCIES CLOCHE BIMETAL EN HSS/M42 - GP COBALT
- GB** HSS/M42 BIMETAL HOLE SAWS - GP COBALT
- D** HSS/M42 BIMETALL LOCHSÄGEN - GP COBALT
- SP** CORONAS BIMETALICAS HSS/M42 - GP COBALT



I Le seghe a tazza bimetalliche GP COBALT sono costruite con l'utilizzo di lama bimetallica in HSS M42 all'8% di cobalto. Risultano quindi più adatte alla foratura di materiali quali acciai inossidabili, dove le normali seghe bimetalliche in HSS M3 presentano difficoltà. La particolare geometria del dente unita all'elevata qualità del materiale utilizzato, fa di questo utensile una valida alternativa alle comuni seghe a tazza in commercio soprattutto in considerazione dell'indiscutibile rapporto qualità/prezzo.

F Les scies-cloches bimétal GP COBALT sont fabriquées avec l'utilisation de ruban bimétal en HSS M42 avec 8% de cobalt. Elle sont plus adaptées pour le perçage de matériaux tels que les aciers inoxydables, ou en temps normal les scies cloches bimétal en HSS M3 ont des difficultés. La particularité géométrie des dents et la grande qualité du ruban utilisée pour sa fabrication, permet à cet outil d'être considéré comme une véritable alternative aux scies cloches traditionnelles, surtout en considération du grand rapport qualité/prix.

GB The Bimetal Hole Saws GP COBALT are made with high quality saw blade in HSS M42 with 8% of cobalt. They are ideal for boring material as stainless steel, where the common HSS M3 Bimetal Hole saws, have many difficulties. The high performance geometry of the teeth and the high quality of the saw blade, make of this tools the best alternative to the normal Hole saws in consideration of the good relation quality/price.

D Die HSS M42 Bimetall Lochsägen - GP COBALT sind mit einem bimetalen Sägeblatt aus HSS M42 (8% von Kobalt) gebaut. Sie sind geeignet für Materialien wie rostfreie Stahl, wo die andere bimetal Lochsägen aus HSS M3 Schwierigkeiten haben. Die besondere Geometrie des Zahns mit der hohen Qualität des benutzten Materials macht dieser Werkzeug eine gute Wechsel zu die andere Lochsägen, die im Handel sind. Sie haben eine unbestreitbare Preis/Qualität.

SP La corona bimetal GP COBALT esta fabricada sobre la base de la cinta bimetalica en HSS M42 con el 8% de cobalto. Asi pues, resulta la mas aconsejable para trabajar con materiales donde la corona de HSS M42 presentan dificultades, como el acero inoxidable.

La particular geometria del diente, junto con la elevada calidad de su materia prima, hace de esta herramienta una alternativa muy valida para su venta en comercio teniendo en cuenta su relacion calidad-precio.

- I** SEGHE A TAZZA BIMETALLICHE IN HSS/M42 - GP COBALT
- F** SCIES CLOCHES BIMETAL EN HSS/M42 - GP COBALT
- GB** HSS/M42 BIMETAL HOLE SAWS - GP COBALT
- D** HSS/M42 BIMETAL LOCHSÄGEN - GP COBALT
- SP** CORONAS BIMETALICAS EN HSS/M42 - GP COBALT



Codice Code Code Art. Ref.	Ø mm	Ø Pollici Ø Pouces Ø Inches Ø Zollmaß Ø Fulgadas	Filetto Filet Thread Gewinde Rosca	€	Codice Code Code Art. Ref.	Ø mm	Ø Pollici Ø Pouces Ø Inches Ø Zollmaß Ø Fulgadas	Filetto Filet Thread Gewinde Rosca	€
BH 14	14	9/16	1/2" - 20	9,80	BH 67	67	2 5/8	5/8" - 18	25,00
BH 16	16	5/8	1/2" - 20	9,80	BH 68	68	2 11/16	5/8" - 18	25,30
BH 17	17	11/16	1/2" - 20	9,90	BH 70	70	2 3/4	5/8" - 18	26,00
BH 19	19	3/4	1/2" - 20	9,90	BH 73	73	2 7/8	5/8" - 18	28,80
BH 20	20	25/32	1/2" - 20	9,90	BH 76	76	3	5/8" - 18	27,40
BH 21	21	13/16	1/2" - 20	9,90	BH 79	79	3 1/8	5/8" - 18	28,00
BH 22	22	7/8	1/2" - 20	10,20	BH 83	83	3 1/4	5/8" - 18	28,50
BH 24	24	15/16	1/2" - 20	10,50	BH 86	86	3 3/8	5/8" - 18	30,40
BH 25	25	1	1/2" - 20	11,90	BH 89	89	3 1/2	5/8" - 18	30,50
BH 27	27	1 1/16	1/2" - 20	13,20	BH 92	92	3 5/8	5/8" - 18	32,40
BH 28	28	1 3/32	1/2" - 20	13,70	BH 95	95	3 3/4	5/8" - 18	33,30
BH 29	29	1 1/8	1/2" - 20	14,10	BH 98	98	3 7/8	5/8" - 18	35,60
BH 30	30	1 3/16	1/2" - 20	14,80	BH 102	102	4	5/8" - 18	36,70
BH 32	32	1 1/4	5/8" - 18	15,10	BH 105	105	4 1/8	5/8" - 18	38,90
BH 33	33	1 5/16	5/8" - 18	15,10	BH 108	108	4 1/4	5/8" - 18	40,80
BH 35	35	1 3/8	5/8" - 18	15,20	BH 111	111	4 3/8	5/8" - 18	42,30
BH 37	37	1 7/16	5/8" - 18	16,00	BH 114	114	4 1/2	5/8" - 18	43,00
BH 38	38	1 1/2	5/8" - 18	16,10	BH 121	121	4 3/4	5/8" - 18	45,10
BH 40	40	1 9/16	5/8" - 18	17,00	BH 127	127	5	5/8" - 18	49,00
BH 41	41	1 5/8	5/8" - 18	17,20	BH 133	133	5 1/4	5/8" - 18	51,10
BH 43	43	1 11/16	5/8" - 18	18,00	BH 140	140	5 1/2	5/8" - 18	52,90
BH 44	44	1 3/4	5/8" - 18	18,20	BH 146	146	5 3/4	5/8" - 18	55,40
BH 46	46	1 13/16	5/8" - 18	18,50	BH 152	152	6	5/8" - 18	57,00
BH 48	48	1 7/8	5/8" - 18	18,80	BH 160	160	6 5/16	5/8" - 18	68,00
BH 51	51	2	5/8" - 18	19,10	BH 165	165	6 9/16	5/8" - 18	68,00
BH 52	52	2 1/16	5/8" - 18	20,00	BH 168	168	6 5/8	5/8" - 18	72,50
BH 54	54	2 1/8	5/8" - 18	20,20	BH 177	177	6 31/32	5/8" - 18	75,40
BH 57	57	2 1/4	5/8" - 18	20,80	BH 200	200	7 7/8	5/8" - 18	86,10
BH 60	60	2 3/8	5/8" - 18	21,90	BH 210	210	8 9/32	5/8" - 18	102,80
BH 64	64	2 1/2	5/8" - 18	22,20	BH 233	233	9 3/16	5/8" - 18	108,60
BH 65	65	2 9/16	5/8" - 18	25,00	BH 250	250	10	5/8" - 18	120,80

- I** ESPOSITORE MURALE SEGHE A TAZZA BIMETALLICHE HSS/M42 - GP COBALT
- F** PRESENTOIR MURAL DE SCIES CLOCHES BIMETAL HSS/M42 - GP COBALT
- GB** HSS/M42 GP COBALT BIMETAL HOLE SAWS WALL DISPLAYER
- D** HSS/M42 GP COBALT BIMETAL LOCHSÄGEN AUSSTELREGALE ZU HÄNGEN
- SP** EXPOSITORE PARA PARED DE CORONAS BIMETALICAS HSS/M42 - GP COBALT



GP
COBALT

Cod. E 25 BH

Composizione/Composition/Composizione:

ø 16 - 19 - 22 - 25 - 29 - 32 - 38 - 41 - 43 - 44 - 48 - 51 - 54
- 57 - 60 - 65 - 67 - 70 - 76 - 89 - 92 - 95 - 102 - 105 - 114

1 GBP: gambo/queue/shank ø 14-30

1 GBM: gambo/queue/shank ø 37-152

2 GBS: gambo/queue/shank ø 32-152

1 PBC: punta/foret/drill ø 6,35x75 - HSS/E

1 PBSC: punta/foret/drill ø 6,35x104 - HSS/E

Dim. (mm): 500x700x70

Peso/Poid/Weight (gr): 5000

€ 495,90

- I** ESPOSITORE SEGHE A TAZZA BIMETALLICHE HSS/M42
- F** PRESENTOIR SCIES CLOCHES BIMETAL HSS/M42
- GB** HSS/M42 BIMETAL HOLE SAWS DISPLAYER
- D** AUSSTELREGAL FÜR HSS/M42 BIMETALL LOCHSÄGEN
- SP** EXPOSITORE CORONAS BIMETALICAS HSS/M42



GP
COBALT

Cod. E 29 BH

Composizione/Composition/Composizione:

2x: ø 17 - 19 - 20 - 21 - 22 - 25 - 27

1x: ø 29 - 30 - 32 - 33 - 35 - 40 - 51 - 60 - 65

1 GBP: gambo/queue/shank ø 14-30

1 GBM: gambo/queue/shank ø 37-152

2 GBS: gambo/queue/shank ø 32-152

Dim. (mm): 410x220x160

Peso/Poid/Weight (gr): 4500

€ 295,30

- I** VALIGETTE SEGHE A TAZZA BIMETALLICHE IN HSS/M42 - GP METAL
- F** COMPOSITIONS SCIES CLOCHES BIMETAL EN HSS/M42 - GP METAL
- GB** HSS/M42 BIMETAL HOLE SAWS CARRYING CASE - GP METAL
- D** HSS/M42 BIMETALL LOCHSÄGENKOFFER - GP METAL
- SP** JUEGOS DE CORONAS BIMETALICAS HSS/M42 - GP METAL



- I** COMPOSIZIONE DIAMETRI PER IDRAULICI
- F** COMPOSITION DIAMETRES POUR PLOMBIERS
- GB** PLUMBERS DIAMETERS KIT
- D** ZUSAMMENSETZUNG DER DURCHMESSER FÜR KLEMPNER
- SP** JUEGO PARA FONTANEROS

Cod. CV6BH - € 115,60

Ø: 19 - 22 - 29 - 38 - 44 - 57 + 1 GBPC + GBSC/10

- COMPOSIZIONE DIAMETRI PER ELETTRICISTI **I**
- COMPOSITION DIAMETRES POUR ELECTRICIENS **F**
- ELECTRICIANS DIAMETERS KIT **GB**
- ZUSAMMENSETZUNG DER DURCHMESSER FÜR ELEKTRIKER **D**
- JUEGO PARA ELECTRICISTAS **SP**

Cod. CV6BHEL - € 118,20

Ø: 22 - 29 - 35 - 44 - 51 - 64 + 1 GBPC + GBSC/10



- I** COMPOSIZIONE DIAMETRI PER INSTALLATORI
- F** COMPOSITION DIAMETRES POUR MONTEURS-INSTALLATEURS
- GB** MAINTENANCE DIAMETERS KIT
- D** ZUSAMMENSETZUNG DER DURCHMESSER FÜR ISTALLATEURE
- SP** JUEGO PARA INSTALADORES

Cod. CV9BM - € 174,00

Ø: 19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64 + 1 GBPC + GBSC/10



- COMPOSIZIONE DIAMETRI MANUTENZIONE INDUSTRIALE **I**
- COMPOSITION DIAMETRES MAINTENANCE INDUSTRIELLE **F**
- INDUSTRIAL MAINTENANCE KIT **GB**
- ZUSAMMENSETZUNG DER DURCHMESSER FÜR DIE INDUSTRIELLE UNTERHALTUNG **D**
- JUEGO PARA MANTENIMIENTO INDUSTRIAL **SP**

Cod. CV12BM - € 184,90

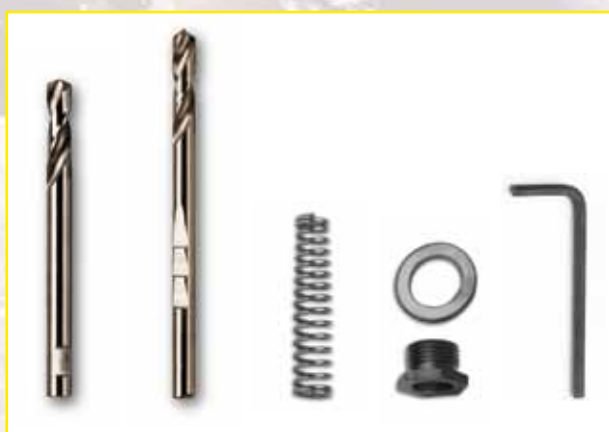
Ø: 19 - 22 - 25 - 32 - 35 - 38 - 44 - 51 - 57 - 64 - 76
1 GBPC + GBSC/10



- I** ACCESSORI PER SEGHE A TAZZA BIMETALLICHE IN HSS/M42 - GP COBALT
- F** ACCESSOIRES POUR SCIES CLOCHES BIMETAL EN HSS/M42 - GP COBALT
- GB** HSS/M42 BIMETAL HOLE SAWS SPARE PARTS HSS/M42 - GP COBALT
- D** ZÜBEHORTEILE FÜR HSS/M42 BIMETALL LOCHSÄGEN - GP COBALT
- SP** HUSILLOS PARA CORONAS BIMETÁLICAS HSS/M42 - GP COBALT



Diam.		14-30	32-152	14-30	32-250	32-250
Diam.		9,5 (3/8")	9,5 (3/8")	6,35 (1/4")	9,5 (3/8")	12,7 (1/2")
Cod.		GBPC	GBMC	GBNC	GBSC/10	GBSC/12
€		10,30	10,30	10,30	16,20	17,70



HSS/Co₂

Diam.		14-250	14-250	14-250	-	-
Diam.		6,35X75	6,35X104	-	-	-
Cod.		PBC	PBSC	MB	RB	CB
€		8,10	9,10	1,60	2,00	2,50



Nous fabriquons scies cloche avec lame bimetal d'haute qualitee de provenance europeen.

Diametre Maximum: 350 mm
Hauteur Maximum: 100 mm

Attaches speciaux sur demande.

Wir bauen bimetal Lochsaegen nur von hoher Qualitaet und von europaeischem und bescheinigtem Ursprung.

Diameter max: 350 mm
Hoehe max: 100 mm

Spezielle Befestigung zu Anfrage.

Costruiamo seghe a tazza con lama bimetallica di altissima qualita di provenienza europea certificata.

Diametro Massimo: 350 mm
Altezza Massima: 100 mm

A richiesta attacchi speciali sul fondo fresa.

We make Hole saws high quality European saw blade.

Maximum diameter: 350 mm
Maximum depth: 100 mm

Special attachment on requirement.

Fabricacion especial de coronas bimetálicas con sierra de cinta bimetal de extrema durabilidad.

Diametro max: 350 mm
Altura max: 100 mm

Base special baho demanda.