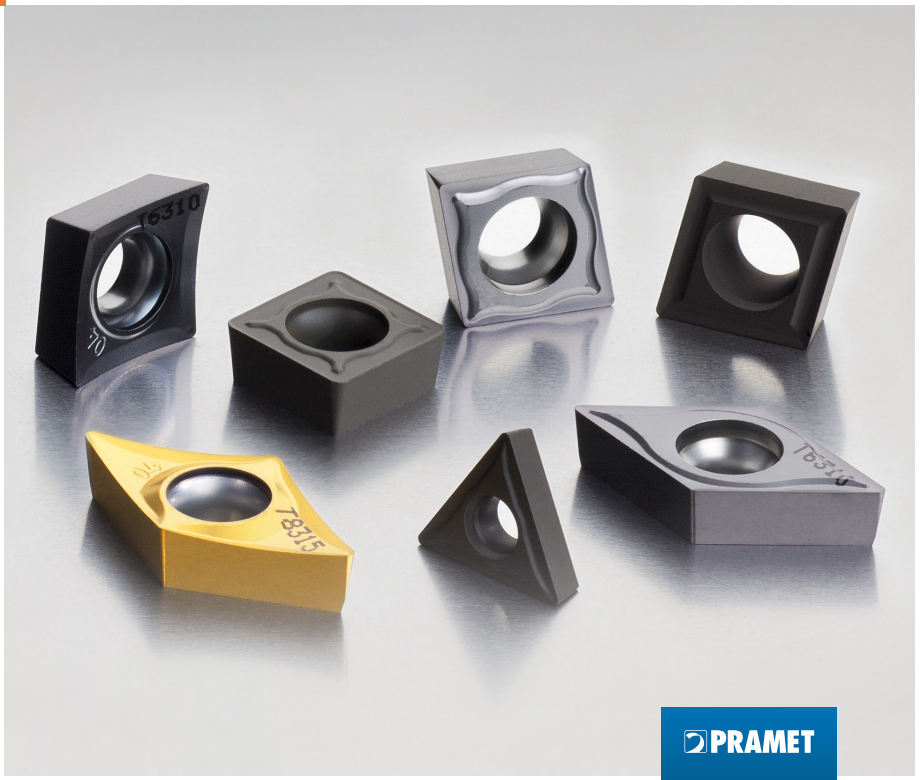
DORMER PRAMET

TURNING
CHIPBREAKER GUIDE



PRAMET

ISO Material 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 (.0098< C < .0217); 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 .0217 < 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

Cutting conditions

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

Material recommendations

■	Main application
◪	Secondary application
-	Not recommended

Application type

Fine finish

Roughing

Fine

Heavy roughing

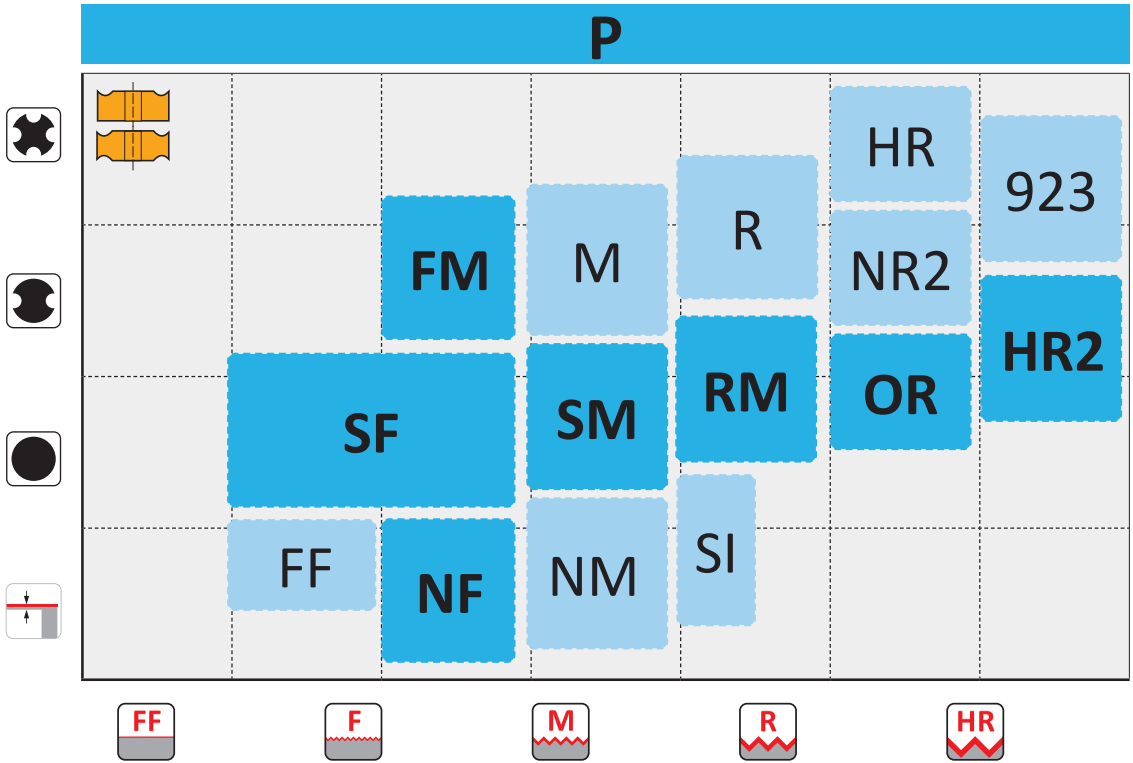
Medium

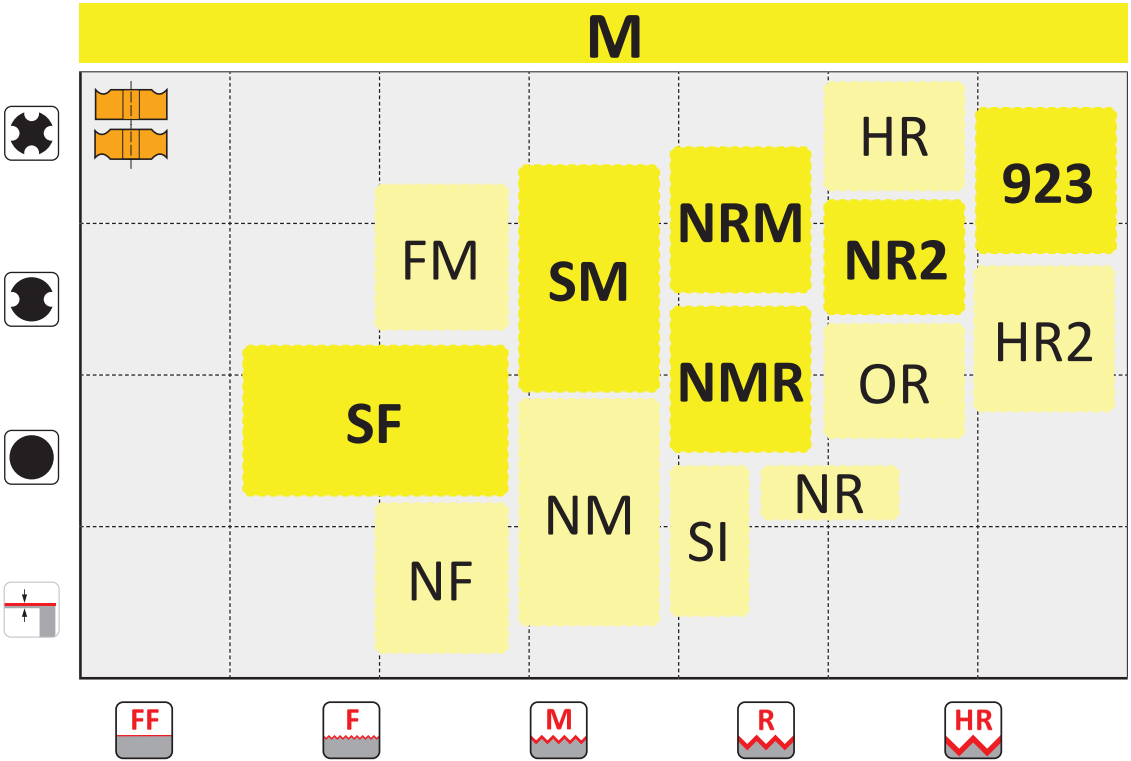
Cutting parameters by application type

		
	.0020 –.0079 inch/rev	.0020 – .0787 inch
	.0079 – .0157 inch/rev	.0787 – .1575 inch
	.0157 – .0394 inch/rev	.1575 – .3937 inch
	> .0394 inch/rev	> .3937 inch

NEGATIVE INSERTS

P, D and M - CLAMPING STYLE


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


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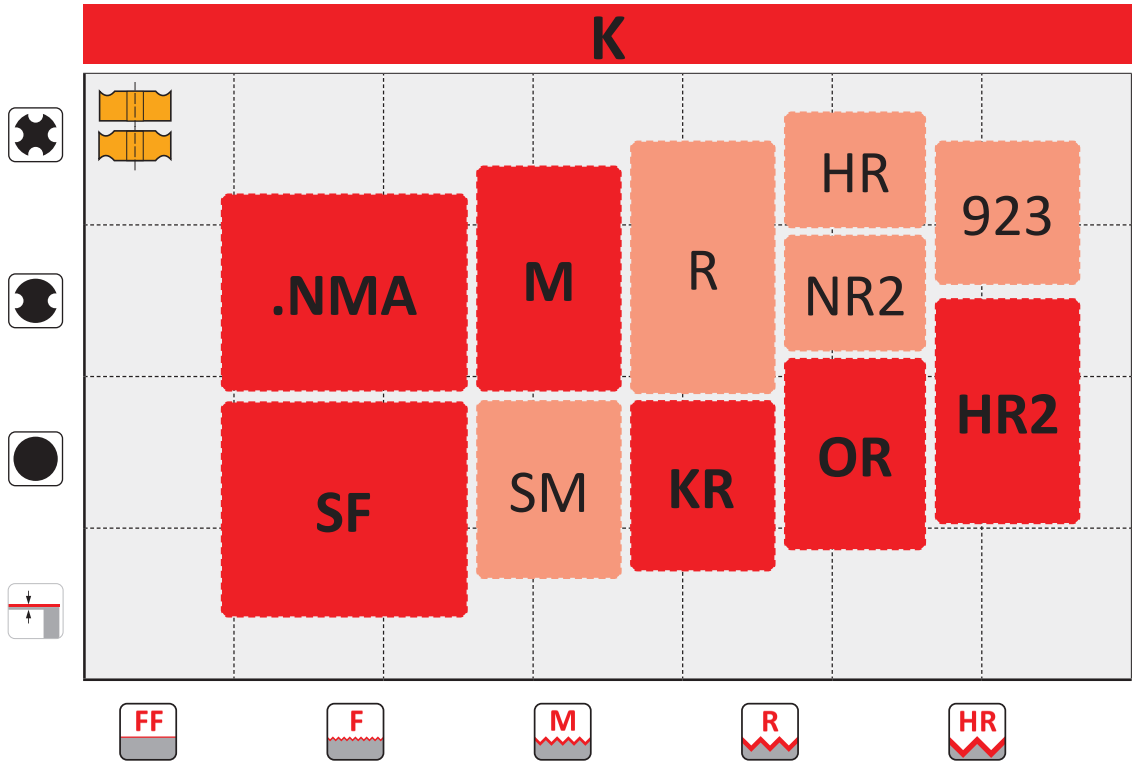
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.NMA
M
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923
NR2
SF
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OR
HR2
FF
F
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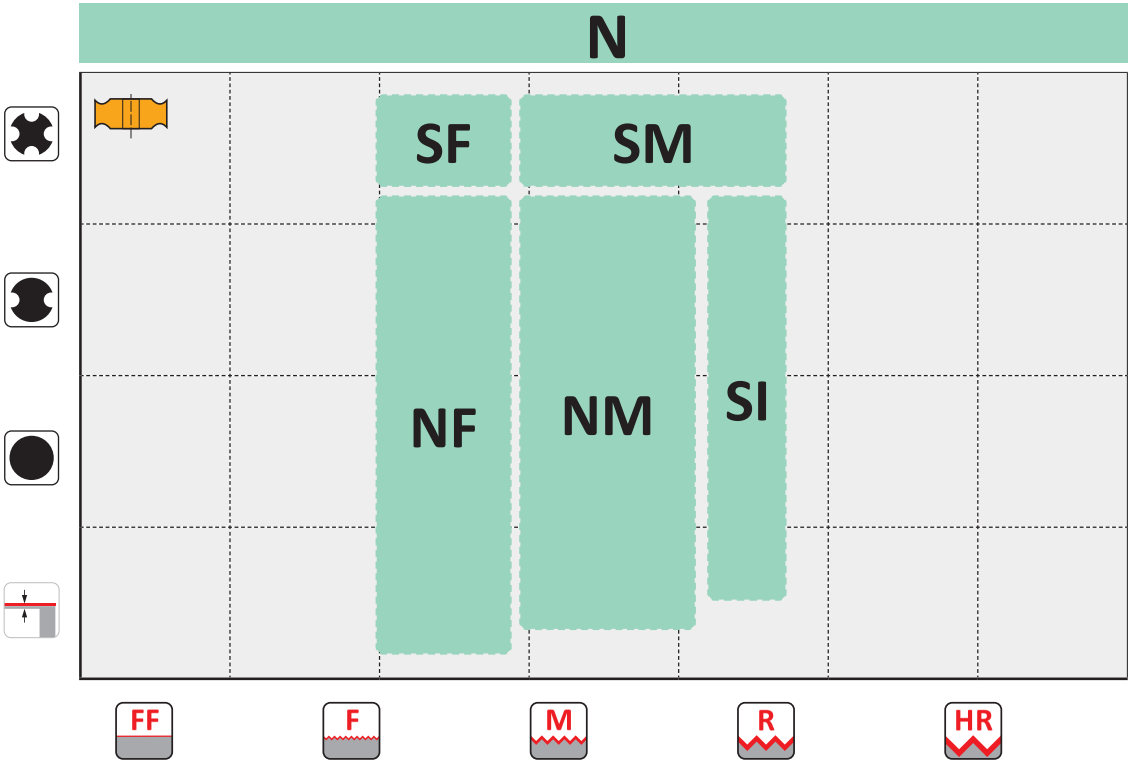
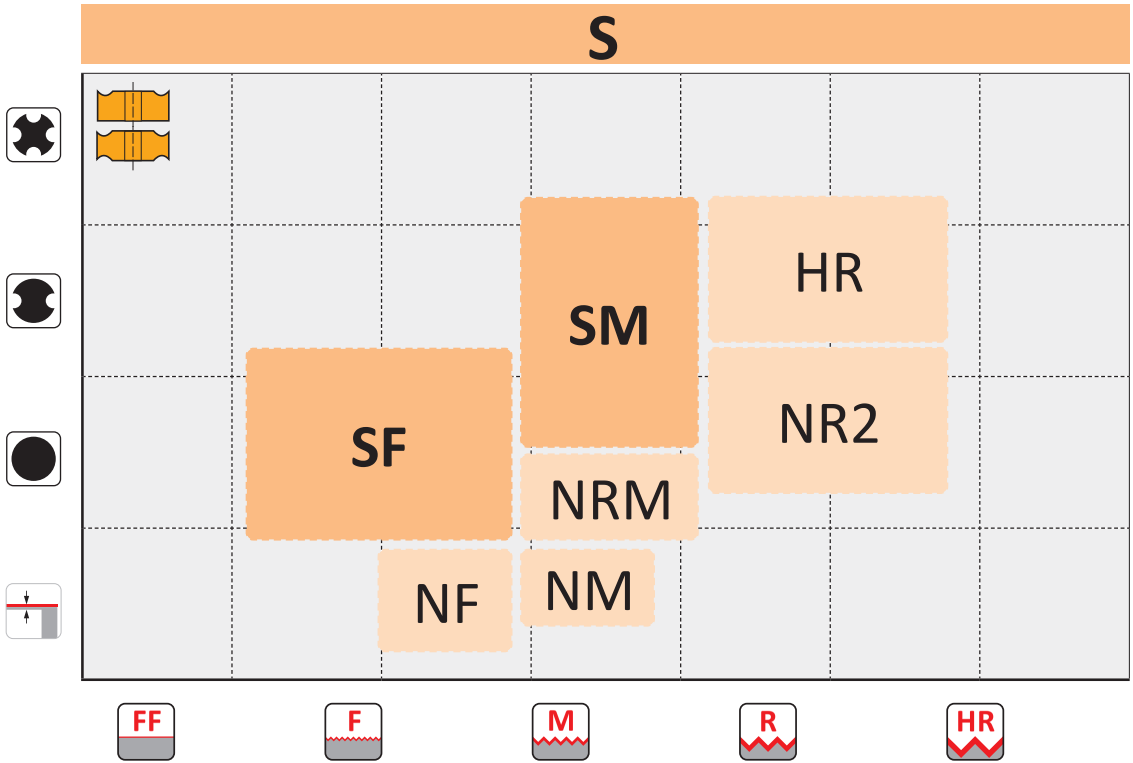
R
HR


N
SF
SM
NF
NM
SI
FF
F
M
R
HR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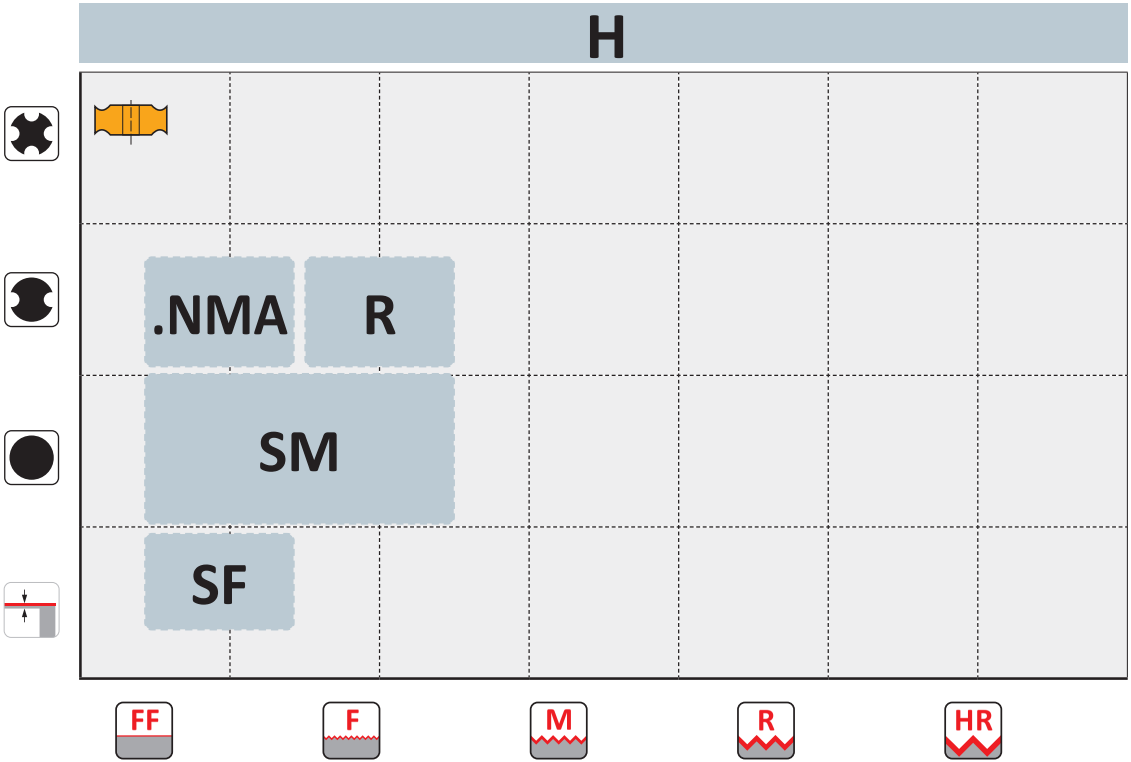
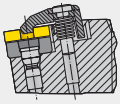
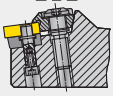
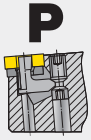
SM
HR
SF
NR2
NRM
NF
NM
FF
F
M
R
HR

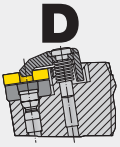

H
.NMA
R
SM
SF
FF
F
M
R
HR

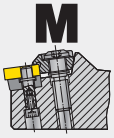




Chip breaker	≥ f_{min} (inch/rev)	S	C	W	T	D	V	📖
FF	0.0024		✓	✓	✓	✓	✓	11
SF	0.0031	✓	✓	✓	✓	✓	✓	12
...A	0.0039	✓	✓	✓	✓	✓		13
NF	0.0039	✓	✓	✓	✓	✓	✓	14
FM	0.0059	✓	✓	✓	✓	✓	✓	15
NM	0.0059		✓	✓	✓	✓	✓	16
SM	0.0059	✓	✓	✓	✓	✓	✓	17
M	0.0067	✓	✓	✓	✓	✓	✓	18
NMR	0.0071	✓	✓	✓	✓	✓	✓	19
KR	0.0079	✓	✓	✓	✓			20
L/R-SI	0.0079		✓	✓	✓	✓		21
NRM	0.0091	✓	✓	✓		✓		22
R	0.0118	✓	✓	✓	✓	✓		23
RM	0.0118	✓	✓	✓	✓	✓		24

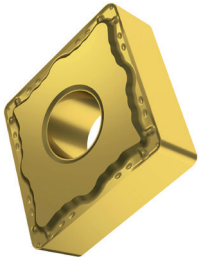


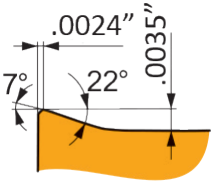




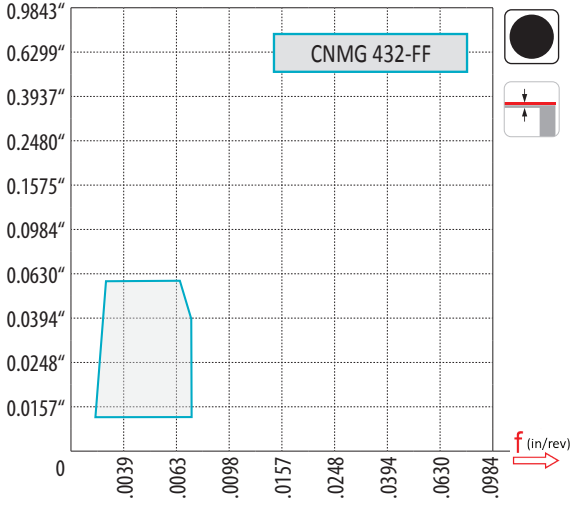
Chip breaker	≥ f_{min} (Inch/rev)	S	C	W	T	D	V	📖
NR	0.0098	✓	✓	✓	✓	✓		25
NR2	0.0098	✓	✓	✓	✓	✓		26
OR	0.0098	✓	✓	✓	✓	✓		27
DR	0.0118	✓	✓	✓	✓			28
NRM	0.0126	✓	✓					29
OR1	0.0146	✓	✓					30
923	0.0177	✓	✓					31
HR	0.0197	✓	✓		✓			32
HR2	0.0197	✓	✓					33
SR	0.0276	✓						34
W-F	0.0059		✓	✓				38
W-NM	0.0059		✓	✓		✓		39
W-M	0.0067		✓	✓				40
W-MR	0.0079		✓	✓		✓		41

FF





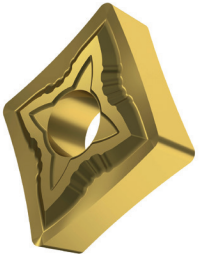
CNMG 432-FF

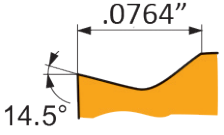


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	◪
	N3	◪
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	◪
	H4	

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

SF





CNMG 432-SF

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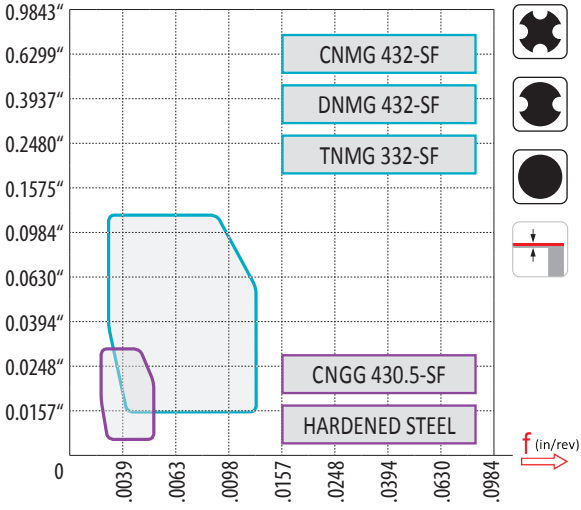
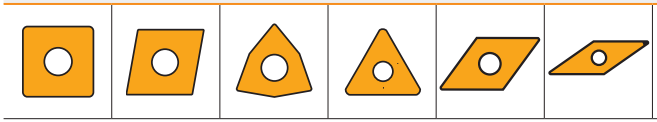
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	
	H3	■
	H4	■



SNMG	CNMG CNGG	WNMG	TNMG	DNMG	VNMG



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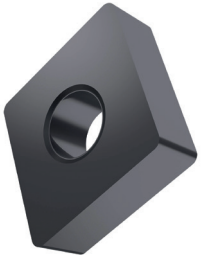
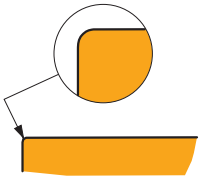
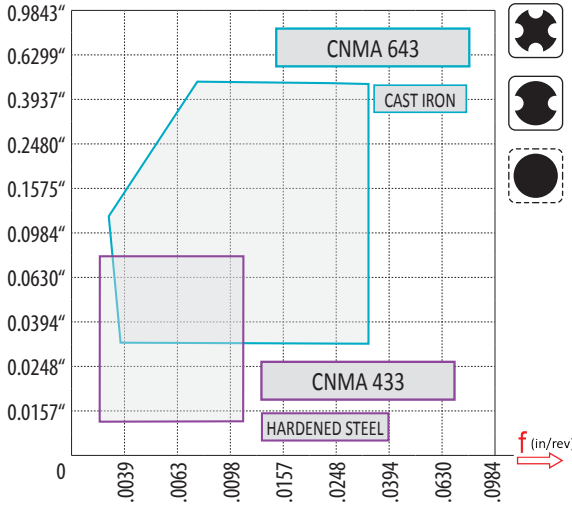




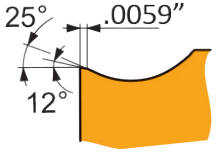
CNMA 643



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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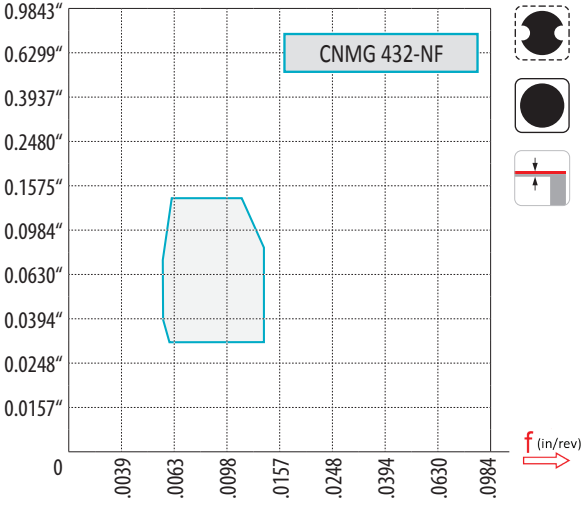
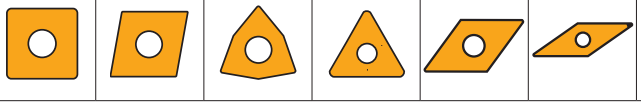


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	■
	H2	
	H3	◪
	H4	

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



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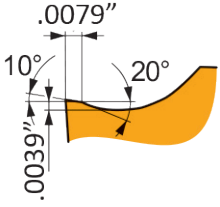

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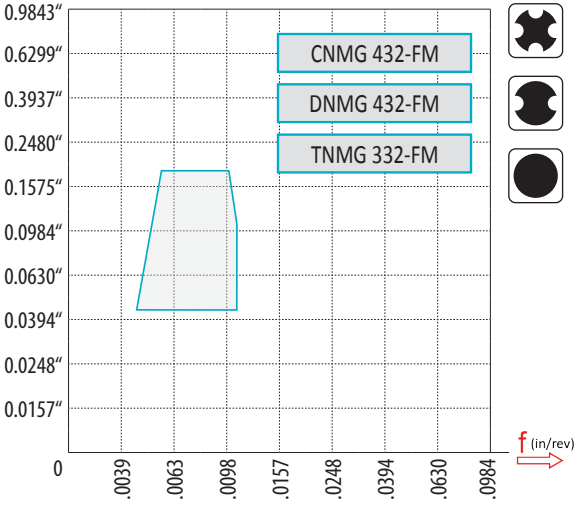
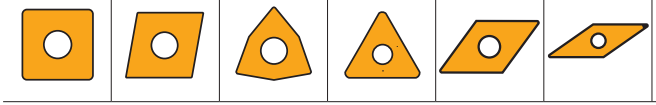
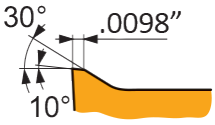


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	■
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	■
	H2	◪
	H3	■
	H4	◪

SNMG CNMG WNMG TNMG DNMG VNMG

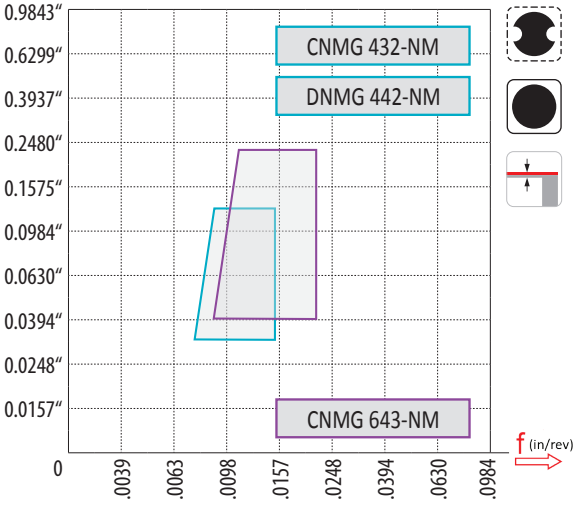


NM

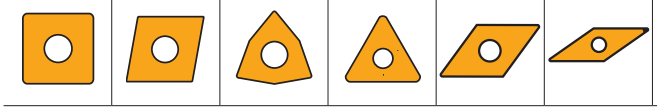


CNMG 432-NM

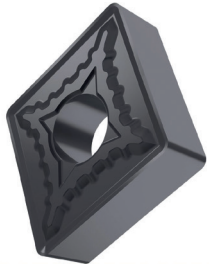
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	◪
	K4	
N	N1	◪
	N2	■
	N3	■
	N4	◪
S	S1	■
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

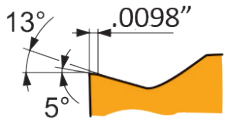


SNMG **CNMG** **WNMG** **TNMG** **DNMG** **VNMG**

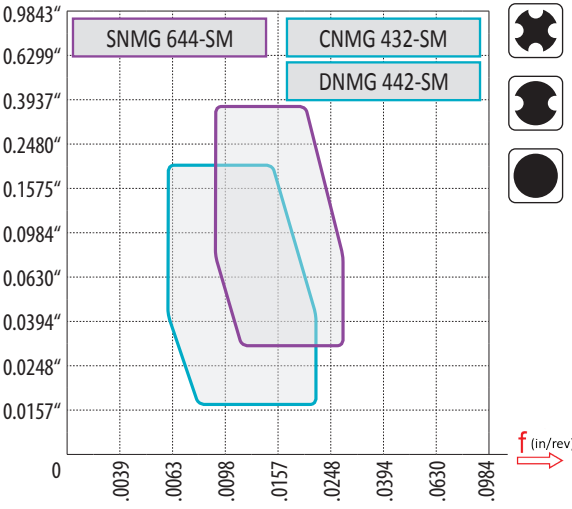


SM





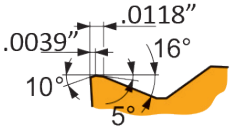
CNMG 432-SM



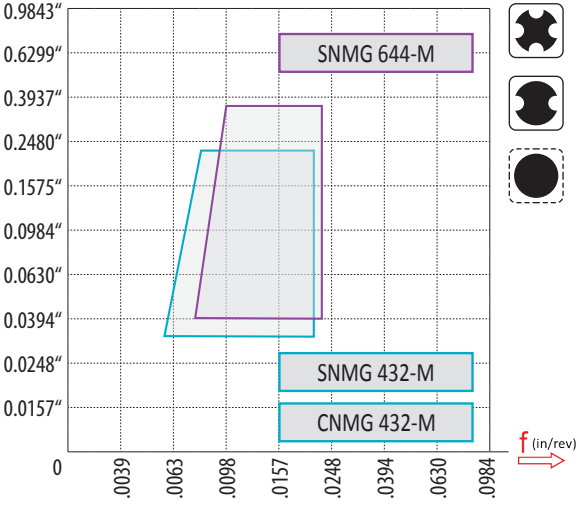
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	■
	H3	■
	H4	■

SNMG	CNMG	WNMG	TNMG	DNMG	VNMG
					

M

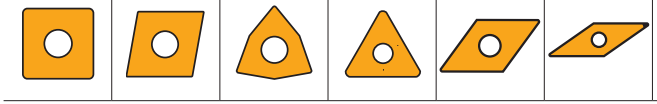


CNMG 432-M

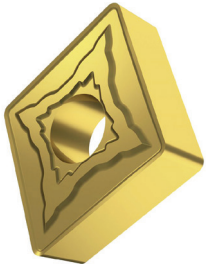


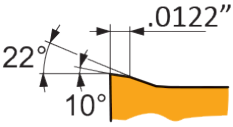
P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	
	M2	◪
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	■
	H4	◪

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

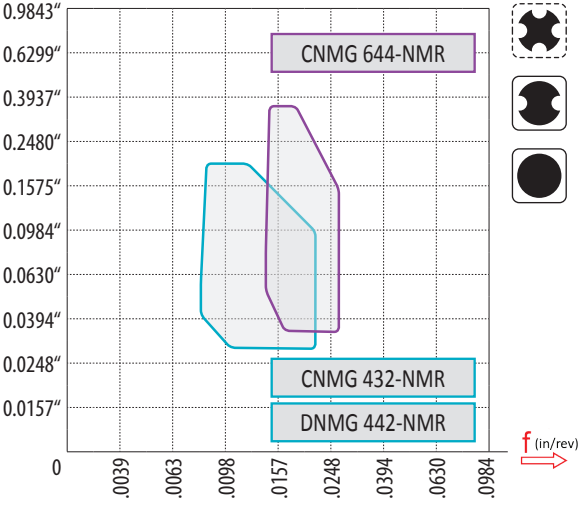


NMR



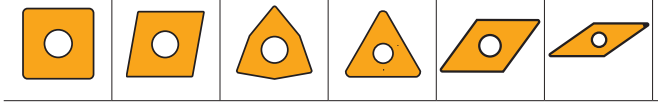


CNMG 432-NMR

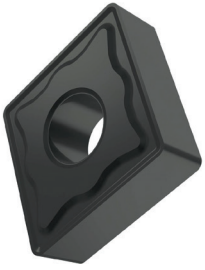


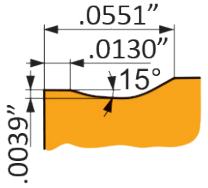
P	P1	■
	P2	■
	P3	■
	P4	◪
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	■
	K4	
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

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

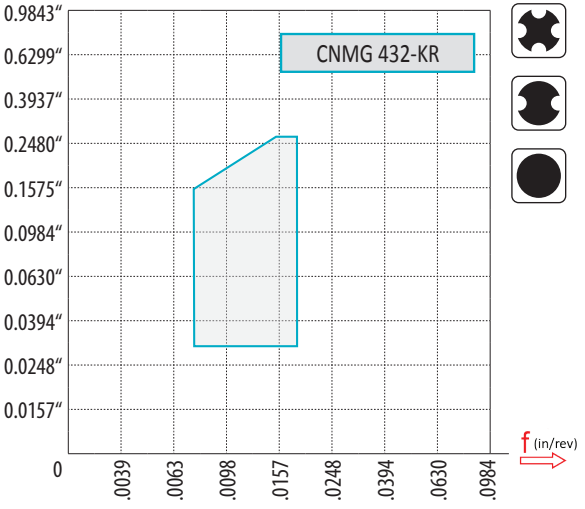


KR



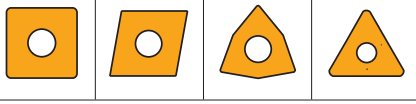


CNMG 432-KR

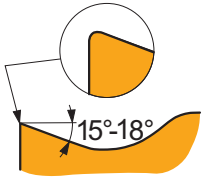


P	P1	
	P2	
	P3	
	P4	◪
M	M1	
	M2	
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	◪
	H2	■
	H3	◪
	H4	

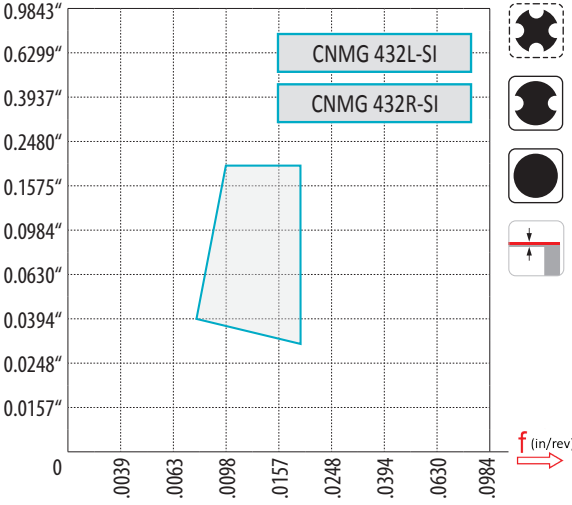
SNMG **CNMG** **WNMG** **TNMG**



L/R-SI



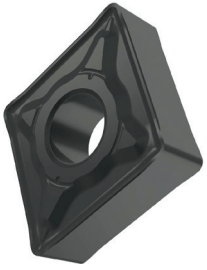
CNMG 432R-SI

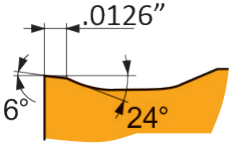


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	
	K4	
N	N1	◪
	N2	■
	N3	◪
	N4	■
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

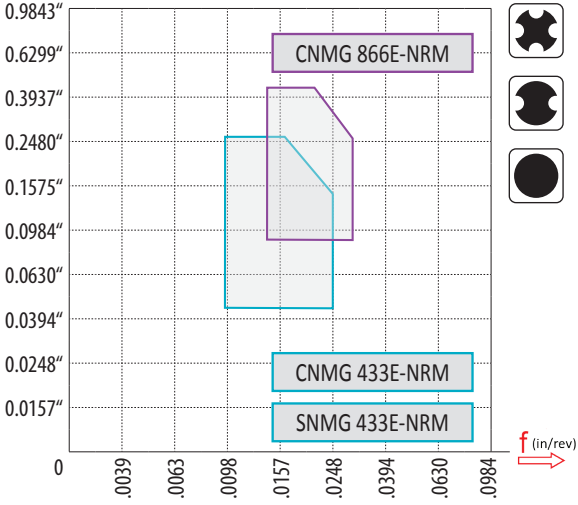
CNMG	WNMG	TNMG	DNMG			
						

NRM



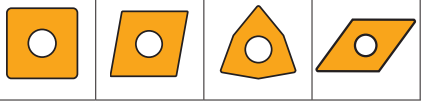


CNMG 433E-NRM

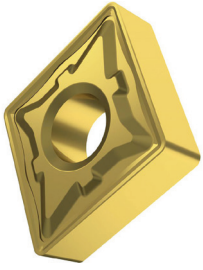


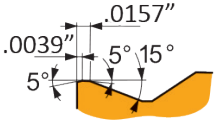
P	P1	■
	P2	■
	P3	■
	P4	◪
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	
	K2	
	K3	■
	K4	
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

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

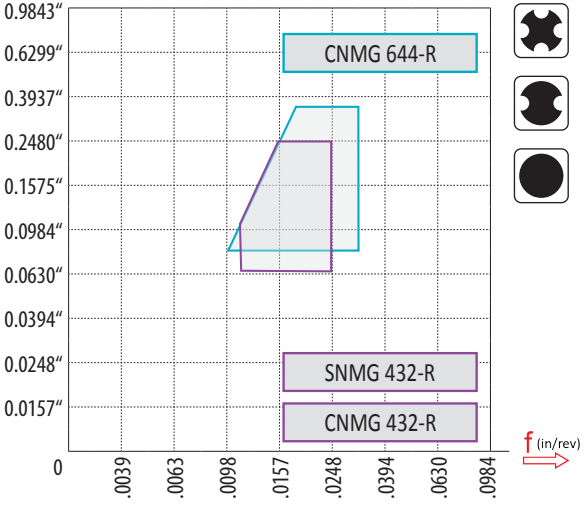


R





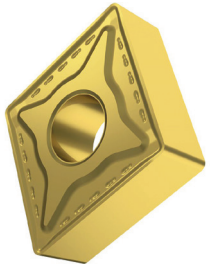
CNMG 644-R

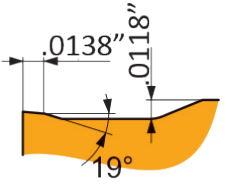


P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	■
	H4	◪

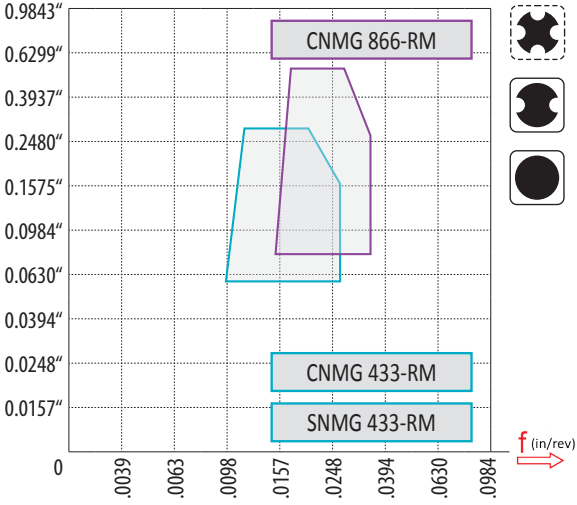
SNMG	CNMG	WNMG	TNMG	DNMG		
						

RM



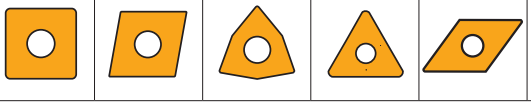


CNMG 432-RM

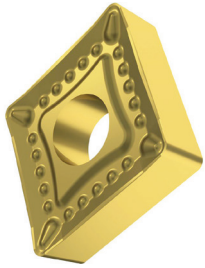


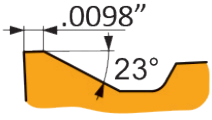
P	P1
	P2
	P3
	P4
M	M1
	M2
	M3
	M4
K	K1
	K2
	K3
	K4
N	N1
	N2
	N3
	N4
S	S1
	S2
	S3
	S4
H	H1
	H2
	H3
	H4

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

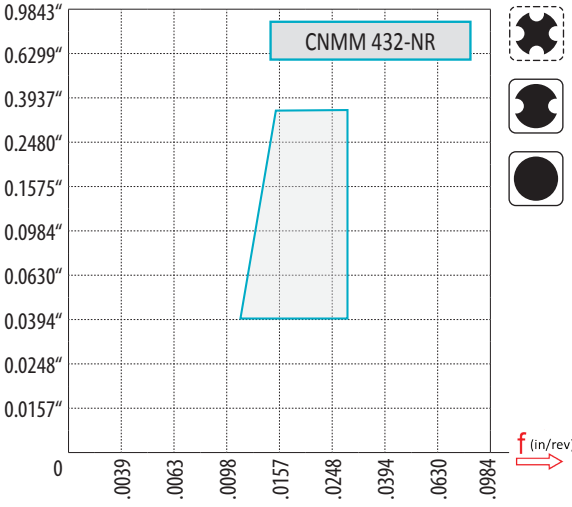


NR



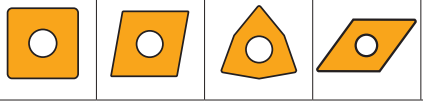


CNMM 432-NR

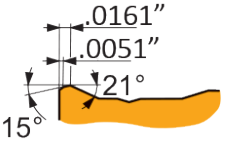


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

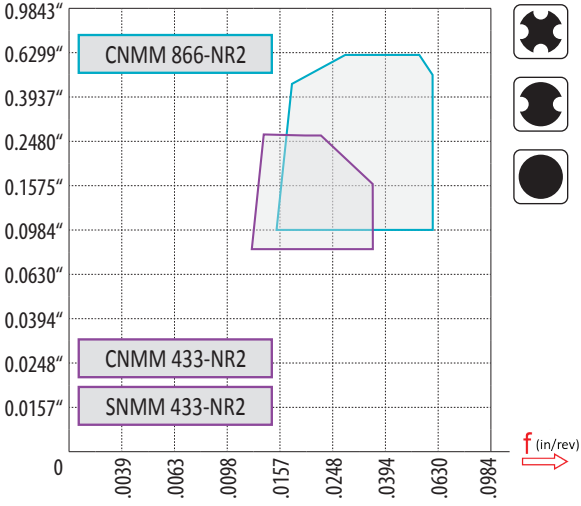
SNMM CNMM WNMM DNMM



NR2

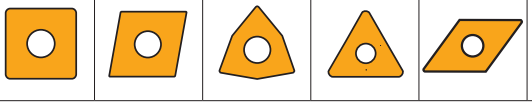


CNMM 866-NR2

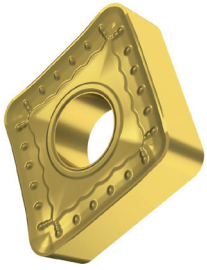


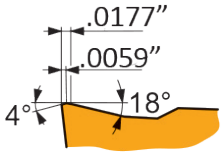
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

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

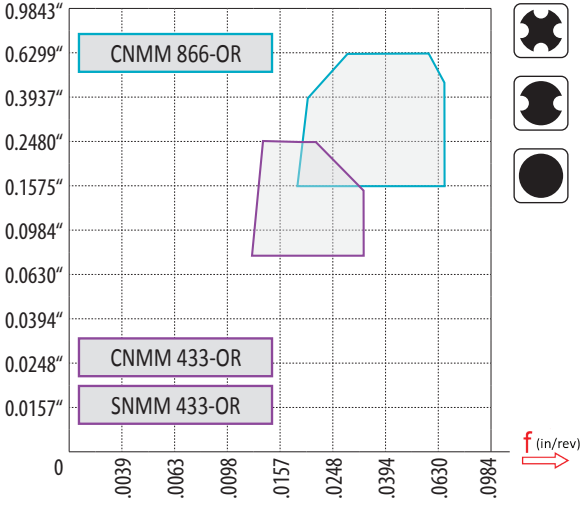


OR



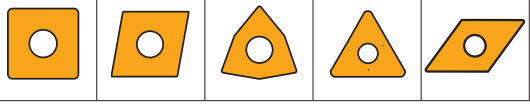


CNMM 866-OR

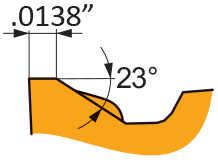


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	◪
	H2	
	H3	
	H4	

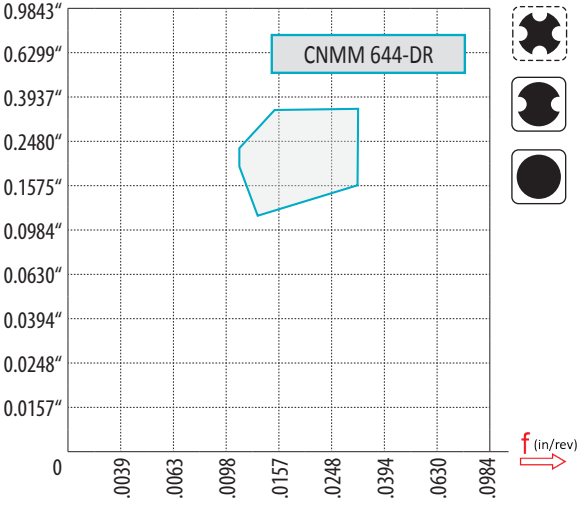
SNMM CNMM WNMM TNMM DNMM



DR

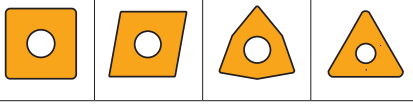


CNMM 644-DR

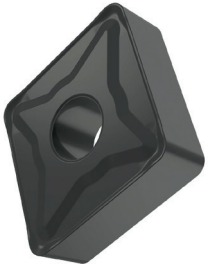


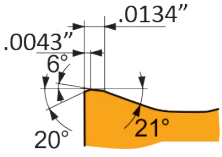
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

SNMM CNMM WNMM TNMM

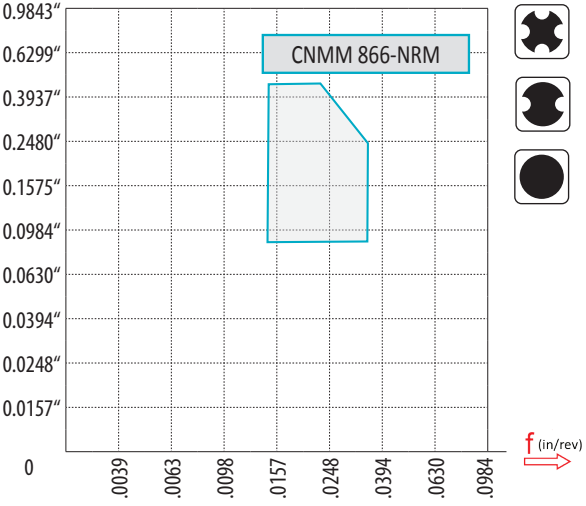


NRM





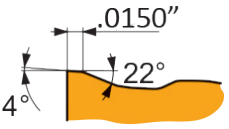
CNMM 866-NRM



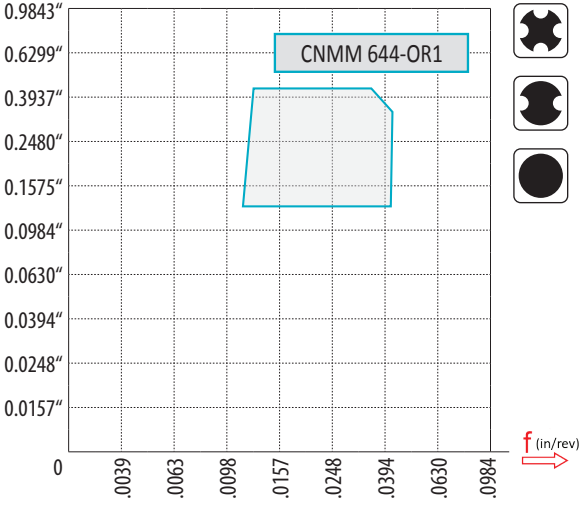
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	◪
	H2	
	H3	
	H4	

SNMM **CNMM**

OR1



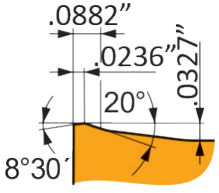
CNMM 644-OR1



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	

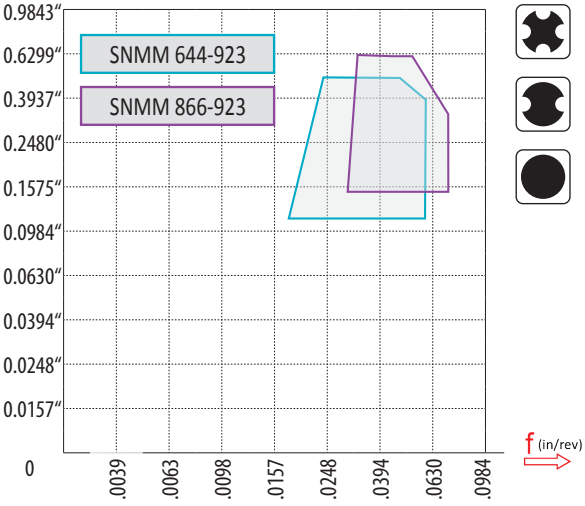
SNMM	CNMM					
						

923



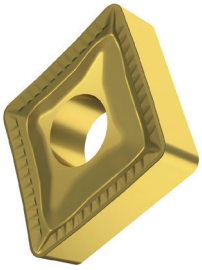
SNMM 866-923

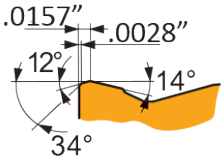
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	



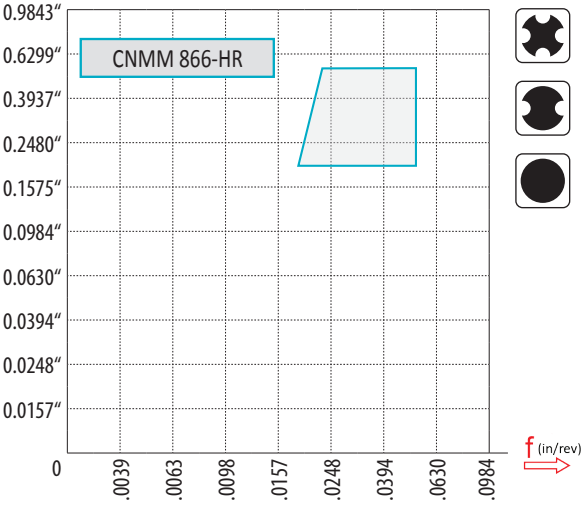
SNMM	CNMM					
						

HR





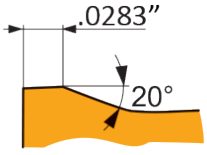
CNMM 866-HR



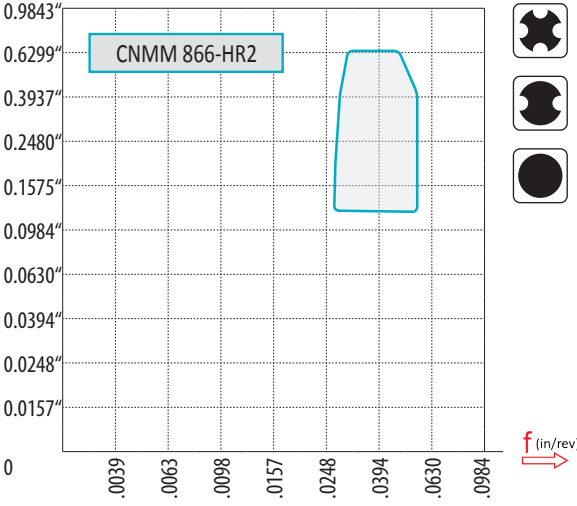
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

SNMM CNMM TNMM

HR2



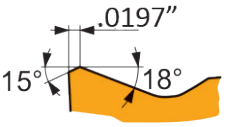
CNMM 866-HR2



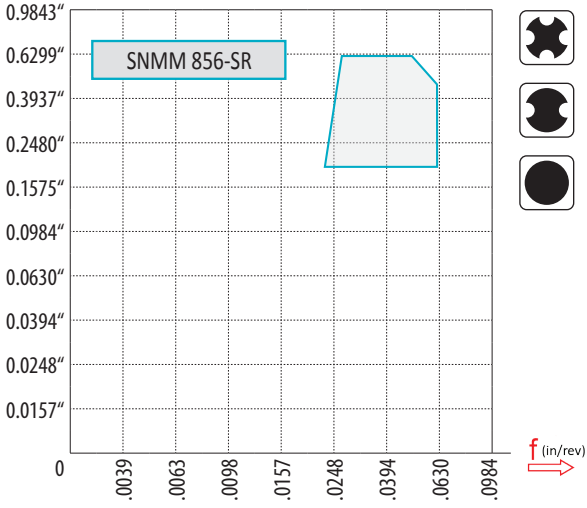
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

SNMM **CNMM**

SR



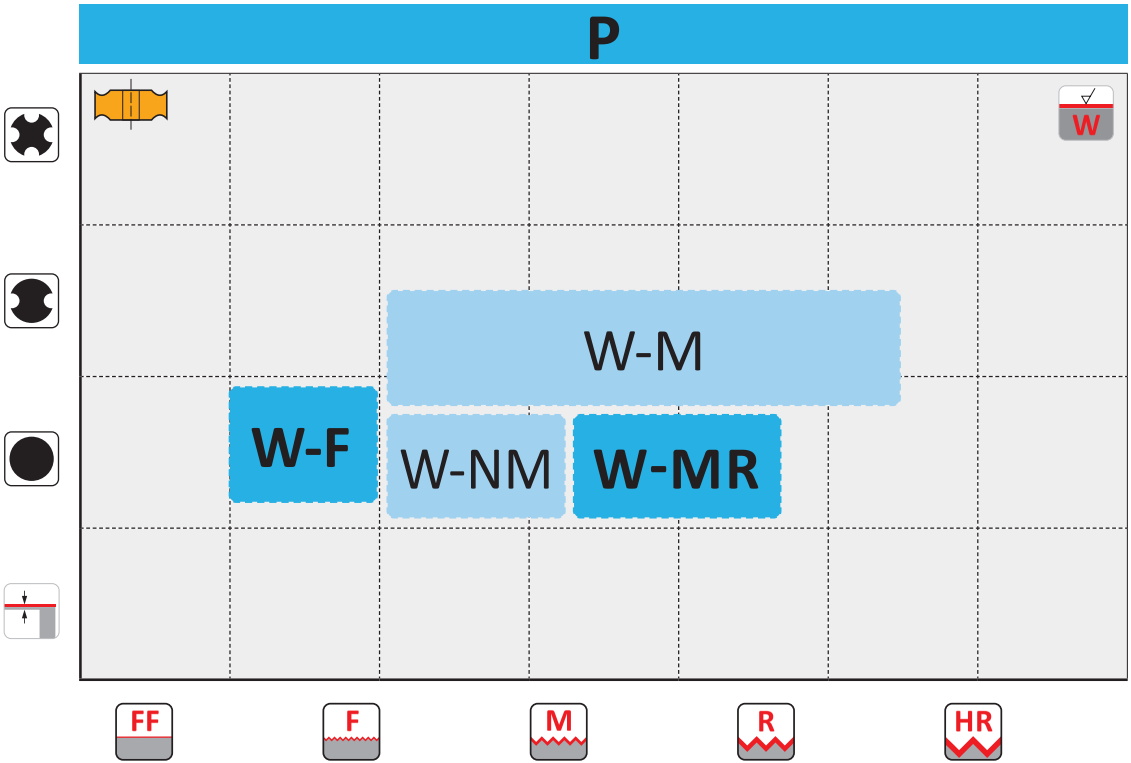
SNMM 856-SR

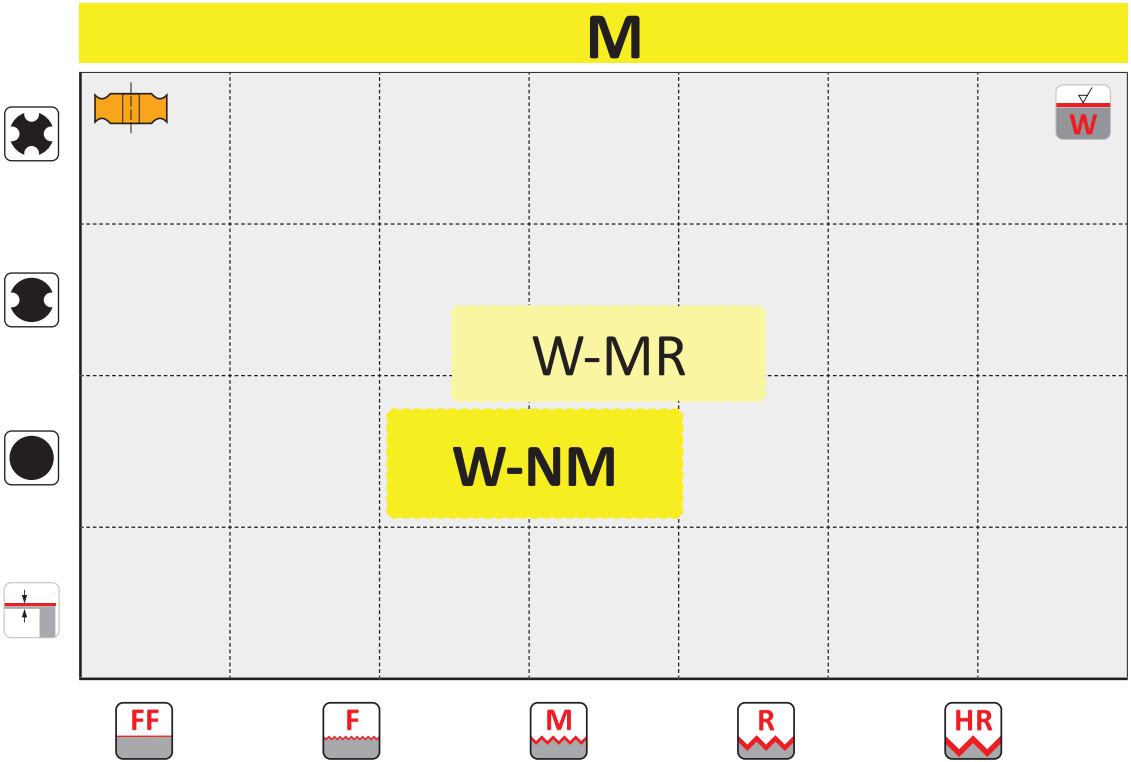


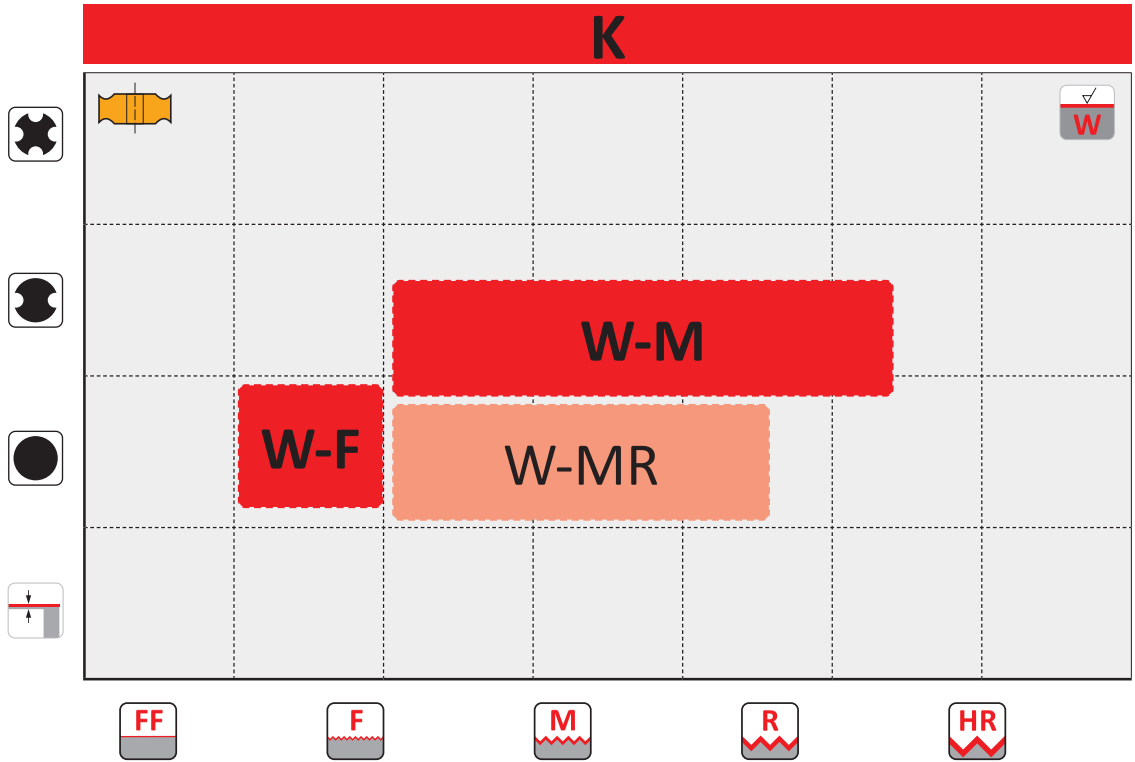
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

SNMM

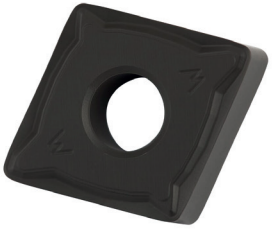
						

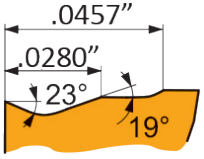

P
W
W-M
W-F
W-NM
W-MR
FF
F
M
R
HR


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

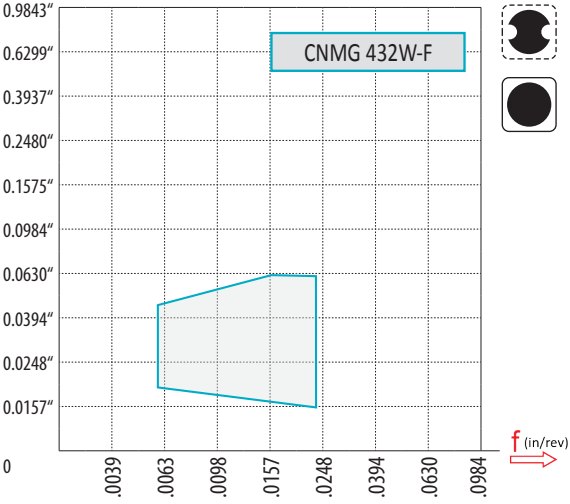

K
W
W-M
W-F
W-MR
FF
F
M
R
HR

W-F





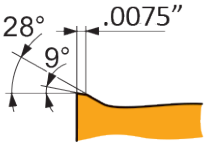
CNMG 432W-F



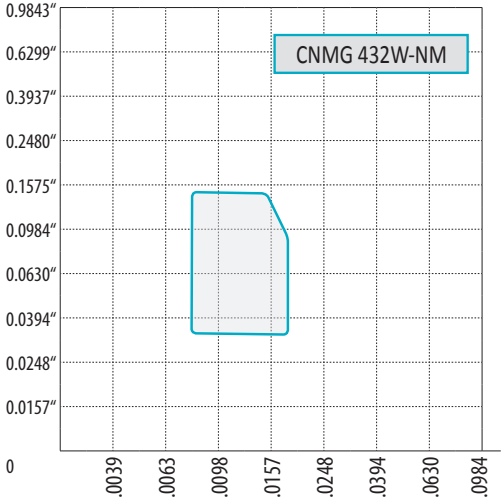
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	-
	M2	o
	M3	-
	M4	-
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	-
	N2	-
	N3	-
	N4	-
S	S1	-
	S2	-
	S3	-
	S4	-
H	H1	o
	H2	-
	H3	-
	H4	-

CNMG **WNMG**

W-NM



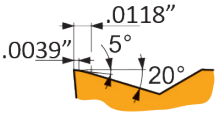
CNMG 432W-NM



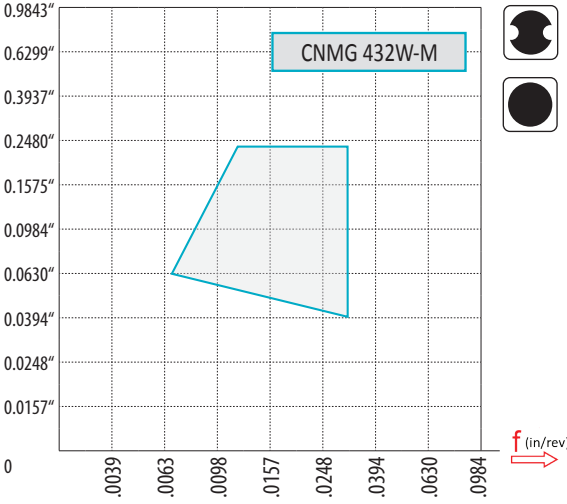
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	◪
	N2	◪
	N3	◪
	N4	◪
S	S1	◪
	S2	◪
	S3	◪
	S4	◪
H	H1	
	H2	
	H3	
	H4	

CNMG **WNMG** **DNMX**

W-M



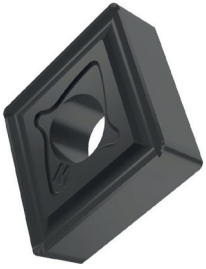
CNMG 432W-M

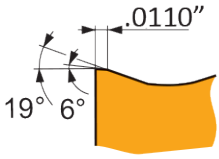


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	
	M2	
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

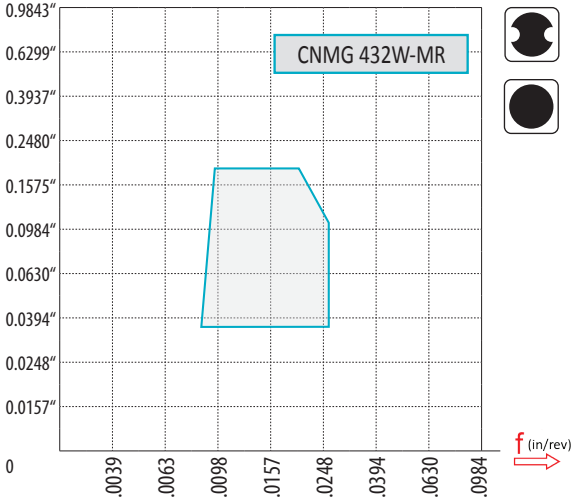
CNMG **WNMG**

W-MR





CNMG 432W-MR

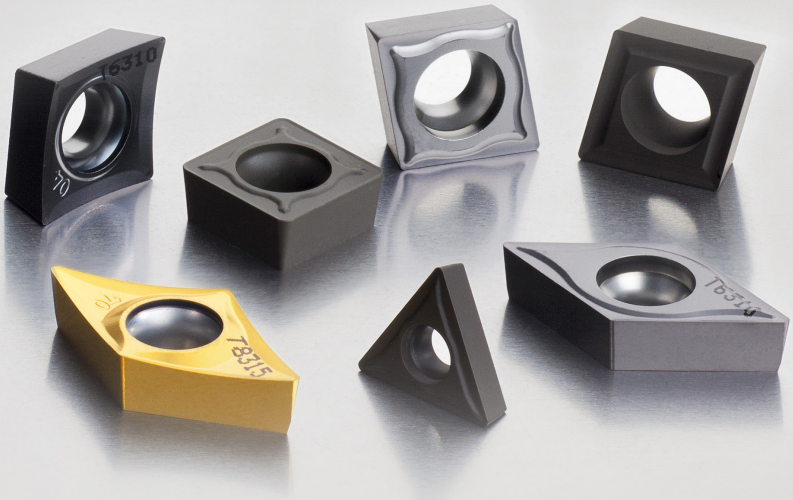


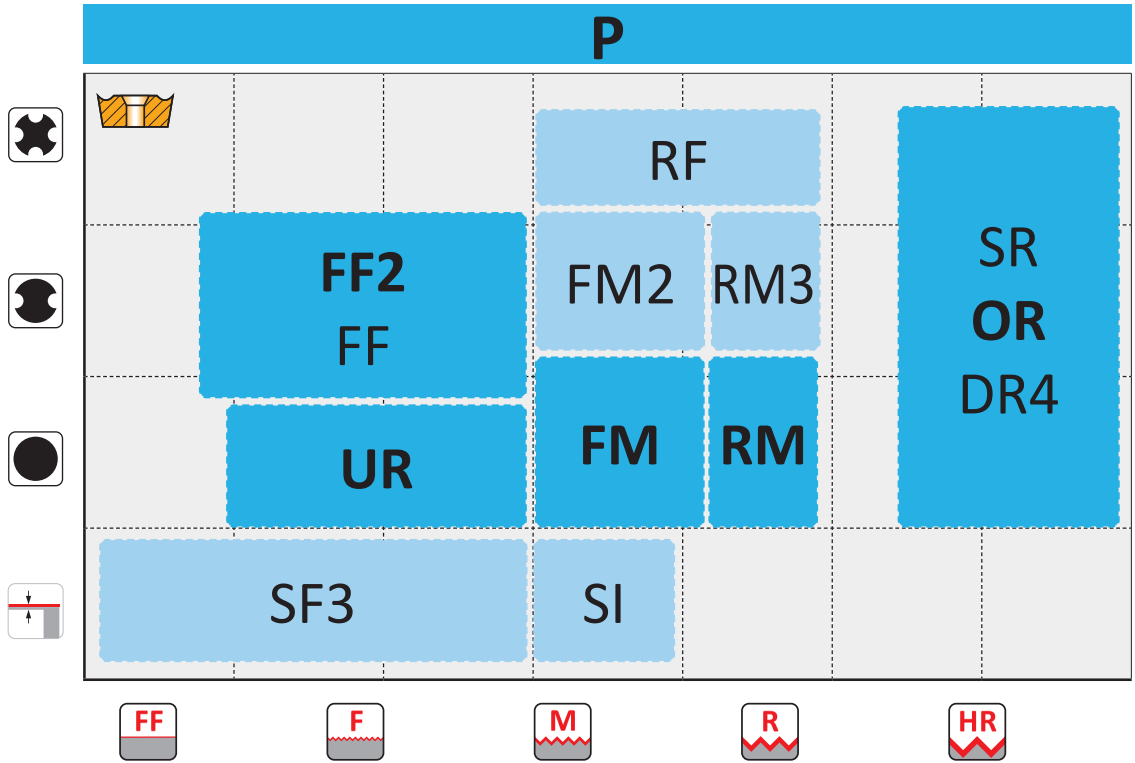
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

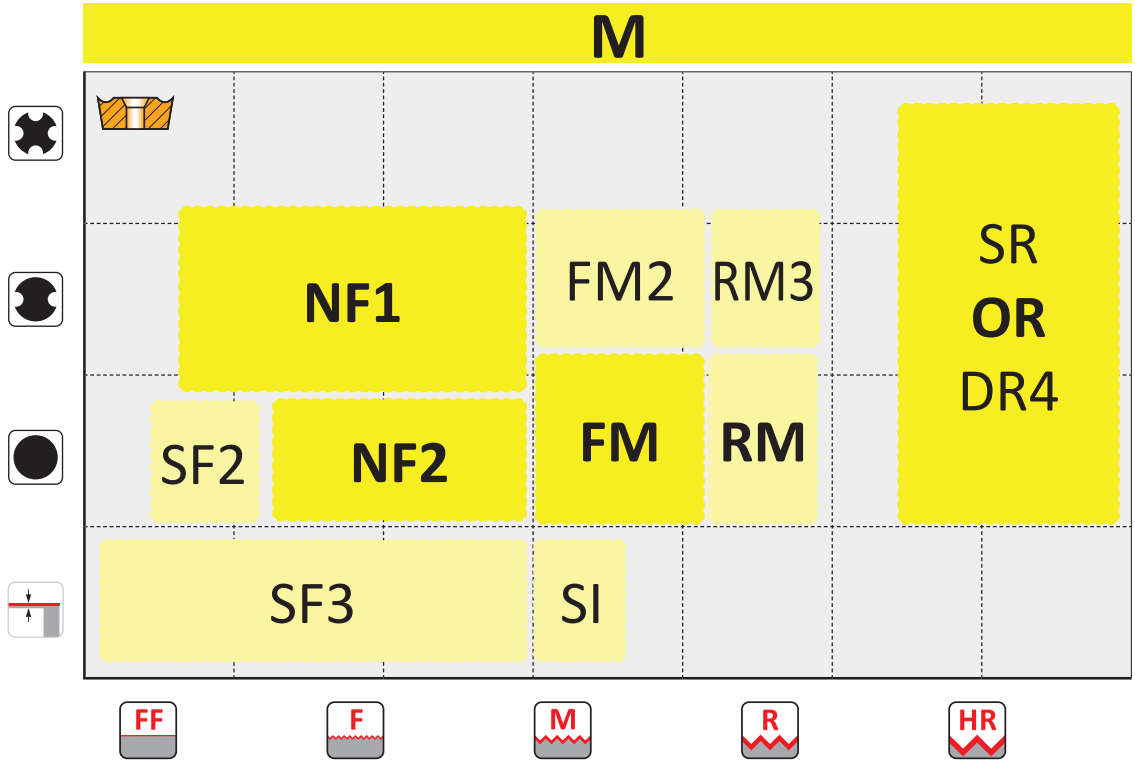
CNMG **WNMG** **DNMG**

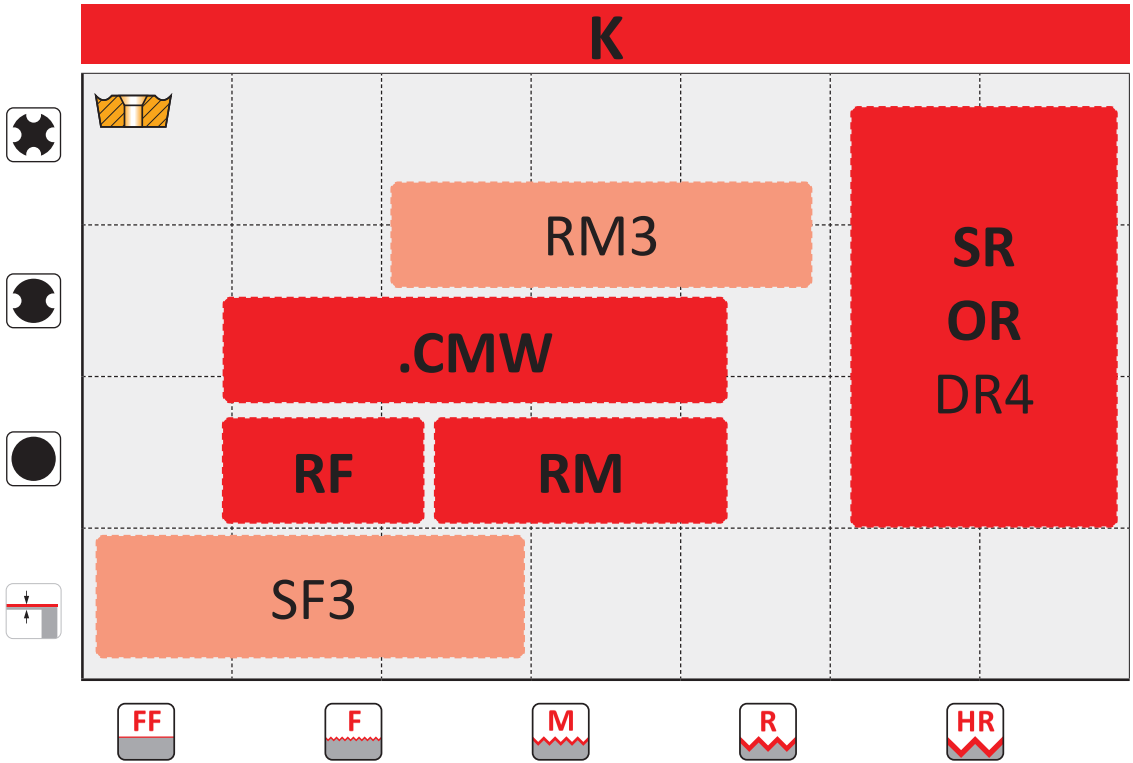
POSITIVE INSERTS

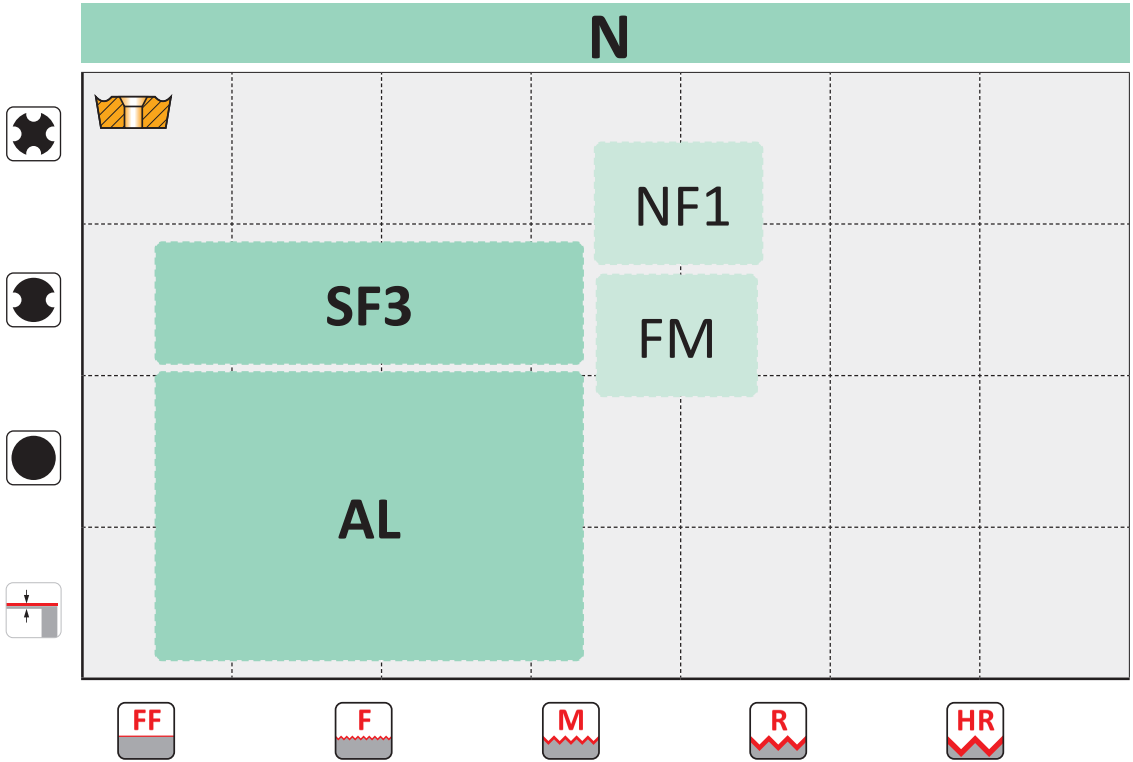
S - CLAMPING STYLE

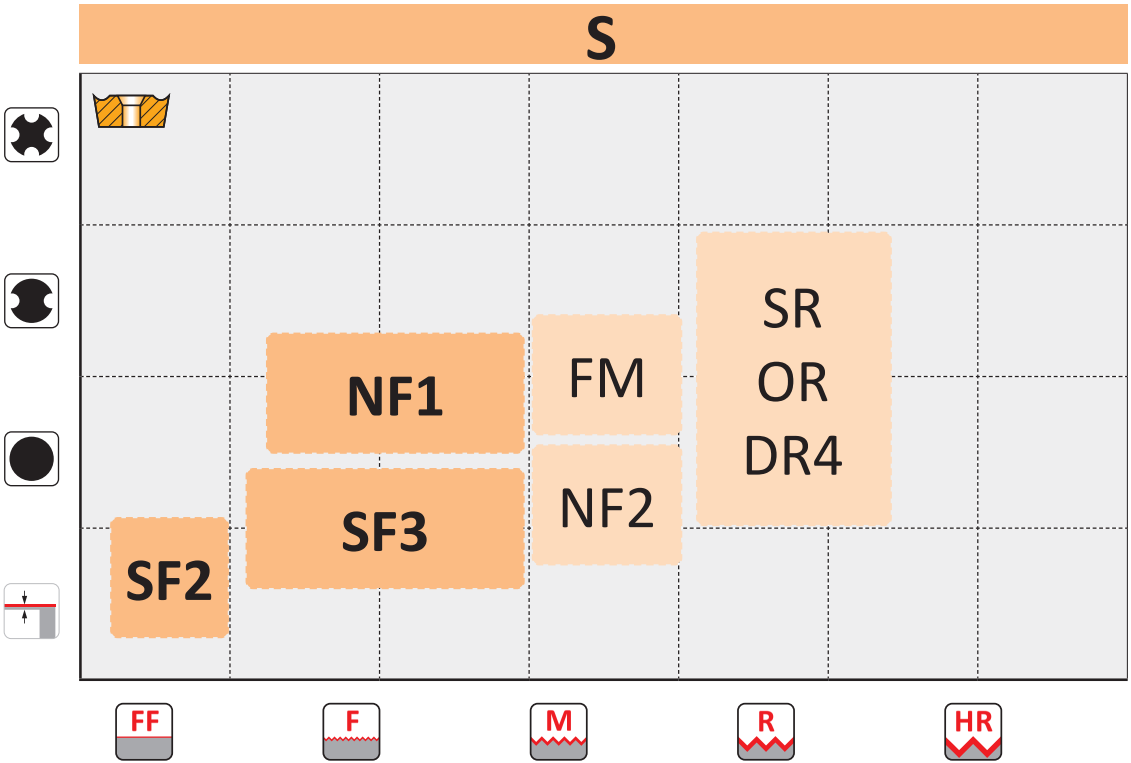


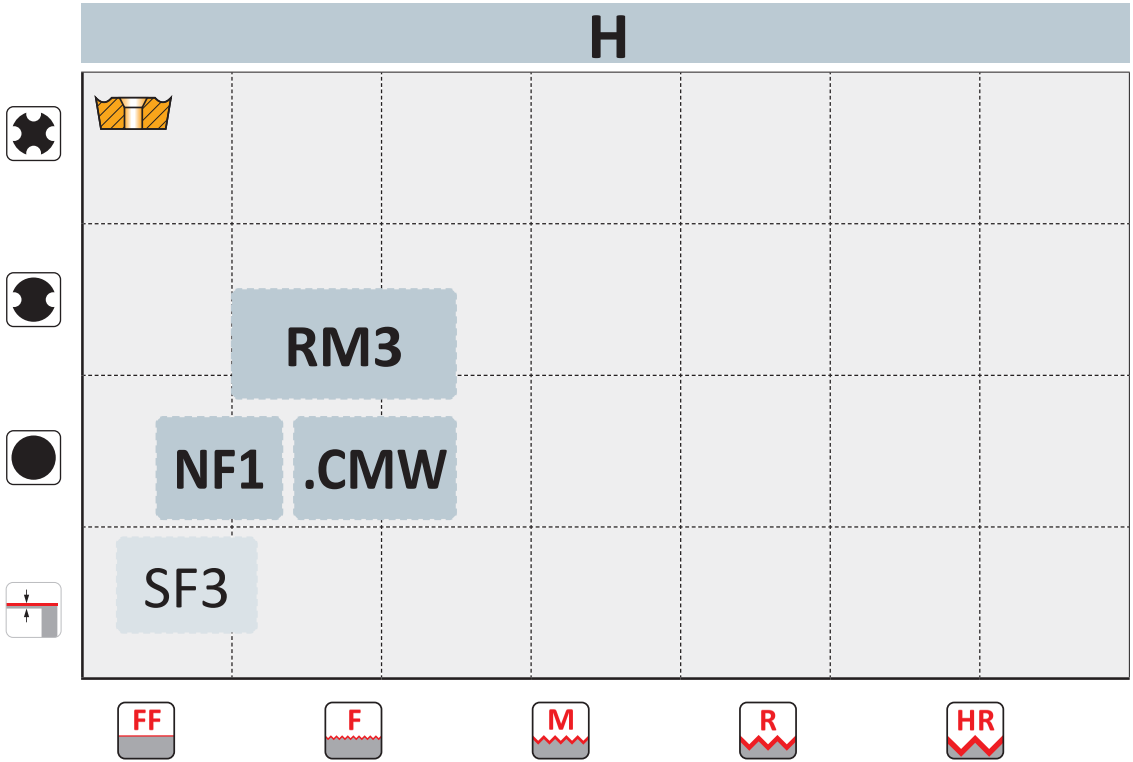

P
RF
FF2
FF
FM2
RM3
SR
OR
DR4
UR
FM
RM
SF3
SI
FF
F
M
R
HR


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

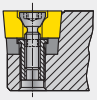

K
RM3
SR
OR
DR4
.CMW
RF
RM
SF3
FF
F
M
R
HR


N
NF1
SF3
FM
AL
FF
F
M
R
HR


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

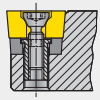

H
RM3
NF1
.CMW
SF3
FF
F
M
R
HR

S



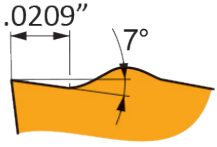
Chip breaker	≥ f_{min} (inch/rev)	R	S	C	W	E	T	D	V	
FF2	0.0008		✓	✓	✓		✓	✓	✓	51
SF2	0.0008					✓			✓	52
SF3	0.0008		✓	✓		✓	✓	✓	✓	53
FM2	0.0016		✓	✓		✓	✓	✓	✓	54
NF1	0.0016		✓	✓			✓	✓		55
AL	0.0020	✓	✓	✓	✓		✓	✓	✓	56
FF	0.0020			✓				✓		57
NF2	0.0020	✓	✓	✓		✓	✓		✓	58
FM	0.0031		✓	✓	✓		✓	✓	✓	59
L/F-SI	0.0031			✓			✓			60
...W	0.0039	✓	✓	✓			✓	✓	✓	61
RF	0.0039		✓	✓			✓	✓		62
RM	0.0039		✓	✓			✓	✓	✓	63
UR	0.0039	✓	✓	✓	✓		✓	✓	✓	64
RM3	0.0059	✓	✓	✓			✓			65
OR	0.0236		✓							66
SR	0.0236		✓							67
DR4	0.0276		✓							68

S

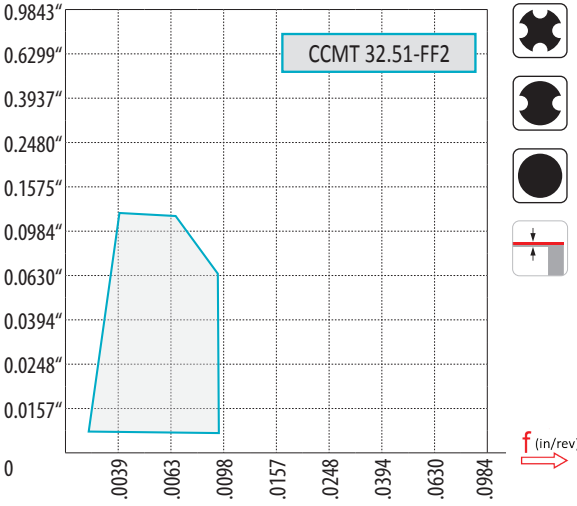


Chip breaker	≥ f_{min} (inch/rev)	R	S	C	W	E	T	D	V	
W-UR	0.0031			✓						72
W-FM	0.0039			✓				✓		73

FF2



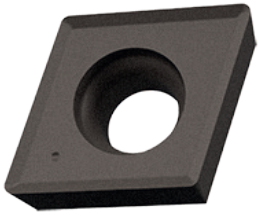
CCMT 32.51-FF2

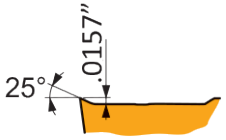


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	◪
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

SCMT	CCMT CCGT	WCGT	TCMT TCGT	DCMT DCGT	VBMT VCGT VCGX
					

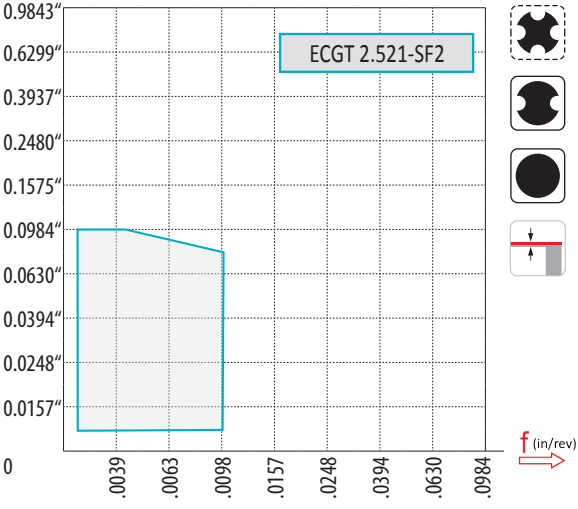
SF2



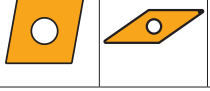


ECGT 2.521-SF2

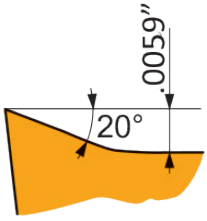
P	P1	■
	P2	◪
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	◪
	N2	◪
	N3	◪
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	◪
	H2	
	H3	
	H4	



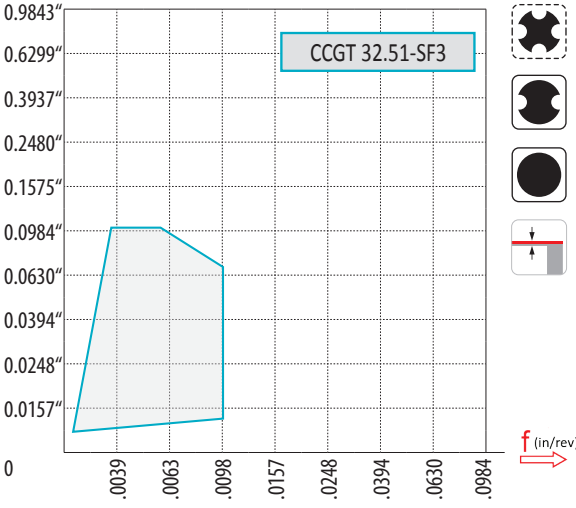
ECMT **VCGT**



SF3



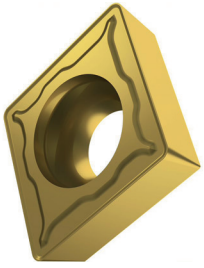
CCGT 32.51-SF3

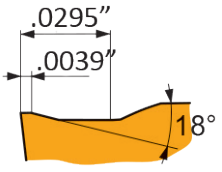


P	P1	■
	P2	◪
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	◪
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	◪
	H2	
	H3	
	H4	

SCGT CCGT ECGT TCGT DCGT VCGT

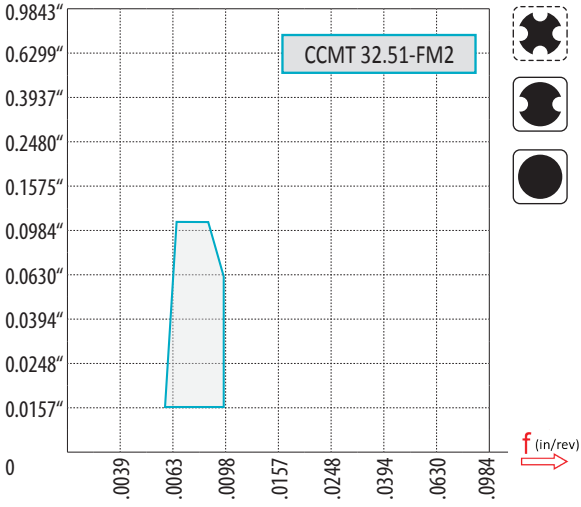
FM2

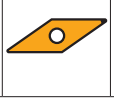




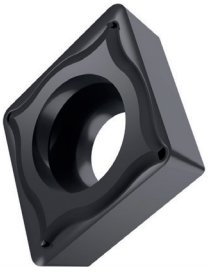
CCMT 32.51-FM2

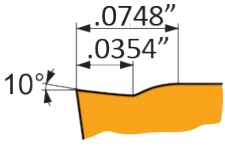
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	◪
	H3	■
	H4	◪



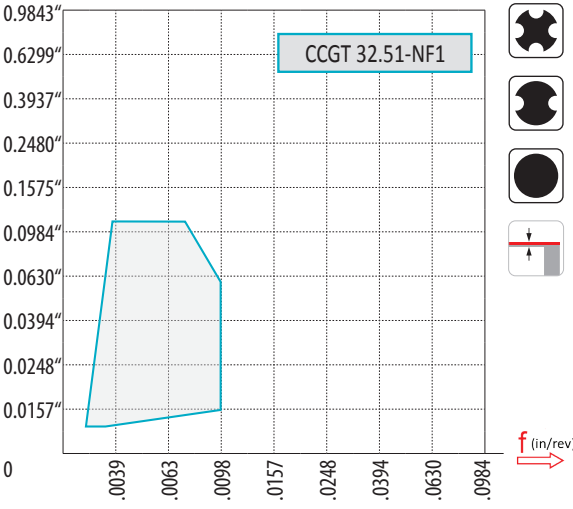
SCMT	CCMT	ECMT	TCMT	DCMT	VBMT VCGT
					

NF1



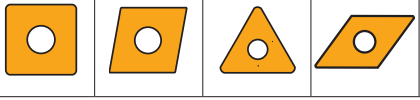


CCGT 32.51-NF1

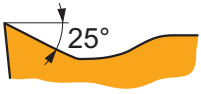


P	P1	■
	P2	◪
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	◪
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	◪
	H3	◪
	H4	◪

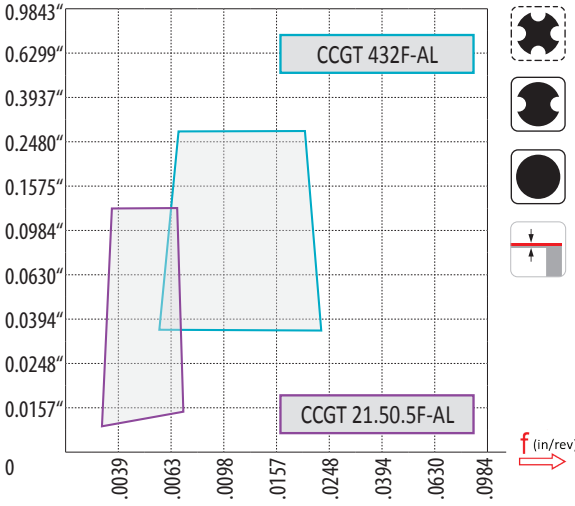
SCGT **CCGT** **TCGT** **DCGT**



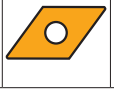
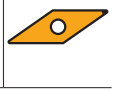
AL



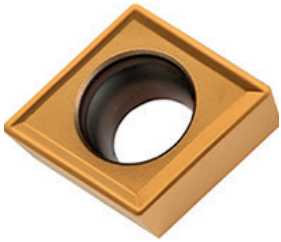
CCGT 432F-AL

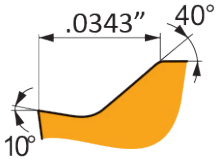


P	P1	◢
	P2	◢
	P3	◢
	P4	◢
M	M1	◢
	M2	◢
	M3	◢
	M4	◢
K	K1	◢
	K2	◢
	K3	◢
	K4	◢
N	N1	■
	N2	■
	N3	■
	N4	■
S	S1	◢
	S2	◢
	S3	◢
	S4	◢
H	H1	◢
	H2	
	H3	
	H4	

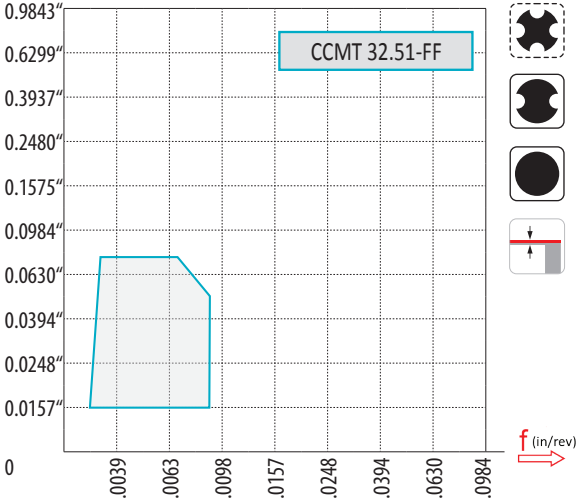
RCGT	SCGT	CCGT	WCGT	TCGT	DCGT	VCGT
						

FF





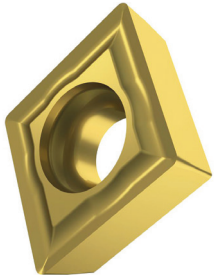
CCMT 32.51-FF



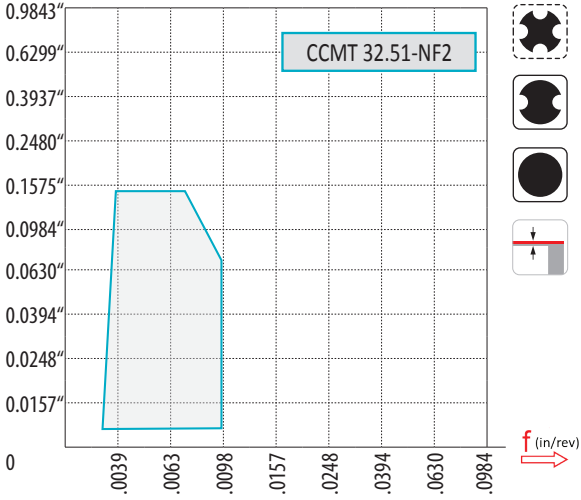
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

CCMT	DCMT					
						

NF2

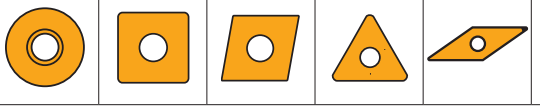


CCMT 32.51-NF2

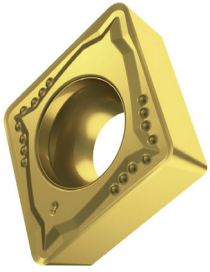


P	P1	■
	P2	■
	P3	◪
	P4	◪
M	M1	■
	M2	◪
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	◪
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

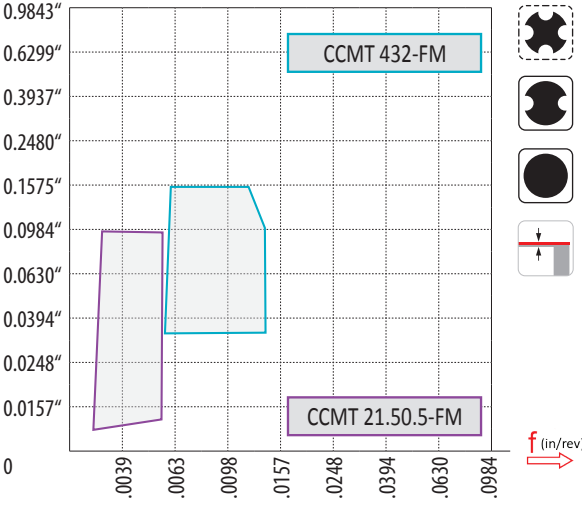
RCMT **SCMT** **CCMT** **TCMT** **VCGT**



FM



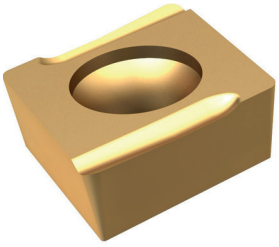
CCMT 432-FM



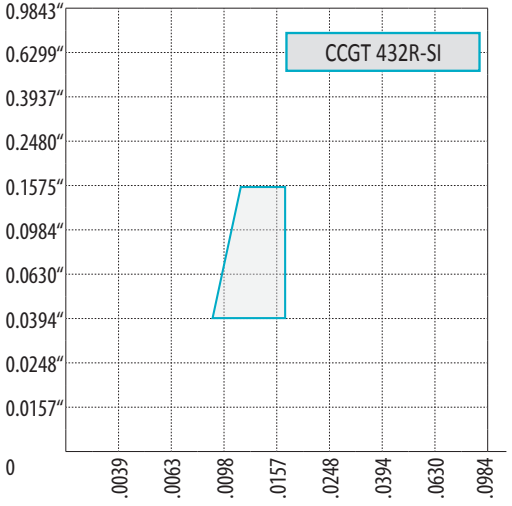
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	◪
S	S1	◪
	S2	◪
	S3	
	S4	
H	H1	◪
	H2	
	H3	
	H4	

RCMT	SCMT	CCMT	WCMT	TCMT	DCMT	VBMT VCMT
						

L/R-SI



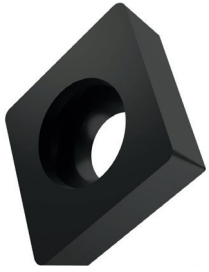
CCGT 432R-SI

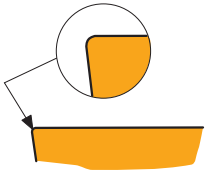


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	◪
	N3	◪
	N4	◪
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	
	H2	
	H3	
	H4	

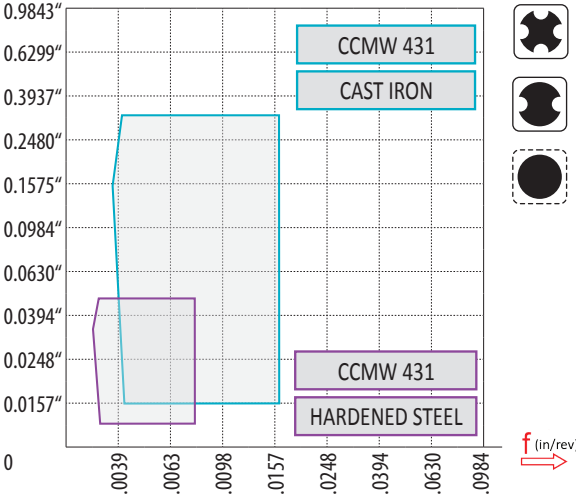
CCGT	DCGT	TCGT				
						

...W





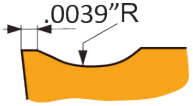
CCMW 432



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
						

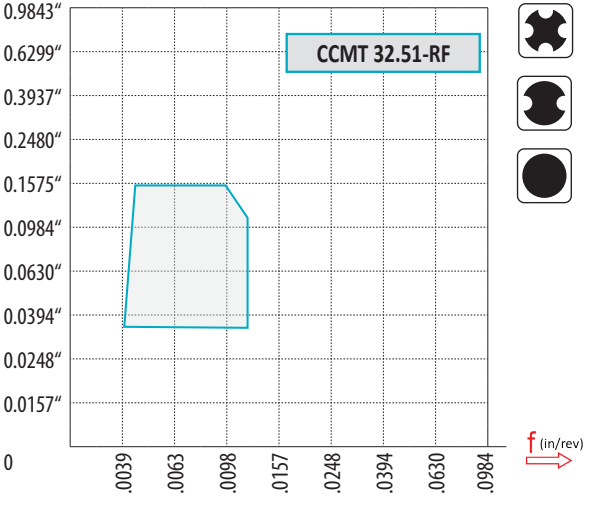
RF



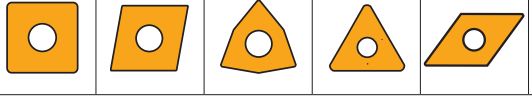
I.C.	R
.250"	.039"
.375"	.059"
.500"	.098"

CCMT 32.51-RF

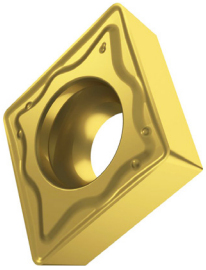
P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	◪
	H4	◪

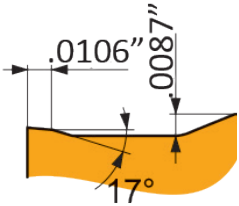


SCMT **CCMT** **WCMT** **TCMT** **DCMT**

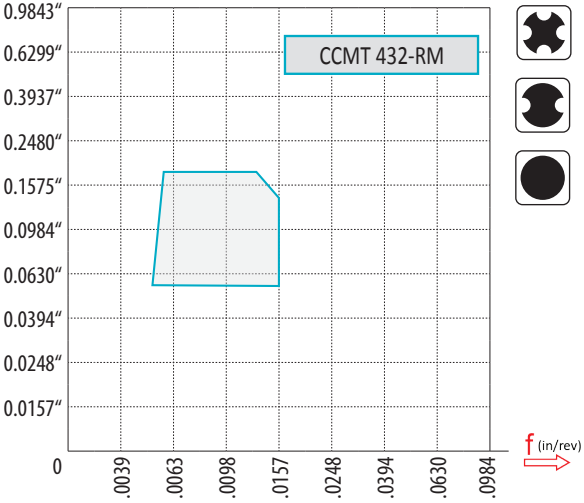


RM



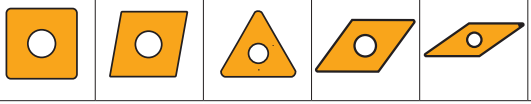


CCMT 432-RM

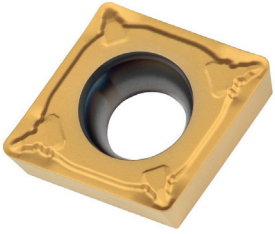


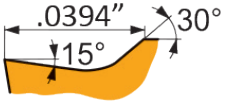
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	◪
	S4	◪
H	H1	■
	H2	■
	H3	■
	H4	◪

SCMT CCMT TCMT DCMT VBMT

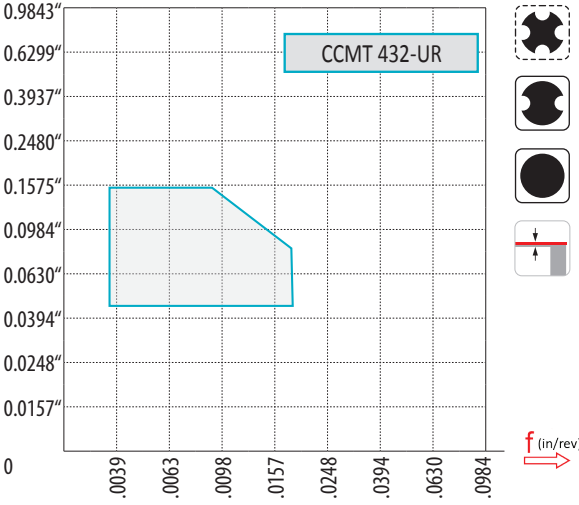


UR

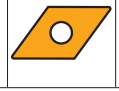
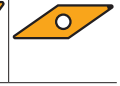




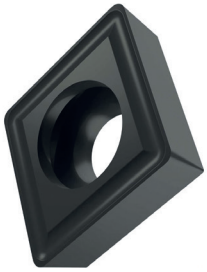
CCMT 432-UR

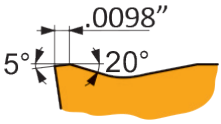


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	◪
N	N1	
	N2	◪
	N3	
	N4	◪
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

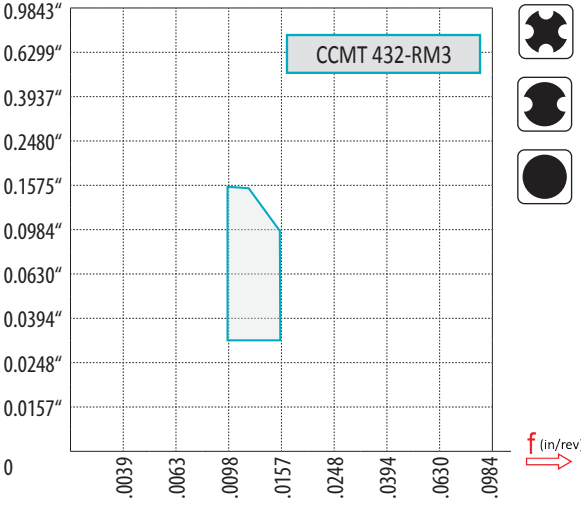
RCMT	SCMT	CCMT	WCMT	TCMT	DCMT	VBMT VCMT
						

RM3





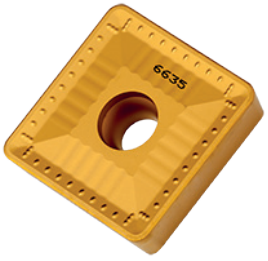
CCMT 432-RM3

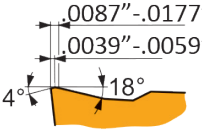


P	P1	◪
	P2	■
	P3	■
	P4	■
M	M1	◪
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	■
	H3	■
	H4	◪

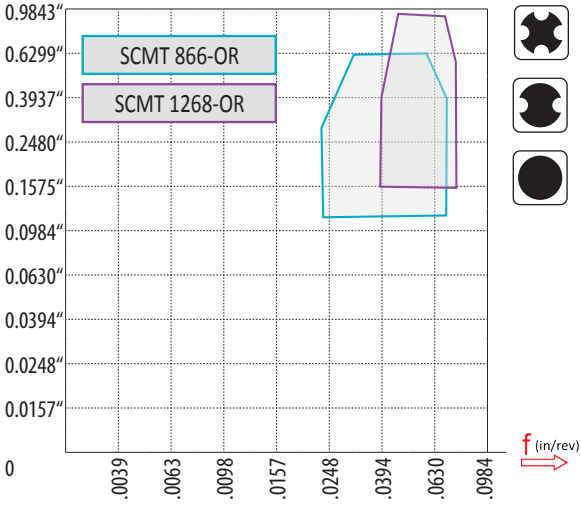
RCMT	SCMT	CCMT	TCMT			
						

OR





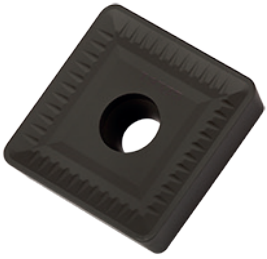
SCMT 866-OR

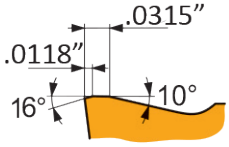


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	◪
	K2	◪
	K3	■
	K4	◪
N	N1	
	N2	
	N3	
	N4	
S	S1	◪
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

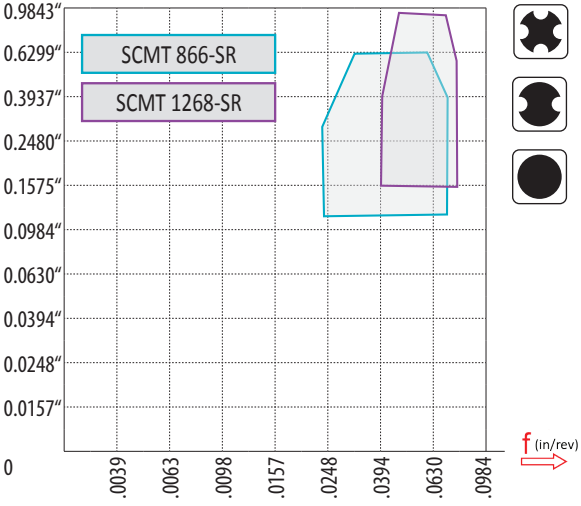
SCMT

SR





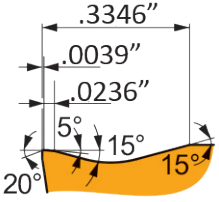
SCMT 866-SR



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



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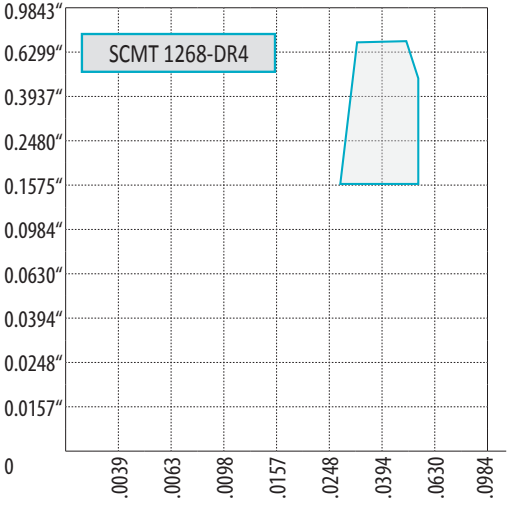
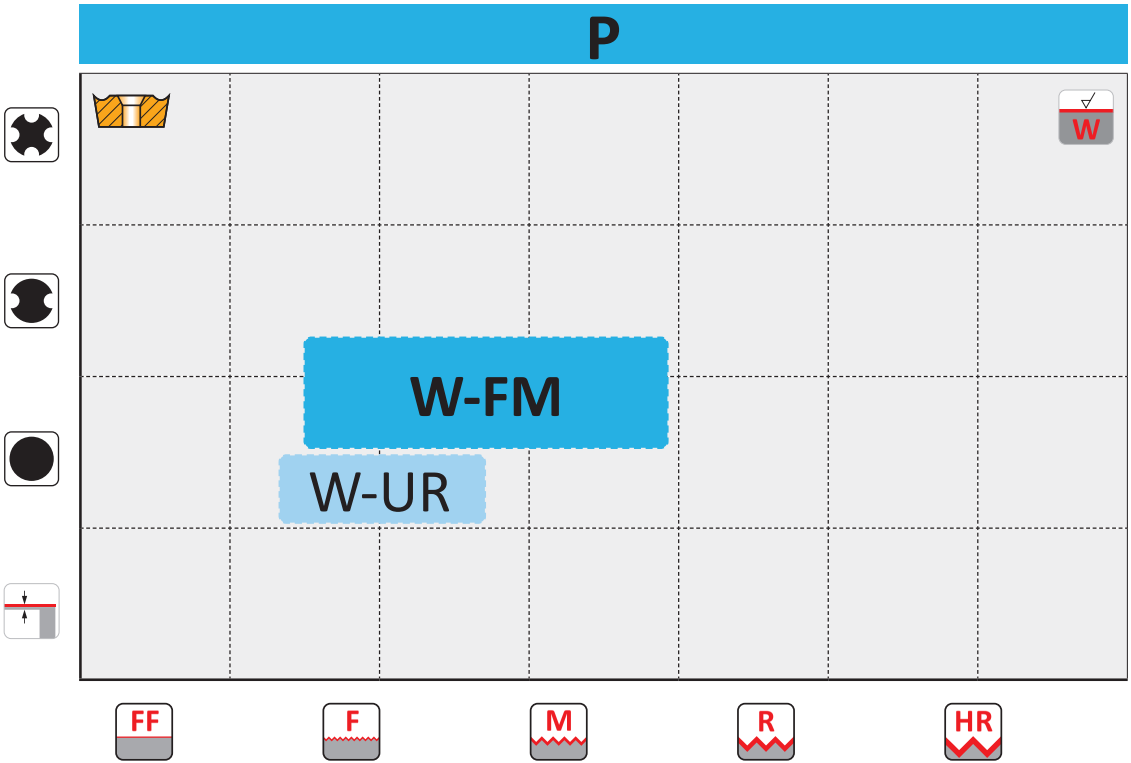
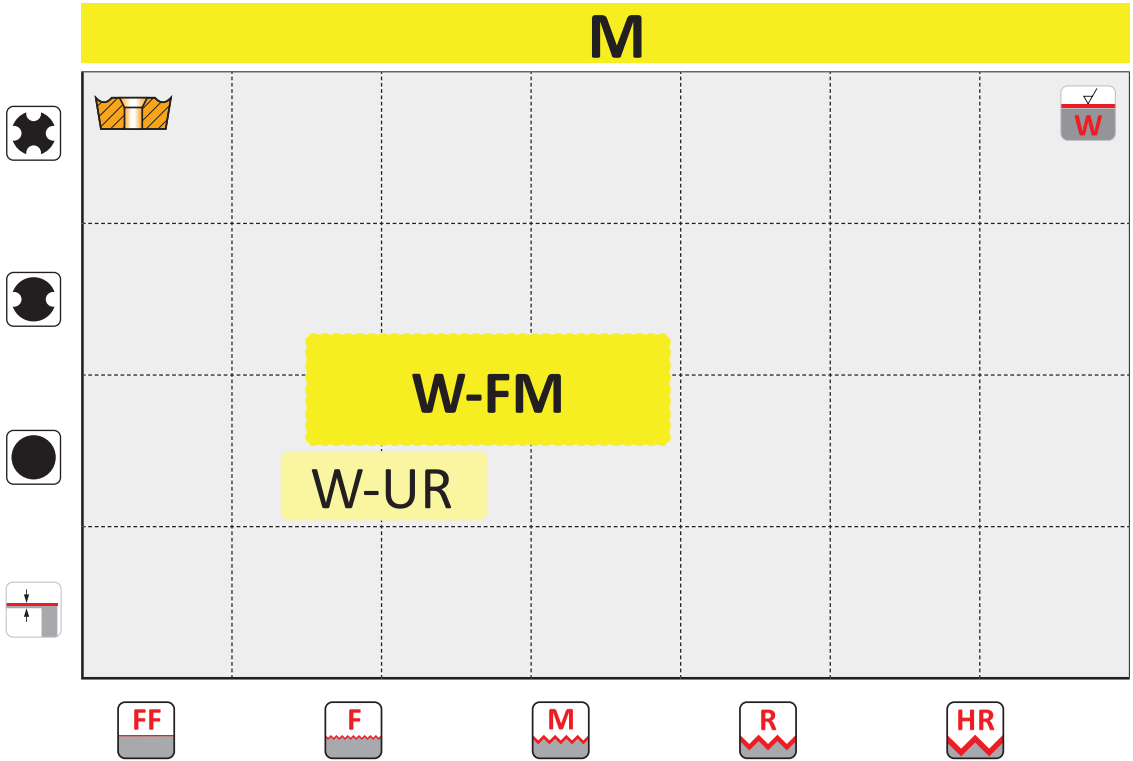


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

SCMT


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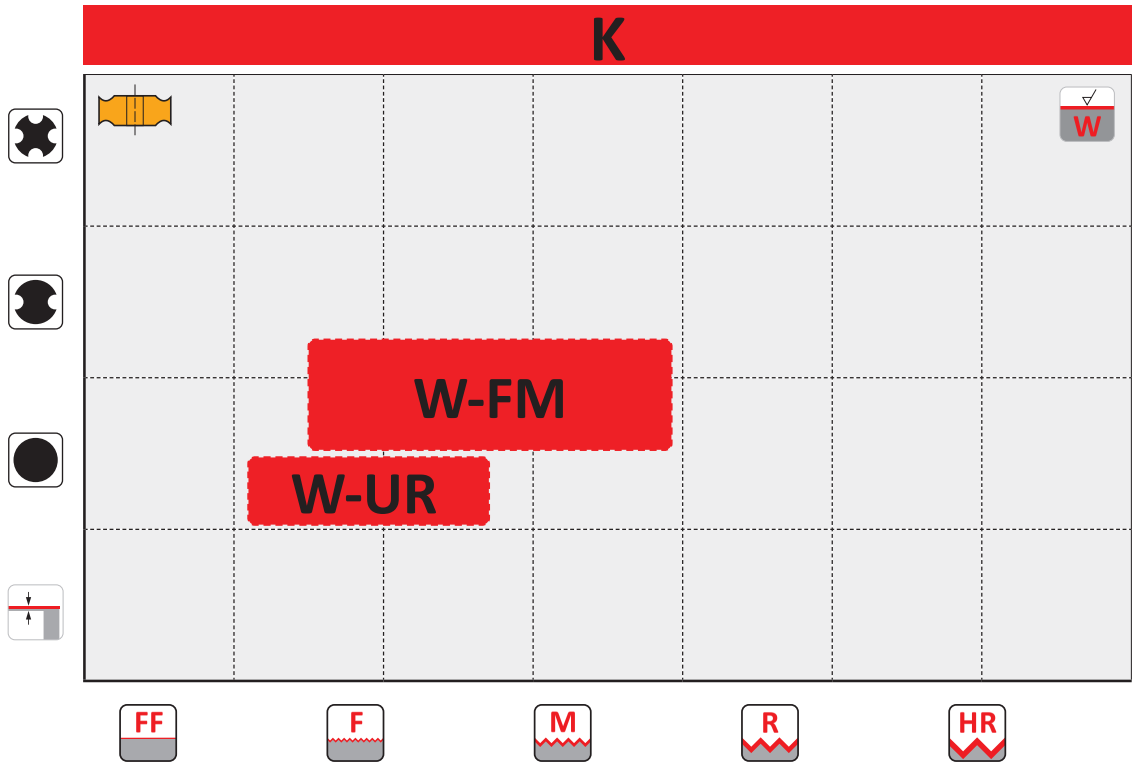
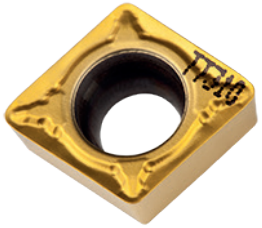
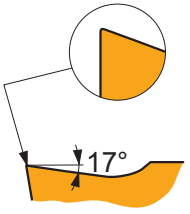
FF
F
M
R
HR

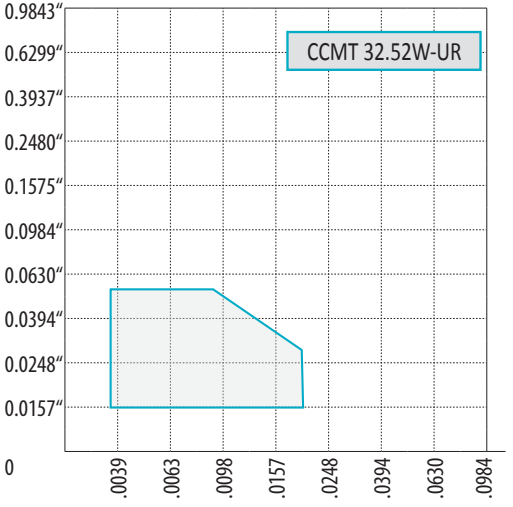

K
W
W-FM
W-UR
FF
F
M
R
HR

W-UR





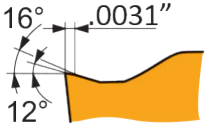
CCMT 32.52W-UR



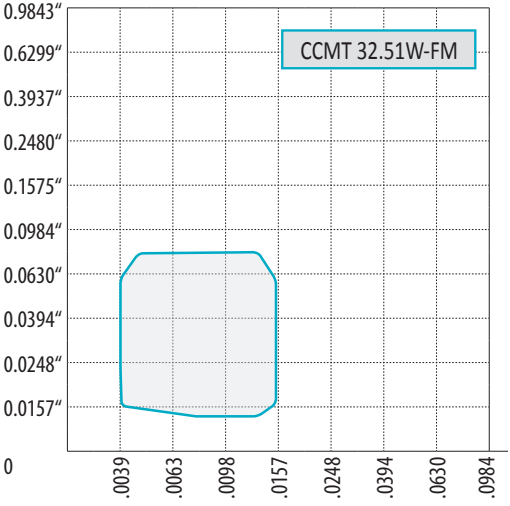
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◪
	M4	◪
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	◪
	N3	◪
	N4	◪
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

CCGT

W-FM



CCMT 32.51W-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	

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