

2022

2R Utensili s.r.l.



CATALOGO FRESE END MILLS CATALOGUE



INDICE INDEX

		N° denti Z	Acciaio Steel	HRC 44-45	HRC 50-60	HRC 60-65	Ghisa Cast Iron	Alluminio Alumi-	Plastica - Rame Plastic - Copper	Inox	Inconel Titanio Inconel Titanium	Pagina Page
F200		2	✓	✓	✓	✓						F200
F201		2	✓				✓	✓	✓			F201
F207		2	✓				✓	✓	✓			F207
F208		2	✓				✓	✓	✓			F208
F209		2	✓				✓	✓	✓			F209
F211		2						✓	✓			F211
F213		2	✓				✓	✓	✓	✓	✓	F213
F214		2	✓				✓	✓	✓	✓	✓	F214
F216		2	✓	✓	✓	✓						F216
F217		2	✓				✓	✓	✓			F217
F218		2	✓				✓	✓	✓			F218
F219		2	✓				✓	✓	✓			F219
F221		2	✓	✓	✓	✓					✓	F221
F222		2	✓				✓	✓	✓			F222
F223		2	✓				✓	✓	✓			F223
F224		2	✓				✓	✓	✓			F224



INDICE

		N° denti Z	Acciaio Steel	HRC 44-45	HRC 50-60	HRC 60-65	Ghisa Cast Iron	Alluminio Aluminium	Plastica - Rame Plastic - Copper	Inox	Inconel Titanio Inconel Titanium	Pagina Page
F226		2	✓	✓	✓	✓	✓			✓	✓	F226
F227		2	✓	✓	✓	✓						F227
F228		2						✓				F228
F230		2	✓	✓			✓	✓	✓			F230
F300		3						✓	✓			F300
F301		3						✓				F301
F302		3						✓				F302
F303		3						✓				F303
F304		3						✓				F304
F305		3						✓				F305
F307		3	✓				✓	✓	✓			F307
F308		3	✓				✓	✓	✓			F308
F310		3	✓				✓	✓	✓			F310
F312		3	✓				✓	✓	✓			F312
F313		3	✓							✓	✓	F313
F315		3	✓	✓	✓	✓					✓	F315
F316		3	✓	✓	✓	✓					✓	F316
F400		4	✓	✓	✓	✓						F400

INDEX



		N° denti Z	Acciaio Steel	HRC 44-45	HRC 50-60	HRC 60-65	Ghisa Cast Iron	Alluminio Aluminium	Plastica - Rame Plastic - Copper	Inox	Inconel Titanio Inconel Titanium	Pagina Page
F401		4	✓	✓	✓	✓		✓				F401
F405		4						✓				F405
F407		4	✓				✓	✓				F407
F409		4	✓				✓	✓				F409
F410		4	✓				✓	✓	✓			F410
F411		4	✓				✓	✓	✓			F411
F412		4	✓	✓	✓	✓	✓	✓	✓			F412
F413		4	✓				✓	✓	✓			F413
F414		4	✓				✓	✓	✓	✓	✓	F414
F415		4	✓				✓	✓	✓	✓	✓	F415
F416		4	✓				✓	✓	✓			F416
F418		4	✓				✓	✓	✓			F418
F419		4	✓				✓	✓	✓			F419
F420		4	✓				✓	✓	✓	✓	✓	F420
F421		4	✓				✓	✓	✓			F421
F423		4	✓	✓	✓	✓	✓	✓	✓			F423
F424		4	✓	✓	✓	✓	✓			✓		F424
F425		4	✓	✓	✓	✓	✓			✓		F425



INDICE

		N° denti Z	Acciaio Steel	HRC 44-45	HRC 50-60	HRC 60-65	Ghisa Cast Iron	Alluminio Aluminium	Plastica - Rame Plastic - Copper	Inox	Inconel Titanium Inconel Titanium	Pagina Page
F426		4	✓	✓	✓	✓				✓		F426
F427		4	✓				✓	✓	✓			F427
F428		4	✓				✓	✓	✓			F428
F429		4/6	✓				✓	✓	✓			F429
F430		4/6	✓				✓	✓	✓			F430
F433		4	✓				✓	✓	✓	✓	✓	F433
F434		4	✓	✓	✓	✓	✓	✓	✓		✓	F434
F600		6						✓	✓			F600
F601		6	✓				✓	✓	✓			F601
F602		6	✓				✓	✓	✓			F602
F603		6	✓	✓	✓	✓	✓			✓		F603
F604		6	✓	✓	✓	✓	✓			✓		F604
F605		6	✓	✓	✓	✓	✓			✓		F605
FT330L		3	✓	✓			✓	✓	✓	✓	✓	FT330L
FT330N		3	✓	✓			✓	✓	✓	✓	✓	FT330N
FEPP		4	✓	✓	✓	✓	✓			✓	✓	FEPP
SM45		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	SM45

INDEX



INDICE ICONE ICONS INDEX

ALTIN	ALTIN	TIALCN	TIALCN
naco	NACO	VAROCON	VAROCON
RBW	RBW	ZrN	ZRN
TIALN	TIALN		

ALU	ALLUMINIO ALUMINIUM	MAT. PLASTICI	METERIALE PLASTICO PLASTIC MATERIAL
A SECCO	A SECCO DRY PROCESSING	NE	LEGHE NON FERROSE NON FERROUS ALLOYS
GG	GHISE CAST IRON	RAME	RAME COPPER
INCONEL TITAN	INCONEL TITANIO INCONEL TITANIUM	Universal	UNIVERSALE UNIVERSAL
INOX	INOX INOX	ACCIAI < 900 N/mm	ACCIAI < 1400 N/mm
LAPPATE	GOLE LAPPATE POLISHED FLUTES		ACCIAI STEELS

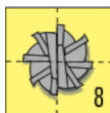
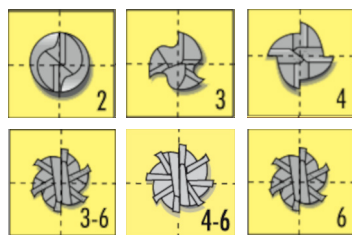
HRC 45	HRC 60	HRC 65	HRC 70	HRC
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HPC	AD ELEVATE PRESTAZIONI DI TAGLIO HIGH PERFORMANCE CUTTING
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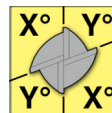
HSC	AD ALTA VELOCITÀ HIGH SPEED CUTTING
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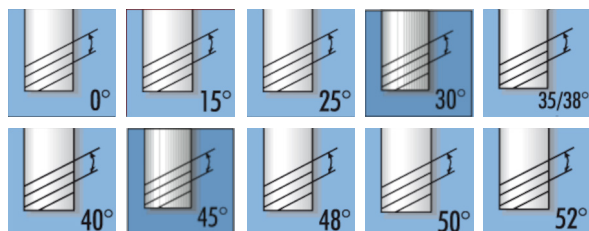
INDICE ICONE ICONS INDEX



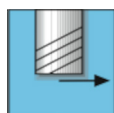
N° ELICHE
FLUTES N°



PASSO VARIABILE
TEETH WITH DIFFERENT ANGLES



ANGOLO ELICA
SPIRAL ANGLE



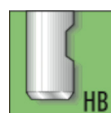
DIREZIONE LAVORO
FEED DIRECTION



SMUSSO O RAGGIO
CHAMFER OR RADIUS

**SERIE
EXTRA
LUNGA**

TIPO EXTRA LUNGO
EXTRA LONG TYPE



TIPO DI ATTACCO
SHANK TYPE

**SERIE
LUNGA**

TIPO LUNGO
LONG TYPE



CON FORI DI LUBRIFICAZIONE
WITH COOLANT HOLE

**SERIE
CORTA**

TIPO CORTO
SHORT TYPE



FRESE IN METALLO DURO RAGGIATE A 2 TAGLI SOLID CARBIDE BALL NOSE END MILLS LONG, 2 FLUTES



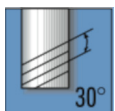
ALTIN

A
SECCO

LAPPATE

ACCIAI
< 1400 N/mm

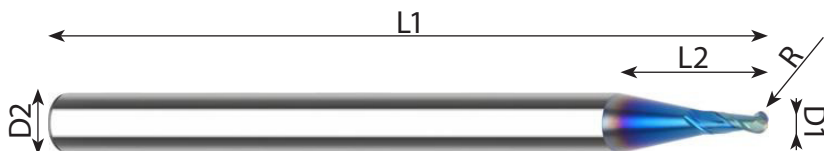
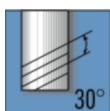
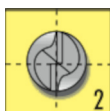
HRC
65



D1	D2	L1	L2	Z	R	Articolo
1	6	50	1,5	2	0,5	F200.010.00
1,5	6	50	2,5	2	0,75	F200.015.00
2	6	50	3	2	1	F200.020.00
2,5	6	50	4	2	1,25	F200.025.00
3	6	75	6	2	1,5	F200.030.00
4	6	75	8	2	2	F200.040.00
5	6	75	10	2	2,5	F200.050.00
6	6	100	12	2	3	F200.060.00
8	8	100	14	2	4	F200.080.00
10	10	100	18	2	5	F200.100.00
12	12	150	22	2	6	F200.120.00
14	14	150	26	2	7	F200.140.00
20	20	150	38	2	10	F200.200.00

FRESE IN METALLO DURO RAGGIATE A 2 TAGLI

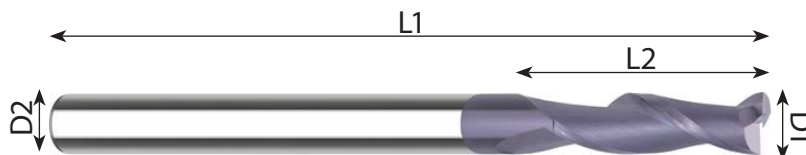
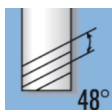
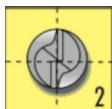
MINI NOSE BALL SOLID CARBIDE END MILLS, 2 FLUTES


naco
HSC


D1	D2	L1	L2	Z	R	Articolo
0,25	4	50	0,5	2	0,13	F201.002.00
0,3	4	50	1	2	0,15	F201.003.00
0,4	4	50	1	2	0,2	F201.004.00
0,5	4	50	1,5	2	0,25	F201.005.00
0,6	4	50	1,5	2	0,3	F201.006.00
0,7	4	50	2	2	0,35	F201.007.00
0,8	4	50	2	2	0,4	F201.008.00
0,9	4	50	2,5	2	0,45	F201.009.00
1	4	50	3	2	0,5	F201.010.00
1,1	4	50	3	2	0,55	F201.011.00
1,2	4	50	3	2	0,6	F201.012.00
1,4	4	50	4	2	0,7	F201.014.00
1,5	4	50	4	2	0,75	F201.015.00
1,6	4	50	5	2	0,8	F201.016.00
1,8	4	50	5	2	0,9	F201.018.00
2	4	50	5	2	1	F201.020.00
2,5	4	50	5	2	1,25	F201.025.00
3	6	50	6	2	1,5	F201.030.00
4	6	54	8	2	2	F201.040.00
5	6	54	9	2	2,5	F201.050.00
6	6	54	10	2	3	F201.060.00
8	8	58	12	2	4	F201.080.00
10	10	66	14	2	5	F201.100.00
12	12	73	16	2	6	F201.120.00
14	14	75	18	2	7	F201.140.00
16	16	82	20	2	8	F201.160.00
20	20	92	24	2	10	F201.200.00

F207

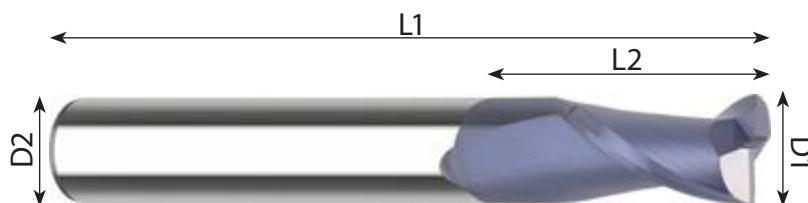
FRESE IN METALLO DURO SERIE EXTRA LUNGA Z2 48°
SOLID CARBIDE END MILLS 48° Z2 EXTRA LONG TYPE

**TIALN****Universal****SERIE
EXTRA
LUNGA**

D1	D2	L1	L2	Z	Articolo
3	3	75	20	2	F207.030.00
4	4	75	25	2	F207.040.00
5	5	75	30	2	F207.050.00
6	6	75	30	2	F207.060.00
8	8	100	40	2	F207.080.00
10	10	100	40	2	F207.100.00
12	12	150	45	2	F207.120.00
16	16	150	65	2	F207.160.00
20	20	150	65	2	F207.200.00

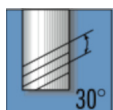
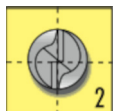
**F207**

FRESE IN METALLO DURO SERIE CORTA Z2 30° SOLID CARBIDE END MILLS 30° Z2 SHORT TYPE

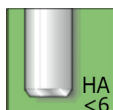


TIALN

Universal



SERIE
CORTA

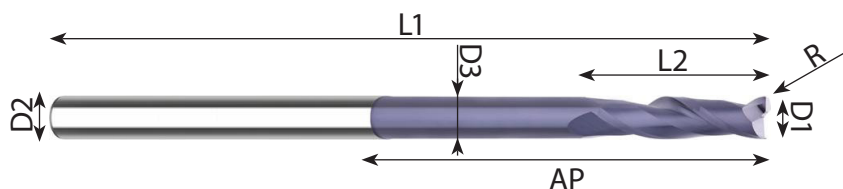


D1	D2	L1	L2	Z	Articolo
1	3	38	2	2	F208.010.00
1,5	3	38	3	2	F208.015.00
2	3	38	6	2	F208.020.00
2,5	3	38	6	2	F208.025.00
3	3	38	7	2	F208.030.00
3,5	6	57	8	2	F208.035.00
4	6	57	8	2	F208.040.00
4,5	6	57	10	2	F208.045.00
4,8	6	57	10	2	F208.048.00
5	6	57	10	2	F208.050.00
5,5	6	57	10	2	F208.055.00
5,75	6	57	10	2	F208.057.00
6	6	57	10	2	F208.060.00
6,75	8	63	13	2	F208.067.00
7	8	63	16	2	F208.070.00
7,5	8	63	16	2	F208.075.00
7,75	8	63	16	2	F208.077.00
8	8	63	16	2	F208.080.00
8,7	10	72	16	2	F208.087.00
9	10	72	16	2	F208.090.00
9,7	10	72	19	2	F208.097.00
10	10	72	19	2	F208.100.00
11,7	12	83	22	2	F208.117.00
12	12	83	22	2	F208.120.00
13,7	14	83	22	2	F208.137.00
14	14	83	22	2	F208.140.00
15,7	16	92	26	2	F208.157.00
16	16	92	26	2	F208.160.00
18	18	92	26	2	F208.180.00
20	20	104	32	2	F208.200.00

F209



FRESE IN METALLO DURO SERIE EXTRA LUNGA Z2 30° SOLID CARBIDE END MILLS 30° Z2 EXTRA LONG TYPE



TIALN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
Universal	6	6	5,5	200	25	120	2	0,3	F209.060.00
	8	8	7,5	200	25	120	2	0,3	F209.080.00
	10	10	9,5	200	50	120	2	0,3	F209.100.00
	12	12	11,5	200	50	120	2	0,4	F209.120.00
	16	16	15,5	220	65	150	2	0,4	F209.160.00
	20	20	19,5	250	65	150	2	0,4	F209.200.00

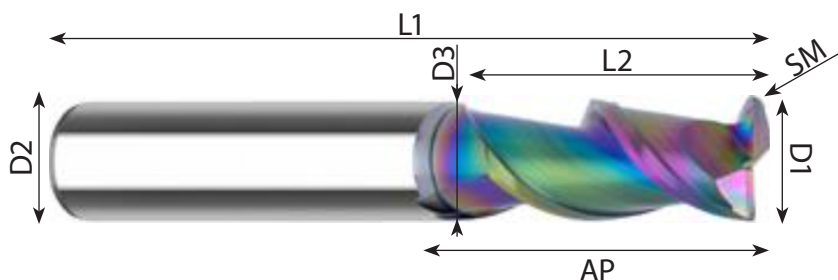
SERIE
EXTRA
LUNGA



F209

FRESE IN METALLO DURO SERIE CORTA Z2 45°

SOLID CARBIDE END MILLS SHORT TYPE Z2 45°

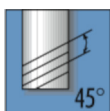
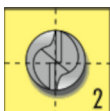


RBW

ALU

LAPPATE

MAT.
PLASTICI



SERIE
CORTA



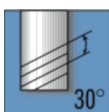
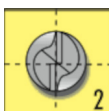
D1	D2	D3	L1	L2	AP	Z	SM	Articolo
0,6	6	0,55	50	2	5	2	0,05	F211.006.00
1	6	0,9	50	3	8	2	0,05	F211.010.00
1,5	6	1,4	50	4	10	2	0,05	F211.015.00
2	6	1,9	50	6	12	2	0,05	F211.020.00
3	6	2,9	57	8	18	2	0,1	F211.030.00
4	6	3,9	57	11	18	2	0,1	F211.040.00
5	6	4,9	57	13	20	2	0,1	F211.050.00
6	6	5,8	57	13	20	2	0,1	F211.060.00
8	8	7,8	63	19	26	2	0,1	F211.080.00
10	10	9,7	72	22	29	2	0,2	F211.100.00
12	12	11,7	83	26	36	2	0,2	F211.120.00
14	14	13,7	83	26	36	2	0,2	F211.140.00
16	16	15,7	92	32	42	2	0,2	F211.160.00
18	18	17,7	92	32	45	2	0,2	F211.180.00
20	20	19,5	104	38	52	2	0,2	F211.200.00

MINIFRESE IN METALLO DURO SERIE CORTA Z2 30° SOLID CARBIDE MINIMILLS 30° Z2 SHORT TYPE



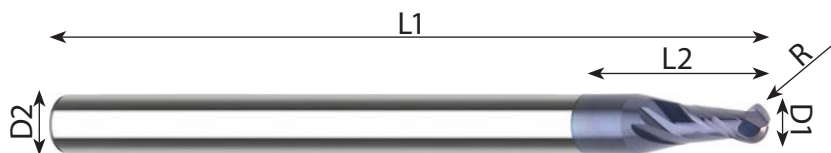
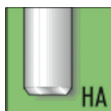
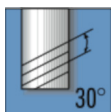
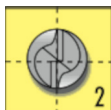
ALTIN

Universal



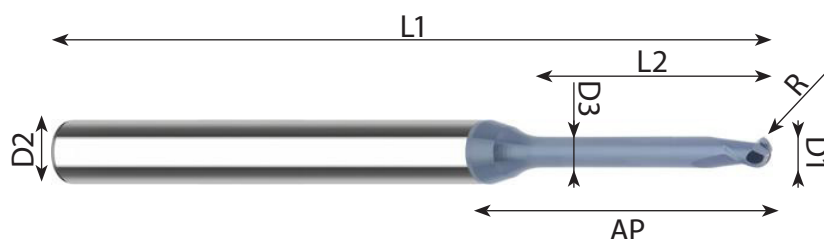
D1	D2	L1	L2	Z	Articolo
0,2	3	38	0,5	2	F213.020.00
0,25	3	38	0,5	2	F213.025.00
0,3	3	38	1	2	F213.030.00
0,4	3	38	1	2	F213.040.00
0,5	3	38	1,5	2	F213.050.00
0,6	3	38	1,5	2	F213.060.00
0,7	3	38	2	2	F213.070.00
0,8	3	38	2	2	F213.080.00
0,9	3	38	2,5	2	F213.090.00
1	3	38	3	2	F213.100.00
1,1	3	38	3	2	F213.110.00
1,2	3	38	4	2	F213.120.00
1,3	3	38	4	2	F213.130.00
1,4	3	38	4	2	F213.140.00
1,5	3	38	4	2	F213.150.00
1,6	3	38	4	2	F213.160.00
1,7	3	38	4	2	F213.170.00
1,8	3	38	5	2	F213.180.00
1,9	3	38	5	2	F213.190.00
2	3	38	5	2	F213.200.00

MINIFRESE IN METALLO DURO Z2 RAGGIATE **SOLID CARBIDE MINIMILLS Z2 BALL NOSE**


ALTIN
Universal


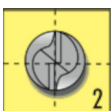
D1	D2	L1	L2	Z	R	Articolo
0,2	3	38	0,5	2	0,1	F214.020.00
0,3	3	38	1	2	0,15	F214.030.00
0,4	3	38	1	2	0,2	F214.040.00
0,5	3	38	1,5	2	0,25	F214.050.00
0,6	3	38	1,5	2	0,3	F214.060.00
0,7	3	38	2	2	0,35	F214.070.00
0,8	3	38	2	2	0,4	F214.080.00
0,9	3	38	2,5	2	0,45	F214.090.00
1	3	38	3	2	0,5	F214.100.00
1,1	3	38	3	2	0,55	F214.110.00
1,2	3	38	3	2	0,6	F214.120.00
1,4	3	38	4	2	0,7	F214.140.00
1,5	3	38	4	2	0,75	F214.150.00
1,6	3	38	5	2	0,8	F214.160.00
1,8	3	38	5	2	0,9	F214.180.00
2	3	38	5	2	1	F214.200.00

MINIFRESE IN METALLO DURO SERIE LUNGA Z2 RAGGIATE SOLID CARBIDE MINIMILLS LONG TYPE Z2 BALL NOSE



ALTIN

A
SECCO



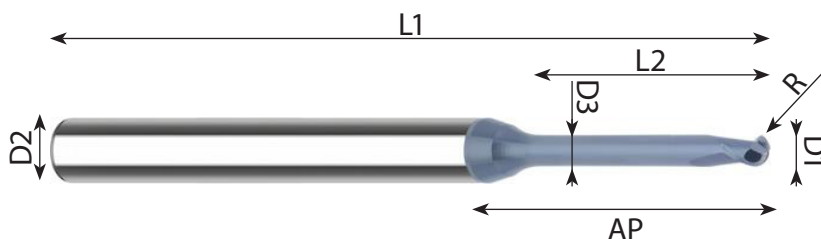
HRC
65

HSC

D1	D2	D3	L1	L2	AP	Z	R	Articolo
0,2	6	0,18	55	0,25	0,6	2	0,1	F216.026.006
0,2	6	0,18	55	0,25	1	2	0,1	F216.026.010
0,2	6	0,18	55	0,25	1,5	2	0,1	F216.026.015
0,3	6	0,18	55	0,25	2	2	0,1	F216.026.020
0,3	6	0,28	55	0,25	1	2	0,15	F216.036.010
0,3	6	0,28	55	0,25	2	2	0,15	F216.036.020
0,3	6	0,28	55	0,25	3	2	0,15	F216.036.030
0,3	6	0,28	55	0,25	5	2	0,15	F216.036.050
0,4	6	0,28	55	0,25	4	2	0,15	F216.036.040
0,4	6	0,38	55	0,3	1	2	0,2	F216.046.010
0,4	6	0,38	55	0,3	2	2	0,2	F216.046.020
0,4	6	0,38	55	0,3	4	2	0,2	F216.046.040
0,4	6	0,38	55	0,3	6	2	0,2	F216.046.060
0,4	6	0,38	55	0,3	3	2	0,2	F216.046.030
0,4	6	0,38	55	0,3	5	2	0,2	F216.046.050
0,5	6	0,38	55	0,3	7	2	0,2	F216.046.070
0,5	6	0,48	55	0,4	2	2	0,25	F216.056.020
0,5	6	0,48	55	0,4	4	2	0,25	F216.056.040
0,5	6	0,48	55	0,4	6	2	0,25	F216.056.060
0,5	6	0,48	55	0,4	6,5	2	0,25	F216.056.065
0,5	6	0,48	55	0,4	8,5	2	0,25	F216.056.085
0,5	6	0,48	55	0,4	10	2	0,25	F216.056.100
0,5	6	0,48	55	0,4	2,5	2	0,25	F216.056.025
0,5	6	0,48	55	0,4	3,5	2	0,25	F216.056.035
0,5	6	0,48	55	0,4	4,5	2	0,25	F216.056.045
0,6	6	0,58	55	0,5	2	2	0,3	F216.066.020
0,6	6	0,58	55	0,5	4	2	0,3	F216.066.040
0,6	6	0,58	55	0,5	6	2	0,3	F216.066.060
0,6	6	0,58	55	0,5	8	2	0,3	F216.066.080



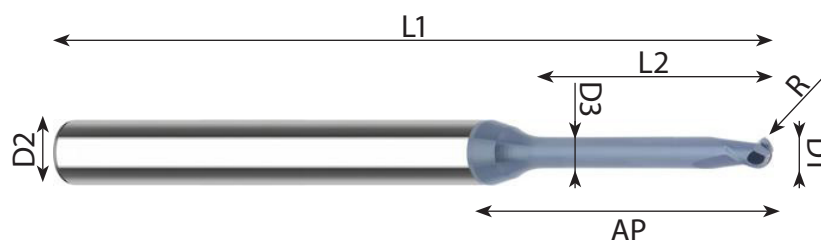
MINIFRESE IN METALLO DURO SERIE LUNGA Z2 RAGGIATE **SOLID CARBIDE MINIMILLS LONG TYPE Z2 BALL NOSE**



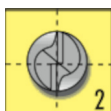
ALTIN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
A SECCO	0,6	6	0,58	65	0,5	8,5	2	0,3	F216.066.085
	0,6	6	0,58	55	0,5	10	2	0,3	F216.066.100
	0,6	6	0,58	65	0,5	11,5	2	0,3	F216.066.115
	0,6	6	0,58	55	0,5	2,5	2	0,3	F216.066.025
	0,6	6	0,58	55	0,5	3,5	2	0,3	F216.066.035
	0,6	6	0,58	55	0,5	4,5	2	0,3	F216.066.045
	0,6	6	0,58	55	0,5	6,5	2	0,3	F216.066.065
	0,8	6	0,77	55	0,6	4	2	0,4	F216.086.040
	0,8	6	0,77	55	0,6	6	2	0,4	F216.086.060
	0,8	6	0,77	55	0,6	8	2	0,4	F216.086.080
	0,8	6	0,77	55	0,6	10	2	0,4	F216.086.100
	0,8	6	0,77	65	0,6	12	2	0,4	F216.086.120
	0,8	6	0,77	65	0,6	14	2	0,4	F216.086.140
	0,8	6	0,77	65	0,6	16	2	0,4	F216.086.160
	0,8	6	0,77	55	0,6	5	2	0,4	F216.086.050
	1	4	0,95	54	0,8	4	2	0,5	F216.104.040
	1	4	0,95	54	0,8	6	2	0,5	F216.104.060
	1	4	0,95	54	0,8	8	2	0,5	F216.104.080
	1	6	0,95	55	0,8	4	2	0,5	F216.106.040
	1	6	0,95	55	0,8	6	2	0,5	F216.106.060
	1	6	0,95	55	0,8	8	2	0,5	F216.106.080
	1	6	0,95	65	0,8	10	2	0,5	F216.106.100
	1	6	0,95	65	0,8	12	2	0,5	F216.106.120
	1	6	0,95	65	0,8	15	2	0,5	F216.106.150
	1	6	0,95	65	0,8	20	2	0,5	F216.106.200
	1	6	0,95	70	0,8	25	2	0,5	F216.106.250
	1	6	0,95	75	0,8	30	2	0,5	F216.106.300
	1	6	0,95	65	0,8	5	2	0,5	F216.106.050
	1	6	0,95	65	0,8	14	2	0,5	F216.106.140

MINIFRESE IN METALLO DURO SERIE LUNGA Z2 RAGGIATE

SOLID CARBIDE MINIMILLS LONG TYPE Z2 BALL NOSE



ALTIN

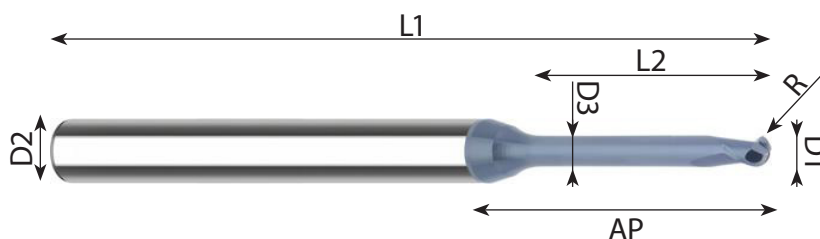
A
SECCOHRC
65

HSC

D1	D2	D3	L1	L2	AP	Z	R	Articolo
1	6	0,95	65	0,8	16	2	0,5	F216.106.160
1,2	6	1,15	55	1	3	2	0,6	F216.126.030
1,2	6	1,15	55	1	5	2	0,6	F216.126.050
1,2	6	1,15	55	1	6	2	0,6	F216.126.060
1,2	6	1,15	55	1	8	2	0,6	F216.126.080
1,2	6	1,15	65	1	10	2	0,6	F216.126.100
1,2	6	1,15	65	1	12	2	0,6	F216.126.120
1,2	6	1,15	65	1	15	2	0,6	F216.126.150
1,2	6	1,15	65	1	20	2	0,6	F216.126.200
1,2	6	1,15	70	1	25	2	0,6	F216.126.250
1,2	6	1,15	65	1	18	2	0,6	F216.126.180
1,4	6	1,35	55	1,2	4	2	0,7	F216.146.040
1,4	6	1,35	55	1,2	6	2	0,7	F216.146.060
1,4	6	1,35	55	1,2	8	2	0,7	F216.146.080
1,4	6	1,35	55	1,2	10	2	0,7	F216.146.100
1,4	6	1,35	65	1,2	12	2	0,7	F216.146.120
1,4	6	1,35	65	1,2	15	2	0,7	F216.146.150
1,4	6	1,35	65	1,2	20	2	0,7	F216.146.200
1,5	6	1,44	55	1,2	6	2	0,75	F216.156.060
1,5	6	1,44	55	1,2	8	2	0,75	F216.156.080
1,5	6	1,44	65	1,2	10	2	0,75	F216.156.100
1,5	6	1,44	65	1,2	12	2	0,75	F216.156.120
1,5	6	1,44	65	1,2	15	2	0,75	F216.156.150
1,5	6	1,44	65	1,2	20	2	0,75	F216.156.200
1,5	6	1,44	65	1,2	25	2	0,75	F216.156.250
1,5	6	1,44	70	1,2	30	2	0,75	F216.156.300
1,6	6	1,55	55	1,5	6	2	0,8	F216.166.060
1,6	6	1,55	55	1,5	8	2	0,8	F216.166.080
1,6	6	1,55	65	1,5	10	2	0,8	F216.166.100



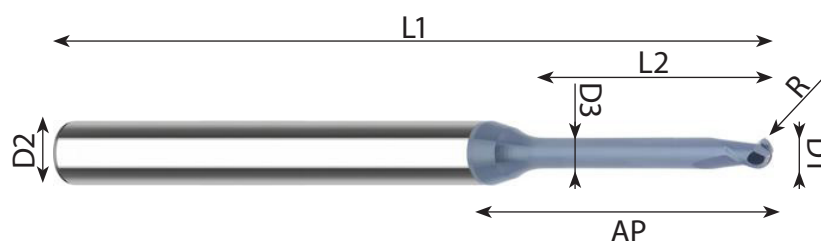
MINIFRESE IN METALLO DURO SERIE LUNGA Z2 RAGGIATE **SOLID CARBIDE MINIMILLS LONG TYPE Z2 BALL NOSE**



ALTIN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
A SECCO	1,6	6	1,55	65	1,5	12	2	0,8	F216.166.120
	1,6	6	1,55	65	1,5	16	2	0,8	F216.166.160
	1,6	6	1,55	65	1,5	20	2	0,8	F216.166.200
	1,8	6	1,72	55	1,5	6	2	0,9	F216.186.060
	1,8	6	1,72	55	1,5	8	2	0,9	F216.186.080
	1,8	6	1,72	65	1,5	12	2	0,9	F216.186.120
HRC 65	1,8	6	1,72	65	1,5	16	2	0,9	F216.186.160
	1,8	6	1,72	65	1,5	20	2	0,9	F216.186.200
	2	6	1,92	54	1,5	12	2	1	F216.206.120
HSC	2	6	1,92	55	1,5	6	2	1	F216.206.060
	2	6	1,92	55	1,5	8	2	1	F216.206.080
	2	6	1,92	65	1,5	10	2	1	F216.206.100
	2	6	1,92	65	1,5	12	2	1	F216.206.120
	2	6	1,92	65	1,5	15	2	1	F216.206.150
	2	6	1,92	65	1,5	20	2	1	F216.206.200
	2	6	1,92	70	1,5	25	2	1	F216.206.250
	2	6	1,92	75	1,5	30	2	1	F216.206.300
	2	6	1,92	65	1,5	16	2	1	F216.206.160
	2,5	6	2,4	55	2	8	2	1,25	F216.256.080
	2,5	6	2,4	65	2	12	2	1,25	F216.256.120
	2,5	6	2,4	65	2	16	2	1,25	F216.256.160
	2,5	6	2,4	65	2	20	2	1,25	F216.256.200
	2,5	6	2,4	70	2	23	2	1,25	F216.256.230
	2,5	6	2,4	70	2	25	2	1,25	F216.256.250
	3	6	2,9	55	2,5	5	2	1,5	F216.306.050
	3	6	2,9	65	2,5	10	2	1,5	F216.306.100
	3	6	2,9	65	2,5	15	2	1,5	F216.306.150
	3	6	2,9	65	2,5	20	2	1,5	F216.306.200
	3	6	2,9	70	2,5	25	2	1,5	F216.306.250

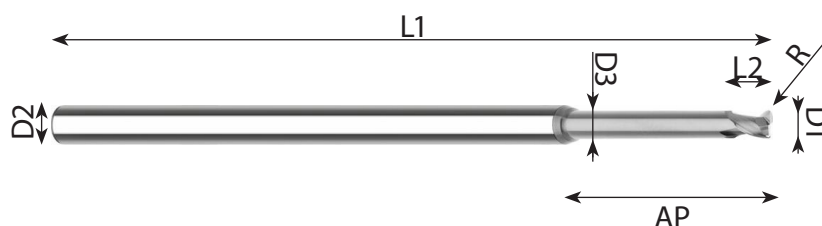
MINIFRESE IN METALLO DURO SERIE LUNGA Z2 RAGGIATE

SOLID CARBIDE MINIMILLS LONG TYPE Z2 BALL NOSE



ALTIN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
A SECCO	3	6	2,9	75	2,5	30	2	1,5	F216.306.300
	3	6	2,9	55	2,5	6	2	1,5	F216.306.060
	3	6	2,9	55	2,5	8	2	1,5	F216.306.080
	3	6	2,9	65	2,5	12	2	1,5	F216.306.120
	3	6	2,9	65	2,5	16	2	1,5	F216.306.160
HRC 65	4	6	3,9	65	3,2	10	2	2	F216.406.100
	4	6	3,9	65	3,2	15	2	2	F216.406.150
	4	6	3,9	65	3,2	20	2	2	F216.406.200
	4	6	3,9	70	3,2	25	2	2	F216.406.250
HSC	4	6	3,9	75	3,2	30	2	2	F216.406.300
	4	6	3,9	75	3,2	35	2	2	F216.406.350
	4	6	3,9	75	3,2	40	2	2	F216.406.400
	5	6	4,9	65	4	10	2	2,5	F216.506.100
	5	6	4,9	65	4	15	2	2,5	F216.506.150
	5	6	4,9	65	4	20	2	2,5	F216.506.200
	5	6	4,9	70	4	25	2	2,5	F216.506.250
	5	6	4,9	75	4	30	2	2,5	F216.506.300
	5	6	4,9	90	4	40	2	2,5	F216.506.400
	5	6	4,9	75	4	18	2	2,5	F216.506.180
	6	6	5,9	65	5	10	2	3	F216.606.100
	6	6	5,9	65	5	15	2	3	F216.606.150
	6	6	5,9	65	5	20	2	3	F216.606.200
	6	6	5,9	70	5	25	2	3	F216.606.250
	6	6	5,9	75	5	30	2	3	F216.606.300
	6	6	5,9	90	5	40	2	3	F216.606.400
	6	6	5,9	90	5	50	2	3	F216.606.500
	6	6	5,9	65	5	18	2	3	F216.606.180

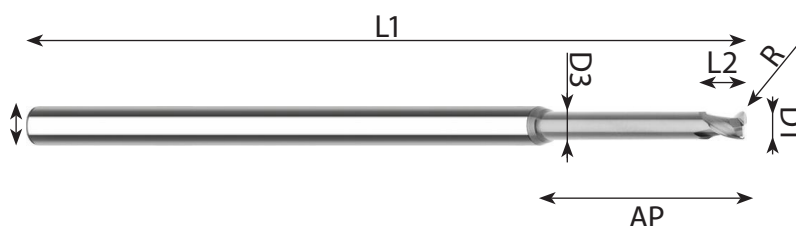
MINIFRESE IN METALLO DURO SERIE EXTRA LUNGA Z2 30° TORICA **SOLID CARBIDE EXTRA LONG TYPE 30° Z2 CORNER RADIUS**



	D1	D2	D3	L1	L2	AP	Z	R	Articolo
TIALCN	0,4	3	0,38	55	0,5	2	2	0,05	F217.043.02
RAME	0,4	3	0,38	55	0,5	4	2	0,05	F217.043.04
	0,5	3	0,48	55	0,6	3	2	0,05	F217.053.03
Universal	0,5	3	0,48	55	0,6	5	2	0,05	F217.053.05
	0,6	4	0,58	55	0,8	4	2	0,06	F217.064.04
	0,6	4	0,58	55	0,8	6	2	0,06	F217.064.06
LAPPATE	0,8	4	0,77	55	1	4	2	0,08	F217.084.04
	0,8	4	0,77	55	1	6	2	0,08	F217.084.06
	0,8	4	0,77	55	1	8	2	0,08	F217.084.08
	0,8	4	0,77	55	1	10	2	0,08	F217.084.10
	1	4	0,95	55	1,2	5	2	0,1	F217.104.05
	1	4	0,95	55	1,2	10	2	0,1	F217.104.10
	1	4	0,95	55	1,2	15	2	0,1	F217.104.15
	1	4	0,95	55	1,2	20	2	0,1	F217.104.20
	1	4	0,95	60	1,2	25	2	0,1	F217.104.25
	1,2	4	1,15	55	1,4	6	2	0,12	F217.124.06
	1,2	4	1,15	55	1,4	12	2	0,12	F217.124.12
	1,5	4	1,44	55	1,8	4	2	0,15	F217.154.04
	1,5	4	1,44	55	1,8	8	2	0,15	F217.154.08
	1,5	4	1,44	55	1,8	12	2	0,15	F217.154.12
	1,5	4	1,44	55	1,8	16	2	0,15	F217.154.16
	1,5	4	1,44	55	1,8	20	2	0,15	F217.154.20
	1,5	4	1,44	60	1,8	25	2	0,15	F217.154.25
	2	4	1,92	65	2	5	2	0,2	F217.204.05
	2	4	1,92	65	2	10	2	0,2	F217.204.10
	2	4	1,92	65	2	15	2	0,2	F217.204.15
	2	4	1,92	75	2	20	2	0,2	F217.204.20
	2	4	1,92	75	2	25	2	0,2	F217.204.25
	2	4	1,92	75	2	30	2	0,2	F217.204.30

MINIFRESE IN METALLO DURO SERIE EXTRA LUNGA Z2 30° TORICA

SOLID CARBIDE EXTRA LONG TYPE 30° Z2 CORNER RADIUS

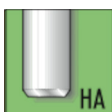
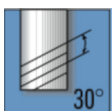
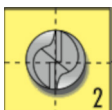


TIALCN

RAME

Universal

LAPPATE

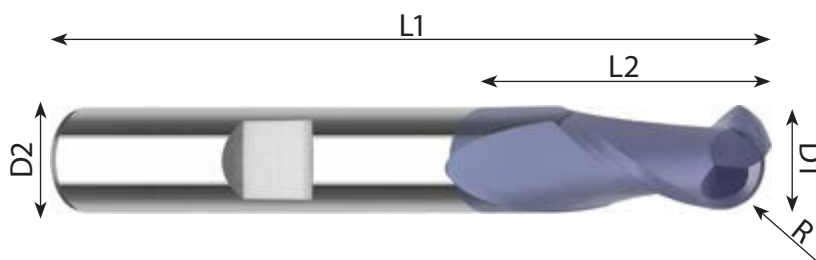
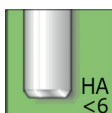
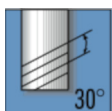
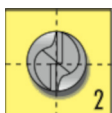


D1	D2	D3	L1	L2	AP	Z	R	Articolo
3	4	2,9	65	3	5	2	0,3	F217.304.05
3	4	2,9	65	3	10	2	0,3	F217.304.10
3	4	2,9	65	3	15	2	0,3	F217.304.15
3	4	2,9	65	3	20	2	0,3	F217.304.20
3	4	2,9	75	3	25	2	0,3	F217.304.25
3	4	2,9	75	3	30	2	0,3	F217.304.30
4	6	3,9	65	4	10	2	0,3	F217.406.10
4	6	3,9	65	4	15	2	0,3	F217.406.15
4	6	3,9	65	4	20	2	0,3	F217.406.20
4	6	3,9	75	4	25	2	0,3	F217.406.25
4	6	3,9	75	4	30	2	0,3	F217.406.30
5	6	4,9	65	5	10	2	0,3	F217.506.10
5	6	4,9	65	5	20	2	0,3	F217.506.20
5	6	4,9	75	5	30	2	0,3	F217.506.30
5	6	4,9	90	5	40	2	0,3	F217.506.40
6	6	5,9	65	6	20	2	0,3	F217.606.20
6	6	5,9	75	6	30	2	0,3	F217.606.30
6	6	5,9	90	6	40	2	0,3	F217.606.40
6	6	5,9	90	6	50	2	0,3	F217.606.50

**F218**

FRESE IN METALLO DURO SERIE MEDIA Z2 RAGGIATE

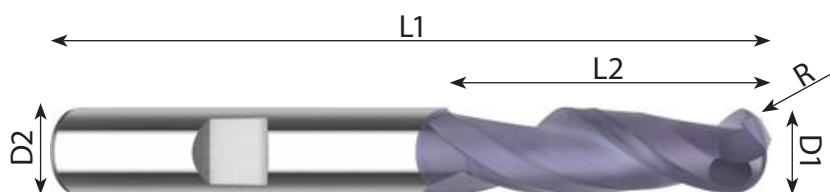
SOLID CARBIDE BALL NOSE END MILLS MEDIUM TYPE Z2

**TIALN****Universal**

D1	D2	L1	L2	Z	R	Articolo
3	3	38	7	2	1,5	F218.030.00
4	4	50	14	2	2	F218.040.00
5	6	50	16	2	2,5	F218.050.00
6	6	57	19	2	3	F218.060.00
8	8	63	20	2	4	F218.080.00
10	10	72	21	2	5	F218.100.00
12	12	83	25	2	6	F218.120.00
16	16	92	32	2	8	F218.160.00
20	20	104	38	2	10	F218.200.00

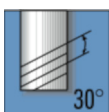
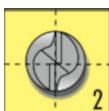
F218

FRESE IN METALLO DURO RAGGIATE EXTRA LUNGHE A 2 ELICHE SOLID CARBIDE BALL NOSE END MILLS EXTRA LONG, 2 FLUTES

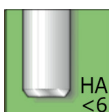


TIALN

Universal



SERIE
EXTRA
LUNGA



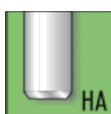
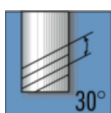
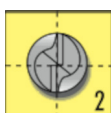
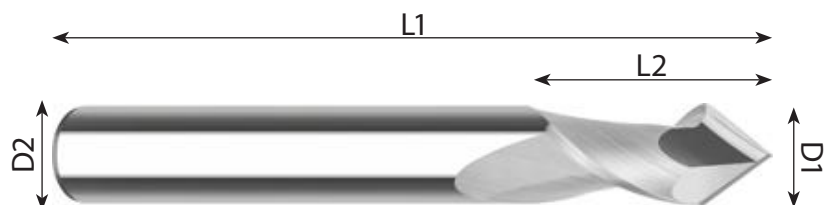
D1	D2	L1	L2	Z	R	Articolo
3	3	60	20	2	1,5	F219.030.00
4	4	60	25	2	2	F219.040.00
5	5	75	25	2	2,5	F219.050.00
6	6	75	30	2	3	F219.060.00
8	8	100	45	2	4	F219.080.00
10	10	100	45	2	5	F219.100.00
12	12	100	45	2	6	F219.120.10
12	12	150	65	2	6	F219.120.15
16	16	100	45	2	8	F219.160.10
16	16	150	65	2	8	F219.160.15

FRESE IN METALLO DURO SERIE LUNGA Z2 RAGGIATE SOLID CARBIDE END MILLS BALL NOSE Z2 LONG TYPE



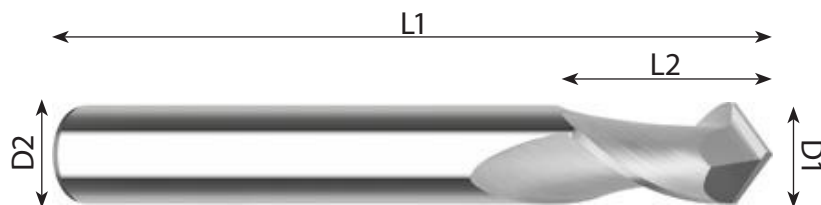
TIALN	D1	D2	L1	L2	Z	R	Articolo
Universal	1	3	50	1,5	2	0,5	F221.010.00
	1,5	3	50	2,5	2	0,75	F221.015.00
	2	3	50	3	2	1	F221.020.00
INCONEL TITAN	2,5	3	50	4	2	1,25	F221.025.00
	3	3	75	6	2	1,5	F221.030.00
	4	4	75	8	2	2	F221.040.00
HRC 65	5	5	75	10	2	2,5	F221.050.00
	6	6	100	12	2	3	F221.060.00
	8	8	100	14	2	4	F221.080.00
HSC	10	10	100	18	2	5	F221.100.00
	12	12	150	22	2	6	F221.120.00
	14	14	150	26	2	7	F221.140.00
	16	16	150	30	2	8	F221.160.00
	18	18	150	34	2	9	F221.180.00
	20	20	150	38	2	10	F221.200.00

MULTIMILL FORA, FRESA, SMUSSA A 60°
60° MULTIMILL FOR HOLES, MILLING, CHAMFER

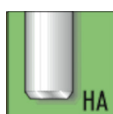
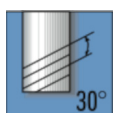
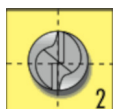


D1	D2	L1	L2	Z	Articolo
3	4	50	9	2	F222.030.00
4	5	50	11,5	2	F222.040.00
5	6	50	14,5	2	F222.050.00
6	8	58	17,5	2	F222.060.00
8	10	72	23	2	F222.080.00
10	12	90	27	2	F222.100.00
12	12	90	30,5	2	F222.120.00

MULTIMILL FOSA, FRESA, SMUSSA A 90°
90° MULTIMILL FOR HOLES, MILLING, CHAMFER



Universal

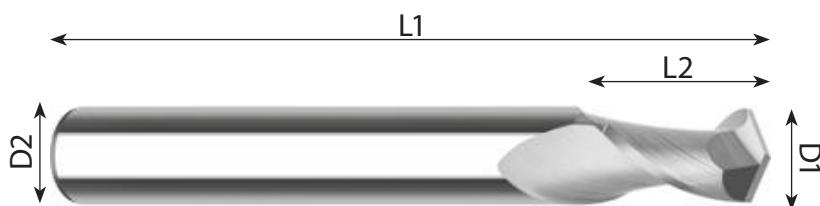


D1	D2	L1	L2	Z	Articolo
3	4	50	7,5	2	F223.030.00
4	5	50	10	2	F223.040.00
5	6	50	12,5	2	F223.050.00
6	8	58	15	2	F223.060.00
8	10	72	20	2	F223.080.00
10	12	90	23	2	F223.100.00
12	12	90	26	2	F223.120.00
16	16	92	34	2	F223.160.00
20	20	100	42	2	F223.200.00

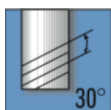
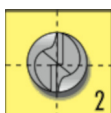
F224



MULTIMILL FORA, FRESA, SMUSSA A 120° 120° MULTIMILL FOR HOLES, MILLING, CHAMFER



Universal

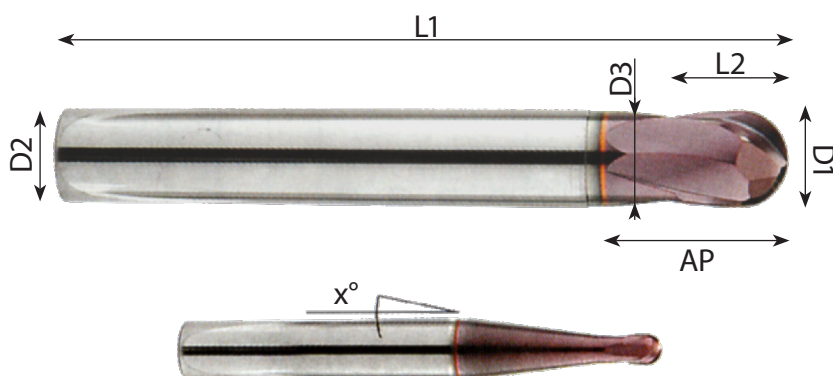


D1	D2	L1	L2	Z	Articolo
3	4	50	7	2	F224.030.00
5	6	50	11,5	2	F224.050.00
6	8	58	14	2	F224.060.00
10	12	90	21	2	F224.100.00



F224

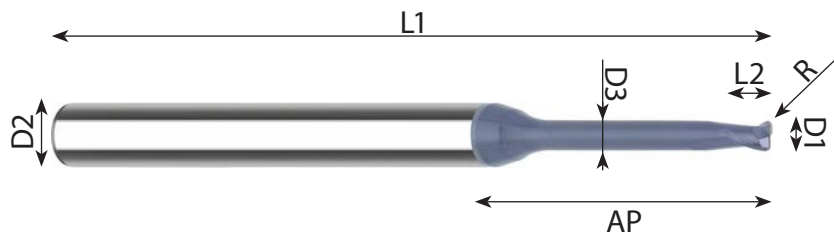
FRESA A TESTA SFERICA 3D IN METALLO DURO **SOLID CARBIDE 3D BALL NOSE END MILL**



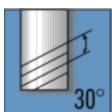
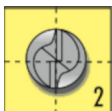
	D1	D2	D3	L1	L2	AP	Z	x°	Articolo
INCONEL TITAN	1	6	0,95	50	1	3	2	20°	F226.0106.50
GG	2	6	1,95	50	3	6	2	10°	F226.0206.50
	2	6	1,95	57	3	6	2	10°	F226.0206.57
HRC 70	2	6	1,95	75	2	6	2	10°	F226.0206.75
	3	6	2,9	50	4	9	2	8°	F226.0306.50
	3	6	2,9	57	4	9	2	8°	F226.0306.57
HSC	3	6	2,9	75	3	9	2	8°	F226.0306.75
	4	6	3,9	50	5	12	2	6°	F226.0406.50
	4	6	3,9	57	5	12	2	6°	F226.0406.57
	4	6	3,9	75	4	12	2	6°	F226.0406.75
	5	6	4,9	57	6	16	2	3°	F226.0506.57
	5	6	4,9	75	6	16	2	3°	F226.0506.75
	6	6	5,9	57	6	20	2		F226.0606.57
	6	6	5,9	75	6	20	2		F226.0606.75
	6	6	5,9	100	6	20	2		F226.0606.100
	6	6	5,9	100	6	12	2	7°	F226.0608.100
	8	8	7,8	60	9	16	2		F226.0808.60
	8	8	7,8	75	9	29	2		F226.0808.75
	8	8	7,8	100	9	29	2		F226.0808.100
	8	8	7,8	100	9	29	2	8°	F226.0810.100
	10	10	9,8	70	10	20	2		F226.1010.70
	10	10	9,8	80	10	35	2		F226.1010.80
	10	10	9,8	100	10	35	2		F226.1010.100
	10	10	9,8	100	10	35	2	8°	F226.1012.100
	12	12	11,8	75	12	24	2		F226.1212.75
	12	12	11,8	100	12	37	2		F226.1212.100

FRESA IN METALLO DURO SCARICATA Z2 TORICA

SOLID CARBIDE END MILL WITH CORNER RADIUS Z2

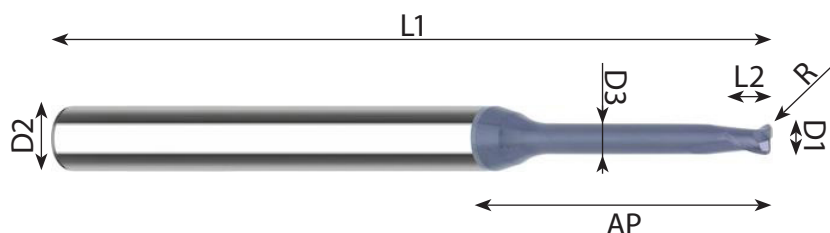
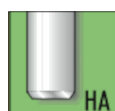
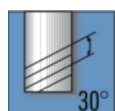
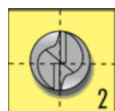


ALTIN

A
SECCOHRC
65

D1	D2	D3	L1	L2	AP	Z	R	Articolo
0,2	6	0,18	55	0,45	1	2	0,05	F227.020.01
0,2	6	0,18	55	0,45	1,5	2	0,05	F227.020.02
0,2	6	0,18	55	0,45	2	2	0,05	F227.020.03
0,3	6	0,28	55	0,45	1	2	0,05	F227.030.10
0,3	6	0,28	55	0,45	2	2	0,05	F227.030.11
0,3	6	0,28	55	0,45	3	2	0,05	F227.030.12
0,3	6	0,28	55	0,45	5	2	0,05	F227.030.13
0,4	6	0,38	55	0,6	1,2	2	0,05	F227.040.09
0,4	6	0,38	55	0,6	2	2	0,05	F227.040.10
0,4	6	0,38	55	0,6	4	2	0,05	F227.040.11
0,4	6	0,38	55	0,6	6	2	0,05	F227.040.12
0,4	6	0,38	55	0,6	3	2	0,05	F227.041.10
0,4	6	0,38	55	0,6	5	2	0,05	F227.041.11
0,4	6	0,38	55	0,6	7	2	0,05	F227.041.12
0,5	6	0,48	55	0,7	2	2	0,05	F227.050.10
0,5	6	0,48	55	0,7	4	2	0,05	F227.050.11
0,5	6	0,48	55	0,7	6	2	0,05	F227.050.12
0,5	6	0,48	55	0,7	6,5	2	0,05	F227.050.13
0,5	6	0,48	55	0,7	8,5	2	0,05	F227.050.14
0,5	6	0,48	65	0,7	10	2	0,05	F227.050.15
0,5	6	0,48	55	0,7	2,5	2	0,05	F227.051.11
0,5	6	0,48	55	0,7	3,5	2	0,05	F227.051.12
0,5	6	0,48	55	0,7	4,5	2	0,05	F227.051.13
0,6	6	0,58	55	0,9	1,5	2	0,05	F227.060.01
0,6	6	0,58	55	0,9	2	2	0,05	F227.060.02
0,6	6	0,58	55	0,9	3	2	0,05	F227.060.03
0,6	6	0,58	55	0,9	4	2	0,05	F227.060.04
0,6	6	0,58	55	0,9	5	2	0,05	F227.060.05
0,6	6	0,58	55	0,9	6	2	0,05	F227.060.06
0,6	6	0,58	55	0,9	8	2	0,05	F227.060.07

FRESE IN METALLO DURO SCARICATE Z2 TORICA SOLID CARBIDE END MILL WITH CORNER RADIUS Z2

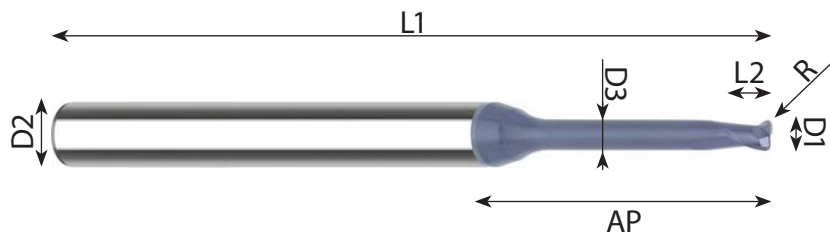

ALTIN
**A
SECCO**
**HRC
65**


D1	D2	D3	L1	L2	AP	Z	R	Articolo
0,6	6	0,58	55	0,9	9	2	0,05	F227.060.08
0,6	6	0,58	55	0,9	10	2	0,05	F227.060.09
0,6	6	0,58	55	0,9	2	2	0,05	F227.060.10
0,6	6	0,58	55	0,9	4	2	0,05	F227.060.11
0,6	6	0,58	55	0,9	6	2	0,05	F227.060.12
0,6	6	0,58	55	0,9	8	2	0,06	F227.060.13
0,8	6	0,77	55	1,2	2	2	0,05	F227.080.01
0,8	6	0,77	55	1,2	4	2	0,05	F227.080.02
0,8	6	0,77	55	1,2	5	2	0,05	F227.080.03
0,8	6	0,77	55	1,2	6	2	0,05	F227.080.04
0,8	6	0,77	55	1,2	8	2	0,05	F227.080.05
0,8	6	0,77	55	1,2	10	2	0,05	F227.080.06
0,8	6	0,77	55	1,2	12	2	0,05	F227.080.07
0,8	6	0,77	55	1,2	14	2	0,05	F227.080.08
0,8	6	0,77	55	1,2	16	2	0,05	F227.080.09
0,8	6	0,77	55	1,2	2	2	0,08	F227.080.10
0,8	6	0,77	55	1,2	4	2	0,08	F227.080.11
0,8	6	0,77	55	1,2	6	2	0,08	F227.080.12
0,8	6	0,77	55	1,2	8	2	0,08	F227.080.13
0,8	6	0,77	65	1,2	10	2	0,08	F227.080.14
1	4	0,95	54	1,6	3	2	0,1	F227.100.03
1	4	0,95	54	1,6	4	2	0,1	F227.100.04
1	4	0,95	54	1,6	5	2	0,1	F227.100.05
1	4	0,95	54	1,6	6	2	0,1	F227.100.06
1	4	0,95	54	1,6	8	2	0,1	F227.100.07
1	6	0,95	55	1,6	3	2	0,1	F227.100.10
1	6	0,95	55	1,6	4	2	0,1	F227.100.11
1	6	0,95	55	1,6	5	2	0,1	F227.100.12
1	6	0,95	55	1,6	6	2	0,1	F227.100.13
1	6	0,95	55	1,6	8	2	0,1	F227.100.14

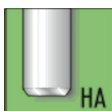
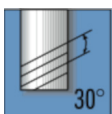
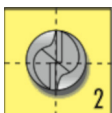


FRESE IN METALLO DURO SCARICATE Z2 TORICA

SOLID CARBIDE END MILL WITH CORNER RADIUS Z2



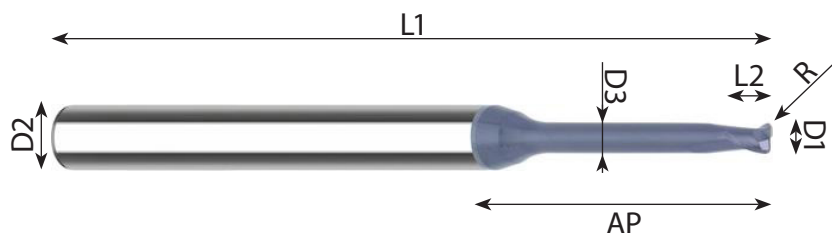
ALTIN

A
SECCOHRC
65

D1	D2	D3	L1	L2	AP	Z	R	Articolo
1	6	0,95	65	1,6	10	2	0,1	F227.100.15
1	6	0,95	65	1,6	12	2	0,1	F227.100.16
1	6	0,95	65	1,6	15	2	0,1	F227.100.17
1	6	0,95	65	1,6	20	2	0,1	F227.100.18
1	6	0,95	70	1,6	25	2	0,1	F227.100.19
1	6	0,95	75	1,6	30	2	0,1	F227.100.20
1	6	0,95	65	1,6	12	2	0,2	F227.100.21
1	6	0,95	65	1,6	16	2	0,2	F227.100.22
1	6	0,95	65	1,6	20	2	0,2	F227.100.23
1	6	0,95	65	1,6	16	2	0,1	F227.101.17
1,2	6	1,15	55	1,9	3	2	0,1	F227.120.09
1,2	6	1,15	55	1,9	4	2	0,12	F227.120.10
1,2	6	1,15	55	1,9	6	2	0,12	F227.120.11
1,2	6	1,15	55	1,9	8	2	0,12	F227.120.12
1,2	6	1,15	65	1,9	10	2	0,12	F227.120.13
1,2	6	1,15	65	1,9	12	2	0,12	F227.120.14
1,2	6	1,15	65	1,9	15	2	0,12	F227.120.15
1,2	6	1,15	65	1,9	20	2	0,12	F227.120.16
1,2	6	1,15	70	1,9	25	2	0,12	F227.120.17
1,2	6	1,15	55	1,9	5	2	0,1	F227.121.12
1,2	6	1,15	55	1,9	11	2	0,1	F227.121.13
1,2	6	1,15	65	1,9	13	2	0,1	F227.121.14
1,2	6	1,15	65	1,9	16	2	0,1	F227.122.15
1,2	6	1,15	65	1,9	18	2	0,1	F227.122.16
1,4	6	1,35	55	2	3	2	0,1	F227140.10
1,4	6	1,35	55	2	5	2	0,1	F227140.11
1,4	6	1,35	65	2	11	2	0,1	F227140.12
1,4	6	1,35	65	2	13	2	0,1	F227140.13
1,4	6	1,35	65	2	16	2	0,1	F227140.14
1,4	6	1,35	65	2	18	2	0,1	F227140.15

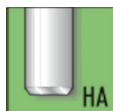
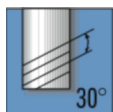
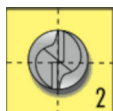
FRESE IN METALLO DURO SCARICATE Z2 TORICA

SOLID CARBIDE END MILL WITH CORNER RADIUS Z2



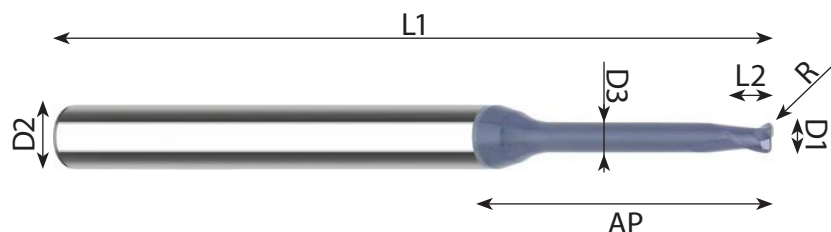
ALTIN

 A
SECCO

 HRC
65


D1	D2	D3	L1	L2	AP	Z	R	Articolo
1,5	6	1,35	55	2,4	6	2	0,1	F227.150.03
1,5	6	1,4	55	2,4	8	2	0,1	F227.150.04
1,5	6	1,4	65	2,4	10	2	0,1	F227.150.05
1,5	6	1,4	65	2,4	12	2	0,1	F227.150.06
1,5	6	1,4	65	2,4	15	2	0,1	F227.150.07
1,5	6	1,4	65	2,4	20	2	0,1	F227.150.08
1,5	6	1,4	70	2,4	25	2	0,1	F227.150.09
1,5	6	1,4	55	2,4	5	2	0,15	F227.150.10
1,5	6	1,4	55	2,4	6	2	0,15	F227.150.11
1,5	6	1,44	55	2,4	8	2	0,15	F227.150.12
1,5	6	1,44	65	2,4	10	2	0,15	F227.150.13
1,5	6	1,44	65	2,4	12	2	0,15	F227.150.14
1,5	6	1,44	65	2,4	15	2	0,15	F227.150.15
1,5	6	1,44	65	2,4	20	2	0,15	F227.150.16
1,5	6	1,44	70	2,4	25	2	0,15	F227.150.17
1,5	6	1,44	75	2,4	30	2	0,15	F227.150.18
1,5	6	1,4	55	2,4	6	2	0,3	F227.150.19
1,5	6	1,4	65	2,4	10	2	0,3	F227.150.20
1,5	6	1,4	65	2,4	15	2	0,3	F227.150.21
1,6	6	1,5	55	2,5	5	2	0,2	F227.160.10
1,6	6	1,5	55	2,5	8	2	0,2	F227.160.11
1,6	6	1,5	65	2,5	12	2	0,2	F227.160.12
1,6	6	1,5	65	2,5	16	2	0,2	F227.160.13
1,6	6	1,5	65	2,5	20	2	0,2	F227.160.14
1,8	6	1,7	55	2,7	6	2	0,2	F227.180.10
1,8	6	1,7	55	2,7	9	2	0,2	F227.180.11
1,8	6	1,7	65	2,7	13	2	0,2	F227.180.12
1,8	6	1,7	65	2,7	18	2	0,2	F227.180.13
1,8	6	1,7	65	2,7	22	2	0,2	F227.180.14
2	4	1,92	54	2,8	6	2	0,2	F227.200.02

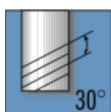
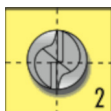
FRESE IN METALLO DURO SCARICATE Z2 TORICA SOLID CARBIDE END MILL WITH CORNER RADIUS Z2



ALTIN

A
SECCO

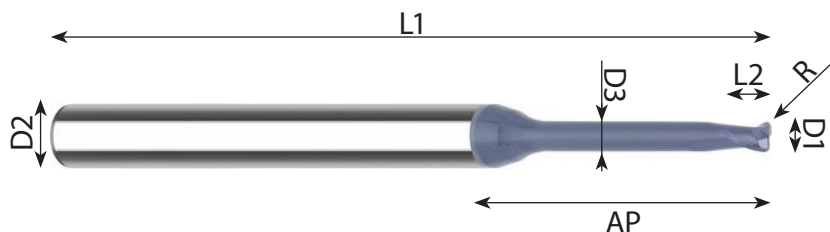
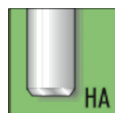
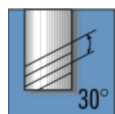
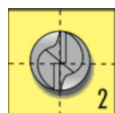
HRC
65



D1	D2	D3	L1	L2	AP	Z	R	Articolo
2	4	1,92	54	2,8	8	2	0,2	F227.200.04
2	4	1,92	54	2,8	10	2	0,2	F227.200.06
2	6	1,92	55	2,8	6	2	0,2	F227.200.10
2	6	1,92	55	2,8	8	2	0,2	F227.200.11
2	6	1,92	65	2,8	10	2	0,2	F227.200.12
2	6	1,92	65	2,8	12	2	0,2	F227.200.13
2	6	1,92	65	2,8	15	2	0,2	F227.200.14
2	6	1,92	65	2,8	20	2	0,2	F227.200.15
2	6	1,92	70	2,8	25	2	0,2	F227.200.16
2	6	1,92	75	2,8	30	2	0,2	F227.200.17
2	6	1,9	55	2,8	6	2	0,5	F227.200.18
2	6	1,9	65	2,8	12	2	0,5	F227.200.19
2	6	1,9	65	2,8	20	2	0,5	F227.200.20
2	6	1,9	70	2,8	25	2	0,5	F227.200.21
2	6	1,9	65	2,8	16	2	0,2	F227.201.14
2,5	6	2,4	55	2,8	8	2	0,25	F227.250.10
2,5	6	2,4	65	2,8	12	2	0,25	F227.250.11
2,5	6	2,4	65	2,8	16	2	0,25	F227.250.12
2,5	6	2,4	65	2,8	20	2	0,25	F227.250.13
2,5	6	2,4	70	2,8	22	2	0,25	F227.250.14
2,5	6	2,4	70	2,8	25	2	0,25	F227.250.15
3	6	2,9	55	3	6	2	0,3	F227.300.03
3	6	2,9	55	3	8	2	0,3	F227.300.04
3	6	2,9	55	3	10	2	0,3	F227.300.05
3	6	2,9	65	3	12	2	0,3	F227.300.06
3	6	2,9	65	3	16	2	0,3	F227.300.07
3	6	2,9	65	3	20	2	0,3	F227.300.08
3	6	2,9	70	3	25	2	0,3	F227.300.09
3	6	2,9	55	3	5	2	0,5	F227.300.10
3	6	2,9	55	3	8	2	0,5	F227.300.11



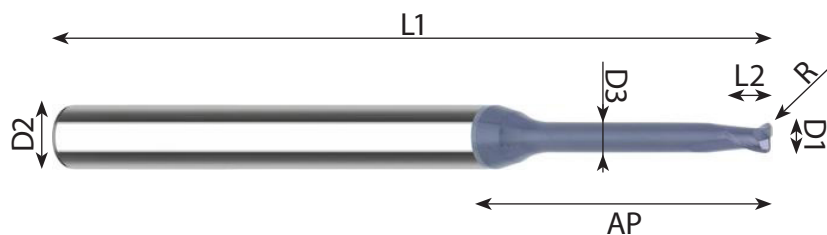
FRESE IN METALLO DURO SCARICATE Z2 TORICA SOLID CARBIDE END MILL WITH CORNER RADIUS Z2


ALTIN
**A
SECCO**
**HRC
65**


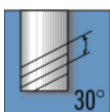
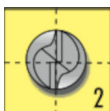
D1	D2	D3	L1	L2	AP	Z	R	Articolo
3	6	2,9	65	3	10	2	0,5	F227.300.12
3	6	2,9	65	3	15	2	0,5	F227.300.13
3	6	2,9	65	3	20	2	0,5	F227.300.14
3	6	2,9	70	3	25	2	0,5	F227.300.15
3	6	2,9	75	3	30	2	0,5	F227.300.16
3	6	2,9	55	3	6	2	0,5	F227.301.10
3	6	2,9	55	3	12	2	0,5	F227.301.12
4	6	3,9	65	4	10	2	0,4	F227.400.04
4	6	3,9	65	4	15	2	0,4	F227.400.05
4	6	3,9	65	4	20	2	0,4	F227.400.06
4	6	3,9	70	4	25	2	0,4	F227.400.07
4	6	3,9	75	4	30	2	0,4	F227.400.08
4	6	3,9	75	4	35	2	0,4	F227.400.09
4	6	3,9	65	4	10	2	0,5	F227.400.10
4	6	3,9	65	4	15	2	0,5	F227.400.11
4	6	3,9	65	4	20	2	0,5	F227.400.12
4	6	3,9	70	4	25	2	0,5	F227.400.13
4	6	3,9	75	4	30	2	0,5	F227.400.14
4	6	3,9	75	4	40	2	0,5	F227.400.15
5	6	4,9	65	5	10	2	0,5	F227.500.10
5	6	4,9	65	5	15	2	0,5	F227.500.11
5	6	4,9	65	5	20	2	0,5	F227.500.11
5	6	4,9	75	5	30	2	0,5	F227.500.12
5	6	4,9	90	5	40	2	0,5	F227.500.13
5	6	4,9	65	5	25	2	0,5	F227.501.12
6	6	5,9	65	6	10	2	0,5	F227.600.10
6	6	5,9	65	6	15	2	0,5	F227.600.11
6	6	5,9	65	6	20	2	0,5	F227.600.12
6	6	5,9	75	6	30	2	0,5	F227.600.13
6	6	5,9	90	6	40	2	0,5	F227.600.14

FRESE IN METALLO DURO SCARICATE Z2 TORICA

SOLID CARBIDE END MILL WITH CORNER RADIUS Z2

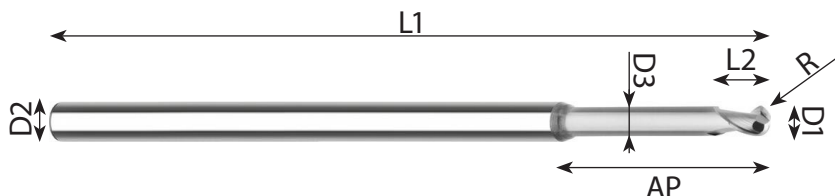
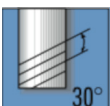
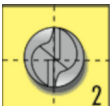


ALTIN

A
SECCOHRC
65

D1	D2	D3	L1	L2	AP	Z	R	Articolo
6	6	5,9	90	6	50	2	0,5	F227.600.15
6	6	4,9	65	6	20	2	0,6	F227.600.16
6	6	4,9	65	6	25	2	0,6	F227.600.17
6	6	4,9	75	6	30	2	0,6	F227.600.18
6	6	4,9	75	6	35	2	0,6	F227.600.19
6	6	4,9	90	6	40	2	0,6	F227.600.20
6	6	4,9	90	6	50	2	0,6	F227.600.21

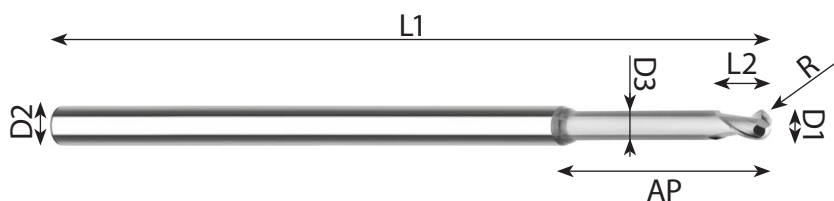
FRESE SFERICHE SCARICATE SOLID CARBIDE END MILLS


TIALCN
ALU
RAME
NE
HSC


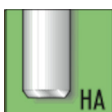
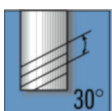
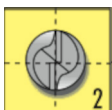
D1	D2	D3	L1	L2	AP	Z	R	Articolo
0,4	3	0,38	55	0,5	2	2	0,2	F228.040.02
0,4	3	0,38	55	0,5	4	2	0,2	F228.040.04
0,5	3	0,48	55	0,6	3	2	0,25	F228.050.03
0,5	3	0,48	55	0,6	5	2	0,25	F228.050.05
0,6	4	0,58	55	0,8	2	2	0,3	F228.060.02
0,6	4	0,58	55	0,8	4	2	0,3	F228.060.04
0,6	4	0,58	55	0,8	6	2	0,3	F228.060.06
0,8	4	0,77	55	1	4	2	0,4	F228.080.04
0,8	4	0,77	55	1	6	2	0,4	F228.080.06
0,8	4	0,77	55	1	8	2	0,4	F228.080.08
0,8	4	0,77	55	1	10	2	0,4	F228.080.10
1	4	0,95	55	1,2	5	2	0,5	F228.100.05
1	4	0,95	55	1,2	10	2	0,5	F228.100.10
1	4	0,95	55	1,2	15	2	0,5	F228.100.15
1	4	0,95	55	1,2	20	2	0,5	F228.100.20
1	4	0,95	60	1,2	25	2	0,5	F228.100.25
1,2	4	1,15	55	1,4	6	2	0,6	F228.120.06
1,2	4	1,15	55	1,4	12	2	0,6	F228.120.12
1,2	4	1,15	55	1,4	18	2	0,6	F228.120.18
1,5	4	1,44	55	1,8	4	2	0,75	F228.150.04
1,5	4	1,44	55	1,8	8	2	0,75	F228.150.08
1,5	4	1,44	55	1,8	12	2	0,75	F228.150.12
1,5	4	1,44	55	1,8	16	2	0,75	F228.150.16
1,5	4	1,44	55	1,8	20	2	0,75	F228.150.20
1,5	4	1,44	60	1,8	25	2	0,75	F228.150.25
2	4	1,92	65	2	5	2	1	F228.200.05
2	4	1,92	65	2	10	2	1	F228.200.10
2	4	1,92	65	2	15	2	1	F228.200.15
2	4	1,92	65	2	20	2	1	F228.200.20
2	4	1,92	75	2	25	2	1	F228.200.25

FRESE SFERICHE SCARICATE

SOLID CARBIDE END MILLS

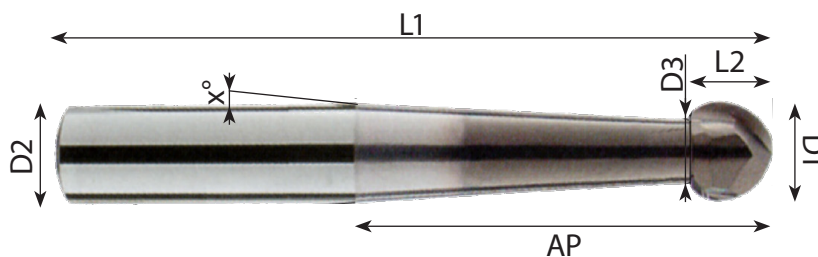


	D1	D2	D3	L1	L2	AP	Z	R	Articolo
TIALCN	2	4	1,92	75	2	30	2	1	F228.200.30
ALU	3	4	2,9	65	3	5	2	1,5	F228.300.05
	3	4	2,9	65	3	10	2	1,5	F228.300.10
RAME	3	4	2,9	65	3	15	2	1,5	F228.300.15
	3	4	2,9	65	3	20	2	1,5	F228.300.20
	3	4	2,9	75	3	25	2	1,5	F228.300.25
NE	3	4	2,9	75	3	30	2	1,5	F228.300.30
	4	6	3,9	65	4	10	2	2	F228.400.10
	4	6	3,9	65	4	15	2	2	F228.400.15
HSC	4	6	3,9	65	4	20	2	2	F228.400.20
	4	6	3,9	75	4	25	2	2	F228.400.25
	4	6	3,9	75	4	30	2	2	F228.400.30
	5	6	4,9	65	5	10	2	2,5	F228.500.10
	5	6	4,9	65	5	20	2	2,5	F228.500.20
	5	6	4,9	75	5	30	2	2,5	F228.500.30
	6	6	5,9	65	6	10	2	3	F228.600.10
	6	6	5,9	65	6	20	2	3	F228.600.20
	6	6	5,9	75	6	30	2	3	F228.600.30
	6	6	5,9	90	6	40	2	3	F228.600.40
	6	6	5,9	90	6	50	2	3	F228.600.50



FRESA A PALLA 3D IN METALLO DURO Z2

SOLID CARBIDE 3D BALL END MILL Z2

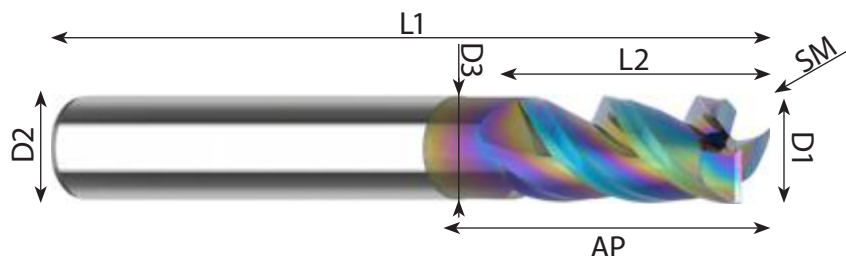


TIALN	D1	D2	D3	L1	L2	AP	Z	x°	Articolo
Universal	2	4	1	75	1,7	17	2	6°	F230.020.075
	3	6	1,7	100	2,6	17	2	8°	F230.030.100
	3	6	1,7	150	2,6	30	2	4°25'	F230.030.150
HRC 45	4	6	2,4	100	3,5	17	2	7°	F230.040.100
	4	6	2,4	150	3,5	30	2	3°50'	F230.040.150
	5	6	3,4	100	4	30	2	1°40'	F230.050.100
	6	6	4	100	5,2	30	2	2°10'	F230.060.100
	6	6	4	150	5,2	45	2	1°20'	F230.060.150
	8	8	5	100	7	35	2	3°10'	F230.080.100
	8	8	5	150	7	50	2	1°55'	F230.080.150
	10	10	6,1	100	8,7	40	2	3°40'	F230.100.100
	10	10	6,1	150	8,7	60	2	2°10'	F230.100.150
	12	12	7,5	100	10,5	50	2	3°10'	F230.120.100
	12	12	7,5	150	10,5	75	2	1°50'	F230.120.150

F300

FRESE IN METALLO DURO Z3 45°

SOLID CARBIDE END MILLS Z3 45°



RBW

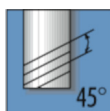
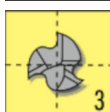
ALU

NE

MAT.
PLASTICI

LAPPATE

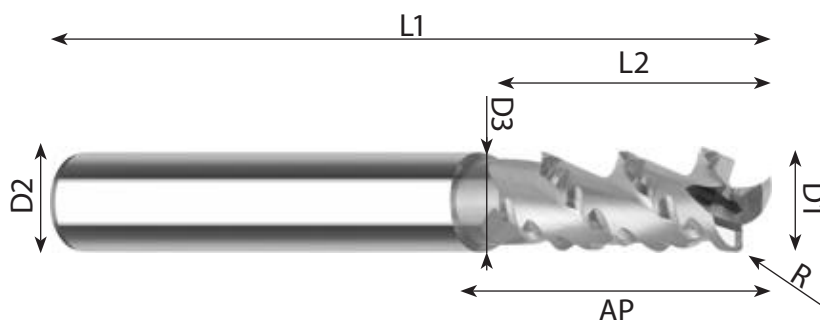
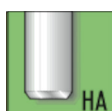
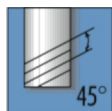
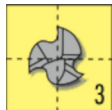
HSC

SERIE
LUNGA

D1	D2	D3	L1	L2	AP	Z	SM	Articolo
3	6	2,9	57	12	16	3	0,1	F300.030.00
4	6	3,9	57	12	18	3	0,1	F300.040.00
5	6	4,9	57	15	18	3	0,1	F300.050.00
6	6	5,8	57	15	21	3	0,1	F300.060.00
8	8	7,8	64	22	28	3	0,1	F300.080.00
10	10	9,7	73	25	33	3	0,2	F300.100.00
12	12	11,7	84	28	39	3	0,2	F300.120.00
14	14	13,7	89	32	42	3	0,2	F300.140.00
16	16	15,7	93	35	45	3	0,2	F300.160.00
20	20	19,5	104	41	52	3	0,2	F300.200.00

**F300**

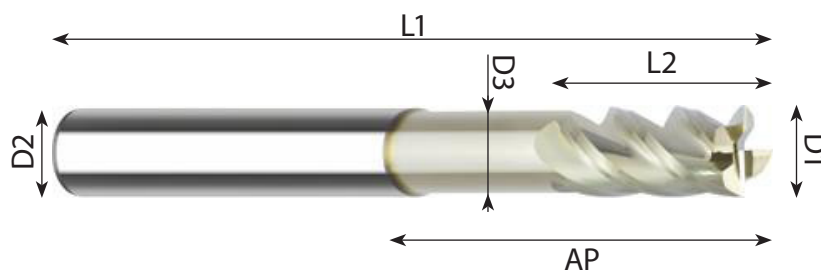
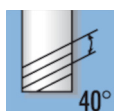
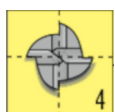
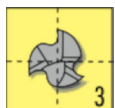
FRESE IN METALLO DURO PER SGROSSATURA Z3 **SOLID CARBIDE END MILLS FOR ROUGHING Z3**


LAPPATE
ALU
HSC


D1	D2	D3	L1	L2	AP	Z	R	Articolo
6	6	4,7	60	16	25	3	0,4	F301.060.00
8	8	6,3	78	25	33	3	0,5	F301.080.00
10	10	8,2	78	28	35	3	0,6	F301.100.00
12	12	10,2	89	32	40	3	0,8	F301.120.00
14	14	12	89	32	40	3	1	F301.140.00
16	16	14	96	36	45	3	1	F301.160.00
20	20	17,5	111	45	60	3	1,2	F301.200.00
25	25	21,8	121	50	65	3	1,5	F301.250.00

F302

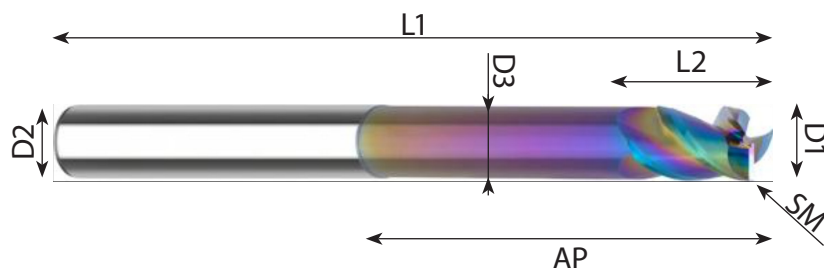
FRESE IN METALLO DURO Z3/4 SOLID CARBIDE END MILLS Z3/4

**ZrN****NE****ALU****LAPPATE****HSC**

D1	D2	D3	L1	L2	AP	Z	Articolo
3	6	2,7	70	8	20	3	F302.306.20
4	6	3,7	70	11	25	3	F302.406.25
5	6	4,7	70	13	30	3	F302.506.30
6	6	5,7	70	13	30	3	F302.600.30
8	8	7,4	80	20	35	3	F302.800.35
10	10	9,2	90	22	45	3	F302.100.45
12	12	11	100	26	55	4	F302.120.55
16	16	15	115	36	65	4	F302.160.65
20	20	19	125	41	75	4	F302.200.75

**F302**

FRESE IN METALLO DURO PER ALLUMINIO ELICA 45° A 3 TAGLI SOLID CARBIDE END MILLS Z3 FLUTE 45°

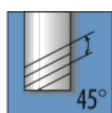
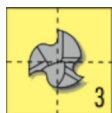


RBW

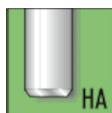
LAPPATE

ALU

HSC



SERIE
LUNGA

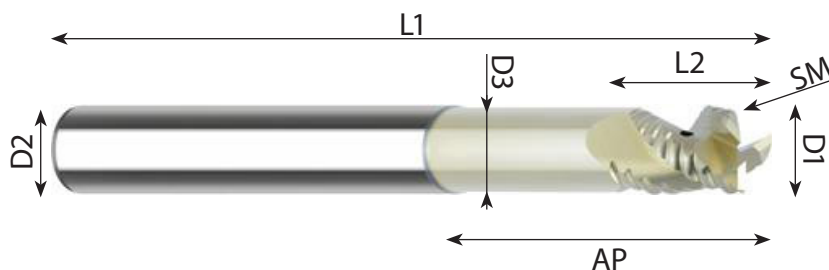


D1	D2	D3	L1	L2	AP	Z	SM	Articolo
1	4	0,9	50	3	8	3	0,05	F303.010.00
1,5	4	1,4	50	5	13	3	0,05	F303.015.00
1,8	4	1,7	50	5	13	3	0,05	F303.018.00
2	4	1,9	50	6	15	3	0,05	F303.020.00
3	6	2,9	80	6,5	20	3	0,05	F303.030.00
4	6	3,9	80	6,5	24	3	0,1	F303.040.00
5	6	4,9	80	8	30	3	0,1	F303.050.00
6	6	5,8	80	10	42	3	0,2	F303.060.00
8	8	7,8	100	13	62	3	0,2	F303.080.00
10	10	9,7	100	16	58	3	0,2	F303.100.00
12	12	11,7	120	19	73	3	0,2	F303.120.00
16	16	15,7	150	25	92	3	0,2	F303.160.00
20	20	19,5	150	32	100	3	0,2	F303.200.00

F304



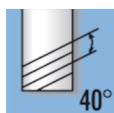
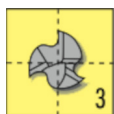
FRESE IN METALLO DURO PER ALLUMINIO ELICA 40° A 3 TAGLI SOLID CARBIDE END MILLS Z3 FLUTE 40°



ZrN

LAPPATE

ALU



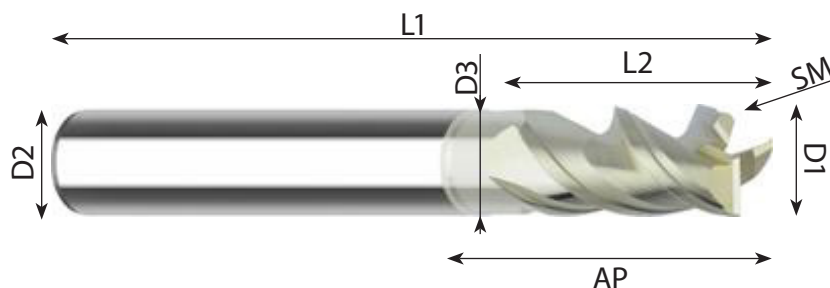
D1	D2	D3	L1	L2	AP	Z	SM	Articolo
6	6	5,5	63	10	24	3	0,3	F304.060.00
8	8	7,5	72	12	29	3	0,4	F304.080.00
10	10	9,5	83	14	35	3	0,5	F304.100.00
12	12	11,4	100	16	50	3	0,6	F304.120.00
16	16	15,2	115	20	63	3	0,8	F304.160.00
20	20	19	125	20	70	3	1	F304.200.00
25	25	23,75	135	25	75	3	1,25	F304.250.00



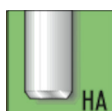
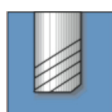
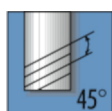
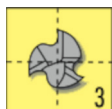
F304

FRESE IN METALLO DURO A 3 TAGLI CON SMUSSO

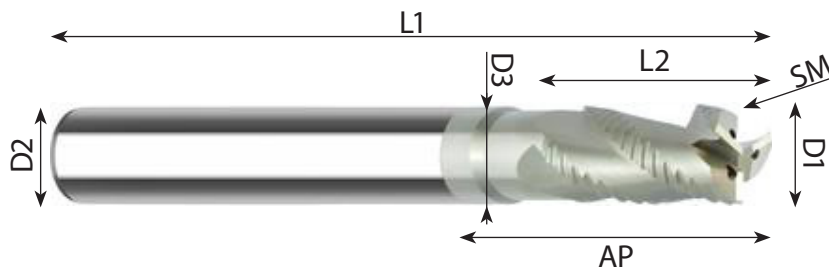
SOLID CARBIDE END MILLS 3 FLUTES WITH CHAMFER



	D1	D2	D3	L1	L2	AP	Z	SM	Articolo
ZrN	3	6	2,8	57	8	12	3	0,1	F305.030.00
ALU	4	6	3,8	57	11	18	3	0,1	F305.040.00
LAPPATE	5	6	4,8	57	13	18	3	0,1	F305.050.00
HSC	6	6	5,8	57	13	18	3	0,2	F305.060.00
	6	6	5,8	80	13	42	3	0,2	F305.061.00
	8	8	7,8	63	21	25	3	0,2	F305.080.00
	8	8	7,8	100	21	62	3	0,2	F305.081.00
	10	10	9,7	72	22	30	3	0,2	F305.100.00
	10	10	9,7	100	22	58	3	0,2	F305.101.00
	12	12	11,7	83	26	36	3	0,2	F305.120.00
	12	12	11,7	120	26	73	3	0,2	F305.121.00
	16	16	15,7	92	36	42	3	0,2	F305.160.00
	16	16	15,7	150	36	100	3	0,2	F305.161.00
	18	18	17,6	92	36	42	3	0,2	F305.180.00
	18	18	17,6	150	36	100	3	0,2	F305.181.00
	20	20	19,5	104	41	52	3	0,2	F305.200.00
	20	20	19,5	150	41	98	3	0,2	F305.201.00
	25	25	24,5	121	50	65	3	0,3	F305.250.00



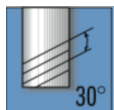
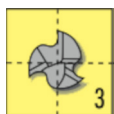
FRESE IN METALLO DURO DA SGROSSO A 3 TAGLI SOLID CARBIDE END MILLS FOR ROUGHING 3 FLUTES



ZrN

Universal

HSC

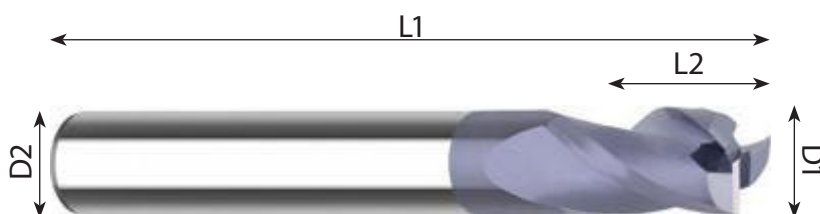


D1	D2	D3	L1	L2	AP	Z	SM	Articolo
6	6	5,7	70	13	18	3	0,4	F307.060.00
8	8	7,4	80	21	25	3	0,4	F307.080.00
10	10	9,2	80	22	30	3	0,4	F307.100.00
12	12	11	90	26	36	3	0,4	F307.120.00
16	16	15	100	36	42	3	0,4	F307.160.10
20	20	19	120	41	52	3	0,4	F307.200.10

DA Ø6 A Ø12 = HA
DA Ø16 A Ø20 = HB

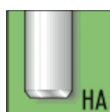
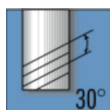
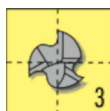
FROM Ø6 TO Ø12 = HA
FROM Ø16 TO Ø20 = HB

FRESE IN METALLO DURO SERIE MEDIA Z3 30° SOLID CARBIDE END MILLS 30° Z3 MEDIUM TYPE



TIALN

Universal

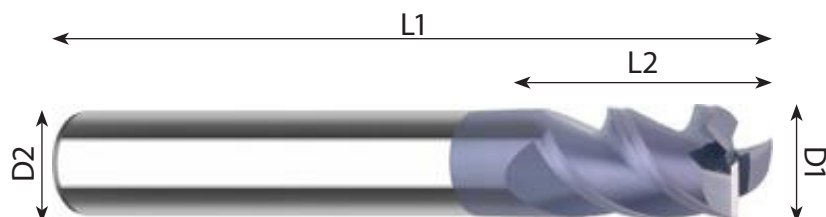


D1	D2	L1	L2	Z	Articolo
1	3	38	3	3	F308.010.00
1,5	3	38	5	3	F308.015.00
1,8	6	50	3	3	F308.018.00
2	3	38	7	3	F308.020.00
2,5	3	38	7	3	F308.025.00
2,8	6	50	4	3	F308.028.00
3	3	38	8	3	F308.030.00
3,5	4	50	11	3	F308.035.00
3,8	6	50	5	3	F308.038.00
4	4	50	11	3	F308.040.00
4,5	5	50	11	3	F308.045.00
4,8	6	50	6	3	F308.048.00
5	5	50	10	3	F308.050.00
5,5	6	50	10	3	F308.055.00
5,8	6	50	7	3	F308.058.00
6	6	57	10	3	F308.060.00
6,75	8	63	13	3	F308.067.00
7	8	63	13	3	F308.070.00
7,75	8	63	16	3	F308.077.00
8	8	63	16	3	F308.080.00
9	10	72	16	3	F308.090.00
9,7	10	72	19	3	F308.097.00
10	10	72	22	3	F308.100.00
11	12	72	22	3	F308.110.00
11,7	12	83	22	3	F308.117.00
12	12	83	22	3	F308.120.00
14	14	83	22	3	F308.140.00
16	16	83	26	3	F308.160.00
18	18	92	26	3	F308.180.00
20	20	104	32	3	F308.200.00

F310

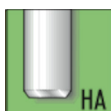
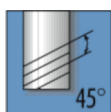
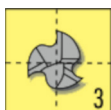


FRESE IN METALLO DURO SERIE MEDIA Z3 A 45° PER SEMIFINITURA SOLID CARBIDE END MILLS 45° Z3 MEDIUM TYPE FOR SEMIFINISHING



TIALN

Universal



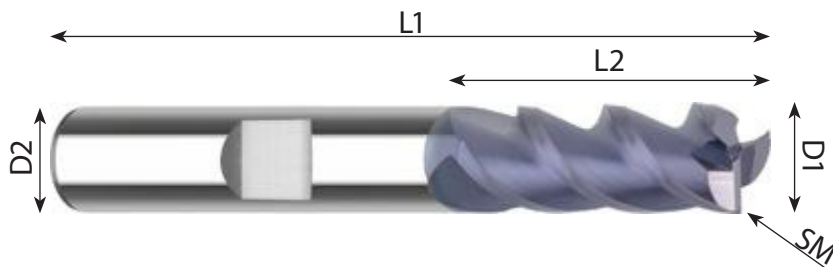
D1	D2	L1	L2	Z	Articolo
1	6	57	4	3	F310.010.00
1,5	6	57	4	3	F310.015.00
2	6	57	6	3	F310.020.00
2,5	6	57	6	3	F310.025.00
3	6	57	7	3	F310.030.00
3,5	6	57	8	3	F310.035.00
4	6	57	8	3	F310.040.00
4,5	6	57	10	3	F310.045.00
5	6	57	10	3	F310.050.00
5,5	6	57	10	3	F310.055.00
6	6	57	10	3	F310.060.00
6,5	8	63	16	3	F310.065.00
7	8	63	16	3	F310.070.00
7,5	8	63	19	3	F310.075.00
8	8	63	19	3	F310.080.00
9	10	72	19	3	F310.090.00
10	10	72	19	3	F310.100.00
12	12	83	22	3	F310.120.00
14	14	83	22	3	F310.140.00
16	16	92	26	3	F310.160.00
20	20	104	32	3	F310.200.00



F310

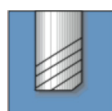
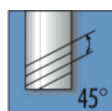
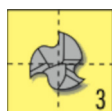
FRESE IN METALLO DURO SERIE LUNGA Z3 A 45° PER SEMIFINITURA

SOLID CARBIDE END MILLS 45° Z3 LONG TYPE FOR SEMIFINISHING



TIALN

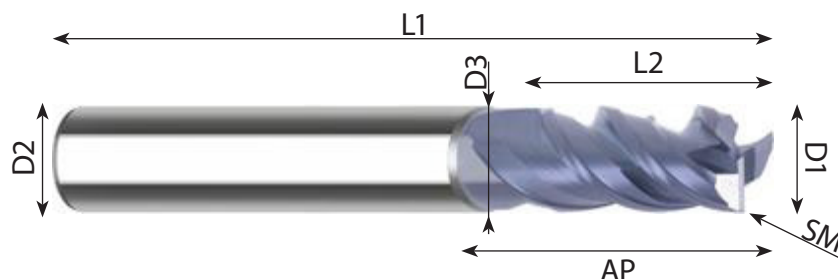
Universal



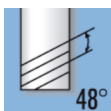
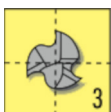
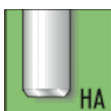
D1	D2	L1	L2	Z	SM	Articolo
2	6	57	8	3	0,05	F312.020.00
3	6	57	14	3	0,05	F312.030.00
4	6	57	18	3	0,1	F312.040.00
5	6	57	20	3	0,1	F312.050.00
6	6	57	22	3	0,1	F312.060.00
8	8	63	30	3	0,15	F312.080.00
10	10	72	33	3	0,15	F312.100.00
12	12	83	34	3	0,2	F312.120.00
16	16	92	38	3	0,2	F312.160.00
20	20	104	47	3	0,3	F312.200.00

F313

FRESE IN METALLO DURO SERIE LUNGA Z3 A 48°
SOLID CARBIDE END MILLS 48° Z3 LONG TYPE



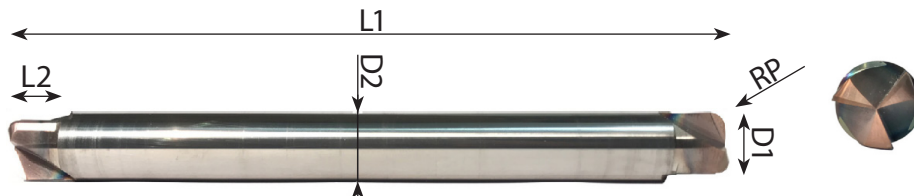
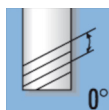
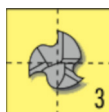
TIALN	D1	D2	D3	L1	L2	AP	Z	SM	Articolo
Universal	3	6	2,8	57	8	11	3	0,05	F313.030.00
	4	6	3,7	57	11	16	3	0,05	F313.040.00
	5	6	4,7	57	13	18	3	0,08	F313.050.00
INOX	6	6	5,6	57	13	18	3	0,08	F313.060.00
	7	8	6,5	63	16	24	3	0,08	F313.070.00
INCONEL TITAN	8	8	7,5	63	19	24	3	0,1	F313.080.00
	9	10	8,5	72	19	24	3	0,1	F313.090.00
	10	10	9,5	72	22	32	3	0,1	F313.100.00
ACCIAI < 1400 N/mm	12	12	11	83	26	36	3	0,15	F313.120.00
	16	16	15	92	32	42	3	0,2	F313.160.00
	20	20	19	104	38	50	3	0,2	F313.200.00

HSC**SERIE
LUNGA****F313**

**F315**

FRESE IN METALLO DURO AD ALTO AVANZAMENTO DOPPIE

DOUBLE HIGH FEED END MILLS IN SOLID CARBIDE

**TIALN****Universal****INCONEL
TITAN****A
SECCO****HRC
60****HSC**

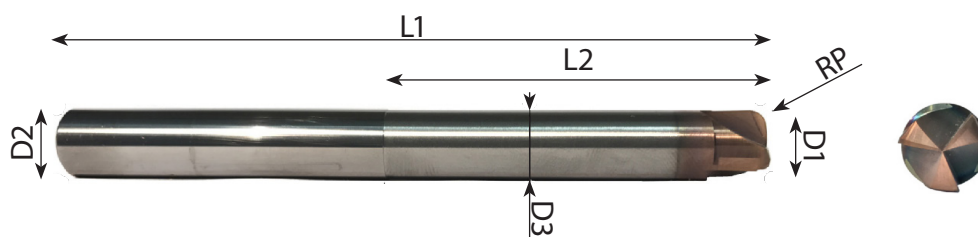
D1	D2	L1	L2	Z	RP	Articolo
3	3	60	6	2	0,75	F315.030
4	4	60	8	3	1	F315.040
6	6	80	8	3	1,5	F315.060
8	8	100	8	3	2	F315.080
10	10	100	8	3	2,5	F315.100

F315

F316



FRESE IN METALLO DURO AD ALTO AVANZAMENTO SCARICATA HIGH FEED END MILLS IN SOLID CARBIDE



TIALN

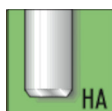
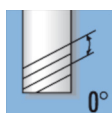
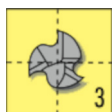
Universal

INCONEL
TITAN

A
SECCO

HRC
60

HSC



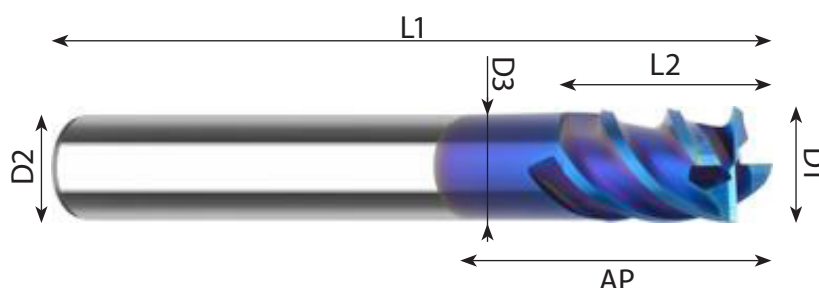
D1	D2	D3	L1	L2	Z	RP	Articolo
3	6	2,8	60	14	2	0,75	F316.030
4	6	3,8	60	20	3	1	F316.040
6	6	5,8	60	30	3	1,5	F316.060
8	8	7,8	75	40	3	2	F316.080
10	10	9,8	100	50	3	2,5	F316.100



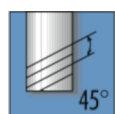
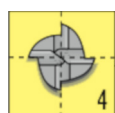
F316

FRESE IN METALLO DURO SERIE CORTA A 4 TAGLI

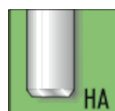
SOLID CARBIDE END MILLS 4 FLUTES SHORT TYPE



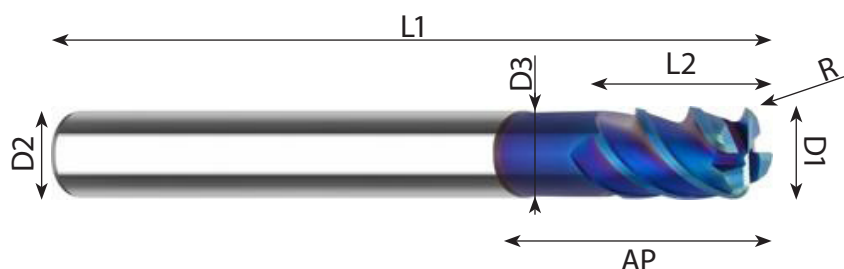
naco	D1	D2	D3	L1	L2	AP	Z	Articolo
LAPPATE	1	6	0,9	57	3	10	4	F400.010.00
	2	6	1,9	57	4	12	4	F400.020.00
	3	6	2,8	57	5	15	4	F400.030.00
A SECCO	4	6	3,6	57	6	21	4	F400.040.00
	5	6	4,6	57	7	21	4	F400.050.00
	6	6	5,5	57	10	21	4	F400.060.00
ACCIAI < 1400 N/mm	8	8	7,5	63	12	27	4	F400.080.00
	10	10	9,5	72	15	32	4	F400.100.00
	12	12	11,5	83	18	38	4	F400.120.00
HSC	16	16	15,5	92	24	42	4	F400.160.00



SERIE
CORTA



FRESE IN METALLO DURO TORICHE A 4 TAGLI SOLID CARBIDE END MILLS WITH CORNER RADIUS, 4 FLUTES

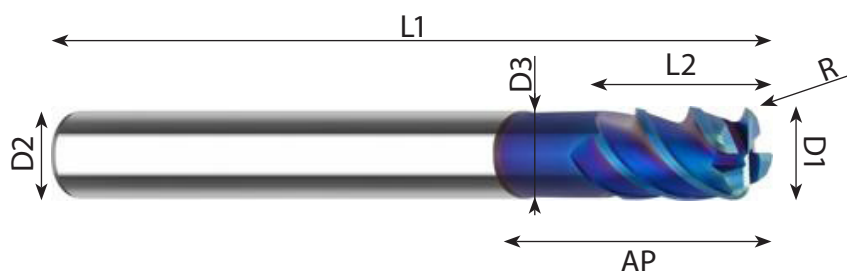


naco	D1	D2	D3	L1	L2	AP	Z	R	Articolo
LAPPATE	2	6	1,9	57	6	12	4	0,2	F401.026.02
	2	6	1,9	57	6	12	4	0,3	F401.026.03
	3	6	2,8	57	8	15	4	0,3	F401.036.03
A SECCO	3	6	2,8	57	8	15	4	0,5	F401.036.05
	4	6	3,6	57	11	21	4	0,2	F401.046.02
	4	6	3,6	57	11	21	4	0,3	F401.046.03
ACCIAI < 1400 N/mm	4	6	3,6	57	11	21	4	0,5	F401.046.05
	4	6	3,6	57	11	21	4	1	F401.046.10
	5	6	4,6	57	12	21	4	0,2	F401.056.02
HRC 60	5	6	4,6	57	12	21	4	0,5	F401.056.05
	5	6	4,6	57	12	21	4	1	F401.056.10
	6	6	5,5	57	12	21	4	0,1	F401.066.01
HSC	6	6	5,5	57	12	21	4	0,2	F401.066.02
	6	6	5,5	57	12	21	4	0,3	F401.066.03
	6	6	5,5	57	12	21	4	0,5	F401.066.05
	6	6	5,5	57	12	21	4	1	F401.066.10
	6	6	5,5	57	12	21	4	2	F401.066.20
	8	8	7,5	75	15	27	4	0,3	F401.088.03
	8	8	7,5	75	15	27	4	0,5	F401.088.05
	8	8	7,5	75	15	27	4	1	F401.088.10
	8	8	7,5	75	15	27	4	1,5	F401.088.15
	8	8	7,5	75	15	27	4	2	F401.088.20
	10	10	9,5	75	17	32	4	0,5	F401.100.05
	10	10	9,5	80	17	32	4	1	F401.100.10
	10	10	9,5	80	17	32	4	1,5	F401.100.15
	10	10	9,5	80	17	32	4	2	F401.100.20
	12	12	11,5	100	20	38	4	0,5	F401.120.05



FRESE IN METALLO DURO TORICHE A 4 TAGLI

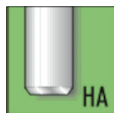
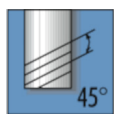
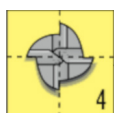
SOLID CARBIDE END MILLS WITH CORNER RADIUS, 4 FLUTES



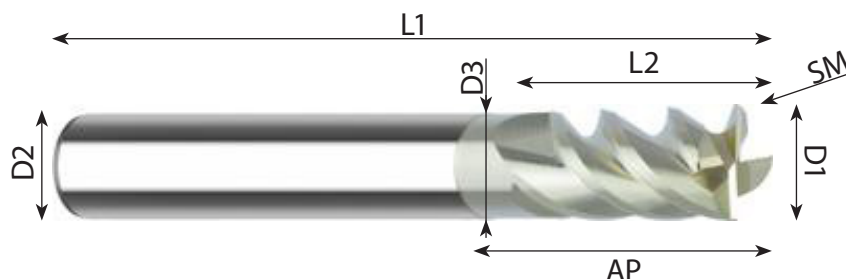
naco	D1	D2	D3	L1	L2	AP	Z	R	Articolo
LAPPATE	12	12	11,5	100	20	38	4	1	F401.120.10
	12	12	11,5	100	20	38	4	1,5	F401.120.15
	12	12	11,5	100	20	38	4	2	F401.120.20
A SECCO	16	16	15,5	110	25	42	4	1	F401.160.10
	16	16	15,5	110	25	42	4	1,5	F401.160.15
	16	16	15,5	110	25	42	4	2	F401.160.20
ACCIAI < 1400 N/mm	16	16	15,5	110	25	42	4	3	F401.160.25

HRC
60

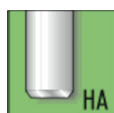
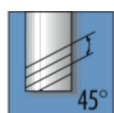
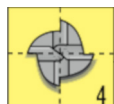
HSC



FRESE IN METALLO DURO A 4 TAGLI CON SMUSSO SOLID CARBIDE END MILLS 4 FLUTES WITH CHAMFER

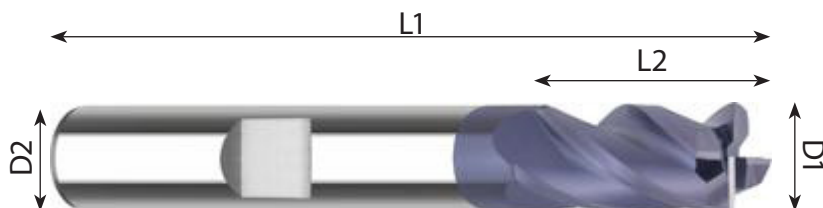


	D1	D2	D3	L1	L2	AP	Z	SM	Articolo
ZrN	3	6	2,8	57	8	12	4	0,1	F405.030.00
LAPPATE	4	6	3,8	57	11	18	4	0,1	F405.040.00
	5	6	4,8	57	13	18	4	0,1	F405.050.00
ALU	6	6	5,8	57	13	18	4	0,2	F405.060.00
	6	6	5,8	80	13	42	4	0,2	F405.061.00
	8	8	7,8	63	21	25	4	0,2	F405.080.00
HSC	8	8	7,8	100	21	62	4	0,2	F405.081.00
	10	10	9,7	72	22	30	4	0,2	F405.100.00
	10	10	9,7	100	22	58	4	0,2	F405.101.00
	12	12	11,7	83	26	36	4	0,2	F405.120.00
	12	12	11,7	120	26	73	4	0,2	F405.121.00
	16	16	15,7	92	36	42	4	0,2	F405.160.00
	16	16	15,7	150	36	100	4	0,2	F405.161.00
	20	20	19,5	104	41	52	4	0,2	F405.200.00
	20	20	19,5	150	41	98	4	0,2	F405.201.00
	25	25	24,5	121	50	65	4	0,3	F405.250.00



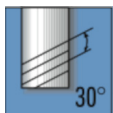
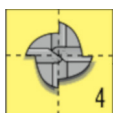
FRESE IN METALLO DURO SERIE MEDIA Z4 30°

SOLID CARBIDE END MILLS 30° Z4 MEDIUM TYPE



TIALN

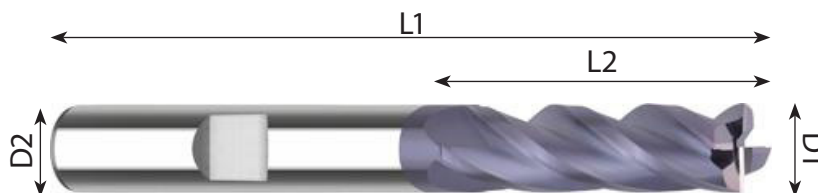
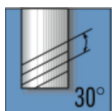
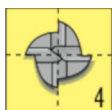
Universal



D1	D2	L1	L2	Z	Articolo
2	6	57	7	4	F407.020.00
3	6	57	8	4	F407.030.00
3,5	6	57	10	4	F407.035.00
4	6	57	11	4	F407.040.00
5	6	57	13	4	F407.050.00
6	6	57	13	4	F407.060.00
7	8	63	16	4	F407.070.00
8	8	63	19	4	F407.080.00
9	10	73	22	4	F407.090.00
10	10	72	22	4	F407.100.00
11	12	83	26	4	F407.110.00
12	12	83	26	4	F407.120.00
13	14	83	26	4	F407.130.00
14	14	83	26	4	F407.140.00
15	16	92	32	4	F407.150.00
16	16	92	32	4	F407.160.00
18	18	92	32	4	F407.180.00
20	20	104	38	4	F407.200.00

F409

FRESE IN METALLO DURO SERIE EXTRA LUNGA Z4 A 30°
SOLID CARBIDE END MILLS 30° Z4 EXTRA LONG TYPE

**TIALN****Universal****SERIE
EXTRA
LUNGA**

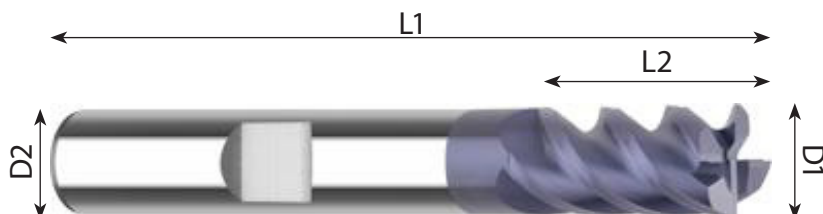
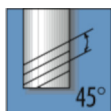
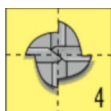
D1	D2	L1	L2	Z	Articolo
3	3	60	20	4	F409.030.00
4	4	60	25	4	F409.040.00
5	5	75	25	4	F409.050.00
6	6	75	30	4	F409.060.00
6	6	100	45	4	F409.060.02
8	8	100	45	4	F409.080.00
10	10	100	45	4	F409.100.00
12	12	100	45	4	F409.120.00
12	12	150	65	4	F409.120.02
14	14	100	45	4	F409.140.00
16	16	100	45	4	F409.160.00
16	16	150	65	4	F409.160.02
18	18	100	45	4	F409.180.00
18	18	150	65	4	F409.180.02
20	20	100	45	4	F409.200.00
20	20	150	65	4	F409.200.02

**F409**

**F410**

FRESE IN METALLO DURO SERIE LUNGA Z4 A 45° SEMIFINITURA

SOLID CARBIDE END MILLS 45° Z4 LONG TYPE FOR SEMIFINISHING

**TIALN****Universal****SERIE
LUNGA**

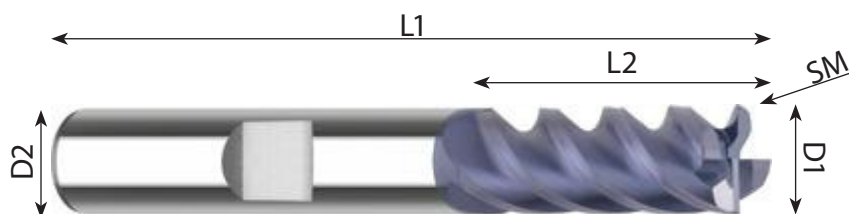
D1	D2	L1	L2	Z	Articolo
3	6	57	8	4	F410.030.00
4	6	57	11	4	F410.040.00
5	6	57	13	4	F410.050.00
6	6	57	13	4	F410.060.00
8	8	63	19	4	F410.080.00
10	10	72	22	4	F410.100.00
12	12	83	26	4	F410.120.00
14	14	83	26	4	F410.140.00
16	16	92	32	4	F410.160.00
18	18	92	32	4	F410.180.00
20	20	104	38	4	F410.200.00

F410

F411

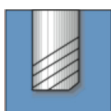
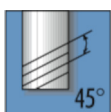
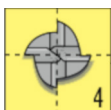


FRESE IN METALLO DURO Z4 A 45° PER SEMINIFINITURA SOLID CARBIDE END MILLS 45° Z4 FOR SEMIFINISHING



TIALN

Universal

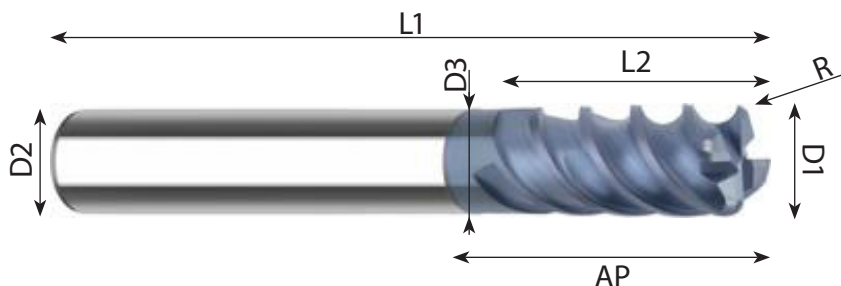


D1	D2	L1	L2	Z	SM	Articolo
2	6	57	8	4	0,05	F411.020.00
3	6	57	14	4	0,05	F411.030.00
4	6	57	18	4	0,1	F411.040.00
5	6	57	20	4	0,1	F411.050.00
6	6	57	22	4	0,1	F411.060.00
8	8	63	30	4	0,15	F411.080.00
10	10	72	33	4	0,15	F411.100.00
12	12	83	34	4	0,2	F411.120.00
16	16	92	38	4	0,2	F411.160.00
20	20	104	47	4	0,3	F411.200.00



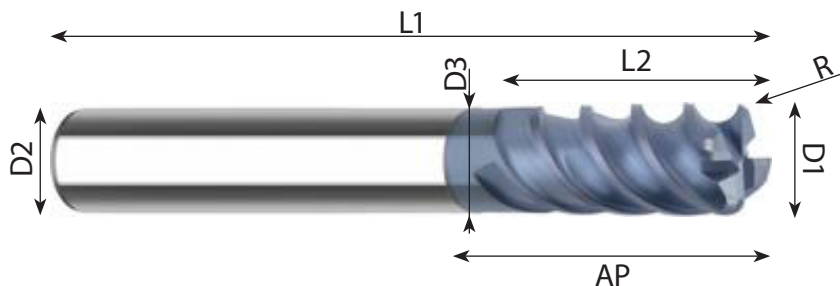
F411

FRESE IN METALLO DURO RAGGIATE SERIE CORTA A 3/4 TAGLI SOLID CARBIDE CORNER RADIUS MILLS 3/4 FLUTES



	D1	D2	D3	L1	L2	AP	Z	R	Articolo
ALTIN									
Universal	3	6	2,9	57	8	18	3	0,2	F412.030.02
	3	6	2,9	57	8	18	3	0,5	F412.030.05
	4	6	3,8	57	11	21	4	0,3	F412.040.03
ACCIAI < 1400 N/mm	4	6	3,8	57	11	21	4	0,5	F412.040.05
	4	6	3,8	57	11	21	4	1	F412.040.10
HRC 65	5	6	4,8	57	13	21	4	0,3	F412.050.03
	5	6	4,8	57	13	21	4	0,5	F412.050.05
	5	6	4,8	57	13	21	4	1	F412.050.10
HSC	6	6	5,8	57	14	21	4	0,3	F412.060.03
	6	6	5,8	57	14	21	4	0,5	F412.060.05
	6	6	5,8	57	14	21	4	1	F412.060.10
	6	6	5,8	57	14	21	4	1,5	F412.060.15
	6	6	5,8	57	14	21	4	2	F412.060.20
	8	8	7,8	63	20	27	4	0,5	F412.080.05
	8	8	7,8	63	20	27	4	1	F412.080.10
	8	8	7,8	63	20	27	4	1,5	F412.080.15
	8	8	7,8	63	20	27	4	2	F412.080.20
	10	10	9,8	72	24	32	4	0,5	F412.100.05
	10	10	9,8	72	24	32	4	1	F412.100.10
	10	10	9,8	72	24	32	4	1,5	F412.100.15
	10	10	9,8	72	24	32	4	2	F412.100.20
	12	12	11,8	83	28	38	4	0,5	F412.120.05
	12	12	11,8	83	28	38	4	1	F412.120.10
	2	12	11,8	83	28	38	4	1,5	F412.120.15
	12	12	11,8	83	28	38	4	2	F412.120.20
	16	16	15,8	92	34	44	4	0,5	F412.160.05
	16	16	15,8	92	34	44	4	1	F412.160.10
	16	16	15,8	92	34	44	4	1,5	F412.160.15
	16	16	15,8	92	34	44	4	2	F412.160.20
	16	16	15,8	150	34	44	4	1	F412.160.1L

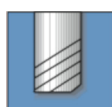
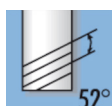
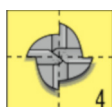
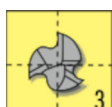
FRESE IN METALLO DURO RAGGIATE SERIE CORTA A 3/4 TAGLI SOLID CARBIDE CORNER RADIUS MILLS 3/4 FLUTES



ALTIN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
Universal	20	20	19,8	104	40	54	4	0,5	F412.200.05
	20	20	19,8	104	40	54	4	1	F412.200.10
	20	20	19,8	104	40	54	4	1,5	F412.200.15
ACCIAI < 1400 N/mm	20	20	19,8	104	40	54	4	2	F412.200.20
	20	20	19,8	150	40	54	4	1	F412.200.1L
	25	25	24,8	160	40	54	4	2	F412.250.20

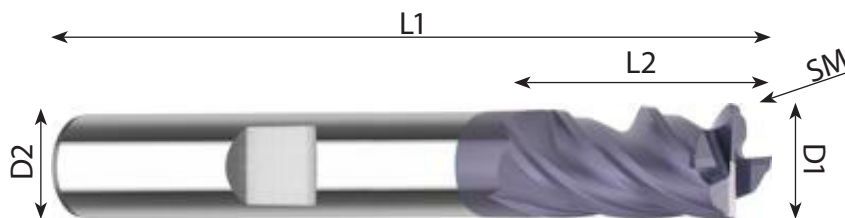
HRC
65

HSC



FRESE IN METALLO DURO A DIVISIONE IRREGOLARE SERIE LUNGA Z4

SOLID CARBIDE END MILLS WITH IRREGULAR DIVISION Z4 LONG TYPE

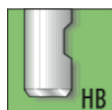
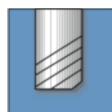
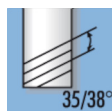
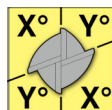


TIALN

Universal

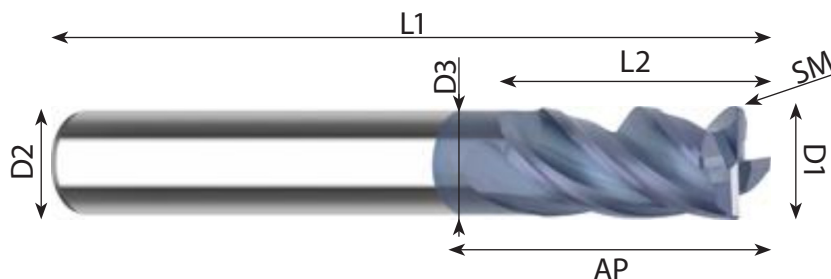
ACCIAI
< 1400 N/mm

HPC



D1	D2	L1	L2	Z	SM	Articolo
3	6	57	8	4	0,1	F413.030.00
4	6	57	11	4	0,13	F413.040.00
5	6	57	13	4	0,18	F413.050.00
6	6	57	13	4	0,2	F413.060.00
7	8	63	19	4	0,2	F413.070.00
8	8	63	19	4	0,2	F413.080.00
9	10	72	22	4	0,3	F413.090.00
10	10	72	22	4	0,3	F413.100.00
11	12	83	26	4	0,3	F413.110.00
12	12	83	26	4	0,3	F413.120.00
13	14	83	26	4	0,3	F413.130.00
14	14	83	26	4	0,3	F413.140.00
16	16	92	32	4	0,4	F413.160.00
18	18	92	32	4	0,4	F413.180.00
20	20	104	38	4	0,5	F413.200.00
25	25	104	38	4	0,5	F413.250.00

FRESE IN METALLO DURO A DIVISIONE IRREGOLARE PER INOX SOLID CARBIDE END MILLS WITH IRREGULAR DIVISION FOR INOX



D1	D2	D3	L1	L2	AP	Z	SM	Articolo
3	6	2,75	57	8	18	4	0,1	F414.030.00
4	6	3,5	57	11	21	4	0,13	F414.040.00
5	6	4,5	57	13	21	4	0,2	F414.050.00
6	6	5,5	57	13	21	4	0,2	F414.060.00
7	8	6,5	63	16	24	4	0,2	F414.070.00
8	8	7,5	63	19	27	4	0,2	F414.080.00
9	10	8,5	72	20	29	4	0,2	F414.090.00
10	10	9,5	72	22	32	4	0,2	F414.100.00
11	12	10,5	83	24	35	4	0,3	F414.110.00
12	12	11,5	83	26	38	4	0,3	F414.120.00
13	14	12,5	83	28	40	4	0,3	F414.130.00
14	14	13,5	83	30	42	4	0,3	F414.140.00
16	16	15,5	92	32	44	4	0,3	F414.160.00
20	20	19,5	104	38	54	4	0,4	F414.200.00

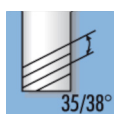
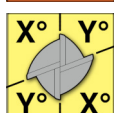
VAROCON

Universal

INCONEL
TITAN

INOX

HPC



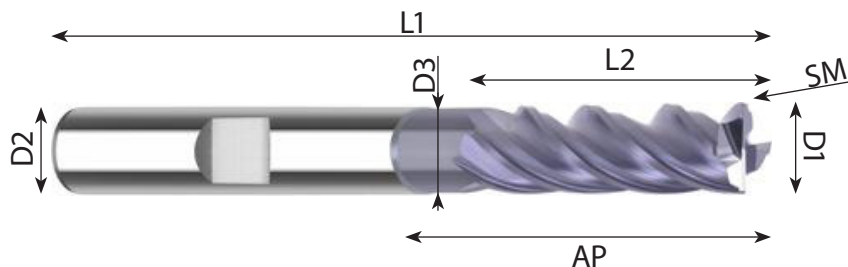
SERIE
LUNGA



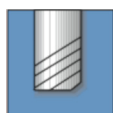
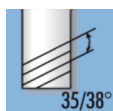
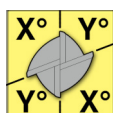
**F415**

FRESE IN METALLO DURO A DIVISIONE IRREGOLARE PER INOX SERIE EXTRA LUNGA

SOLID CARBIDE END MILLS WITH IRREGULAR DIVISION FOR INOX EXTRA LONG TYPE



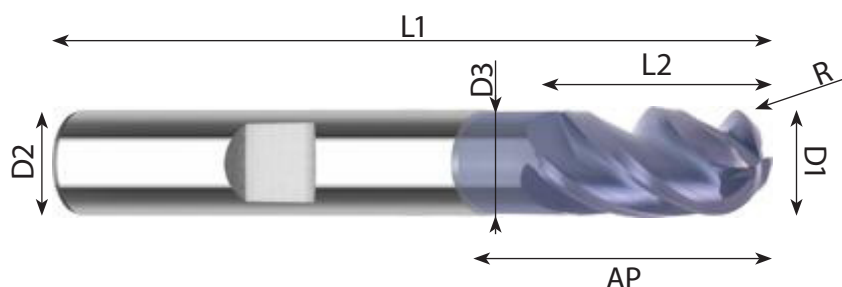
TIALN	D1	D2	D3	L1	L2	AP	Z	SM	Articolo
INOX	5	6	4,7	63	21	27	4	0,18	F415.050.00
	6	6	5,5	63	22	27	4	0,2	F415.060.00
	8	8	7,5	80	28	40	4	0,2	F415.080.00
INCONEL TITAN	10	10	9,5	100	33	55	4	0,3	F415.100.00
	12	12	11	100	42	55	4	0,3	F415.120.00
Universal	14	14	13	100	48	60	4	0,3	F415.140.00
	16	16	15	150	53	67	4	0,4	F415.160.00
	20	20	19	150	68	85	4	0,5	F415.200.00
HPC	25	25	24	165	85	100	4	0,5	F415.250.00



SERIE
EXTRA
LUNGA

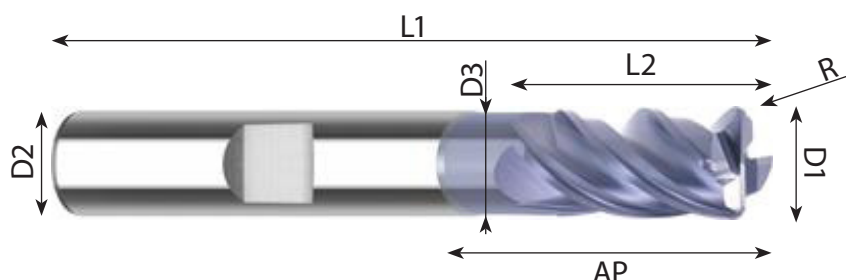
**F415**

FRESE IN METALLO DURO RAGGIATE A DIVISIONE IRREGOLARE SOLID CARBIDE BALL NOSE END MILLS WITH IRREGULAR DIVISION



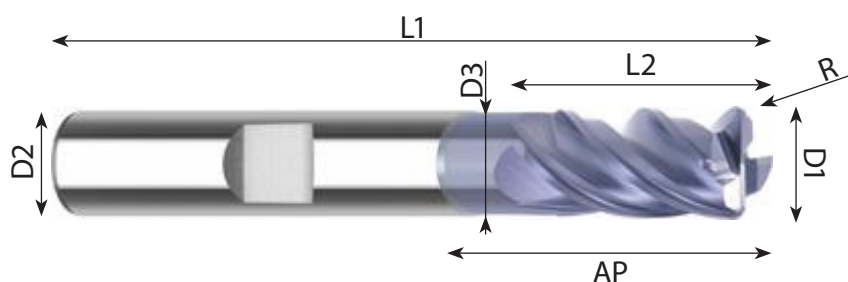
TIALN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
Universal	3	6	2,8	57	8	18	4	1,5	F416.030.00
	4	6	3,7	57	10	21	4	2	F416.040.00
	5	6	4,7	57	13	21	4	2,5	F416.050.00
X° Y° Y° X°	6	6	5,5	57	13	21	4	3	F416.060.00
	8	8	7,5	63	16	27	4	4	F416.080.00
35/38°	10	10	9,5	72	22	32	4	5	F416.100.00
	12	12	11	83	26	38	4	6	F416.120.00
	14	14	13	83	26	38	4	7	F416.140.00
	16	16	15	92	32	44	4	8	F416.160.00
HB	20	20	19	104	38	54	4	10	F416.200.00

FRESE IN METALLO DURO A DIVISIONE IRREGOLARE TORICHE Z4 SOLID CARBIDE END MILLS WITH IRREGULAR DIVISION Z4 AND CORNER RADIUS

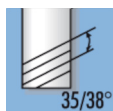


TIALN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
Universal	4	6	3,7	57	11	21	4	0,25	F418.040.02
	4	6	3,7	57	11	21	4	0,5	F418.040.05
	4	6	3,7	57	11	21	4	1	F418.040.10
ACCIAI <1400 N/mm	5	6	4,7	57	13	21	4	0,5	F418.050.05
	5	6	4,7	57	13	21	4	1	F418.050.10
	5	6	4,7	57	13	21	4	1,5	F418.050.15
	6	6	5,5	57	13	21	4	0,5	F418.060.05
	6	6	5,5	57	13	21	4	1	F418.060.10
	6	6	5,5	57	13	21	4	1,5	F418.060.15
	6	6	5,5	57	13	21	4	2	F418.060.20
	8	8	7,5	63	19	27	4	0,5	F418.080.05
	8	8	7,5	63	19	27	4	1	F418.080.10
	8	8	7,5	63	19	27	4	1,5	F418.080.15
	8	8	7,5	63	19	27	4	2	F418.080.20
	10	10	9,5	72	22	32	4	0,5	F418.100.05
	10	10	9,5	72	22	32	4	1	F418.100.10
	10	10	9,5	72	22	32	4	1,5	F418.100.15
	10	10	9,5	72	22	32	4	2	F418.100.20
	12	12	11	83	26	38	4	0,5	F418.120.05
	12	12	11	83	26	38	4	1	F418.120.10
	12	12	11	83	26	38	4	1,5	F418.120.15
	12	12	11	83	26	38	4	2	F418.120.20
	14	14	13	83	26	38	4	1	F418.140.10
	4	14	13	83	26	38	4	2	F418.140.20
	16	16	15	92	32	44	4	1	F418.160.10
	16	16	15	92	32	44	4	1,5	F418.160.15
	16	16	15	92	32	44	4	2	F418.160.20
	16	16	15	92	32	44	4	2,5	F418.160.25

FRESE IN METALLO DURO A DIVISIONE IRREGOLARE TORICHE Z4 SOLID CARBIDE END MILLS WITH IRREGULAR DIVISION Z4 AND CORNER RADIUS

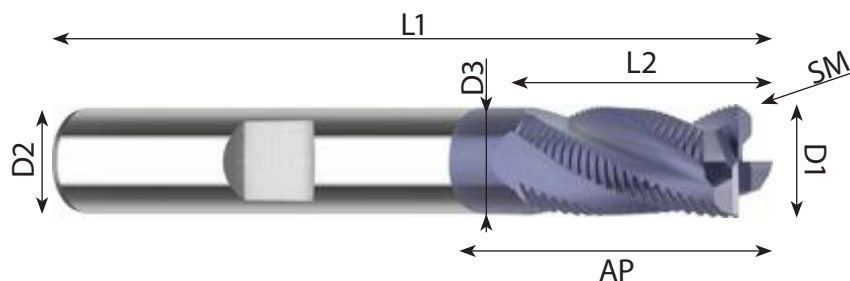


TIALN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
Universal	18	18	17	92	32	44	4	1,5	F418.180.15
	18	18	17	92	32	44	4	2,5	F418.180.25
	20	20	19	104	38	54	4	1	F418.200.10
ACCIAI < 1400 N/mm	20	20	19	104	38	54	4	1,5	F418.200.15
	20	20	19	104	38	54	4	2	F418.200.20
	20	20	19	104	38	54	4	2,5	F418.200.25
X° Y° Y° X°	20	20	19	104	38	54	4	3	F418.200.30
	20	20	19	104	38	54	4	4	F418.200.40
	20	20	19	104	38	54	4	5	F418.200.50



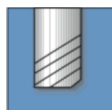
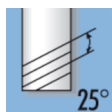
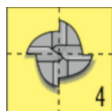
FRESE IN METALLO DURO PER SGROSSATURA SERIE MEDIA Z4 A 25°

SOLID CARBIDE END MILLS 25° Z4 ROUGHING MEDIUM TYPE



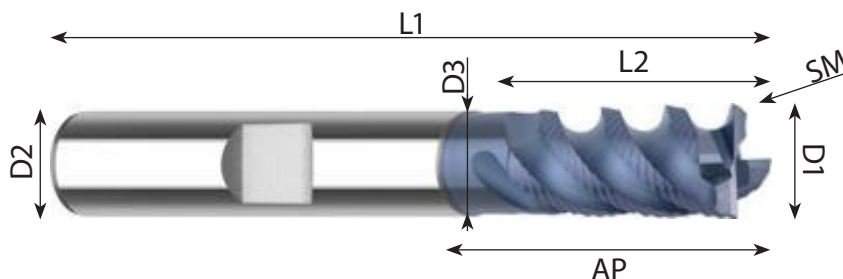
TIALN

Universal



D1	D2	L1	L2	Z	SM	Articolo
3	6	57	6	4	0,1	F419.030.00
4	6	57	8	4	0,13	F419.040.00
5	6	57	10	4	0,18	F419.050.00
6	6	57	13	4	0,2	F419.060.00
8	8	63	16	4	0,2	F419.080.00
10	10	72	22	4	0,3	F419.100.00
12	12	83	26	4	0,3	F419.120.00
14	14	83	26	4	0,4	F419.140.00
16	16	92	32	4	0,4	F419.160.00
18	18	92	32	4	0,5	F419.180.00
20	20	104	38	4	0,5	F419.200.00
25	25	121	45	4	0,6	F419.250.00

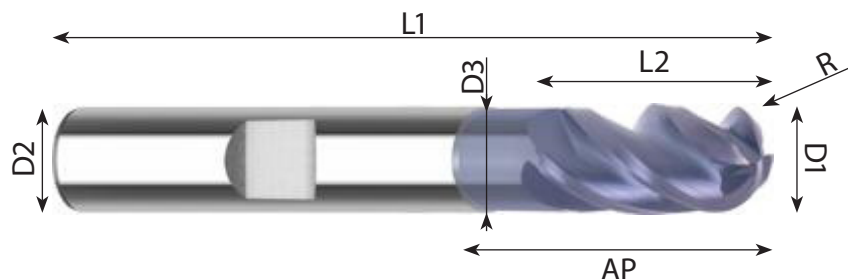
FRESE IN METALLO DURO PER SGROSSATURA SERIE MEDIA Z3/6 A 45° SOLID CARBIDE END MILLS 45° Z3/6 ROUGHING MEDIUM TYPE



TIALN	D1	D2	D3	L1	L2	AP	Z	SM	Articolo
INOX	4	6	3,8	57	11	18	3	0,15	F420.040.00
	5	6	4,7	57	13	20	4	0,15	F420.050.00
	6	6	5,5	57	16	20	4	0,15	F420.060.00
INCONEL TITAN	7	8	6,5	63	16	25	4	0,15	F420.070.00
	8	8	7,5	63	16	26	4	0,15	F420.080.00
X° Y° Y° X°	9	10	8,5	72	19	30	4	0,2	F420.090.00
	10	10	9,5	72	22	31	4	0,2	F420.100.00
45°	12	12	11,5	83	26	37	4	0,2	F420.120.00
	14	14	13,5	83	26	42	5	0,2	F420.140.00
	16	16	15,5	100	32	51	5	0,25	F420.160.00
	20	20	19,2	110	38	59	6	0,25	F420.200.00
SERIE CORTA	25	25	24	121	45	65	6	0,3	F420.250.00
HB									

FRESE IN METALLO DURO SERIE LUNGA Z4 RAGGIATE

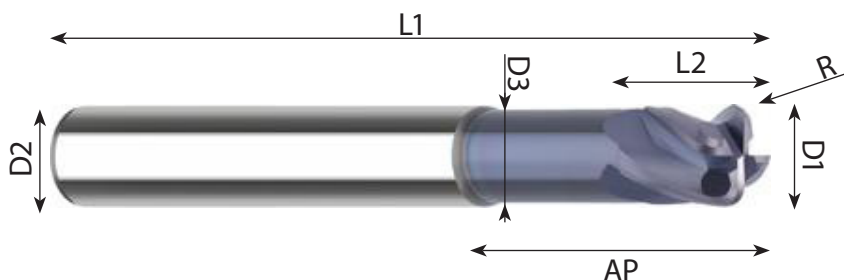
SOLID CARBIDE END MILLS Z4 BALL NOSE LONG TYPE



TIALN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
Universal	3	6	2,8	57	8	18	4	1,5	F421.030.00
	4	6	3,7	57	10	21	4	2	F421.040.00
	5	6	4,7	57	13	21	4	2,5	F421.050.00
	6	6	5,5	57	13	21	4	3	F421.060.00
 SERIE LUNGA	8	8	7,5	63	16	27	4	4	F421.080.00
	10	10	9,5	72	22	32	4	5	F421.100.00
	12	12	11	83	26	38	4	6	F421.120.00
	14	14	13	83	26	38	4	7	F421.140.00
	16	16	15	92	32	44	4	8	F421.160.00
	20	20	19	104	38	54	4	10	F421.200.00

FRESE IN METALLO DURO SERIE MEDIA Z4 30° TORICA

SOLID CARBIDE END MILLS MEDIUM TYPE 30° Z4 CORNER RADIUS

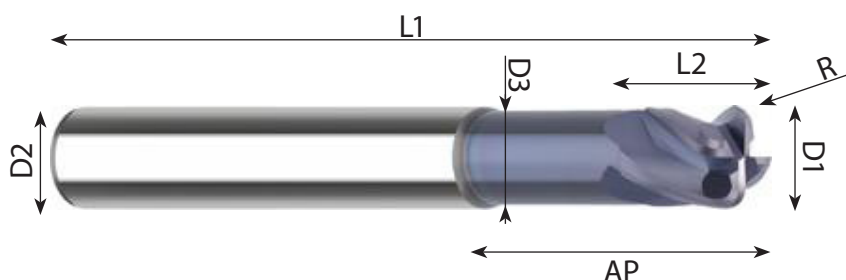


TIALN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
A SECCO	2	6	1,8	57	4	21	4	0,1	F423.020.01
	2	6	1,8	57	4	21	4	0,2	F423.020.02
	2	6	1,8	57	4	21	4	0,3	F423.020.03
ACCIAI < 1400 N/mm	2	6	1,8	57	4	21	4	0,4	F423.020.04
	2	6	1,8	57	4	21	4	0,5	F423.020.05
	3	6	2,8	57	6	21	4	0,1	F423.030.01
HRC 65	3	6	2,8	57	6	21	4	0,2	F423.030.02
	3	6	2,8	57	6	21	4	0,3	F423.030.03
	3	6	2,8	57	6	21	4	0,4	F423.030.04
	3	6	2,8	57	6	21	4	0,5	F423.030.05
	3	6	2,8	57	6	21	4	1	F423.030.10
	4	6	3,6	57	6	21	4	0,1	F423.040.01
	4	6	3,6	57	6	21	4	0,2	F423.040.02
	4	6	3,6	57	6	21	4	0,3	F423.040.03
	4	6	3,6	57	6	21	4	0,4	F423.040.04
	4	6	3,6	57	6	21	4	0,5	F423.040.05
	4	6	3,6	57	6	21	4	0,6	F423.040.06
	4	6	3,6	57	6	21	4	0,7	F423.040.07
	4	6	3,6	57	6	21	4	0,8	F423.040.08
	4	6	3,6	57	6	21	4	1	F423.040.10
	4	6	3,6	57	6	21	4	1,5	F423.040.15
	5	6	4,6	57	6	21	4	0,1	F423.050.01
	5	6	4,6	57	6	21	4	0,2	F423.050.02
	5	6	4,6	57	6	21	4	0,3	F423.050.03
	5	6	4,6	57	6	21	4	0,4	F423.050.04
	5	6	4,6	57	6	21	4	0,5	F423.050.05
	5	6	4,6	57	6	21	4	1	F423.050.10
	5	6	4,6	57	6	21	4	1,5	F423.050.15
	5	6	4,6	57	6	21	4	2	F423.050.20



FRESE IN METALLO DURO SERIE MEDIA Z4 30° TORICA

SOLID CARBIDE END MILLS MEDIUM TYPE 30° Z4 CORNER RADIUS



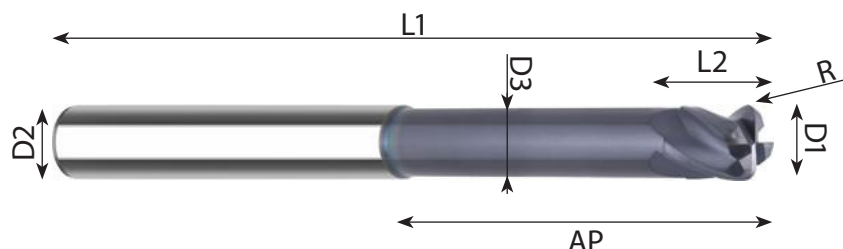
TIALN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
A SECCO	6	6	5,5	57	7	21	4	0,1	F423.060.01
	6	6	5,5	57	7	21	4	0,2	F423.060.02
	6	6	5,5	57	7	21	4	0,3	F423.060.03
ACCIAI < 1400 N/mm	6	6	5,5	57	7	21	4	0,4	F423.060.04
	6	6	5,5	57	7	21	4	0,5	F423.060.05
	6	6	5,5	57	7	21	4	0,6	F423.060.06
HRC 65	6	6	5,5	57	7	21	4	0,8	F423.060.08
	6	6	5,5	57	7	21	4	1	F423.060.10
	6	6	5,5	57	7	21	4	1,2	F423.060.12
	6	6	5,5	57	7	21	4	1,5	F423.060.15
	6	6	5,5	57	7	21	4	2	F423.060.20
	6	6	5,5	57	7	21	4	2,5	F423.060.25
	8	8	7,4	63	9	27	4	0,1	F423.080.01
	8	8	7,4	63	9	27	4	0,3	F423.080.03
	8	8	7,4	63	9	27	4	0,5	F423.080.05
	8	8	7,4	63	9	27	4	1	F423.080.10
	8	8	7,4	63	9	27	4	1,5	F423.080.15
	8	8	7,4	63	9	27	4	2	F423.080.20
	10	10	9,2	72	11	32	4	0,5	F423.100.05
	10	10	9,2	72	11	32	4	1	F423.100.10
	10	10	9,2	72	11	32	4	1,5	F423.100.15
	10	10	9,2	72	11	32	4	2	F423.100.20
	12	12	11	83	12	38	4	0,5	F423.120.05
	12	12	11	83	12	38	4	1	F423.120.10
	12	12	11	83	12	38	4	1,5	F423.120.15
	12	12	11	83	12	38	4	2	F423.120.20
	16	16	15	92	16	44	4	0,5	F423.160.05
	16	16	15	92	16	44	4	1	F423.160.10
	16	16	15	92	16	44	4	2	F423.160.20

F424



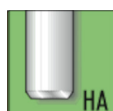
FRESE IN METALLO DURO SERIE EXTRA LUNGA Z4 30° TORICA

SOLID CARBIDE END MILLS EXTRA LONG TYPE 30° Z4 CORNER RADIUS



TIALN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
A SECCO	6	6	5,5	80	7	44	4	0,1	F424.060.01
	6	6	5,5	80	7	44	4	0,2	F424.060.02
	6	6	5,5	80	7	44	4	0,3	F424.060.03
	6	6	5,5	80	7	44	4	0,4	F424.060.04
	6	6	5,5	80	7	44	4	0,5	F424.060.05
ACCAI < 1400 N/mm	6	6	5,5	80	7	44	4	0,6	F424.060.06
	6	6	5,5	80	7	44	4	1	F424.060.10
	6	6	5,5	80	7	44	4	1,5	F424.060.15
INOX	6	6	5,5	80	7	44	4	2	F424.060.20
	8	8	7,4	100	9	54	4	0,5	F424.080.05
	8	8	7,4	100	9	54	4	1	F424.080.10
HRC 65	8	8	7,4	100	9	54	4	1,5	F424.080.15
	8	8	7,4	100	9	54	4	2	F424.080.20
	10	10	9,2	100	11	60	4	1	F424.100.10
HSC	10	10	9,2	100	11	60	4	1,5	F424.100.15
	10	10	9,2	100	11	60	4	2	F424.100.20
	12	12	11	120	12	75	4	0,5	F424.120.05
	12	12	11	120	12	75	4	1	F424.120.10
	12	12	11	120	12	75	4	1,5	F424.120.15
	12	12	11	120	12	75	4	2	F424.120.20
	16	16	15	150	16	92	4	2	F424.160.20

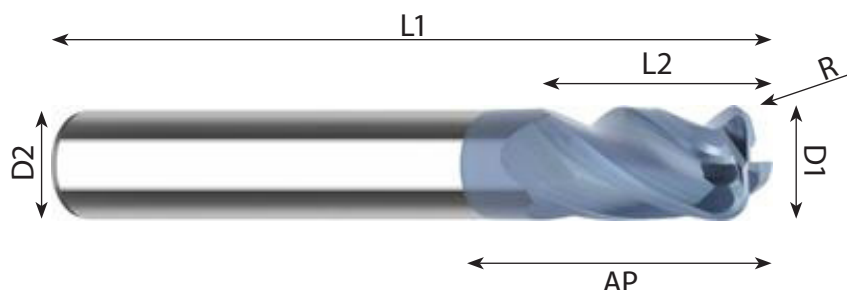
SERIE
EXTRA
LUNGA



F424

FRESE IN METALLO DURO LUNGHE 4 ELICHE

SOLID CARBIDE END MILLS CORNER RADIUS 4 FLUTES



ALTIN

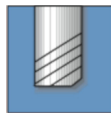
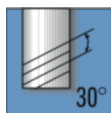
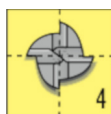
A
SECCO

ACCIAI
< 1400 N/mm

INOX

HRC
65

HPC



SERIE
LUNGA

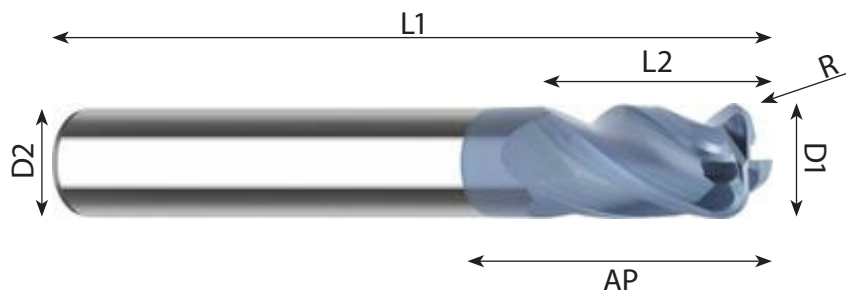


D1	D2	L1	L2	Z	R	Articolo
3	3	50	6	4	0,3	F425.030.03
3	3	50	6	4	0,5	F425.030.05
4	4	60	8	4	0,3	F425.040.03
4	4	60	8	4	0,5	F425.040.05
4	4	60	8	4	1	F425.040.10
5	5	60	10	4	0,3	F425.050.03
5	5	60	10	4	0,5	F425.050.05
5	5	60	10	4	1	F425.050.10
6	6	70	12	4	0,3	F425.060.03
6	6	70	12	4	0,5	F425.060.05
6	6	70	12	4	1	F425.060.10
6	6	70	12	4	1,5	F425.060.15
6	6	70	12	4	2	F425.060.20
8	8	70	16	4	0,3	F425.080.03
8	8	70	16	4	0,5	F425.080.05
8	8	70	16	4	1	F425.080.10
8	8	70	16	4	1,5	F425.080.15
8	8	70	16	4	2	F425.080.20
8	8	70	16	4	2,5	F425.080.25
8	8	70	16	4	3	F425.080.30
10	10	70	20	4	0,3	F425.100.03
10	10	70	20	4	0,5	F425.100.05
10	10	70	20	4	1	F425.100.10
10	10	70	20	4	2	F425.100.20
10	10	70	20	4	2,5	F425.100.25
10	10	70	20	4	3	F425.100.30

F425



FRESE IN METALLO DURO LUNGHE 4 ELICHE SOLID CARBIDE END MILLS CORNER RADIUS 4 FLUTES



ALTIN

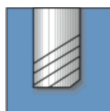
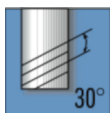
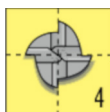
A
SECCO

ACCIAI
< 1400 N/mm

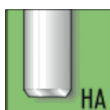
INOX

HRC
65

HPC



SERIE
LUNGA

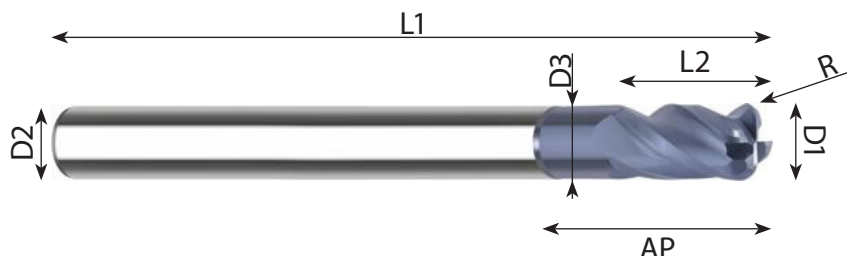


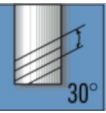
D1	D2	L1	L2	Z	R	Articolo
12	12	80	24	4	0,3	F425.120.03
12	12	80	24	4	0,5	F425.120.05
12	12	80	24	4	1	F425.120.10
12	12	80	24	4	2	F425.120.20
12	12	80	24	4	3	F425.120.30
16	16	90	32	4	1	F425.160.10
16	16	90	32	4	2	F425.160.20
16	16	90	32	4	3	F425.160.30
20	20	120	40	4	1	F425.200.10
20	20	120	40	4	3	F425.200.30



F425

FRESE IN METALLO DURO TORICHE EXTRA LUNGHE A 4 ELICHE SOLID CARBIDE CORNER RADIUS END MILLS EXTRA LONG 4 FLUTES

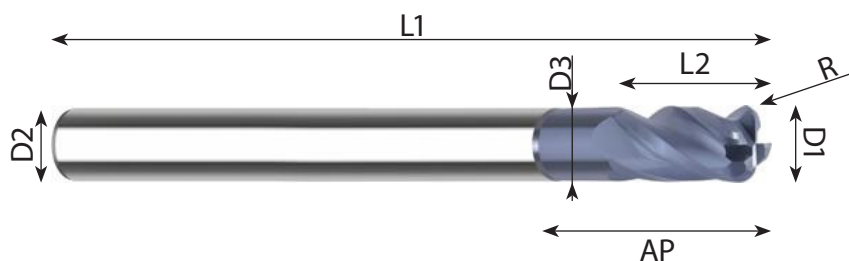


ALTIN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
INOX	0	3	2,8	70	6	11	4	0,3	F426.030.03
	3	3	2,8	70	6	11	4	0,5	F426.030.05
	4	4	3,7	80	8	14	4	0,3	F426.040.03
A SECCO	4	4	3,7	80	8	14	4	0,5	F426.040.05
	4	4	3,7	80	8	14	4	1	F426.040.10
ACCIAI < 1400 N/mm	5	5	4,7	100	10	15	4	0,3	F426.050.03
	5	5	4,7	100	10	15	4	0,5	F426.050.05
	5	5	4,7	100	10	15	4	1,5	F426.050.15
HRC 65	6	6	5,6	100	12	18	4	0,3	F426.060.03
	6	6	5,6	100	12	18	4	0,5	F426.060.05
	6	6	5,6	100	12	18	4	1	F426.060.10
HPC	6	6	5,6	100	12	18	4	1,5	F426.060.15
	6	6	5,6	100	12	18	4	2	F426.060.20
	6	6	5,6	100	12	18	4	2,5	F426.060.25
	8	8	7,5	100	16	26	4	0,3	F426.080.03
	8	8	7,5	100	16	26	4	0,5	F426.080.05
	8	8	7,5	100	16	26	4	1	F426.080.10
	8	8	7,5	100	16	26	4	2	F426.080.20
	8	8	7,5	100	16	26	4	3	F426.080.30
	10	10	9,5	120	20	30	4	0,3	F426.100.03
	10	10	9,5	120	20	30	4	0,5	F426.100.05
SERIE EXTRA LUNGA	10	10	9,5	120	20	30	4	1	F426.100.10
	10	10	9,5	120	20	30	4	2	F426.100.20
	10	10	9,5	120	20	30	4	2,5	F426.100.25
									

F426



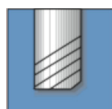
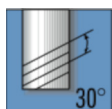
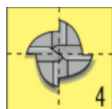
FRESE IN METALLO DURO TORICHE EXTRA LUNGHE A 4 ELICHE SOLID CARBIDE CORNER RADIUS END MILLS EXTRA LONG 4 FLUTES



ALTIN	D1	D2	D3	L1	L2	AP	Z	R	Articolo
INOX	12	12	11	120	24	35	4	0,5	F426.120.05
	12	12	11	120	24	35	4	1	F426.120.10
	12	12	11	120	24	35	4	2	F426.120.20
A SECCO	12	12	11	120	24	35	4	2,5	F426.120.25
	12	12	11	120	24	35	4	3	F426.120.30
	16	16	15	120	32	45	4	1	F426.160.10
ACCIAI < 1400 N/mm	16	16	15	120	32	45	4	2	F426.160.20
	16	16	15	120	32	45	4	3	F426.160.30

HRC
65

HPC



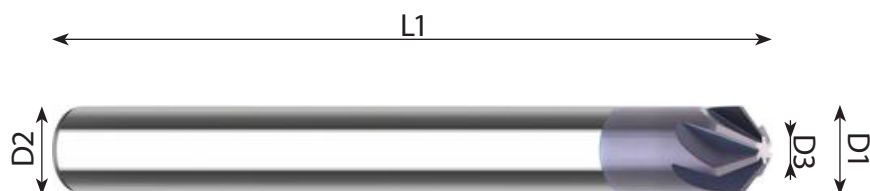
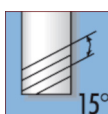
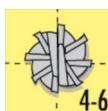
SERIE
EXTRA
LUNGA



F426

**F427**

FRESE IN METALLO DURO PER SMUSSI A 90°
SOLID CARBIDE CHAMFER MILLS 90°

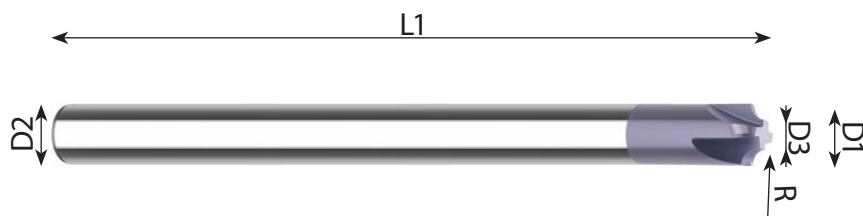
**TIALN****Universal**

D1	D2	D3	L1	Z	Articolo
3	3	1	50	5	F427.030.00
4	4	1,5	50	6	F427.040.00
6	6	2	50	6	F427.060.00

F427

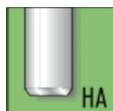
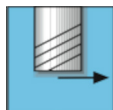
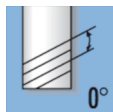
FRESE RAGGIATE IN METALLO DURO CON RAGGIO CONCAVO

SOLID CARBIDE END MILLS WITH CONCAVE CORNER RADIUS



TIALN

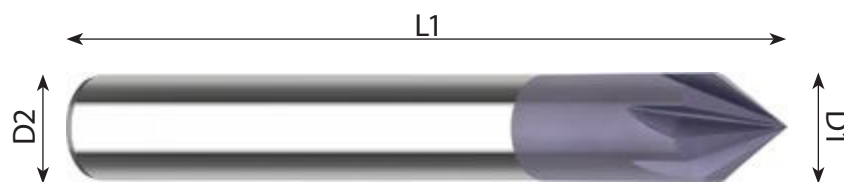
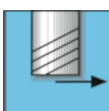
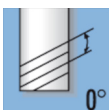
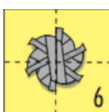
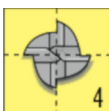
Universal



D1	D2	D3	L1	Z	R	Articolo
6	6	5,6	58	4	0,2	F428.002.00
6	6	5,4	58	4	0,3	F428.003.00
8	8	7	70	4	0,5	F428.005.00
8	8	6	70	4	1	F428.010.00
10	10	7	75	4	1,5	F428.015.00
10	10	6	75	4	2	F428.020.00
12	12	7	75	4	2,5	F428.025.00
12	12	6	75	4	3	F428.030.00
16	16	9	80	4	3,5	F428.035.00
16	16	8	80	4	4	F428.040.00
16	16	7	80	4	4,5	F428.045.00
20	20	10	80	4	5	F428.050.00
20	20	8	80	4	6	F428.060.00
25	25	9	100	4	8	F428.080.00
25	25	5	100	4	10	F428.100.00

**F429**

FRESE IN METALLO DURO PER SMUSSI A 60°
SOLID CARBIDE CHAMFER MILLS 60°

**TIALN****Universal**

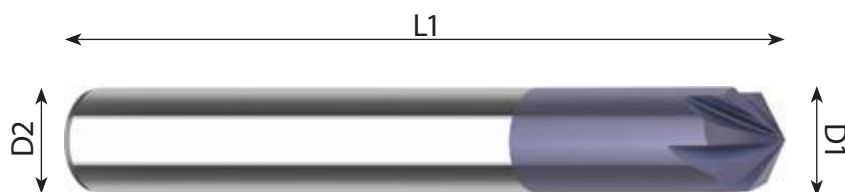
D1	D2	L1	Z	Articolo
4	4	54	4	F429.040.00
6	6	57	4	F429.060.00
8	8	63	5	F429.080.00
10	10	72	6	F429.100.00
12	12	83	6	F429.120.00
16	16	92	6	F429.160.00
20	20	104	6	F429.200.00

F429

F430

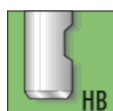
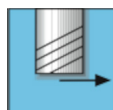
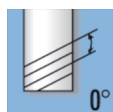
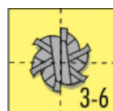


FRESE IN METALLO DURO PER SMUSSI A 90° SOLID CARBIDE CHAMFER MILLS 90°



TIALN

Universal



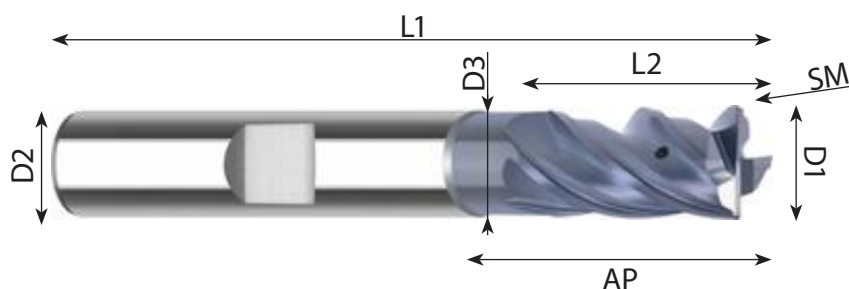
D1	D2	L1	Z	Articolo
1	3	38	3	F430.010.00
2	3	38	3	F430.020.00
3	3	38	4	F430.030.00
4	4	54	4	F430.040.00
6	6	57	4	F430.060.00
8	8	63	5	F430.080.00
10	10	72	6	F430.100.00
12	12	83	6	F430.120.00
16	16	92	6	F430.160.00
20	20	104	6	F430.200.00



F430

FRESE IN METALLO DURO CON FORI DI LUBRIFICAZIONE

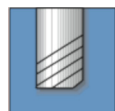
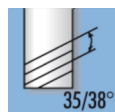
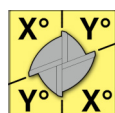
SOLID CARBIDE END MILLS WITH INNER COOLING



	D1	D2	D3	L1	L2	AP	Z	SM	Articolo
ALTIN	6	6	5,5	57	13	18	4	0,2	F433.060.00
Universal	8	8	7,5	63	19	24	4	0,2	F433.080.00
	10	10	9,5	72	22	32	4	0,3	F433.100.00
INCONEL TITAN	12	12	11	83	26	36	4	0,3	F433.120.00
	16	16	15	92	32	42	4	0,4	F433.160.00
	20	20	19	104	38	48	4	0,5	F433.200.00

INOX

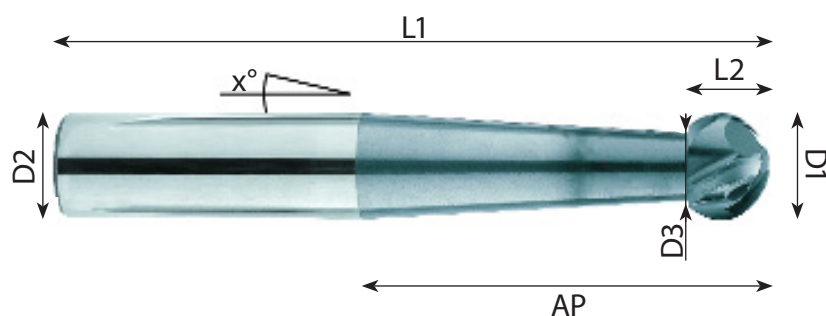
HPC



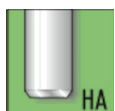
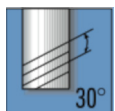
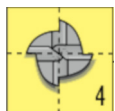
SERIE
LUNGA



FRESE A PALLA 3D IN METALLO DURO Z4 SOLID CARBIDE 3D BALL END MILLS Z4



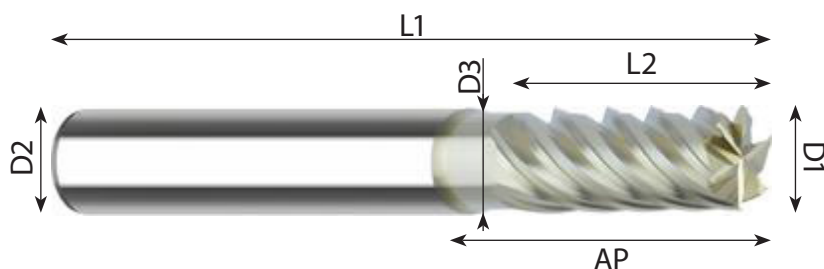
TIALN	D1	D2	D3	L1	L2	AP	Z	x°	Articolo
INCONEL	3	6	1,7	100	2,6	17	4	8°	F434.030.100
TITAN	4	6	2,4	100	3,5	17	4	7°	F434.040.100
HRC	5	6	4,3	100	4	30	4	1°40'	F434.050.100
60	6	6	4	100	5,2	30	4	2°10'	F434.060.100
	6	6	4	150	5,2	45	4	1°20'	F434.060.150
	8	8	5	100	7	35	4	3°10'	F434.080.100
	8	8	5	150	7	50	4	1°55'	F434.080.150
	10	10	6,1	100	8,7	40	4	3°40'	F434.100.100
	10	10	6,1	150	8,7	60	4	2°10'	F434.100.150
	12	12	7,5	100	10,5	50	4	3°10'	F434.120.100
	12	12	7,5	150	10,5	75	4	1°50'	F434.120.150



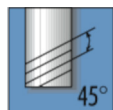
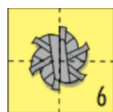
**F600**

FRESE IN METALLO DURO A 6 TAGLI CON SMUSSO PER SUPERFINITURA

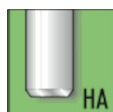
SOLID CARBIDE END MILLS 6 FLUTES



	D1	D2	D3	L1	L2	AP	Z	Articolo
ZrN	6	6	5,7	57	15	20	6	F600.060.20
LAPPATE	6	6	5,7	80	15	43	6	F600.060.43
	8	8	7,4	63	20	26	6	F600.080.26
ALU	8	8	7,4	100	20	62	6	F600.080.62
	10	10	9,2	73	25	32	6	F600.100.32
MAT. PLASTICI	10	10	9,2	100	25	58	6	F600.100.58
	12	12	11	83	30	37	6	F600.120.37
	12	12	11	120	30	73	6	F600.120.73
RAME	16	16	15	93	40	45	6	F600.160.45
	16	16	15	150	40	100	6	F600.160.100
	20	20	19	104	50	53	6	F600.200.53



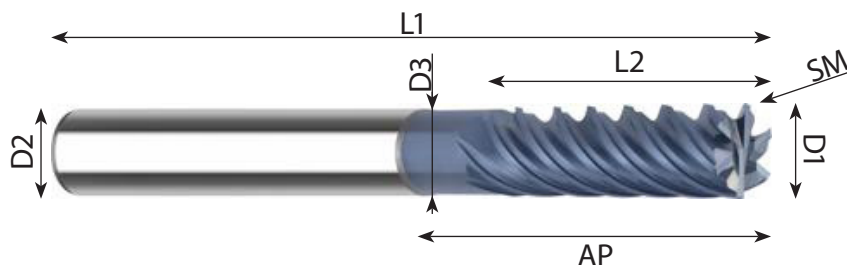
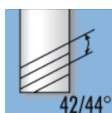
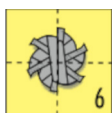
SERIE
LUNGA

**F600**

F601

FRESE IN METALLO DURO PER FINITURA

SOLID CARBIDE END MILLS FOR HIGH SPEED FINISHING

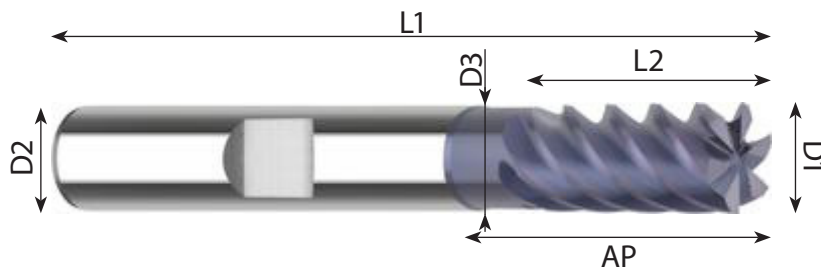
**HPC****SERIE LUNGA**

D1	D2	D3	L1	L2	AP	Z	SM	Articolo
3	6		57	8		5	0,05	F601.030.00
3	6	2,8	57	8	11	5	0,05	F601.031.00
4	6		57	8		6	0,1	F601.040.00
4	6	3,7	57	8	16	6	0,1	F601.041.00
5	6		57	10		6	0,1	F601.050.00
5	6	4,7	57	10	18	6	0,1	F601.051.00
6	6		57	13		6	0,1	F601.060.00
6	6	5,5	65	22	29	6	0,1	F601.061.00
8	8		63	19		6	0,1	F601.080.00
8	8	7,5	80	28	44	6	0,1	F601.081.00
10	10		72	22		6	0,1	F601.100.00
10	10	9,5	100	32	60	6	0,1	F601.101.00
12	12		83	26		6	0,1	F601.120.00
12	12	11,5	100	40	55	6	0,1	F601.121.00
16	16		92	32		6	0,2	F601.160.00
16	16	15,5	115	50	67	6	0,2	F601.161.00
20	20		104	42		6	0,2	F601.200.00
20	20	19,5	125	62	75	6	0,2	F601.201.00
25	25		110	42		6	0,2	F601.250.00

SPEED FINISH**F601**

FRESE IN METALLO DURO SERIE LUNGA Z6/8 A 45° FINITURA

SOLID CARBIDE END MILLS 45° Z6/8 LONG TYPE FOR FINISHING

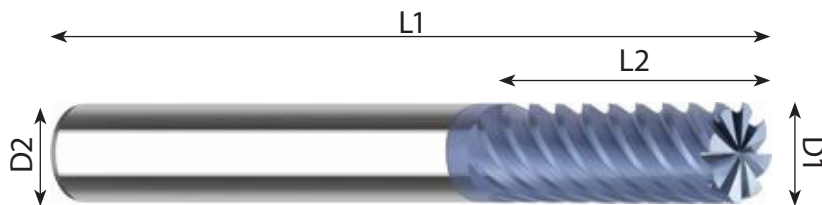


TIALN	D1	D2	D3	L1	L2	AP	Z	Articolo
	3	6	2,7	57	8	11	6	F602.030.00
	4	6	3,7	57	11	16	6	F602.040.00
	5	6	4,6	57	13	18	6	F602.050.00
	6	6	5,5	57	13	18	6	F602.060.00
	8	8	7,5	63	19	24	6	F602.080.00
	10	10	9,5	72	22	32	6	F602.100.00
	12	12	11,5	83	26	36	6	F602.120.00
	14	14	13,5	83	26	36	6	F602.140.00
	16	16	15,5	92	32	42	6	F602.160.00
SERIE LUNGA	18	18	17,5	92	32	42	8	F602.180.00
	20	20	19,5	104	38	48	8	F602.200.00
	25	25	24,5	121	45	65	8	F602.250.00

F603



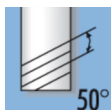
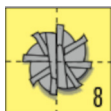
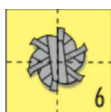
FRESE IN METALLO DURO SERIE EXTRA LUNGA Z6/8 A 50° FINITURA SOLID CARBIDE END MILLS 50° Z6/8 EXTRA LONG TYPE FOR FINISHING



TIALN

INOX

HRC
65



SERIE
EXTRA
LUNGA



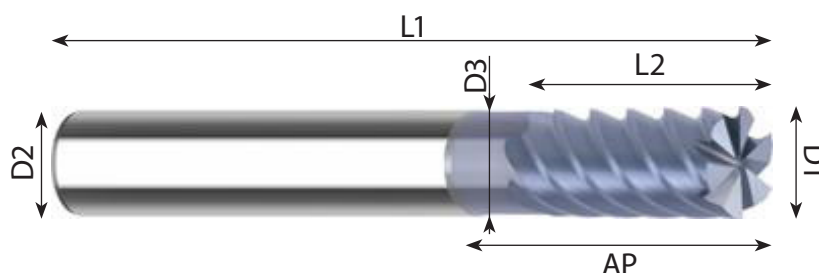
D1	D2	L1	L2	Z	Articolo
6	6	57	18	6	F603.060.00
8	8	63	24	6	F603.080.00
10	10	75	30	6	F603.100.00
12	12	83	36	6	F603.120.00
12	12	150	36	6	F603.120.02
16	16	104	48	8	F603.160.00
16	16	150	65	8	F603.160.02
20	20	110	55	8	F603.200.00
20	20	150	65	8	F603.200.02



F603

**F604**

FRESE IN METALLO DURO SERIE MEDIA Z6/8 A 50° FINITURA
 SOLID CARBIDE END MILLS 50° Z6/8 MEDIUM TYPE FOR FINISHING



ALTIN	D1	D2	D3	L1	L2	AP	Z	Articolo
HRC 65	3	6	2,8	57	8	11	6	F604.030.00
	4	6	3,7	57	11	16	6	F604.040.00
	5	6	4,7	57	13	18	6	F604.050.00
HSC	6	6	5,6	57	13	18	6	F604.060.00
	8	8	7,5	63	19	27	6	F604.080.00
	10	10	9,5	72	22	32	6	F604.100.00
	12	12	11	83	26	36	6	F604.120.00
	16	16	15	92	32	42	8	F604.160.00
	20	20	19	104	38	48	8	F604.200.00

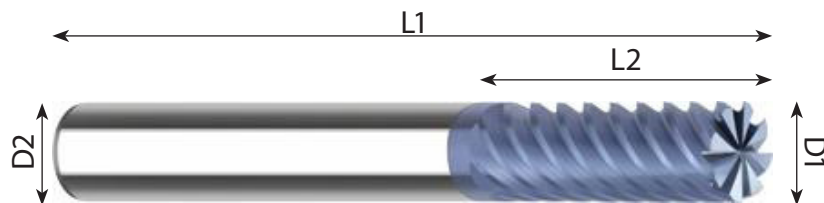
F604

F605



FRESE IN METALLO DURO SERIE LUNGA Z6/8 A 50° FINITURA

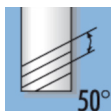
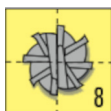
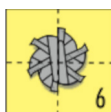
SOLID CARBIDE END MILLS 50° Z6/8 LONG TYPE FOR FINISHING



ALTIN

INOX

HRC
65



SERIE
LUNGA



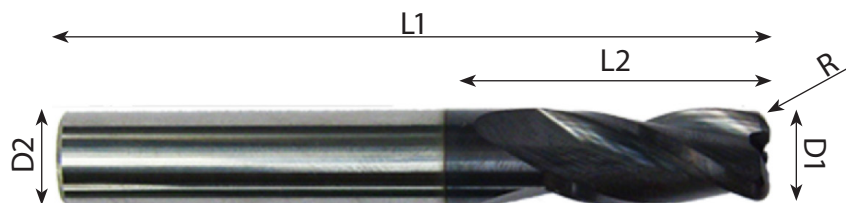
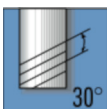
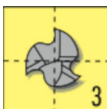
D1	D2	L1	L2	Z	Articolo
6	6	57	18	6	F605.060.00
8	8	63	24	6	F605.080.00
10	10	75	30	6	F605.100.00
12	12	83	36	6	F605.120.00
12	12	150	36	6	F605.120.02
16	16	104	48	8	F605.160.00
16	16	150	65	8	F605.160.02
20	20	110	55	8	F605.200.00
20	20	150	65	8	F605.200.02



F605

**FT330L**

FRESE IN METALLO DURO TORICHE A 3 TAGLI SERIE LUNGA
SOLID CARBIDE END MILLS WITH CORNER RADIUS LONG SERIES 3 FLUTES

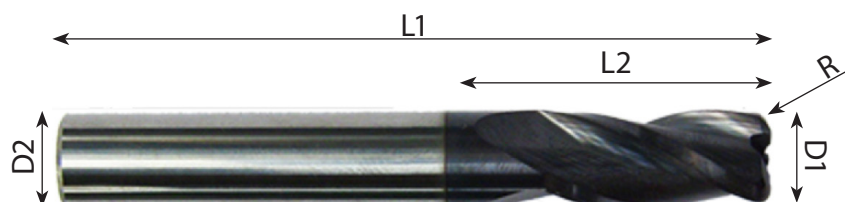
**ALTIN****NE****INOX****INCONEL
TITAN****ACCIAI**
< 900 N/mm**HRC**
45**SERIE
LUNGA**

D1	D2	L1	L2	Z	R	Articolo
4	4	70	24	3	0,25	FT330L040-025R
4	4	70	24	3	0,50	FT330L040-050R
4	4	70	24	3	0,75	FT330L040-075R
4	4	70	24	3	1,00	FT330L040-100R
4	4	70	24	3	1,25	FT330L040-125R
4	4	70	24	3	1,50	FT330L040-150R
5	5	70	20	3	0,25	FT330L050-025R
5	5	70	20	3	0,50	FT330L050-050R
5	5	70	20	3	0,75	FT330L050-075R
5	5	70	20	3	1,0	FT330L050-100R
5	5	70	20	3	1,25	FT330L050-125R
5	5	70	20	3	1,50	FT330L050-150R
5	5	70	20	3	1,75	FT330L050-175R
5	5	70	20	3	2,00	FT330L050-200R
6	6	32	11	3	0,25	FT330L060-25R
6	6	32	11	3	0,50	FT330L060-50R
6	6	32	11	3	0,75	FT330L060-75R
6	6	32	11	3	1,00	FT330L060-100R
6	6	32	11	3	1,25	FT330L060-125R
6	6	32	11	3	1,50	FT330L060-150R
6	6	32	11	3	1,75	FT330L060-175R
6	6	32	11	3	2,00	FT330L060-200R
6	6	32	11	3	2,50	FT330L060-250R

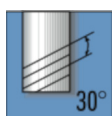
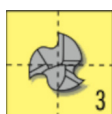
FT330L

FRESE IN METALLO DURO TORICHE A 3 TAGLI SERIE LUNGA

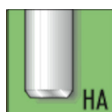
SOLID CARBIDE END MILLS WITH CORNER RADIUS LONG SERIES 3 FLUTES



ALTIN	D1	D2	L1	L2	Z	R	Articolo
	8	8	80	25	3	0,25	FT330L080-025R
NE	8	8	80	25	3	0,50	FT330L080-050R
	8	8	80	25	3	0,75	FT330L080-075R
INOX	8	8	80	25	3	1,00	FT330L080-100R
	8	8	80	25	3	1,25	FT330L080-125R
	8	8	80	25	3	1,50	FT330L080-150R
INCONEL TITAN	8	8	80	25	3	1,75	FT330L080-175R
	8	8	80	25	3	2,00	FT330L080-200R
	8	8	80	25	3	2,50	FT330L080-250R
ACCIAI < 900 N/mm	10	10	100	32	3	0,25	FT330L100-025R
	10	10	100	32	3	0,50	FT330L100-050R
HRC 45	10	10	100	32	3	0,75	FT330L100-075R
	10	10	100	32	3	1,00	FT330L100-100R
	10	10	100	32	3	1,25	FT330L100-125R
	10	10	100	32	3	1,50	FT330L100-150R
	10	10	100	32	3	1,75	FT330L100-175R
	10	10	100	32	3	2,00	FT330L100-200R
	10	10	100	32	3	2,50	FT330L100-250R
	10	10	100	32	3	3,00	FT330L100-300R

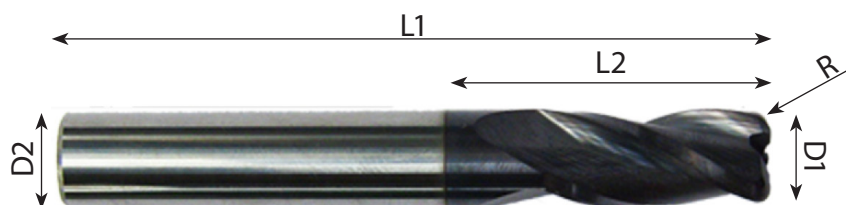
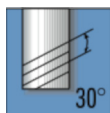
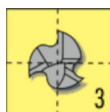


SERIE
LUNGA



**FT330N**

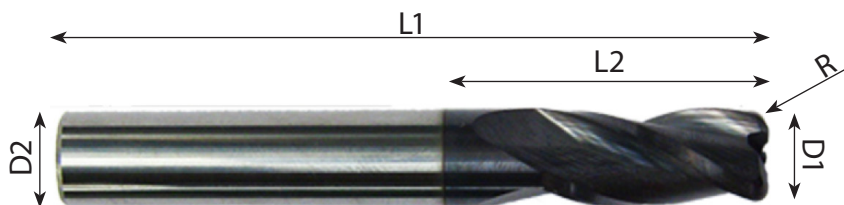
FRESE IN METALLO DURO TORICHE A 3 TAGLI SERIE CORTA
SOLID CARBIDE END MILLS WITH CORNER RADIUS SHORT SERIES 3 FLUTES

**ALTIN****INOX****NE****INCONEL
TITAN****ACCIAI**
< 900 N/mm**HRC**
45**SERIE
CORTA**

D1	D2	L1	L2	Z	R	Articolo
4	4	50	12	3	0,25	FT330N040-025R
4	4	50	12	3	0,50	FT330N040-050R
4	4	50	12	3	0,75	FT330N040-075R
4	4	50	12	3	1,00	FT330N040-100R
4	4	50	12	3	1,25	FT330N040-125R
4	4	50	12	3	1,50	FT330N040-150R
5	5	50	15	3	0,25	FT330N050-025R
5	5	50	15	3	0,50	FT330N050-050R
5	5	50	15	3	0,75	FT330N050-075R
5	5	50	15	3	1,0	FT330N050-100R
5	5	50	15	3	1,25	FT330N050-125R
5	5	50	15	3	1,50	FT330N050-150R
5	5	50	15	3	1,75	FT330N050-175R
5	5	50	15	3	2,00	FT330N050-200R
6	6	50	15	3	0,25	FT330N060-25R
6	6	50	15	3	0,50	FT330N060-50R
6	6	50	15	3	0,75	FT330N060-75R
6	6	50	15	3	1,00	FT330N060-100R
6	6	50	15	3	1,25	FT330N060-125R
6	6	50	15	3	1,50	FT330N060-150R
6	6	50	15	3	1,75	FT330N060-175R
6	6	50	15	3	2,00	FT330N060-200R
6	6	50	15	3	2,50	FT330N060-250R

FT330N

FRESE IN METALLO DURO TORICHE A 3 TAGLI SERIE CORTA SOLID CARBIDE END MILLS WITH CORNER RADIUS SHORT SERIES 3 FLUTES



ALTiN

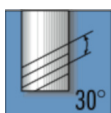
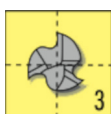
INOX

NE

INCONEL
TITAN

ACCIAI
< 900 N/mm

HRC
45

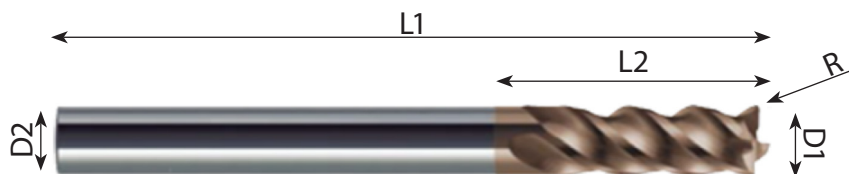


SERIE
CORTA

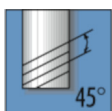
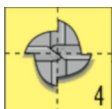


D1	D2	L1	L2	Z	R	Articolo
8	8	60	20	3	0,25	FT330N080-025R
8	8	60	20	3	0,50	FT330N080-050R
8	8	80	25	3	0,75	FT330N080-075R
8	8	80	25	3	1,00	FT330N080-100R
8	8	80	25	3	1,25	FT330N080-125R
8	8	80	25	3	1,50	FT330N080-150R
8	8	80	25	3	1,75	FT330N080-175R
8	8	80	25	3	2,00	FT330N080-200R
8	8	80	25	3	2,50	FT330N080-250R
10	10	100	32	3	0,25	FT330N100-025R
10	10	100	32	3	0,50	FT330N100-050R
10	10	100	32	3	0,75	FT330N100-075R
10	10	100	32	3	1,00	FT330N100-100R
10	10	100	32	3	1,25	FT330N100-125R
10	10	100	32	3	1,50	FT330N100-150R
10	10	100	32	3	1,75	FT330N100-175R
10	10	100	32	3	2,00	FT330N100-200R
10	10	100	32	3	2,50	FT330N100-250R
10	10	100	32	3	3,00	FT330N100-300R

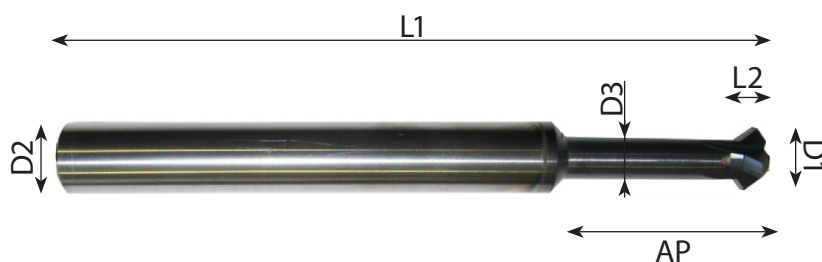
FRESE IN METALLO DURO TORICHE A 4 TAGLI AD ALTA VELOCITÀ **HIGH SPEED SOLID CARBIDE END MILLS WITH 4 FLUTES**



TIALCN	D1	D2	L1	L2	Z	R	Articolo
	6	6	60	13	4		FEPP 060 HC
INOX	6	6	60	13	4	0,50	FEPP 060 050 HC
	6	6	60	13	4	1,00	FEPP 060 100 HC
INCONEL TITAN	8	8	75	19	4		FEPP 080 HC
	8	8	75	19	4	0,50	FEPP 080 050 HC
	8	8	75	19	4	1,00	FEPP 080 100 HC
A SECCO	10	10	80	22	4		FEPP 100 HC
	10	10	80	22	4	0,50	FEPP 100 050 HC
	10	10	80	22	4	1,00	FEPP 100 100 HC
ACCIAI < 1400 N/mm	12	12	100	26	4		FEPP 120 HC
	12	12	100	26	4	0,50	FEPP 120 050 HC
HRC 60	12	12	100	26	4	1,00	FEPP 120 100 HC
	12	12	100	26	4	2,00	FEPP 120 200 HC
	16	16	110	32	4		FEPP 160 HC
HSC	16	16	110	32	4	0,50	FEPP 160 050 HC
	16	16	110	32	4	1,00	FEPP 160 100 HC
	16	16	110	32	4	2,00	FEPP 160 200 HC



SMUSSATORI A 45° IN TIRO E SPINTA SOLID CARBIDE PUSH-PULL SINK 45°

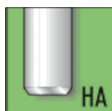
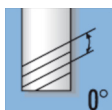
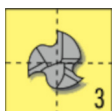


ALTIN

NE

ACCIAI
< 900 N/mm

HRC
45



D1	D2	D3	L1	L2	AP	Articolo
4	4	2	100	2,7	15	SM 45040
6	6	4	100	3,7	18	SM 45060
8	8	5	100	5,2	24	SM 45080
10	10	6	100	6,7	30	SM 45100
12	12	7	100	8,0	36	SM 45120
16	16	10	100	10,5	48	SM 45160

2022

2R Utensili s.r.l.



LISTINO PREZZI
PRICE LIST



F200

F200.010.00	€ 100,00
F200.015.00	€ 100,00
F200.020.00	€ 100,00
F200.025.00	€ 100,00
F200.030.00	€ 100,00
F200.040.00	€ 100,00
F200.050.00	€ 100,00
F200.060.00	€ 100,00
F200.080.00	€ 120,50
F200.100.00	€ 159,00
F200.120.00	€ 298,50
F200.140.00	€ 343,00
F200.200.00	€ 533,00

F201

F201.002.00	€ 81,00
F201.003.00	€ 81,00
F201.004.00	€ 81,00
F201.005.00	€ 81,00
F201.006.00	€ 81,00
F201.007.00	€ 81,00
F201.008.00	€ 81,00
F201.009.00	€ 81,00
F201.010.00	€ 81,00
F201.011.00	€ 81,00
F201.012.00	€ 81,00
F201.014.00	€ 81,00
F201.015.00	€ 81,00
F201.016.00	€ 81,00
F201.018.00	€ 81,00
F201.020.00	€ 81,00
F201.025.00	€ 81,00
F201.030.00	€ 87,00
F201.040.00	€ 87,00
F201.050.00	€ 87,00
F201.060.00	€ 87,00
F201.080.00	€ 101,00
F201.100.00	€ 130,00
F201.120.00	€ 167,50
F201.140.00	€ 197,50

F201.160.00	€ 242,50
F201.200.00	€ 367,50

F207

F207.030.00	€ 43,50
F207.040.00	€ 49,00
F207.050.00	€ 50,50
F207.060.00	€ 68,00
F207.080.00	€ 82,50
F207.100.00	€ 94,00
F207.120.00	€ 137,00
F207.160.00	€ 231,00
F207.200.00	€ 360,50

F208

F208.010.00	€ 25,00
F208.015.00	€ 25,00
F208.020.00	€ 25,00
F208.025.00	€ 27,50
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F208.035.00	€ 32,00
F208.040.00	€ 32,00
F208.045.00	€ 32,00
F208.048.00	€ 32,00
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F208.087.00	€ 50,50
F208.090.00	€ 50,50
F208.097.00	€ 50,50
F208.100.00	€ 50,50
F208.117.00	€ 72,50
F208.120.00	€ 72,50
F208.137.00	€ 108,50
F208.140.00	€ 108,50
F208.157.00	€ 127,00

F208.160.00	€ 127,00
F208.180.00	€ 173,00
F208.200.00	€ 202,00

F209

F209.060.00	€ 110,00
F209.080.00	€ 134,50
F209.100.00	€ 169,00
F209.120.00	€ 209,00
F209.160.00	€ 357,50
F209.200.00	€ 575,50

F211

F211.006.00	€ 63,00
F211.010.00	€ 55,50
F211.015.00	€ 55,50
F211.020.00	€ 55,50
F211.030.00	€ 52,50
F211.040.00	€ 52,50
F211.050.00	€ 52,50
F211.060.00	€ 52,50
F211.080.00	€ 59,00
F211.100.00	€ 82,00
F211.120.00	€ 125,50
F211.140.00	€ 180,50
F211.160.00	€ 197,50
F211.180.00	€ 261,00
F211.200.00	€ 285,00

F213

F213.020.00	€ 59,50
F213.025.00	€ 43,50
F213.030.00	€ 36,50
F213.040.00	€ 33,50
F213.050.00	€ 30,50
F213.060.00	€ 29,00
F213.070.00	€ 30,50
F213.080.00	€ 30,50
F213.090.00	€ 32,00
F213.100.00	€ 32,00
F213.110.00	€ 32,00
F213.120.00	€ 32,00



F213.130.00	€ 32,00
F213.140.00	€ 32,00
F213.150.00	€ 32,00
F213.160.00	€ 32,00
F213.170.00	€ 33,50
F213.180.00	€ 33,50
F213.190.00	€ 33,50
F213.200.00	€ 33,50

F214

F214.020.00	€ 69,50
F214.030.00	€ 63,50
F214.040.00	€ 37,50
F214.050.00	€ 32,00
F214.060.00	€ 33,50
F214.070.00	€ 32,00
F214.080.00	€ 32,00
F214.090.00	€ 32,00
F214.100.00	€ 26,00
F214.110.00	€ 32,00
F214.120.00	€ 32,00
F214.140.00	€ 32,00
F214.150.00	€ 32,00
F214.160.00	€ 32,00
F214.180.00	€ 32,00
F214.200.00	€ 32,00

F216

F216.026.006	€ 61,00
F216.026.010	€ 61,00
F216.026.015	€ 61,00
F216.026.020	€ 61,00
F216.036.010	€ 58,00
F216.036.020	€ 58,00
F216.036.030	€ 58,00
F216.036.050	€ 58,00
F216.036.040	€ 58,00
F216.046.010	€ 58,00
F216.046.020	€ 58,00
F216.046.040	€ 58,00
F216.046.060	€ 58,00
F216.046.030	€ 58,00

F216.046.050	€ 58,00
F216.046.070	€ 58,00
F216.056.020	€ 58,00
F216.056.040	€ 58,00
F216.056.060	€ 58,00
F216.056.065	€ 58,00
F216.056.085	€ 58,00
F216.056.100	€ 58,00
F216.056.025	€ 58,00
F216.056.035	€ 58,00
F216.056.045	€ 58,00
F216.066.020	€ 50,50
F216.066.040	€ 50,50
F216.066.060	€ 50,50
F216.066.080	€ 50,50
F216.066.085	€ 55,00
F216.066.100	€ 50,50
F216.066.115	€ 50,50
F216.066.025	€ 50,50
F216.066.035	€ 50,50
F216.066.045	€ 50,50
F216.066.065	€ 50,50
F216.086.040	€ 50,50
F216.086.060	€ 50,50
F216.086.080	€ 50,50
F216.086.100	€ 50,50
F216.086.120	€ 55,00
F216.086.140	€ 55,00
F216.086.160	€ 55,00
F216.086.050	€ 50,50
F216.104.040	€ 46,50
F216.104.060	€ 46,50
F216.104.080	€ 46,50
F216.106.040	€ 50,50
F216.106.060	€ 50,50
F216.106.080	€ 50,50
F216.106.100	€ 55,00
F216.106.120	€ 55,00
F216.106.150	€ 55,00
F216.106.200	€ 55,00
F216.106.250	€ 55,00
F216.106.300	€ 55,00

F216.106.050	€ 55,00
F216.106.140	€ 55,00
F216.106.160	€ 55,00
F216.126.030	€ 50,50
F216.126.050	€ 50,50
F216.126.060	€ 50,50
F216.126.080	€ 50,50
F216.126.100	€ 55,00
F216.126.120	€ 50,50
F216.126.150	€ 50,50
F216.126.200	€ 50,50
F216.126.250	€ 50,50
F216.126.180	€ 55,00
F216.146.040	€ 50,50
F216.146.060	€ 50,50
F216.146.080	€ 50,50
F216.146.100	€ 50,50
F216.146.120	€ 55,00
F216.146.150	€ 55,00
F216.146.200	€ 55,00
F216.156.060	€ 50,50
F216.156.080	€ 50,50
F216.156.100	€ 55,00
F216.156.120	€ 55,00
F216.156.150	€ 55,00
F216.156.200	€ 55,00
F216.156.250	€ 55,00
F216.156.300	€ 55,00
F216.166.060	€ 50,50
F216.166.080	€ 50,50
F216.166.100	€ 55,00
F216.166.120	€ 55,00
F216.166.160	€ 55,00
F216.166.200	€ 55,00
F216.186.060	€ 50,50
F216.186.080	€ 50,50
F216.186.120	€ 55,00
F216.186.160	€ 55,00
F216.186.200	€ 55,00
F216.206.120	€ 46,50
F216.206.060	€ 50,50



F216.206.080	€ 50,50
F216.206.100	€ 55,00
F216.206.120	€ 55,00
F216.206.150	€ 55,00
F216.206.200	€ 55,00
F216.206.250	€ 55,00
F216.206.300	€ 55,00
F216.206.160	€ 55,00
F216.256.080	€ 50,50
F216.256.120	€ 55,00
F216.256.160	€ 55,00
F216.256.200	€ 55,00
F216.256.230	€ 55,00
F216.256.250	€ 55,00
F216.306.050	€ 50,50
F216.306.100	€ 55,00
F216.306.150	€ 55,00
F216.306.200	€ 55,00
F216.306.250	€ 55,00
F216.306.300	€ 55,00
F216.306.060	€ 50,50
F216.306.080	€ 50,50
F216.306.120	€ 55,00
F216.306.160	€ 55,00
F216.406.100	€ 55,00
F216.406.150	€ 55,00
F216.406.200	€ 55,00
F216.406.250	€ 55,00
F216.406.300	€ 55,00
F216.406.350	€ 55,00
F216.406.400	€ 55,00
F216.506.100	€ 55,00
F216.506.150	€ 55,00
F216.506.200	€ 55,00
F216.506.250	€ 55,00
F216.506.300	€ 55,00
F216.506.400	€ 59,50
F216.506.180	€ 55,00
F216.606.100	€ 55,00
F216.606.150	€ 55,00
F216.606.200	€ 55,00

F216.606.250	€ 55,00
F216.606.300	€ 55,00
F216.606.400	€ 59,50
F216.606.500	€ 59,50
F216.606.180	€ 55,00

F217

F217.043.02	€ 58,00
F217.043.04	€ 58,00
F217.053.03	€ 50,00
F217.053.05	€ 50,00
F217.064.04	€ 45,50
F217.064.06	€ 45,50
F217.084.04	€ 45,50
F217.084.06	€ 45,50
F217.084.08	€ 45,50
F217.084.10	€ 45,50
F217.104.05	€ 45,50
F217.104.10	€ 45,50
F217.104.15	€ 45,50
F217.104.20	€ 45,50
F217.104.25	€ 45,50
F217.124.06	€ 45,50
F217.124.12	€ 45,50
F217.154.04	€ 45,50
F217.154.08	€ 45,50
F217.154.12	€ 45,50
F217.154.16	€ 45,50
F217.154.20	€ 45,50
F217.154.25	€ 45,50
F217.204.05	€ 45,50
F217.204.10	€ 45,50
F217.204.15	€ 45,50
F217.204.20	€ 48,00
F217.204.25	€ 48,00
F217.204.30	€ 48,00
F217.304.05	€ 45,50
F217.304.10	€ 45,50
F217.304.15	€ 45,50
F217.304.20	€ 45,50
F217.304.25	€ 48,00

F217.304.30	€ 48,00
F217.406.10	€ 50,50
F217.406.15	€ 50,50
F217.406.20	€ 59,50
F217.406.25	€ 50,50
F217.406.30	€ 50,50
F217.506.10	€ 50,50
F217.506.20	€ 50,50
F217.506.30	€ 59,50
F217.506.40	€ 59,50
F217.606.20	€ 50,50
F217.606.30	€ 59,50
F217.606.40	€ 59,50
F217.606.50	€ 59,50

F218

F218.030.00	€ 30,50
F218.040.00	€ 32,00
F218.050.00	€ 33,50
F218.060.00	€ 40,50
F218.080.00	€ 52,00
F218.100.00	€ 75,00
F218.120.00	€ 104,00
F218.160.00	€ 161,50
F218.200.00	€ 252,50

F219

F219.030.00	€ 48,00
F219.040.00	€ 48,00
F219.050.00	€ 53,50
F219.060.00	€ 65,00
F219.080.00	€ 94,00
F219.100.00	€ 108,50
F219.120.10	€ 121,00
F219.120.15	€ 228,00
F219.160.10	€ 252,50
F219.160.15	€ 330,50

**F221**

F221.010.00	€ 59,50
F221.015.00	€ 59,50
F221.020.00	€ 59,50
F221.025.00	€ 59,50
F221.030.00	€ 40,50
F221.040.00	€ 50,50
F221.050.00	€ 53,50
F221.060.00	€ 55,00
F221.080.00	€ 69,50
F221.100.00	€ 91,00
F221.120.00	€ 169,00
F221.140.00	€ 245,50
F221.160.00	€ 295,50
F221.180.00	€ 349,00
F221.200.00	€ 389,50

F222

F222.030.00	€ 43,50
F222.040.00	€ 45,00
F222.050.00	€ 47,50
F222.060.00	€ 60,00
F222.080.00	€ 81,00
F222.100.00	€ 104,00
F222.120.00	€ 101,50

F223

F223.030.00	€ 43,50
F223.040.00	€ 45,00
F223.050.00	€ 47,50
F223.060.00	€ 58,00
F223.080.00	€ 81,00
F223.100.00	€ 104,00
F223.120.00	€ 101,50
F223.160.00	€ 147,00
F223.200.00	€ 255,50

F224

F224.030.00	€ 43,50
F224.050.00	€ 47,50
F224.060.00	€ 58,00
F224.100.00	€ 104,00

F226

F226.0106.50	€ 50,50
F226.0206.50	€ 50,50
F226.0206.57	€ 52,00
F226.0206.75	€ 56,00
F226.0306.50	€ 50,50
F226.0306.57	€ 52,00
F226.0306.75	€ 56,00
F226.0406.50	€ 50,50
F226.0406.57	€ 52,00
F226.0406.75	€ 56,00
F226.0506.57	€ 52,00
F226.0506.75	€ 56,00
F226.0606.57	€ 52,00
F226.0606.75	€ 56,00
F226.0606.100	€ 63,00
F226.0608.100	€ 103,50
F226.0808.60	€ 72,00
F226.0808.75	€ 87,00
F226.0808.100	€ 89,00
F226.0810.100	€ 132,00
F226.1010.70	€ 92,00
F226.1010.80	€ 97,50
F226.1010.100	€ 110,50
F226.1012.100	€ 172,00
F226.1212.75	€ 123,50
F226.1212.100	€ 135,00

F227

F227.020.01	€ 61,00
F227.020.02	€ 61,00
F227.020.03	€ 61,00
F227.030.10	€ 58,00
F227.030.11	€ 58,00
F227.030.12	€ 58,00
F227.030.13	€ 58,00

F227.040.10	€ 58,00
F227.040.11	€ 58,00
F227.040.12	€ 58,00
F227.041.10	€ 58,00
F227.041.11	€ 58,00
F227.041.12	€ 58,00
F227.050.10	€ 58,00
F227.050.11	€ 58,00
F227.050.12	€ 58,00
F227.050.13	€ 58,00
F227.050.14	€ 58,00
F227.050.15	€ 58,00
F227.051.11	€ 58,00
F227.051.12	€ 58,00
F227.051.13	€ 58,00
F227.060.01	€ 50,50
F227.060.02	€ 50,50
F227.060.03	€ 50,50
F227.060.04	€ 50,50
F227.060.05	€ 50,50
F227.060.06	€ 50,50
F227.060.07	€ 50,50
F227.060.08	€ 50,50
F227.060.09	€ 50,50
F227.060.10	€ 50,50
F227.060.11	€ 50,50
F227.060.12	€ 50,50
F227.060.13	€ 50,50
F227.080.01	€ 50,50
F227.080.02	€ 50,50
F227.080.03	€ 50,50
F227.080.04	€ 50,50
F227.080.05	€ 50,50
F227.080.06	€ 50,50
F227.080.07	€ 50,50
F227.080.08	€ 50,50
F227.080.09	€ 50,50
F227.080.10	€ 50,50
F227.080.11	€ 50,50
F227.080.12	€ 50,50
F227.080.13	€ 50,50
F227.080.14	€ 55,00



F227.100.03	€ 46,50	F227.150.04	€ 50,50	F227.200.21	€ 55,00
F227.100.04	€ 46,50	F227.150.05	€ 55,00	F227.201.14	€ 55,00
F227.100.05	€ 46,50	F227.150.06	€ 55,00	F227.250.10	€ 50,50
F227.100.06	€ 46,50	F227.150.07	€ 55,00	F227.250.11	€ 55,00
F227.100.07	€ 46,50	F227.150.08	€ 55,00	F227.250.12	€ 55,00
F227.100.10	€ 50,50	F227.150.09	€ 55,00	F227.250.13	€ 55,00
F227.100.11	€ 50,50	F227.150.10	€ 59,50	F227.250.14	€ 55,00
F227.100.12	€ 51,00	F227.150.11	€ 59,50	F227.250.15	€ 55,00
F227.100.13	€ 50,50	F227.150.12	€ 50,50	F227.300.03	€ 50,50
F227.100.14	€ 50,50	F227.150.13	€ 55,00	F227.300.04	€ 50,50
F227.100.15	€ 55,00	F227.150.14	€ 55,00	F227.300.05	€ 50,50
F227.100.16	€ 55,00	F227.150.15	€ 55,00	F227.300.06	€ 55,00
F227.100.17	€ 55,00	F227.150.16	€ 55,00	F227.300.07	€ 55,00
F227.100.18	€ 55,00	F227.150.17	€ 55,00	F227.300.08	€ 55,00
F227.100.19	€ 55,00	F227.150.18	€ 55,00	F227.300.09	€ 55,00
F227.100.20	€ 55,00	F227.150.19	€ 50,50	F227.300.10	€ 50,50
F227.100.21	€ 55,00	F227.150.20	€ 55,00	F227.300.11	€ 50,50
F227.100.22	€ 55,00	F227.150.21	€ 55,00	F227.300.12	€ 55,00
F227.100.23	€ 55,00	F227.160.10	€ 50,50	F227.300.13	€ 55,00
F227.101.17	€ 55,00	F227.160.11	€ 50,50	F227.300.14	€ 55,00
F227.120.09	€ 50,50	F227.160.12	€ 50,50	F227.300.15	€ 55,00
F227.120.10	€ 50,50	F227.160.13	€ 55,00	F227.300.16	€ 55,00
F227.120.11	€ 50,50	F227.160.14	€ 55,00	F227.301.10	€ 50,50
F227.120.12	€ 50,50	F227.180.10	€ 50,50	F227.301.12	€ 55,00
F227.120.13	€ 55,00	F227.180.11	€ 50,50	F227.400.04	€ 55,00
F227.120.14	€ 55,00	F227.180.12	€ 55,00	F227.400.05	€ 55,00
F227.120.15	€ 55,00	F227.180.13	€ 55,00	F227.400.06	€ 55,00
F227.120.16	€ 55,00	F227.180.14	€ 55,00	F227.400.07	€ 55,00
F227.120.17	€ 55,00	F227.200.02	€ 46,50	F227.400.08	€ 55,00
F227.121.12	€ 50,50	F227.200.04	€ 46,50	F227.400.09	€ 55,00
F227.121.13	€ 50,50	F227.200.06	€ 46,50	F227.400.10	€ 55,00
F227.121.14	€ 55,00	F227.200.10	€ 50,50	F227.400.11	€ 55,00
F227.122.15	€ 55,00	F227.200.11	€ 50,50	F227.400.12	€ 55,00
F227.122.16	€ 55,00	F227.200.12	€ 55,00	F227.400.13	€ 55,00
F227.140.10	€ 50,50	F227.200.13	€ 55,00	F227.400.14	€ 55,00
F227.140.11	€ 50,50	F227.200.14	€ 55,00	F227.400.15	€ 55,00
F227.140.12	€ 55,00	F227.200.15	€ 55,00	F227.500.10	€ 55,00
F227.140.13	€ 55,00	F227.200.16	€ 55,00	F227.500.11	€ 55,00
F227.140.14	€ 55,00	F227.200.17	€ 55,00	F227.500.12	€ 55,00
F227.140.15	€ 55,00	F227.200.18	€ 55,00	F227.500.13	€ 59,50
F227.150.03	€ 50,50	F227.200.19	€ 55,00	F227.501.12	€ 55,00
		F227.200.20	€ 55,00	F227.600.10	€ 55,00



F227.600.11	€ 55,00
F227.600.12	€ 55,00
F227.600.13	€ 55,00
F227.600.14	€ 59,50
F227.600.15	€ 59,50
F227.600.16	€ 55,00
F227.600.17	€ 55,00
F227.600.18	€ 55,00
F227.600.19	€ 55,00
F227.600.20	€ 59,50
F227.600.21	€ 59,50

F228

F228.040.02	€ 45,50
F228.040.04	€ 45,50
F228.050.03	€ 45,50
F228.050.05	€ 45,50
F228.060.02	€ 45,50
F228.060.04	€ 45,50
F228.060.06	€ 45,50
F228.080.04	€ 45,50
F228.080.06	€ 45,50
F228.080.08	€ 45,50
F228.080.10	€ 45,50
F228.100.05	€ 45,50
F228.100.10	€ 45,50
F228.100.15	€ 45,50
F228.100.20	€ 45,50
F228.100.25	€ 45,50
F228.120.06	€ 45,50
F228.120.12	€ 45,50
F228.120.18	€ 45,50
F228.150.04	€ 45,50
F228.150.08	€ 45,50
F228.150.12	€ 45,50
F228.150.16	€ 45,50
F228.150.20	€ 45,50
F228.150.25	€ 45,50
F228.200.05	€ 45,50
F228.200.10	€ 45,50
F228.200.15	€ 45,50
F228.200.20	€ 45,50

F228.200.25	€ 48,00
F228.200.30	€ 48,00
F228.300.05	€ 45,50
F228.300.10	€ 45,50
F228.300.15	€ 45,50
F228.300.20	€ 45,50
F228.300.25	€ 48,00
F228.300.30	€ 48,00
F228.400.10	€ 50,50
F228.400.15	€ 50,50
F228.400.20	€ 50,50
F228.400.25	€ 59,50
F228.400.30	€ 59,50
F228.500.10	€ 50,50
F228.500.20	€ 50,50
F228.500.30	€ 59,50
F228.600.10	€ 50,50
F228.600.20	€ 50,50
F228.600.30	€ 59,50
F228.600.40	€ 59,50
F228.600.50	€ 59,50

F230

F230.020.075	€ 52,00
F230.030.100	€ 77,00
F230.030.150	€ 94,50
F230.040.100	€ 77,00
F230.040.150	€ 94,50
F230.050.100	€ 77,00
F230.060.100	€ 77,00
F230.060.150	€ 97,50
F230.080.100	€ 113,50
F230.080.150	€ 144,50
F230.100.100	€ 143,00
F230.100.150	€ 195,00
F230.120.100	€ 195,00
F230.120.150	€ 251,00

F300

F300.030.00	€ 47,50
F300.040.00	€ 47,50
F300.050.00	€ 47,50

F300.060.00	€ 47,50
F300.080.00	€ 53,00
F300.100.00	€ 81,50
F300.120.00	€ 116,00
F300.140.00	€ 177,50
F300.160.00	€ 194,00
F300.200.00	€ 300,00

F301

F301.060.00	€ 69,00
F301.080.00	€ 86,50
F301.100.00	€ 121,50
F301.120.00	€ 153,50
F301.140.00	€ 196,50
F301.160.00	€ 237,50
F301.200.00	€ 227,50
F301.250.00	€ 519,00

F302

F302.306.20	€ 65,00
F302.406.25	€ 65,00
F302.506.30	€ 65,00
F302.600.30	€ 65,00
F302.800.35	€ 86,50
F302.100.45	€ 121,50
F302.120.55	€ 166,00
F302.160.65	€ 281,50
F302.200.75	€ 373,50

F303

F303.010.00	€ 54,50
F303.015.00	€ 54,50
F303.018.00	€ 54,50
F303.020.00	€ 54,50
F303.030.00	€ 54,50
F303.040.00	€ 57,50
F303.050.00	€ 57,50
F303.060.00	€ 57,50
F303.080.00	€ 79,50
F303.100.00	€ 106,50
F303.120.00	€ 156,00



F303.160.00 € 290,50

F303.200.00 € 413,00

F304

F304.060.00 € 108,50

F304.080.00 € 137,00

F304.100.00 € 174,50

F304.120.00 € 223,50

F304.160.00 € 330,50

F304.200.00 € 454,00

F304.250.00 € 656,00

F305

F305.030.00 € 57,50

F305.040.00 € 57,50

F305.050.00 € 57,50

F305.060.00 € 60,50

F305.061.00 € 80,50

F305.080.00 € 69,00

F305.081.00 € 106,50

F305.100.00 € 117,50

F305.101.00 € 153,50

F305.120.00 € 157,50

F305.121.00 € 218,00

F305.160.00 € 289,50

F305.161.00 € 462,50

F305.180.00 € 320,00

F305.181.00 € 491,50

F305.200.00 € 414,00

F305.201.00 € 592,50

F305.250.00 € 634,00

F307

F307.060.00 € 108,50

F307.080.00 € 128,50

F307.100.00 € 151,50

F307.120.00 € 192,00

F307.160.10 € 289,50

F307.200.10 € 463,00

F308

F308.010.00 € 22,00

F308.015.00 € 22,00

F308.018.00 € 22,00

F308.020.00 € 22,00

F308.025.00 € 22,00

F308.028.00 € 22,00

F308.030.00 € 22,00

F308.035.00 € 22,00

F308.038.00 € 22,00

F308.040.00 € 22,00

F308.045.00 € 25,00

F308.048.00 € 25,00

F308.050.00 € 25,00

F308.055.00 € 23,50

F308.058.00 € 33,50

F308.060.00 € 33,50

F308.067.00 € 39,00

F308.070.00 € 39,00

F308.077.00 € 39,00

F308.080.00 € 37,50

F308.090.00 € 58,00

F308.097.00 € 58,00

F308.100.00 € 59,50

F308.110.00 € 73,50

F308.117.00 € 73,50

F308.120.00 € 75,50

F308.140.00 € 106,00

F308.160.00 € 116,50

F308.180.00 € 183,00

F308.200.00 € 230,50

F310

F310.010.00 € 29,00

F310.015.00 € 29,00

F310.020.00 € 29,00

F310.025.00 € 29,00

F310.030.00 € 29,00

F310.035.00 € 29,00

F310.040.00 € 29,00

F310.045.00 € 29,00

F310.050.00 € 29,00

F310.055.00 € 29,00

F310.060.00 € 29,00

F310.065.00 € 35,00

F310.070.00 € 35,00

F310.075.00 € 35,00

F310.080.00 € 36,50

F310.090.00 € 58,00

F310.100.00 € 58,00

F310.120.00 € 82,50

F310.140.00 € 101,00

F310.160.00 € 134,50

F310.200.00 € 209,00

F312

F312.020.00 € 30,50

F312.030.00 € 35,00

F312.040.00 € 35,00

F312.050.00 € 35,00

F312.060.00 € 39,00

F312.080.00 € 45,00

F312.100.00 € 66,50

F312.120.00 € 91,00

F312.160.00 € 144,50

F312.200.00 € 223,50

F313

F313.030.00 € 67,50

F313.040.00 € 67,50

F313.050.00 € 67,50

F313.060.00 € 70,50

F313.070.00 € 82,00

F313.080.00 € 82,00

F313.090.00 € 138,50

F313.100.00 € 138,50

F313.120.00 € 188,00

F313.160.00 € 348,50

F313.200.00 € 495,50

F315

F315.030 € 53,00

F315.040 € 57,00

F315.060 € 86,00



F315.080	€ 117,00
F315.100	€ 132,00

F316

F316.030	€ 47,00
F316.040	€ 48,00
F316.060	€ 63,00
F316.080	€ 75,00
F316.100	€ 102,00

F400

F400.010.00	€ 71,00
F400.020.00	€ 71,00
F400.030.00	€ 71,00
F400.040.00	€ 71,00
F400.050.00	€ 71,00
F400.060.00	€ 71,00
F400.080.00	€ 89,00
F400.100.00	€ 131,00
F400.120.00	€ 175,50
F400.160.00	€ 351,50

F401

F401.026.02	€ 87,00
F401.026.03	€ 87,00
F401.036.03	€ 87,00
F401.036.05	€ 87,00
F401.046.02	€ 87,00
F401.046.03	€ 87,00
F401.046.05	€ 87,00
F401.046.10	€ 89,00
F401.056.02	€ 89,00
F401.056.05	€ 89,00
F401.056.10	€ 89,00
F401.066.01	€ 89,00
F401.066.02	€ 89,00
F401.066.03	€ 89,00
F401.066.05	€ 89,00
F401.066.10	€ 89,00
F401.066.20	€ 89,00
F401.088.03	€ 110,00
F401.088.05	€ 111,00

F401.088.10	€ 111,00
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F401.088.15	€ 111,00
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F401.088.20	€ 111,00
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F401.100.05	€ 147,50
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F401.100.10	€ 159,50
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F401.100.15	€ 159,50
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F401.100.20	€ 159,50
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F401.120.05	€ 200,00
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F401.120.10	€ 200,00
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F401.120.15	€ 200,00
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F401.120.20	€ 200,00
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F401.160.10	€ 402,00
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F401.160.15	€ 402,00
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F401.160.20	€ 402,00
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F401.160.25	€ 402,00
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F405

F405.030.00	€ 55,50
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F405.040.00	€ 55,50
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F405.050.00	€ 55,50
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F405.060.00	€ 59,00
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F405.061.00	€ 80,50
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F405.080.00	€ 66,50
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F405.081.00	€ 104,00
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F405.100.00	€ 113,00
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F405.101.00	€ 153,50
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F405.120.00	€ 153,50
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F405.121.00	€ 218,00
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F405.160.00	€ 284,00
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F405.161.00	€ 464,00
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F405.200.00	€ 407,00
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F405.201.00	€ 543,50
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F405.250.00	€ 689,00
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F407

F407.020.00	€ 25,00
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F407.030.00	€ 29,00
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F407.035.00	€ 29,00
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F407.040.00	€ 29,00
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F407.050.00	€ 29,00
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F407.060.00	€ 29,00
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F407.070.00	€ 39,00
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F407.080.00	€ 39,00
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F407.090.00	€ 59,50
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F407.100.00	€ 59,50
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F407.110.00	€ 82,50
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F407.120.00	€ 82,50
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F407.130.00	€ 127,00
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F407.140.00	€ 127,00
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F407.150.00	€ 153,00
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F407.160.00	€ 153,00
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F407.180.00	€ 209,00
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F407.200.00	€ 238,00
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F409

F409.030.00	€ 49,00
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F409.040.00	€ 49,00
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F409.050.00	€ 52,00
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F409.060.00	€ 53,50
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F409.060.02	€ 61,00
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F409.080.00	€ 73,50
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F409.100.00	€ 86,50
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F409.120.00	€ 118,50
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F409.120.02	€ 171,50
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F409.140.00	€ 151,50
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F409.160.00	€ 212,00
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F409.160.02	€ 251,00
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F409.180.00	€ 252,50
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F409.180.02	€ 272,50
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F409.200.00	€ 324,50
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F409.200.02	€ 379,50
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F410

F410.030.00	€ 36,50
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F410.040.00	€ 36,50
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F410.050.00	€ 36,50
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F410.060.00	€ 36,50
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F410.080.00	€ 40,50
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F410.100.00	€ 65,00
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F410.120.00	€ 94,00
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F410.140.00	€ 127,00
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F410.160.00	€ 173,00
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F410.180.00	€ 208,00
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F410.200.00	€ 245,50
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F411

F411.020.00	€ 30,50
F411.030.00	€ 35,00
F411.040.00	€ 35,00
F411.050.00	€ 35,00
F411.060.00	€ 39,00
F411.080.00	€ 45,00
F411.100.00	€ 66,50
F411.120.00	€ 91,00
F411.160.00	€ 144,50
F411.200.00	€ 223,50

F412

F412.030.02	€ 55,00
F412.030.05	€ 55,00
F412.040.03	€ 55,00
F412.040.05	€ 55,00
F412.040.10	€ 55,00
F412.050.03	€ 55,00
F412.050.05	€ 55,00
F412.050.10	€ 55,00
F412.060.03	€ 57,50
F412.060.05	€ 57,50
F412.060.10	€ 57,50
F412.060.15	€ 57,50
F412.060.20	€ 57,50
F412.080.05	€ 67,50
F412.080.10	€ 67,50
F412.060.15	€ 67,50
F412.080.20	€ 67,50
F412.100.05	€ 110,00
F412.100.10	€ 110,00
F412.100.15	€ 110,00
F412.100.20	€ 110,00
F412.120.05	€ 147,50
F412.120.10	€ 147,50
F412.120.15	€ 147,50
F412.120.20	€ 147,50
F412.160.05	€ 273,50
F412.160.10	€ 273,50
F412.160.15	€ 273,50

F412.060.20	€ 273,50
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F412.160.1L	€ 317,00
F412.200.05	€ 392,50
F412.200.10	€ 392,50
F412.200.15	€ 392,50
F412.200.20	€ 392,50
F412.200.1L	€ 471,50
F412.250.20	€ 625,50

F413

F413.030.00	€ 37,50
F413.040.00	€ 37,50
F413.050.00	€ 37,50
F413.060.00	€ 37,50
F413.070.00	€ 50,50
F413.080.00	€ 50,50
F413.090.00	€ 73,50
F413.100.00	€ 73,50
F413.110.00	€ 92,50
F413.120.00	€ 92,50
F413.130.00	€ 124,00
F413.140.00	€ 124,00
F413.160.00	€ 161,50
F413.180.00	€ 223,50
F413.200.00	€ 245,50
F413.250.00	€ 503,00

F414

F414.030.00	€ 27,50
F414.040.00	€ 27,50
F414.050.00	€ 27,50
F414.060.00	€ 27,50
F414.070.00	€ 36,50
F414.080.00	€ 36,50
F414.090.00	€ 48,00
F414.100.00	€ 50,00
F414.110.00	€ 65,50
F414.120.00	€ 68,00
F414.130.00	€ 80,00
F414.140.00	€ 86,00
F414.160.00	€ 104,00
F414.200.00	€ 153,00

F415

F415.050.00	€ 66,00
F415.060.00	€ 66,00
F415.080.00	€ 82,50
F415.100.00	€ 105,50
F415.120.00	€ 137,00
F415.140.00	€ 168,00
F415.160.00	€ 250,50
F415.200.00	€ 361,00
F415.250.00	€ 626,00

F416

F416.030.00	€ 47,50
F416.040.00	€ 47,50
F416.050.00	€ 47,50
F416.060.00	€ 47,50
F416.080.00	€ 64,00
F416.100.00	€ 94,50
F416.120.00	€ 117,50
F416.140.00	€ 155,00
F416.160.00	€ 203,50
F416.200.00	€ 309,50

F418

F418.040.02	€ 46,00
F418.040.05	€ 46,00
F418.040.10	€ 46,00
F418.050.05	€ 46,00
F418.050.10	€ 46,00
F418.050.15	€ 46,00
F418.060.05	€ 46,00
F418.060.10	€ 46,00
F418.060.15	€ 46,00
F418.060.20	€ 46,00
F418.080.05	€ 62,50
F418.080.10	€ 62,50
F418.080.15	€ 62,50
F418.080.20	€ 62,50
F418.100.05	€ 91,00
F418.100.10	€ 91,00
F418.100.15	€ 91,00
F418.100.20	€ 91,00



F418.120.05	€ 114,00
F418.120.10	€ 114,00
F418.120.15	€ 114,00
F418.120.20	€ 114,00
F418.140.10	€ 152,00
F418.140.20	€ 152,00
F418.160.10	€ 198,00
F418.160.15	€ 198,00
F418.160.20	€ 198,00
F418.160.25	€ 198,00
F418.180.15	€ 273,00
F418.180.25	€ 273,00
F418.200.10	€ 300,50
F418.200.15	€ 300,50
F418.200.20	€ 300,50
F418.200.25	€ 300,50
F418.200.30	€ 300,50
F418.200.40	€ 300,50
F418.200.50	€ 300,50

F419

F419.030.00	€ 65,00
F419.040.00	€ 65,00
F419.050.00	€ 65,00
F419.060.00	€ 65,00
F419.080.00	€ 73,50
F419.100.00	€ 99,50
F419.120.00	€ 125,50
F419.140.00	€ 166,00
F419.160.00	€ 197,50
F419.180.00	€ 223,50
F419.200.00	€ 284,00
F419.250.00	€ 431,00

F420

F420.040.00	€ 89,50
F420.050.00	€ 89,50
F420.060.00	€ 93,50
F420.070.00	€ 99,50
F420.080.00	€ 108,00
F420.090.00	€ 108,50
F420.100.00	€ 120,00

F420.120.00	€ 137,50
F420.140.00	€ 182,00
F420.160.00	€ 237,50
F420.200.00	€ 370,50
F420.250.00	€ 591,00

F421

F421.030.00	€ 47,50
F421.040.00	€ 47,50
F421.050.00	€ 47,50
F421.060.00	€ 47,50
F421.080.00	€ 64,00
F421.100.00	€ 94,50
F421.120.00	€ 117,50
F421.140.00	€ 155,00
F421.160.00	€ 203,50
F421.200.00	€ 309,50

F423

F423.020.01	€ 56,50
F423.020.02	€ 56,50
F423.020.03	€ 56,50
F423.020.04	€ 56,50
F423.020.05	€ 56,50
F423.030.01	€ 56,50
F423.030.02	€ 56,50
F423.030.03	€ 56,50
F423.030.04	€ 56,50
F423.030.05	€ 56,50
F423.030.10	€ 56,50
F423.040.01	€ 56,50
F423.040.02	€ 56,50
F423.040.03	€ 56,50
F423.040.04	€ 56,50
F423.040.05	€ 56,50
F423.040.06	€ 56,50
F423.040.07	€ 56,50
F423.040.08	€ 56,50
F423.040.10	€ 56,50
F423.040.15	€ 56,50
F423.050.01	€ 56,50

F423.050.02	€ 56,50
F423.050.03	€ 56,50
F423.050.04	€ 56,50
F423.050.05	€ 56,50
F423.050.10	€ 56,50
F423.050.15	€ 56,50
F423.050.20	€ 56,50
F423.060.01	€ 56,50
F423.060.02	€ 56,50
F423.060.03	€ 56,50
F423.060.04	€ 56,50
F423.060.05	€ 56,50
F423.060.06	€ 56,50
F423.060.08	€ 56,50
F423.060.10	€ 56,50
F423.060.12	€ 56,50
F423.060.15	€ 56,50
F423.060.20	€ 56,50
F423.060.25	€ 56,50
F423.080.01	€ 60,50
F423.080.03	€ 66,50
F423.080.05	€ 66,50
F423.080.10	€ 66,50
F423.080.15	€ 66,50
F423.080.20	€ 66,50
F423.100.05	€ 89,50
F423.100.10	€ 89,50
F423.100.15	€ 89,50
F423.100.20	€ 89,50
F423.120.05	€ 124,00
F423.120.10	€ 124,00
F423.120.15	€ 124,00
F423.120.20	€ 124,00
F423.160.05	€ 202,00
F423.160.10	€ 202,00
F423.160.20	€ 202,00

F424

F424.060.01	€ 75,00
F424.060.02	€ 75,00
F424.060.03	€ 75,00



F424.060.04	€ 75,00
F424.060.05	€ 75,00
F424.060.06	€ 75,00
F424.060.10	€ 75,00
F424.060.15	€ 75,00
F424.060.20	€ 75,00
F424.080.05	€ 105,50
F424.080.10	€ 105,50
F424.080.15	€ 105,50
F424.080.20	€ 105,50
F424.100.10	€ 141,50
F424.100.15	€ 141,50
F424.100.20	€ 141,50
F424.120.05	€ 186,00
F424.120.10	€ 186,00
F424.120.15	€ 186,00
F424.120.20	€ 186,00
F424.160.20	€ 316,00

F425

F425.030.03	€ 63,50
F425.030.05	€ 63,50
F425.040.03	€ 71,50
F425.040.05	€ 71,50
F425.040.10	€ 71,50
F425.050.03	€ 73,00
F425.050.05	€ 73,00
F425.050.10	€ 73,00
F425.060.03	€ 76,50
F425.060.05	€ 76,50
F425.060.10	€ 76,50
F425.060.15	€ 76,50
F425.060.20	€ 76,50
F425.080.03	€ 79,50
F425.080.05	€ 79,50
F425.080.10	€ 79,00
F425.080.15	€ 79,50
F425.080.20	€ 79,50
F425.080.25	€ 79,50
F425.080.30	€ 79,50
F425.100.03	€ 114,50

F425.100.05	€ 114,50
F425.100.10	€ 114,50
F425.100.20	€ 114,50
F425.100.25	€ 114,50
F425.100.30	€ 114,50
F425.120.03	€ 122,50
F425.120.05	€ 122,50
F425.120.10	€ 122,50
F425.120.20	€ 122,50
F425.120.30	€ 122,50
F425.160.10	€ 174,50
F425.160.20	€ 174,50
F425.160.30	€ 174,50
F425.200.10	€ 269,50
F425.200.30	€ 269,50

F426

F426.030.03	€ 76,50
F426.030.05	€ 76,50
F426.040.03	€ 87,00
F426.040.05	€ 87,00
F426.040.10	€ 87,00
F426.050.03	€ 87,00
F426.050.05	€ 87,00
F426.050.15	€ 87,00
F426.060.03	€ 100,00
F426.060.05	€ 100,00
F426.060.10	€ 100,00
F426.060.15	€ 100,00
F426.060.20	€ 100,00
F426.060.25	€ 100,00
F426.080.03	€ 109,00
F426.080.05	€ 109,00
F426.080.10	€ 109,00
F426.080.20	€ 109,00
F426.080.30	€ 109,00
F426.100.03	€ 158,00
F426.100.05	€ 158,00
F426.100.10	€ 158,00
F426.100.20	€ 158,00
F426.100.25	€ 158,00
F426.120.05	€ 167,00

F426.120.10	€ 167,00
F426.120.20	€ 167,00
F426.120.25	€ 167,00
F426.120.30	€ 167,00
F426.160.10	€ 235,50
F426.160.20	€ 235,50
F426.160.30	€ 235,50

F427

F427.030.00	€ 33,50
F427.040.00	€ 35,00
F427.060.00	€ 43,00

F428

F428.002.00	€ 101,00
F428.003.00	€ 101,00
F428.005.00	€ 117,00
F428.010.00	€ 117,00
F428.015.00	€ 131,50
F428.020.00	€ 131,50
F428.025.00	€ 135,50
F428.030.00	€ 135,50
F428.035.00	€ 171,50
F428.040.00	€ 171,50
F428.045.00	€ 171,50
F428.050.00	€ 241,00
F428.060.00	€ 241,00
F428.080.00	€ 367,50
F428.100.00	€ 373,50

F429

F429.040.00	€ 30,50
F429.060.00	€ 37,50
F429.080.00	€ 49,00
F429.100.00	€ 56,50
F429.120.00	€ 84,00
F429.160.00	€ 143,00
F429.200.00	€ 216,50



F430

F430.010.00	€ 29,00
F430.020.00	€ 29,00
F430.030.00	€ 29,00
F430.040.00	€ 30,50
F430.060.00	€ 37,50
F430.080.00	€ 49,00
F430.100.00	€ 56,50
F430.120.00	€ 84,00
F430.160.00	€ 143,00
F430.200.00	€ 216,50

F433

F433.060.00	€ 105,50
F433.080.00	€ 114,00
F433.100.00	€ 123,50
F433.120.00	€ 151,50
F433.160.00	€ 230,50
F433.200.00	€ 337,50

F434

F434.030.100	€ 82,00
F434.040.100	€ 82,00
F434.050.100	€ 82,00
F434.060.100	€ 82,00
F434.060.150	€ 103,50
F434.080.100	€ 122,00
F434.080.150	€ 155,00
F434.100.100	€ 153,50
F434.100.150	€ 207,50
F434.120.100	€ 207,50
F434.120.150	€ 268,00

F600

F600.060.20	€ 79,00
F600.060.43	€ 98,50
F600.080.26	€ 94,00
F600.080.62	€ 108,00
F600.100.32	€ 143,00
F600.100.58	€ 173,00
F600.120.37	€ 174,50
F600.120.73	€ 220,50

F600.160.45	€ 327,50
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F600.160.100	€ 460,00
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F600.200.53	€ 494,50
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F601

F601.030.00	€ 50,50
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F601.031.00	€ 57,00
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F601.040.00	€ 50,50
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F601.041.00	€ 57,00
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F601.050.00	€ 50,50
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F601.051.00	€ 57,00
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F601.060.00	€ 50,50
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F601.061.00	€ 78,00
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F601.080.00	€ 62,00
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F601.081.00	€ 104,50
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F601.100.00	€ 99,50
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F601.101.00	€ 140,00
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F601.120.00	€ 133,00
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F601.121.00	€ 168,00
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F601.160.00	€ 238,00
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F601.161.00	€ 306,50
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F601.200.00	€ 339,00
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F601.201.00	€ 385,00
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F601.250.00	€ 520,50
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F602

F602.030.00	€ 33,50
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F602.040.00	€ 33,50
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F602.050.00	€ 33,50
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F602.060.00	€ 33,50
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F602.080.00	€ 43,50
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F602.100.00	€ 69,50
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F602.120.00	€ 94,00
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F602.140.00	€ 130,00
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F602.160.00	€ 170,50
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F602.180.00	€ 209,00
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F602.200.00	€ 238,00
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F602.250.00	€ 431,00
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F603

F603.060.00	€ 50,50
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F603.080.00	€ 65,00
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F603.100.00	€ 89,50
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F603.120.00	€ 130,00
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F603.120.02	€ 180,50
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F603.160.00	€ 231,00
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F603.160.02	€ 317,50
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F603.200.00	€ 353,50
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F603.200.02	€ 475,50
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F604

F604.030.00	€ 53,00
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F604.040.00	€ 53,00
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F604.050.00	€ 53,00
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F604.060.00	€ 53,00
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F604.080.00	€ 69,50
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F604.100.00	€ 95,50
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F604.120.00	€ 119,00
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F604.160.00	€ 198,00
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F604.200.00	€ 277,00
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F605

F605.060.00	€ 50,50
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F605.080.00	€ 65,00
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F605.100.00	€ 89,50
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F605.120.00	€ 130,00
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F605.120.02	€ 180,50
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F605.160.00	€ 231,00
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F605.160.02	€ 317,50
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F605.200.00	€ 353,50
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F605.200.02	€ 476,00
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FT330L

FT330L040-025R	€ 67,20
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FT330L040-050R	€ 67,20
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FT330L040-075R	€ 67,20
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FT330L040-100R	€ 67,20
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FT330L040-125R	€ 67,20
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FT330L040-150R	€ 67,20
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FT330L050-025R	€ 69,00
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FT330L050-050R	€ 69,00
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FT330L050-075R	€ 69,00
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FT330L050-100R	€ 69,00
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FT330L050-125R	€ 69,00
FT330L050-150R	€ 69,00
FT330L050-175R	€ 69,00
FT330L050-200R	€ 69,00
FT330L060-025R	€ 81,00
FT330L060-050R	€ 81,00
FT330L060-075R	€ 81,00
FT330L060-100R	€ 81,00
FT330L060-125R	€ 81,00
FT330L060-150R	€ 81,00
FT330L060-175R	€ 81,00
FT330L060-200R	€ 81,00
FT330L060-250R	€ 81,00
FT330L080-025R	€ 111,00
FT330L080-050R	€ 111,00
FT330L080-075R	€ 111,00
FT330L080-100R	€ 111,00
FT330L080-125R	€ 111,00
FT330L080-150R	€ 111,00
FT330L080-175R	€ 111,00
FT330L080-200R	€ 111,00
FT330L080-250R	€ 111,00
FT330L100-025R	€ 156,00
FT330L100-050R	€ 156,00
FT330L100-075R	€ 156,00
FT330L100-100R	€ 156,00
FT330L100-125R	€ 156,00
FT330L100-150R	€ 156,00
FT330L100-175R	€ 156,00
FT330L100-200R	€ 156,00
FT330L100-250R	€ 156,00
FT330L100-300R	€ 156,00

FT330N

FT330N040-025R	€ 51,60
FT330N040-050R	€ 51,60
FT330N040-075R	€ 51,60
FT330N040-100R	€ 51,60
FT330N040-125R	€ 51,60
FT330N040-150R	€ 51,60
FT330N050-025R	€ 57,00

FT330N050-050R	€ 57,00
FT330N050-075R	€ 57,00
FT330N050-100R	€ 57,00
FT330N050-125R	€ 57,00
FT330N050-150R	€ 57,00
FT330N050-175R	€ 57,00
FT330N050-200R	€ 57,00
FT330N060-025R	€ 63,60
FT330N060-050R	€ 63,60
FT330N060-075R	€ 63,60
FT330N060-100R	€ 63,60
FT330N060-125R	€ 63,60
FT330N060-150R	€ 63,60
FT330N060-175R	€ 63,60
FT330N060-200R	€ 63,60
FT330N060-250R	€ 63,60
FT330N080-025R	€ 90,00
FT330N080-050R	€ 90,00
FT330N080-075R	€ 90,00
FT330N080-100R	€ 90,00
FT330N080-125R	€ 90,00
FT330N080-150R	€ 90,00
FT330N080-175R	€ 90,00
FT330N080-200R	€ 90,00
FT330N080-250R	€ 90,00
FT330N100-025R	€ 115,80
FT330N100-050R	€ 115,80
FT330N100-075R	€ 115,80
FT330N100-100R	€ 115,80
FT330N100-125R	€ 115,80
FT330N100-150R	€ 115,80
FT330N100-175R	€ 115,80
FT330N100-200R	€ 115,80
FT330N100-250R	€ 115,80
FT330N100-300R	€ 115,80

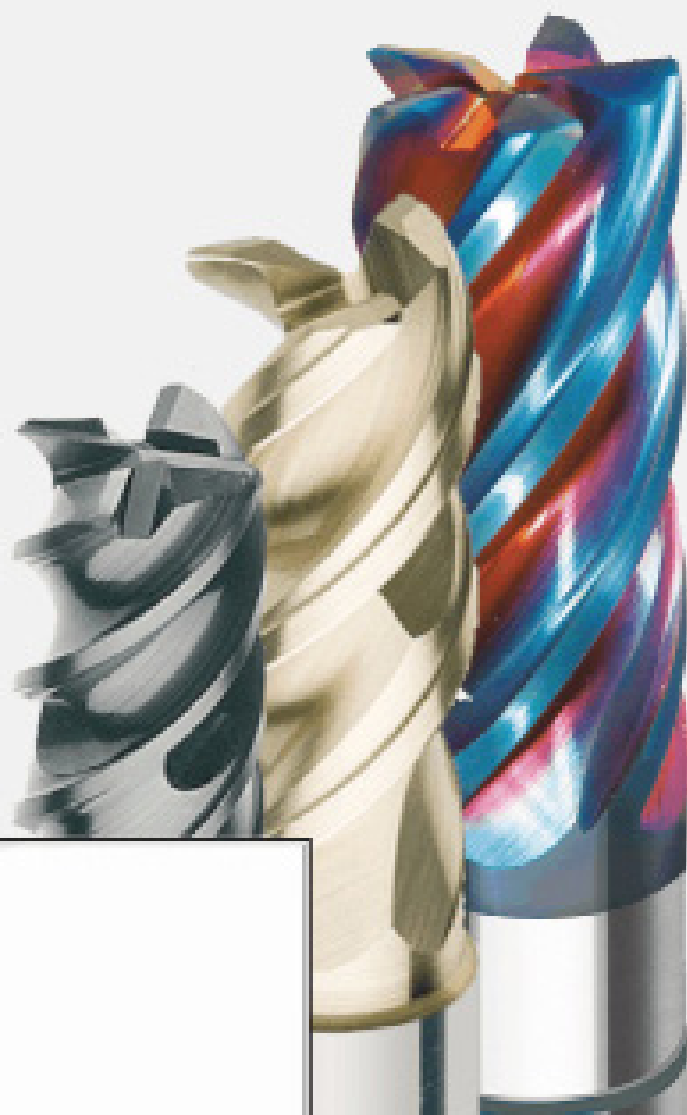
FEPP

FEPP 060 HC	€ 36,00
FEPP 060 050 HC	€ 44,00
FEPP 060 100 HC	€ 44,00
FEPP 080 HC	€ 54,00
FEPP 080 050 HC	€ 62,00

FEPP 080 100 HC	€ 62,00
FEPP 100 HC	€ 81,00
FEPP 100 050 HC	€ 87,00
FEPP 100 100 HC	€ 87,00
FEPP 120 HC	€ 94,00
FEPP 120 050 HC	€ 100,00
FEPP 120 100 HC	€ 100,00
FEPP 120 200 HC	€ 100,00
FEPP 160 HC	€ 144,00
FEPP 160 050 HC	€ 150,00
FEPP 160 100 HC	€ 150,00
FEPP 160 200 HC	€ 150,00

SM45

SM45040	€ 45,00
SM45060	€ 48,00
SM45080	€ 81,00
SM45100	€ 96,00
SM45120	€ 116,00
SM45160	€ 168,00



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