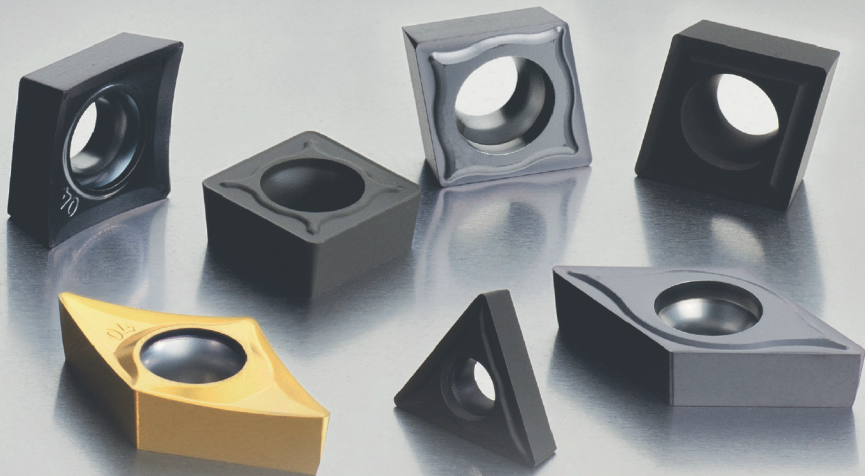








ZENITTOOLS

TURNING CHIPBREAKER GUIDE





ISO Material Group Subgroup	ZENIT	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

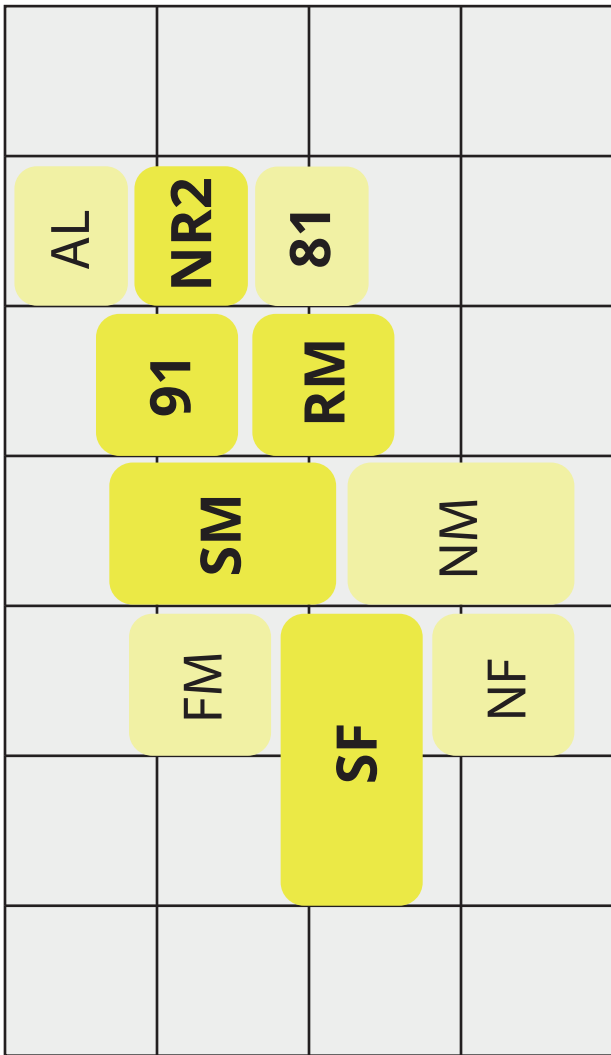
		
 	.0020 – .0079 inch/rev	.0020 – .0787 inch
	.0079 – .0157 inch/rev	.0787 – .1575 inch
	.0157 – .0394 inch/rev	.1575 – .3937 inch
	> .0394 inch/rev	> .3937 inch

NEGATIVE INSERTS

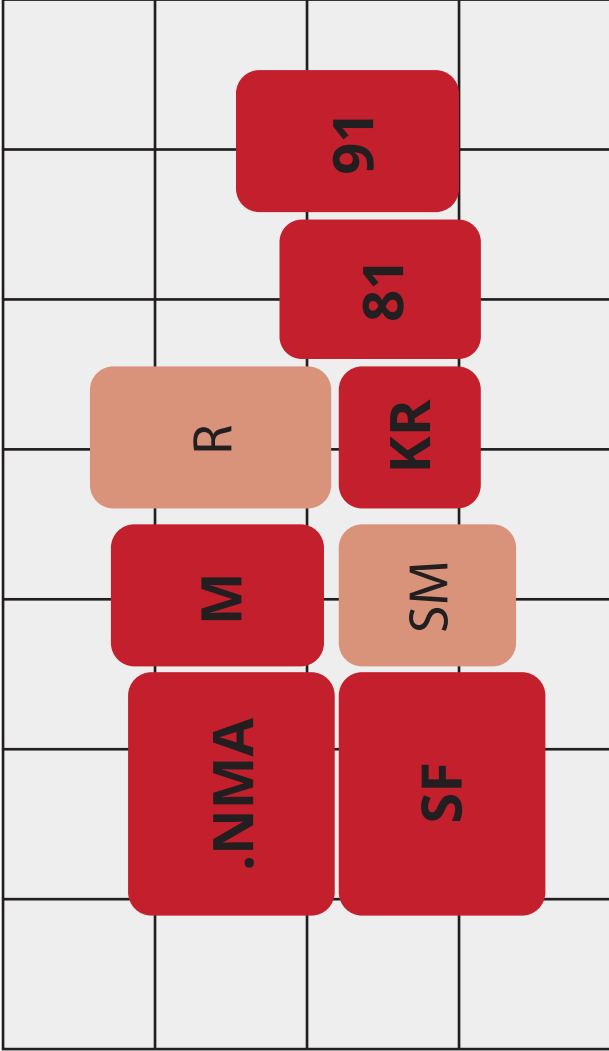
P, D and M - CLAMPING STYLE

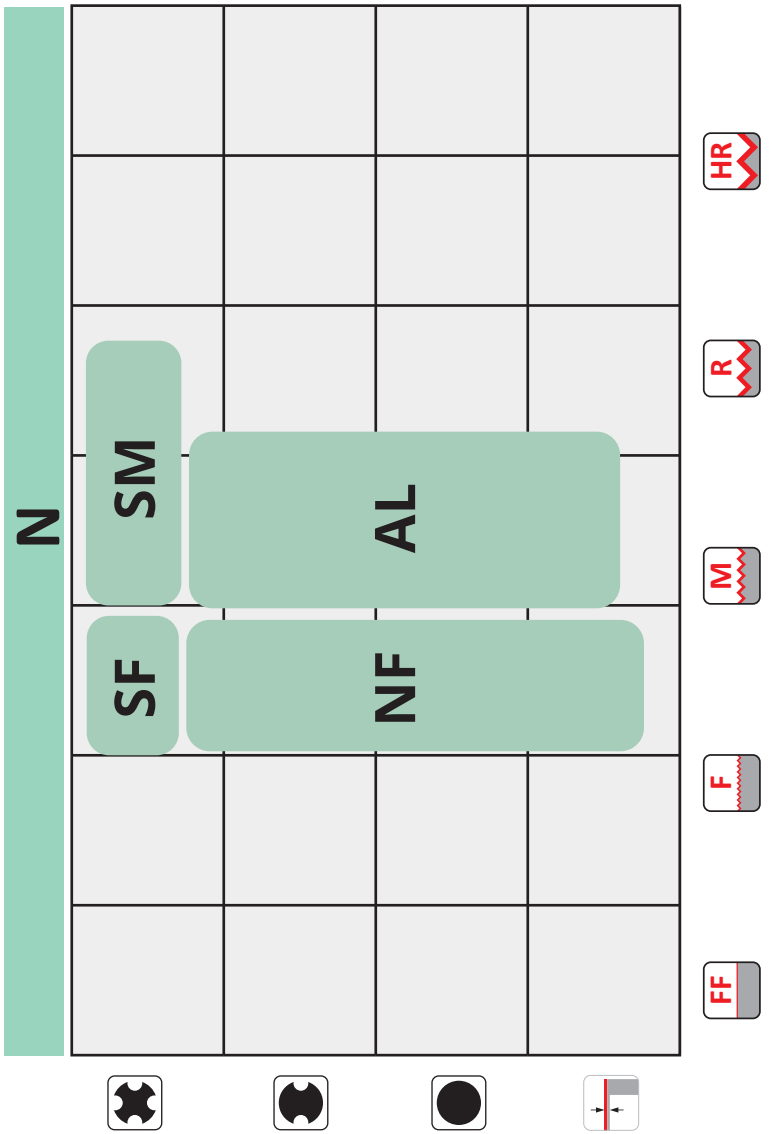


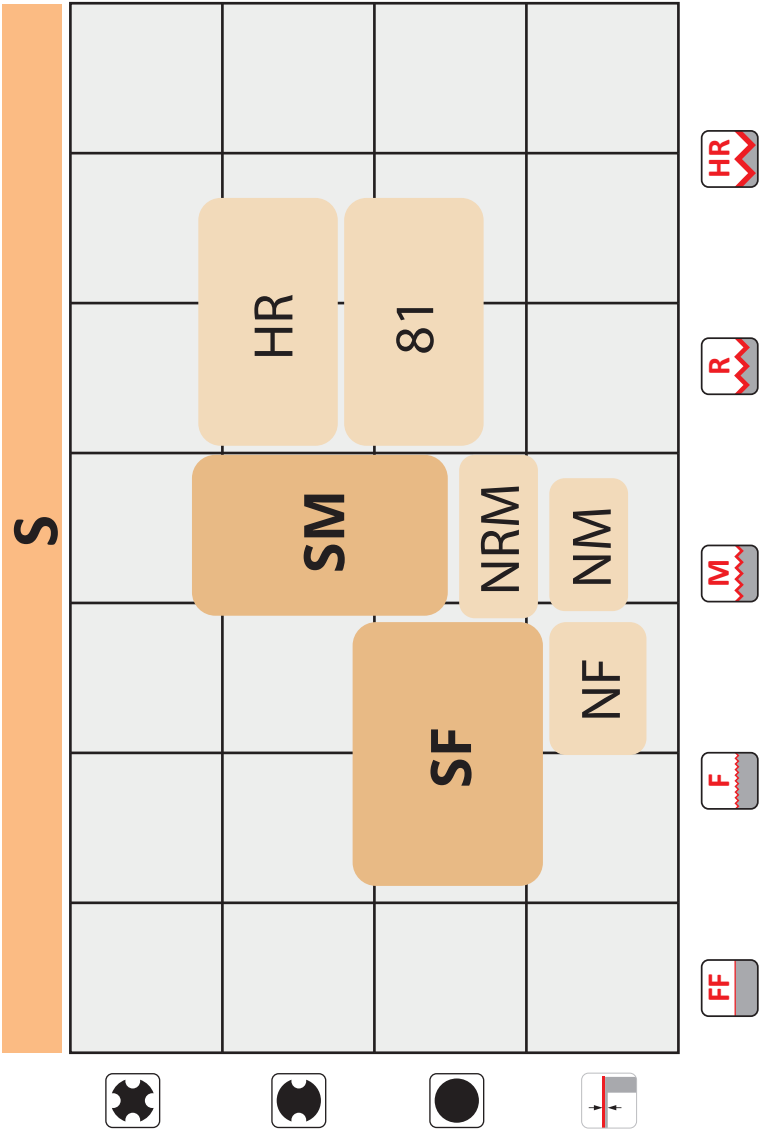
M



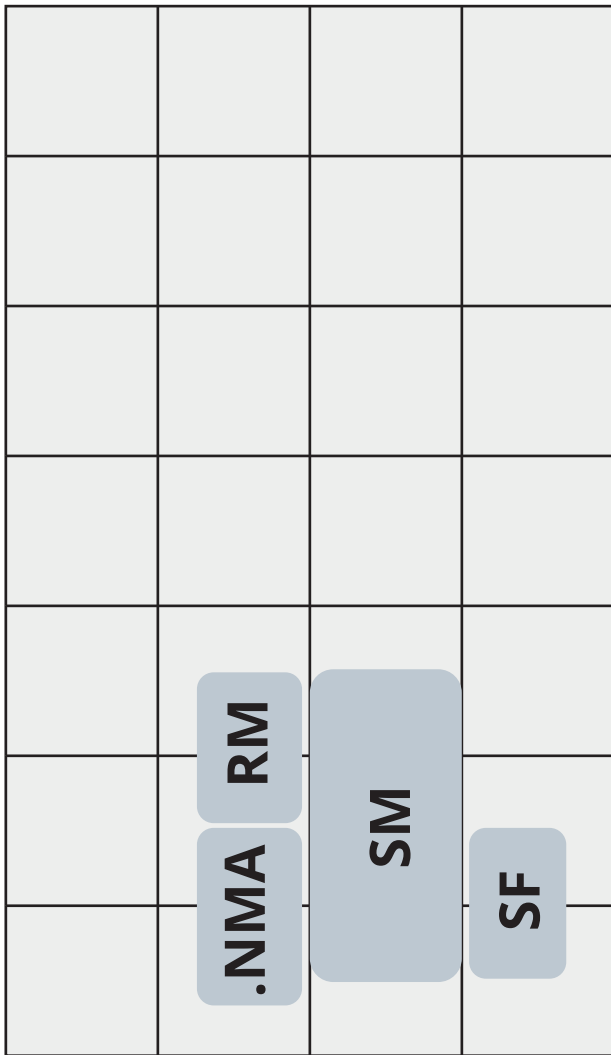
K

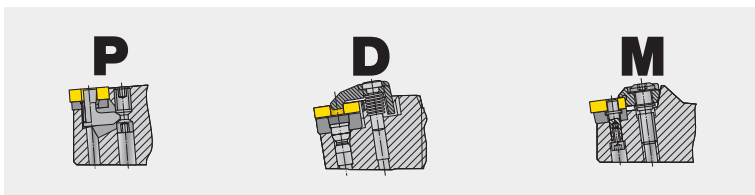












H

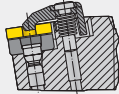
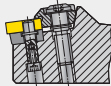










Chip breaker	$\geq f_{\min}$ (inch/rev)						
		S	C	W	T	D	V



FF	0.0024		✓	✓	✓	✓	✓
SF	0.0031	✓	✓	✓	✓	✓	✓
...A	0.0039	✓	✓	✓	✓	✓	
NF	0.0039	✓	✓	✓	✓	✓	✓
FM	0.0059	✓	✓	✓	✓	✓	✓
NM	0.0059		✓	✓	✓	✓	✓
SM	0.0059	✓	✓	✓	✓	✓	✓
M	0.0067	✓	✓	✓	✓	✓	✓
NMR	0.0071	✓	✓	✓	✓	✓	✓
KR	0.0079	✓	✓	✓	✓		
78	0.0079		✓	✓	✓	✓	
NRM	0.0091	✓	✓	✓		✓	
AL	0.0118	✓	✓	✓	✓	✓	
RM	0.0118	✓	✓	✓	✓	✓	

P**D****M**

Chip breaker	$\geq f_{\min}$ (Inch/rev)						
		S	C	W	T	D	V

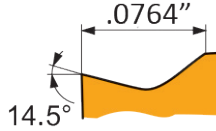
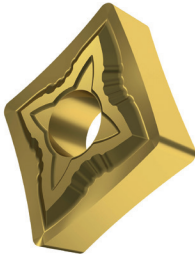


NR	0.0098	✓	✓	✓	✓	✓	
NR2	0.0098	✓	✓	✓	✓	✓	
81	0.0098	✓	✓	✓	✓	✓	
DR	0.0118	✓	✓	✓	✓		
NRM	0.0126	✓	✓				

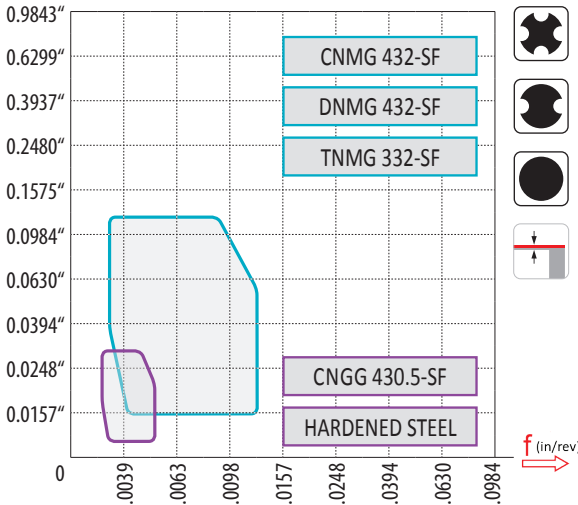


WF	0.0059		✓	✓			
WM	0.0059		✓	✓		✓	

SF



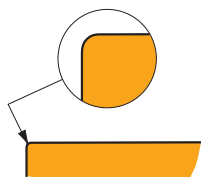
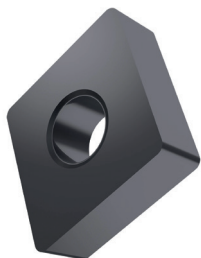
CNMG 432-SF



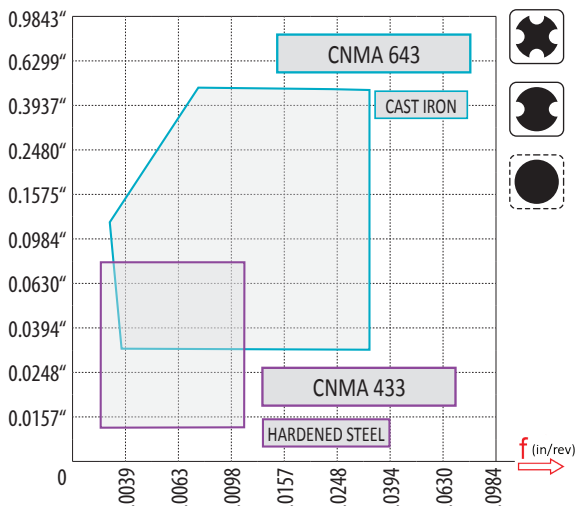
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	P3	■
	P4	■
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	M2	■
	M3	■
	M4	■
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	K2	■
	K3	■
	K4	■
N	N1	■
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	■
	H3	■
	H4	■

SNMG	CNMG CNGG	WNMG	TNMG	DNMG	VNMG

...A



CNMA 643

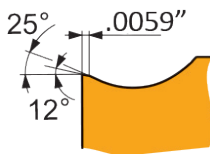


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	P3	
	P4	
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	M2	
	M3	
	M4	
K	K1	■
	K2	■
	K3	▣
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	■
	H3	▣
	H4	■

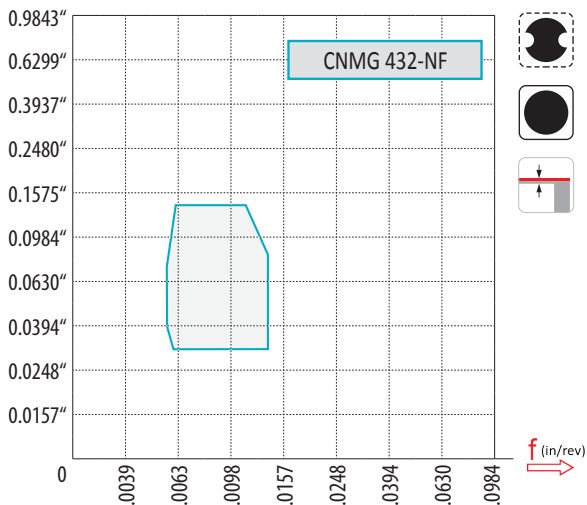
SNMA CNMA WNMA TNMA DNMA



NF



CNMG 432-NF



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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

WNMG

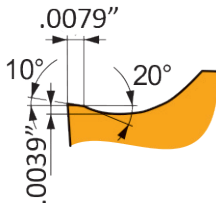
TNMG

DNMG

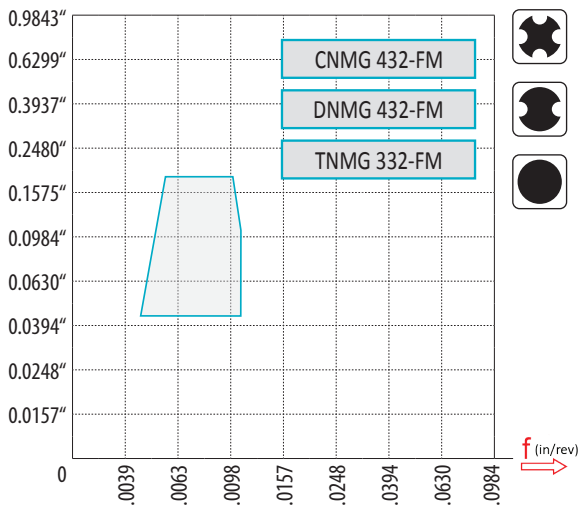
VNMG



FM



CNMG 432FM



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	P3	■
	P4	■
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	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

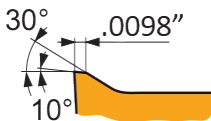
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DNMG

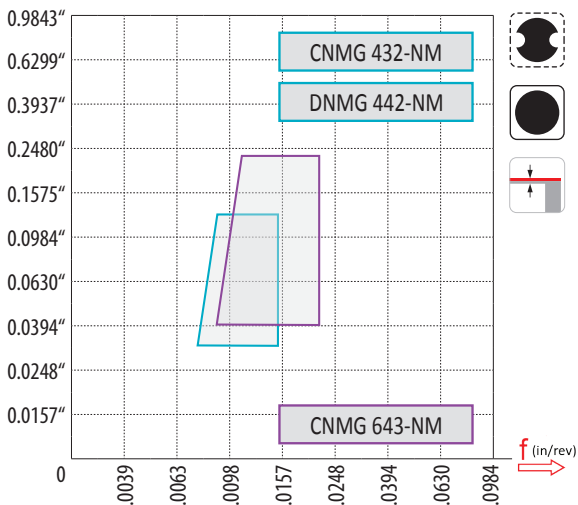
VNMG



NM



CNMG 432-NM



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	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

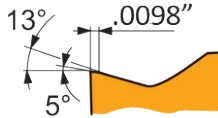
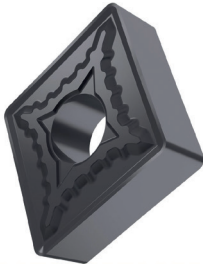
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DNMG

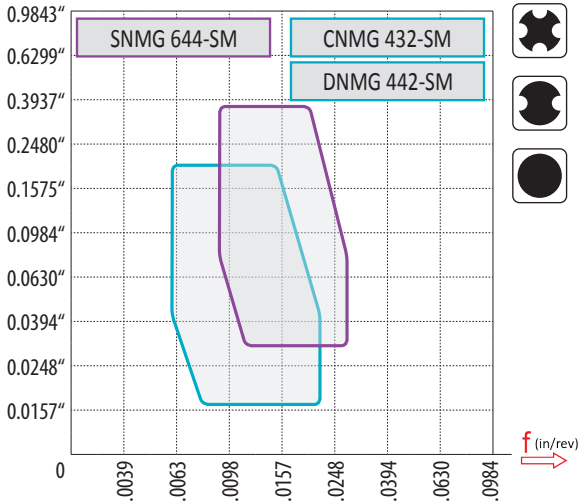
VNMG



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

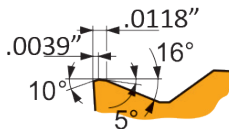
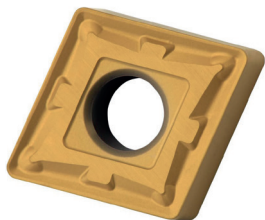
TNMG

DNMG

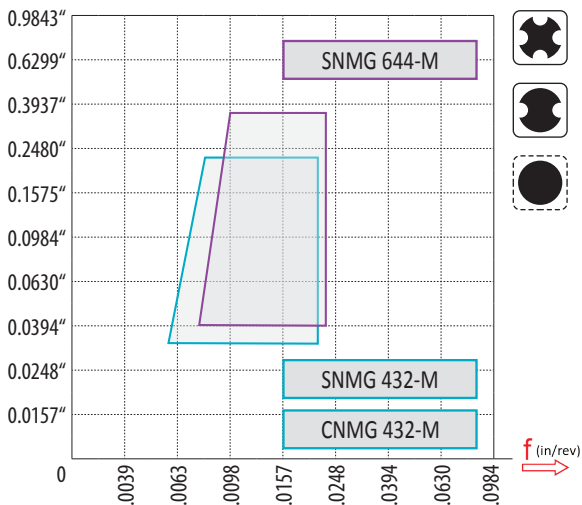
VNMG



M



CNMG 432-M



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	P4	<input type="checkbox"/>
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	M3	<input type="checkbox"/>
	M4	<input type="checkbox"/>
K	K1	<input type="checkbox"/>
	K2	<input type="checkbox"/>
	K3	<input type="checkbox"/>
	K4	<input type="checkbox"/>
N	N1	<input type="checkbox"/>
	N2	<input type="checkbox"/>
	N3	<input type="checkbox"/>
	N4	<input type="checkbox"/>
S	S1	<input type="checkbox"/>
	S2	<input type="checkbox"/>
	S3	<input type="checkbox"/>
	S4	<input type="checkbox"/>
H	H1	<input type="checkbox"/>
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SNMG

CNMG

WNMG

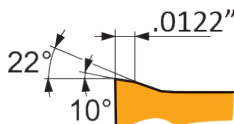
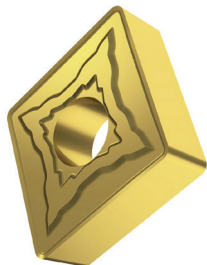
TNMG

DNMG

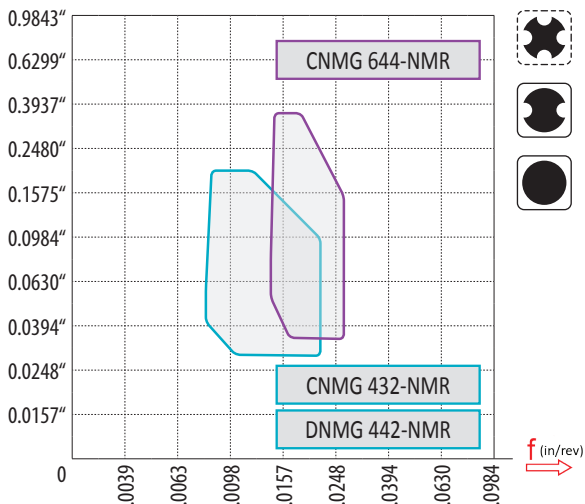
VNMG



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

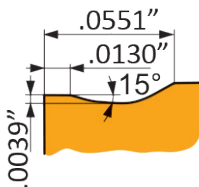
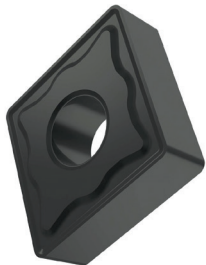
TNMG

DNMG

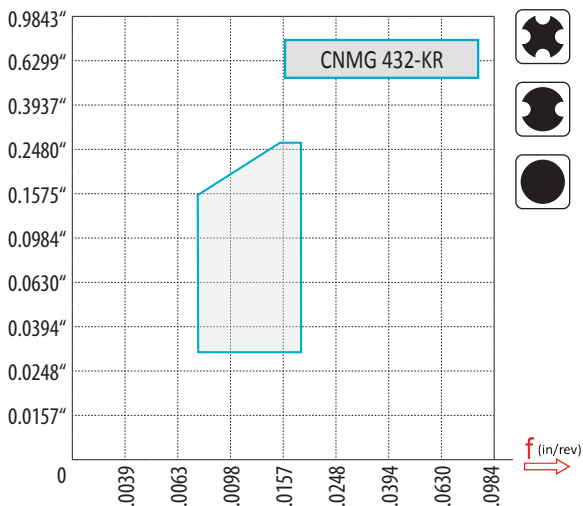
VNMG



KR



CNMG 432-KR



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

SNMG

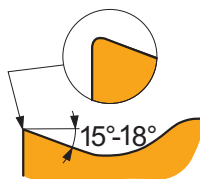
CNMG

WNMG

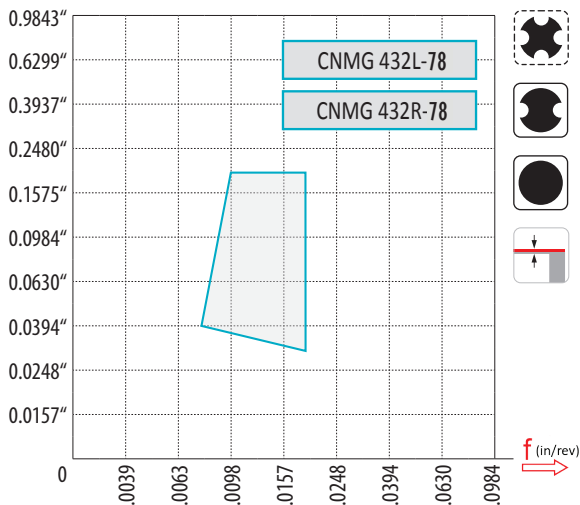
TNMG



78



CNMG 432R-78

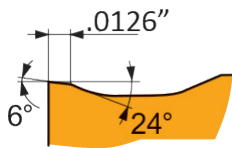
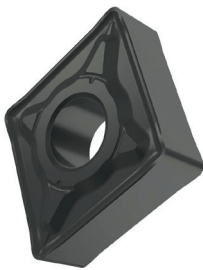


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	▣
	N2	■
	N3	▣
	N4	■
S	S1	■
	S2	■
	S3	▣
	S4	▣
H	H1	■
	H2	■
	H3	■
	H4	■

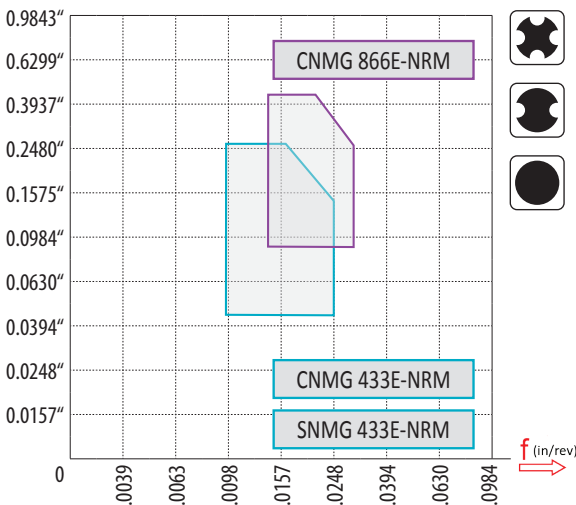
CNMG WNMG TNMG DNMG



NRM



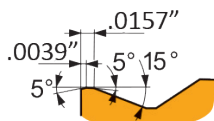
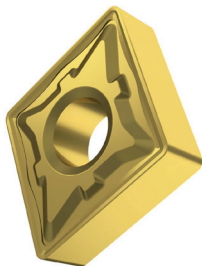
CNMG 433E-NRM



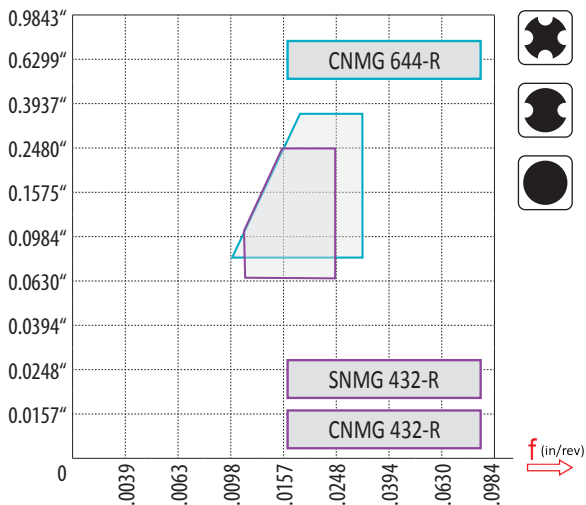
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	P3	■
	P4	▣
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	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	■
	N2	■
	N3	■
	N4	■
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	■
	H3	■
	H4	■

SNMG	CNMG	WNMG	DNMG			

R



CNMG 644-R

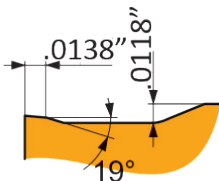
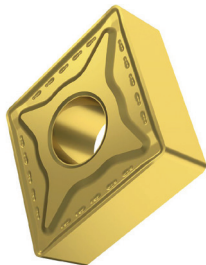


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	M4	<input checked="" type="checkbox"/>
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	K3	<input type="checkbox"/>
	K4	<input type="checkbox"/>
N	N1	<input type="checkbox"/>
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	S3	<input type="checkbox"/>
	S4	<input type="checkbox"/>
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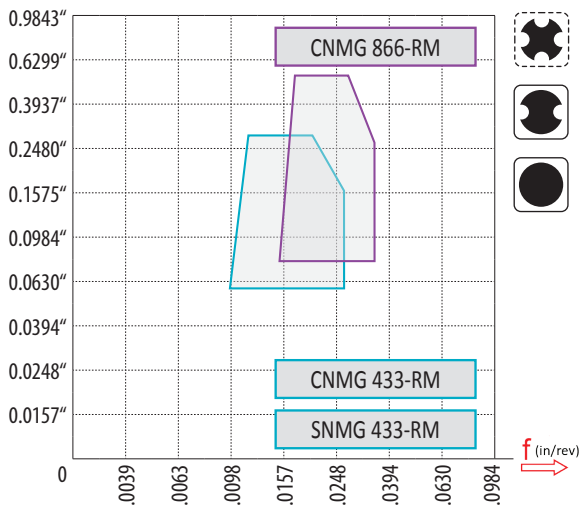
SNMG CNMG WNMG TNMG DNMG



RM



CNMG 432-RM

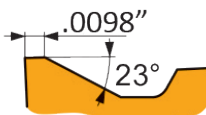
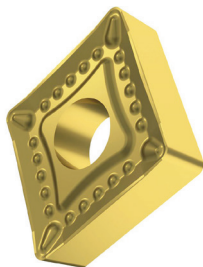


P	P1	■
	P2	■
	P3	■
	P4	▣
M	M1	■
	M2	■
	M3	▣
	M4	▣
K	K1	■
	K2	▣
	K3	■
	K4	▣
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	
	H2	
	H3	
	H4	

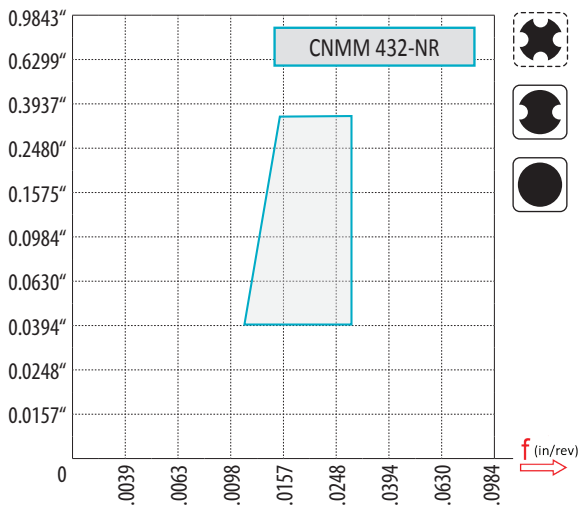
SNMG CNMG WNMG TNMG DNMG



NR



CNMM 432-NR

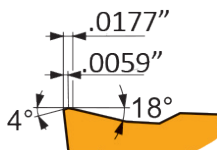
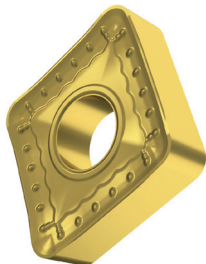


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	◻
	K2	◻
	K3	■
	K4	◻
N	N1	
	N2	
	N3	
	N4	
S	S1	◻
	S2	◻
	S3	◻
	S4	◻
H	H1	
	H2	
	H3	
	H4	

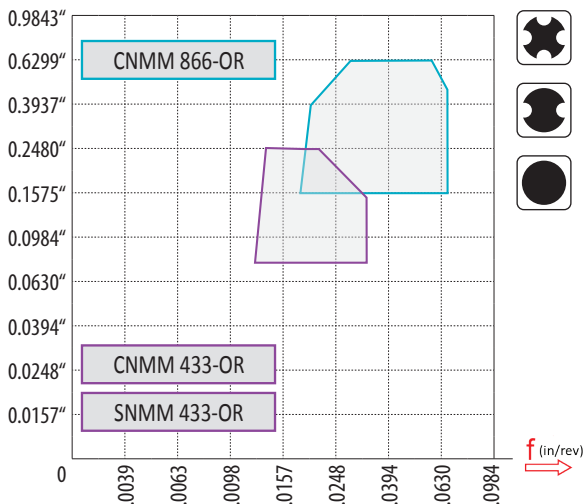
SNMM CNMM WNMM DNMM



81



CNMM 866-OR

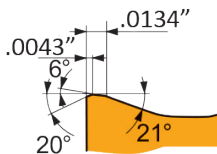
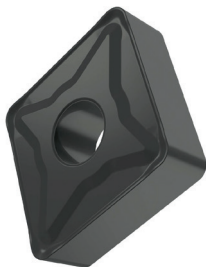


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	▣
	K2	▣
	K3	■
	K4	▣
N	N1	
	N2	
	N3	
	N4	
S	S1	▣
	S2	▣
	S3	▣
	S4	▣
H	H1	▣
	H2	
	H3	
	H4	

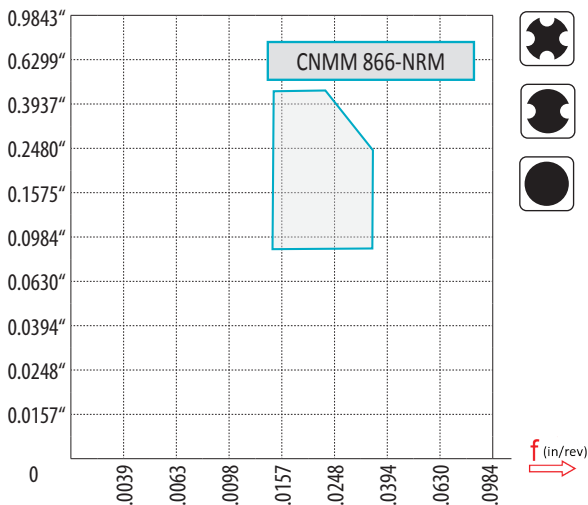
SNMM CNMM WNMM TNMM DNMM



NRM



CNMM 866-NRM

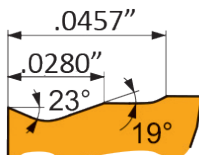
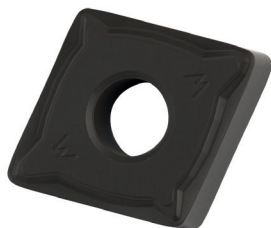


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	■
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	■
	S2	■
	S3	■
	S4	■
H	H1	▣
	H2	
	H3	
	H4	

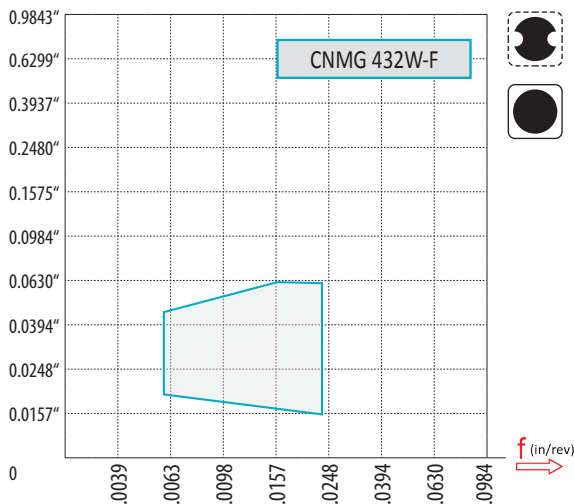
SNMM CNMM



WF



CNMG 432W-F

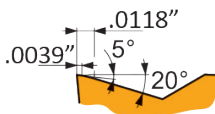
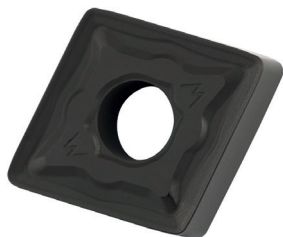


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	-
	M2	○
	M3	-
	M4	-
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	-
	N2	-
	N3	-
	N4	-
S	S1	-
	S2	-
	S3	-
	S4	-
H	H1	○
	H2	-
	H3	-
	H4	-

CNMG WNMG



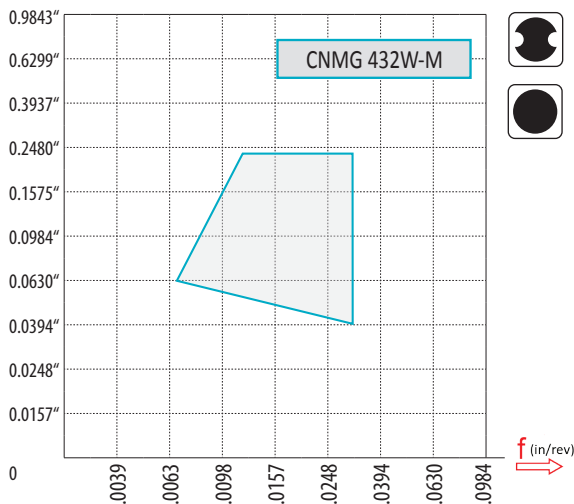
WM



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	



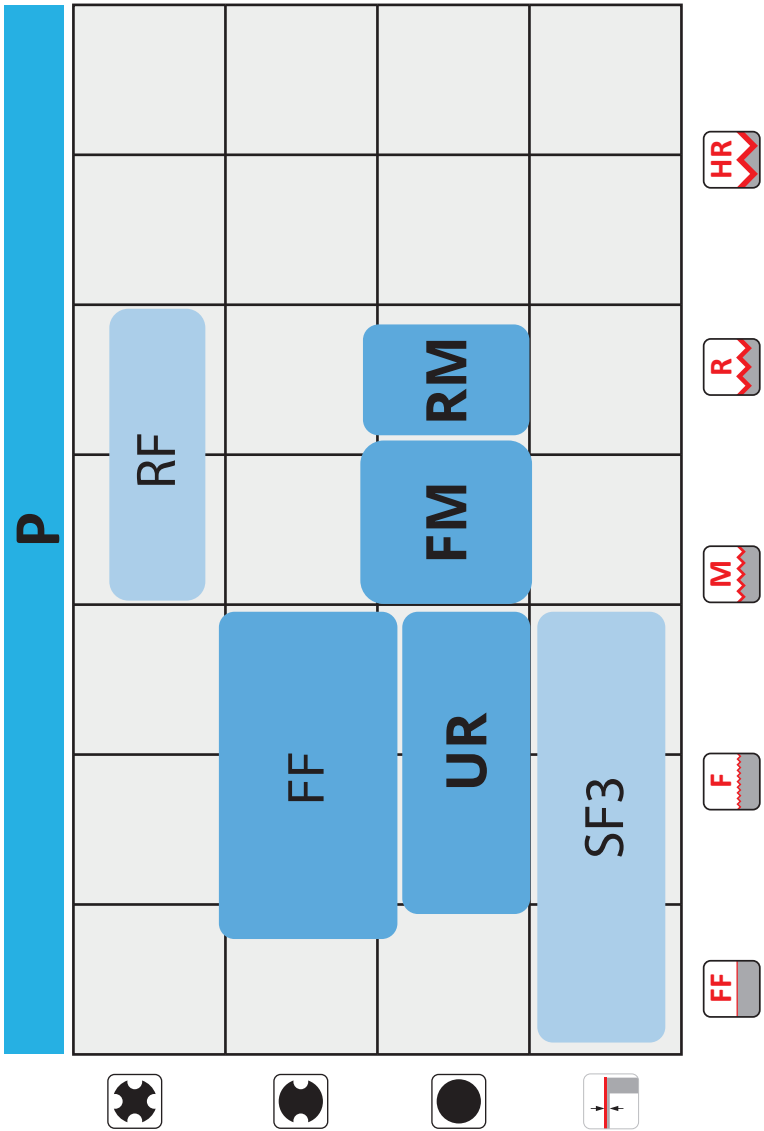
CNMG WNMG



POSITIVE INSERTS

S - CLAMPING STYLE





M

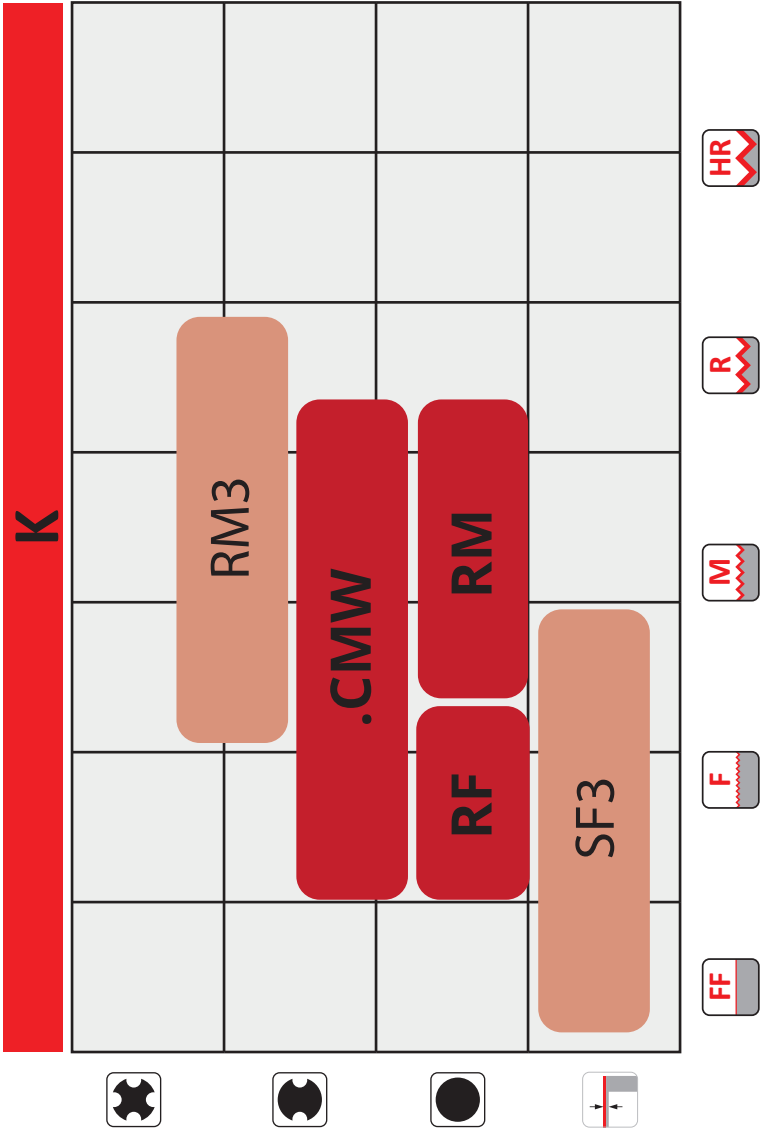


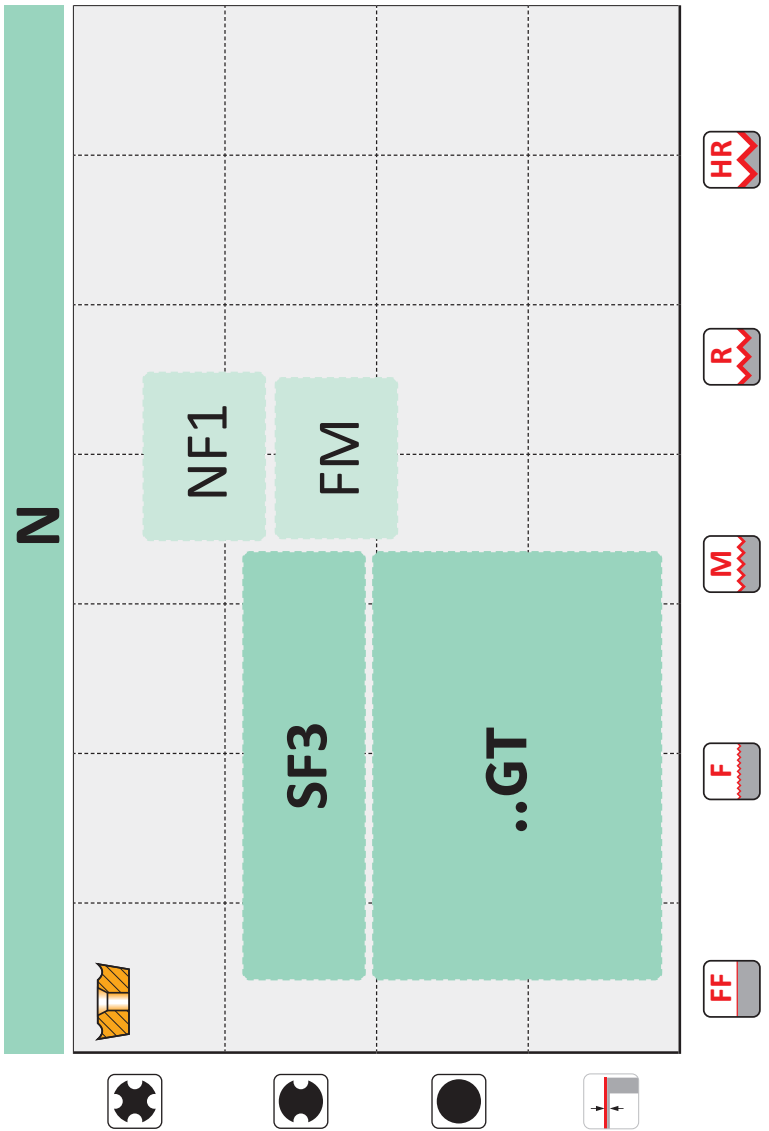
SF3

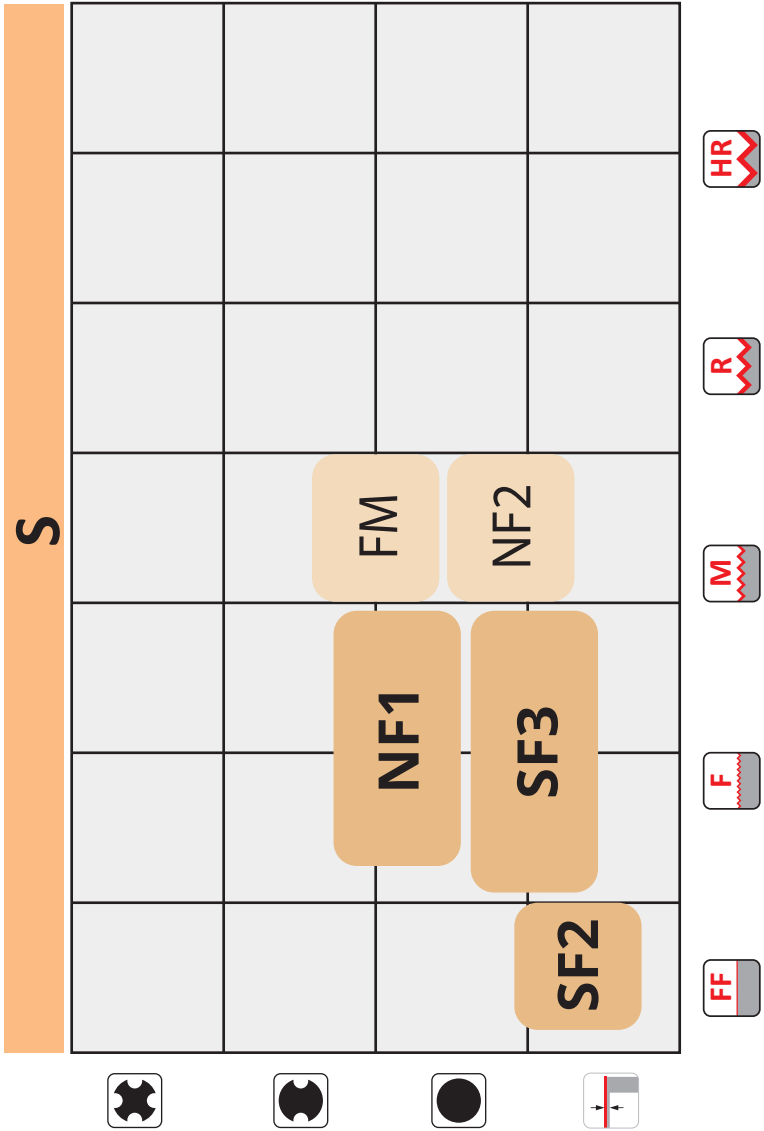
NF2

FM

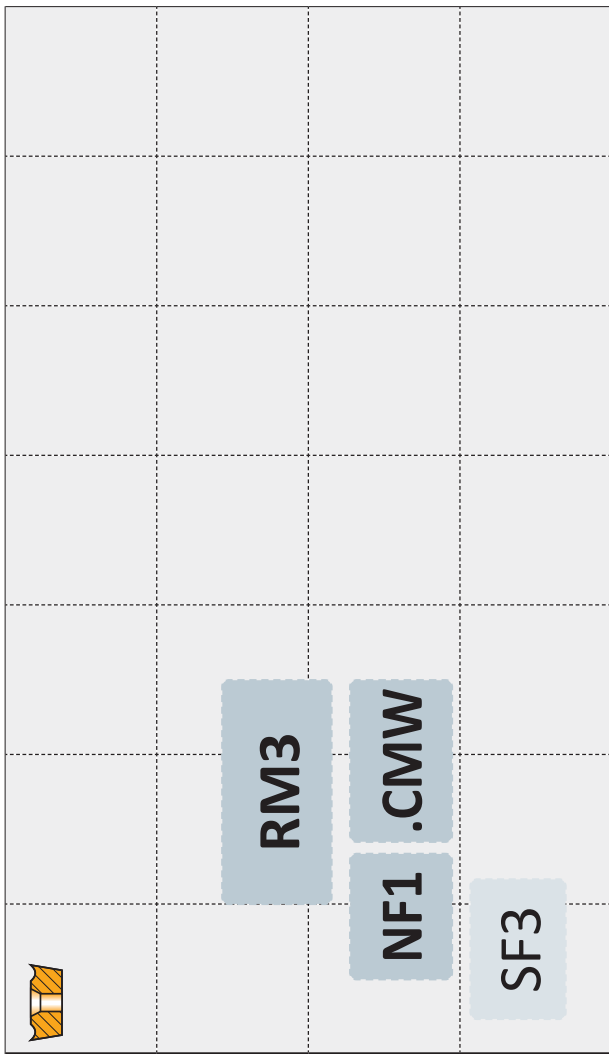
RM















H



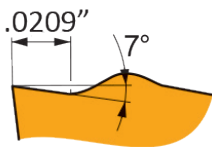
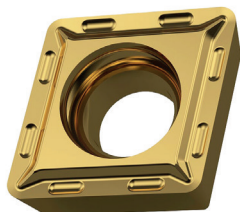
S

Chip breaker	$\geq f_{\min}$ (inch/rev)								
		R	S	C	W	E	T	D	V

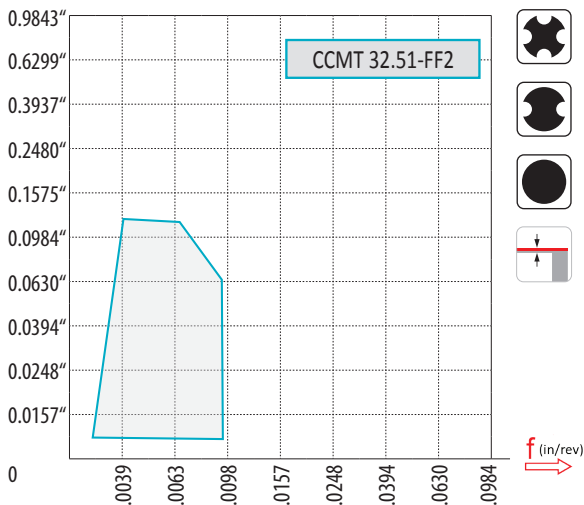


FF2	0.0008		✓	✓	✓		✓	✓	✓
SF2	0.0008					✓			✓
SF3	0.0008		✓	✓		✓	✓	✓	✓
FM2	0.0016		✓	✓		✓	✓	✓	✓
NF1	0.0016		✓	✓			✓	✓	
..GT	0.0020	✓	✓	✓	✓		✓	✓	✓
FF	0.0020			✓				✓	
NF2	0.0020	✓	✓	✓		✓	✓		✓
FM	0.0031		✓	✓	✓		✓	✓	✓
78	0.0031			✓			✓		
...W	0.0039	✓	✓	✓			✓	✓	✓
RF	0.0039		✓	✓			✓	✓	
RM	0.0039		✓	✓			✓	✓	✓
UR	0.0039	✓	✓	✓	✓		✓	✓	✓
RM3	0.0059	✓	✓	✓			✓		
OR	0.0236		✓						
SR	0.0236		✓						
DR4	0.0276		✓						

FF2



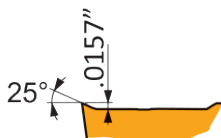
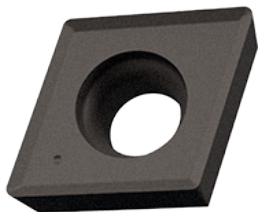
CCMT 32.51-FF2



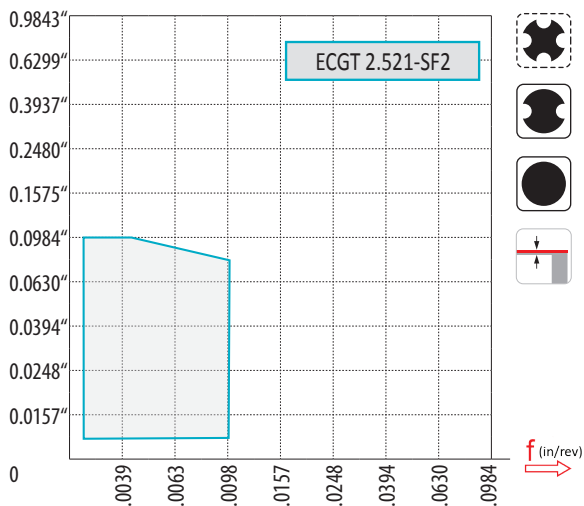
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	▣
	M2	▣
	M3	
	M4	
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	▣
	H2	
	H3	
	H4	

SCMT	CCMT CCGT	WCGT	TCMT TCGT	DCMT DCGT	VBMT VCGT VCGX

SF2



ECGT 2.521-SF2



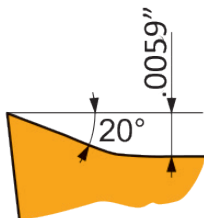
P	P1	<input type="checkbox"/>
	P2	<input checked="" type="checkbox"/>
	P3	<input checked="" type="checkbox"/>
	P4	<input checked="" type="checkbox"/>
M	M1	<input type="checkbox"/>
	M2	<input checked="" type="checkbox"/>
	M3	<input type="checkbox"/>
	M4	<input type="checkbox"/>
K	K1	<input checked="" type="checkbox"/>
	K2	<input checked="" type="checkbox"/>
	K3	<input checked="" type="checkbox"/>
	K4	<input checked="" type="checkbox"/>
N	N1	<input checked="" type="checkbox"/>
	N2	<input checked="" type="checkbox"/>
	N3	<input checked="" type="checkbox"/>
	N4	<input type="checkbox"/>
S	S1	<input type="checkbox"/>
	S2	<input type="checkbox"/>
	S3	<input type="checkbox"/>
	S4	<input type="checkbox"/>
H	H1	<input checked="" type="checkbox"/>
	H2	<input type="checkbox"/>
	H3	<input type="checkbox"/>
	H4	<input type="checkbox"/>

ECMT

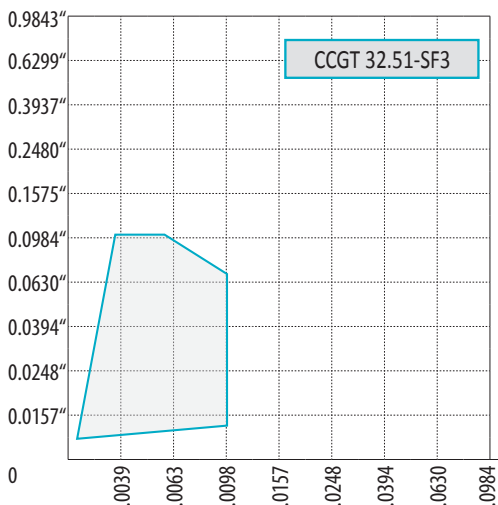
VCGT



SF3



CCGT 32.51-SF3



P	P1	<input type="checkbox"/>
	P2	<input checked="" type="checkbox"/>
	P3	<input checked="" type="checkbox"/>
	P4	<input checked="" type="checkbox"/>
M	M1	<input type="checkbox"/>
	M2	<input checked="" type="checkbox"/>
	M3	<input type="checkbox"/>
	M4	<input type="checkbox"/>
K	K1	<input checked="" type="checkbox"/>
	K2	<input checked="" type="checkbox"/>
	K3	<input checked="" type="checkbox"/>
	K4	<input checked="" type="checkbox"/>
N	N1	<input checked="" type="checkbox"/>
	N2	<input type="checkbox"/>
	N3	<input type="checkbox"/>
	N4	<input type="checkbox"/>
S	S1	<input type="checkbox"/>
	S2	<input type="checkbox"/>
	S3	<input type="checkbox"/>
	S4	<input type="checkbox"/>
H	H1	<input checked="" type="checkbox"/>
	H2	<input type="checkbox"/>
	H3	<input type="checkbox"/>
	H4	<input type="checkbox"/>

SCGT

CCGT

ECGT

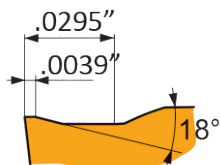
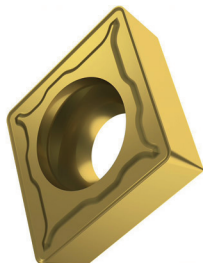
TCGT

DCGT

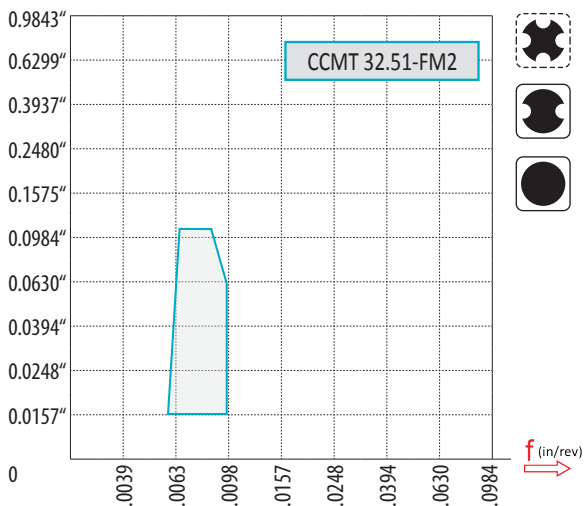
VCGT



FM2



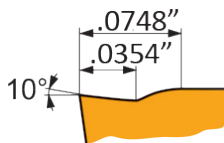
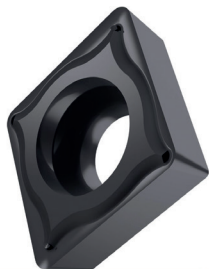
CCMT 32.51-FM2



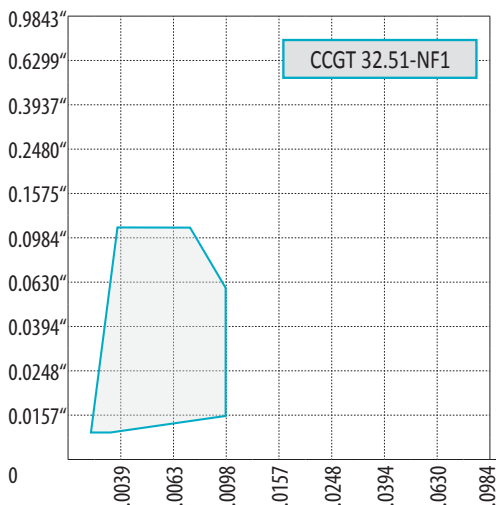
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	◻
	M4	◻
K	K1	■
	K2	■
	K3	■
	K4	■
N	N1	
	N2	
	N3	
	N4	
S	S1	
	S2	
	S3	
	S4	
H	H1	■
	H2	◻
	H3	■
	H4	◻

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

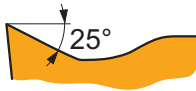
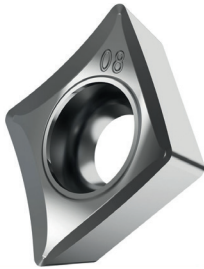
CCGT

TCGT

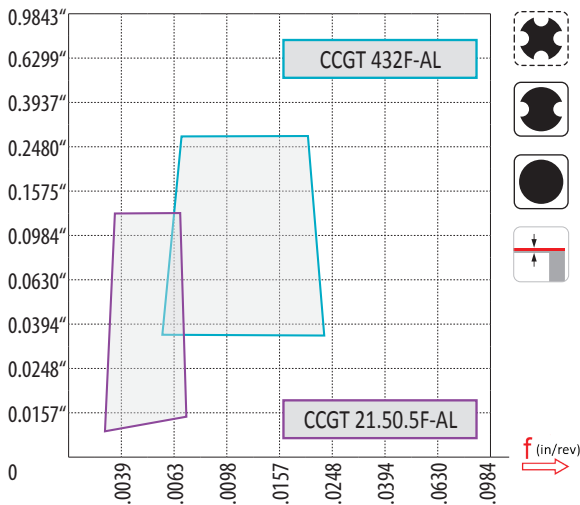
DCGT



..GT



CCGT 432F-AL



P	P1	<input checked="" type="checkbox"/>
	P2	<input checked="" type="checkbox"/>
	P3	<input checked="" type="checkbox"/>
	P4	<input checked="" type="checkbox"/>
M	M1	<input checked="" type="checkbox"/>
	M2	<input checked="" type="checkbox"/>
	M3	<input checked="" type="checkbox"/>
	M4	<input checked="" type="checkbox"/>
K	K1	<input checked="" type="checkbox"/>
	K2	<input checked="" type="checkbox"/>
	K3	<input checked="" type="checkbox"/>
	K4	<input checked="" type="checkbox"/>
N	N1	<input type="checkbox"/>
	N2	<input type="checkbox"/>
	N3	<input type="checkbox"/>
	N4	<input type="checkbox"/>
S	S1	<input checked="" type="checkbox"/>
	S2	<input checked="" type="checkbox"/>
	S3	<input checked="" type="checkbox"/>
	S4	<input checked="" type="checkbox"/>
H	H1	<input checked="" type="checkbox"/>
	H2	<input type="checkbox"/>
	H3	<input type="checkbox"/>
	H4	<input type="checkbox"/>

RCGT

SCGT

CCGT

WCGT

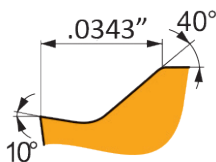
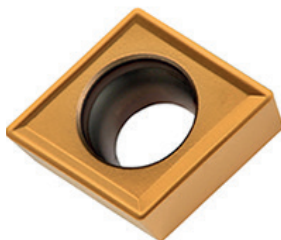
TCGT

DCGT

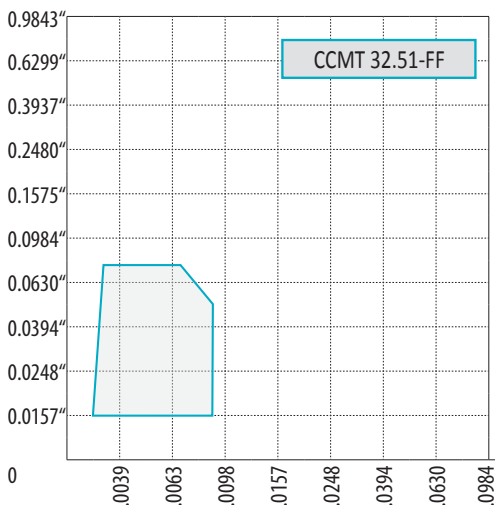
VCGT



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

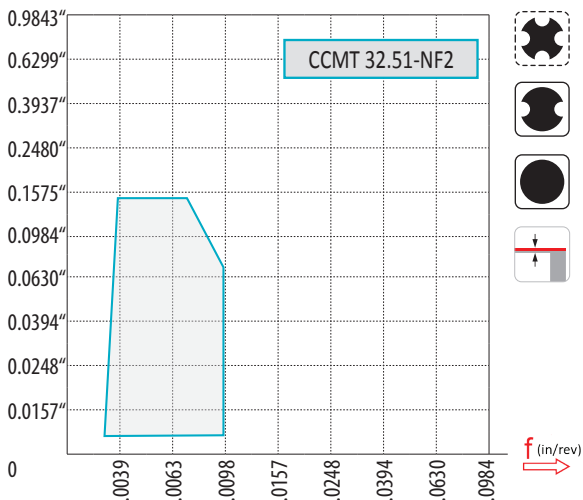
DCMT



NF2



CCMT 32.51-NF2



P	P1	<input type="checkbox"/>
	P2	<input type="checkbox"/>
	P3	<input checked="" type="checkbox"/>
	P4	<input checked="" type="checkbox"/>
M	M1	<input type="checkbox"/>
	M2	<input checked="" type="checkbox"/>
	M3	<input type="checkbox"/>
	M4	<input type="checkbox"/>
K	K1	<input checked="" type="checkbox"/>
	K2	<input checked="" type="checkbox"/>
	K3	<input type="checkbox"/>
	K4	<input checked="" type="checkbox"/>
N	N1	<input checked="" type="checkbox"/>
	N2	<input type="checkbox"/>
	N3	<input type="checkbox"/>
	N4	<input type="checkbox"/>
S	S1	<input type="checkbox"/>
	S2	<input type="checkbox"/>
	S3	<input type="checkbox"/>
	S4	<input type="checkbox"/>
H	H1	<input type="checkbox"/>
	H2	<input type="checkbox"/>
	H3	<input type="checkbox"/>
	H4	<input type="checkbox"/>

RCMT

SCMT

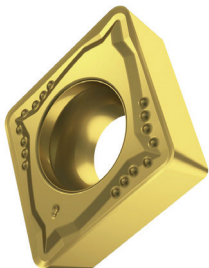
CCMT

TCMT

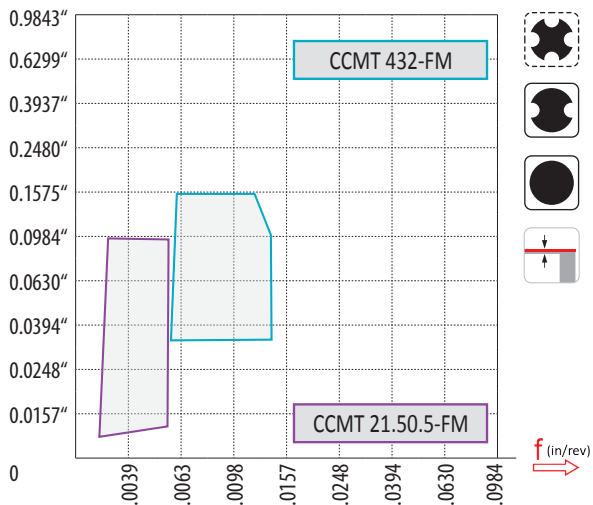
VCGT



FM



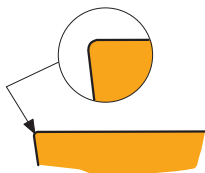
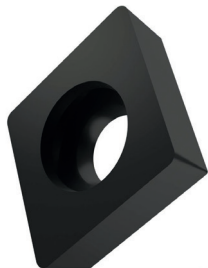
CCMT 432-FM



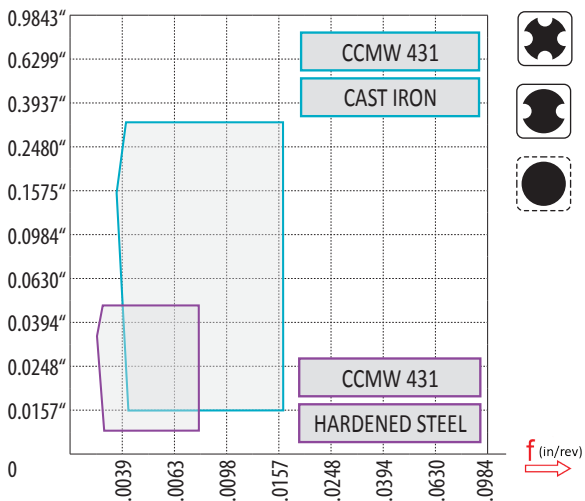
P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	▣
	M4	▣
K	K1	▣
	K2	▣
	K3	■
	K4	▣
N	N1	
	N2	
	N3	
	N4	▣
S	S1	▣
	S2	▣
	S3	
	S4	
H	H1	▣
	H2	
	H3	
	H4	

RCMT	SCMT	CCMT	WCMT	TCMT	DCMT	VBMT VCMT

...W



CCMW 432



P	P1	<input checked="" type="checkbox"/>
	P2	<input checked="" type="checkbox"/>
	P3	<input checked="" type="checkbox"/>
	P4	<input checked="" type="checkbox"/>
M	M1	
	M2	<input checked="" type="checkbox"/>
	M3	
	M4	
K	K1	<input type="checkbox"/>
	K2	<input type="checkbox"/>
	K3	<input checked="" type="checkbox"/>
	K4	<input type="checkbox"/>
N	N1	
	N2	
	N3	
	N4	
S	S1	<input checked="" type="checkbox"/>
	S2	
	S3	
	S4	
H	H1	<input checked="" type="checkbox"/>
	H2	<input type="checkbox"/>
	H3	<input type="checkbox"/>
	H4	<input type="checkbox"/>

RCMW

SCMW

CCMW

TCMW

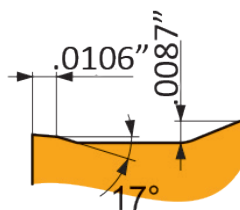
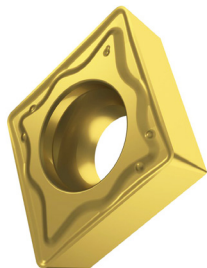
DCMW

VCMW

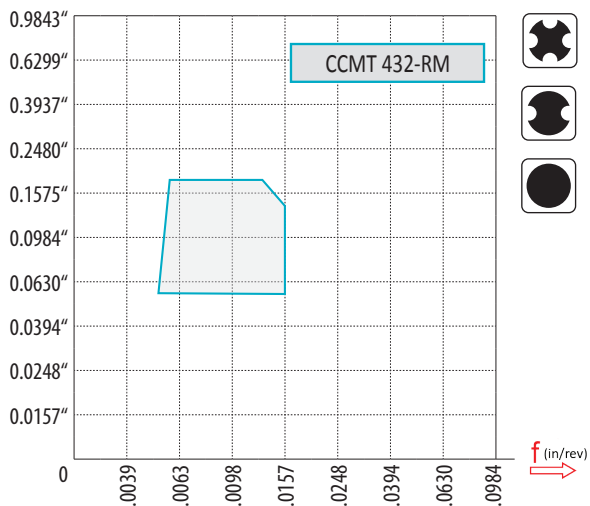
ECMT



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

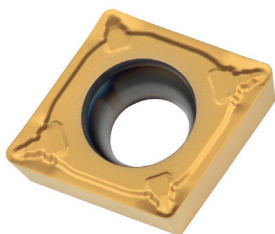
TCMT

DCMT

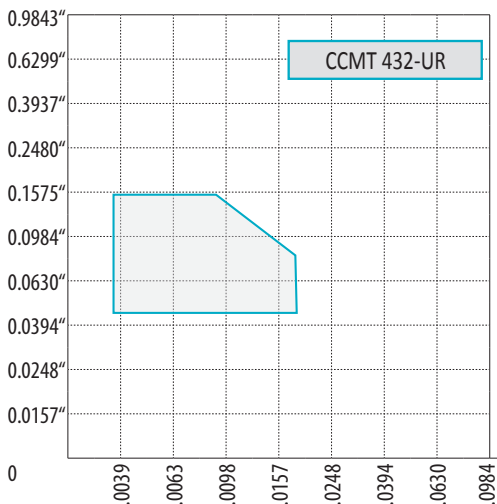
VBMT



UR

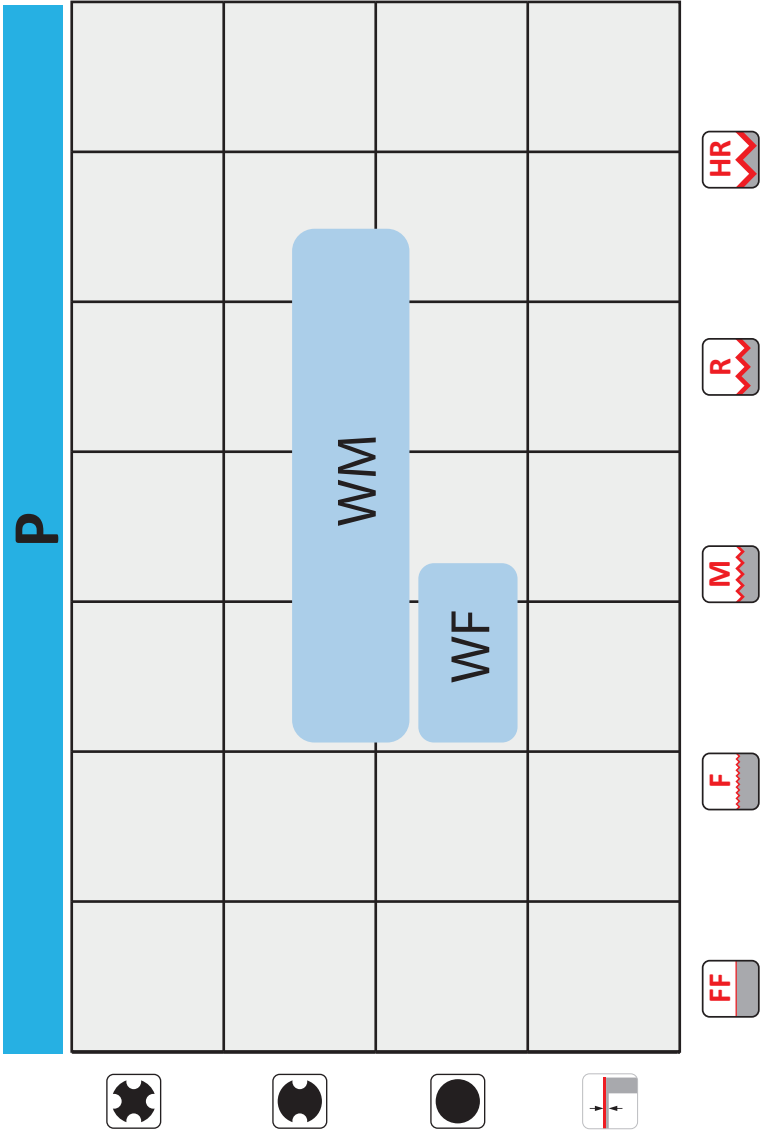


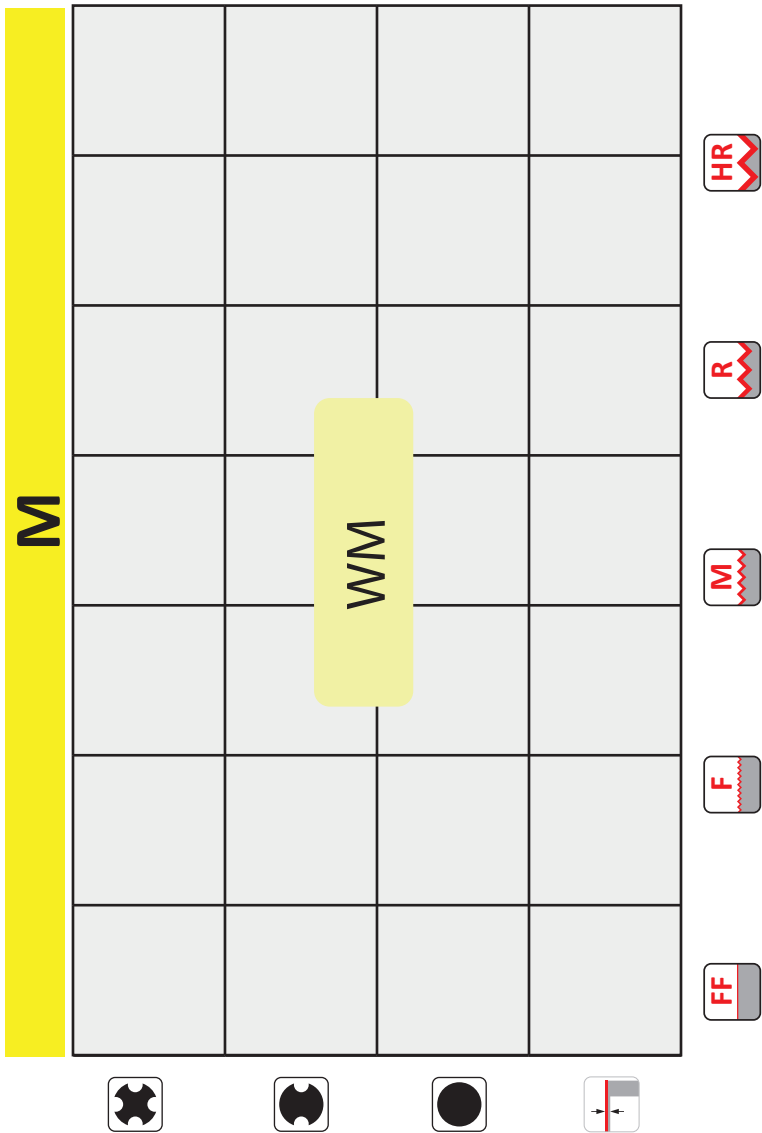
CCMT 432-UR

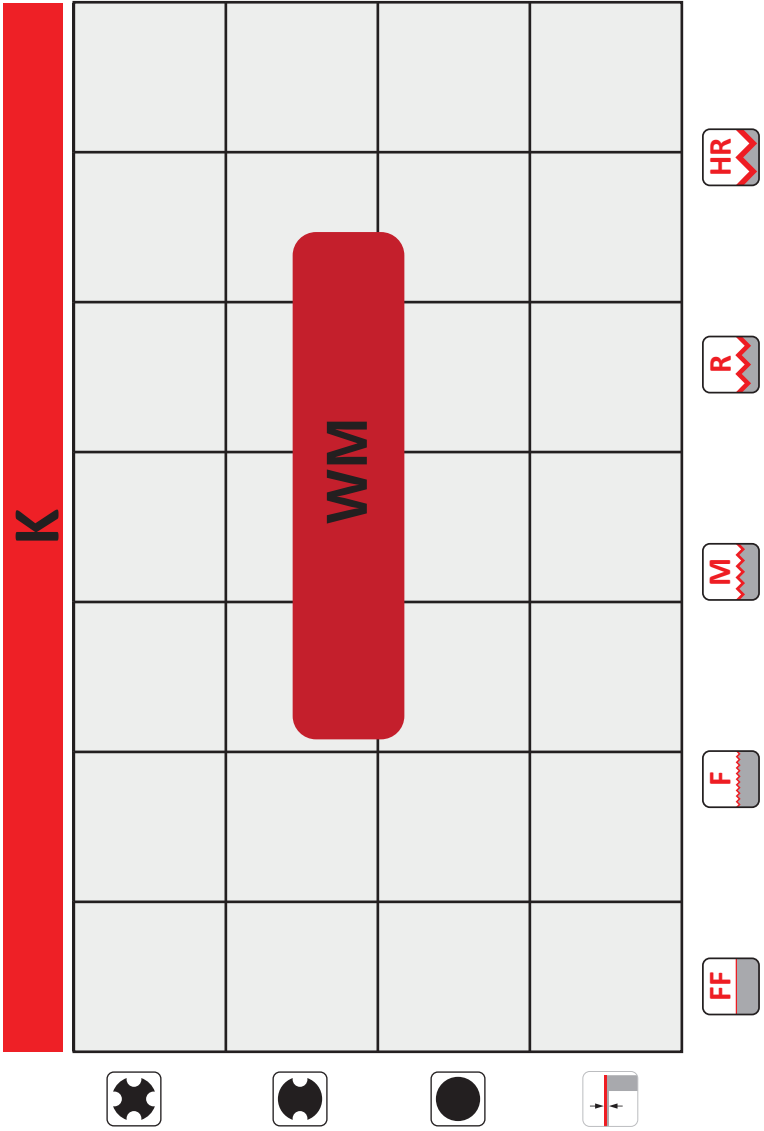


P	P1	■
	P2	■
	P3	■
	P4	■
M	M1	■
	M2	■
	M3	▣
	M4	■
K	K1	■
	K2	■
	K3	■
	K4	▣
N	N1	■
	N2	▣
	N3	■
	N4	▣
S	S1	▣
	S2	■
	S3	■
	S4	■
H	H1	■
	H2	■
	H3	■
	H4	■

RCMT	SCMT	CCMT	WCMT	TCMT	DCMT	VBMT VCMT







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.**

