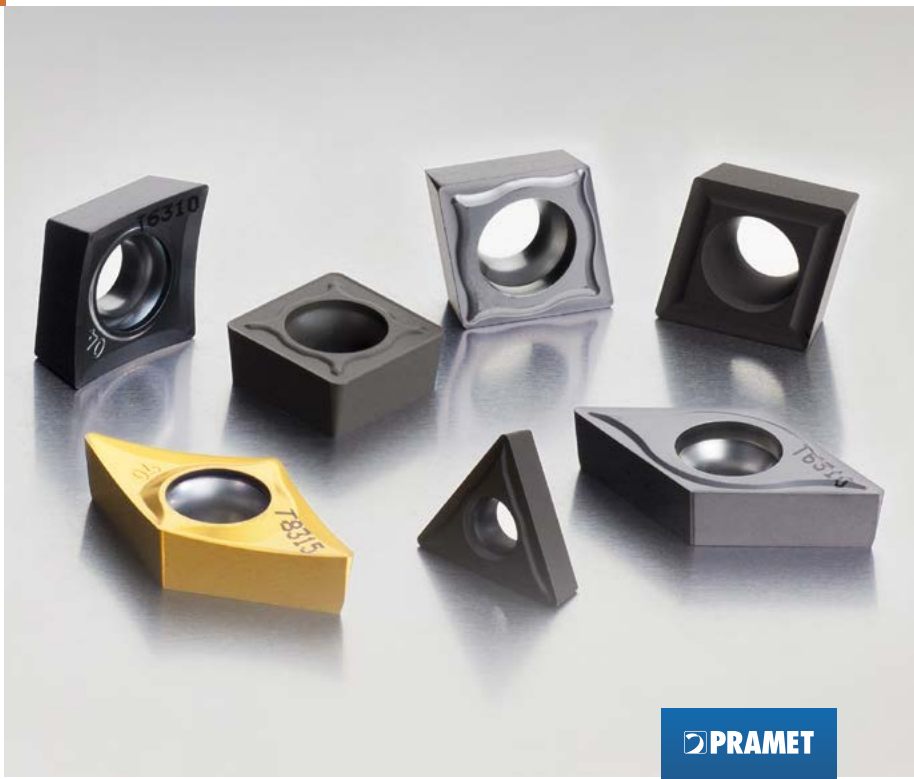
DORMER PRAMET

SOUSTRUŽNICKÉ UTVAŘEČE

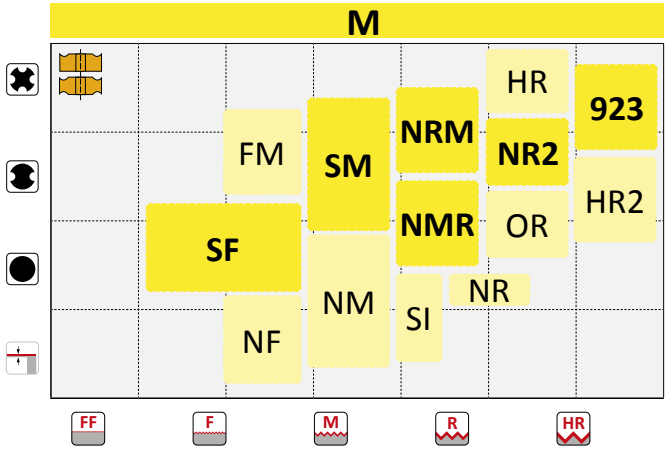
Upínací systémy ISO P, D, M, S



PRAMET

Skupina, podskupina		DORMER AMG	Definice podskupiny
P	P1	1.1, 1.2	Oceli a ocelolitiny s velmi dobrou (zlepšenou) obrobitelností, automatové a nízkouhlíkové oceli
	P2	1.3	Nelegované a nízkolegované ocelolitiny a oceli se středním obsahem uhlíku (0,25 <C<0,55) s pevností do 900 MPa a tvrdostí v rozsahu 160-255HB
	P3	1.4	Hůře obrobitelné nelegované a nízkolegované ocelolitiny a oceli se středním obsahem uhlíku s pevností do 1000 MPa a tvrdostí do 300HB
	P4	1.5	Středně až vysoce legované ocelolitiny a oceli (většinou s obsahem uhlíku 0,55 <C), pevnost do 1270 MPa a tvrdost do 375HB resp. 40HRC
M	M1	2.1	Feritické korozivzdorné oceli
	M2	(2.1, 2.4)	Martenzitické korozivzdorné oceli
	M3	2.2	Austenitické korozivzdorné oceli
	M4	2.3, 2.4	Feriticko-austenitické (duplexní) a superaustenitické korozivzdorné oceli
K	K1	3.1, 3.2	Šedé litiny
	K2	3.1, 3.2	Temperované litiny
	K3	3.3	Tvárné litiny feritické a feriticko-perlitické
	K4	3.4	Tvárné litiny perliticko-feritické, perliticko-sorbitické a perlitické
N	N1	7.1	Hliník a jeho měkké slitiny Al (s nízkým obsahem Si) zejména tvářené a lité (nevytvrzené), tvrdost do 100HB
	N2	7.2, 7.3, 7.4	Tvrdé slitiny Al, zejména lité vytvrzené (s vysokým obsahem Si)
	N3	6.1, 6.2, 6.3	Měkké slitiny Cu, automatová mosaz a ostatní měkké mosazi a bronzy
	N4	6.4	Hůře obrobitelné a tvrdé slitiny Cu
S	S1	4.1, 4.2, 4.3	Technicky čistý Ti , slitiny α, $\alpha + \beta$ a β, slitiny zušlechtěné a stárnuté
	S2	(9.1)	Slitiny na bázi Fe
	S3	5.1, 5.2, 5.3	Slitiny na bázi Ni
	S4	(9.1)	Slitiny na bázi Co
H	H1	1.6	Vysoce pevné a tvrdé nástrojové oceli a kalené a zušlechtěné oceli o tvrdosti 40-50HRC
	H2	–	Tvrzená a bílá litina 350-600HV
	H3	1.7	Kalené a zušlechtěné oceli o tvrdosti v rozmezí 50-55HRC
	H4	1.8	Kalené a zušlechtěné (převážně nástrojové) oceli o tvrdosti vyšší než 55HRC

Schematické zařazení utvařečů pro korozivzdorné oceli (M) s ohledem na posuv (f), hloubku řezu (a_p) a záběrové podmínky.

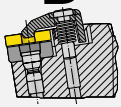
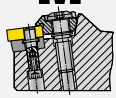


	Těžké záběrové podmínky
	Mírně zhoršené záběrové podmínky
	Stabilní záběrové podmínky
	Slabostěnné nebo labilní obrobky

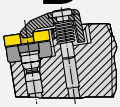
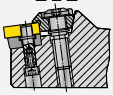
■	Prioritní užití
◪	Možné užití
-	Není doporučeno

	f	a_p
FF F	0,05 – 0,2 mm/ot	0,05 – 2 mm
M	0,2 – 0,4 mm/ot	2 – 4 mm
R	0,4 – 1,0 mm/ot	4 – 10 mm
HR	> 1,0 mm/ot	> 10 mm

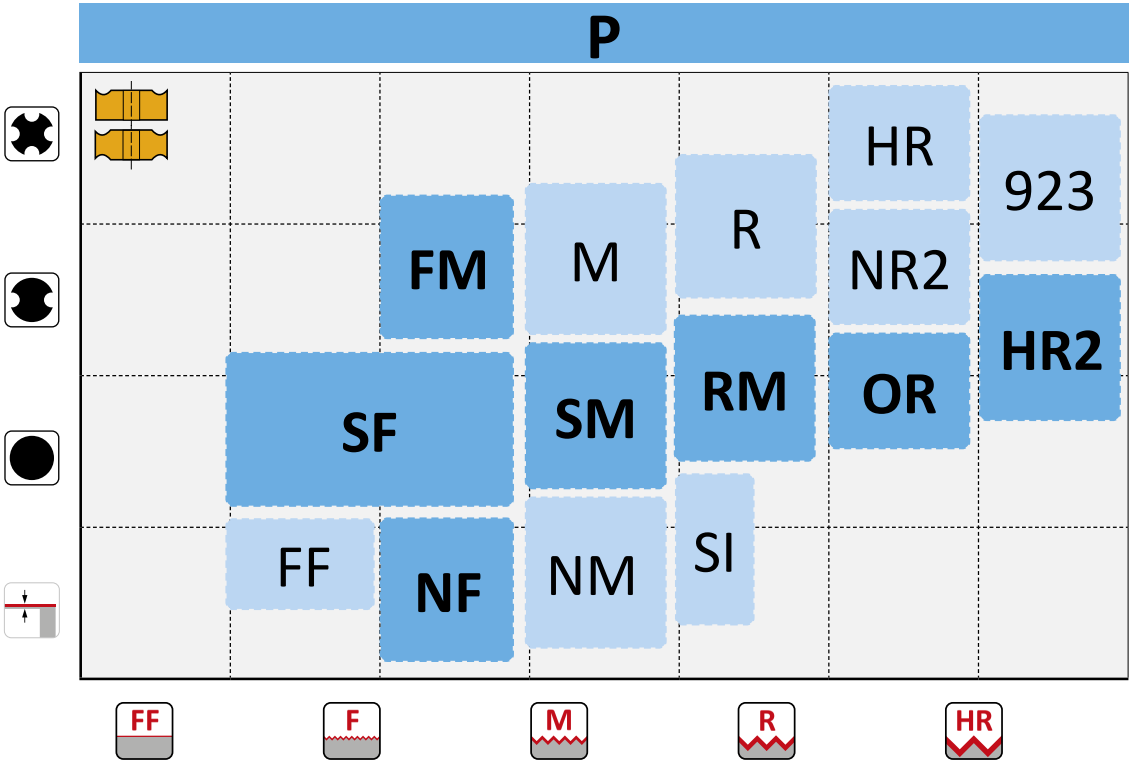
UPÍNACÍ SYSTÉM ISO P, D, M

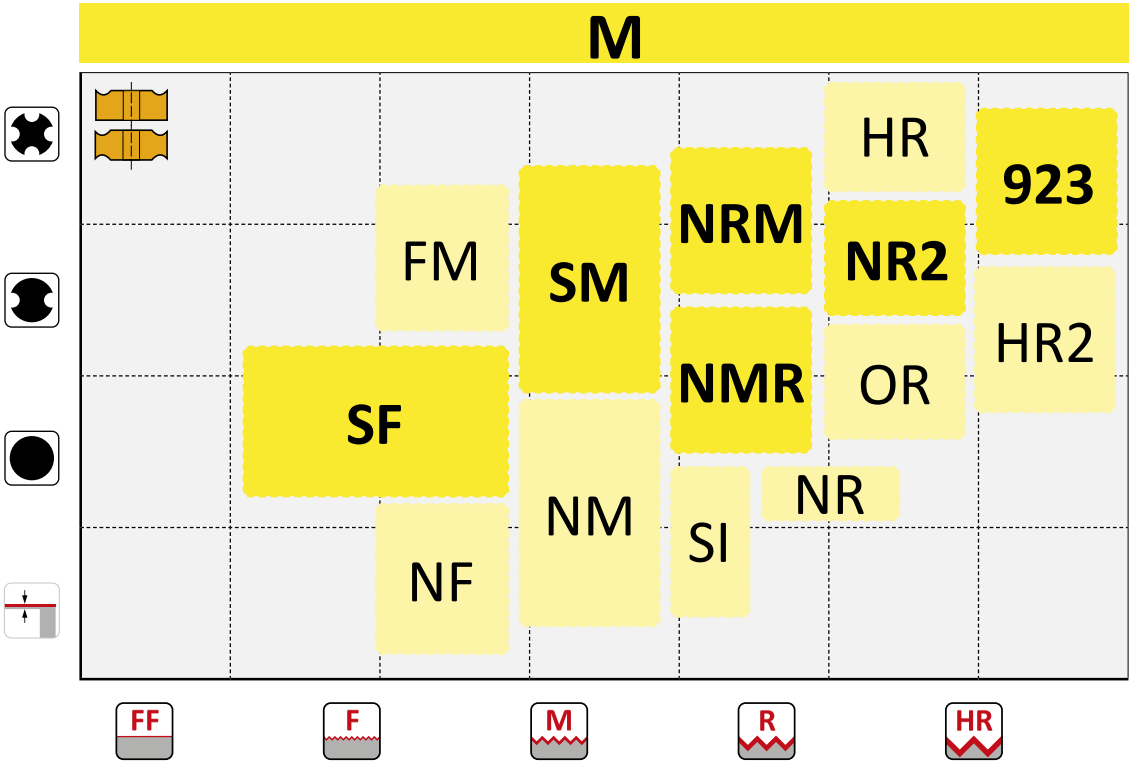




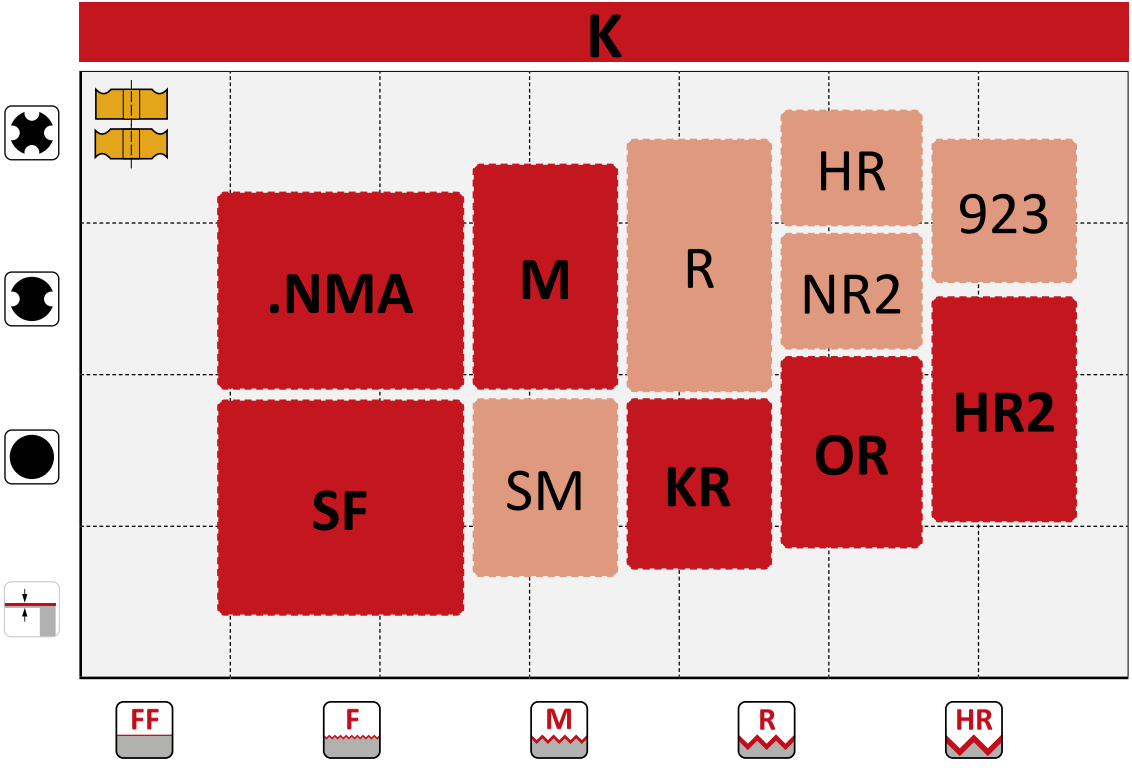
Utvařeč	$\geq f_{min}$ (mm/ot)	S	C	W	T	D	V	
FF	0,06		✓	✓	✓	✓	✓	10
SF	0,08	✓	✓	✓	✓	✓	✓	11
...A	0,10	✓	✓	✓	✓	✓		12
NF	0,10	✓	✓	✓	✓	✓	✓	13
FM	0,15	✓	✓	✓	✓	✓	✓	14
NM	0,15		✓	✓	✓	✓	✓	15
SM	0,15	✓	✓	✓	✓	✓	✓	16
M	0,17	✓	✓	✓	✓	✓	✓	17
NMR	0,18	✓	✓	✓	✓	✓	✓	18
KR	0,20	✓	✓	✓	✓			19
SI	0,20		✓	✓	✓	✓		20
NRM	0,23	✓	✓	✓		✓		21
R	0,30	✓	✓	✓	✓	✓		22
RM	0,30	✓	✓	✓	✓	✓		23

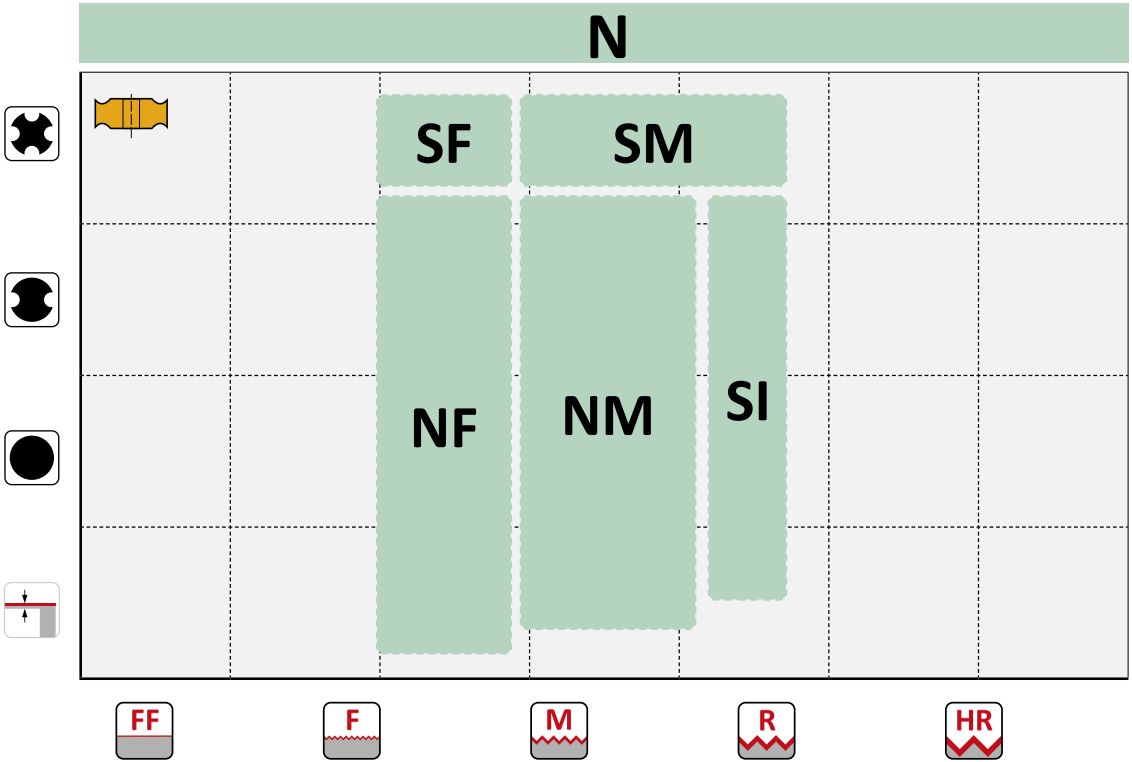




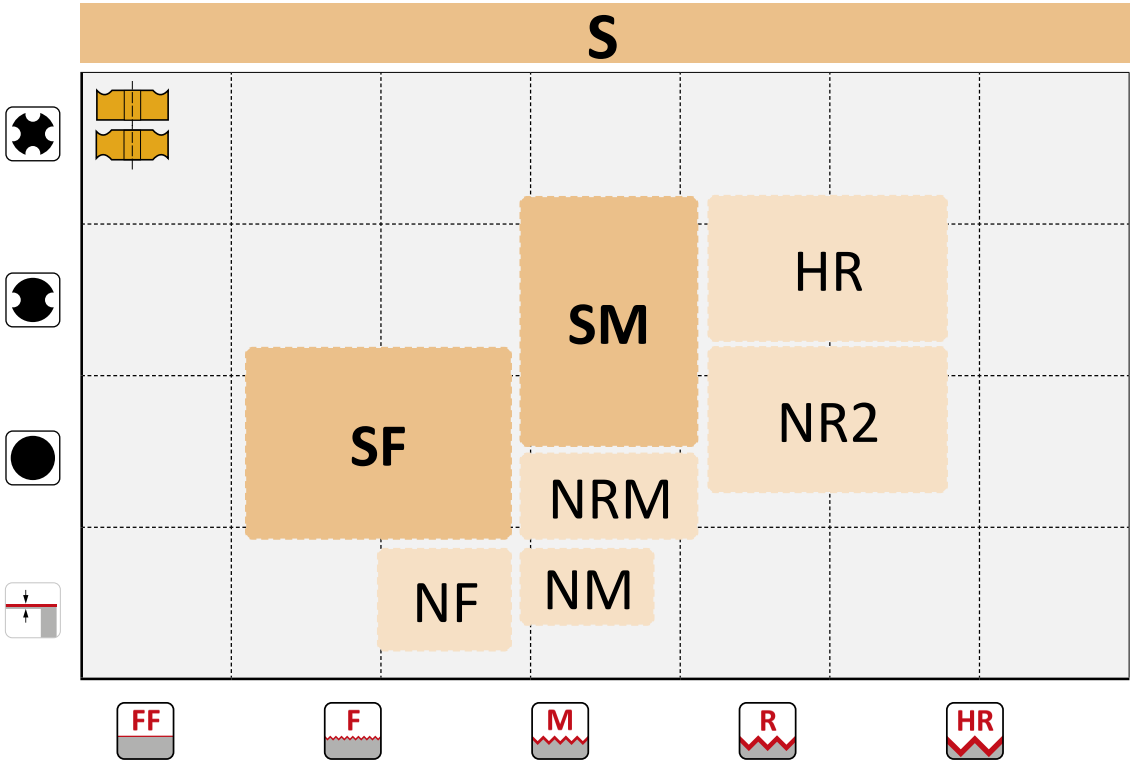
Utvařeč	≥ f_{min} (mm/ot)	S	C	W	T	D	V	📖
NR	0,25	✓	✓	✓	✓	✓		24
NR2	0,25	✓	✓	✓	✓	✓		25
OR	0,25	✓	✓	✓	✓	✓		26
DR	0,30	✓	✓	✓	✓			27
NRM	0,32	✓	✓					28
OR1	0,37	✓	✓					29
923	0,45	✓	✓					30
HR	0,50	✓	✓		✓			31
HR2	0,50	✓	✓					32
SR	0,70	✓						33
W-F	0,15		✓	✓				37
W-NM	0,15		✓	✓		✓		38
W-M	0,17		✓	✓				39
W-MR	0,20		✓	✓		✓		40

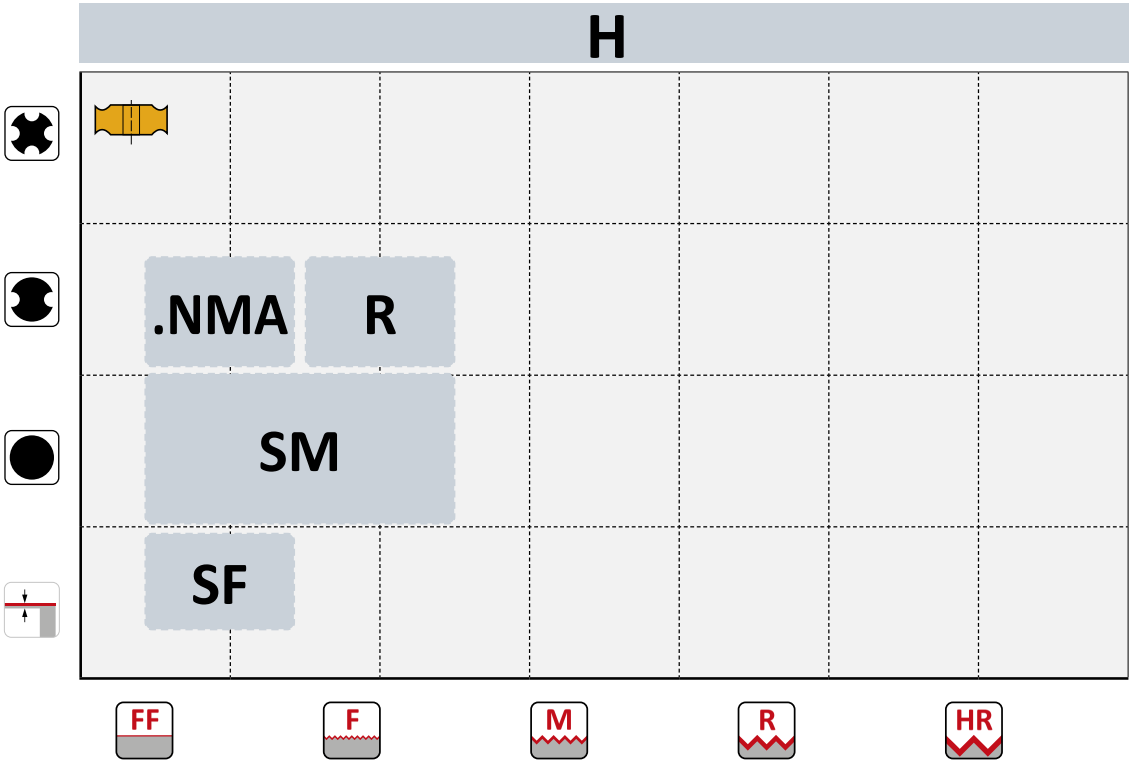

P
HR
923
R
NR2
FM
M
HR2
RM
OR
SF
SM
SI
FF
NF
NM
FF
F
M
R
HR


M
FM
SM
NRM
HR
923
NR2
HR2
SF
NMR
OR
NM
SI
NR
NF
FF
F
M
R
HR

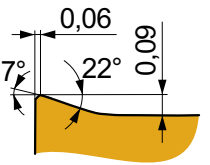

K
.NMA
M
R
HR
923
NR2
HR2
SF
SM
KR
OR
FF
F
M
R
HR


N
SF
SM
NF
NM
SI
FF
F
M
R
HR

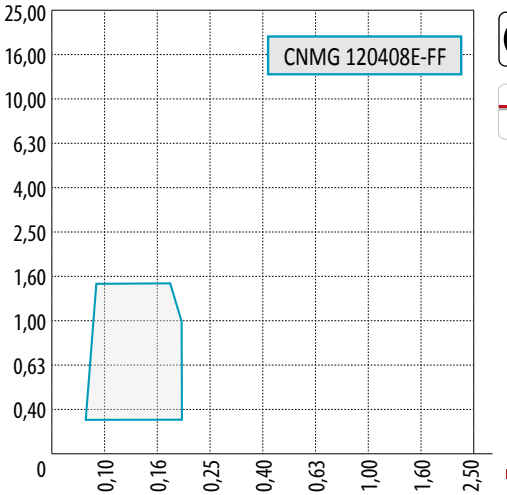

S
SM
HR
SF
NR2
NRM
NF
NM
FF
F
M
R
HR


H
.NMA
R
SM
SF
FF
F
M
R
HR

FF

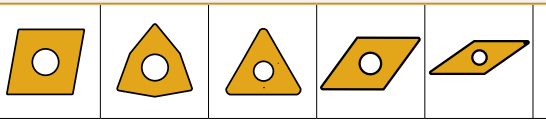


CNMG 120408E-FF

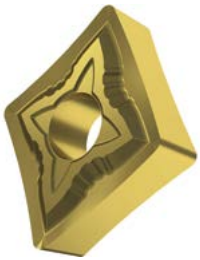


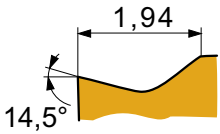
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	◪
	N3	◪
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	◪
	H4	

CNMG **WNMG** **TNMG** **DNMG** **VNMG**



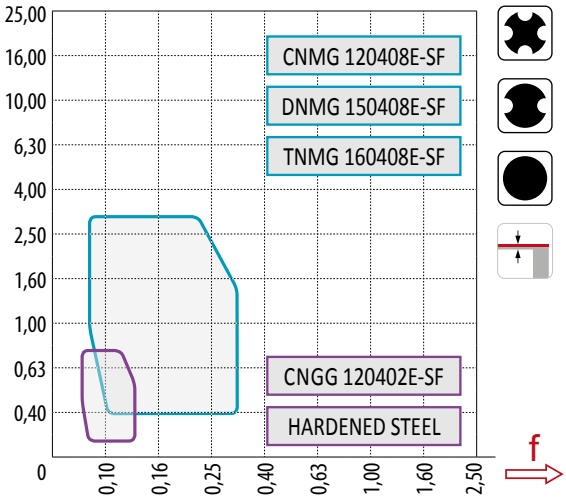
SF

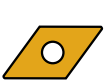
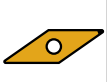




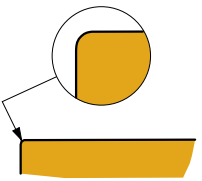
CNMG 120408E-SF

P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	
	H3	■
	H4	■

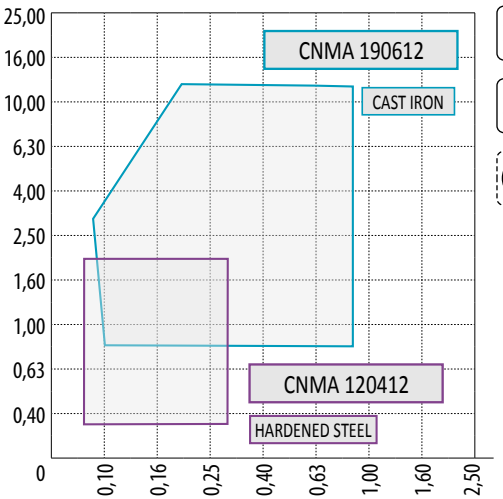


SNMG	CNMG CNGG	WNMG	TNMG	DNMG	VNMG
					

...A



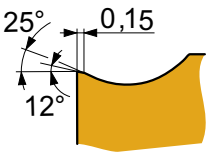
CNMA 190612



P	P1	
	P2	
	P3	
	P4	
M	M1	
	M2	
	M3	
	M4	
K	K1	■
	K2	■
	K3	◪
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	■
	H3	◪
	H4	■

SNMA	CNMA	WNMA	TNMA	DNMA		
						

NF



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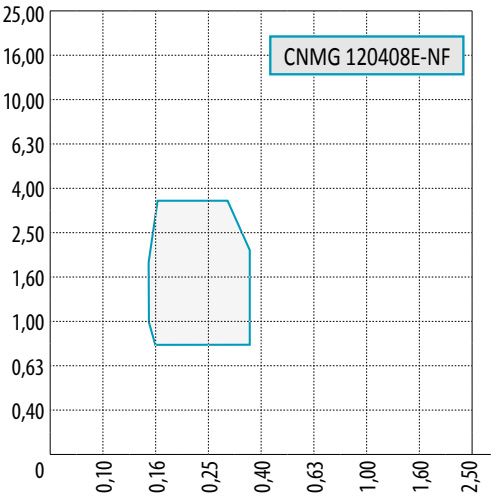
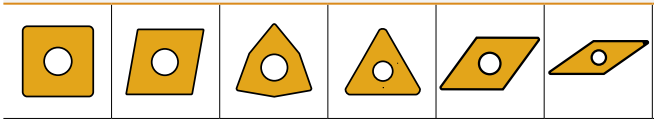
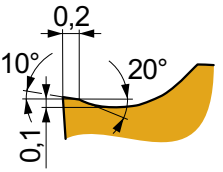


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	■
	H2	
	H3	◪
	H4	

SNMG **CNMG** **WNMG** **TNMG** **DNMG** **VNMG**



FM



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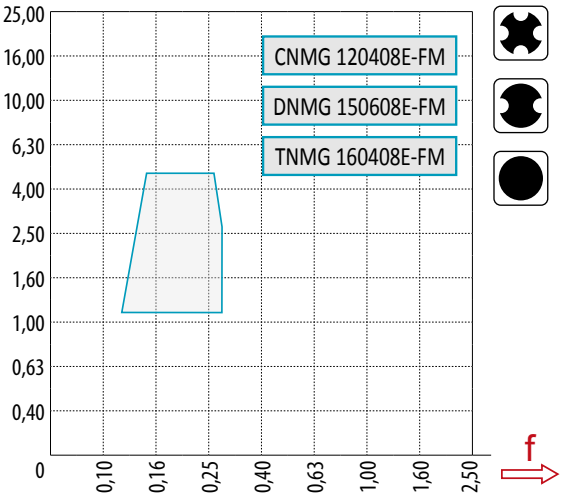
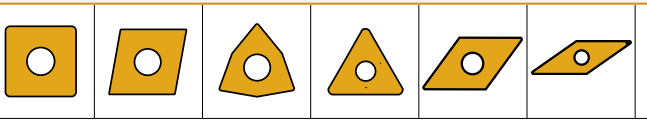
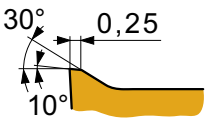


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	■
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	■
	H2	◪
	H3	■
	H4	◪

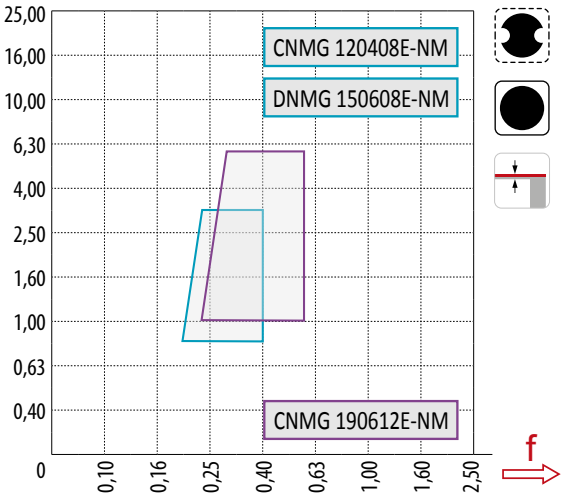
SNMG **CNMG** **WNMG** **TNMG** **DNMG** **VNMG**



NM



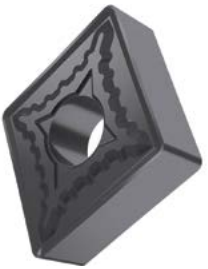
CNMG 120408E-NM

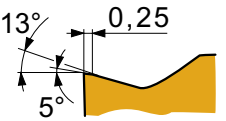


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	◪
	K4	
N	N1	◪
	N2	■
	N3	■
	N4	◪
S	S1	■
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

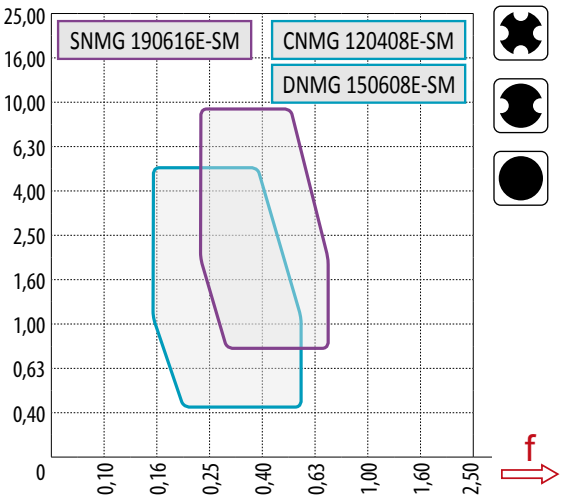
SNMG	CNMG	WNMG	TNMG	DNMG	VNMG
					

SM

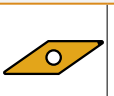




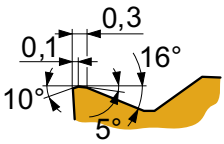
CNMG 120408E-SM



P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	■
	H3	■
	H4	■

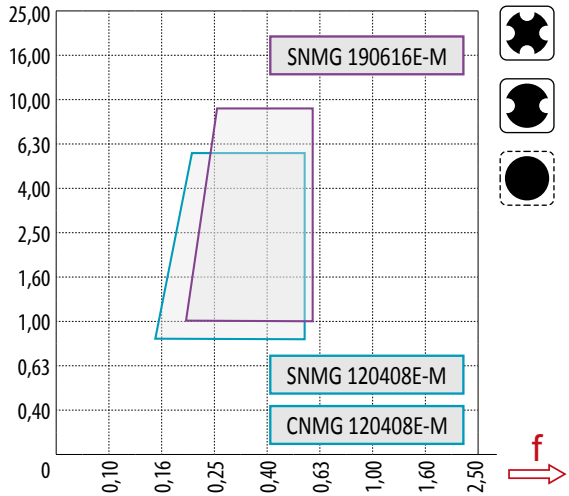
SNMG	CNMG	WNMG	TNMG	DNMG	VNMG
					

M

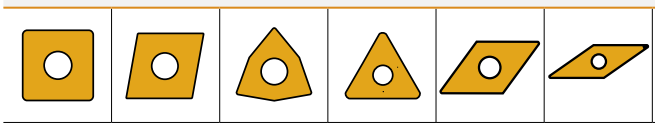


CNMG 120408E-M

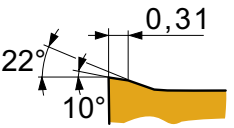
P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	
	M2	◪
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	■
	H4	◪



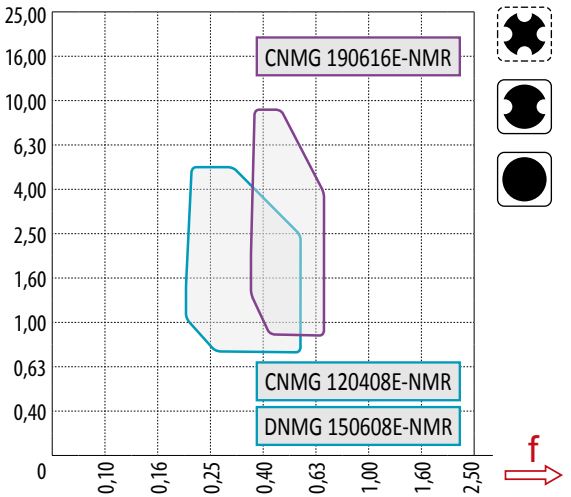
SNMG **CNMG** **WNMG** **TNMG** **DNMG** **VNMG**



NMR

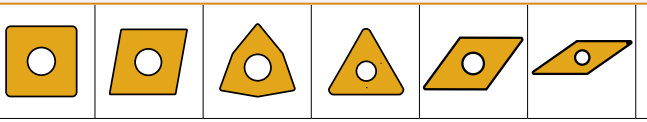


CNMG 120408E-NMR

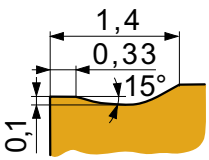


P	P1	■
	P2	■
	P3	■
	P4	◪
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	■
	K4	
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

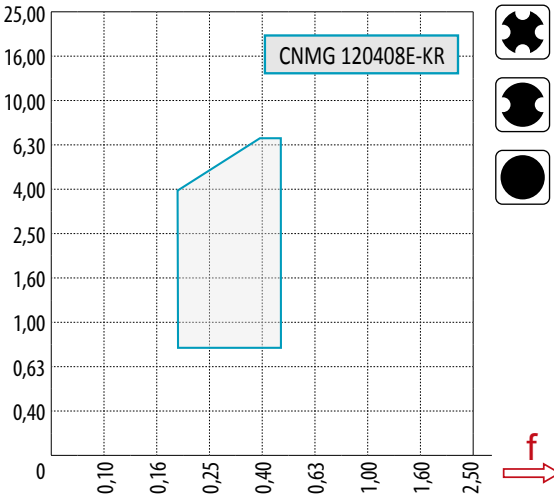
SNMG **CNMG** **WNMG** **TNMG** **DNMG** **VNMG**



KR



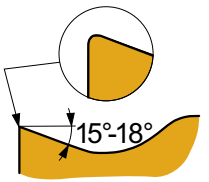
CNMG 120408E-KR



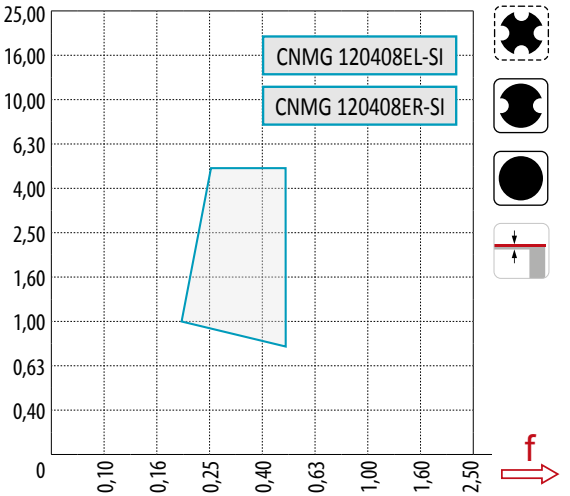
P	P1	
	P2	
	P3	
	P4	◪
M	M1	
	M2	
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	◪
	H2	■
	H3	◪
	H4	

SNMG **CNMG** **WNMG** **TNMG**

SI

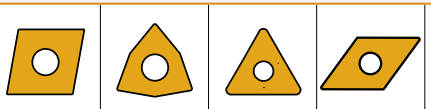


CNMG 120408ER-SI

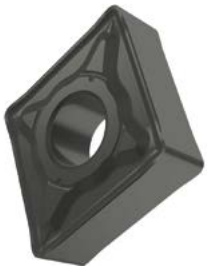


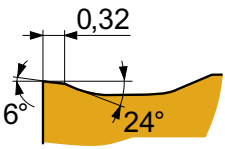
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	
	K4	
N	N1	◪
	N2	■
	N3	◪
	N4	■
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

CNMG WNMG TNMG DNMG

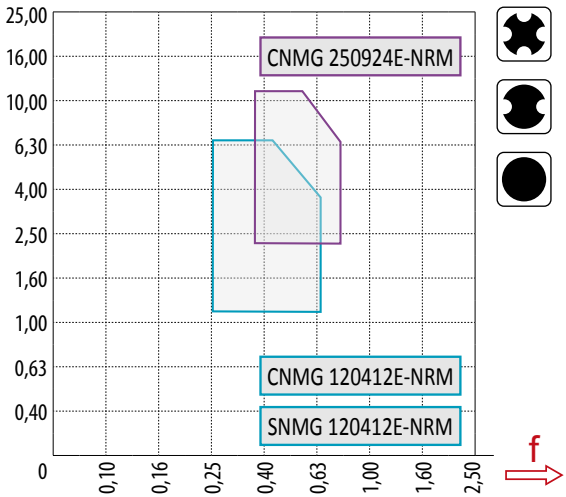


NRM





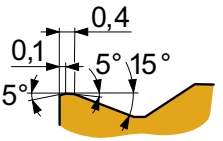
CNMG 120412E-NRM



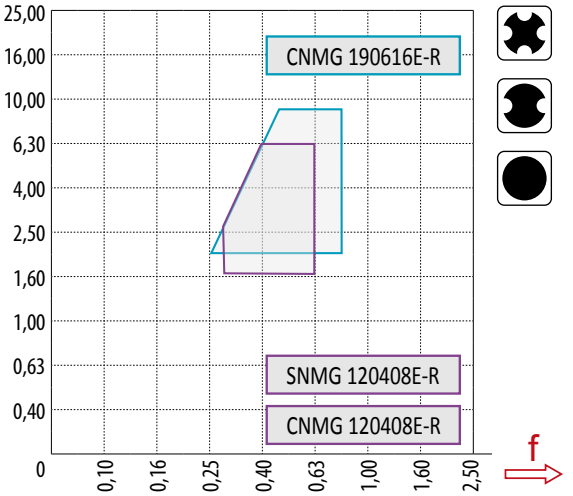
P	P1	■
	P2	■
	P3	■
	P4	◪
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	■
	K4	
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

SNMG **CNMG** **WNMG** **DNMG**

R

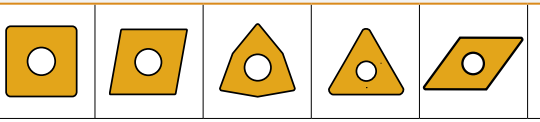


CNMG 190616E-R

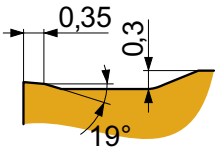


P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	■
	H4	◪

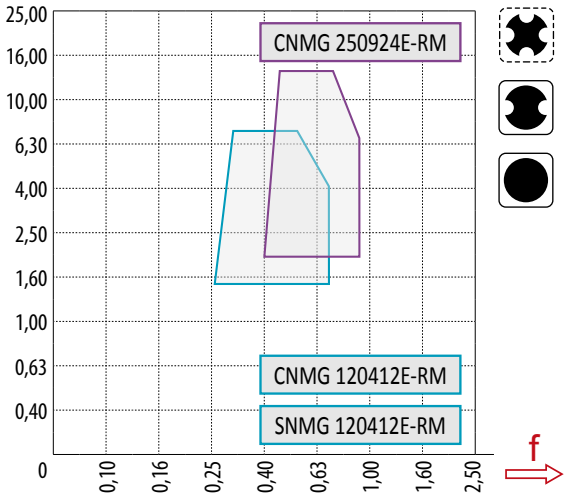
SNMG **CNMG** **WNMG** **TNMG** **DNMG**



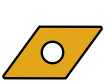
RM



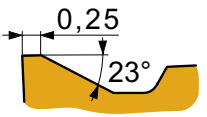
CNMG 120408E-RM



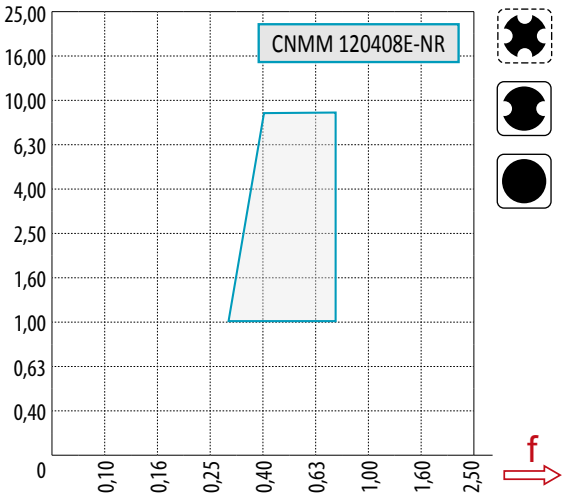
P	P1	■
	P2	■
	P3	■
	P4	◪
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

SNMG	CNMG	WNMG	TNMG	DNMG		
						

NR



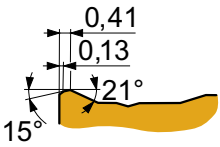
CNMM 120408E-NR



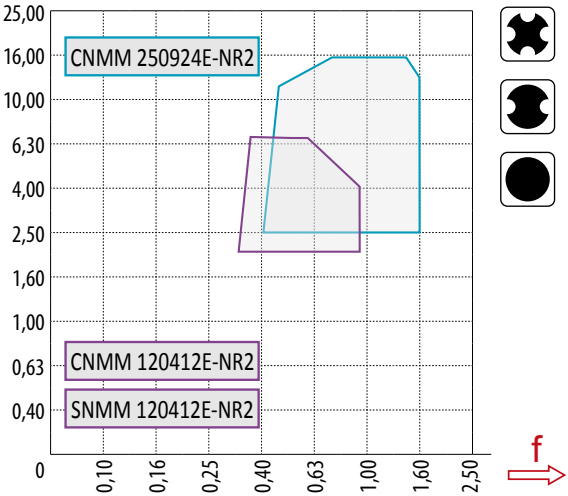
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

SNMM CNMM WNMM DNMM

NR2

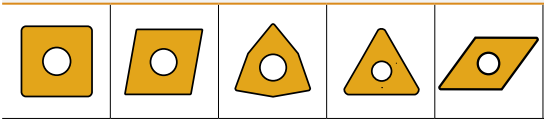


CNMM 250924E-NR2

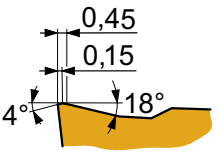


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

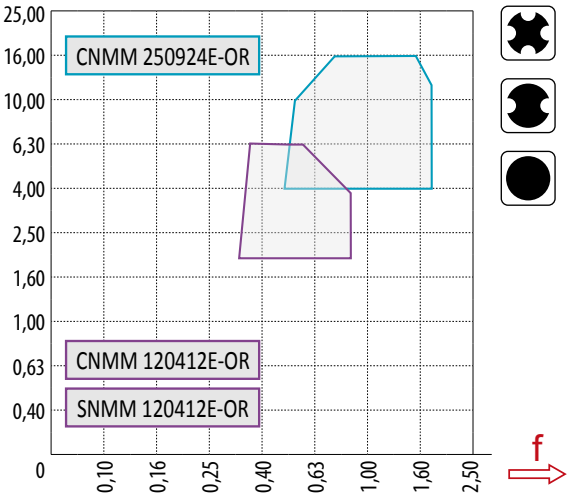
SNMM **CNMM** **WNMM** **TNMM** **DNMM**



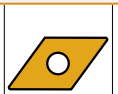
OR



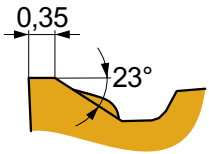
CNMM 250924E-OR



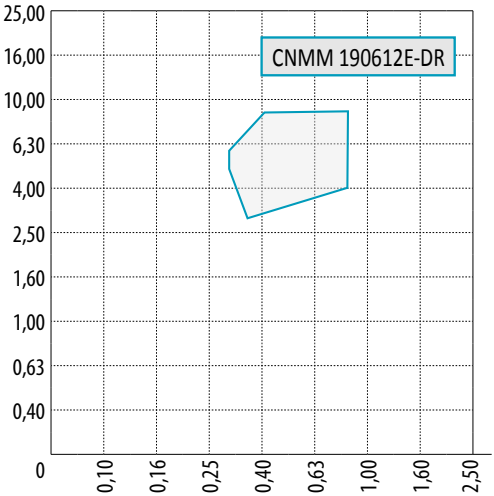
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	◪
	H2	
	H3	
	H4	

SNMM	CNMM	WNMM	TNMM	DNMM		
						

DR

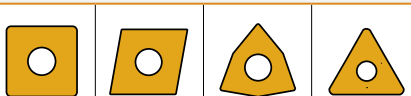


CNMM 190616-DR

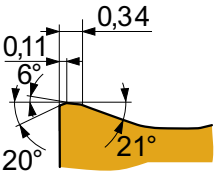


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

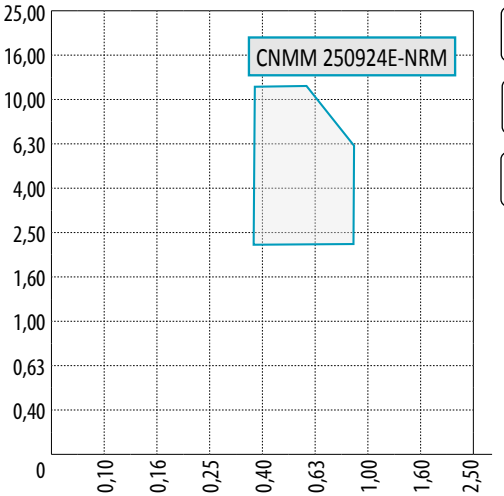
SNMM CNMM WNMM TNMM



NRM



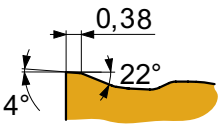
CNMM 250924E-NRM



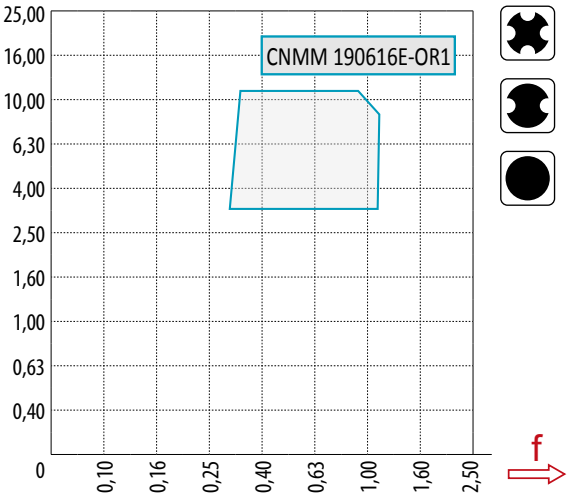
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	◪
	H2	
	H3	
	H4	

SNMM **CNMM**

OR1

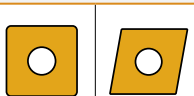


CNMM 190616E-OR1

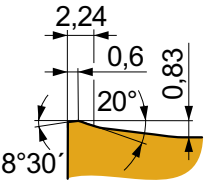


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	◪
	H2	
	H3	
	H4	

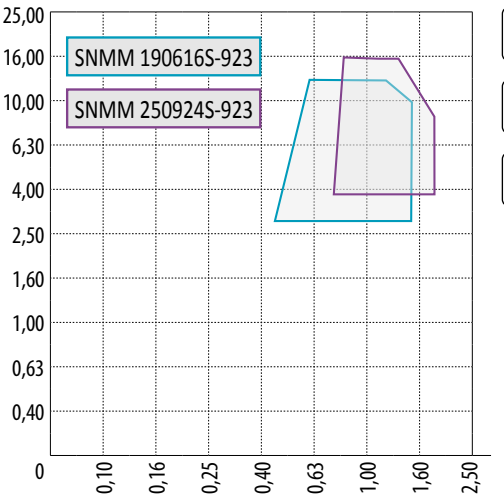
SNMM **CNMM**



923



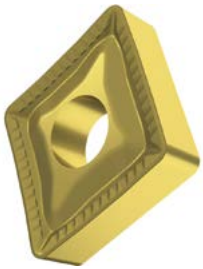
SNMM 250924S-923

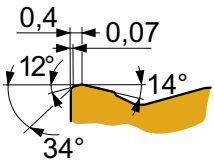


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

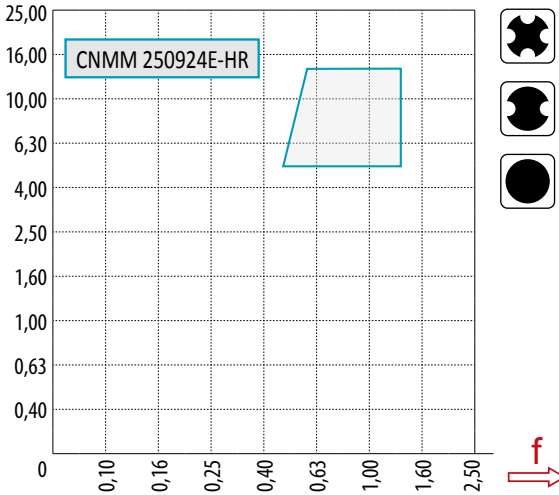
SNMM **CNMM**

HR





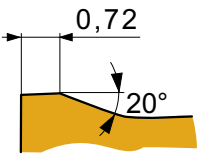
CNMM 250924E-HR



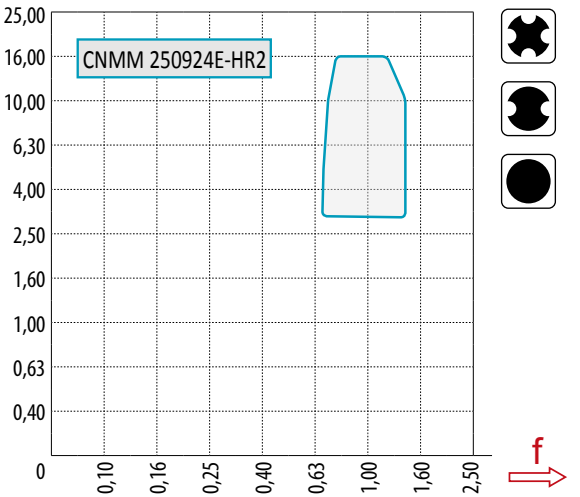
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

SNMM CNMM TNMM

HR2



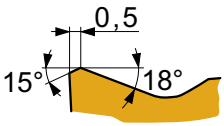
CNMM 250924E-HR2



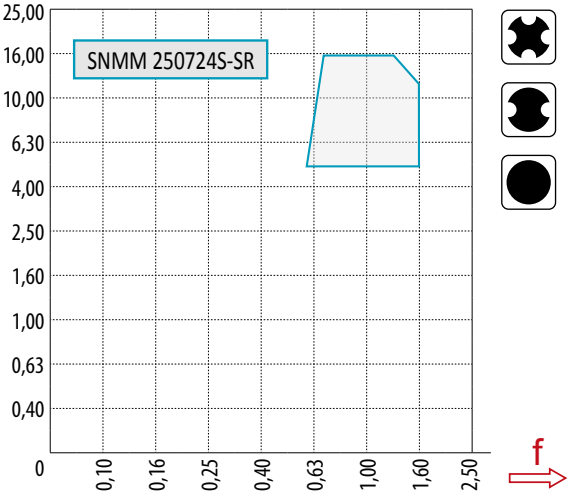
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

SNMM **CNMM**

SR

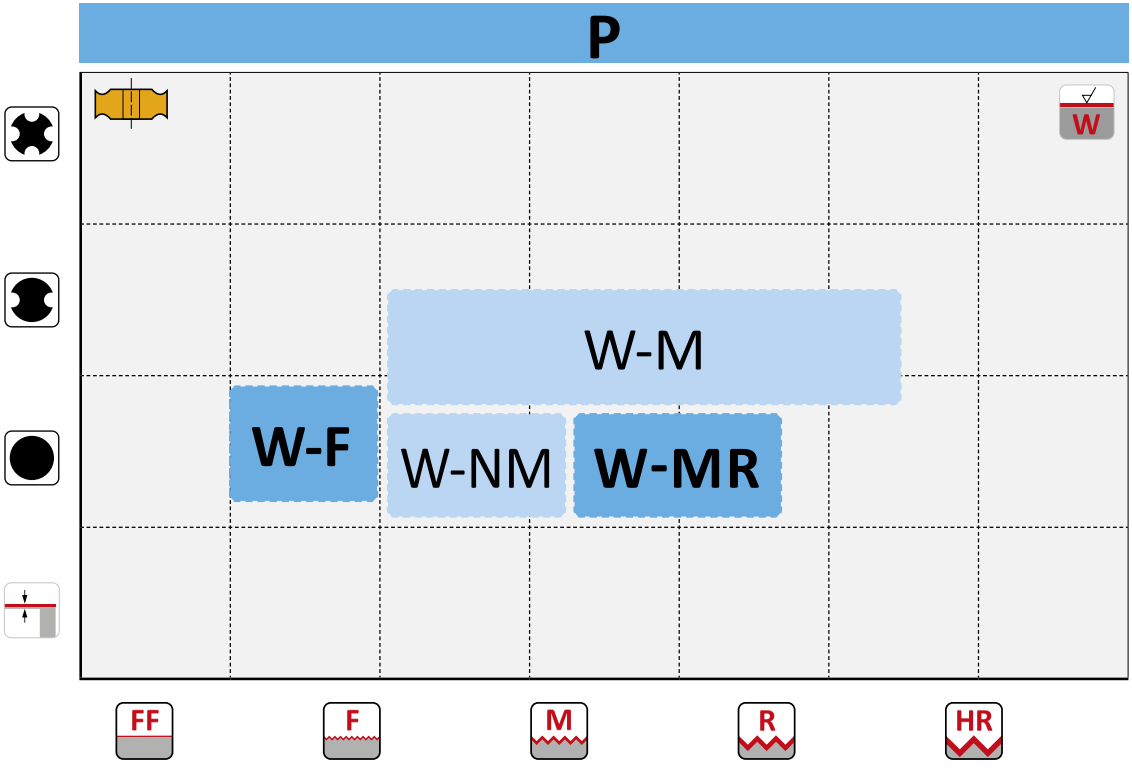


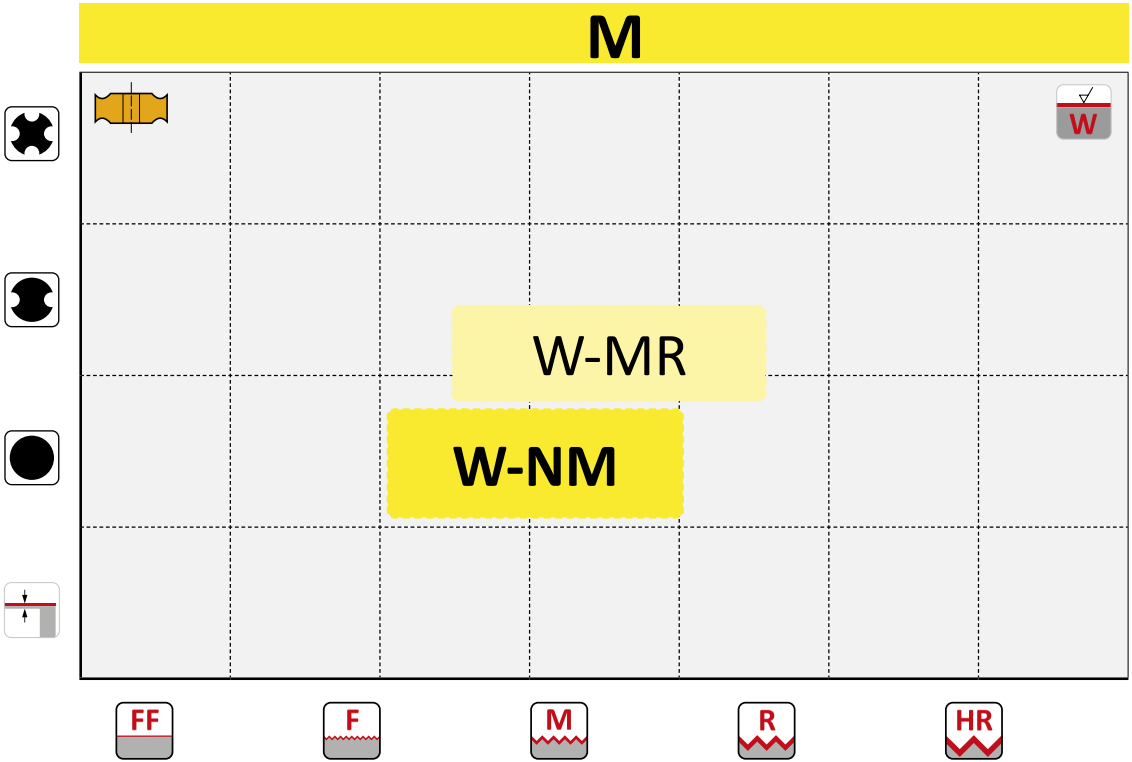
SNMM 250724S-SR

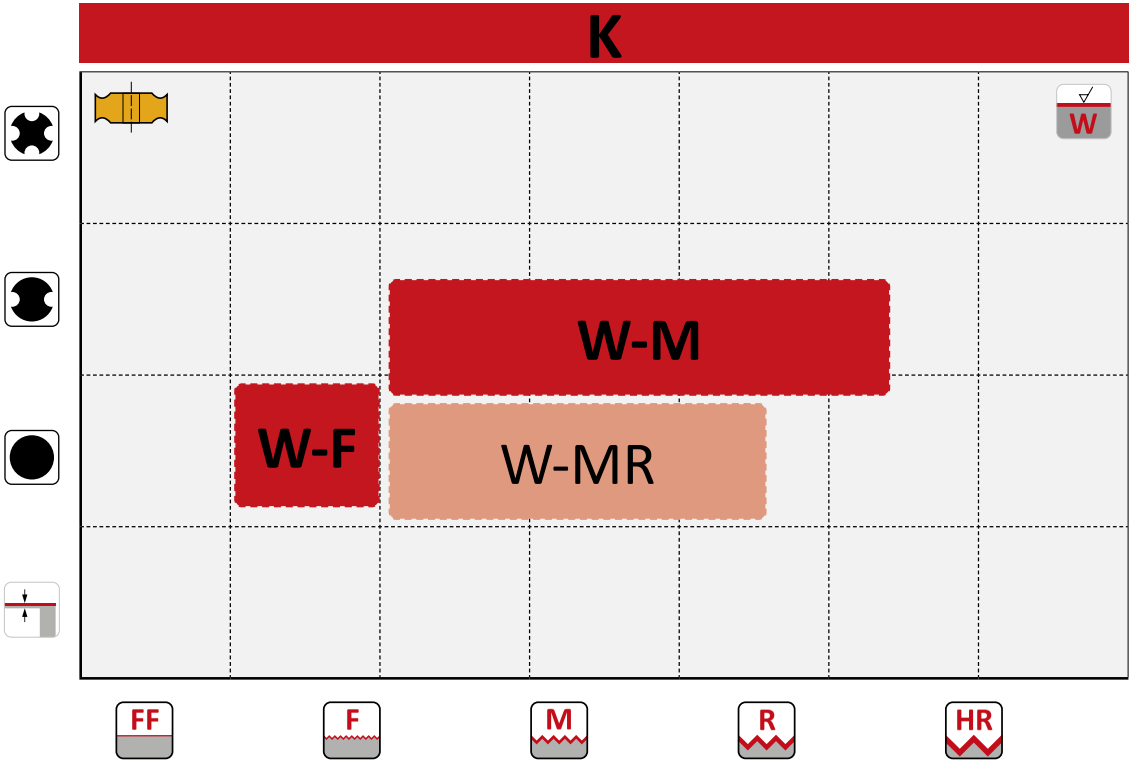


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

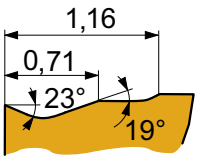
SNMM


P
W
W-M
W-F
W-NM
W-MR
FF
F
M
R
HR


M
W
W-MR
W-NM
FF
F
M
R
HR

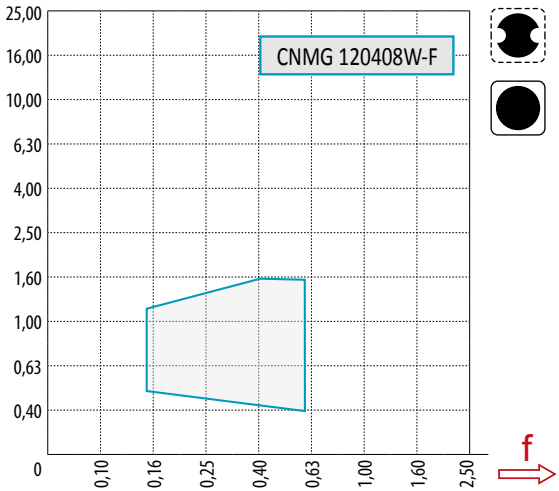

K
W
W-M
W-F
W-MR
FF
F
M
R
HR

W-F



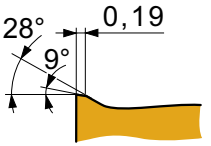
CNMG 120408W-F

P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	-
	M2	o
	M3	-
	M4	-
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	-
	N2	-
	N3	-
	N4	-
S	S1	-
	S2	-
	S3	-
	S4	-
H	H1	o
	H2	-
	H3	-
	H4	-

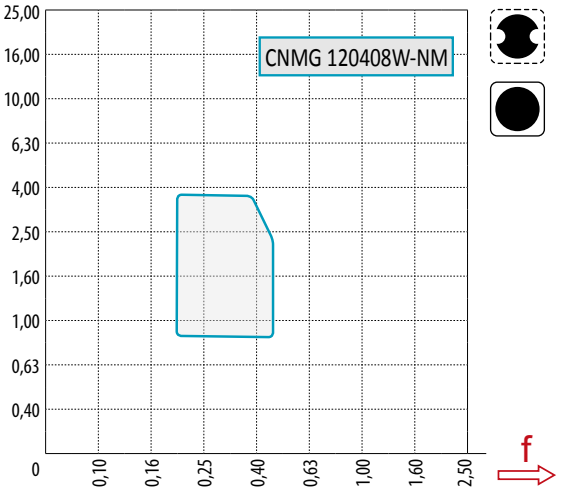


CNMG **WNMG**

W-NM



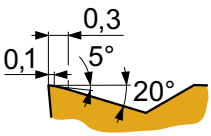
CNMG 120408W-NM



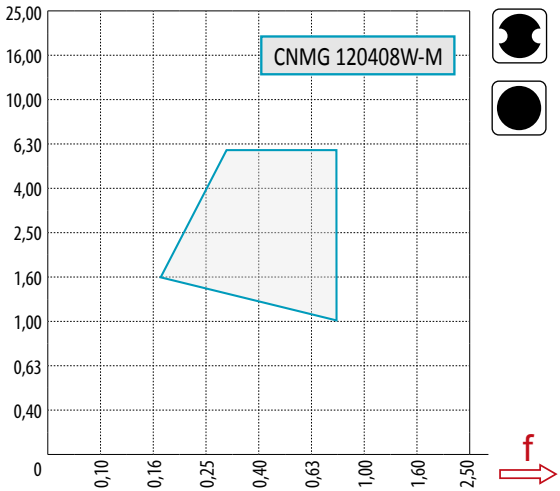
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	◪
	N2	◪
	N3	◪
	N4	◪
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

CNMG WNMG DNMX

W-M



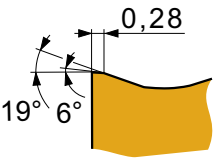
CNMG 120408W-M



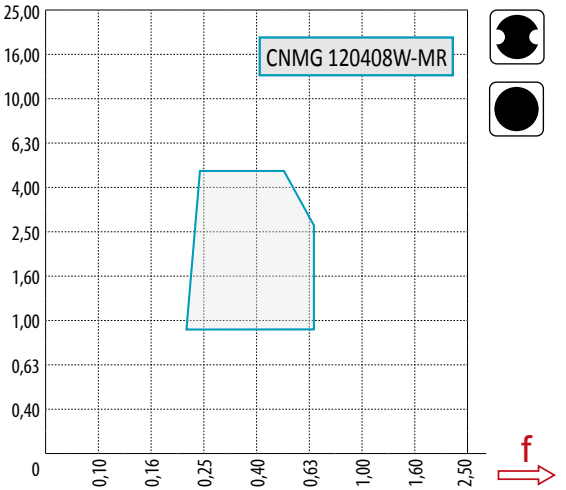
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	
	M2	
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

CNMG **WNMG**

W-MR



CNMG 120408W-MR

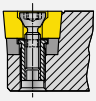


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

CNMG WNMG DNMG

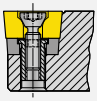
UPÍNACÍ SYSTÉM ISO S

S

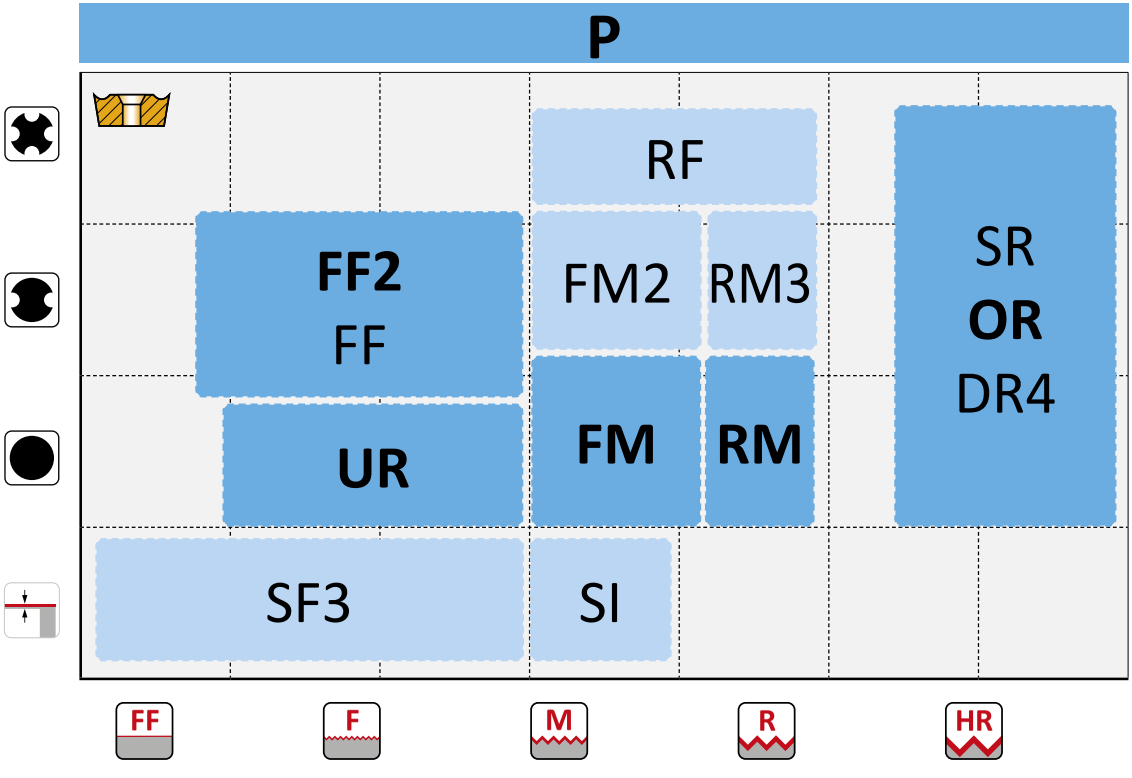


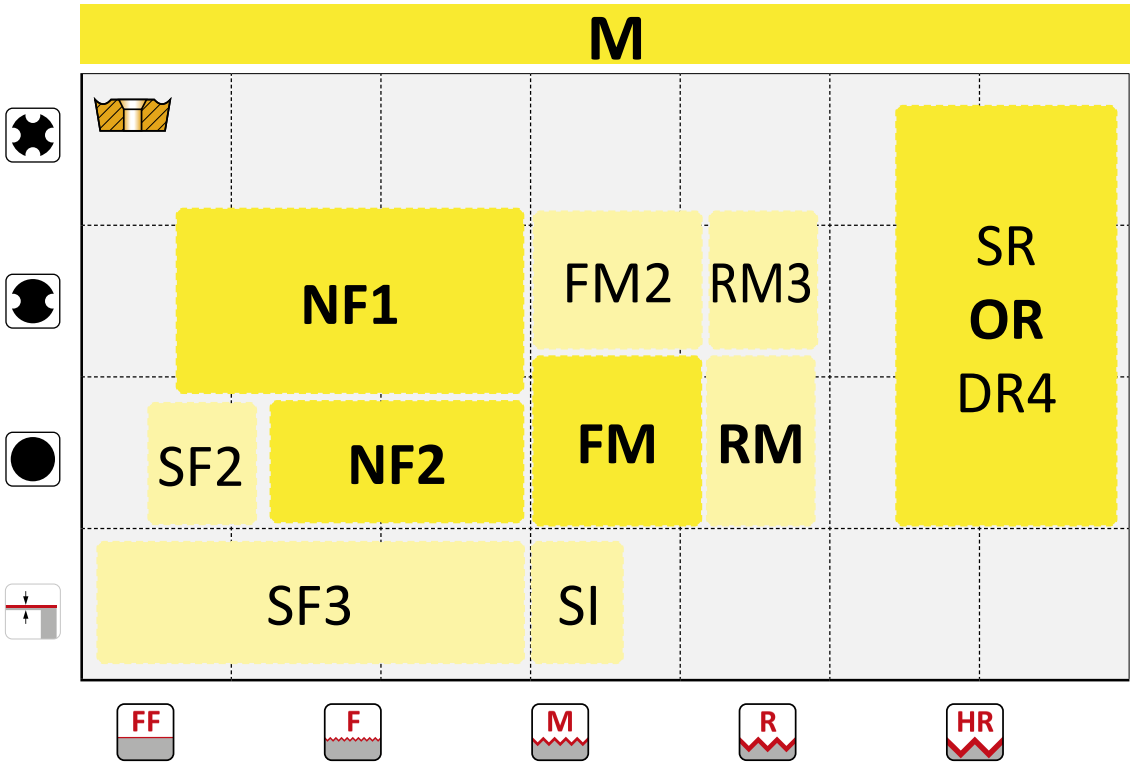
Utvařeč	≥ f_{min} (mm/ot)	 R	 S	 C	 W	 E	 T	 D	 V	
										
FF2	0,02		✓	✓	✓		✓	✓	✓	10
SF2	0,02					✓			✓	11
SF3	0,02		✓	✓		✓	✓	✓	✓	12
FM2	0,04		✓	✓		✓	✓	✓	✓	13
NF1	0,04		✓	✓			✓	✓		14
AL	0,05	✓	✓	✓	✓		✓	✓	✓	15
FF	0,05			✓				✓		16
NF2	0,05	✓	✓	✓		✓	✓		✓	17
FM	0,08		✓	✓	✓		✓	✓	✓	18
SI	0,08			✓			✓			19
...W	0,10	✓	✓	✓			✓	✓	✓	20
RF	0,10		✓	✓			✓	✓		21
RM	0,10		✓	✓			✓	✓	✓	22
UR	0,10	✓	✓	✓	✓		✓	✓	✓	23
RM3	0,15	✓	✓	✓			✓			24
OR	0,60		✓							25
SR	0,60		✓							26
DR4	0,70		✓							27

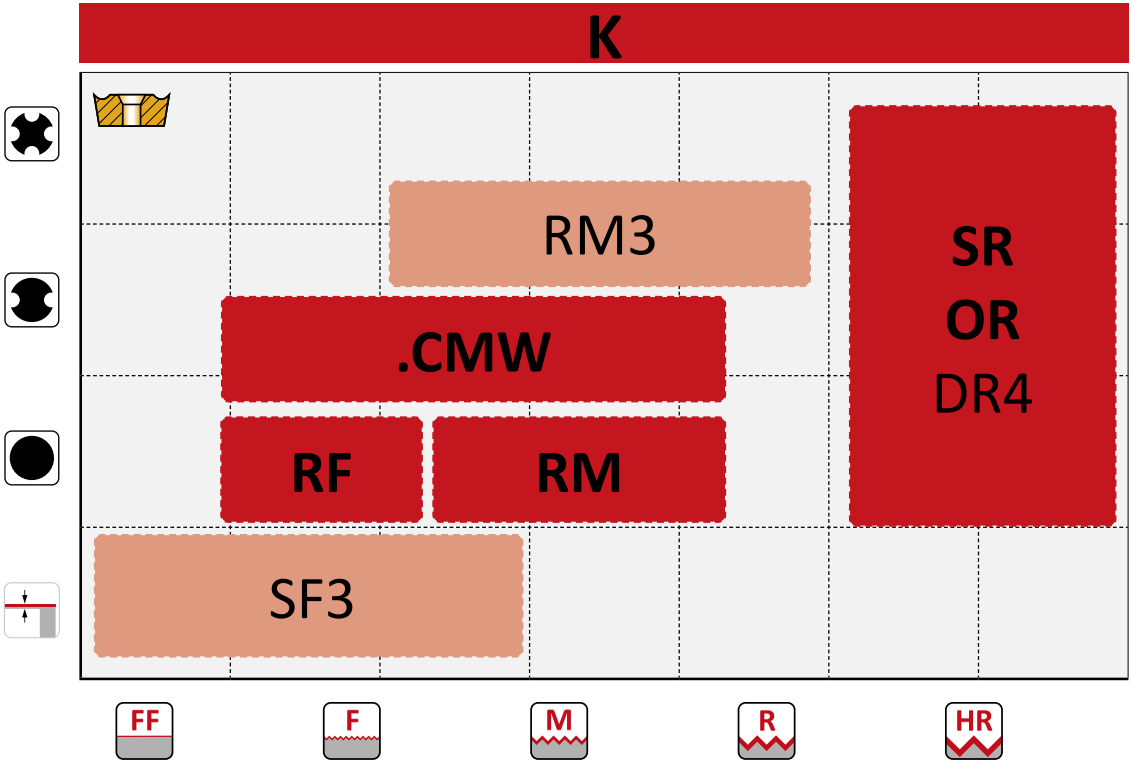
S

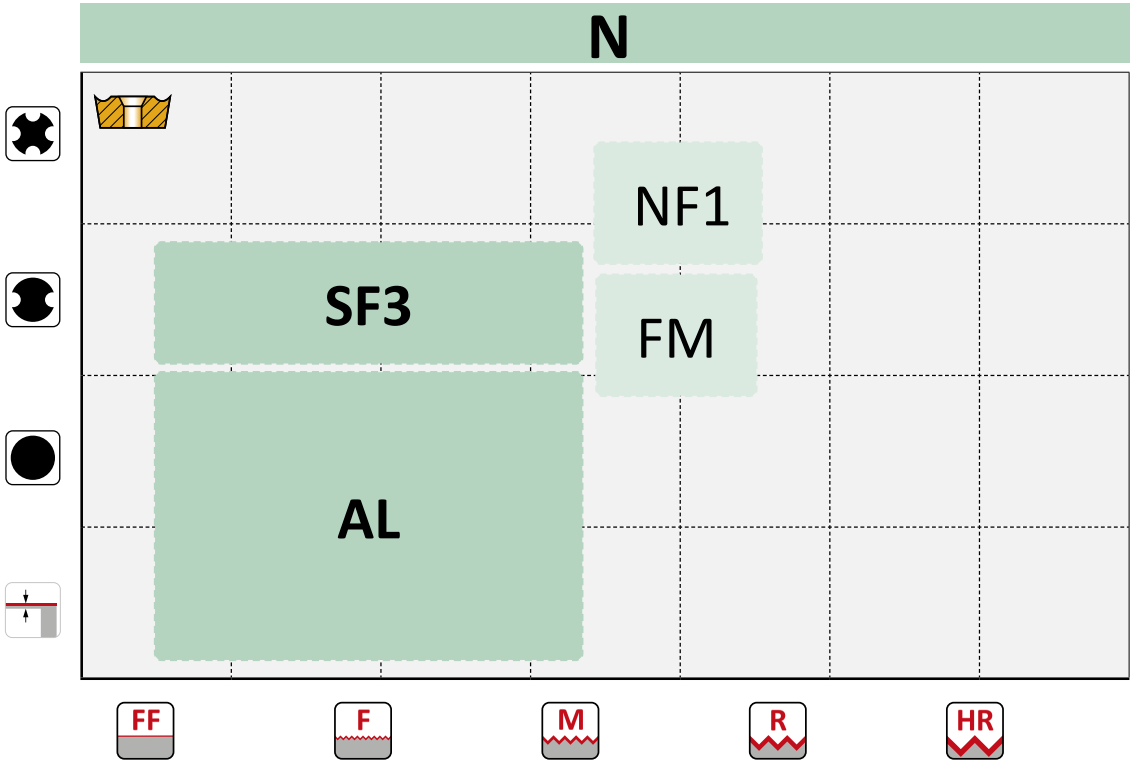


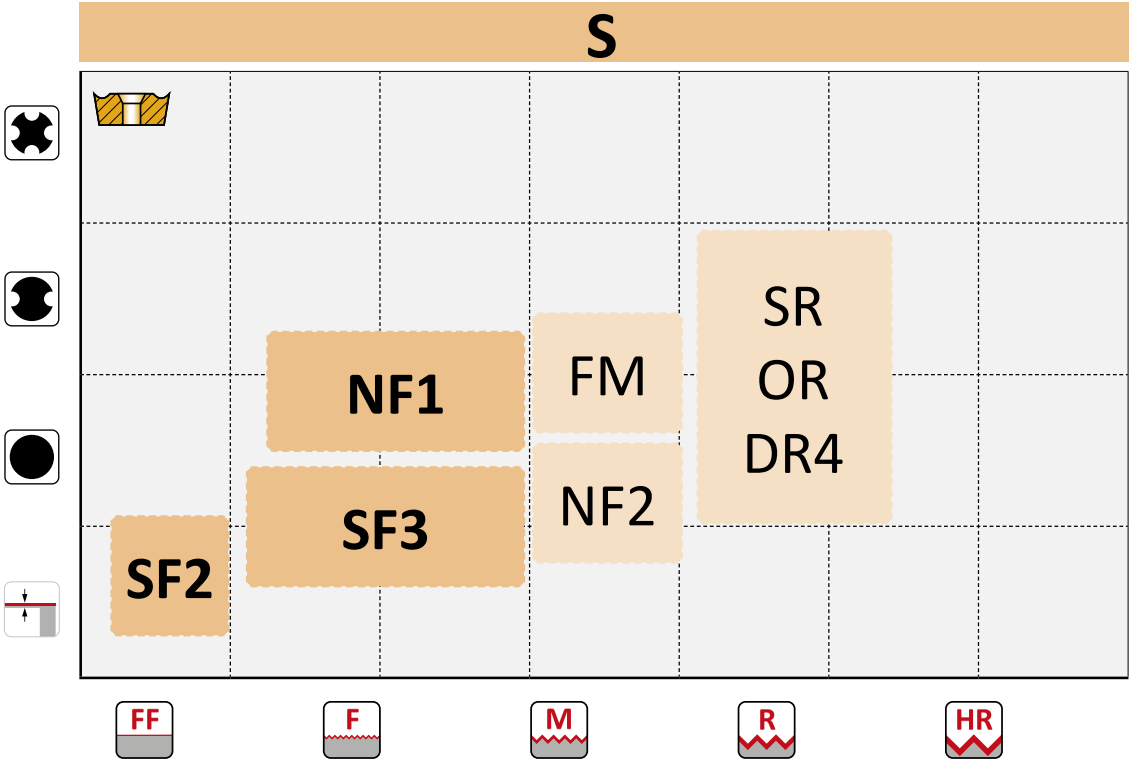
Utvařeč	≥ f_{min} (mm/ot)	R	S	C	W	E	T	D	V	
	W									
W-UR	0,08			✓						31
W-FM	0,10			✓				✓		32

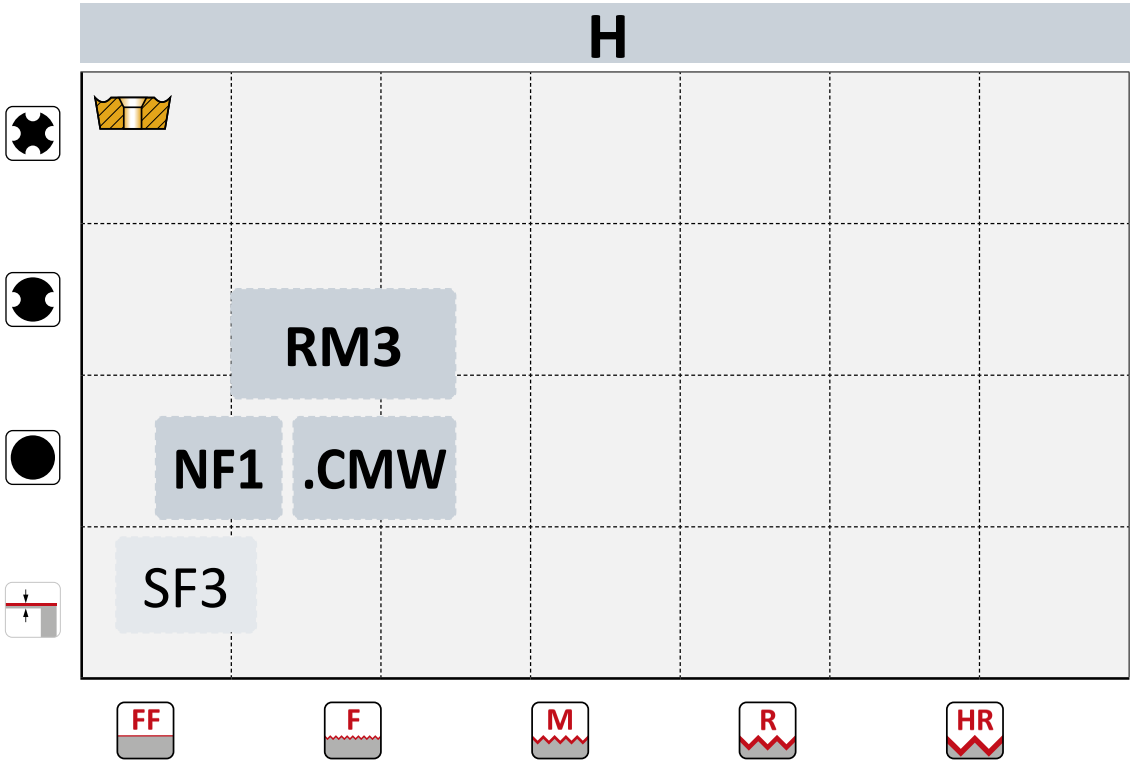

P
RF
FF2
FF
FM2
RM3
SR
OR
DR4
UR
FM
RM
SF3
SI
FF
F
M
R
HR


M
NF1
FM2
RM3
SR
OR
DR4
SF2
NF2
FM
RM
SF3
SI
FF
F
M
R
HR

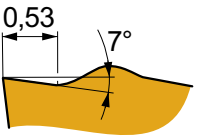

K
RM3
SR
OR
DR4
.CMW
RF
RM
SF3
FF
F
M
R
HR


N
NF1
SF3
FM
AL
FF
F
M
R
HR

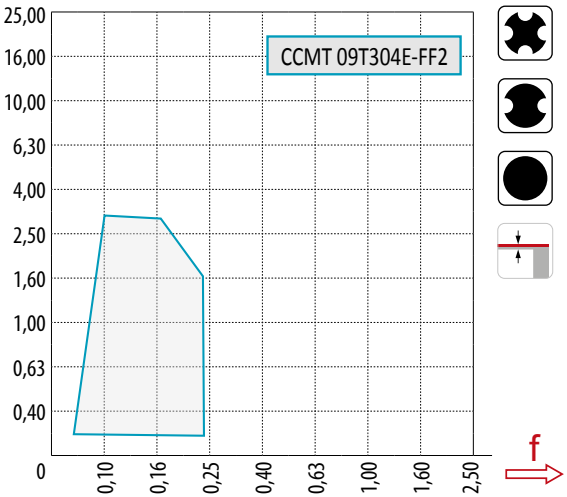

S
NF1
SF3
SF2
FM
NF2
SR
OR
DR4
FF
F
M
R
HR


H
RM3
NF1
.CMW
SF3
FF
F
M
R
HR

FF2



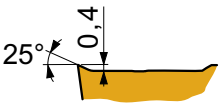
CCMT 09T304E-FF2



P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	◪
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

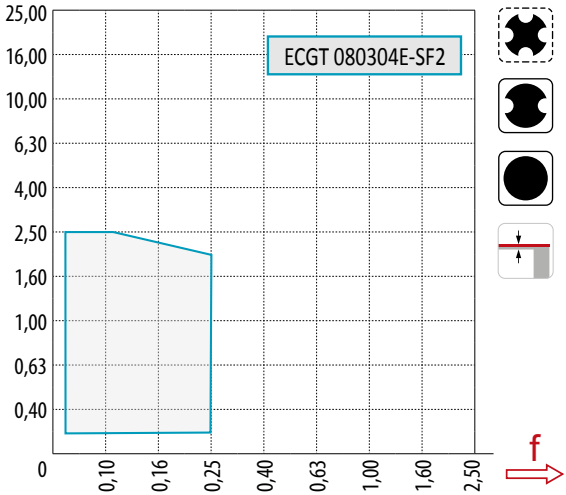
SCMT	CCMT CCGT	WCGT	TCMT TCGT	DCMT DCGT	VBMT VCGT VCGX
					

SF2

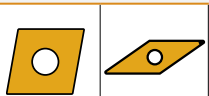


ECGT 080304E-SF2

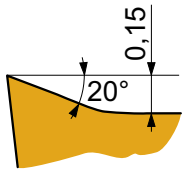
P	P1	■
	P2	◪
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	◪
	N2	◪
	N3	◪
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	◪
	H2	
	H3	
	H4	



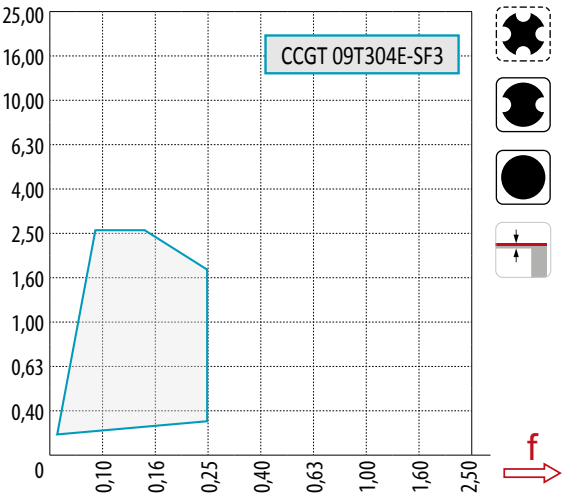
ECMT **VCGT**



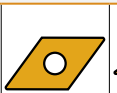
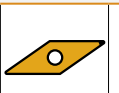
SF3



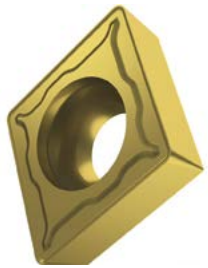
CCGT 09T304E-SF3

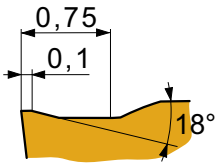


P	P1	■
	P2	◪
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	◪
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	◪
	H2	
	H3	
	H4	

SCGT	CCGT	ECGT	TCGT	DCGT	VCGT
					

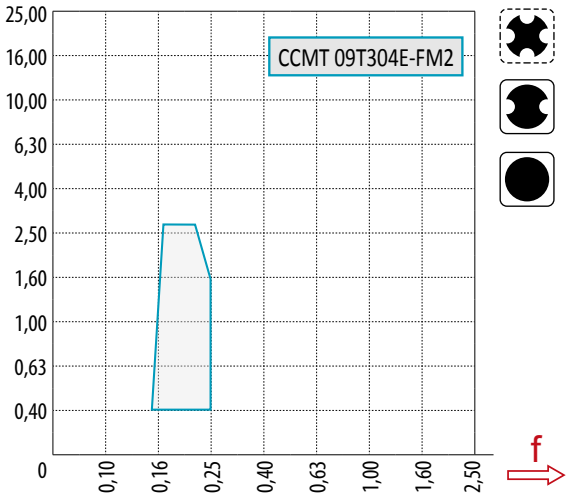
FM2

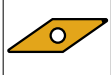




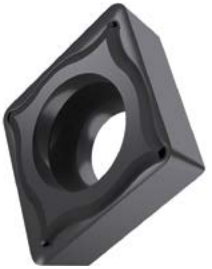
CCMT 09T304E-FM2

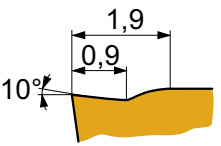
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	◪
	H3	■
	H4	◪



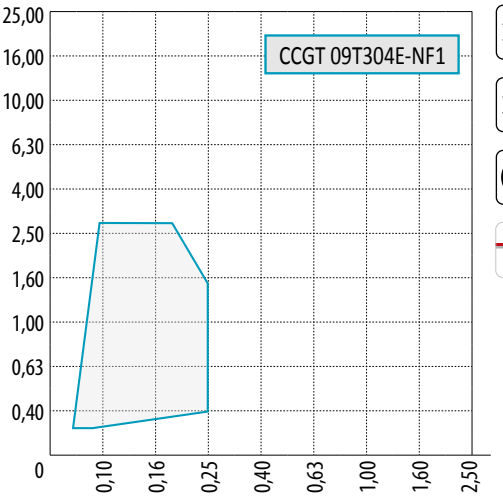
SCMT	CCMT	ECMT	TCMT	DCMT	VBMT VCGT
					

NF1





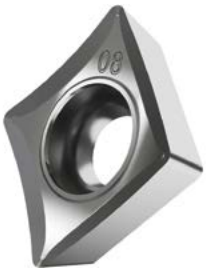
CCGT 09T304E-NF1

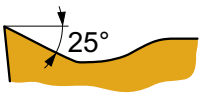


P	P1	■
	P2	◪
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	◪
	H3	◪
	H4	◪

SCGT **CCGT** **TCGT** **DCGT**

AL





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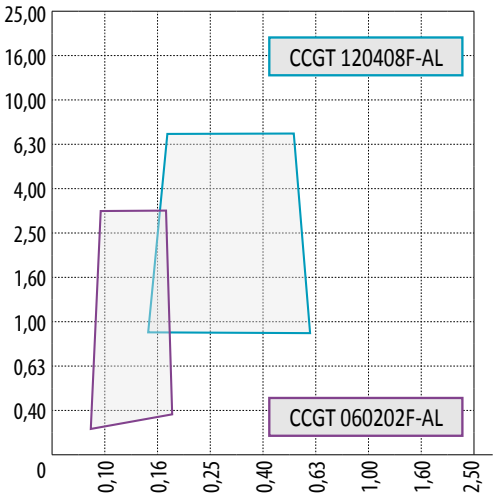
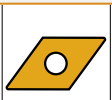
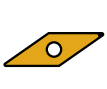
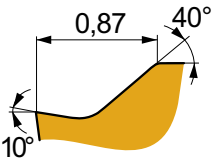


P	P1	◪
	P2	◪
	P3	◪
	P4	◪
M	M1	◪
	M2	◪
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	■
	N2	■
	N3	■
	N4	■
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	◪
	H2	
	H3	
	H4	

RCGT	SCGT	CCGT	WCGT	TCGT	DCGT	VCGT
						

FF



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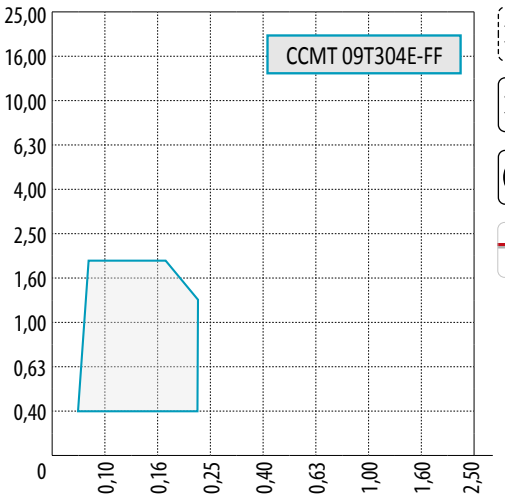
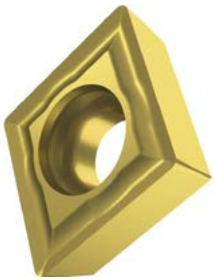


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

CCMT **DCMT**

NF2



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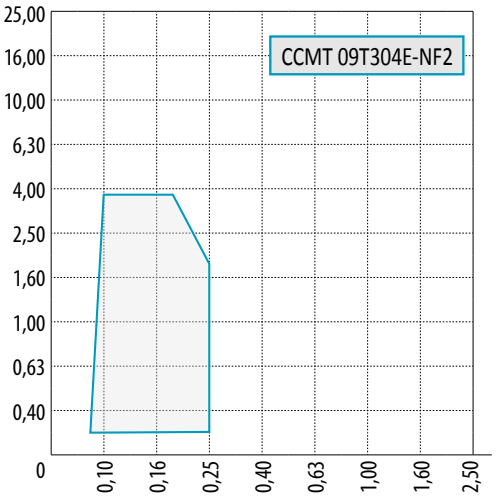
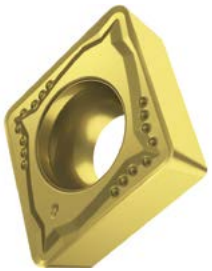


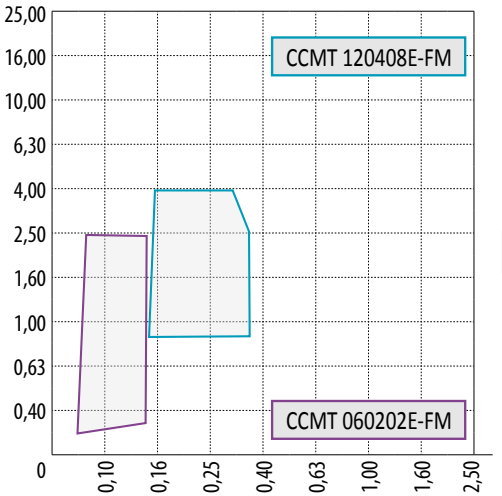
P	P1	■
	P2	■
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	◪
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

RCMT	SCMT	CCMT	TCMT	VCGT		
						

FM



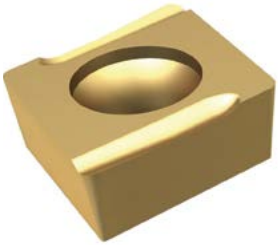
CCMT 120408E-FM



P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	◪
S	S1	◪
	S2	◪
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

RCMT	SCMT	CCMT	WCMT	TCMT	DCMT	VBMT VCMT
						

SI



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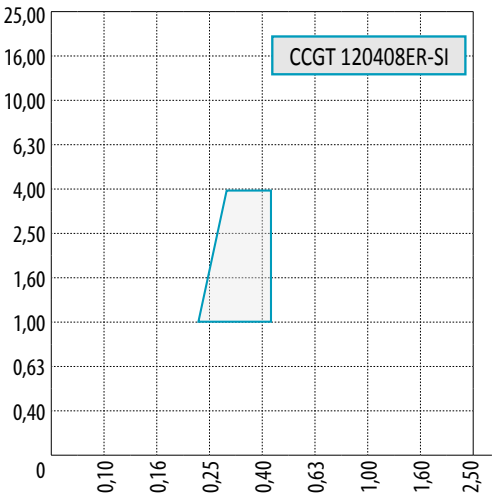
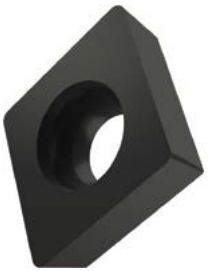


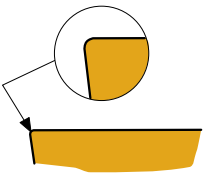
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	◪
	N3	◪
	N4	◪
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

CCGT **DCGT** **TCGT**

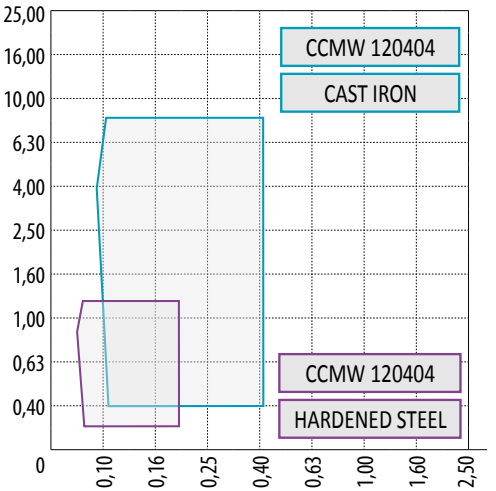


...W

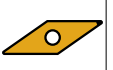




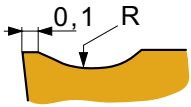
CCMW 120408



P	P1	◪
	P2	◪
	P3	◪
	P4	◪
M	M1	
	M2	◪
	M3	
	M4	
K	K1	■
	K2	■
	K3	◪
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	■
	H3	■
	H4	■

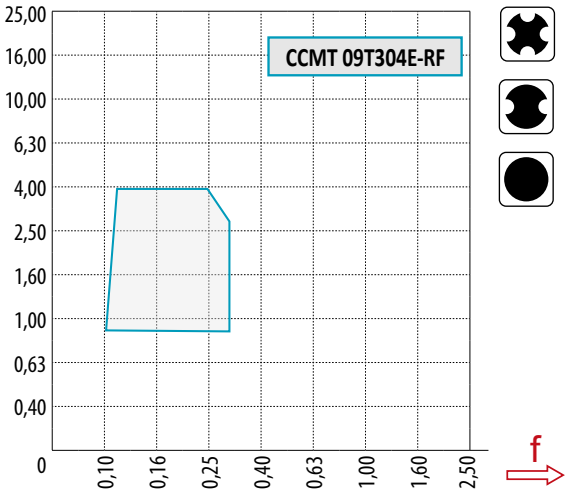
RCMW	SCMW	CCMW	TCMW	DCMW	VCMW	ECMT
						

RF

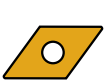


I.C.	R
6,35	1,0
9,525	1,5
12,7	2,5

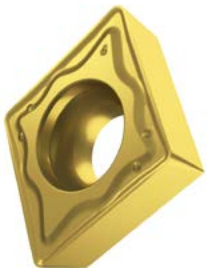
CCMT 09T304E-RF

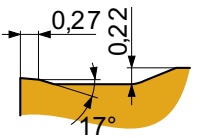


P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	◪
	H4	◪

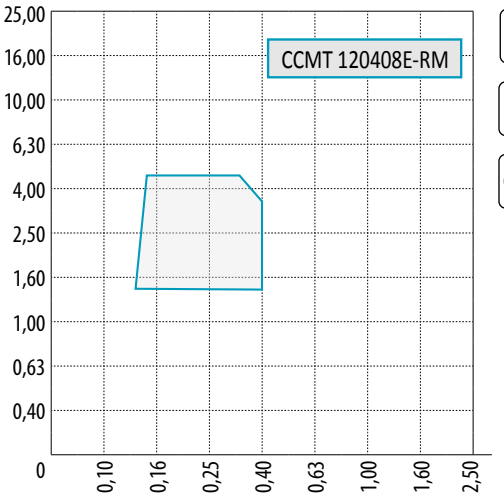
SCMT	CCMT	WCMT	TCMT	DCMT		
						

RM



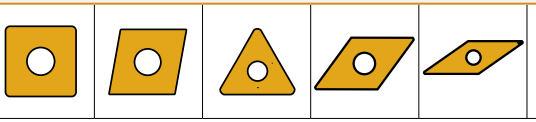


CCMT 120408E-RM

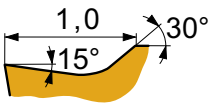


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	■
	H2	■
	H3	■
	H4	◪

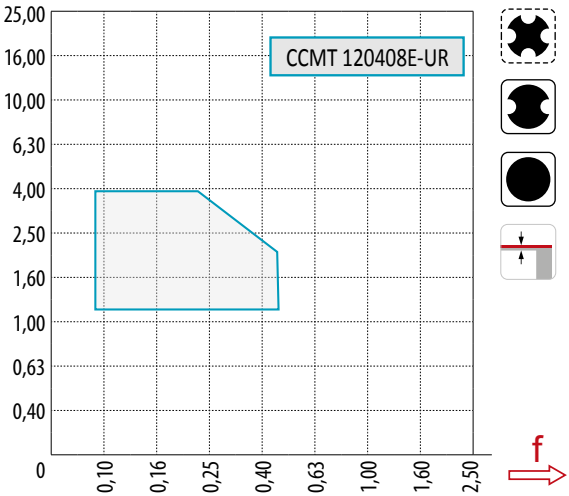
SCMT **CCMT** **TCMT** **DCMT** **VBMT**



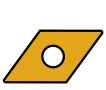
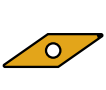
UR



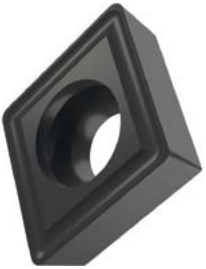
CCMT 120408E-UR

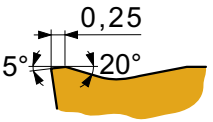


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	◪
N	N1	
	N2	◪
	N3	
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

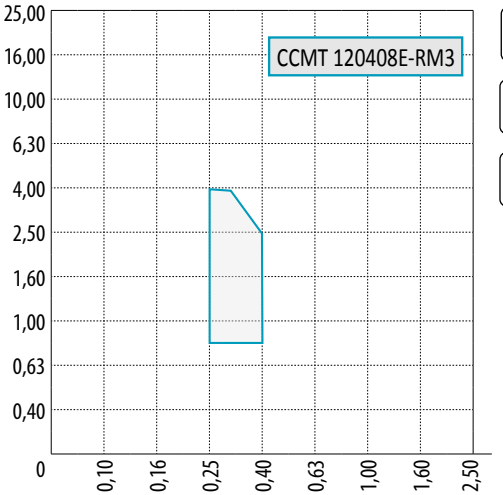
RCMT	SCMT	CCMT	WCMT	TCMT	DCMT	VBMT VCMT
						

RM3





CCMT 120408E-RM3

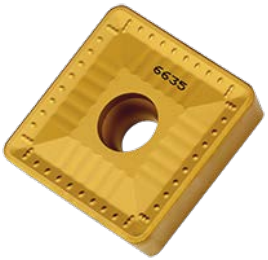


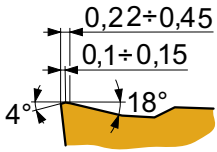
P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	■
	H4	◪

RCMT **SCMT** **CCMT** **TCMT**

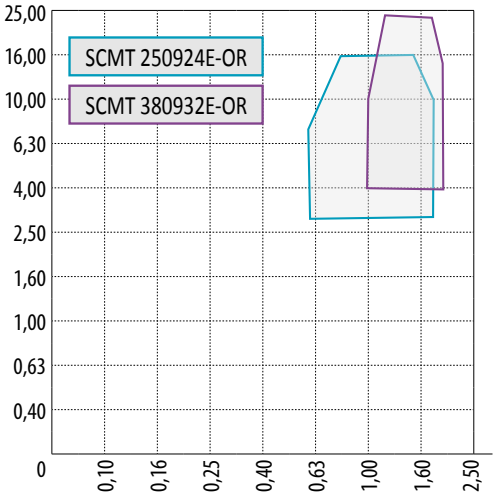



OR





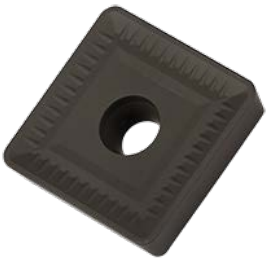
SCMT 250924E-OR

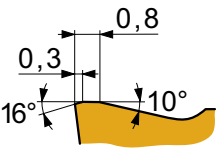


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

SCMT

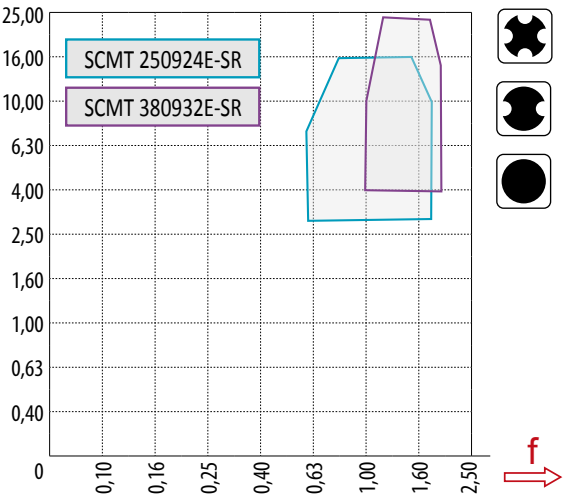
SR





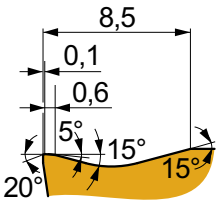
SCMT 250924E-SR

P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

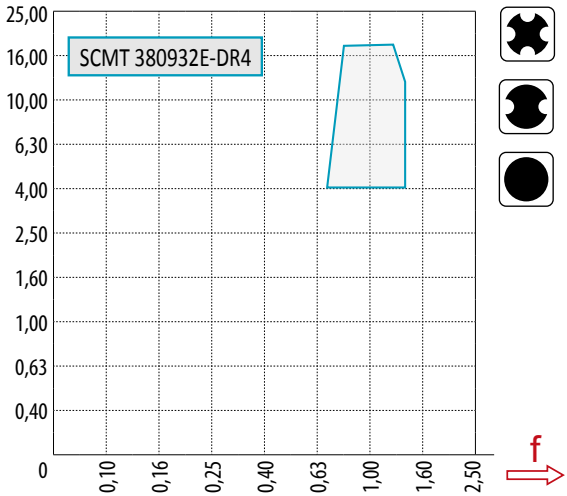


SCMT

DR4

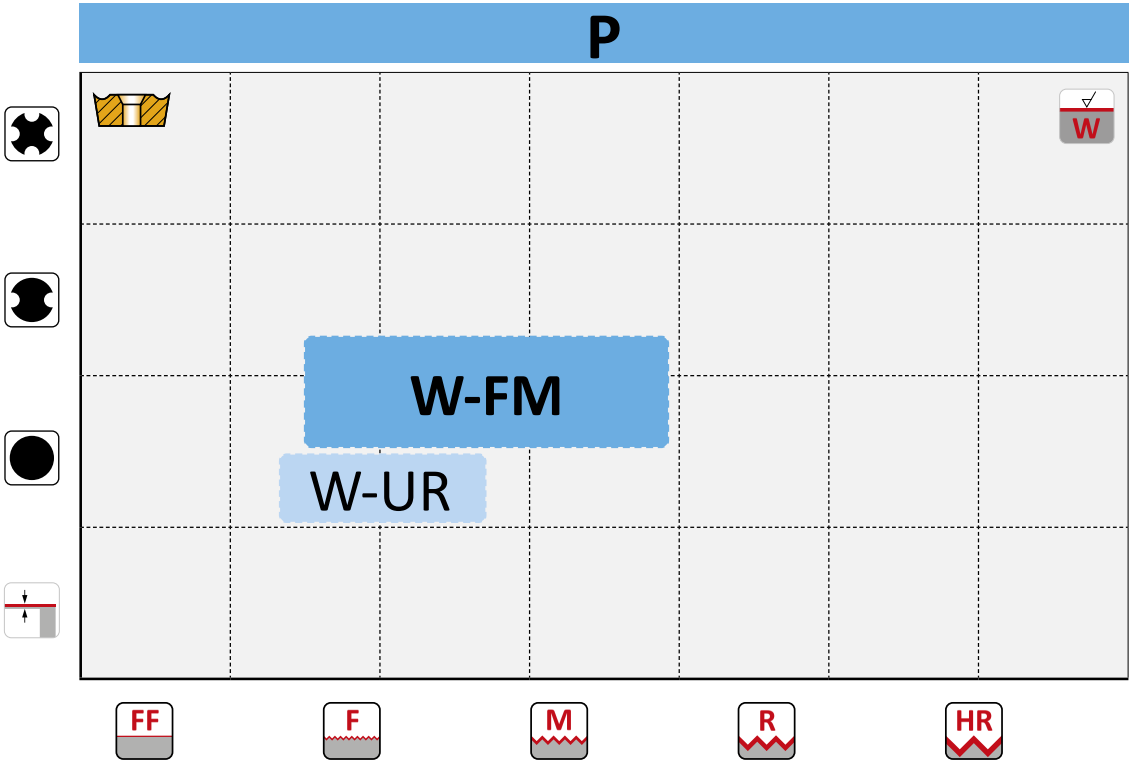


SCMT 380932E-DR4



P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

SCMT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W-UR
FF
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M
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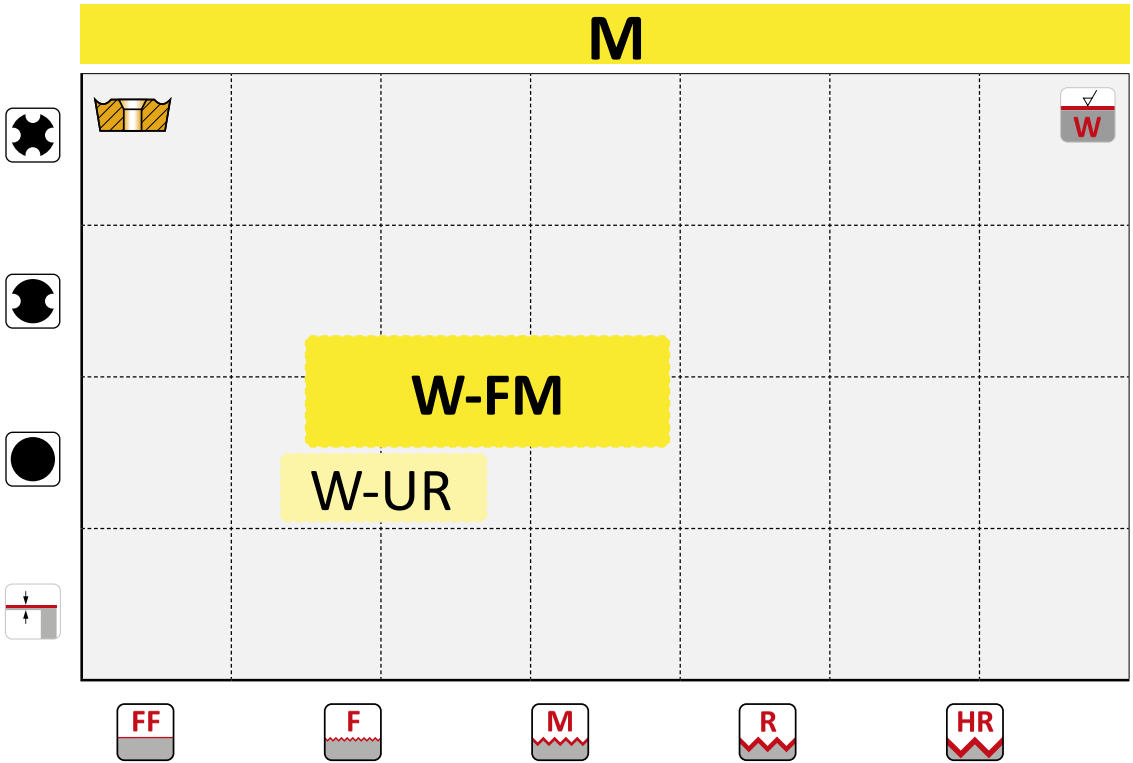
HR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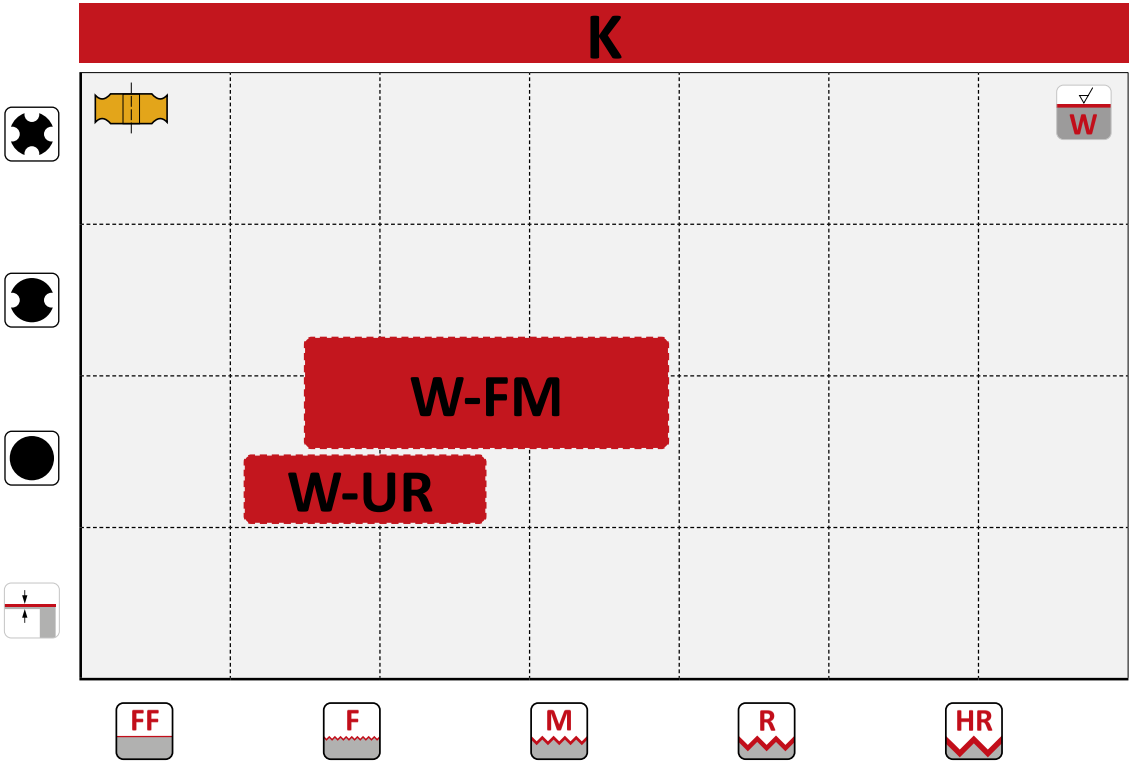
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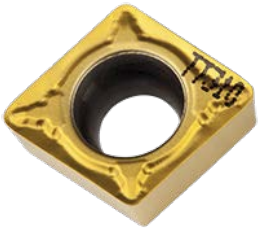

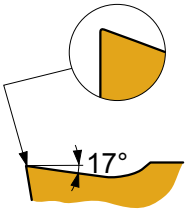

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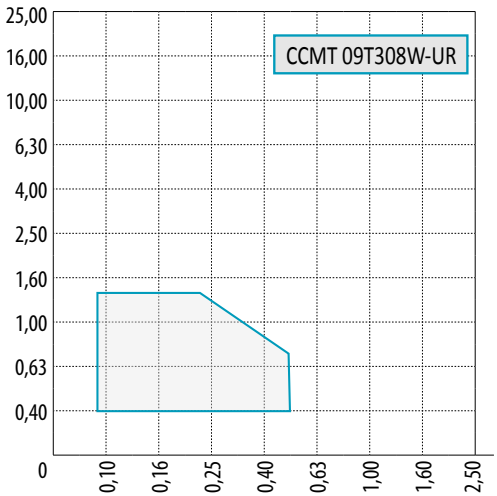

P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	◪
	N3	◪
	N4	◪
S	S1	
	S2	
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H	H1	
	H2	
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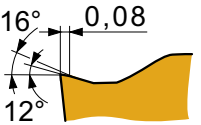
CCGT

W-FM



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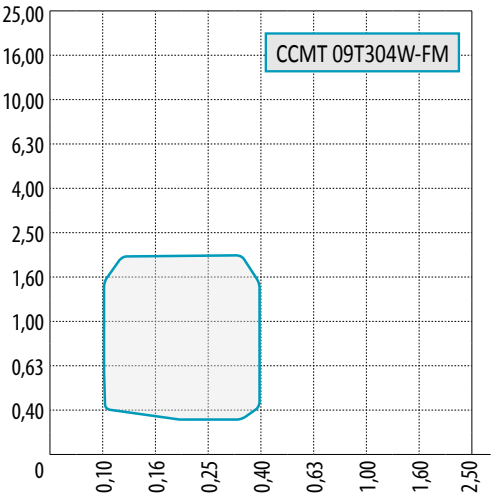

P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
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	K2	■
	K3	■
	K4	◪
N	N1	
	N2	
	N3	◪
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

CCGT **DCMX**

SIMPLY RELIABLE

Jako odborníci můžete sami pouhým pohledem na třísku posoudit kvalitu odvedené práce. Tříska svým čistým a jednoduchým tvarem v sobě nese příběh. Naše tříska je jasný a neměnný ukazatel a proto je naším symbolem. Jsme **prostě spolehliví**.

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