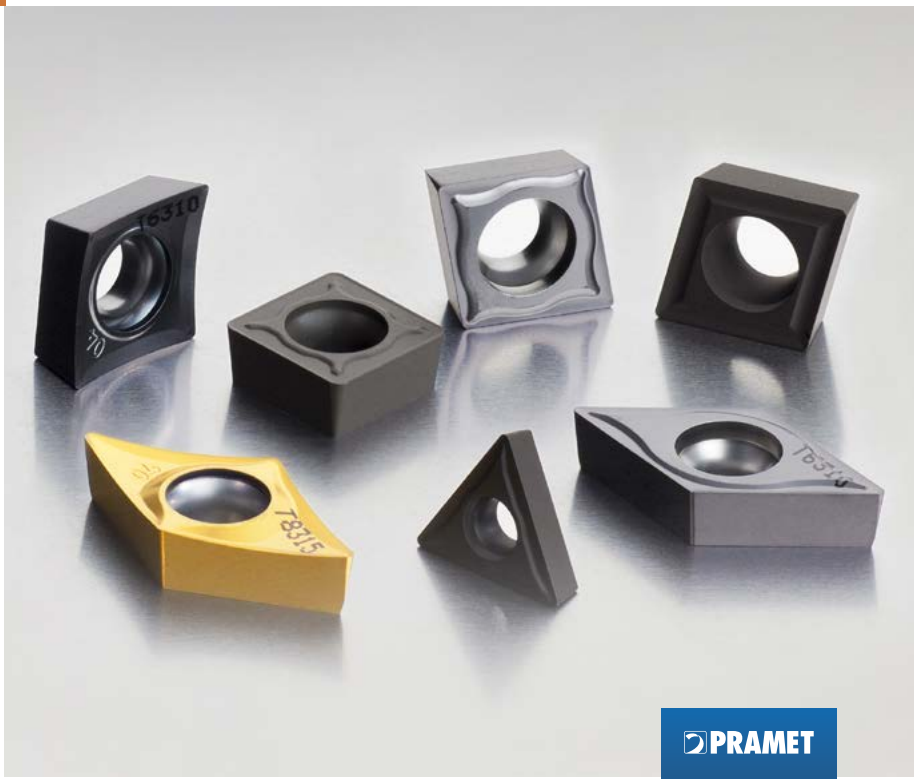
DORMER PRAMET

TURNING
CHIPBREAKERS

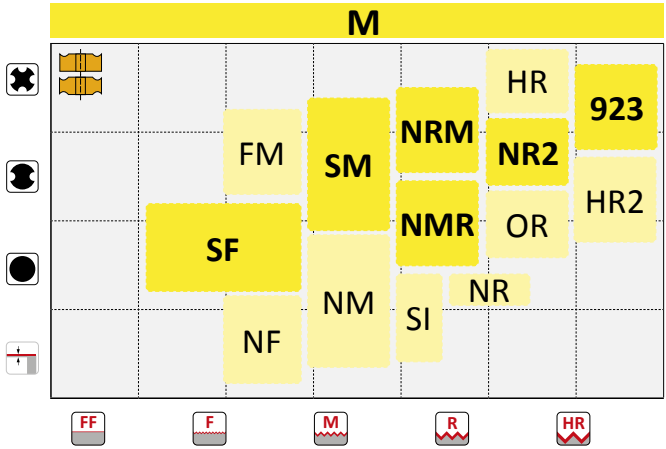
Clamping designation ISO P, D, M, S



PRAMET

Group, Subgroup		DORMER AMG	Subgroup definition
P	P1	1.1, 1.2	Steel and cast steel with very good (enhanced) machinability; automatic steel and low–carbon steel
	P2	1.3	Non–alloy and low–alloy cast steel and steel with a medium carbon content (0,25 < C < 0,55); rigidity of up to 900 MPa and hardness of 160 – 255 HB
	P3	1.4	Less machinable non–alloy and low–alloy cast steel and steel with a medium carbon content; rigidity of up to 1000 MPa and hardness of up to 300 HB
	P4	1.5	Medium – to high-alloy cast steel and steel (usually with a carbon content of 0,55 < C); rigidity of up to 1270 MPa and hardness of up to 375 HB (resp. 40 HRC)
M	M1	2.1	Ferritic corrosion–resistant steel
	M2	(2.1, 2.4)	Martensitic corrosion–resistant steel
	M3	2.2	Austenitic corrosion–resistant steel
	M4	2.3, 2.4	Ferritic–austenitic (duplex) and super–austenitic corrosion–resistant steel
K	K1	3.1, 3.2	Grey cast iron
	K2	3.1, 3.2	Tempered cast iron
	K3	3.3	Ductile cast iron ferritic and ferrite–pearlite
	K4	3.4	Ductile cast iron pearlite–ferritic, pearlite–sorbitic and pearlite
N	N1	7.1	Aluminium and its soft alloys (with a low Si content), particularly formed and cast (non–hardened); hardness of up to 100 HB
	N2	7.2, 7.3, 7.4	Hard Al alloys, particularly cast and hardened (with a high Si content)
	N3	6.1, 6.2, 6.3	Soft Cu alloys, automatic brass and other types of soft brass and bronze
	N4	6.4	Less machinable and hard Cu alloys
S	S1	4.1, 4.2, 4.3	Technically pure Ti, alloys α, $\alpha + \beta$ and β, refined and aged alloys
	S2	(9.1)	Fe–based alloys
	S3	5.1, 5.2, 5.3	Ni–based alloys
	S4	(9.1)	Co–based alloys
H	H1	1.6	Highly rigid and hard tool steel and hardened and refined steel with a hardness of 40 – 50 HRC
	H2	–	Hardened and white cast iron 350 – 600 HV
	H3	1.7	Hardened and refined steel with hardness in the 50 – 55 HRC range
	H4	1.8	Hardened and refined (mostly tool) steel with hardness of more than 55 HRC

Schematic classification of the chipbreakers for stainless steel (M) with respect to the feed (f), depth of cut (a_p) and working conditions.

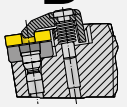


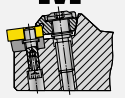
	Very unstable working conditions
	Unstable working conditions
	Stable working conditions
	Thin-walled and slim workpieces

■	Main application
◪	Secondary application
-	Not recommended

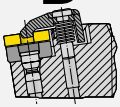
	f	a_p
FF F	0,05 – 0,2 mm/rev	0,05 – 2 mm
M	0,2 – 0,4 mm/rev	2 – 4 mm
R	0,4 – 1,0 mm/rev	4 – 10 mm
HR	> 1,0 mm/rev	> 10 mm

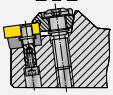
CLAMPING DESIGNATION ISO P, D, M



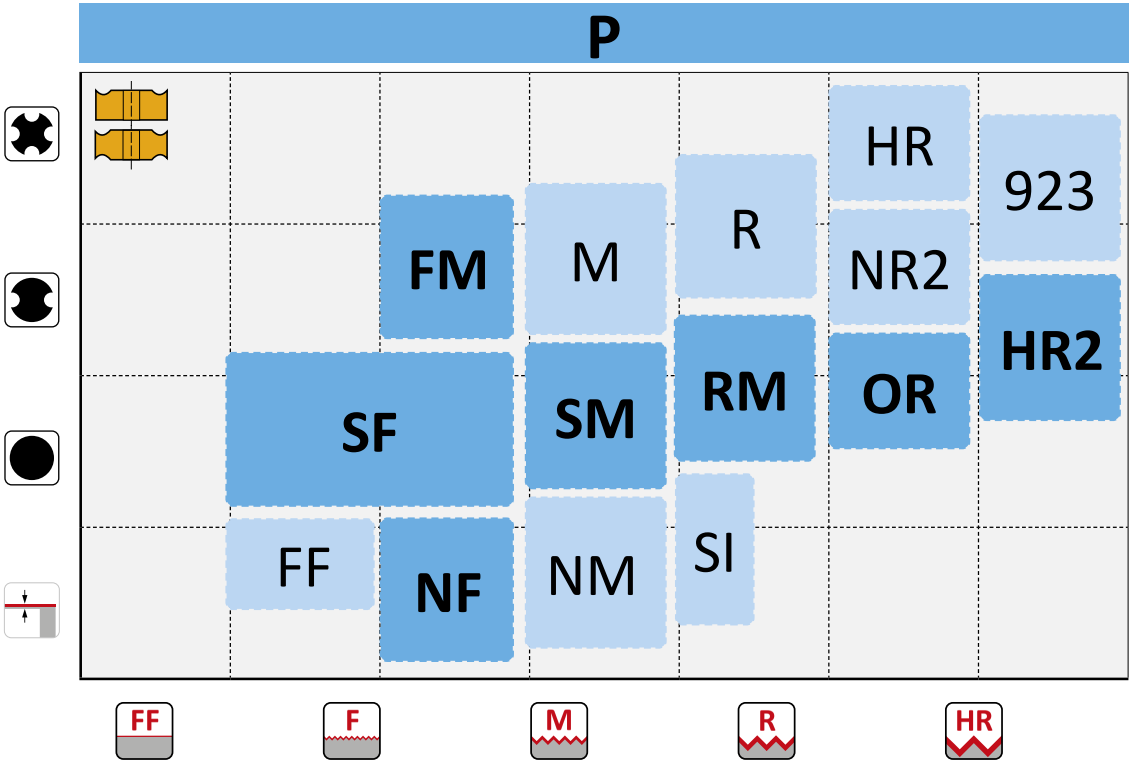


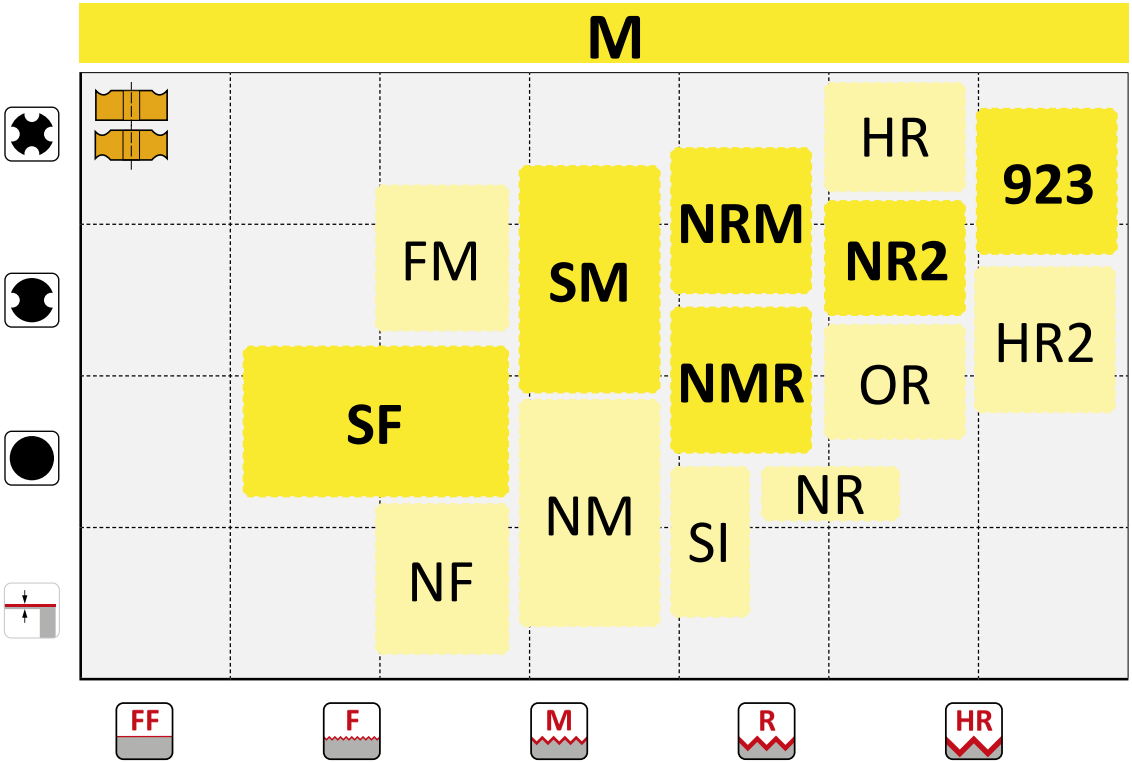
Chip breaker	≥ f_{min} (mm/rev)	S	C	W	T	D	V	
FF	0,06		✓	✓	✓	✓	✓	10
SF	0,08	✓	✓	✓	✓	✓	✓	11
...A	0,10	✓	✓	✓	✓	✓		12
NF	0,10	✓	✓	✓	✓	✓	✓	13
FM	0,15	✓	✓	✓	✓	✓	✓	14
NM	0,15		✓	✓	✓	✓	✓	15
SM	0,15	✓	✓	✓	✓	✓	✓	16
M	0,17	✓	✓	✓	✓	✓	✓	17
NMR	0,18	✓	✓	✓	✓	✓	✓	18
KR	0,20	✓	✓	✓	✓			19
SI	0,20		✓	✓	✓	✓		20
NRM	0,23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

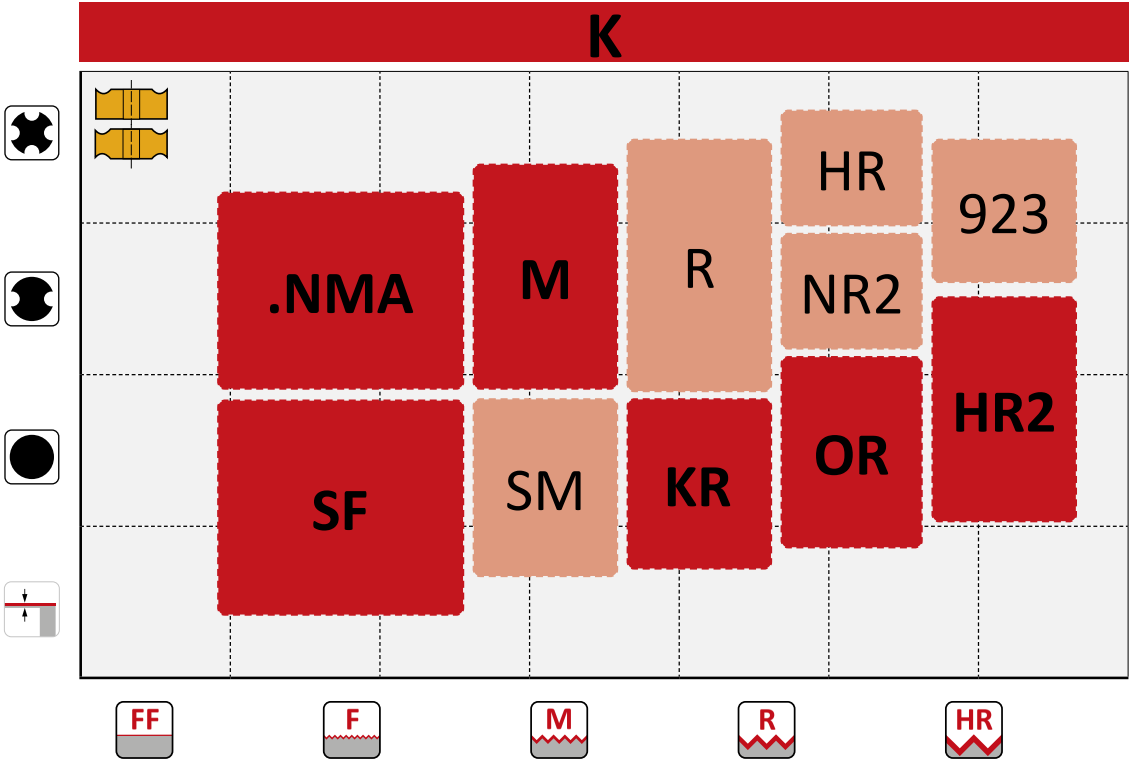


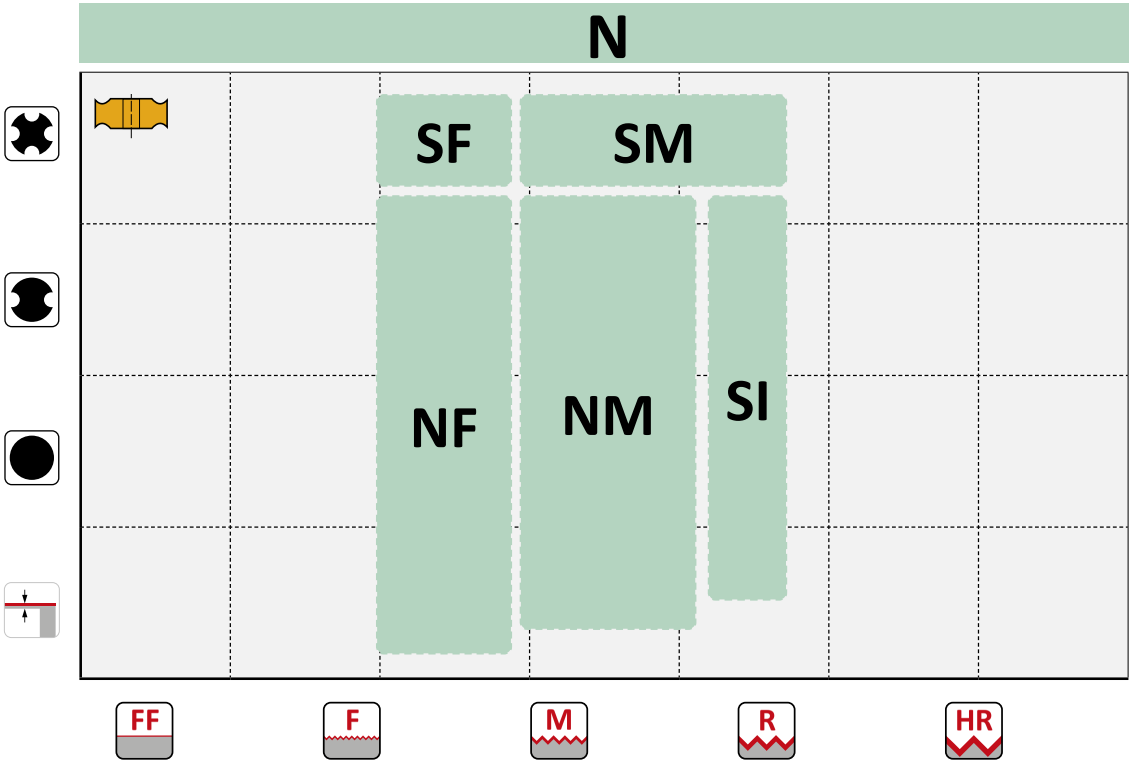


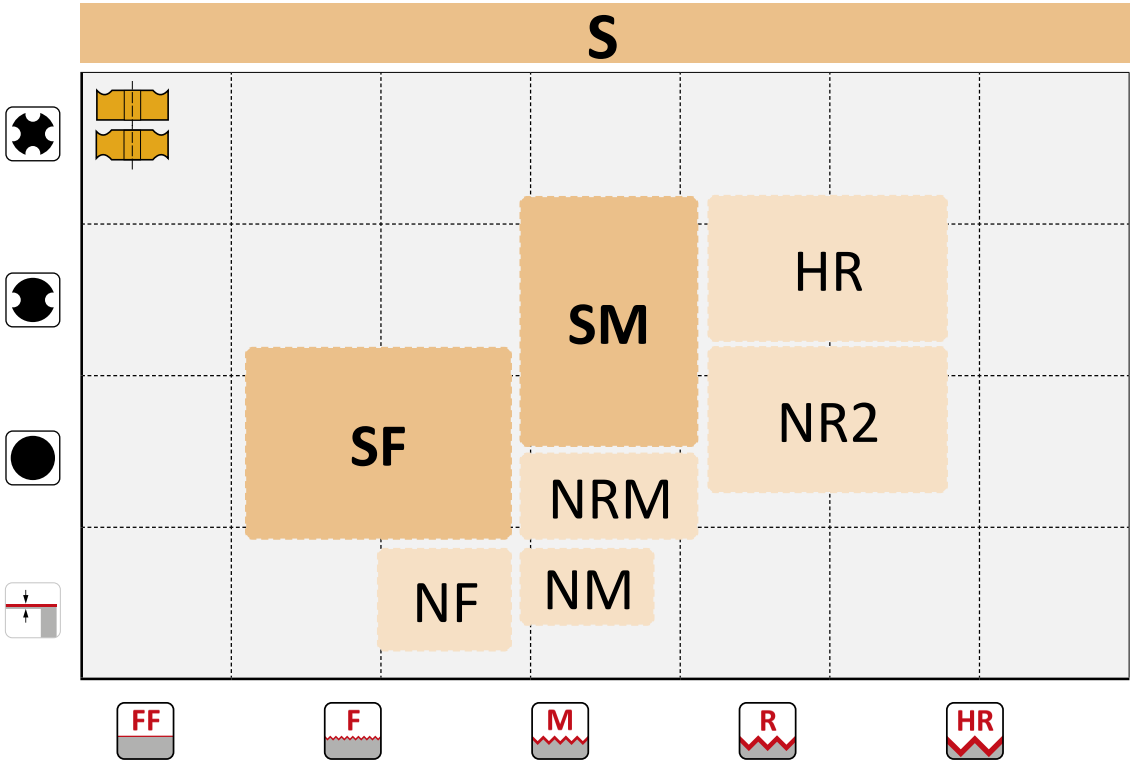
Chip breaker	≥ f_{min} (mm/rev)	S	C	W	T	D	V	📖
								
NR	0,25	✓	✓	✓	✓	✓		24
NR2	0,25	✓	✓	✓	✓	✓		25
OR	0,25	✓	✓	✓	✓	✓		26
DR	0,30	✓	✓	✓	✓			27
NRM	0,32	✓	✓					28
OR1	0,37	✓	✓					29
923	0,45	✓	✓					30
HR	0,50	✓	✓		✓			31
HR2	0,50	✓	✓					32
SR	0,70	✓						33
								
W-F	0,15		✓	✓				37
W-NM	0,15	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

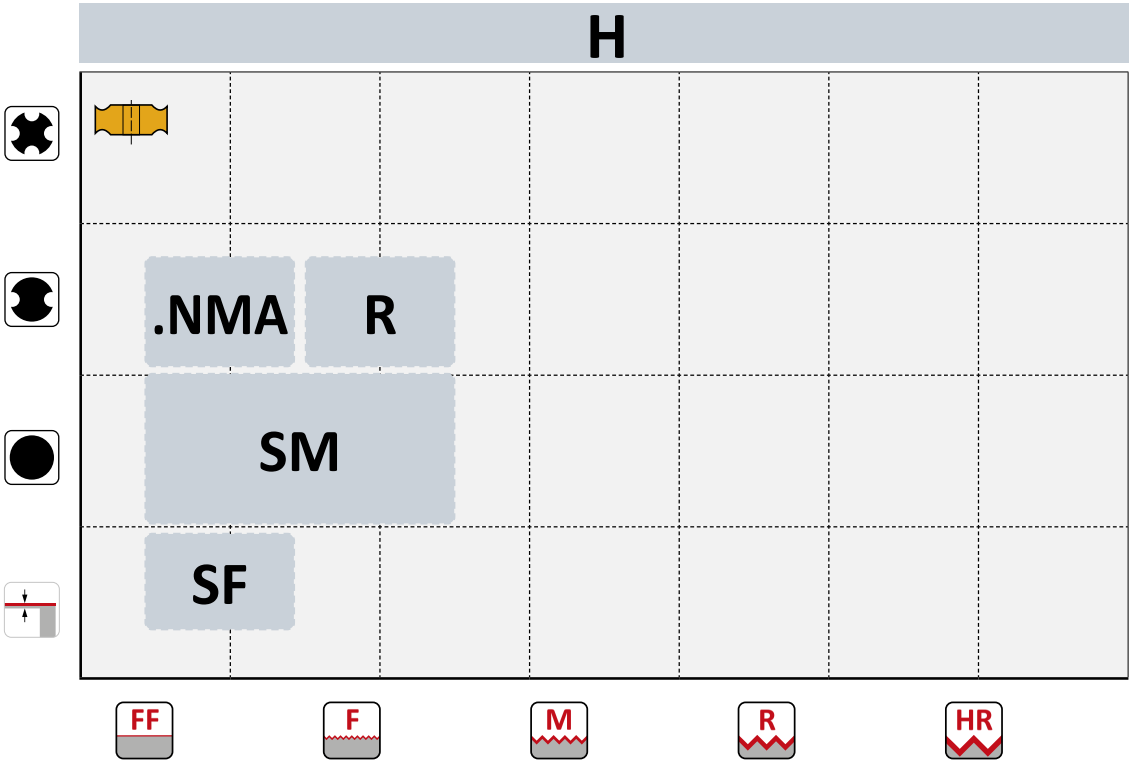

P
HR
923
R
NR2
FM
M
HR2
RM
OR
SF
SM
SI
FF
NF
NM
FF
F
M
R
HR


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

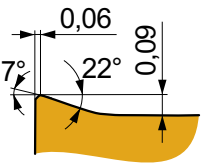

K
.NMA
M
R
HR
923
NR2
HR2
SF
SM
KR
OR
FF
F
M
R
HR


N
SF
SM
NF
NM
SI
FF
F
M
R
HR

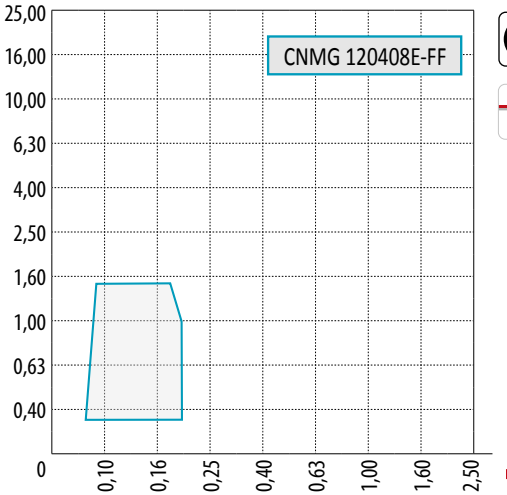

S
SM
HR
SF
NR2
NRM
NF
NM
FF
F
M
R
HR


H
.NMA
R
SM
SF
FF
F
M
R
HR

FF

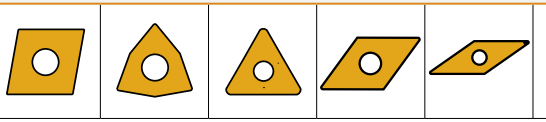


CNMG 120408E-FF

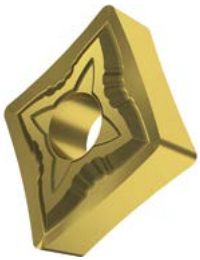


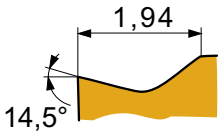
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	◪
	N3	◪
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	◪
	H4	

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



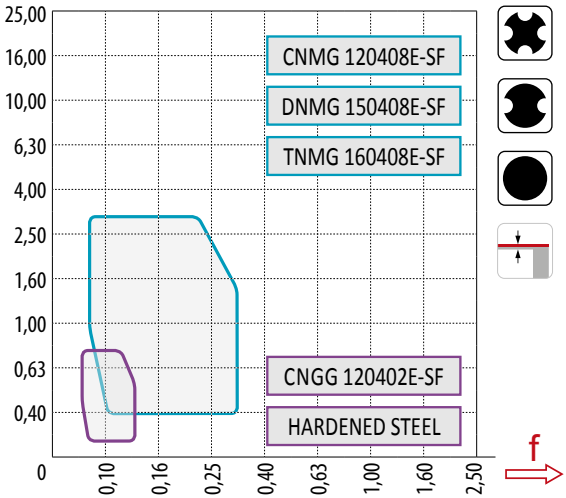
SF

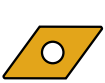
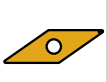




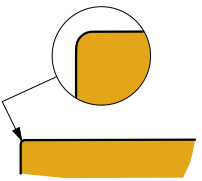
CNMG 120408E-SF

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	■

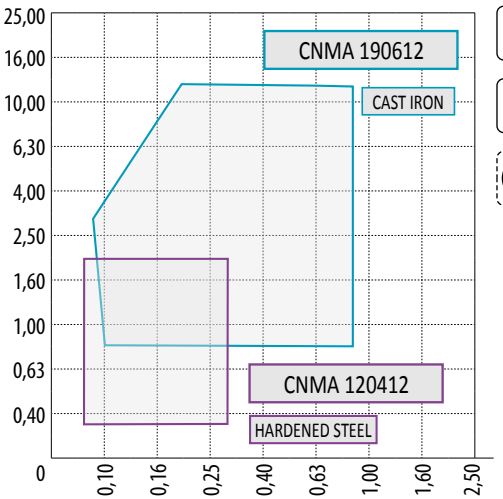


SNMG	CNMG CNGG	WNMG	TNMG	DNMG	VNMG
					

...A



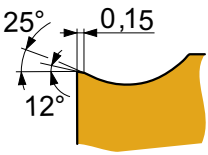
CNMA 190612



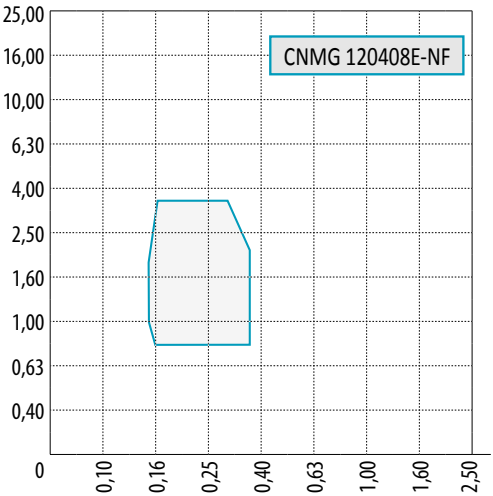
P	P1	
	P2	
	P3	
	P4	
M	M1	
	M2	
	M3	
	M4	
K	K1	■
	K2	■
	K3	◪
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	■
	H3	◪
	H4	■

SNMA	CNMA	WNMA	TNMA	DNMA		
						

NF

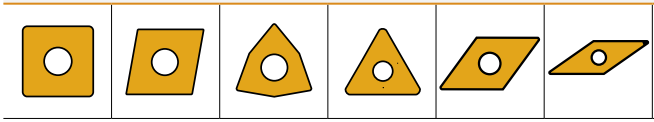


CNMG 120408E-NF

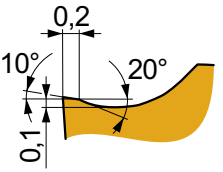


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	■
	H2	
	H3	◪
	H4	

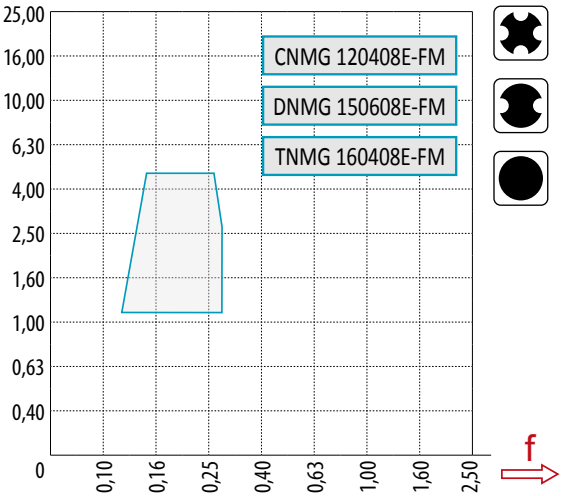
SNMG **CNMG** **WNMG** **TNMG** **DNMG** **VNMG**



FM

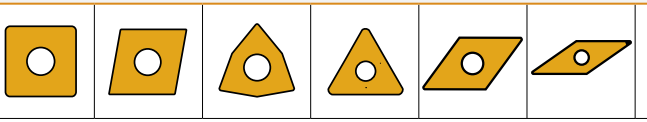


CNMG 120408E-FM

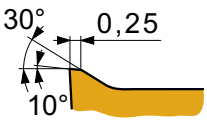


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	■
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	■
	H2	◪
	H3	■
	H4	◪

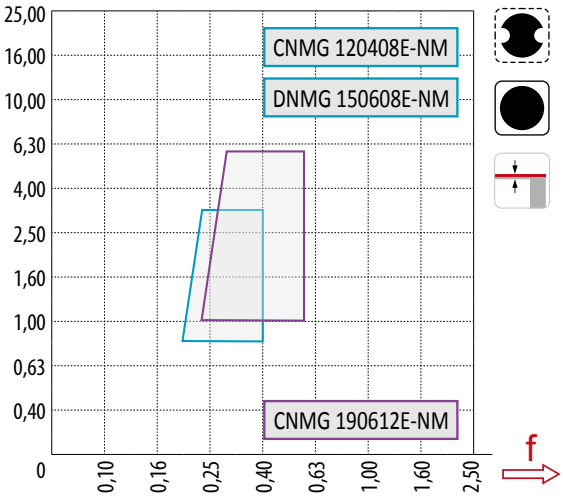
SNMG **CNMG** **WNMG** **TNMG** **DNMG** **VNMG**



NM



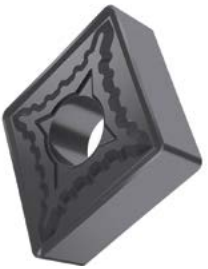
CNMG 120408E-NM

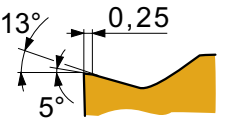


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	◪
	K4	
N	N1	◪
	N2	■
	N3	■
	N4	◪
S	S1	■
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

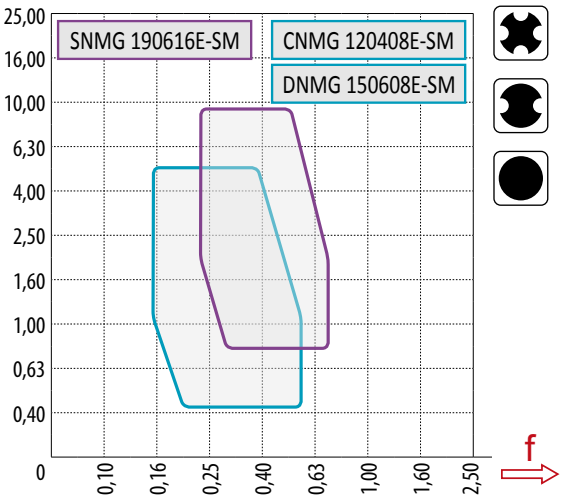
SNMG	CNMG	WNMG	TNMG	DNMG	VNMG
					

SM

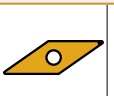




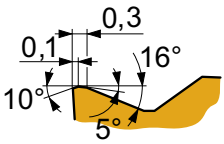
CNMG 120408E-SM



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	■

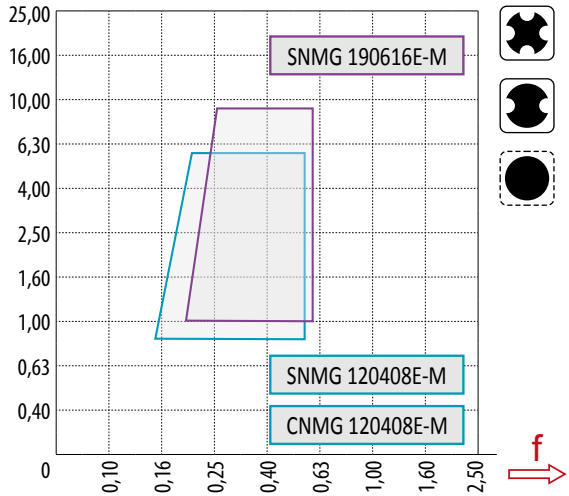
SNMG	CNMG	WNMG	TNMG	DNMG	VNMG
					

M

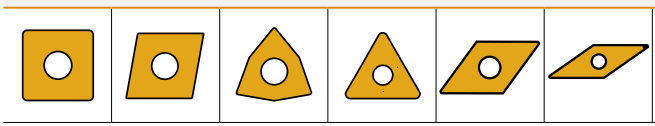


CNMG 120408E-M

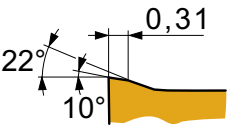
P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	
	M2	◪
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	■
	H4	◪



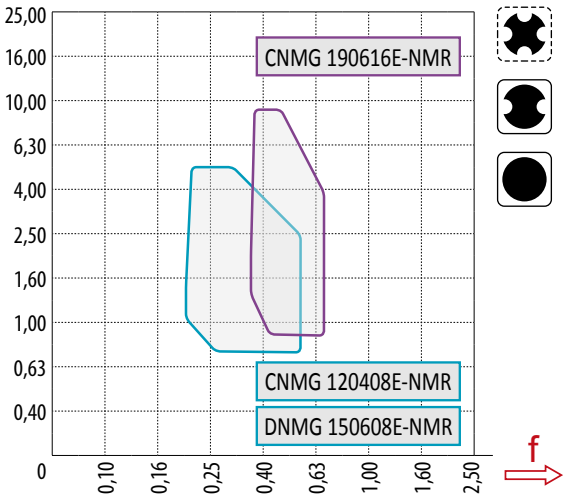
SNMG **CNMG** **WNMG** **TNMG** **DNMG** **VNMG**



NMR

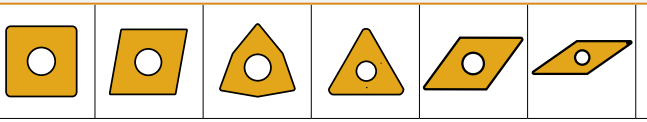


CNMG 120408E-NMR

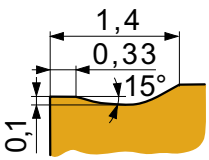


P	P1	■
	P2	■
	P3	■
	P4	◪
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	■
	K4	
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

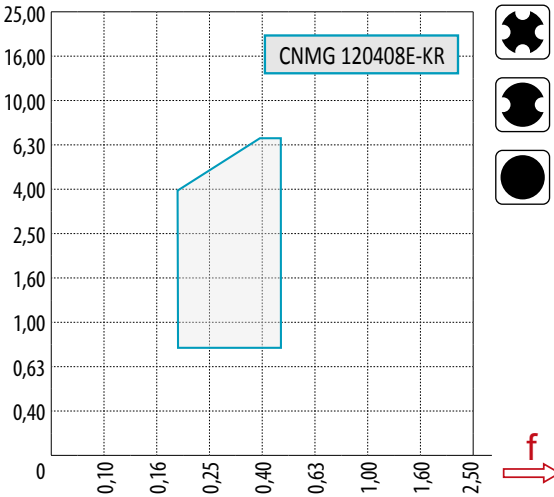
SNMG **CNMG** **WNMG** **TNMG** **DNMG** **VNMG**



KR



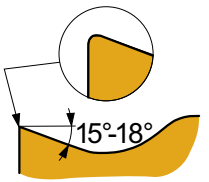
CNMG 120408E-KR



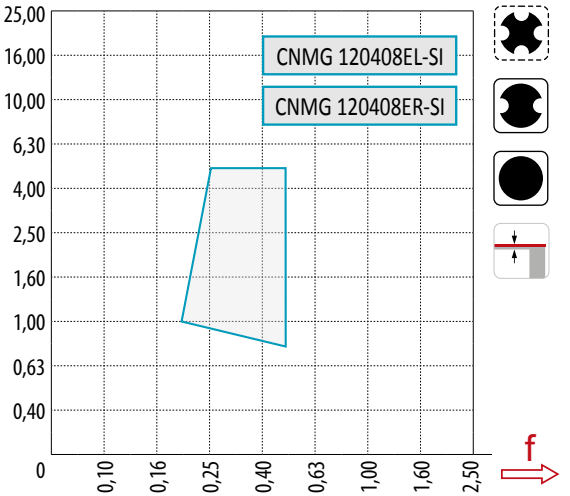
P	P1	
	P2	
	P3	
	P4	◪
M	M1	
	M2	
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	◪
	H2	■
	H3	◪
	H4	

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

SI

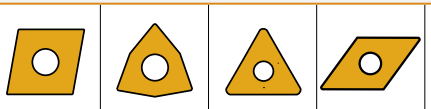


CNMG 120408ER-SI

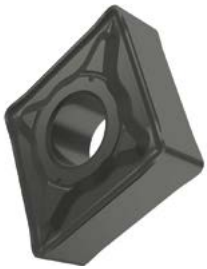


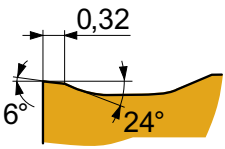
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	
	K4	
N	N1	◪
	N2	■
	N3	◪
	N4	■
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

CNMG WNMG TNMG DNMG

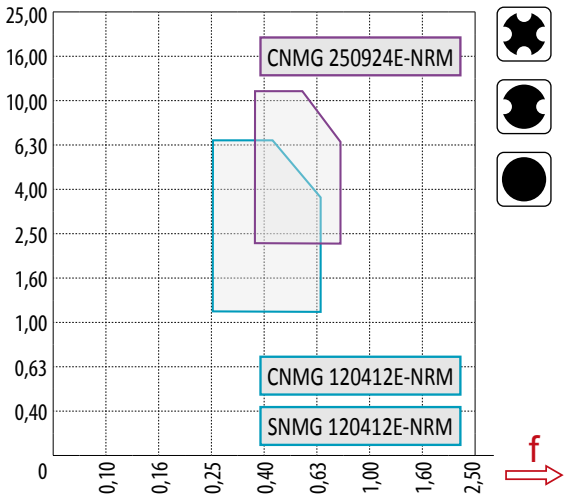


NRM





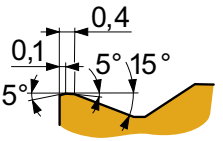
CNMG 120412E-NRM



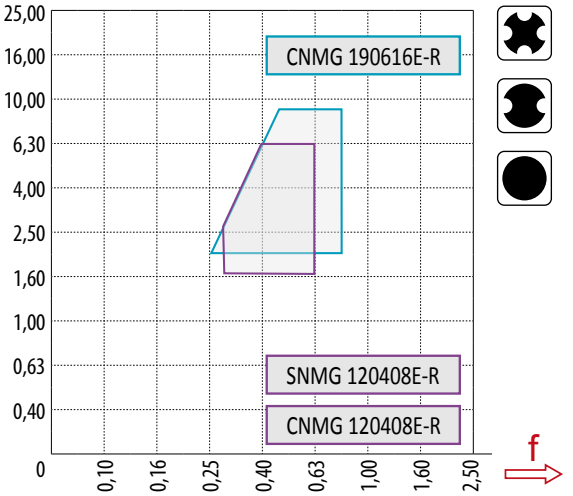
P	P1	■
	P2	■
	P3	■
	P4	◪
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	■
	K4	
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

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

R

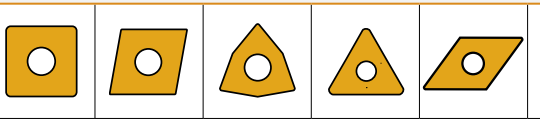


CNMG 190616E-R

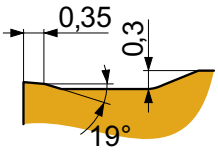


P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	■
	H4	◪

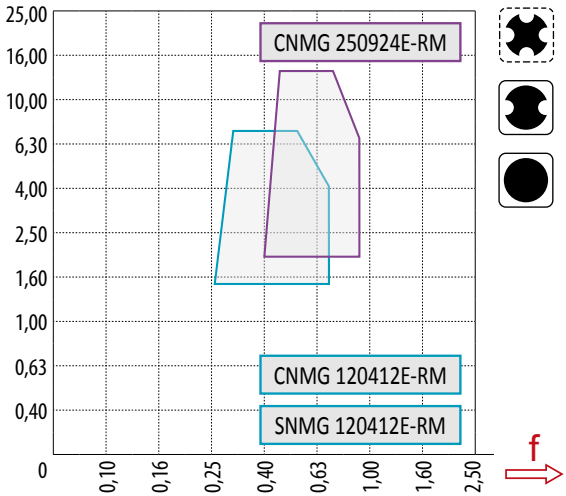
SNMG **CNMG** **WNMG** **TNMG** **DNMG**



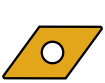
RM



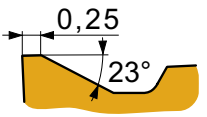
CNMG 120408E-RM



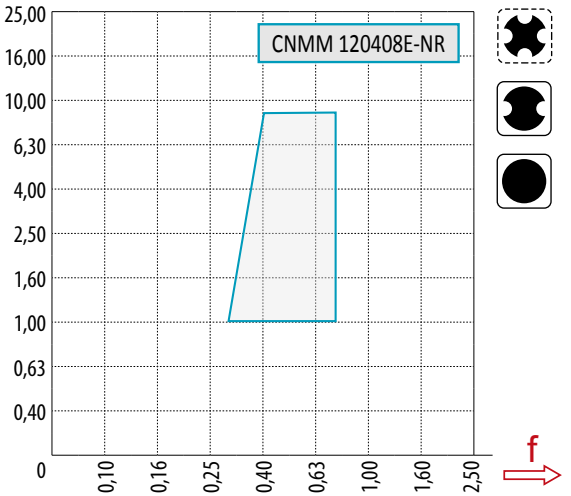
P	P1	■
	P2	■
	P3	■
	P4	◪
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

SNMG	CNMG	WNMG	TNMG	DNMG		
						

NR



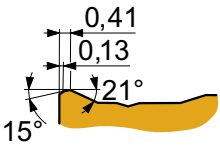
CNMM 120408E-NR



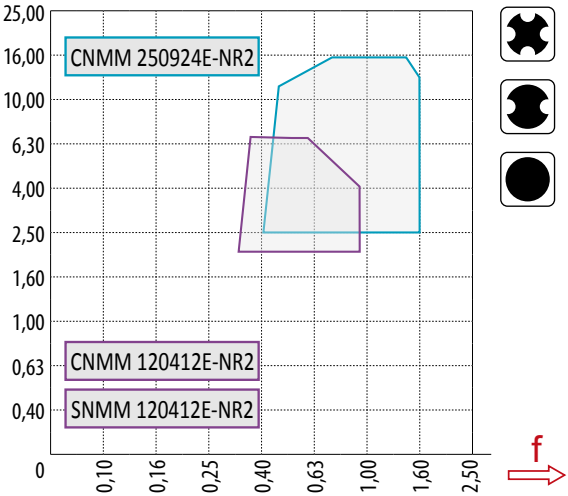
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

SNMM CNMM WNMM DNMM

NR2

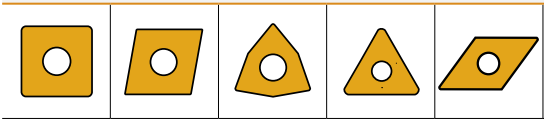


CNMM 250924E-NR2

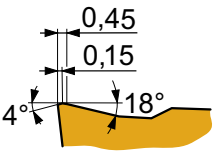


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

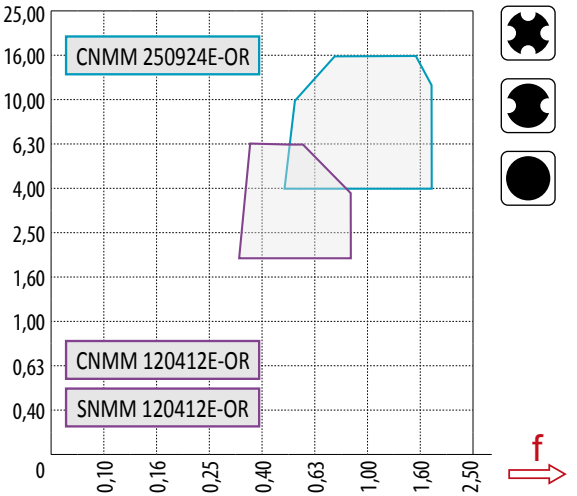
SNMM **CNMM** **WNMM** **TNMM** **DNMM**



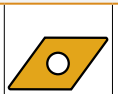
OR



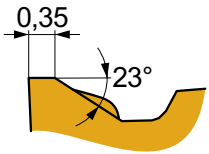
CNMM 250924E-OR



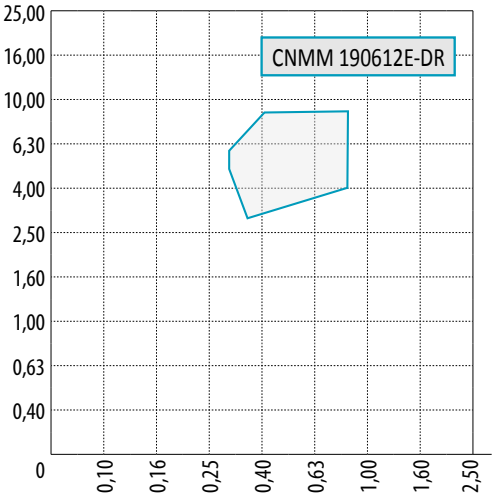
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	◪
	H2	
	H3	
	H4	

SNMM	CNMM	WNMM	TNMM	DNMM		
						

DR

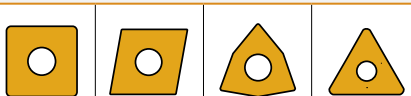


CNMM 190616-DR

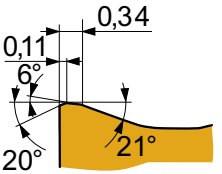


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

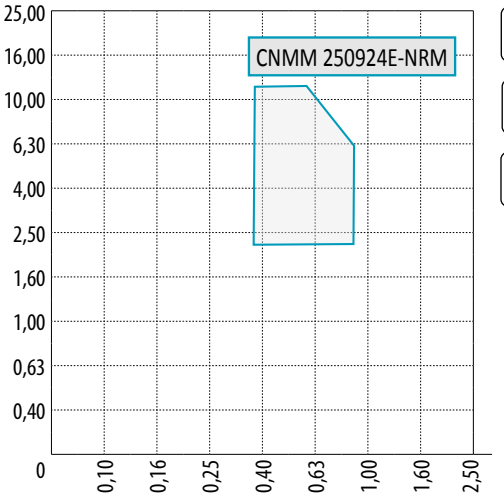
SNMM CNMM WNMM TNMM



NRM



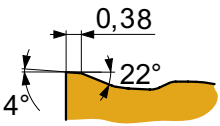
CNMM 250924E-NRM



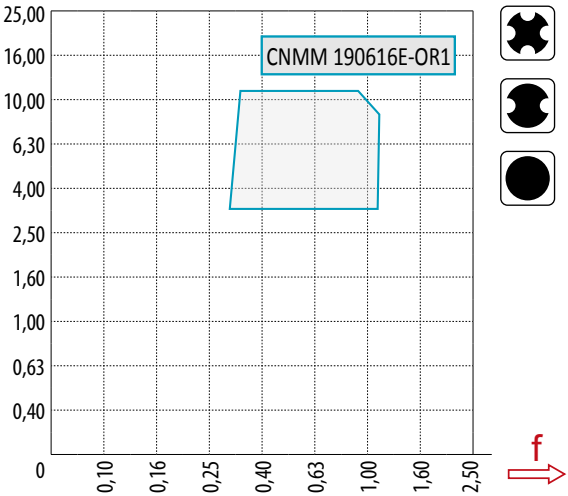
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	◪
	H2	
	H3	
	H4	

SNMM **CNMM**

OR1

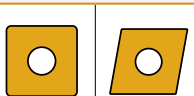


CNMM 190616E-OR1

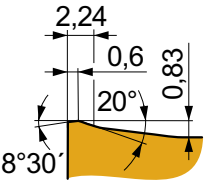


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	◪
	H2	
	H3	
	H4	

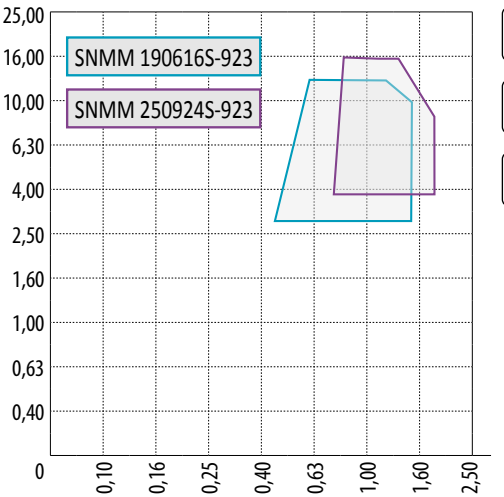
SNMM **CNMM**



923



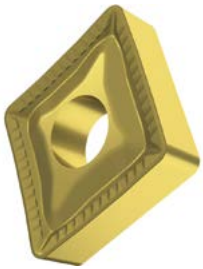
SNMM 250924S-923

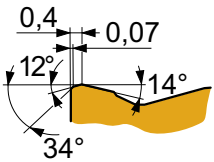


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

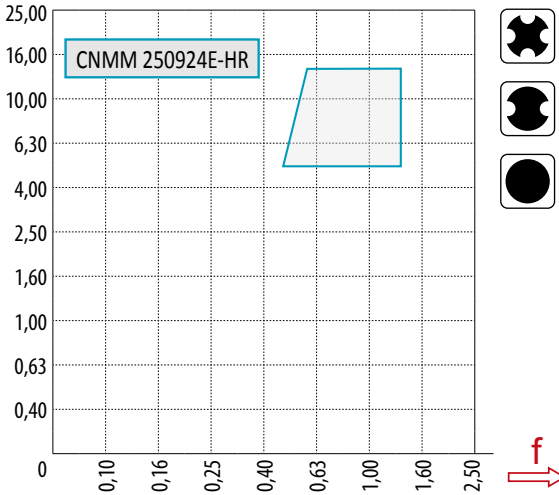
SNMM **CNMM**

HR





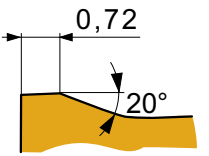
CNMM 250924E-HR



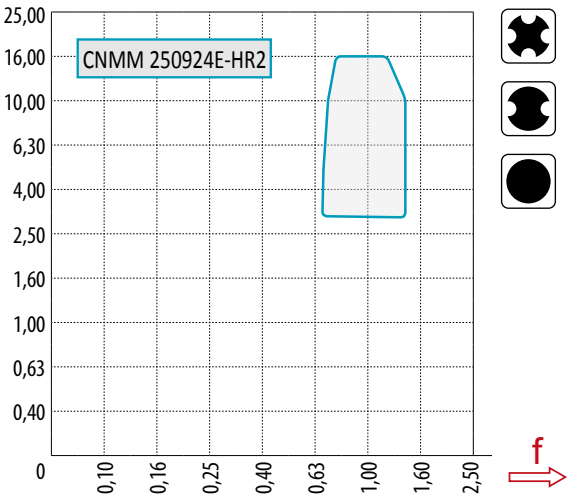
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

SNMM CNMM TNMM

HR2



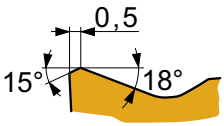
CNMM 250924E-HR2



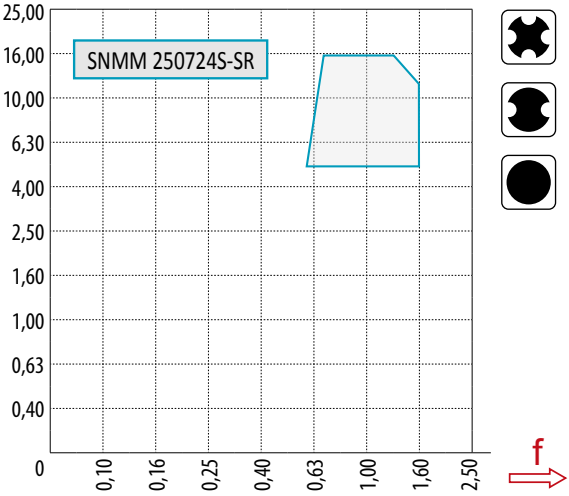
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

SNMM **CNMM**

SR

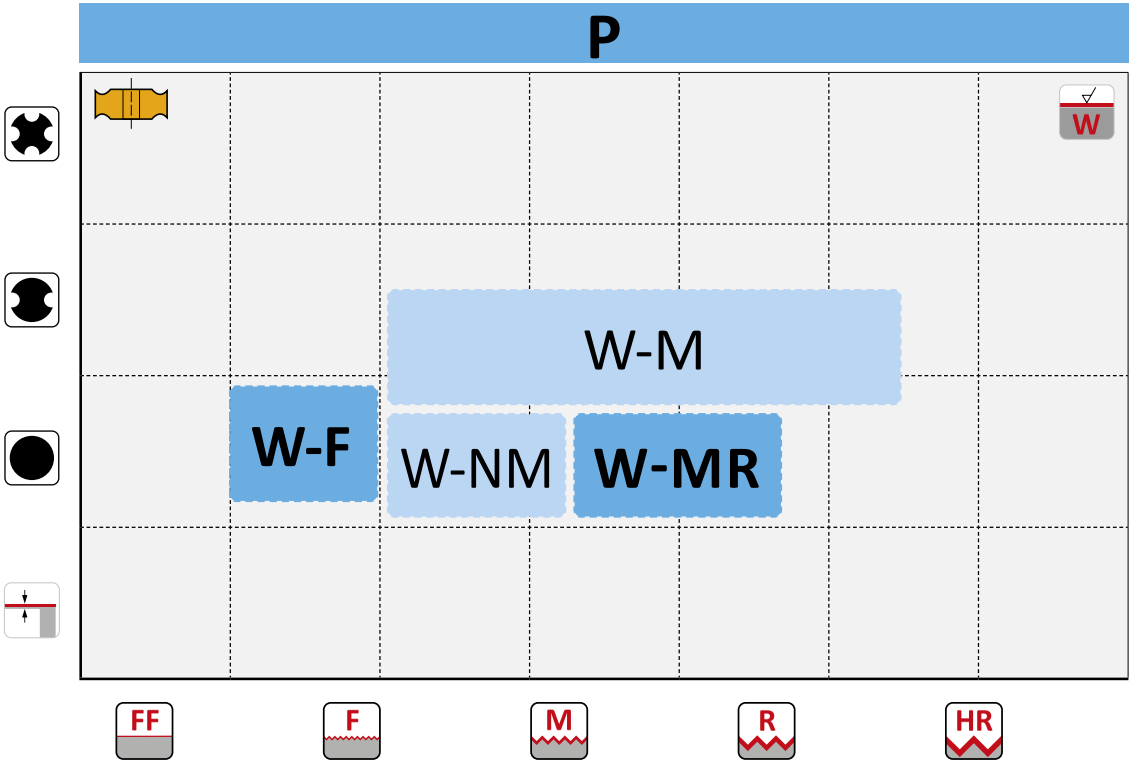


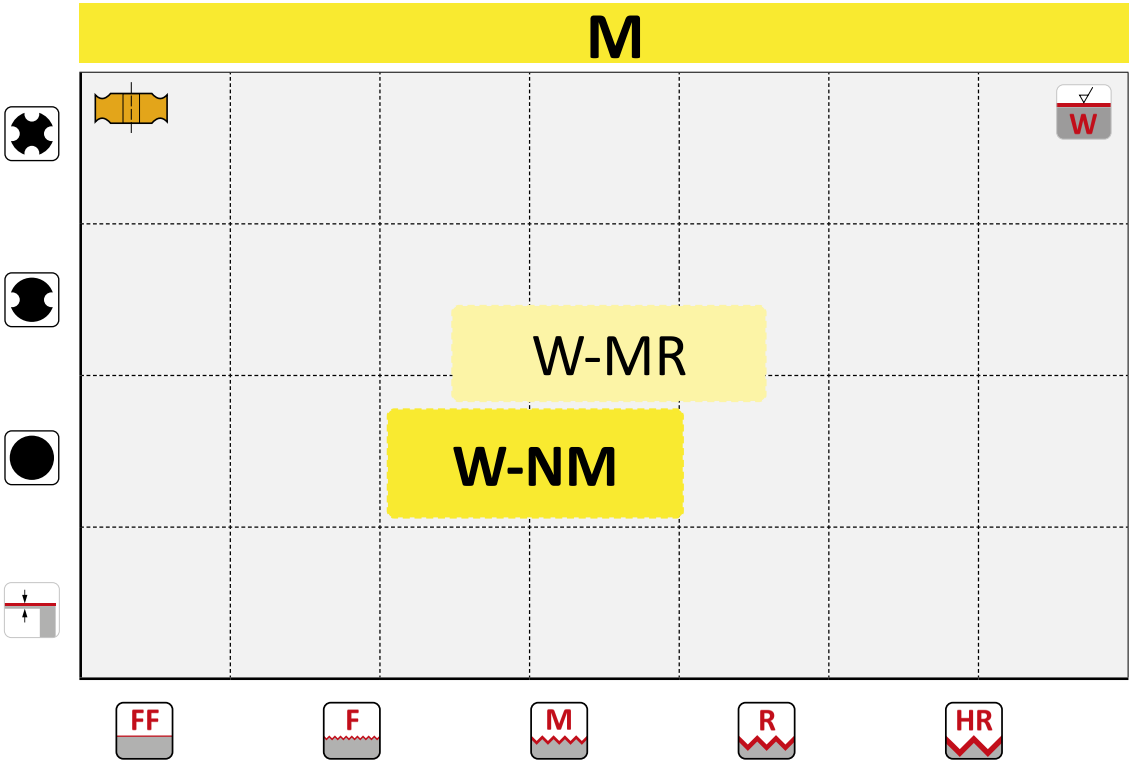
SNMM 250724S-SR

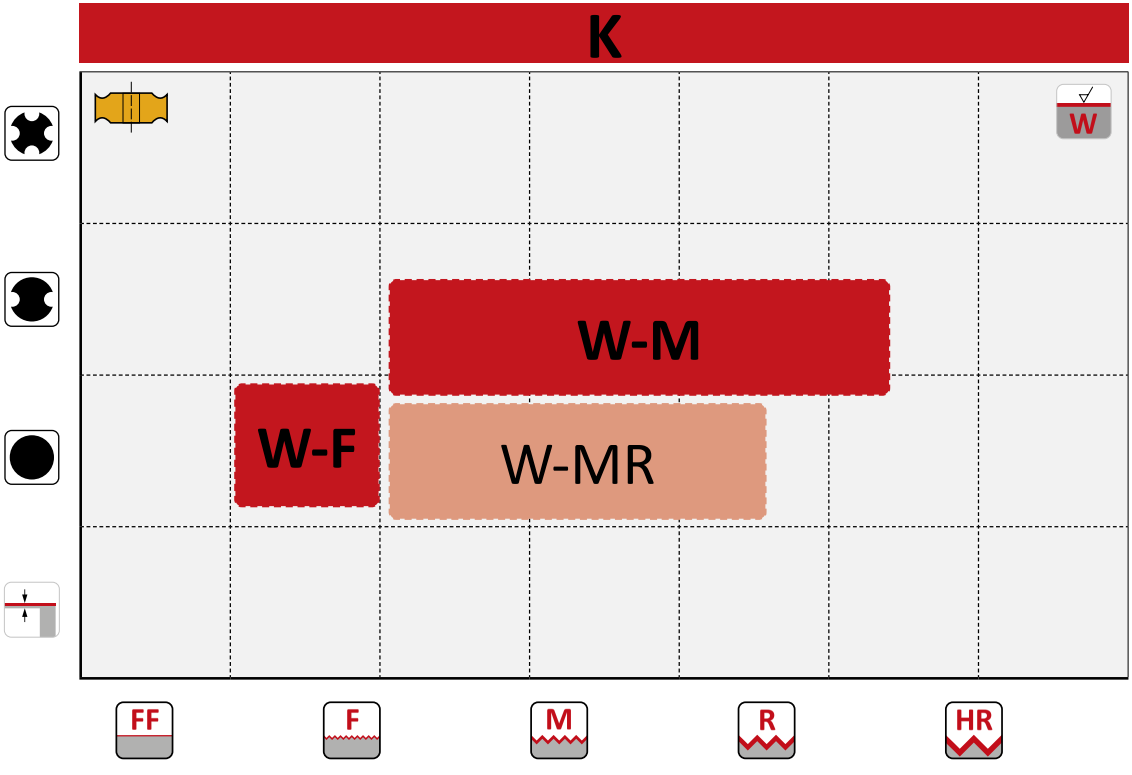


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

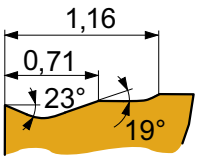
SNMM


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

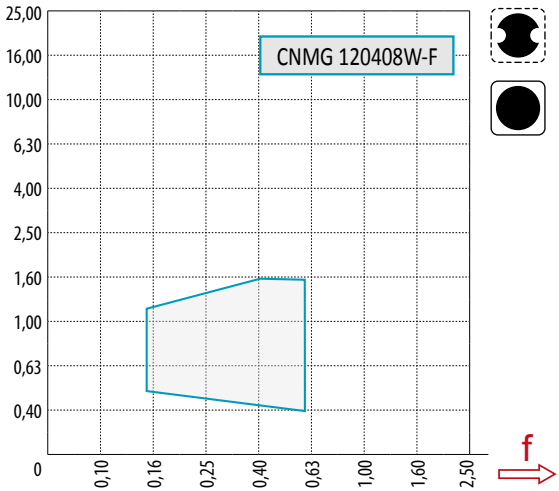

K
W
W-M
W-F
W-MR
FF
F
M
R
HR

W-F



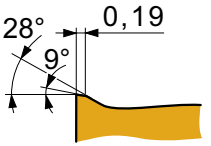
CNMG 120408W-F

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	-

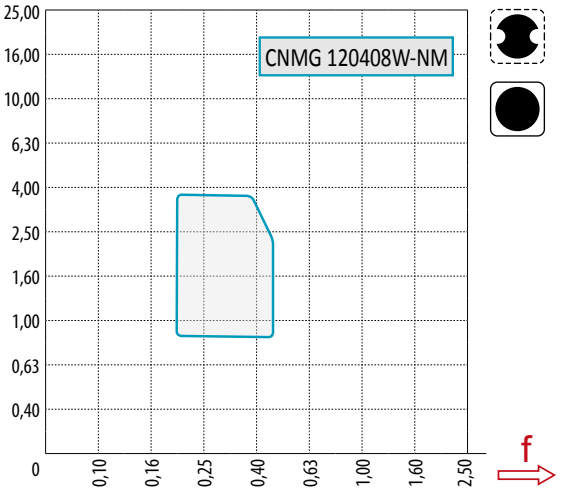


CNMG **WNMG**

W-NM



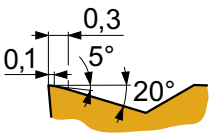
CNMG 120408W-NM



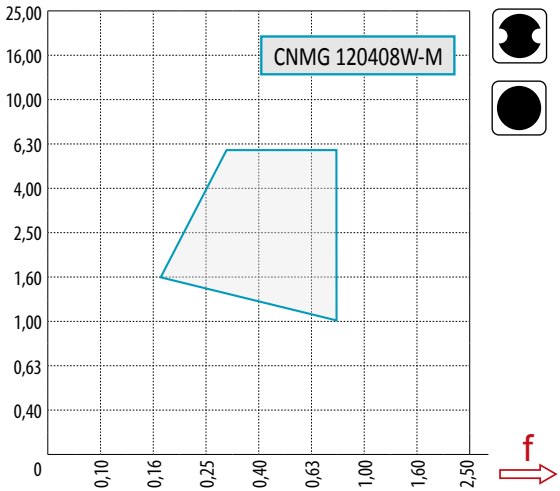
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	◪
	N2	◪
	N3	◪
	N4	◪
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

CNMG WNMG DNMX

W-M



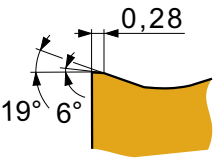
CNMG 120408W-M



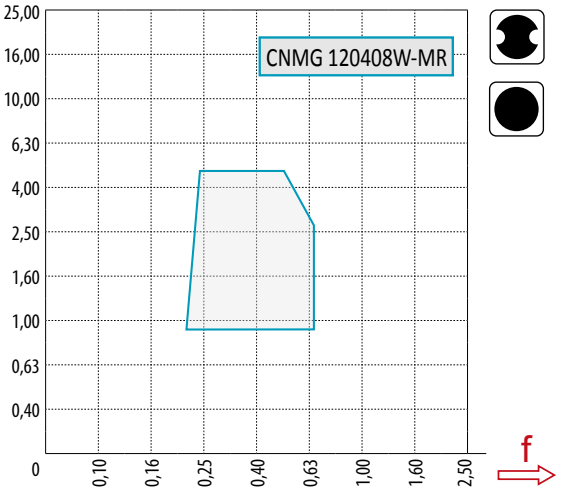
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	
	M2	
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

CNMG **WNMG**

W-MR



CNMG 120408W-MR

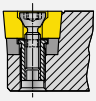


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

CNMG WNMG DNMG

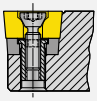
CLAMPING DESIGNATION ISO S

S

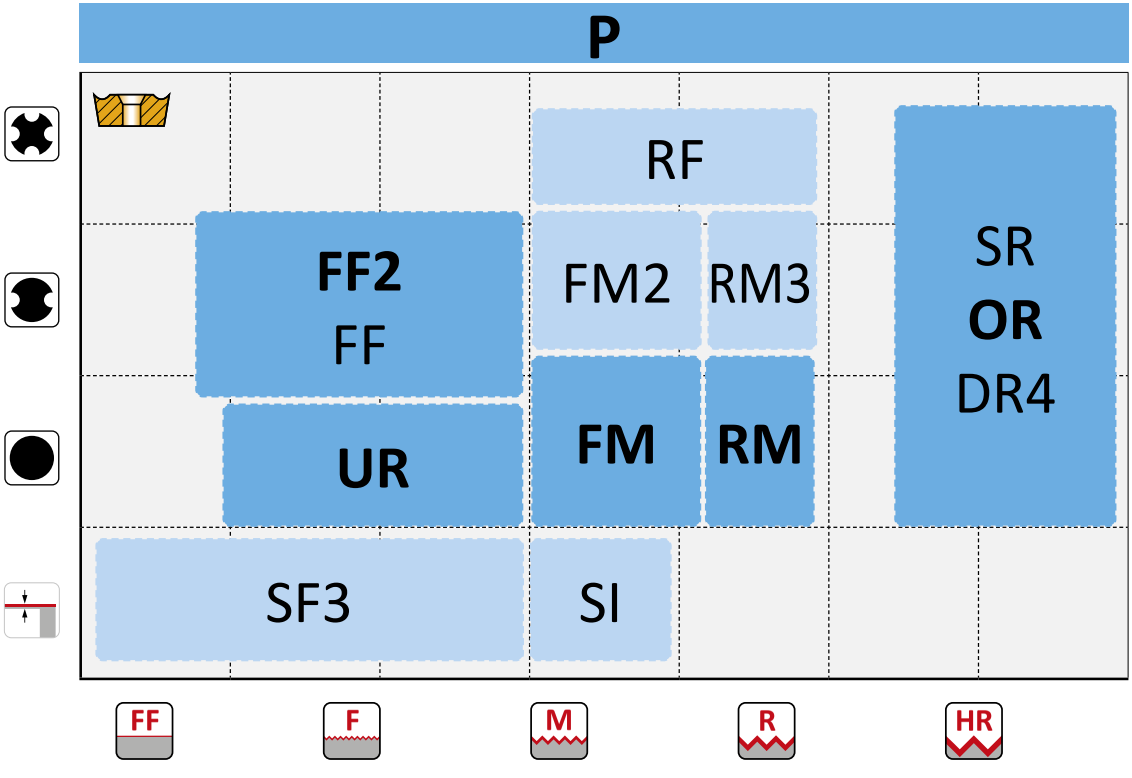


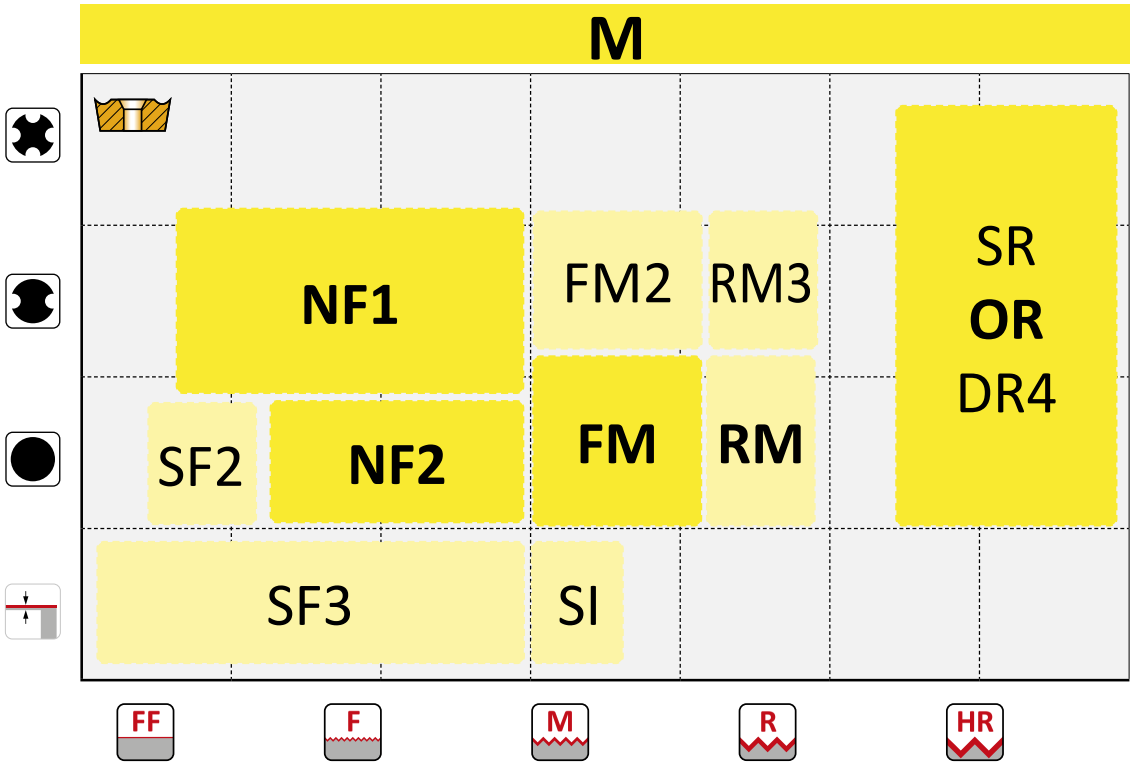
Chip breaker	≥ f_{min} (mm/rev)	R	S	C	W	E	T	D	V	
FF2	0,02		✓	✓	✓		✓	✓	✓	10
SF2	0,02					✓			✓	11
SF3	0,02		✓	✓		✓	✓	✓	✓	12
FM2	0,04		✓	✓		✓	✓	✓	✓	13
NF1	0,04		✓	✓			✓	✓		14
AL	0,05	✓	✓	✓	✓		✓	✓	✓	15
FF	0,05			✓				✓		16
NF2	0,05	✓	✓	✓		✓	✓		✓	17
FM	0,08		✓	✓	✓		✓	✓	✓	18
SI	0,08			✓			✓			19
...W	0,10	✓	✓	✓			✓	✓	✓	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

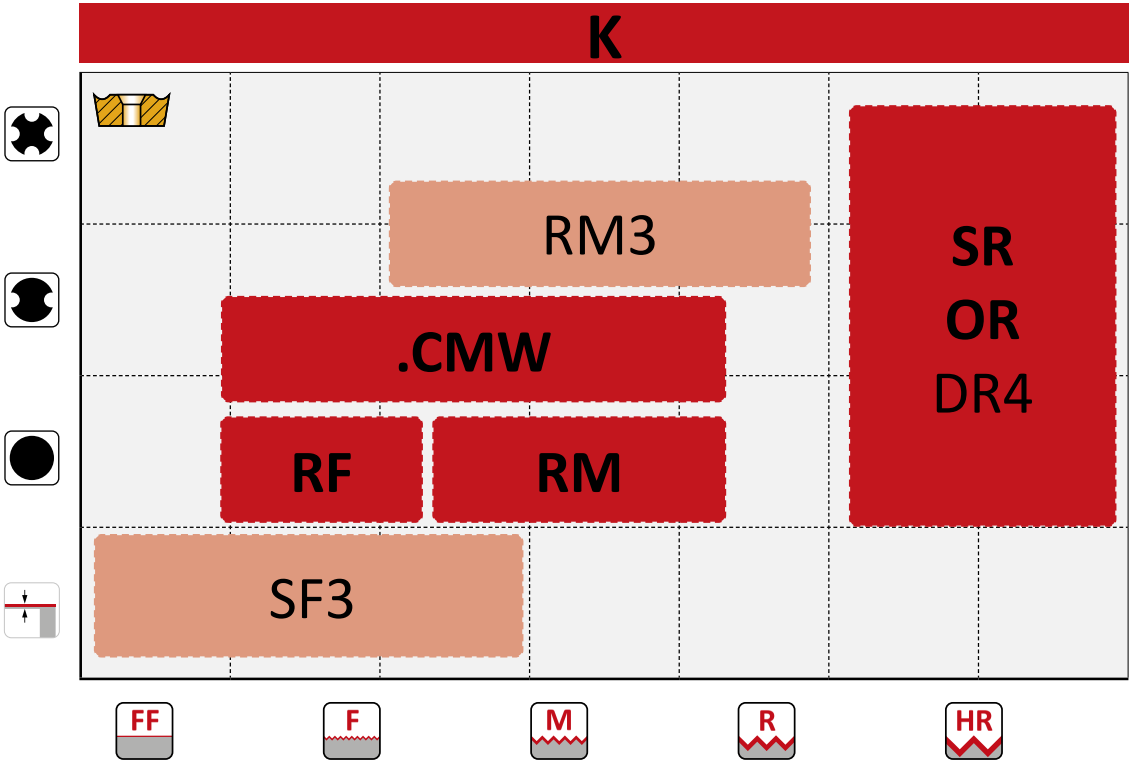
S

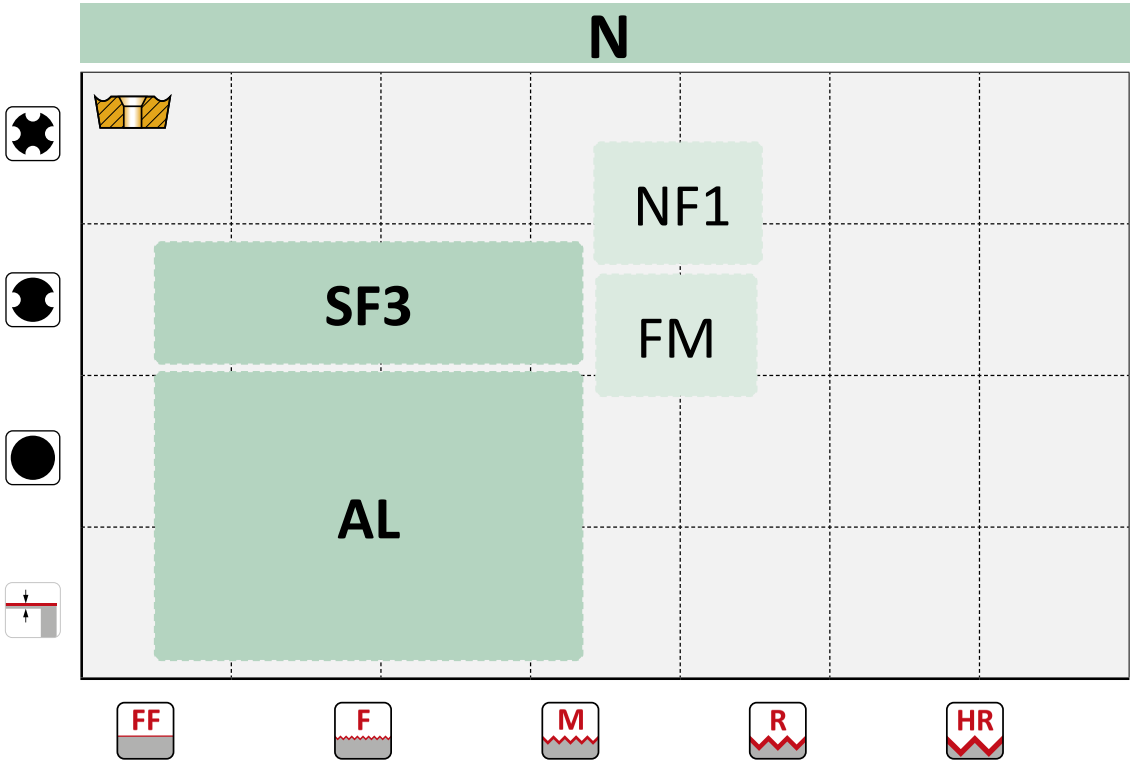


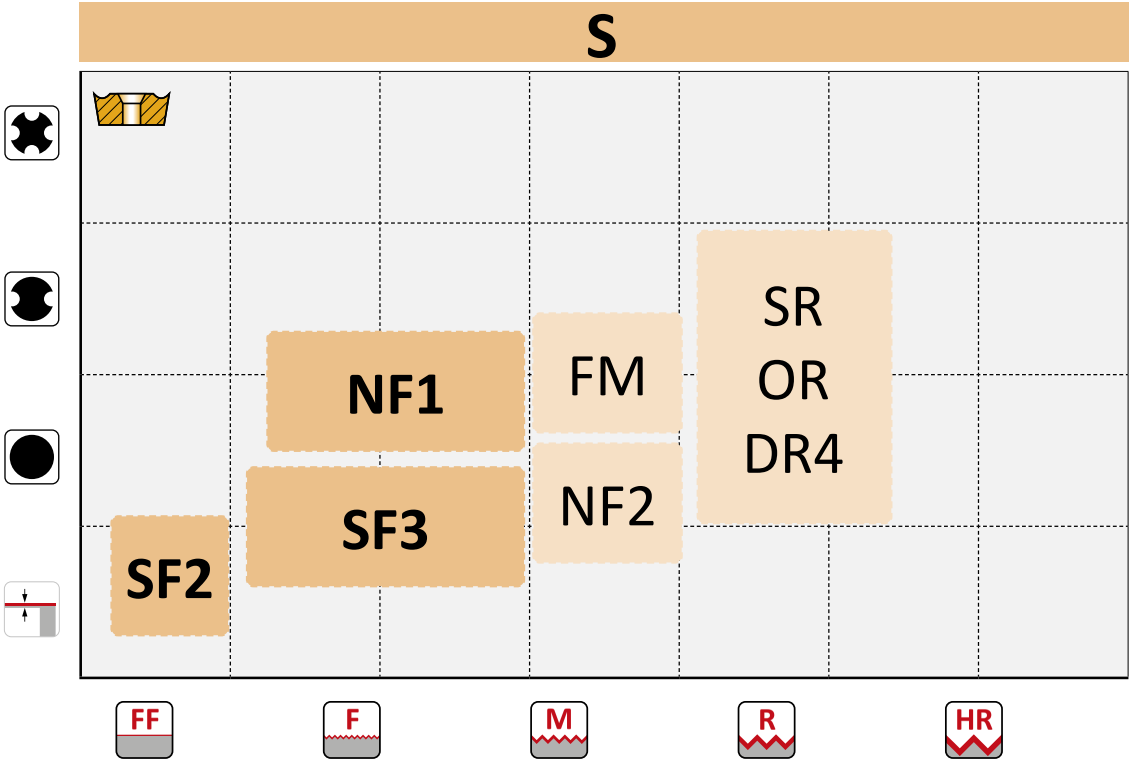
Chip breaker	≥ f_{min} (mm/rev)	R	S	C	W	E	T	D	V	
	W									
W-UR	0,08			✓						31
W-FM	0,10			✓				✓		32

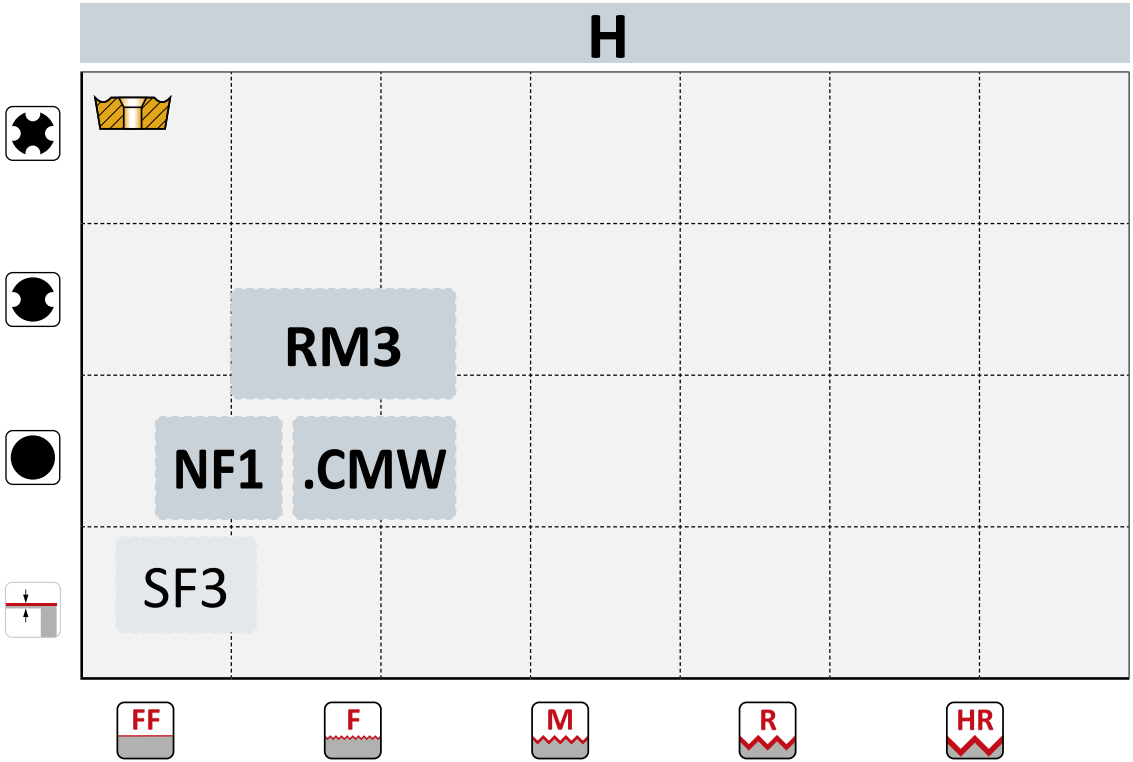

P
RF
FF2
FF
FM2
RM3
SR
OR
DR4
UR
FM
RM
SF3
SI
FF
F
M
R
HR


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

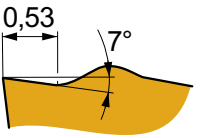

K
RM3
SR
OR
DR4
.CMW
RF
RM
SF3
FF
F
M
R
HR


N
NF1
SF3
FM
AL
FF
F
M
R
HR

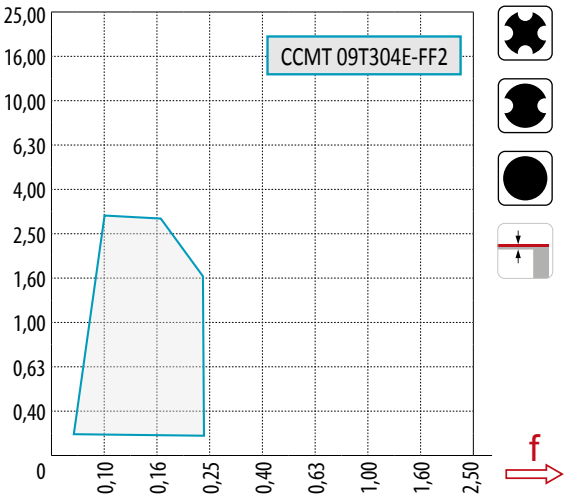

S
NF1
SF3
SF2
FM
NF2
SR
OR
DR4
FF
F
M
R
HR


H
RM3
NF1
.CMW
SF3
FF
F
M
R
HR

FF2



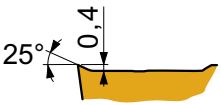
CCMT 09T304E-FF2



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	

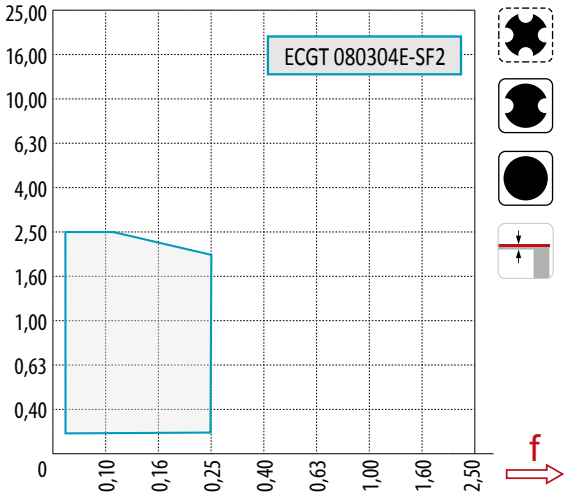
SCMT	CCMT CCGT	WCGT	TCMT TCGT	DCMT DCGT	VBMT VCGT VCGX
					

SF2

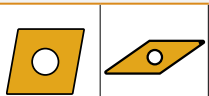


ECGT 080304E-SF2

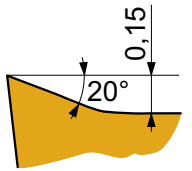
P	P1	■
	P2	◪
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	◪
	N2	◪
	N3	◪
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	◪
	H2	
	H3	
	H4	



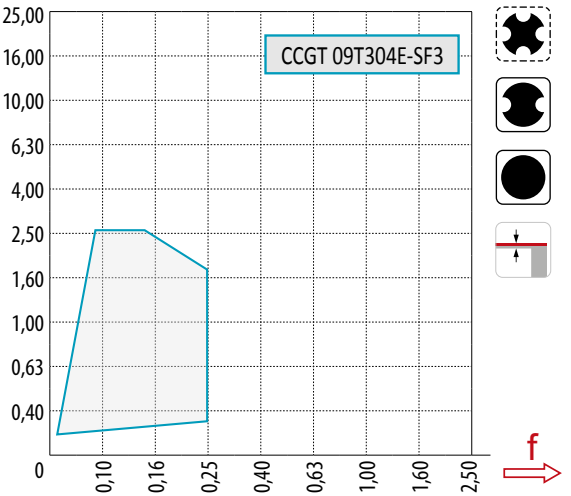
ECMT **VCGT**



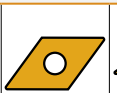
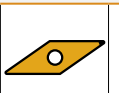
SF3



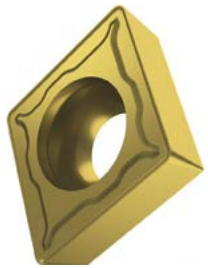
CCGT 09T304E-SF3

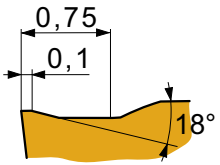


P	P1	■
	P2	◪
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	◪
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	◪
	H2	
	H3	
	H4	

SCGT	CCGT	ECGT	TCGT	DCGT	VCGT
					

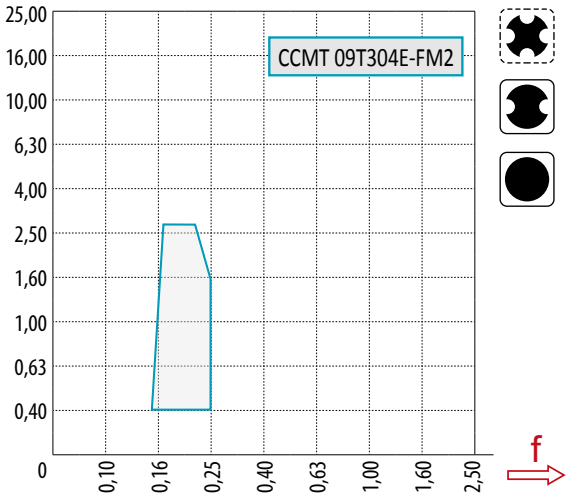
FM2

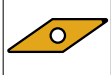




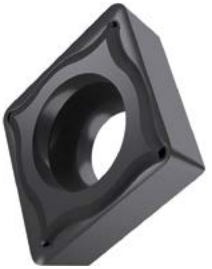
CCMT 09T304E-FM2

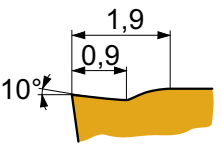
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	◪
	H3	■
	H4	◪



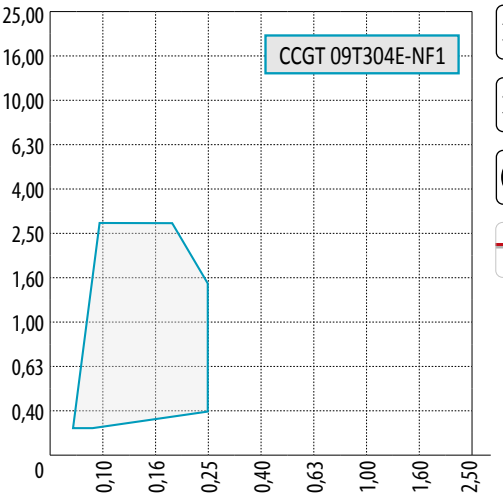
SCMT	CCMT	ECMT	TCMT	DCMT	VBMT VCGT
					

NF1





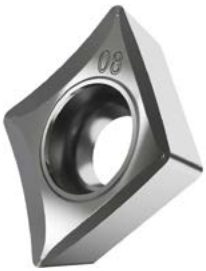
CCGT 09T304E-NF1

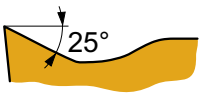


P	P1	■
	P2	◪
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	◪
	H3	◪
	H4	◪

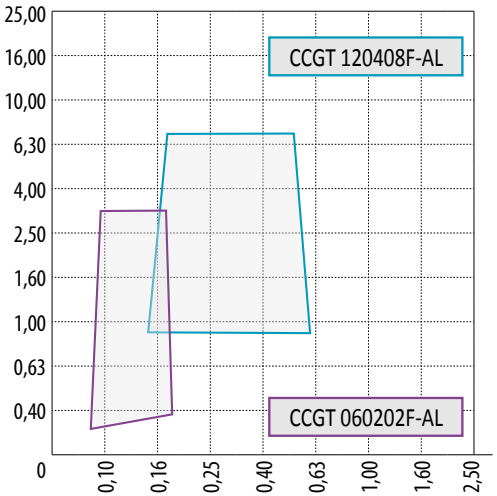
SCGT **CCGT** **TCGT** **DCGT**

AL

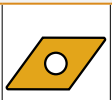
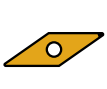




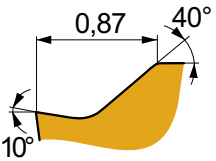
CCGT 120408F-AL



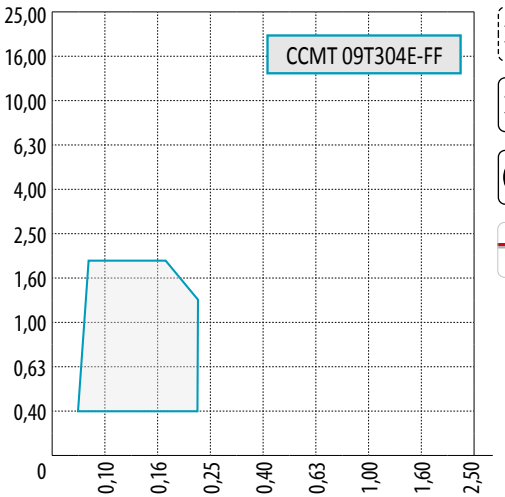
P	P1	◪
	P2	◪
	P3	◪
	P4	◪
M	M1	◪
	M2	◪
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	■
	N2	■
	N3	■
	N4	■
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	◪
	H2	
	H3	
	H4	

RCGT	SCGT	CCGT	WCGT	TCGT	DCGT	VCGT
						

FF



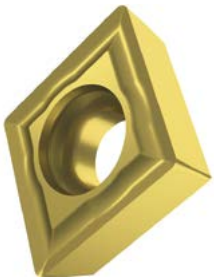
CCMT 09T304E-FF



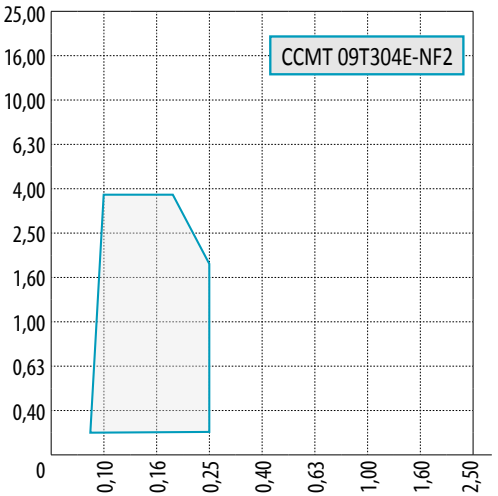
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

CCMT **DCMT**

NF2



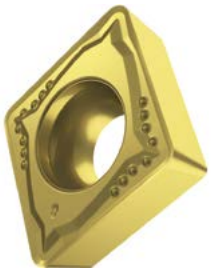
CCMT 09T304E-NF2



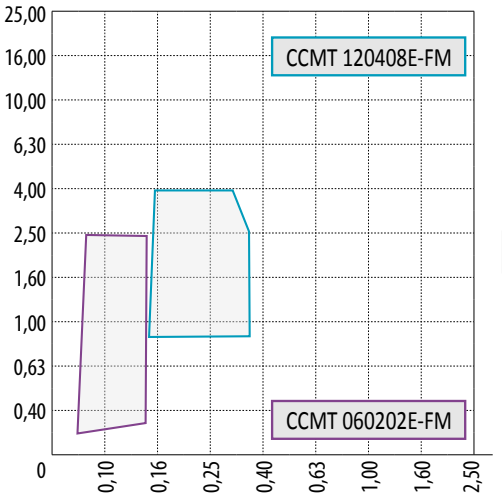
P	P1	■
	P2	■
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	◪
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

RCMT	SCMT	CCMT	TCMT	VCGT		
						

FM



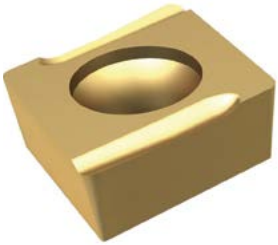
CCMT 120408E-FM



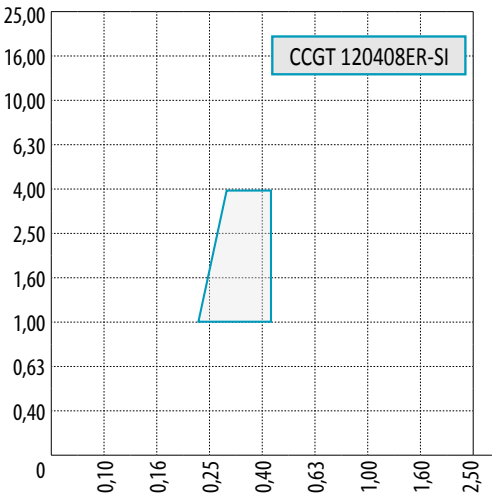
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	◪
S	S1	◪
	S2	◪
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

RCMT	SCMT	CCMT	WCMT	TCMT	DCMT	VBMT VCMT
						

SI



CCGT 120408ER-SI

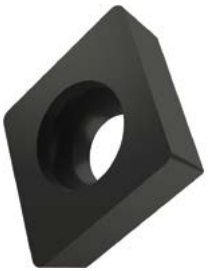


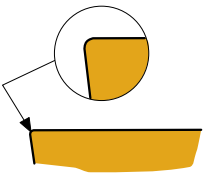
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	◪
	N3	◪
	N4	◪
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

CCGT **DCGT** **TCGT**

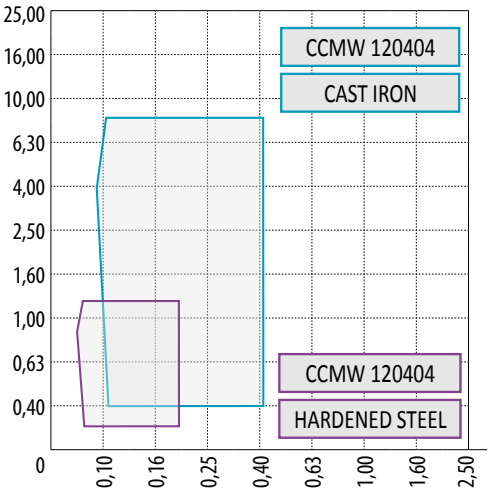


...W

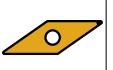




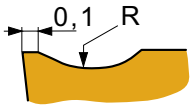
CCMW 120408



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	■

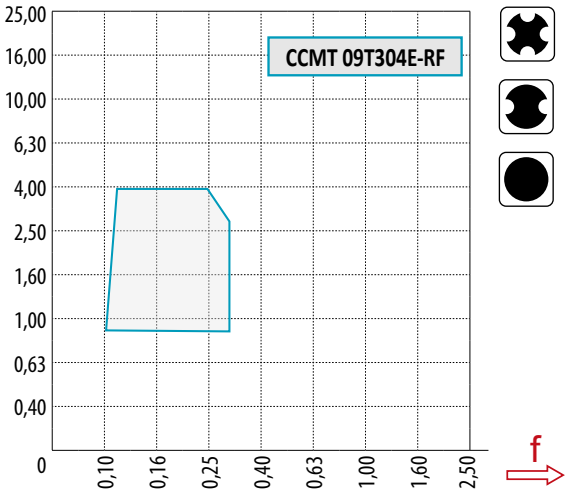
RCMW	SCMW	CCMW	TCMW	DCMW	VCMW	ECMT
						

RF

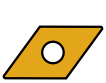


I.C.	R
6,35	1,0
9,525	1,5
12,7	2,5

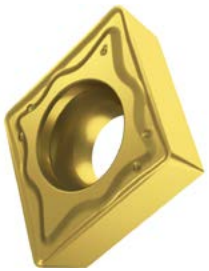
CCMT 09T304E-RF

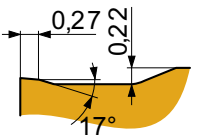


P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	◪
	H4	◪

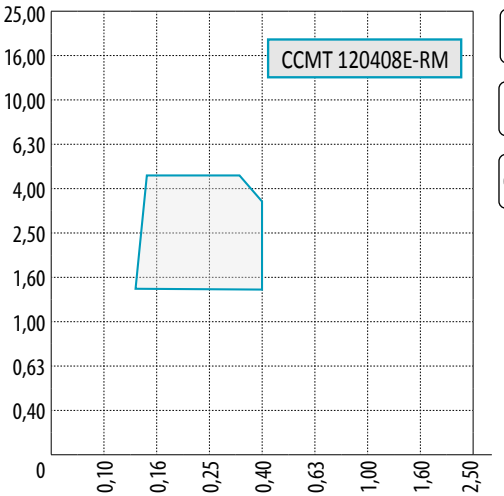
SCMT	CCMT	WCMT	TCMT	DCMT		
						

RM



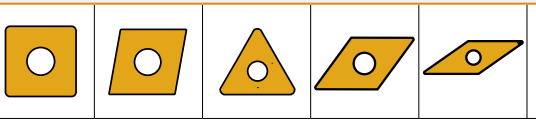


CCMT 120408E-RM

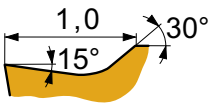


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	■
	H2	■
	H3	■
	H4	◪

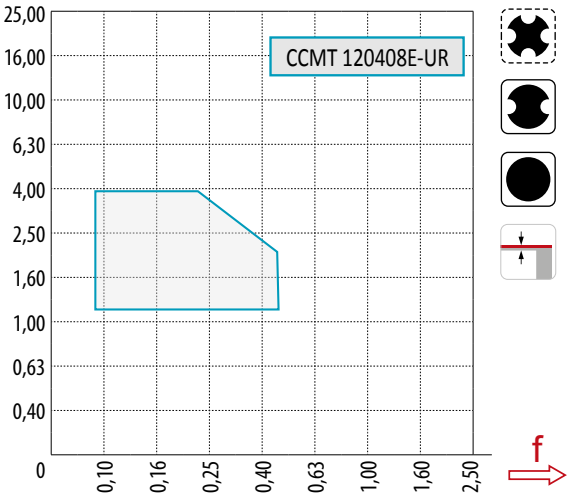
SCMT **CCMT** **TCMT** **DCMT** **VBMT**



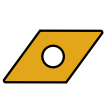
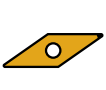
UR



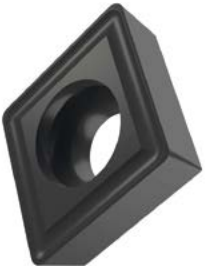
CCMT 120408E-UR

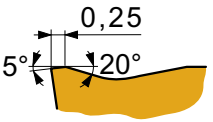


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	◪
N	N1	
	N2	◪
	N3	
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

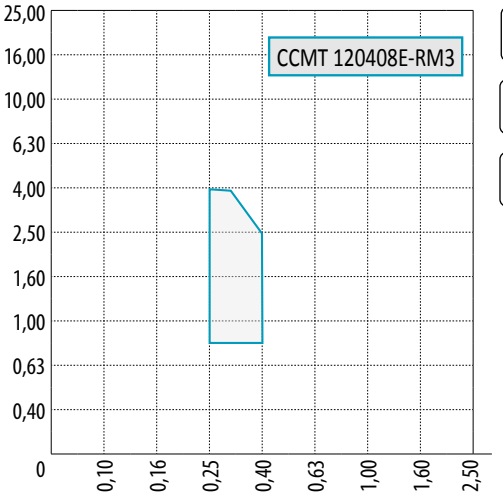
RCMT	SCMT	CCMT	WCMT	TCMT	DCMT	VBMT VCMT
						

RM3





CCMT 120408E-RM3

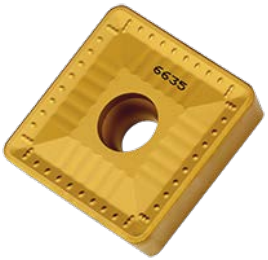


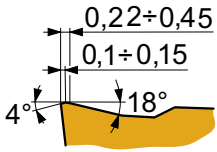
P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	■
	H4	◪

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

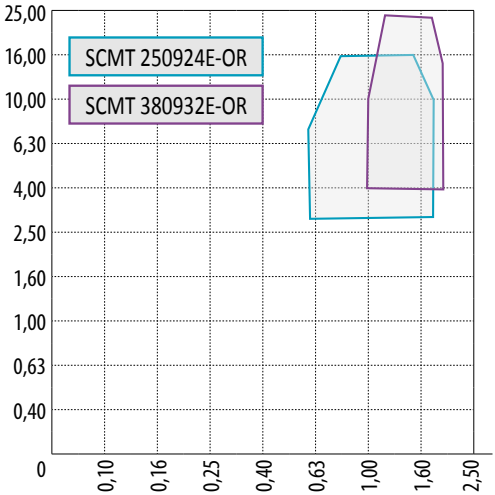



OR





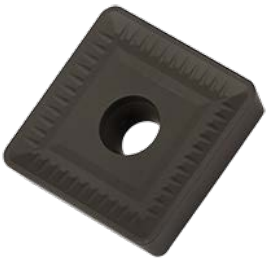
SCMT 250924E-OR

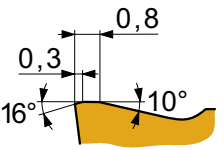


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

SCMT

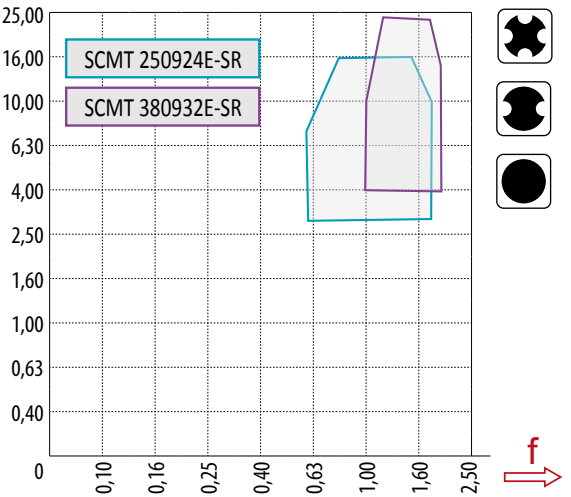
SR





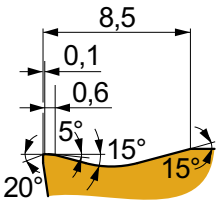
SCMT 250924E-SR

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	

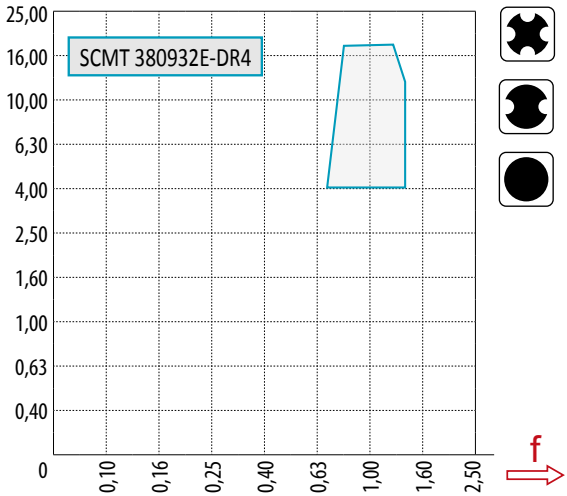


SCMT

DR4

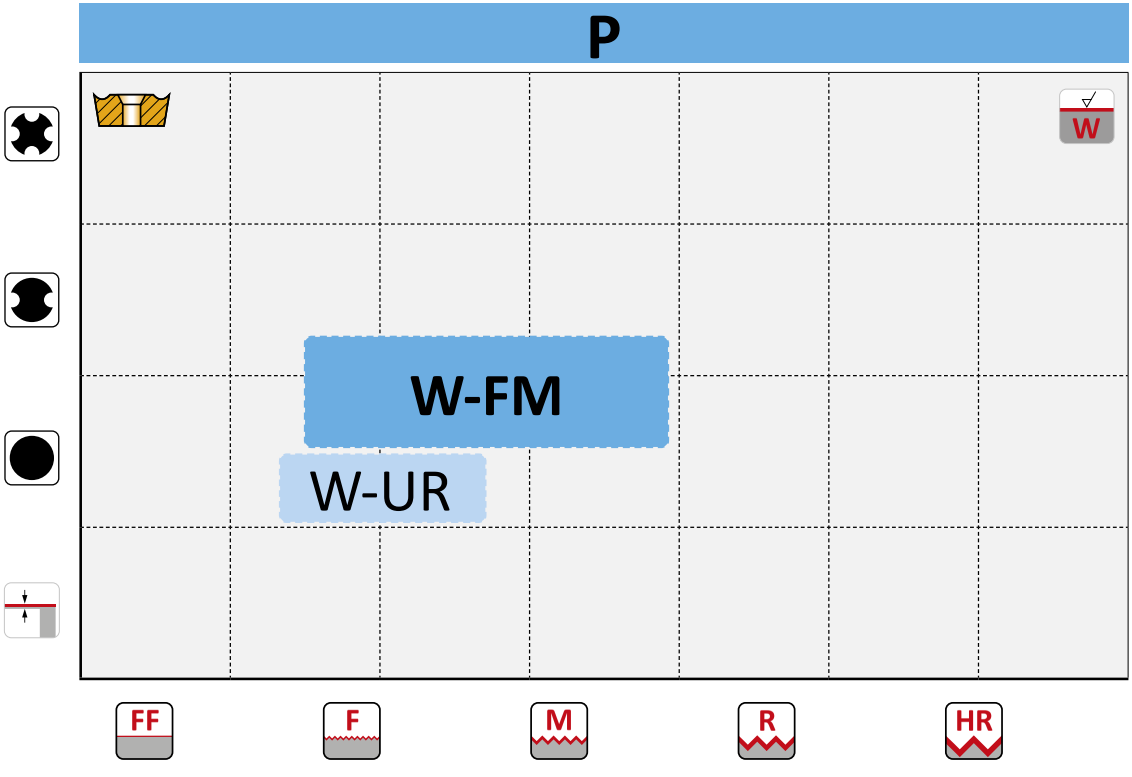


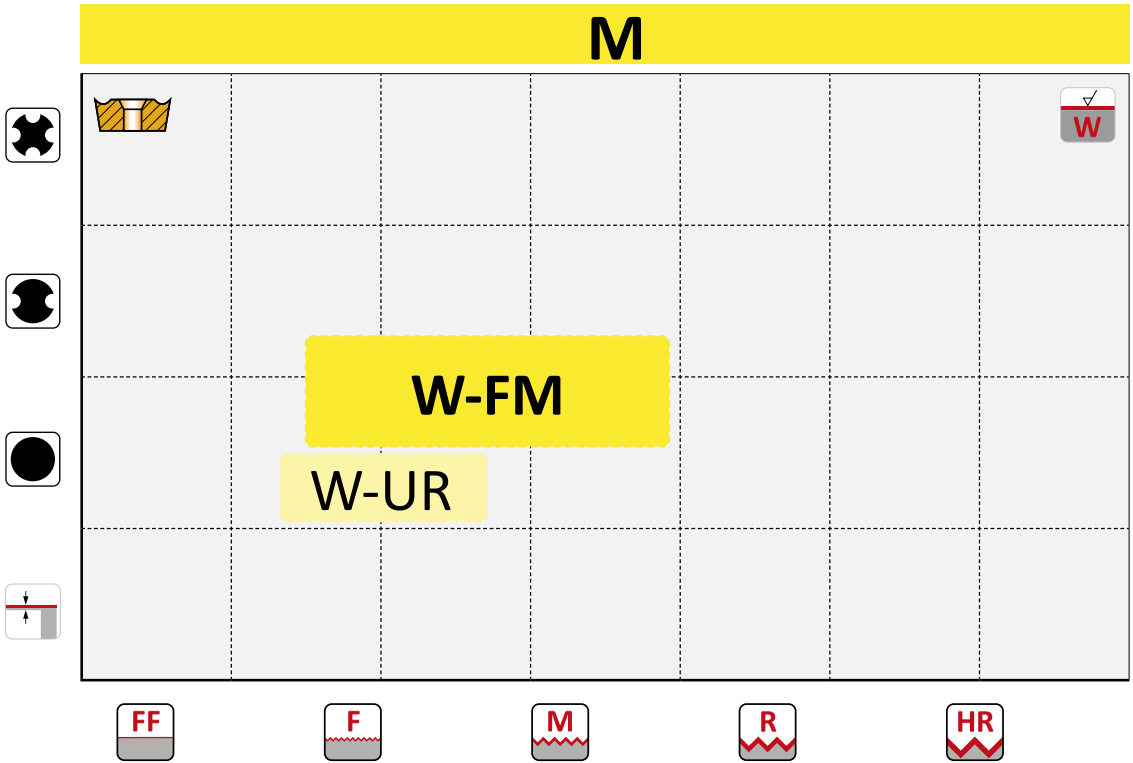
SCMT 380932E-DR4

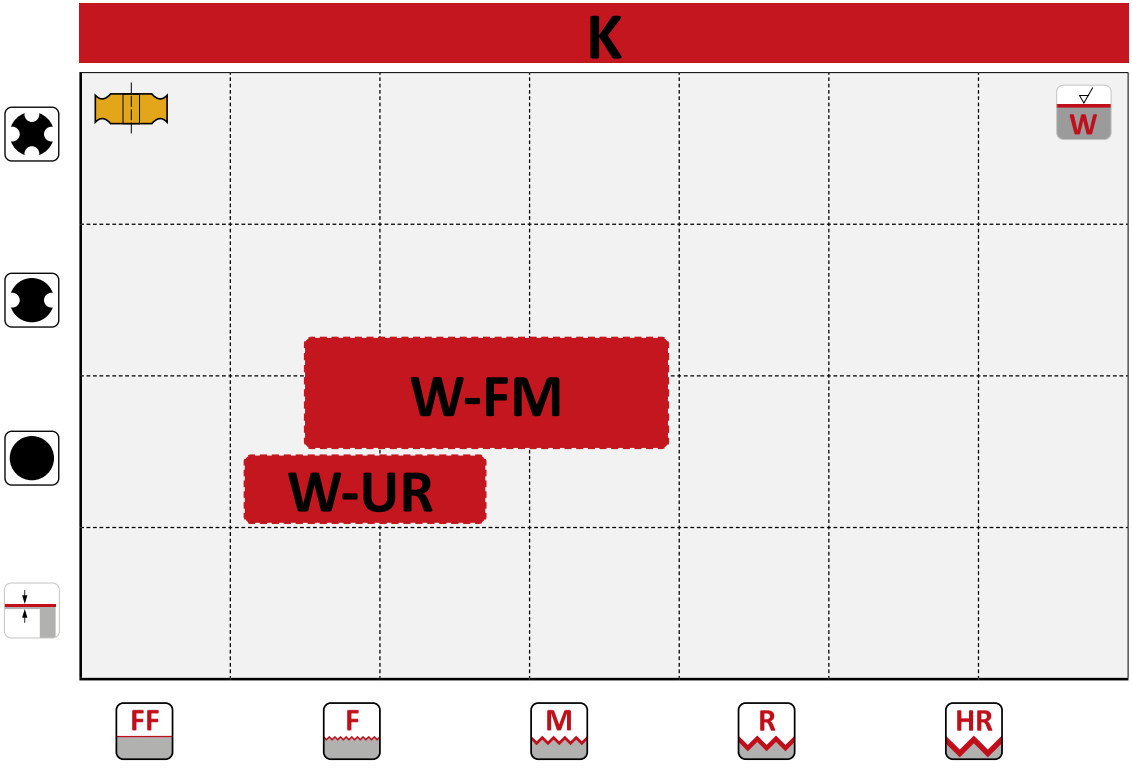


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

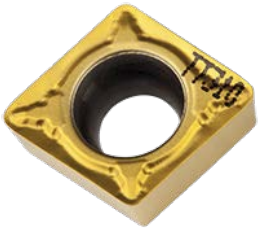
SCMT

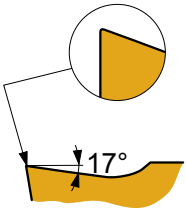

P
W
W-FM
W-UR
FF
F
M
R
HR


M
W
W-FM
W-UR
FF
F
M
R
HR

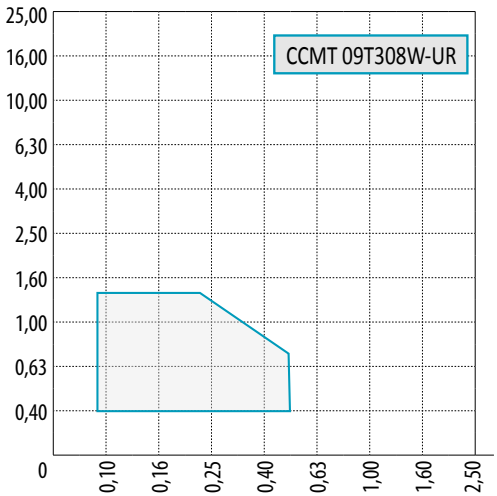

K
W
W-FM
W-UR
FF
F
M
R
HR

W-UR





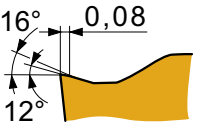
CCMT 09T308W-UR



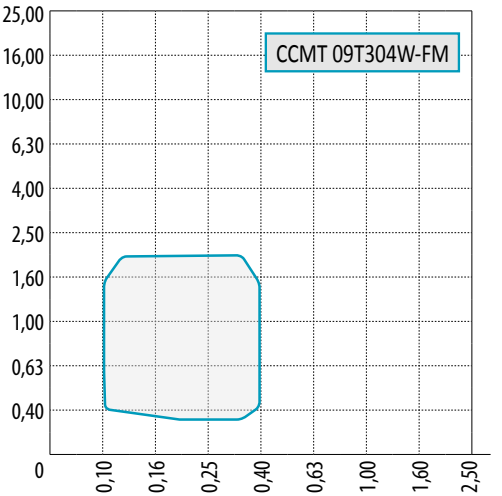
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	◪
	N3	◪
	N4	◪
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

CCGT

W-FM



CCMT 09T304W-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	

CCGT **DCMX**

SIMPLY RELIABLE

As a professional you can judge the quality of work by just looking at the chip. Our chip is a clean and uncomplicated shape that in itself tells a story. It is a clear and consistent signal and that's why we use it as a symbol for being **Simply Reliable**.

ARGENTINA
T: 54 (11) 6777-6777
F: 54 (11) 4441-4467
info.ar@dormerpramet.com

AUSTRIA
T: +31 10 2080 240
info.at@dormerpramet.com

BELGIUM & LUXEMBOURG
T: +32 3 440 59 01
info.be@dormerpramet.com

BRAZIL
T: +55 11 5660 3000
F: +55 11 5667 5883
info.br@dormerpramet.com

CANADA
T: (888) 336 7637
En Français: (888) 368 8457
F: (905) 542 7000
cs.canada@dormerpramet.com

CHINA
T: +86 21 2416 0508
info.cn@dormerpramet.com

CROATIA
T: +385 98 407 489
info.hr@dormerpramet.com

CZECH REPUBLIC
T: +420 583 381 111
F: +420 583 215 401
info.cz@dormerpramet.com

DENMARK
T: 808 82106
F: +46 35 16 52 90
info.se@dormerpramet.com

FINLAND
T: 0205 44 7003
F: 0205 44 7004
info.fi@dormerpramet.com

FRANCE
T: +33 (0)2 47 62 57 01
F: +33 (0)2 47 62 52 00
info.fr@dormerpramet.com

GERMANY
T: +49 9131 933 08 70
F: +49 9131 933 08 742
info.de@dormerpramet.com

HUNGARY
T: +36-96 / 522-846
F: +36-96 / 522-847
info.hu@dormerpramet.com

INDIA
T: +91 11 4601 5686
info.in@dormerpramet.com

ITALY
T: +39 02 38 04 51
F: +39 02 38 04 52 43
info.it@dormerpramet.com

KAZAKHSTAN
T: +7 771 305 11 45
info.kz@dormerpramet.com

MEXICO
T: +52 (555) 7293981
F: +52 (555) 7293981
cs.mexico@dormerpramet.com

NETHERLANDS
T: +31 10 2080 240
info.nl@dormerpramet.com

NORWAY
T: 800 10 113
F: +46 35 16 52 90
info.se@dormerpramet.com

POLAND
T: +48 32 78-15-890
F: +48 32 78-60-406
info.pl@dormerpramet.com

PORTUGAL
T: +351 21 424 54 21
F: +351 21 424 54 25
info.pt@dormerpramet.com

ROMANIA
T: +4(0)730 015 885
info.ro@dormerpramet.com

RUSSIA
T: +7 (495) 775 10 28
Ф: +7 (499) 763 38 90
info.ru@dormerpramet.com

SLOVAKIA
T: +421 (41) 764 54 60
F: +421 (41) 763 74 49
info.sk@dormerpramet.com

SLOVENIA
T: +385 98 407 489
info.si@dormerpramet.com

SPAIN
T: +34 935717722
F: +34 935717765
info.es@dormerpramet.com

SWEDEN
responsible for **Iceland**
T: +46 35 16 52 96
F: +46 35 16 52 90
info.se@dormerpramet.com

SWITZERLAND
T: +31 10 2080 240
info.ch@dormerpramet.com

TURKEY
T: +90 533 212 45 47
info.tr@dormerpramet.com

UKRAINE
T: +38 056 736 30 21
F: +38 067 220 97 48
info.ua@dormerpramet.com

UNITED KINGDOM
responsible for **Ireland**
T: 0870 850 4466
F: 0870 850 8866
info.uk@dormerpramet.com

UNITED STATES OF AMERICA
T: (800) 877-3745
F: (847) 783-5760
cs@dormerpramet.com

OTHER COUNTRIES

South America
T: +55 11 5660 3000
F: +55 11 5667 5883
info.br@dormerpramet.com

Central and Eastern Europe
T: +420 583 381 526
F: +420 583 381 401
info.rcee@dormerpramet.com

Rest of the World
Dormer Pramet International UK
T: +44 1246 571338
F: +44 1246 571339
info.int@dormerpramet.com

Dormer Pramet International CZ
T: +420 583 381 520
F: +420 583 215 401
info.int.cz@dormerpramet.com