

mitsubishi

MITSUBISHI CARBIDE

B061E

CVD coated grade for cast iron.

UC5105 UC5115

**High technology grade for
efficient turning of cast iron.**

**Inserts suitable for steel turning
now available.**

**The latest smooth coating
technology ensuring
stable, reliable cutting.**

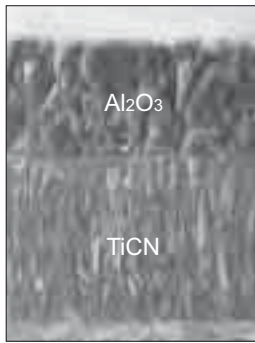


New CVD coated grade for turning of cast iron and ductile cast iron

UC5105/UC5115

Features

Newly developed “All-Black Super-Even Coat”



Structure of UC5105/UC5115

Improved wear resistance

Dramatically increased wear resistance due to the thick Al₂O₃ (Aluminium oxide), and the strong, fibrous TiCN (Titanium Carbo Nitride) coating layers.

Improved chipping resistance

The new, smoother-than-normal surface coating prevents welding and edge chipping to allow reliable and stable cutting.

UC5105

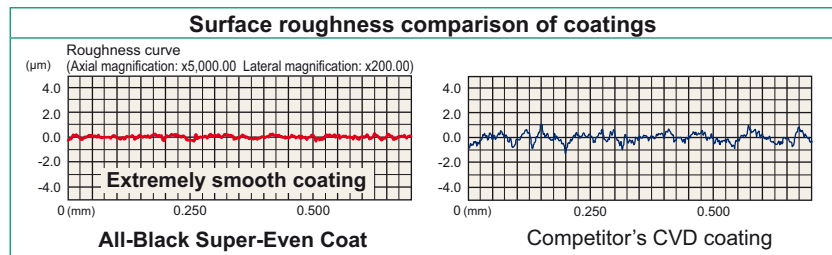
With a very **hard** carbide substrate and “All-Black Super-Even Coat.”

Effective for high-speed turning of cast and ductile cast iron.

UC5115

With a very **tough** carbide substrate and “All-Black Super-Even Coat.”

The first recommended grade for general turning of cast iron, ductile cast iron and steel.



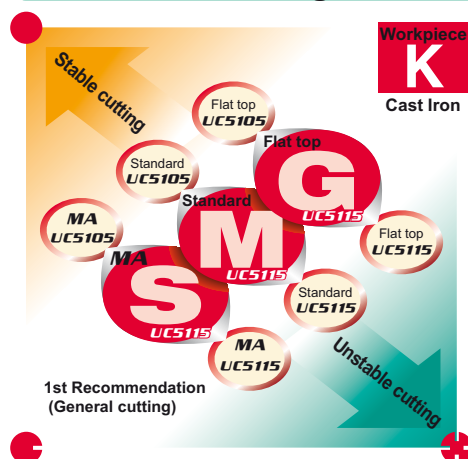
Application Range and Recommended Cutting Conditions

TOOL NAVI SYSTEM

UC5105 with high wear resistance for continuous and high speed turning

UC5115 with an excellent balance of toughness and wear resistance. Also extremely suitable for long life, high-speed continuous turning of steel.

Negative inserts for cast iron and ductile cast iron



Cutting conditions

- Stable cutting** (Red circle): Continuous cutting, Constant depth cutting, Pre-machined, Securely clamped component cutting
- General cutting** (Red circle with dot):
- Unstable cutting** (Red circle with cross): Heavy interrupted cutting, Irregular depth cutting, Low clamping rigidity

Cutting area

- S** Light cutting (ap=0.5–1.5mm)
- M** Medium cutting (ap=1.5–4.0mm)
- G** Semi-heavy cutting (ap=4.0–7.0mm)

Application range






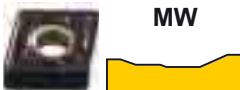
ISO	Grey cast iron, Ductile cast iron
K01	
K10	
K20	
K30	

Recommended cutting conditions





Workpiece	Tensile strength	Recommended cutting speed (m/min)	
		UC5105	UC5115
K Grey cast iron	≤300MPa	300 (200–400)	250 (150–300)
	≤450MPa	300 (200–400)	250 (150–300)
P Ductile cast iron	500–800MPa	230 (180–300)	200 (150–250)
	180–280HB	–	300 (220–370)

Chip breaker range for UC5115

For Cast Iron Cutting

For Light Cutting		For General Cutting	
Breaker description MA 	Positive land for sharp cutting action.	Breaker description Standard 	Flat land gives high cutting edge strength.
For Rough and Interrupted Cutting		For Semi-heavy Cutting	
Breaker description Flat Top 	Most effective for unstable machining because of the high edge strength.	Breaker description GH 	Suitable for interrupted cutting and removing scale. For high feed cutting due to a combination of a wide land and large chip pocket.
For Efficient Light Cutting		For Efficient General Cutting	
Breaker description SW 	With a wiper geometry for high feed rates in the light cutting application area.	Breaker description MW 	With a wiper geometry for high feed cutting in any application area.

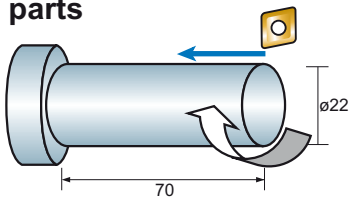
For Steel Cutting

For General Cutting		For General Cutting	
Breaker description MA 	Positive land gives a sharp cutting action. Good chip control in any application area.	Breaker description MH 	Flat land gives high cutting edge strength. Good chip control in any application area.
For General Cutting		For Light Cutting	
Breaker description MV 	Positive land gives a sharp cutting action. Chip breaker geometry suitable for copying and back turning. Good chip control in any application area.	Breaker description SH 	Positive land for a sharp cutting action. Good chip control in the light cutting application area.

Cutting Performance of UC5105 / UC5115

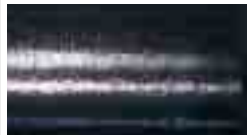
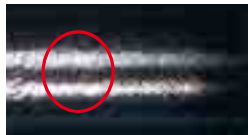
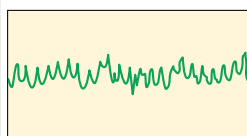

Improved Surface Finish

Continuous cutting of low rigidity, cast iron parts



A combination of the UC51 grade and the MA chip breaker achieves a good surface finish when machining small diameter, cast iron parts!

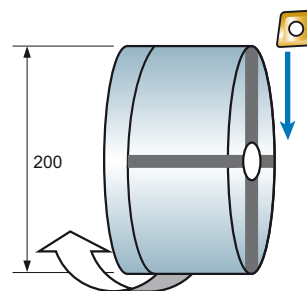
<Cutting conditions>
 Insert : UC5115
 CNMG120408-00
 Tool : PCLNL2525M12
 Cutting speed : 150m/min
 Feed : 0.2mm/rev
 Depth of cut : 1.0mm
 Coolant : Wet cutting
 External continuous cutting

	MA	Standard
Comparison of machined surface finishes		Chatter marks 
Comparison of machined surface measurement		Rough surface finish 

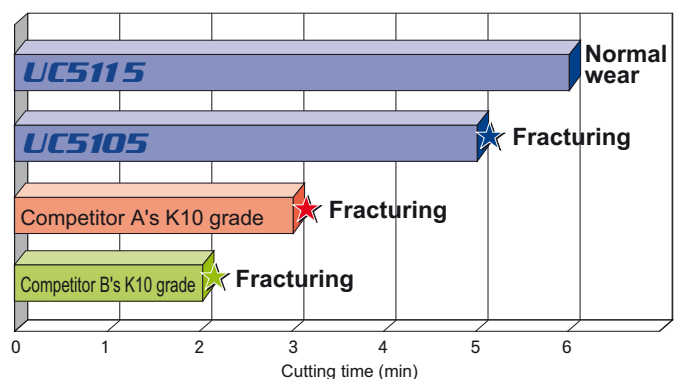
Fracture Resistance

Interrupted facing of ductile cast iron (DIN GGG45)

UC5115 displays exceptional chipping resistance with an extremely reliable cutting edge!




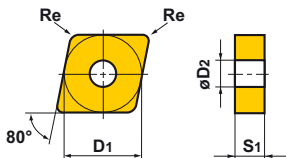

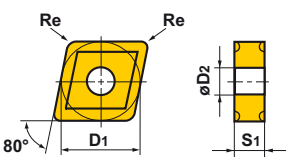

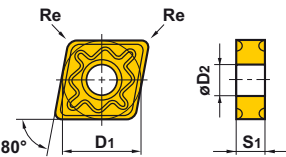

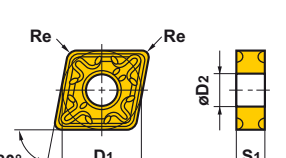

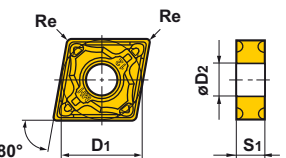
<Cutting conditions>
 Insert : CNMA120408
 Tool : PCLNL2525M12
 Cutting speed: 120m/min
 Feed : 0.3mm/rev
 Depth of cut : 1.5mm
 Coolant : Wet cutting




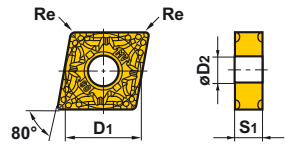

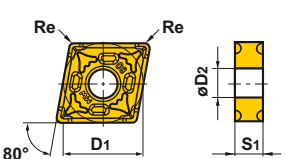

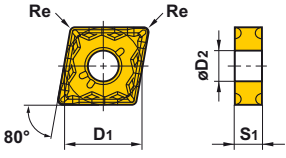

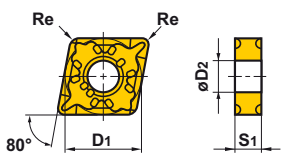

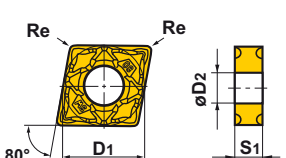

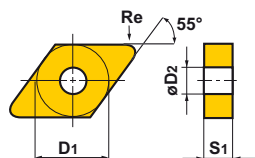

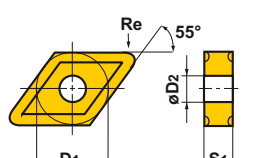
UC5105/UC5115

Inserts

● Negative Insert (With hole)

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
Flat Top 	CNMA120404	●	●	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	
	160612	●	●	15.875	6.35	1.2	6.35	
	160616	●	●	15.875	6.35	1.6	6.35	
	190612	●	●	19.05	6.35	1.2	7.93	
	190616	●	●	19.05	6.35	1.6	7.93	
Standard Breaker 	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	
	120416	●	●	12.7	4.76	1.6	5.16	
	160612	●	●	15.875	6.35	1.2	6.35	
	160616	●	●	15.875	6.35	1.6	6.35	
	190608		□	19.05	6.35	0.8	7.93	
	190612	★	★	19.05	6.35	1.2	7.93	
Medium Cutting	190616	★	★	19.05	6.35	1.6	7.93	
GH Breaker 	CNMG120408-GH	●	●	12.7	4.76	0.8	5.16	
	120412-GH	●	●	12.7	4.76	1.2	5.16	
	120416-GH	●	●	12.7	4.76	1.6	5.16	
	160612-GH	●	●	15.875	6.35	1.2	6.35	
	160616-GH	●	●	15.875	6.35	1.6	6.35	
	190612-GH	★	★	19.05	6.35	1.2	7.93	
	Semi-Heavy Cutting	190616-GH	★	★	19.05	6.35	1.6	
MA Breaker 	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	
	120416-MA	●	●	12.7	4.76	1.6	5.16	
	NEW 160608-MA		□	15.875	6.35	0.8	6.35	
	160612-MA	●	●	15.875	6.35	1.2	6.35	
	160616-MA	●	●	15.875	6.35	1.6	6.35	
	190612-MA	●	●	19.05	6.35	1.2	7.93	
Medium Cutting	190616-MA	●	●	19.05	6.35	1.6	7.93	
MH Breaker 	NEW CNMG120404-MH		□	12.7	4.76	0.4	5.16	
	NEW 120408-MH		●	12.7	4.76	0.8	5.16	
	NEW 120412-MH		●	12.7	4.76	1.2	5.16	
	NEW 120416-MH		●	12.7	4.76	1.6	5.16	
	NEW 160608-MH		□	15.875	6.35	0.8	6.35	
	NEW 160612-MH		●	15.875	6.35	1.2	6.35	
	NEW 160616-MH		●	15.875	6.35	1.6	6.35	
	NEW 190612-MH		□	19.05	6.35	1.2	7.93	
	Medium Cutting	NEW 190616-MH		□	19.05	6.35	1.6	


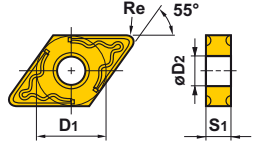

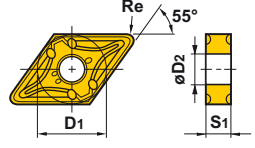

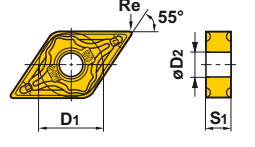

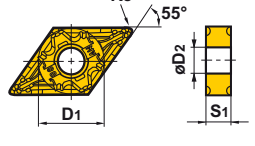

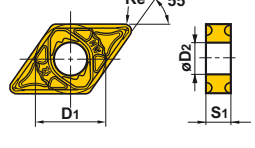

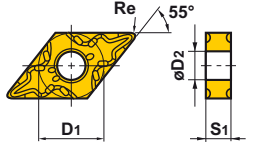

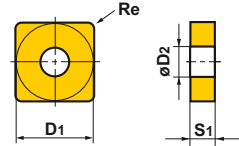
● : Inventory maintained. ★ : Inventory maintained in Japan. □ : Non stock, produced to order only.

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
MV Breaker  Medium Cutting	NEW CNMG120404-MV		□	12.7	4.76	0.4	5.16	
	NEW 120408-MV		●	12.7	4.76	0.8	5.16	
	NEW 120412-MV		●	12.7	4.76	1.2	5.16	
	NEW 120416-MV		●	12.7	4.76	1.6	5.16	
MW Breaker  Medium Cutting (Wiper)	CNMG120408-MW	●	●	12.7	4.76	0.8	5.16	
	120412-MW	●	●	12.7	4.76	1.2	5.16	
SA Breaker  Light Cutting	CNMG120412-SA	□	□	12.7	4.76	1.2	5.16	
SH Breaker  Light Cutting	NEW CNMG120404-SH		●	12.7	4.76	0.4	5.16	
	NEW 120408-SH		●	12.7	4.76	0.8	5.16	
	NEW 120412-SH		●	12.7	4.76	1.2	5.16	
SW Breaker  Light Cutting (Wiper)	NEW CNMG120404-SW		□	12.7	4.76	0.4	5.16	
	NEW 120408-SW	□	●	12.7	4.76	0.8	5.16	
Flat Top 	DNMA150404	★	★	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	
	150416	●	●	12.7	4.76	1.6	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	
Standard Breaker  Medium Cutting	DNMG110404	●	●	9.525	4.76	0.4	3.81	
	110408	●	●	9.525	4.76	0.8	3.81	
	110412	●	●	9.525	4.76	1.2	3.81	
	150404	●	●	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	
	150616		□	12.7	6.35	1.6	5.16	

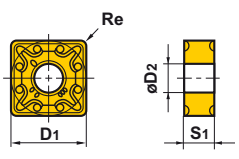

UC5105/UC5115

Inserts

● Negative Insert (With hole)

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
GH Breaker  Semi-Heavy Cutting	DNMG150408-GH	●	●	12.7	4.76	0.8	5.16	
	150412-GH	●	●	12.7	4.76	1.2	5.16	
	150608-GH	●	●	12.7	4.76	0.8	5.16	
	150612-GH	●	●	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	
	150608-MA	●	●	12.7	6.35	0.8	5.16	
MH Breaker  Medium Cutting	NEW DNMG150404-MH		□	12.7	4.76	0.4	5.16	
	NEW 150408-MH		□	12.7	4.76	0.8	5.16	
	NEW 150412-MH		□	12.7	4.76	1.2	5.16	
	NEW 150604-MH		□	12.7	6.35	0.4	5.16	
	NEW 150608-MH	□	●	12.7	6.35	0.8	5.16	
	NEW 150612-MH		●	12.7	6.35	1.2	5.16	
MV Breaker  Medium Cutting	NEW DNMG150404-MV		□	12.7	4.76	0.4	5.16	
	NEW 150408-MV		□	12.7	4.76	0.8	5.16	
	NEW 150412-MV		□	12.7	4.76	1.2	5.16	
	NEW 150416-MV		□	12.7	4.76	1.6	5.16	
	NEW 150604-MV		●	12.7	6.35	0.4	5.16	
	NEW 150608-MV		●	12.7	6.35	0.8	5.16	
	NEW 150612-MV		●	12.7	6.35	1.2	5.16	
MW Breaker  Medium Cutting	DNMX150408-MW	●	●	12.7	4.76	0.8	5.16	
	150412-MW	●	●	12.7	4.76	1.2	5.16	
	150608-MW	●	●	12.7	6.35	0.8	5.16	
	150612-MW	●	●	12.7	6.35	1.2	5.16	
SH Breaker  Light Cutting	DNMG110404-SH	□	□	9.525	4.76	0.4	3.81	
	NEW 150404-SH		□	12.7	4.76	0.4	5.16	
	NEW 150408-SH		□	12.7	4.76	0.8	5.16	
	NEW 150412-SH		□	12.7	4.76	1.2	5.16	
	NEW 150604-SH		●	12.7	6.35	0.4	5.16	
	NEW 150608-SH		●	12.7	6.35	0.8	5.16	
Flat Top 	SNMA090308	★	★	9.525	3.18	0.8	3.81	
	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	
	190612	●	●	19.05	6.35	1.2	7.93	
	190616	●	●	19.05	6.35	1.6	7.93	


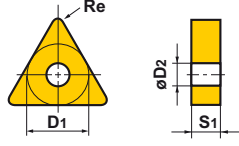

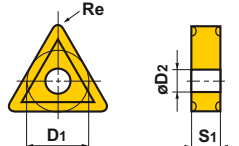

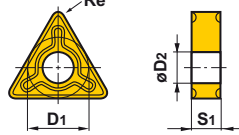

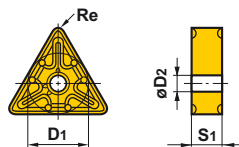

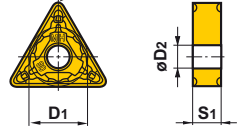

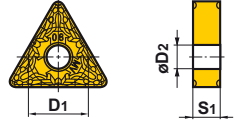
● : Inventory maintained. ★ : Inventory maintained in Japan. □ : Non stock, produced to order only.


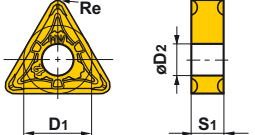

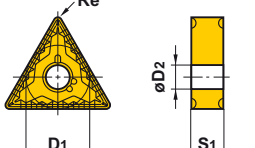

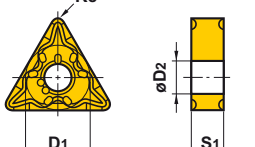

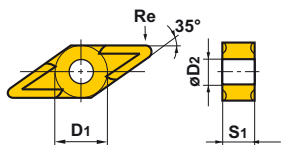

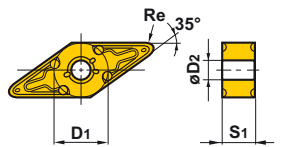

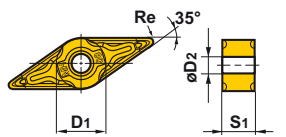

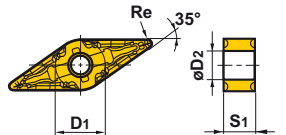
Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
Standard Breaker  Medium Cutting	SNMG120408	●	●	12.7	4.76	0.8	5.16	
	120412	●	●	12.7	4.76	1.2	5.16	
	120416	●	●	12.7	4.76	1.6	5.16	
	150612	□		15.875	6.35	1.2	6.35	
	190612	★	★	19.05	6.35	1.2	7.93	
	190616	★	★	19.05	6.35	1.6	7.93	
GH Breaker  Semi-Heavy Cutting	SNMG120408-GH	●	●	12.7	4.76	0.8	5.16	
	120412-GH	●	●	12.7	4.76	1.2	5.16	
MA Breaker  Medium Cutting	NEW 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	
	120416-MA	●	●	12.7	4.76	1.6	5.16	
	150612-MA	●	●	15.875	6.35	1.2	6.35	
	190612-MA	●	●	19.05	6.35	1.2	7.93	
MH Breaker  Medium Cutting	NEW SNMG120404-MH		□	12.7	4.76	0.4	5.16	
	NEW 120408-MH		●	12.7	4.76	0.8	5.16	
	NEW 120412-MH	□	●	12.7	4.76	1.2	5.16	
	NEW 190612-MH		□	19.05	6.35	1.2	7.93	
	NEW 190616-MH		□	19.05	6.35	1.6	7.93	
MV Breaker  Medium Cutting	NEW SNMG120404-MV		□	12.7	4.76	0.4	5.16	
	NEW 120408-MV		□	12.7	4.76	0.8	5.16	
	NEW 120412-MV		□	12.7	4.76	1.2	5.16	
SH Breaker  Light Cutting	NEW SNMG120404-SH		●	12.7	4.76	0.4	5.16	
	NEW 120408-SH		●	12.7	4.76	0.8	5.16	
	NEW 120412-SH		●	12.7	4.76	1.2	5.16	
HX Breaker  Heavy Cutting	SNMM190616-HX	□		19.05	6.35	1.6	7.93	

UC5105/UC5115

Inserts

● Negative Insert (With hole)

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
Flat Top  Medium Cutting	TNMA160404	●	●	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	
	160420	★	★	9.525	4.76	2.0	3.81	
	220408	●	●	12.7	4.76	0.8	5.16	
	220412	●	●	12.7	4.76	1.2	5.16	
	220416	●	●	12.7	4.76	1.6	5.16	
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	
	160420	★	★	9.525	4.76	2.0	3.81	
	220408	●	●	12.7	4.76	0.8	5.16	
	220412	●	●	12.7	4.76	1.2	5.16	
	220416	●	●	12.7	4.76	1.6	5.16	
GH Breaker  Semi-Heavy Cutting	TNMG160408-GH	●	●	9.525	4.76	0.8	3.81	
	160412-GH	●	●	9.525	4.76	1.2	3.81	
	220408-GH	●	●	12.7	4.76	0.8	5.16	
	220412-GH	●	●	12.7	4.76	1.2	5.16	
MA Breaker  Medium Cutting	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	
	160416-MA	●	●	9.525	4.76	1.6	3.81	
	160420-MA	●	●	9.525	4.76	2.0	3.81	
	220408-MA	●	●	12.7	4.76	0.8	5.16	
	220412-MA	●	●	12.7	4.76	1.2	5.16	
	220416-MA	●	●	12.7	4.76	1.6	5.16	
MH Breaker  Medium Cutting	NEW TNMG160404-MH		□	9.525	4.76	0.4	3.81	
	NEW 160408-MH		●	9.525	4.76	0.8	3.81	
	NEW 160412-MH		●	9.525	4.76	1.2	3.81	
	NEW 220408-MH		●	12.7	4.76	0.8	5.16	
	NEW 220412-MH		□	1.7	4.76	1.2	5.16	
MV Breaker  Medium Cutting	NEW TNMG160404-MV		●	9.525	4.76	0.4	3.81	
	NEW 160408-MV		●	9.525	4.76	0.8	3.81	
	NEW 160412-MV		●	9.525	4.76	1.2	3.81	

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
MW Breaker  Medium Cutting	TNMX160408-MW	●	●	9.525	4.76	0.8	3.81	
	160412-MW	●	●	9.525	4.76	1.2	3.81	
SA Breaker  Light Cutting	TNMG160412-SA	●	●	9.525	4.76	1.2	3.81	
SH Breaker  Light Cutting	NEW TNMG160404-SH		●	9.525	4.76	0.4	3.81	
	NEW 160408-SH		●	9.525	4.76	0.8	3.81	
Standard Breaker  Medium Cutting	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	
MA Breaker  Medium Cutting	VNMG160404-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	
MH Breaker  Medium Cutting	NEW VNMG160404-MH		●	9.525	4.76	0.4	3.81	
	NEW 160408-MH		●	9.525	4.76	0.8	3.81	
MV Breaker  Medium Cutting	NEW VNMG160404-MV		●	9.525	4.76	0.4	3.81	
	NEW 160408-MV		●	9.525	4.76	0.8	3.81	


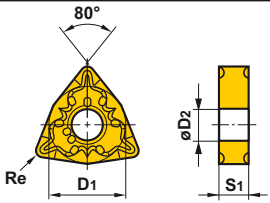

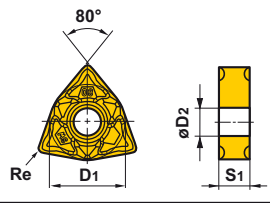
UC5105/UC5115

Inserts


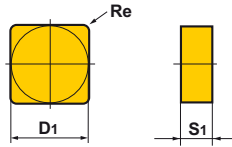

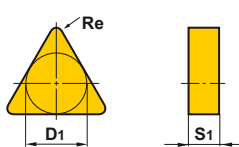
● Negative Insert (With hole)

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
Flat Top 	WNMA080404	●	●	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	
	080416	●	●	12.7	4.76	1.6	5.16	
Standard Breaker 	WNMG060404	●	●	9.525	4.76	0.4	3.81	
	060408	●	●	9.525	4.76	0.8	3.81	
	080404	●	●	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	
	080416	●	●	12.7	4.76	1.6	5.16	
GH Breaker 	WNMG080408-GH	●	●	12.7	4.76	0.8	5.16	
	080412-GH	●	●	12.7	4.76	1.2	5.16	
MA Breaker 	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	
	080416-MA	●	●	12.7	4.76	1.6	5.16	
MH Breaker 	NEW WNMG080404-MH		□	9.525	4.76	0.4	3.81	
	NEW 080408-MH	□	●	9.525	4.76	0.8	3.81	
	NEW 080412-MH		●	9.525	4.76	1.2	3.81	
MV Breaker 	NEW WNMG080404-MV		●	9.525	4.76	0.4	3.81	
	NEW 080408-MV		●	9.525	4.76	0.8	3.81	
	NEW 080412-MV		●	9.525	4.76	1.2	3.81	
MW Breaker 	WNMG060408-MW	●	●	9.525	4.76	0.8	3.81	
	060412-MW	●	●	9.525	4.76	1.2	3.81	
	080408-MW	●	●	12.7	4.76	0.8	5.16	
	080412-MW	●	●	12.7	4.76	1.2	5.16	

● : Inventory maintained. □ : Non stock, produced to order only.

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
SH Breaker  Light Cutting	NEW WNMG080404-SH		●	12.7	4.76	0.4	5.16	
	NEW 080408-SH		●	12.7	4.76	0.8	5.16	
	NEW 080412-SH		●	12.7	4.76	1.2	5.16	
SW Breaker  Light Cutting (Wiper)	NEW WNMG080404-SW		□	12.7	4.76	0.4	5.16	
	NEW 080408-SW		●	12.7	4.76	0.8	5.16	


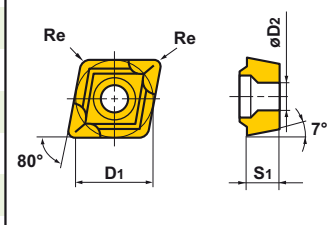

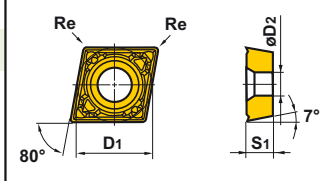

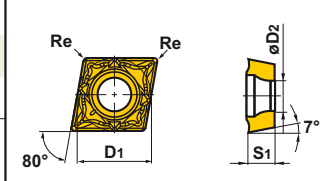

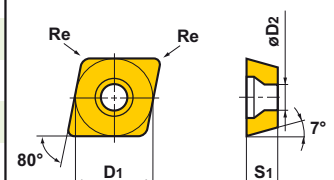

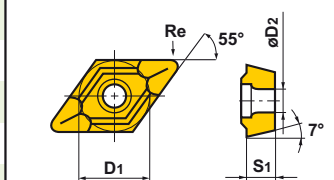

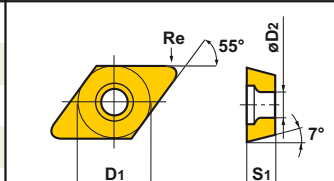

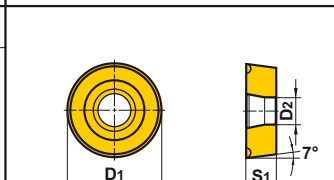
● Negative Insert (Without hole)

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
Flat Top 	SNMN120408	●	●	12.7	4.76	0.8	—	
	120412	●	●	12.7	4.76	1.2	—	
	120416	●	●	12.7	4.76	1.6	—	
Flat Top 	TNMN160408	●	●	9.525	4.76	0.8	—	
	160412	●	●	9.525	4.76	1.2	—	
	160416	●	●	9.525	4.76	1.6	—	
	160420	★	★	9.525	4.76	2.0	—	


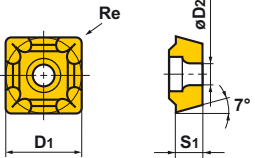

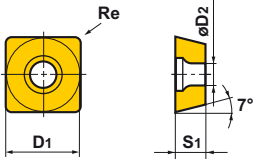

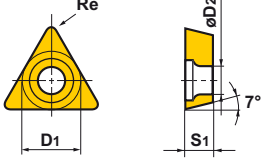

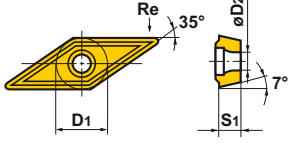

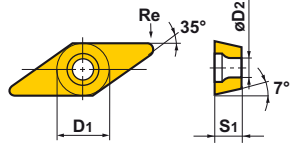
UC5105/UC5115

Inserts

● Positive Insert (With hole)


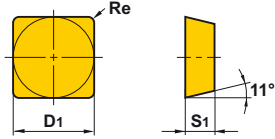

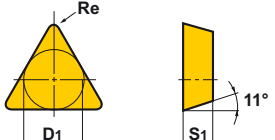
Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
Standard Breaker  Medium Cutting	CCMT060204		●	6.35	2.38	0.4	2.8	
	NEW 060208		●	6.35	2.38	0.8	2.8	
	09T304	●	●	9.525	3.97	0.4	4.4	
	09T308	●	●	9.525	3.97	0.8	4.4	
	120404	●	●	12.7	4.76	0.4	5.5	
	120408	●	●	12.7	4.76	0.8	5.5	
	120412		●	12.7	4.76	1.2	5.5	
MW Breaker  Medium Cutting (Wiper)	NEW CCMT120404-MW		□	12.7	4.76	0.8	5.5	
	NEW 120408-MW		●	12.7	4.76	1.2	5.5	
SW Breaker  Light Cutting (Wiper)	NEW CCMT060204-SW		●	6.35	2.38	0.4	2.8	
	NEW 09T302-SW		□	9.525	3.97	0.2	4.4	
	NEW 09T304-SW		●	9.525	3.97	0.4	4.4	
Flat Top  Medium Cutting	CCMW060204	●	●	6.35	2.38	0.4	2.8	
	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	
Standard Breaker  Medium Cutting	DCMT070202	□	□	6.35	2.38	0.2	2.8	
	070204		●	6.35	2.38	0.4	2.8	
	NEW 070208		●	6.35	2.38	0.2	2.8	
	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	
Flat Top  Medium Cutting	DCMW070204	●	●	6.35	2.38	0.4	2.8	
	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	
Standard Breaker  Medium Cutting	RCMX1204M0		●	12	4.76	—	4.2	

● : Inventory maintained. □ : Non stock, produced to order only.

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
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	
	120412		□	12.7	4.76	1.2	5.5	
Flap Top 	SCMW09T304		●	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	
Flap Top 	TCMW110204		●	6.35	2.38	0.4	2.8	
	16T304		●	9.525	3.97	0.4	4.4	
	16T308		●	9.525	3.97	0.8	4.4	
Standard Breaker  Medium Cutting	VCMT160404		●	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	
Flap Top 	VCMW110304		●	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	

UC5105/UC5115

● Positive Insert (Without hole)

Shape	Order Number	Stock		Dimensions (mm)				Geometry
		UC5105	UC5115	D1	S1	Re	D2	
	SPMN120308	●	●	12.7	3.18	0.8	—	
	TPMN110304	●	●	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	—	
	160316	□	●	9.525	3.18	1.6	—	
	220408	□	□	12.7	4.76	0.8	—	

● : Inventory maintained. □ : Non stock, produced to order only.


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