

New Cermet Grade for Turning

NX3035

**Tough cermet grade can
operate reliably
in severe conditions and
maintain excellent
component surface finishes.**

- Outstanding performance provides high resistance to fracture, thermal shock and wear.
- Special alloy substrate binder allows a secure wet cutting performance.



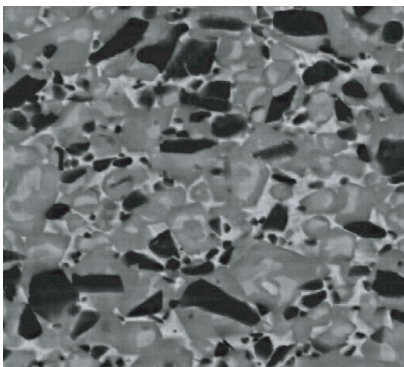
New Cermet Grade for Turning

NX3035

Features

The most advanced, all round cermet grade.
High thermal shock resistance, stable cutting and longer tool life

Cermet with a special alloy binder



NX3035

- **Highly stable cutting edge performance even during wet cutting**

The special alloy binder with increased thermal conductivity has dramatically improved the thermal shock resistance properties. This gives a highly stable cutting edge performance even when wet cutting where conventional cermet grades usually exhibit an unstable and unpredictable performance.

- **Increased stability and improved surface finishes**

The special alloy binder has improved the binding of the hard substrate particles. Abnormal damage such as thermal cracks and micro-chipping are prevented and the superior surface finishes specific to cermet grades can be maintained.

Application Range and Recommended Cutting Conditions

Application Range

ISO	Application Range
P01	
P10	
P20	
P30	

Please use NX2525 grade for dry cutting only or with non-water soluble coolant.

Recommended Cutting Conditions

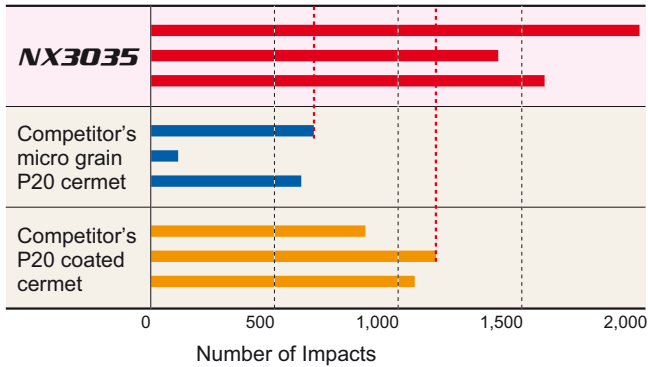
	Work Material	Hardness	Cutting Mode	Cutting Speed (m/min)
P	Mild Steel	≤180HB	General Cutting	300 (240—340)
	Carbon Steel Alloy Steel	≤180HB	General Cutting	230 (190—260)

Cutting Performance

Fracture and Thermal Shock Resistance

Wet interrupted cutting of alloy steel

NX3035 is less likely to fracture, allowing stable cutting.

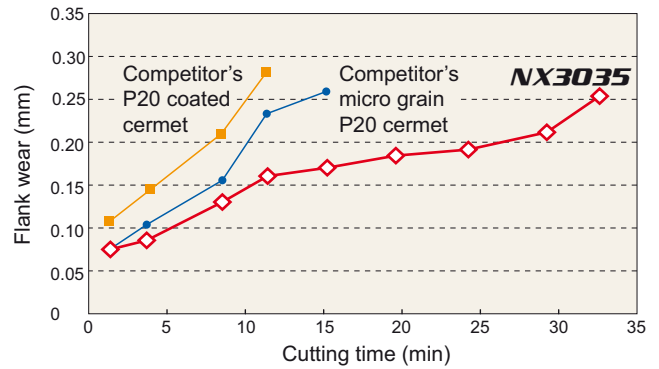


<Cutting conditions>
 Insert : CNMG120408-○○○ Coolant: W.S.O.
 Tool : PCLNR2525M12 Interrupted Cutting
 Cutting speed: 400m/min
 Feed : 0.2mm/rev
 Depth of cut : 1.5mm

Wear Resistance

Continuous cutting of carbon steel

NX3035 displays exceptional wear resistance.

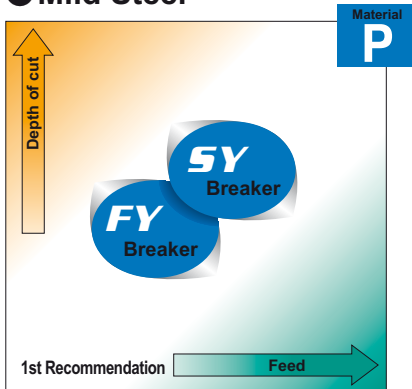


<Cutting conditions>
 Insert : CNMG120408-○○○ Coolant: W.S.O.
 Tool : PCLNR2525M12 External continuous cutting
 Cutting speed: 250m/min
 Feed : 0.15mm/rev
 Depth of cut : 1.0mm

Chipbreaker Applications

Negative Inserts For Steel

● Mild Steel



	Breaker	Features	Cross Section Geometry
1st Recommendation Chipbreaker	FY	First recommendation for finishing mild steel Double sided chipbreaker. Effectively controls adhesive chips. Suitable for mild steel finishing.	15° Flank 0.2 Nose
	SY	First recommendation for light cutting of mild steel Double sided chipbreaker. Effectively controls adhesive chips. Suitable for mild steel light cutting.	10° Flank 0.2 Nose
Alternative Chipbreaker	MS	Alternative chipbreaker for medium cutting of mild steel Double sided chipbreaker. The sharp edge gives best performance. Standard style, general purpose chipbreaker.	25° Flank 15° 0.5 Nose

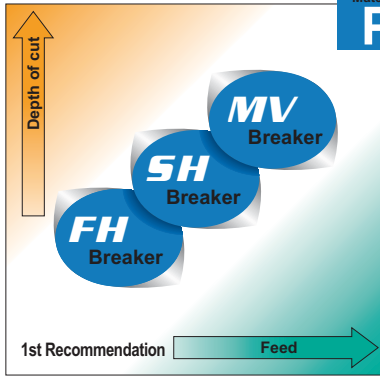
NX3035

Chipbreaker Applications

Negative Inserts For Steel

● Carbon Steel / Alloy Steel

Material
P

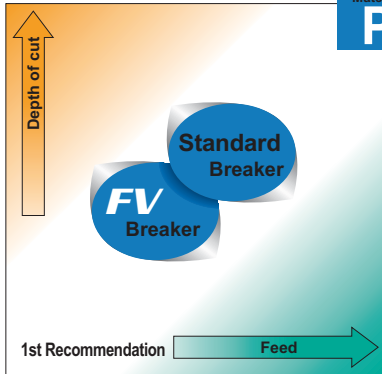


	Breaker	Features	Cross Section Geometry
1st Recommendation Chipbreaker	FH 	First recommendation for finishing general steel and alloy steel Double sided chipbreaker. Stable chip control even at small depth of cut.	
	SH 	First recommendation for light cutting of general steel and alloy steel Double sided chipbreaker. Can be used at low depths of cut at high feed rates. The curved edge allows smooth chip discharge. Recommended for workpieces in the 160–250HB range.	
	MV 	First recommendation for medium cutting of general steel and alloy steel Double sided chipbreaker. Suitable for medium to light cutting. Breaker geometry appropriate for copying and back turning. Positive land provides sharp cutting action.	
Alternative Chipbreaker	R/L-1M 	Alternative chipbreaker for light cutting of general steel and alloy steel Double sided chipbreaker. Parallel chipbreaker controls chip flow. Suitable for finish-light cutting.	
	SA 	Alternative chipbreaker for light cutting of general steel and alloy steel Double sided chipbreaker. Superior chip control at small depths of cut. Covers copying and back turning with the wavy edge. Recommended for workpieces in the 200–300HB range.	
	SW 	Wiper insert for light cutting of general steel and alloy steel Double sided chipbreaker. The wiper allows up to double the feed rate. Wiper design for increased productivity and improved surface finish.	
	MA 	Alternative chipbreaker for medium cutting of general steel and alloy steel Double sided chipbreaker. Suitable for a wide range of application areas. Positive land provides sharp cutting action.	
	Standard 	Alternative chipbreaker for medium cutting of general steel and alloy steel Double sided chipbreaker. Flat land offers high edge strength. Standard style, general purpose chipbreaker.	
	R/L-2M 	Alternative chipbreaker for medium cutting of general steel and alloy steel Double sided chipbreaker. Parallel chipbreaker controls chip flow. Suitable for light to medium cutting.	

7° Positive Inserts For Steel

Carbon Steel / Alloy Steel

Material
P

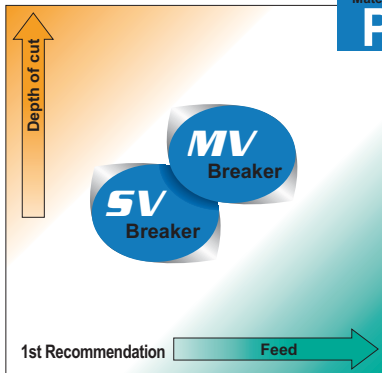


	Breaker	Features	Cross Section Geometry
1st Recommendation Chipbreaker	FV 	First recommendation for finishing general steel and alloy steel Suitable for low depths of cut and low feed rates. Sharp cutting edge and low resistance design achieves excellent cutting performance.	
	Standard 	First recommendation for medium cutting of general steel and alloy steel Balance of edge strength and sharpness due to a combination of a flat land and large rake angle.	
Alternative Chipbreaker	SV 	Alternative chipbreaker for light cutting of general steel, alloy steel and mild steel Large rake angle provides sharp cutting action. A peninsular dot ensures chip control at depths of cut under 1mm.	
	MV 	Alternative chipbreaker for light cutting of general steel, alloy steel and mild steel A positive insert and the large rake angle achieve sharp cutting edge performance. The double breakers and round shape in the rake face achieve a wide range of chip discharge.	

11° Positive Inserts For Steel

Carbon Steel / Alloy Steel

Material
P

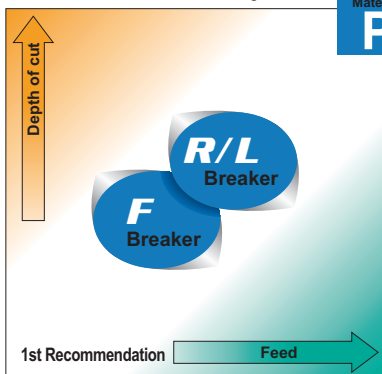


	Breaker	Features	Cross Section Geometry
1st Recommendation Chipbreaker	SV 	First recommendation for light cutting of general steel, alloy steel and mild steel Large rake angle provides sharp cutting action. A peninsular dot ensures chip control at depths of cut under 1mm.	
	MV 	First recommendation for medium cutting of general steel, alloy steel and mild steel A positive insert and large rake angle achieves sharp cutting edge performance. Double breakers in the rake face achieve a wide range of chip discharge.	

Angular And Parallel Chip Breakers (Negative Inserts)

Carbon Steel / Alloy Steel

Material
P

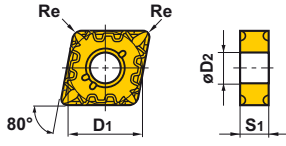

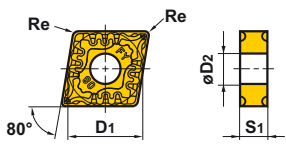


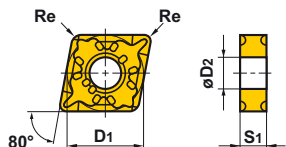


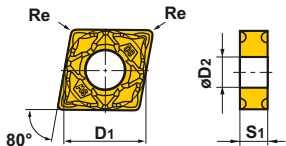

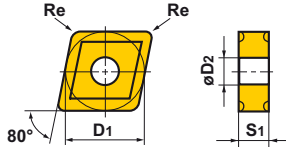
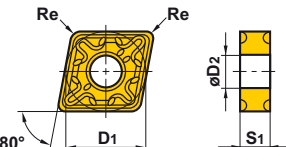



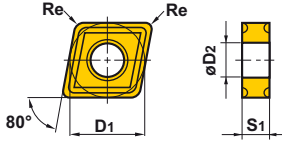

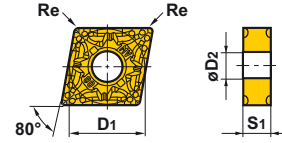

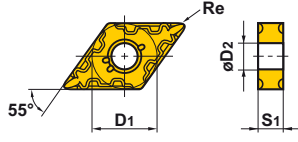

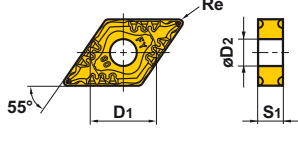

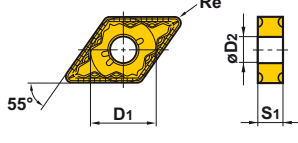

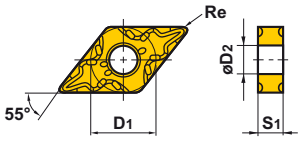

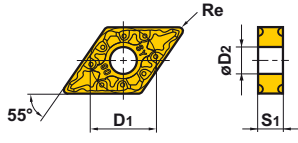

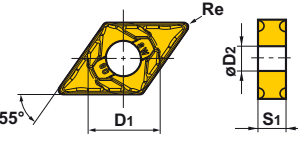
	Breaker	Features	Cross Section Geometry
1st Recommendation Chipbreaker	R/L-F 	First recommendation for finishing Double sided chipbreaker. Lead chipbreaker controls chip flow. The sharp edge produces a good surface finish.	
	R/L 	First recommendation for medium cutting Double sided chipbreaker. Parallel chipbreaker. Good chip control for medium feed rates.	

NX3035

Inserts

● Negative Inserts (With hole)


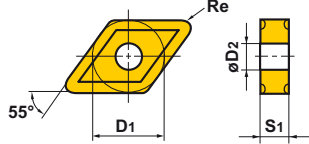

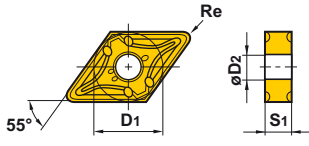

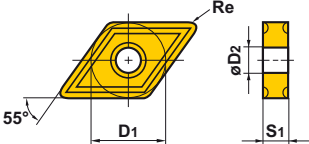

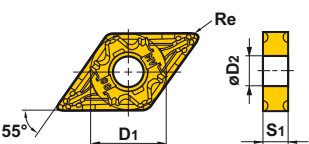

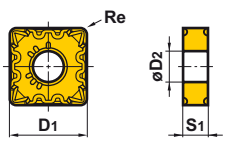

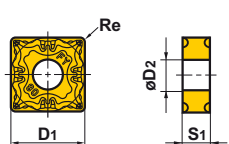

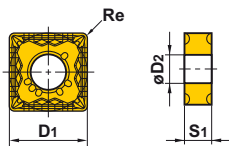

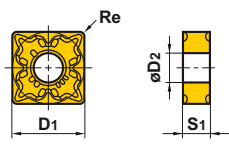
Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
FH Breaker  Finish Cutting	CNMG120404-FH	●	12.7	4.76	0.4	5.16	
	120408-FH	●	12.7	4.76	0.8	5.16	
FY Breaker  Finish Cutting	CNMG120404-FY	●	12.7	4.76	0.4	5.16	
	120408-FY	●	12.7	4.76	0.8	5.16	
SA Breaker  Light Cutting	CNMG120404-SA	●	12.7	4.76	0.4	5.16	
	120408-SA	●	12.7	4.76	0.8	5.16	
	120412-SA	★	12.7	4.76	1.2	5.16	
SH Breaker  Light Cutting	CNMG120404-SH	●	12.7	4.76	0.4	5.16	
	120408-SH	●	12.7	4.76	0.8	5.16	
	120412-SH	★	12.7	4.76	1.2	5.16	
SY Breaker  Light Cutting	CNMG120404-SY	●	12.7	4.76	0.4	5.16	
	120408-SY	●	12.7	4.76	0.8	5.16	
SW Breaker  Light Cutting (Wiper)	CNMG120404-SW	●	12.7	4.76	0.4	5.16	
	120408-SW	●	12.7	4.76	0.8	5.16	
Standard Breaker  Medium Cutting	CNMG120404	●	12.7	4.76	0.4	5.16	
	120408	●	12.7	4.76	0.8	5.16	
	120412	●	12.7	4.76	1.2	5.16	
MA Breaker  Medium Cutting	CNMG120404-MA	●	12.7	4.76	0.4	5.16	
	120408-MA	●	12.7	4.76	0.8	5.16	
	120412-MA	●	12.7	4.76	1.2	5.16	


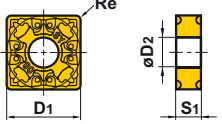

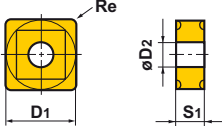

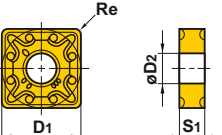

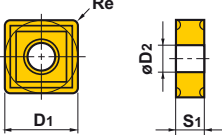

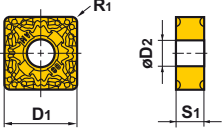

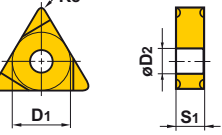

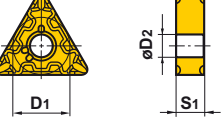

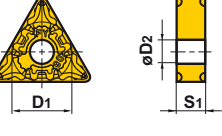
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		<i>NX3035</i>	D1	S1	Re	D2	
MS Breaker  Medium Cutting	CNMG120404-MS	★	12.7	4.76	0.4	5.16	
	120408-MS	★	12.7	4.76	0.8	5.16	
	120412-MS	★	12.7	4.76	1.2	5.16	
MV Breaker  Medium Cutting	CNMG120404-MV	●	12.7	4.76	0.4	5.16	
	120408-MV	●	12.7	4.76	0.8	5.16	
	120412-MV	●	12.7	4.76	1.2	5.16	
FH Breaker  Finish Cutting	DNMG150404-FH	●	12.7	4.76	0.4	5.16	
	150408-FH	●	12.7	4.76	0.8	5.16	
	150604-FH	●	12.7	6.35	0.4	5.16	
	150608-FH	●	12.7	6.35	0.8	5.16	
FY Breaker  Finish Cutting	DNMG150404-FY	●	12.7	4.76	0.4	5.16	
	150408-FY	●	12.7	4.76	0.8	5.16	
	150604-FY	●	12.7	6.35	0.4	5.16	
	150608-FY	●	12.7	6.35	0.8	5.16	
SA Breaker  Light Cutting	DNMG150404-SA	●	12.7	4.76	0.4	5.16	
	150408-SA	●	12.7	4.76	0.8	5.16	
	150412-SA	★	12.7	4.76	1.2	5.16	
	150604-SA	●	12.7	6.35	0.4	5.16	
	150608-SA	●	12.7	6.35	0.8	5.16	
	150612-SA	★	12.7	6.35	1.2	5.16	
SH Breaker  Light Cutting	DNMG150404-SH	●	12.7	4.76	0.4	5.16	
	150408-SH	●	12.7	4.76	0.8	5.16	
	150412-SH	★	12.7	4.76	1.2	5.16	
	150604-SH	●	12.7	6.35	0.4	5.16	
	150608-SH	●	12.7	6.35	0.8	5.16	
	150612-SH	★	12.7	6.35	1.2	5.16	
SY Breaker  Light Cutting	DNMG150404-SY	●	12.7	4.76	0.4	5.16	
	150408-SY	●	12.7	4.76	0.8	5.16	
	150604-SY	●	12.7	6.35	0.4	5.16	
	150608-SY	●	12.7	6.35	0.8	5.16	
SW Breaker  Light Cutting	DNMX150404-SW	●	12.7	4.76	0.4	5.16	
	150408-SW	●	12.7	4.76	0.8	5.16	
	150604-SW	●	12.7	6.35	0.4	5.16	
	150608-SW	●	12.7	6.35	0.8	5.16	

NX3035

Inserts

● Negative Inserts (With hole)


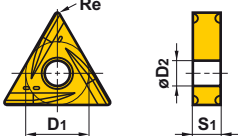

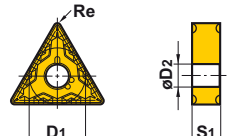

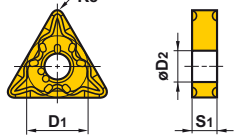

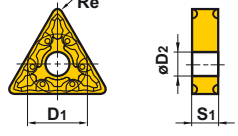

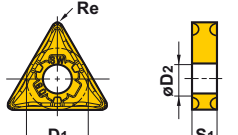

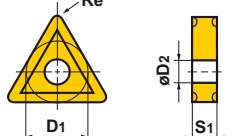

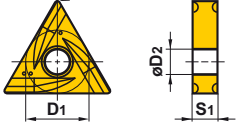
Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
Standard Breaker  Medium Cutting	DNMG150404	●	12.7	4.76	0.4	5.16	
	150408	●	12.7	4.76	0.8	5.16	
	150412	●	12.7	4.76	1.2	5.16	
	150604	●	12.7	6.35	0.4	5.16	
	150608	●	12.7	6.35	0.8	5.16	
	150612	●	12.7	6.35	1.2	5.16	
MA Breaker  Medium Cutting	DNMG150404-MA	●	12.7	4.76	0.4	5.16	
	150408-MA	●	12.7	4.76	0.8	5.16	
	150412-MA	●	12.7	4.76	1.2	5.16	
	150604-MA	●	12.7	6.35	0.4	5.16	
	150608-MA	●	12.7	6.35	0.8	5.16	
	150612-MA	●	12.7	6.35	1.2	5.16	
MS Breaker  Medium Cutting	DNMG150404-MS	★	12.7	4.76	0.4	5.16	
	150408-MS	★	12.7	4.76	0.8	5.16	
	150412-MS	★	12.7	4.76	1.2	5.16	
	150604-MS	★	12.7	6.35	0.4	5.16	
	150608-MS	★	12.7	6.35	0.8	5.16	
	150612-MS	★	12.7	6.35	1.2	5.16	
MV Breaker  Medium Cutting	DNMG150404-MV	●	12.7	4.76	0.4	5.16	
	150408-MV	●	12.7	4.76	0.8	5.16	
	150412-MV	●	12.7	4.76	1.2	5.16	
	150604-MV	●	12.7	6.35	0.4	5.16	
	150608-MV	●	12.7	6.35	0.8	5.16	
	150612-MV	●	12.7	6.35	1.2	5.16	
FH Breaker  Finish Cutting	SNMG120404-FH	●	12.7	4.76	0.4	5.16	
	120408-FH	●	12.7	4.76	0.8	5.16	
FY Breaker  Finish Cutting	SNMG120408-FY	●	12.7	4.76	0.8	5.16	
SA Breaker  Light Cutting	SNMG120404-SA	★	12.7	4.76	0.4	5.16	
	120408-SA	●	12.7	4.76	0.8	5.16	
	120412-SA	★	12.7	4.76	1.2	5.16	
SH Breaker  Light Cutting	SNMG120404-SH	●	12.7	4.76	0.4	5.16	
	120408-SH	●	12.7	4.76	0.8	5.16	
	120412-SH	★	12.7	4.76	1.2	5.16	


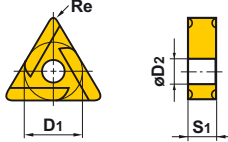
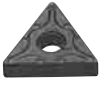
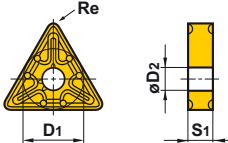

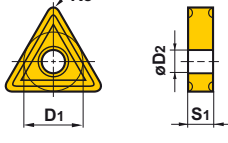

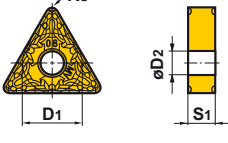

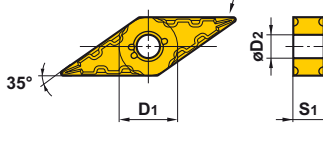
Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
SY Breaker  Light Cutting	SNMG120408-SY	●	12.7	4.76	0.8	5.16	
Standard Breaker  Medium Cutting	SNMG090304	★	9.525	3.18	0.4	3.81	
	090308	★	9.525	3.18	0.8	3.81	
	120404	●	12.7	4.76	0.4	5.16	
	120408	●	12.7	4.76	0.8	5.16	
	120412	●	12.7	4.76	1.2	5.16	
	120416	★	12.7	4.76	1.6	5.16	
MA Breaker  Medium Cutting	SNMG120404-MA	★	12.7	4.76	0.4	5.16	
	120408-MA	●	12.7	4.76	0.8	5.16	
	120412-MA	●	12.7	4.76	1.2	5.16	
MS Breaker  Medium Cutting	SNMG120404-MS	★	12.7	4.76	0.4	5.16	
	120408-MS	★	12.7	4.76	0.8	5.16	
	120412-MS	★	12.7	4.76	1.2	5.16	
MV Breaker  Medium Cutting	SNMG120404-MV	●	12.7	4.76	0.4	5.16	
	120408-MV	●	12.7	4.76	0.8	5.16	
	120412-MV	●	12.7	4.76	1.2	5.16	
R/L-F Breaker  Finish Cutting	TNGG160402R-F	●	9.525	4.76	0.2	3.81	
	160402L-F	●	9.525	4.76	0.2	3.81	
	160404R-F	●	9.525	4.76	0.4	3.81	
	160404L-F	●	9.525	4.76	0.4	3.81	
	160408R-F	★	9.525	4.76	0.8	3.81	
	160408L-F	★	9.525	4.76	0.8	3.81	
FH Breaker  Finish Cutting	TNMG160404-FH	●	9.525	4.76	0.4	3.81	
	160408-FH	●	9.525	4.76	0.8	3.81	
FY Breaker  Finish Cutting	TNMG160404-FY	●	9.525	4.76	0.4	3.81	
	160408-FY	●	9.525	4.76	0.8	3.81	

NX3035

Inserts

● Negative Inserts (With hole)


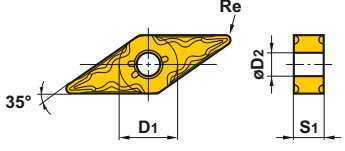

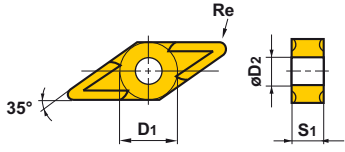

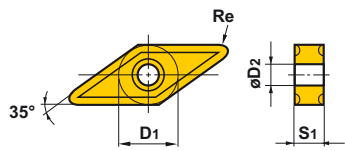

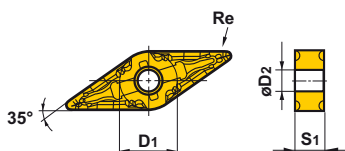

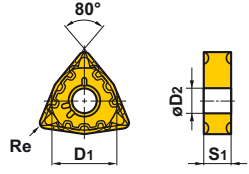

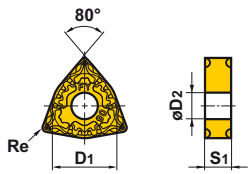

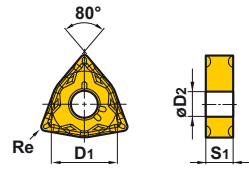

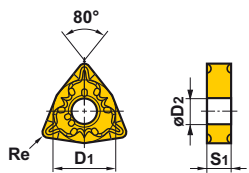
Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
R/L-1M Breaker  Light Cutting	TNMG160404R-1M	●	9.525	4.76	0.4	3.81	 Right hand insert shown.
	160404L-1M	●	9.525	4.76	0.4	3.81	
SA Breaker  Light Cutting	TNMG160404-SA	●	9.525	4.76	0.4	3.81	
	160408-SA	●	9.525	4.76	0.8	3.81	
	160412-SA	★	9.525	4.76	1.2	3.81	
SH Breaker  Light Cutting	TNMG160404-SH	●	9.525	4.76	0.4	3.81	
	160408-SH	●	9.525	4.76	0.8	3.81	
	160412-SH	★	9.525	4.76	1.2	3.81	
SY Breaker  Light Cutting	TNMG160404-SY	●	9.525	4.76	0.4	3.81	
	160408-SY	●	9.525	4.76	0.8	3.81	
SW Breaker  Light Cutting (Wiper)	TNMX160404-SW	●	9.525	4.76	0.4	3.81	
	160408-SW	●	9.525	4.76	0.8	3.81	
Standard Breaker  Medium Cutting	TNMG160404	●	9.525	4.76	0.4	3.81	
	160408	●	9.525	4.76	0.8	3.81	
	160412	●	9.525	4.76	1.2	3.81	
	160416	★	9.525	4.76	1.6	3.81	
	220404	★	12.7	4.76	0.4	5.16	
	220408	★	12.7	4.76	0.8	5.16	
R/L-2M Breaker  Medium Cutting	TNMG160404R-2M	●	9.525	4.76	0.4	3.81	 Right hand insert shown.
	160404L-2M	●	9.525	4.76	0.4	3.81	


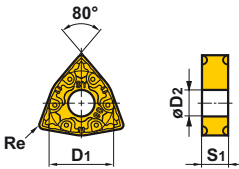

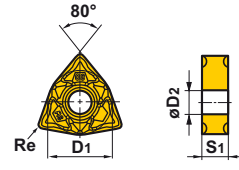

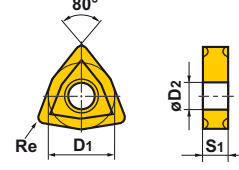

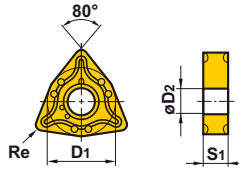

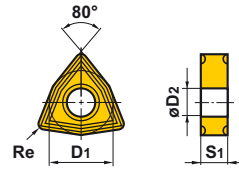

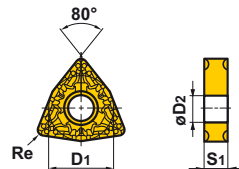
Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
R/L Breaker 	TNGG110302R	★	6.35	3.18	0.2	2.26	
	110302L	★	6.35	3.18	0.2	2.26	
	110304R	★	6.35	3.18	0.4	2.26	
	110304L	★	6.35	3.18	0.4	2.26	
	110308R	★	6.35	3.18	0.8	2.26	
	110308L	★	6.35	3.18	0.8	2.26	
	160304R	★	9.525	3.18	0.4	3.81	
	160304L	★	9.525	3.18	0.4	3.81	
	160308R	★	9.525	3.18	0.8	3.81	
	160308L	★	9.525	3.18	0.8	3.81	
	160402R	★	9.525	4.76	0.2	3.81	
	160402L	★	9.525	4.76	0.2	3.81	
	160404R	●	9.525	4.76	0.4	3.81	
	160404L	●	9.525	4.76	0.4	3.81	
	160408R	●	9.525	4.76	0.8	3.81	
	160408L	●	9.525	4.76	0.8	3.81	
	160412R	★	9.525	4.76	1.2	3.81	
	160412L	★	9.525	4.76	1.2	3.81	
	220404R	★	12.7	4.76	0.4	5.16	
	220404L	★	12.7	4.76	0.4	5.16	
220408R	★	12.7	4.76	0.8	5.16		
220408L	★	12.7	4.76	0.8	5.16		
Medium Cutting							Right hand insert shown.
MA Breaker 	TNMG160404-MA	●	9.525	4.76	0.4	3.81	
	160408-MA	●	9.525	4.76	0.8	3.81	
	160412-MA	●	9.525	4.76	1.2	3.81	
Medium Cutting							
MS Breaker 	TNMG160404-MS	★	9.525	4.76	0.4	3.81	
	160408-MS	★	9.525	4.76	0.8	3.81	
	160412-MS	★	9.525	4.76	1.2	3.81	
Medium Cutting							
MV Breaker 	TNMG160404-MV	●	9.525	4.76	0.4	3.81	
	160408-MV	●	9.525	4.76	0.8	3.81	
	160412-MV	●	9.525	4.76	1.2	3.81	
Medium Cutting							
FH Breaker 	VNMG160404-FH	●	9.525	4.76	0.4	3.81	
	160408-FH	●	9.525	4.76	0.8	3.81	
Finish Cutting							

NX3035

Inserts

● Negative Inserts (With hole)


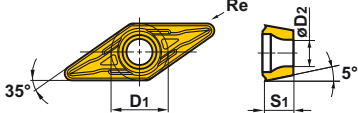

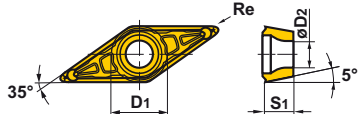

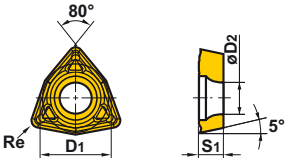
Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
SH Breaker 	VNMG160404-SH	●	9.525	4.76	0.4	3.81	
	160408-SH	●	9.525	4.76	0.8	3.81	
Light Cutting							
Standard Breaker 	VNMG160404	●	9.525	4.76	0.4	3.81	
	160408	●	9.525	4.76	0.8	3.81	
	160412	●	9.525	4.76	1.2	3.81	
Medium Cutting							
MS Breaker 	VNMG160404-MS	★	9.525	4.76	0.4	3.81	
	160408-MS	★	9.525	4.76	0.8	3.81	
Medium Cutting							
MV Breaker 	VNMG160404-MV	●	9.525	4.76	0.4	3.81	
	160408-MV	●	9.525	4.76	0.8	3.81	
Medium Cutting							
FH Breaker 	WNMG080404-FH	●	12.7	4.76	0.4	5.16	
	080408-FH	●	12.7	4.76	0.8	5.16	
Finish Cutting							
FY Breaker 	WNMG080404-FY	●	12.7	4.76	0.4	5.16	
	080408-FY	●	12.7	4.76	0.8	5.16	
Finish Cutting							
SA Breaker 	WNMG080404-SA	●	12.7	4.76	0.4	5.16	
	080408-SA	●	12.7	4.76	0.8	5.16	
	080412-SA	★	12.7	4.76	1.2	5.16	
Light Cutting							
SH Breaker 	WNMG080404-SH	●	12.7	4.76	0.4	5.16	
	080408-SH	●	12.7	4.76	0.8	5.16	
	080412-SH	★	12.7	4.76	1.2	5.16	
Light Cutting							

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
SY Breaker  Light Cutting	WNMG080404-SY	●	12.7	4.76	0.4	5.16	
	080408-SY	●	12.7	4.76	0.8	5.16	
SW Breaker  Light Cutting (Wiper)	WNMG080404-SW	●	12.7	4.76	0.4	5.16	
	080408-SW	●	12.7	4.76	0.8	5.16	
Standard Breaker  Medium Cutting	WNMG080404	●	12.7	4.76	0.4	5.16	
	080408	●	12.7	4.76	0.8	5.16	
	080412	●	12.7	4.76	1.2	5.16	
MA Breaker  Medium Cutting	WNMG080404-MA	●	12.7	4.76	0.4	5.16	
	080408-MA	●	12.7	4.76	0.8	5.16	
	080412-MA	●	12.7	4.76	1.2	5.16	
MS Breaker  Medium Cutting	WNMG080404-MS	★	12.7	4.76	0.4	5.16	
	080408-MS	★	12.7	4.76	0.8	5.16	
	080412-MS	★	12.7	4.76	1.2	5.16	
MV Breaker  Medium Cutting	WNMG080404-MV	●	12.7	4.76	0.4	5.16	
	080408-MV	●	12.7	4.76	0.8	5.16	
	080412-MV	●	12.7	4.76	1.2	5.16	


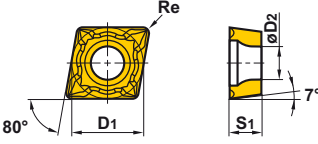

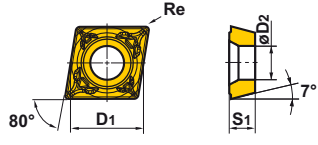

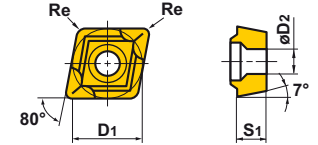

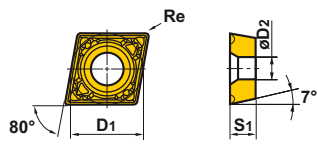

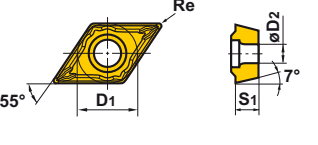

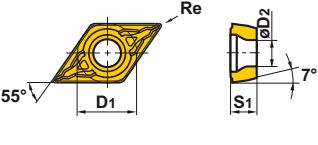

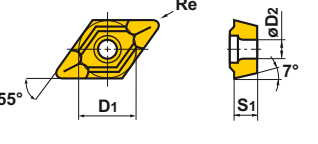
NX3035

Inserts

● 5° Positive Inserts

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
SV Breaker  Light Cutting	VBMT110304-SV	●	6.35	3.18	0.4	2.85	
	110308-SV	●	6.35	3.18	0.8	2.85	
	160404-SV	●	9.525	4.76	0.4	4.43	
	160408-SV	●	9.525	4.76	0.8	4.43	
MV Breaker  Medium Cutting	VBMT110304-MV	●	6.35	3.18	0.4	2.85	
	110308-MV	●	6.35	3.18	0.8	2.85	
	160404-MV	●	9.525	4.76	0.4	4.43	
	160408-MV	●	9.525	4.76	0.8	4.43	
R/L-MV Breaker  Medium Cutting	WBMTL30202R-MV	●	4.76	2.38	0.2	2.3	 Right hand insert shown.
	L30202L-MV	●	4.76	2.38	0.2	2.3	
	L30204R-MV	●	4.76	2.38	0.4	2.3	
	L30204L-MV	●	4.76	2.38	0.4	2.3	


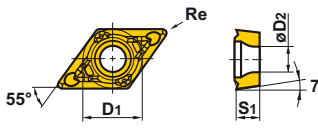

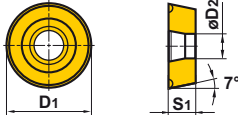

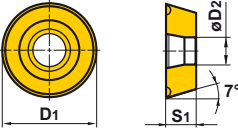

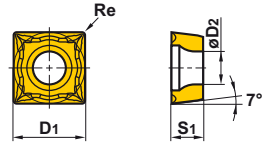

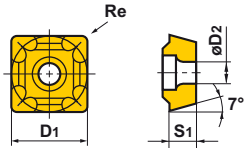

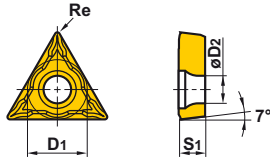

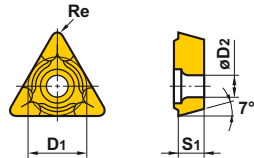
● 7° Positive Inserts


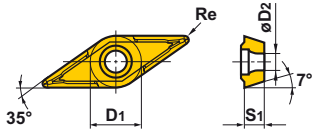

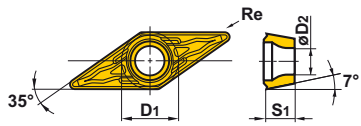

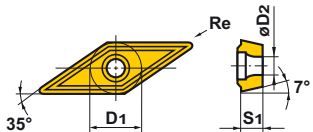

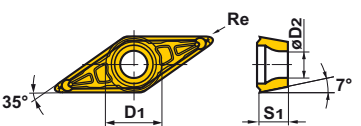

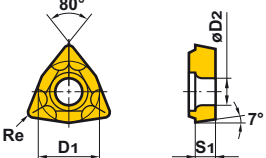
Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
FV Breaker  Finish Cutting	CCMT060202-FV	●	6.35	2.38	0.2	2.8	
	060204-FV	●	6.35	2.38	0.4	2.8	
	09T304-FV	●	9.525	3.97	0.4	4.4	
	09T308-FV	●	9.525	3.97	0.8	4.4	
SV Breaker  Light Cutting	CCMH060202-SV	●	6.35	2.38	0.2	2.8	
	060204-SV	●	6.35	2.38	0.4	2.8	
Standard Breaker  Medium Cutting	CCMT060202	●	6.35	2.38	0.2	2.8	
	060204	●	6.35	2.38	0.4	2.8	
	080304	●	7.94	3.18	0.4	3.4	
	09T302	●	9.525	3.97	0.2	4.4	
	09T304	●	9.525	3.97	0.4	4.4	
	09T308	●	9.525	3.97	0.8	4.4	
	120404	●	12.7	4.76	0.4	5.5	
	120408	●	12.7	4.76	0.8	5.5	
120412	★	12.7	4.76	1.2	5.5		
MV Breaker  Medium Cutting	CCMH060202-MV	●	6.35	2.38	0.2	2.8	
	060204-MV	●	6.35	2.38	0.4	2.8	
FV Breaker  Finish Cutting	DCMT070202-FV	●	6.35	2.38	0.2	2.8	
	070204-FV	●	6.35	2.38	0.4	2.8	
	11T304-FV	●	9.525	3.97	0.4	4.4	
	11T308-FV	●	9.525	3.97	0.8	4.4	
SV Breaker  Light Cutting	DCMT070202-SV	●	6.35	2.38	0.2	2.8	
	070204-SV	●	6.35	2.38	0.4	2.8	
	070208-SV	●	6.35	2.38	0.8	2.8	
	11T302-SV	●	9.525	3.97	0.2	4.4	
	11T304-SV	●	9.525	3.97	0.4	4.4	
	11T308-SV	●	9.525	3.97	0.8	4.4	
Standard Breaker  Medium Cutting	DCMT070202	●	6.35	2.38	0.2	2.8	
	070204	●	6.35	2.38	0.4	2.8	
	070208	●	6.35	2.38	0.8	2.8	
	11T302	●	9.525	3.97	0.2	4.4	
	11T304	●	9.525	3.97	0.4	4.4	
	11T308	●	9.525	3.97	0.8	4.4	
	150404	●	12.7	4.76	0.4	5.5	
	150408	●	12.7	4.76	0.8	5.5	

NX3035

Inserts

● 7° Positive Inserts (With hole)


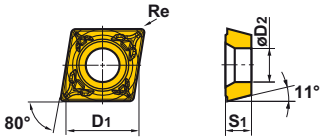

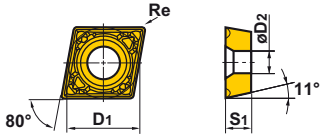

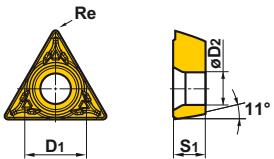

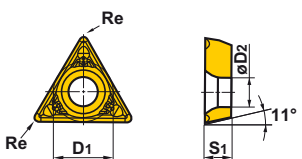

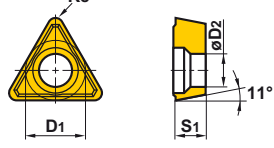

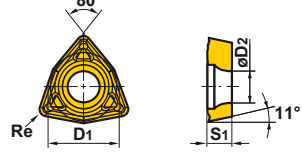
Shape	Order Number	Stock	Dimensions (mm)				Geometry
		NX3035	D1	S1	Re	D2	
MV Breaker  Medium Cutting	DCMT070202-MV	●	6.35	2.38	0.2	2.8	
	070204-MV	●	6.35	2.38	0.4	2.8	
	070208-MV	●	6.35	2.38	0.8	2.8	
	11T302-MV	●	9.525	3.97	0.2	4.4	
	11T304-MV	●	9.525	3.97	0.4	4.4	
	11T308-MV	●	9.525	3.97	0.8	4.4	
Standard Breaker  Medium Cutting	RCMT0602M0	●	6	2.38	—	2.8	
	0803M0	●	8	3.18	—	3.4	
Standard Breaker  Medium Cutting	RCMX1003M0	★	10	3.18	—	3.6	
	1204M0	●	12	4.76	—	4.2	
FV Breaker  Finish Cutting	SCMT09T304-FV	●	9.525	3.97	0.4	4.4	
Standard Breaker  Medium Cutting	SCMT09T304	●	9.525	3.97	0.4	4.4	
	09T308	●	9.525	3.97	0.8	4.4	
	120404	●	12.7	4.76	0.4	5.5	
	120408	●	12.7	4.76	0.8	5.5	
FV Breaker  Finish Cutting	TCMT110204-FV	●	6.35	2.38	0.4	2.8	
	16T304-FV	●	9.525	3.97	0.4	4.4	
Standard Breaker  Medium Cutting	TCMT080204	●	4.76	2.38	0.4	2.3	
	090204	●	5.56	2.38	0.4	2.5	
	110202	●	6.35	2.38	0.2	2.8	
	110204	●	6.35	2.38	0.4	2.8	
	130302	●	7.94	3.18	0.2	3.4	
	130304	●	7.94	3.18	0.4	3.4	
	16T304	●	9.525	3.97	0.4	4.4	
	16T308	●	9.525	3.97	0.8	4.4	

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
FV Breaker  Finish Cutting	VCMT160404-FV	●	9.525	4.76	0.4	4.4	
	160408-FV	●	9.525	4.76	0.8	4.4	
SV Breaker  Light Cutting	VCMT080202-SV	●	4.76	2.38	0.2	2.9	
	080204-SV	●	4.76	2.38	0.4	2.9	
Standard Breaker  Medium Cutting	VCMT110304	●	6.35	3.18	0.4	2.8	
	160404	●	9.525	4.76	0.4	4.4	
	160408	●	9.525	4.76	0.8	4.4	
	160412	●	9.525	4.76	1.2	4.4	
MV Breaker  Medium Cutting	VCMT080202-MV	●	4.76	2.38	0.2	2.9	
	080204-MV	●	4.76	2.38	0.4	2.9	
Standard Breaker  Medium Cutting	WCMT020102	●	3.97	1.59	0.2	2.3	
	020104	●	3.97	1.59	0.4	2.3	
	L30202	●	4.76	2.38	0.2	2.3	
	L30204	●	4.76	2.38	0.4	2.3	
	040202	●	6.35	2.38	0.2	2.8	
	040204	●	6.35	2.38	0.4	2.8	
	06T304	●	9.525	3.97	0.4	4.4	
	06T308	●	9.525	3.97	0.8	4.4	


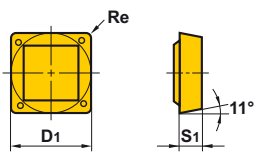

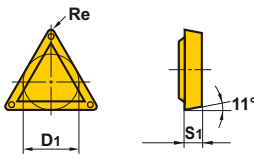
NX3035

Inserts

● 11° Positive Inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
SV Breaker  Light Cutting	CPMH080202-SV	●	7.94	2.38	0.2	3.5	
	080204-SV	●	7.94	2.38	0.4	3.5	
	090302-SV	●	9.525	3.18	0.2	4.5	
	090304-SV	●	9.525	3.18	0.4	4.5	
	090308-SV	●	9.525	3.18	0.8	4.5	
MV Breaker  Medium Cutting	CPMH080204-MV	●	7.94	2.38	0.4	3.5	
	080208-MV	●	7.94	2.38	0.8	3.5	
	090304-MV	●	9.525	3.18	0.4	4.5	
	090308-MV	●	9.525	3.18	0.8	4.5	
SV Breaker  Light Cutting	TPMH080202-SV	●	4.76	2.38	0.2	2.4	
	080204-SV	●	4.76	2.38	0.4	2.4	
	090202-SV	●	5.56	2.38	0.2	2.9	
	090204-SV	●	5.56	2.38	0.4	2.9	
	110302-SV	●	6.35	3.18	0.2	3.4	
	110304-SV	●	6.35	3.18	0.4	3.4	
	110308-SV	●	6.35	3.18	0.8	3.4	
	160302-SV	●	9.525	3.18	0.2	4.4	
	160304-SV	●	9.525	3.18	0.4	4.4	
160308-SV	●	9.525	3.18	0.8	4.4		
MV Breaker  Medium Cutting	TPMH080202-MV	●	4.76	2.38	0.2	2.4	
	080204-MV	●	4.76	2.38	0.4	2.4	
	090202-MV	●	5.56	2.38	0.2	2.9	
	090204-MV	●	5.56	2.38	0.4	2.9	
	090208-MV	●	5.56	2.38	0.8	2.9	
	110302-MV	●	6.35	3.18	0.2	3.4	
	110304-MV	●	6.35	3.18	0.4	3.4	
	110308-MV	●	6.35	3.18	0.8	3.4	
	160304-MV	●	9.525	3.18	0.4	4.4	
160308-MV	●	9.525	3.18	0.8	4.4		
Standard Breaker  Medium Cutting	TPMX110304	★	6.35	3.18	0.4	3.5	
	110308	★	6.35	3.18	0.8	3.5	
MV Breaker  Medium Cutting	WPMT040202-MV	●	6.35	2.38	0.2	2.8	
	040204-MV	●	6.35	2.38	0.4	2.8	
	060304-MV	●	9.525	3.18	0.4	4.4	
	060308-MV	●	9.525	3.18	0.8	4.4	

● 11° Positive Inserts (Without hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>NX3035</i>	D1	S1	Re	D2	
Standard Breaker  Light to Medium Cutting	SPMR090304	★	9.525	3.18	0.4	—	
	090308	●	9.525	3.18	0.8	—	
	120304	●	12.7	3.18	0.4	—	
	120308	●	12.7	3.18	0.8	—	
Standard Breaker  Light to Medium Cutting	TPMR090202	●	5.56	2.38	0.2	—	
	090204	●	5.56	2.38	0.4	—	
	090208	★	5.56	2.38	0.8	—	
	110302	●	6.35	3.18	0.2	—	
	110304	●	6.35	3.18	0.4	—	
	110308	●	6.35	3.18	0.8	—	
	160304	●	9.525	3.18	0.4	—	
	160308	★	9.525	3.18	0.8	—	
160312	★	9.525	3.18	1.2	—		



www.mitsubishicarbide.com

MMC HARTMETALL GmbH

Comeniusstr. 2, 40670 Meerbusch, Germany
Tel. +49-2159-91890 Fax +49-2159-918966
e-mail marketing@mmchg.de

MMC HARDMETAL U.K. LTD.

Mitsubishi House, Galena Close, Tamworth, B77 4AS, U.K.
Tel. +44-1827-312312 Fax +44-1827-312314
e-mail sales@mitsubishicarbide.co.uk

MMC METAL FRANCE S.A.R.L.

6, rue Jacques Monod, 91893 Orsay Cedex, France
Tel. +33-1-69 35 53 53 Fax +33-1-69 35 53 50
e-mail mmfsales@mmc-metal-france.fr

MITSUBISHI MATERIALS ESPAÑA, S.A.

C/Emperador 2, 46136 Museros, Valencia, Spain
Tel. +34-96-144-1711 Fax +34-96-144-3786
e-mail mme@mmevalencia.com

MMC ITALIA S.r.l.

V.le delle Industrie 20/5, 20020 Arese (Mi)
Tel. +39-02 93 77 03 1 Fax +39-02 93 58 90 93
e-mail info@mmc-italia.it

MMC HARDMETAL POLAND Sp. z o.o.

Armii Karjowej 61, Wroclaw, Poland
Tel. +48-71-3351-620 Fax +48-71-3351-620
e-mail mmc@mhpl.pl

MITSUBISHI HARDMETAL RUSSIA OOO LTD.

ul. Bolschaja Pochtovaja, d.36, str.1 105082 Moscow, Russia
Tel. +007-095-72558-85 Fax +007-095-72558-85
e-mail mmc-moscow@lescom.ru