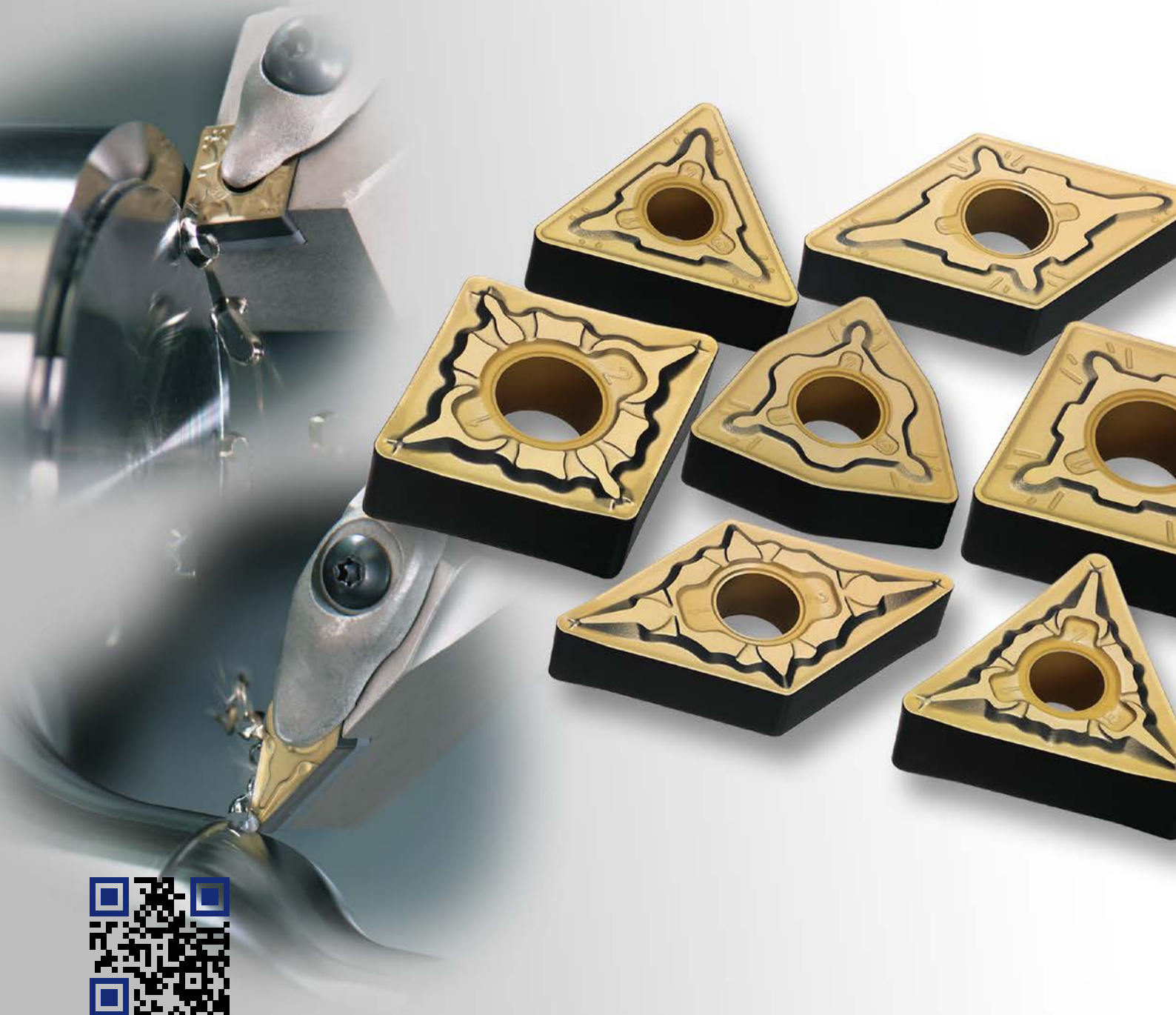


CVD Coated Grade for Steel Turning

UE6110

Series
Expansion

**Excellent stability over a wide
range of applications!**



CVD Coated Grade for Steel Turning

UE6110

Features

Superior machining performance achieved using 2 in 1 technology

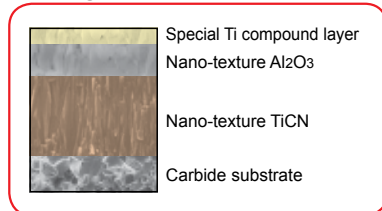
High Crater Wear Resistance

The gold Ti compound coating on the rake face exhibits exceptionally high crater wear resistance. This outer coating layer further enhances the crater wear resistance of the nano-texture Al₂O₃, making it suitable for high-speed, high performance machining.

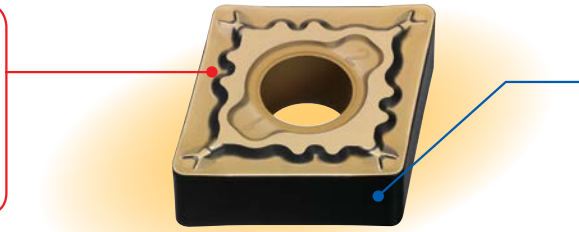
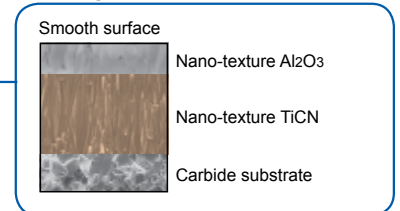
High Flank Wear Resistance

The black coating on the flank face has an extremely smooth surface that prevents abnormal wear and weld chipping. Combined with the nano-texture coating improved surface finishes and stable tool life can be achieved.

Coating structure of the rake face



Coating structure of the flank face



Crater Wear Comparison

Insert : CNMG120408-MA
 Workpiece : 40NiCrMo22
 Cutting Conditions : Cutting speed 250m/min, Feed 0.3mm/rev, Depth of cut 1.5mm, Dry cutting, Cutting time 7min

With a Ti compound layer



Less crater wear

Without a Ti compound layer



Large crater wear

Flank Wear Comparison

Insert : CNMG120408-00
 Workpiece : 42Cr4
 Cutting Conditions : Cutting speed 200m/min, Feed 0.3mm/rev, Depth of cut 1.5mm, Dry cutting, Cutting time 2min

UE6110



Smooth, stable wear

Competitor



Rough, uneven wear

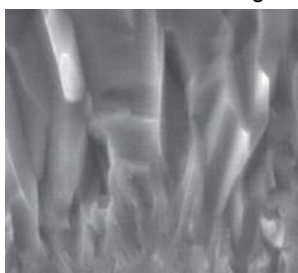
State-of-the-art coating featuring 2 in 1 technology

1 New "Nano-texture coating"

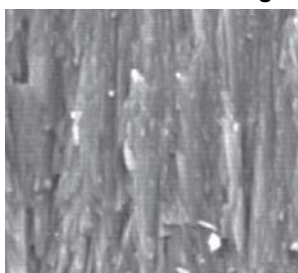
Mitsubishi Materials unique, new coating technology consisting of nano-texture TiCN and Al₂O₃ offers a coating that has both high fracture and wear resistance.

Comparison of crystalline microstructure

Conventional coating



Nano-texture coating



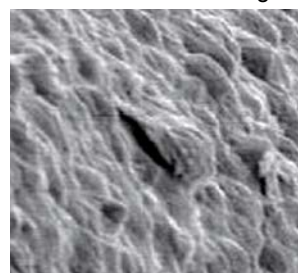
Even on a nano-level grains are finely refined

2 New "Black super-even coating"

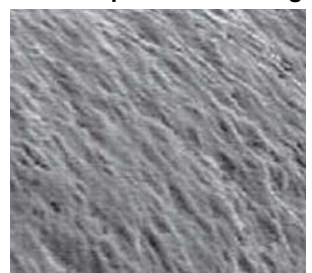
An extremely smooth coating surface inhibits wear propagation during machining to achieve high quality surface finishes and prevents welding and chipping.

Comparison of coating surface

Conventional coating



Black super-even coating



2 in 1 technology for stable cutting with high wear and fracture resistance.

Application Range

UE6110 is the 1st recommendation for steel turning. Suitable for machining mild, carbon, alloy, bearing and lead free steels.

Application Range	
ISO	Steel
P01	UE6105
P10	UE6110
P20	ML6025
P30	UE6020
P40	UE6035, UE6400

Chip Breaker system for steel cutting (Negative inserts)

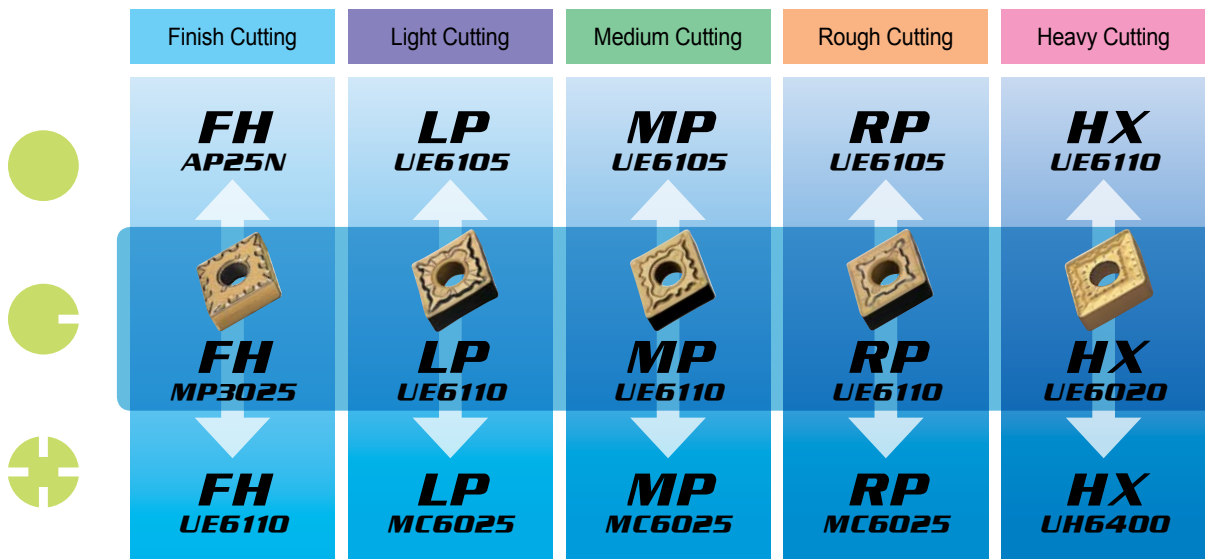
Application	Tolerance	Chip Breaker	Features	Cross Section Geometry
Light Cutting	M	NEW LP	<p>First recommendation for light cutting of carbon steel and alloy steel</p> <p>Stable chip control in the light cutting range. The curved edge allows smooth chip discharge.</p>	
Medium Cutting	M	NEW MP	<p>First recommendation for medium cutting of carbon steel and alloy steel</p> <p>Suitable for medium to light cutting. Breaker geometry suitable for copying and back turning. Cutting edge geometry for an optimum balance of sharpness and fracture resistance.</p>	
Rough Cutting	M	NEW RP	<p>First recommendation for rough cutting of carbon steel and alloy steel</p> <p>For interrupted cuts and removing scale. Good balance of cutting edge strength and low cutting resistance because of a suitable rake angle.</p>	

Chip Breaker system for steel cutting (Positive inserts)

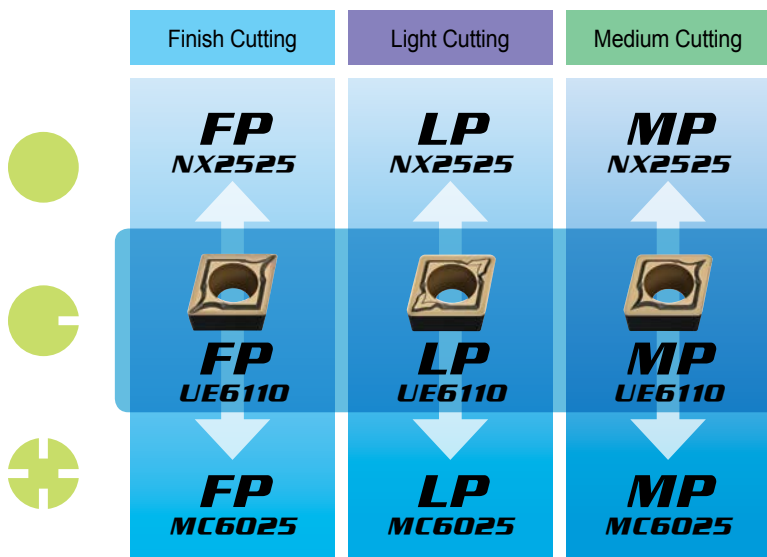
Application	Tolerance	Chip Breaker	Features	Cross Section Geometry
Finish Cutting	M	NEW FP	<p>First recommendation for finish cutting of carbon steel and alloy steel</p> <p>The protuberance at the tip of the breaker controls chips even at small depths of cut. Corner strength is maintained to prevent abnormal fracturing.</p> <p>7° Positive Insert</p>	
Light Cutting	M	NEW LP	<p>First recommendation for light cutting of carbon steel and alloy steel</p> <p>Excellent cutting edge sharpness due to the large rake angle. Prevents chip welding of the insert to ensure good surface finishes. Optimised breaker realises a wide range of chip control.</p> <p>7° Positive Insert</p>	
Medium Cutting	M	NEW MP	<p>First recommendation for medium cutting of carbon steel and alloy steel</p> <p>The flat land produces excellent wear resistance and superior fracture resistance. The wide pocket reduces vibration and chip jamming and also prevents increases in cutting resistance even at high depths of cut.</p> <p>7° Positive Insert</p>	

Optimum Selection of Insert

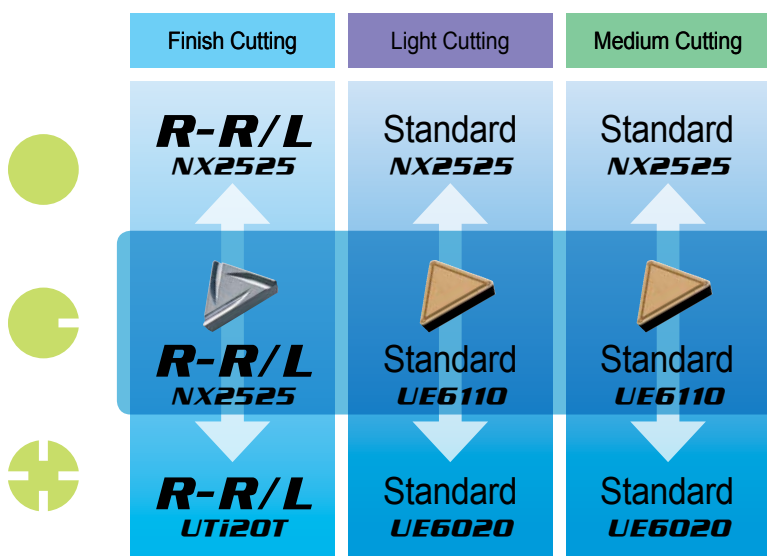
P Mild Steel, Carbon Steel, Alloy Steel
NEGATIVE INSERTS



7° POSITIVE INSERTS WITH HOLE



11° POSITIVE INSERTS WITH HOLE



CUTTING CONDITIONS

- Stable Cutting
Continuous Cutting
Constant Depth of Cut
Pre-Machined
Securely Clamped Component
- ◐ General Cutting
- ⊕ Unstable Cutting
Heavy Interrupted Cutting
Irregular Depth of Cut
Low Clamping Rigidity

Recommended Cutting Conditions

Negative Inserts

Work Material	Hardness	Cutting Mode		Chip Breaker	Cutting Speed (m/min)	Feed (mm/rev)	Depth of Cut (mm)
Carbon Steel, Alloy Steel (Ck45, 41CrMo4)	180–280HB	General Cutting	Finish Cutting	FH	230–390	0.08–0.20	0.20–1.00
		General Cutting	Light Cutting	LP	210–355	0.10–0.40	0.30–2.00
		General Cutting		SH	210–355	0.10–0.40	0.30–2.00
		General Cutting		SA	210–355	0.10–0.40	0.30–2.00
		General Cutting		SW	210–355	0.10–0.50	0.30–2.50
		General Cutting		Medium Cutting	MP	190–325	0.16–0.50
		General Cutting	MA		190–325	0.20–0.50	0.30–4.00
		General Cutting	MH		190–325	0.20–0.55	1.00–4.00
		General Cutting	Std		190–325	0.25–0.60	1.50–5.00
		General Cutting	MW		190–325	0.20–0.60	0.90–4.00
		General Cutting	Rough Cutting	RP	180–310	0.25–0.60	1.50–6.00
		General Cutting		GH	180–310	0.25–0.60	1.50–6.00
		Stable Cutting	Heavy Cutting	HX	160–275	0.50–1.26	3.00–11.00
		Stable Cutting		HV	135–275	0.70–1.30	4.00–12.00
		General Cutting		HZ	160–275	0.40–1.20	2.00–10.00

5°/7° Positive Inserts

Work Material	Hardness	Cutting Mode		Chip Breaker	Cutting Speed (m/min)	Feed (mm/rev)	Depth of Cut (mm)
Mild Steel (Ck15, Ck25)	≤180HB	General Cutting	Finish Cutting	FP	250–425	0.04–0.20	0.20–0.90
		General Cutting	Light Cutting	LP	250–425	0.06–0.25	0.20–1.00
		General Cutting	Medium Cutting	MP	205–350	0.08–0.30	0.30–2.00
Carbon Steel, Alloy Steel (Ck45, 41CrMo4)	180–280HB	General Cutting	Finish Cutting	FP	185–310	0.04–0.20	0.20–0.90
		General Cutting	Light Cutting	LP	185–310	0.06–0.25	0.20–1.00
		General Cutting	Medium Cutting	MP	150–260	0.08–0.30	0.30–2.00
Carbon Steel, Alloy Steel (40NiCrMo6)	280–350HB	General Cutting	Medium Cutting	MP	110–185	0.08–0.30	0.30–2.00


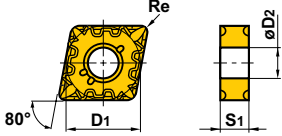

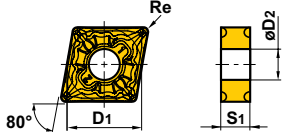

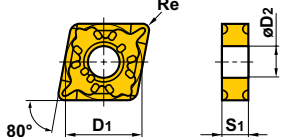

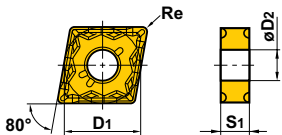

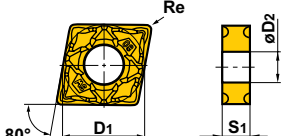

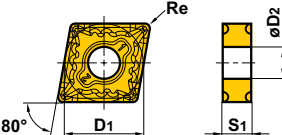

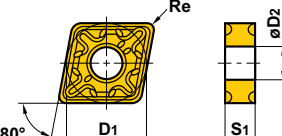
11° Positive Inserts

Work Material	Hardness	Cutting Mode		Chip Breaker	Cutting Speed (m/min)	Feed (mm/rev)	Depth of Cut (mm)
Mild Steel (Ck15, Ck25)	≤180HB	General Cutting	Medium Cutting	Standard	205–350	0.08–0.30	0.30–2.00
Carbon Steel, Alloy Steel (Ck45, 41CrMo4)	180–280HB	General Cutting	Medium Cutting	Standard	150–260	0.08–0.30	0.30–2.00
Cast Iron (GG30)	≤350MPa	General Cutting	Medium Cutting	—	130–200	0.08–0.30	0.30–2.00
	≤450MPa	General Cutting	Medium Cutting	—	120–190	0.08–0.30	0.30–2.00
	≤800MPa	General Cutting	Medium Cutting	—	105–170	0.08–0.30	0.30–2.00


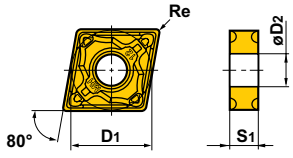

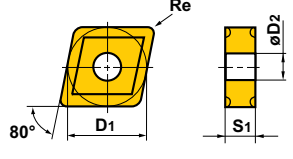

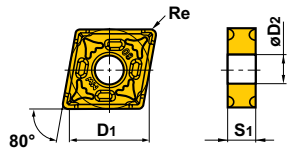

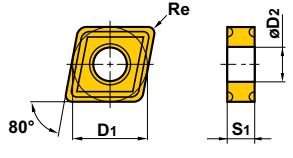

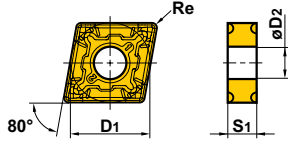

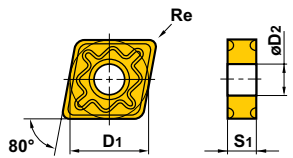
UE6110

INSERTS

● Negative Inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		UE6110	D1	S1	Re	D2	
 Finish Cutting	CNMG120402-FH	●	12.7	4.76	0.2	5.16	
	120404-FH	●	12.7	4.76	0.4	5.16	
	120408-FH	●	12.7	4.76	0.8	5.16	
 Light Cutting	CNMG120404-LP	●	12.7	4.76	0.4	5.16	
	120408-LP	●	12.7	4.76	0.8	5.16	
	120412-LP	●	12.7	4.76	1.2	5.16	
 Light Cutting	CNMG09T304-SH	●	9.525	3.97	0.4	3.81	
	09T308-SH	●	9.525	3.97	0.8	3.81	
	120404-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	
 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	
 Light Cutting (Wiper)	CNMG120404-SW	●	12.7	4.76	0.4	5.16	
	120408-SW	●	12.7	4.76	0.8	5.16	
	120412-SW	●	12.7	4.76	1.2	5.16	
 Medium Cutting	CNMG120404-MP	●	12.7	4.76	0.4	5.16	
	120408-MP	●	12.7	4.76	0.8	5.16	
	120412-MP	●	12.7	4.76	1.2	5.16	
	120416-MP	●	12.7	4.76	1.6	5.16	
	160608-MP	●	15.875	6.35	0.8	6.35	
	160612-MP	●	15.875	6.35	1.2	6.35	
	160616-MP	●	15.875	6.35	1.6	6.35	
 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	
	120416-MA	●	12.7	4.76	1.6	5.16	
	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	
	190616-MA	●	19.05	6.35	1.6	7.93	


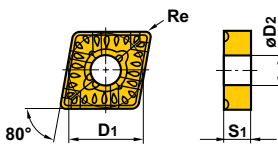

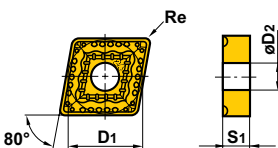

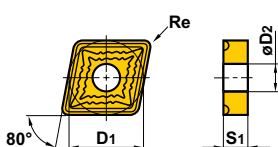

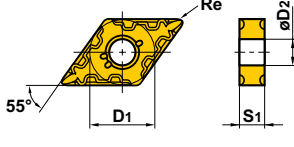

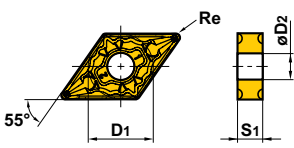

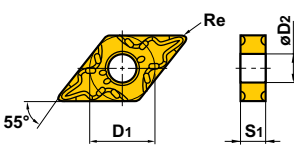

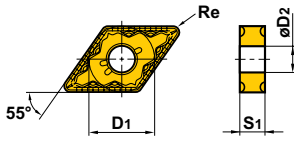
● : Inventory maintained.

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
MH  Medium Cutting	CNMG120404-MH	●	12.7	4.76	0.4	5.16	
	120408-MH	●	12.7	4.76	0.8	5.16	
	120412-MH	●	12.7	4.76	1.2	5.16	
	120416-MH	●	12.7	4.76	1.6	5.16	
	160608-MH	●	15.875	6.35	0.8	6.35	
	160612-MH	●	15.875	6.35	1.2	6.35	
	160616-MH	●	15.875	6.35	1.6	6.35	
	190612-MH	●	19.05	6.35	1.2	7.93	
	190616-MH	●	19.05	6.35	1.6	7.93	
Standard  Medium Cutting	CNMG090308	●	9.525	3.18	0.8	3.81	
	09T304	●	9.525	3.97	0.4	3.81	
	09T308	●	9.525	3.97	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	
	160608	●	15.875	6.35	0.8	6.35	
	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	
190616	●	19.05	6.35	1.6	7.93		
MW  Medium Cutting (Wiper)	CNMG120408-MW	●	12.7	4.76	0.8	5.16	
	120412-MW	●	12.7	4.76	1.2	5.16	
MS  Medium Cutting	CNMG090308-MS	●	9.525	3.18	0.8	3.81	
	09T308-MS	●	9.525	3.97	0.8	3.81	
	120404-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	
NEW RP  Rough Cutting	CNMG120408-RP	●	12.7	4.76	0.8	5.16	
	120412-RP	●	12.7	4.76	1.2	5.16	
	120416-RP	●	12.7	4.76	1.6	5.16	
	160612-RP	●	15.875	6.35	1.2	6.35	
	160616-RP	●	15.875	6.35	1.6	6.35	
	190612-RP	●	19.05	6.35	1.2	7.93	
	190616-RP	●	19.05	6.35	1.6	7.93	
GH  Rough Cutting	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	
	190616-GH	●	19.05	6.35	1.6	7.93	


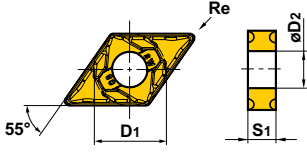

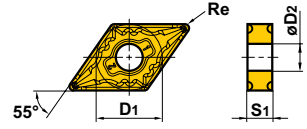

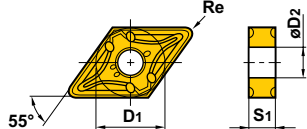

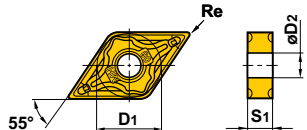

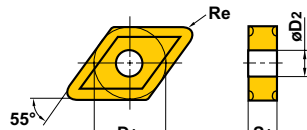

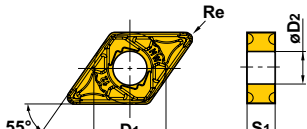
UE6110

INSERTS

● Negative Inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		UE6110	D1	S1	Re	D2	
 Heavy Cutting	CNMM120408-HZ	●	12.7	4.76	0.8	5.16	
	120412-HZ	●	12.7	4.76	1.2	5.16	
	160612-HZ	●	15.875	6.35	1.2	6.35	
	160616-HZ	●	15.875	6.35	1.6	6.35	
	190612-HZ	●	19.05	6.35	1.2	7.93	
	190616-HZ	●	19.05	6.35	1.6	7.93	
 Heavy Cutting	CNMM190612-HX	●	19.05	6.35	1.2	7.93	
	190616-HX	●	19.05	6.35	1.6	7.93	
	190624-HX	●	19.05	6.35	2.4	7.93	
	250924-HX	●	25.4	9.52	2.4	9.12	
 Heavy Cutting	CNMM190616-HV	●	19.05	6.35	1.6	7.93	
	190624-HV	●	19.05	6.35	2.4	7.93	
	250924-HV	●	25.4	9.52	2.4	9.12	
 Finish Cutting	DNMG150402-FH	●	12.7	4.76	0.2	5.16	
	150404-FH	●	12.7	4.76	0.4	5.16	
	150408-FH	●	12.7	4.76	0.8	5.16	
	150602-FH	●	12.7	6.35	0.2	5.16	
	150604-FH	●	12.7	6.35	0.4	5.16	
	150608-FH	●	12.7	6.35	0.8	5.16	
 Light Cutting	NEW DNMG110404-LP	●	9.525	4.76	0.4	3.81	
	110408-LP	●	9.525	4.76	0.8	3.81	
	150404-LP	●	12.7	4.76	0.4	5.16	
	150408-LP	●	12.7	4.76	0.8	5.16	
	150412-LP	●	12.7	4.76	1.2	5.16	
	150604-LP	●	12.7	6.35	0.4	5.16	
	150608-LP	●	12.7	6.35	0.8	5.16	
	150612-LP	●	12.7	6.35	1.2	5.16	
 Light Cutting	DNMG110404-SH	●	9.525	4.76	0.4	3.81	
	110408-SH	●	9.525	4.76	0.8	3.81	
	150404-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	
 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	

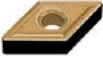
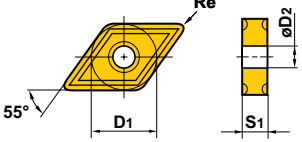

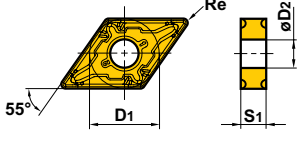

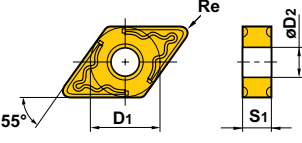

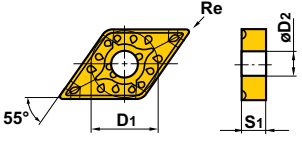

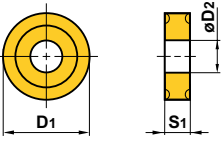

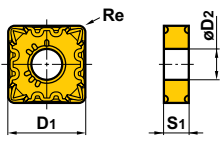

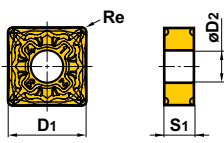

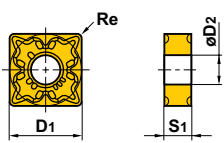
● : Inventory maintained.

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
SW  Light Cutting (Wiper)	DNMX150404-SW	●	12.7	4.76	0.4	5.16	
	150408-SW	●	12.7	4.76	0.8	5.16	
	150412-SW	●	12.7	4.76	1.2	5.16	
	150604-SW	●	12.7	6.35	0.4	5.16	
	150608-SW	●	12.7	6.35	0.8	5.16	
	150612-SW	●	12.7	6.35	1.2	5.16	
MP  Medium Cutting	DNMG150404-MP	●	12.7	4.76	0.4	5.16	
	150408-MP	●	12.7	4.76	0.8	5.16	
	150412-MP	●	12.7	4.76	1.2	5.16	
	150416-MP	●	12.7	4.76	1.6	5.16	
	150604-MP	●	12.7	6.35	0.4	5.16	
	150608-MP	●	12.7	6.35	0.8	5.16	
	150612-MP	●	12.7	6.35	1.2	5.16	
	150616-MP	●	12.7	6.35	1.6	5.16	
MA  Medium Cutting	DNMG110404-MA	●	9.525	4.76	0.4	3.81	
	110408-MA	●	9.525	4.76	0.8	3.81	
	110412-MA	●	9.525	4.76	1.2	3.81	
	150404-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	
	150616-MA	●	12.7	6.35	1.6	5.16	
MH  Medium Cutting	DNMG150404-MH	●	12.7	4.76	0.4	5.16	
	150408-MH	●	12.7	4.76	0.8	5.16	
	150412-MH	●	12.7	4.76	1.2	5.16	
	150604-MH	●	12.7	6.35	0.4	5.16	
	150608-MH	●	12.7	6.35	0.8	5.16	
	150612-MH	●	12.7	6.35	1.2	5.16	
Standard  Medium Cutting	DNMG110408	●	9.525	4.76	0.8	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	
	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	
	150616	●	12.7	6.35	1.6	5.16	
MW  Medium Cutting (Wiper)	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	


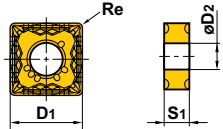

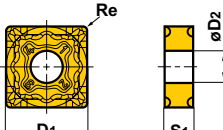

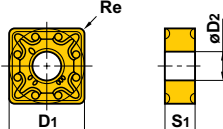

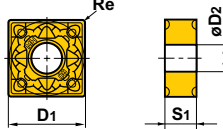

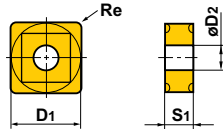

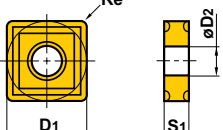

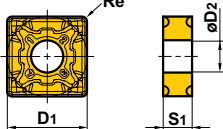
UE6110

INSERTS

● Negative Inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		UE6110	D1	S1	Re	D2	
 Medium Cutting	DNMG110408-MS	●	9.525	4.76	0.8	3.81	
	150404-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	
 Rough Cutting	DNMG150408-RP	●	12.7	4.76	0.8	5.16	
	150412-RP	●	12.7	4.76	1.2	5.16	
	150416-RP	●	12.7	4.76	1.6	5.16	
	150608-RP	●	12.7	6.35	0.8	5.16	
	150612-RP	●	12.7	6.35	1.2	5.16	
	150616-RP	●	12.7	6.35	1.6	5.16	
 Rough 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	6.35	0.8	5.16	
	150612-GH	●	12.7	6.35	1.2	5.16	
 Heavy Cutting	DNMG150408-HZ	●	12.7	4.76	0.8	5.16	
	150412-HZ	●	12.7	4.76	1.2	5.16	
	150608-HZ	●	12.7	6.35	0.8	5.16	
	150612-HZ	●	12.7	6.35	1.2	5.16	
 Medium Cutting	RNMG120400	●	12.7	4.76	—	5.16	
 Finish Cutting	SNMG120404-FH	●	12.7	4.76	0.4	5.16	
	120408-FH	●	12.7	4.76	0.8	5.16	
 Light Cutting	SNMG120404-LP	●	12.7	4.76	0.4	5.16	
	120408-LP	●	12.7	4.76	0.8	5.16	
	120412-LP	●	12.7	4.76	1.2	5.16	
 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	


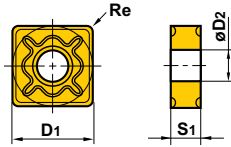

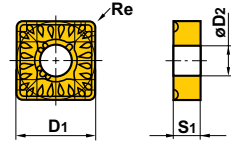

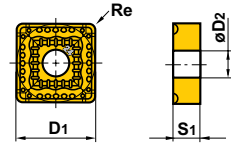

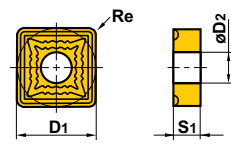

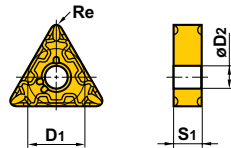

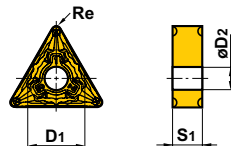

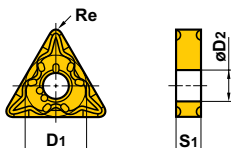

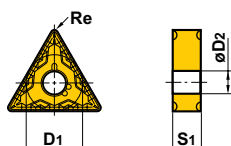
● : Inventory maintained.

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
SA  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	
MP  Medium Cutting	SNMG120404-MP	●	12.7	4.76	0.4	5.16	
	120408-MP	●	12.7	4.76	0.8	5.16	
	120412-MP	●	12.7	4.76	1.2	5.16	
MA  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	
	150608-MA	●	15.875	6.35	0.8	6.35	
	150612-MA	●	15.875	6.35	1.2	6.35	
	150616-MA	●	15.875	6.35	1.6	6.35	
	190612-MA	●	19.05	6.35	1.2	7.93	
190616-MA	●	19.05	6.35	1.6	7.93		
MH  Medium Cutting	SNMG120408-MH	●	12.7	4.76	0.8	5.16	
	120412-MH	●	12.7	4.76	1.2	5.16	
	190612-MH	●	19.05	6.35	1.2	7.93	
	190616-MH	●	19.05	6.35	1.6	7.93	
Standard  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	
	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		
MS  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	
NEW RP  Rough Cutting	SNMG120408-RP	●	12.7	4.76	0.8	5.16	
	120412-RP	●	12.7	4.76	1.2	5.16	
	120416-RP	●	12.7	4.76	1.6	5.16	
	150612-RP	●	15.875	6.35	1.2	6.35	
	150616-RP	●	15.875	6.35	1.6	6.35	
	190612-RP	●	19.05	6.35	1.2	7.93	
	190616-RP	●	19.05	6.35	1.6	7.93	


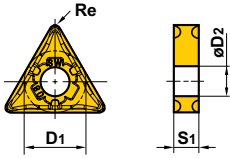

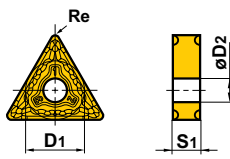

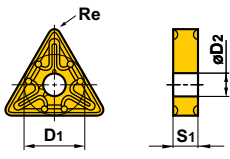

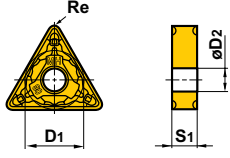

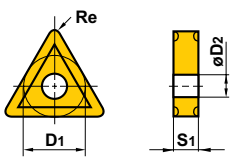

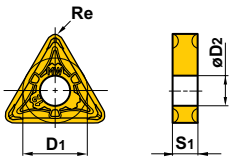
UE6110

INSERTS

● Negative Inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		UE6110	D1	S1	Re	D2	
 Rough Cutting	SNMG120408-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	
	150612-GH	●	15.875	6.35	1.2	6.35	
	150616-GH	●	15.875	6.35	1.6	6.35	
	190612-GH	●	19.05	6.35	1.2	7.93	
	190616-GH	●	19.05	6.35	1.6	7.93	
 Heavy Cutting	SNMM120408-HZ	●	12.7	4.76	0.8	5.16	
	120412-HZ	●	12.7	4.76	1.2	5.16	
	150612-HZ	●	15.875	6.35	1.2	6.35	
	190612-HZ	●	19.05	6.35	1.2	7.93	
	190616-HZ	●	19.05	6.35	1.6	7.93	
 Heavy Cutting	SNMM190612-HX	●	19.05	6.35	1.2	7.93	
	190616-HX	●	19.05	6.35	1.6	7.93	
	190624-HX	●	19.05	6.35	2.4	7.93	
	250724-HX	●	25.4	7.94	2.4	9.12	
	250924-HX	●	25.4	9.52	2.4	9.12	
 Heavy Cutting	SNMM190616-HV	●	19.05	6.35	1.6	7.93	
	190624-HV	●	19.05	6.35	2.4	7.93	
	250724-HV	●	25.4	7.94	2.4	9.12	
	250924-HV	●	25.4	9.53	2.4	9.12	
 Finish Cutting	TNMG160402-FH	●	9.525	4.76	0.2	3.81	
	160404-FH	●	9.525	4.76	0.4	3.81	
	160408-FH	●	9.525	4.76	0.8	3.81	
 Light Cutting	TNMG160404-LP	●	9.525	4.76	0.4	3.81	
	160408-LP	●	9.525	4.76	0.8	3.81	
	160412-LP	●	9.525	4.76	1.2	3.81	
	220408-LP	●	12.7	4.76	0.8	5.16	
	220412-LP	●	12.7	4.76	1.2	5.16	
 Light Cutting	TNMG160404-SH	●	9.525	4.76	0.4	3.81	
	160408-SH	●	9.525	4.76	0.8	3.81	
	220408-SH	●	12.7	4.76	0.8	5.16	
 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	
	220408-SA	●	12.7	4.76	0.8	5.16	
	220412-SA	●	12.7	4.76	1.2	5.16	


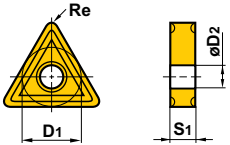

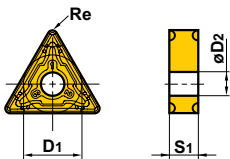

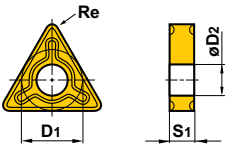

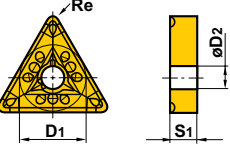

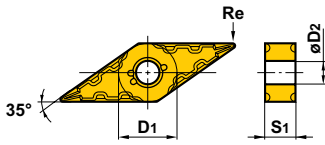

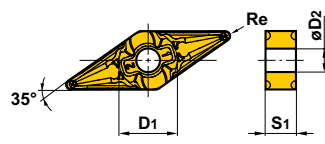

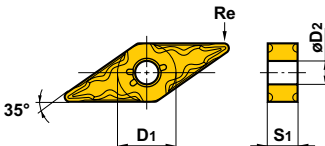

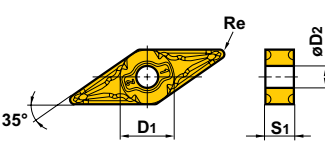
● : Inventory maintained.

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
SW  Light Cutting (Wiper)	TNMX160404-SW	●	9.525	4.76	0.4	3.81	
	160408-SW	●	9.525	4.76	0.8	3.81	
MP  Medium Cutting	TNMG160404-MP	●	9.525	4.76	0.4	3.81	
	160408-MP	●	9.525	4.76	0.8	3.81	
	160412-MP	●	9.525	4.76	1.2	3.81	
	220408-MP	●	12.7	4.76	0.8	5.16	
	220412-MP	●	12.7	4.76	1.2	5.16	
MA  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	
	220408-MA	●	12.7	4.76	0.8	5.16	
	220412-MA	●	12.7	4.76	1.2	5.16	
	270608-MA	●	15.875	6.35	0.8	6.35	
MH  Medium Cutting	TNMG160404-MH	●	9.525	4.76	0.4	3.81	
	160408-MH	●	9.525	4.76	0.8	3.81	
	160412-MH	●	9.525	4.76	1.2	3.81	
	220408-MH	●	12.7	4.76	0.8	5.16	
	220412-MH	●	12.7	4.76	1.2	5.16	
Standard  Medium Cutting	TNMG110304	●	6.35	3.18	0.4	2.26	
	110308	●	6.35	3.18	0.8	2.26	
	160304	●	9.525	3.18	0.4	3.81	
	160308	●	9.525	3.18	0.8	3.81	
	160404	●	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	
	220412	●	12.7	4.76	1.2	5.16	
	220416	●	12.7	4.76	1.6	5.16	
	270608	●	15.875	6.35	0.8	6.35	
	270612	●	15.875	6.35	1.2	6.35	
	270616	●	15.875	6.35	1.6	6.35	
MW  Light Cutting (Wiper)	TNMX160408-MW	●	9.525	4.76	0.8	3.81	
	160412-MW	●	9.525	4.76	1.2	3.81	


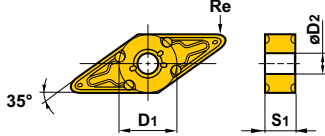

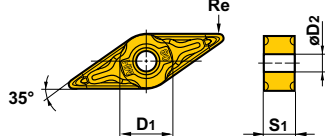

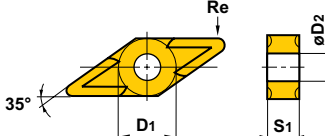

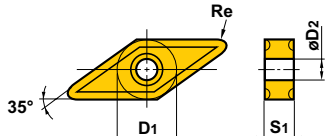

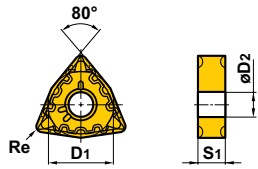

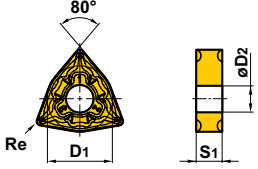

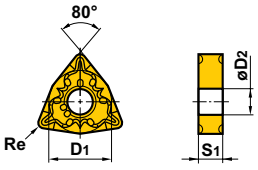

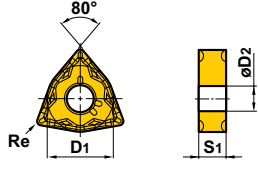
UE6110

INSERTS

● Negative Inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		UE6110	D1	S1	Re	D2	
 Medium Cutting	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	
	220408-MS	●	12.7	4.76	0.8	5.16	
 Rough Cutting	TNMG160408-RP	●	9.525	4.76	0.8	3.81	
	160412-RP	●	9.525	4.76	1.2	3.81	
	220408-RP	●	12.7	4.76	0.8	5.16	
	220412-RP	●	12.7	4.76	1.2	5.16	
	220416-RP	●	12.7	4.76	1.6	5.16	
	270612-RP	●	15.875	6.35	1.2	6.35	
 Rough 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	
	220416-GH	●	12.7	4.76	1.6	5.16	
	270612-GH	●	15.875	6.35	1.2	6.35	
 Heavy Cutting	TNMM160408-HZ	●	9.525	4.76	0.8	3.81	
	220408-HZ	●	12.7	4.76	0.8	5.16	
	220412-HZ	●	12.7	4.76	1.2	5.16	
	220416-HZ	●	12.7	4.76	1.6	5.16	
 Finish Cutting	VNMG160402-FH	●	9.525	4.76	0.2	3.81	
	160404-FH	●	9.525	4.76	0.4	3.81	
	160408-FH	●	9.525	4.76	0.8	3.81	
 Light Cutting	VNMG160404-LP	●	9.525	4.76	0.4	3.81	
	160408-LP	●	9.525	4.76	0.8	3.81	
 Light Cutting	VNMG160404-SH	●	9.525	4.76	0.4	3.81	
	160408-SH	●	9.525	4.76	0.8	3.81	
 Medium Cutting	VNMG160404-MP	●	9.525	4.76	0.4	3.81	
	160408-MP	●	9.525	4.76	0.8	3.81	
	160412-MP	●	9.525	4.76	1.2	3.81	


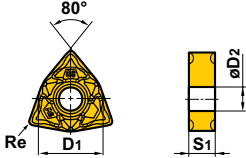

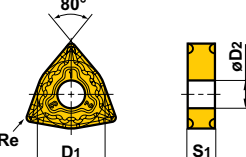

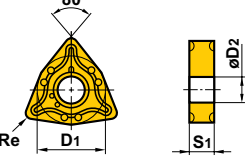

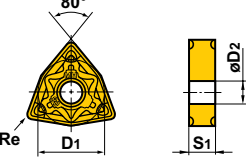

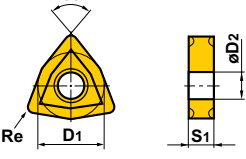

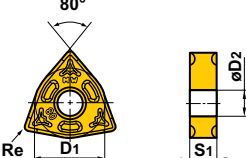
● : Inventory maintained.

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
MA  Medium Cutting	VNMG160404-MA	●	9.525	4.76	0.4	3.81	
	160408-MA	●	9.525	4.76	0.8	3.81	
MH  Medium Cutting	VNMG160404-MH	●	9.525	4.76	0.4	3.81	
	160408-MH	●	9.525	4.76	0.8	3.81	
Standard  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	
MS  Medium Cutting	VNMG160404-MS	●	9.525	4.76	0.4	3.81	
	160408-MS	●	9.525	4.76	0.8	3.81	
FH  Finish Cutting	WNMG080404-FH	●	12.7	4.76	0.4	5.16	
	080408-FH	●	12.7	4.76	0.8	5.16	
NEW LP  Light Cutting	WNMG06T304-LP	●	9.525	3.97	0.4	3.81	
	06T308-LP	●	9.525	3.97	0.8	3.81	
	060404-LP	●	9.525	4.76	0.4	3.81	
	060408-LP	●	9.525	4.76	0.8	3.81	
	080404-LP	●	12.7	4.76	0.4	5.16	
	080408-LP	●	12.7	4.76	0.8	5.16	
	080412-LP	●	12.7	4.76	1.2	5.16	
SH  Light Cutting	WNMG06T304-SH	●	9.525	3.97	0.4	3.81	
	06T308-SH	●	9.525	3.97	0.8	3.81	
	060404-SH	●	9.525	4.76	0.4	3.81	
	060408-SH	●	9.525	4.76	0.8	3.81	
	080404-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	
SA  Light Cutting	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	


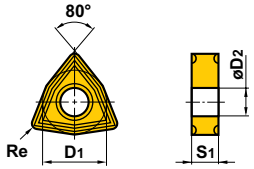

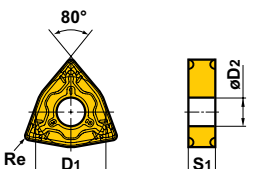

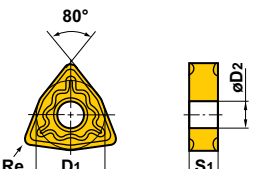
UE6110

INSERTS


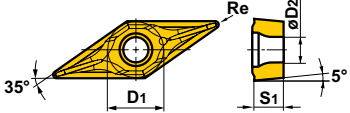

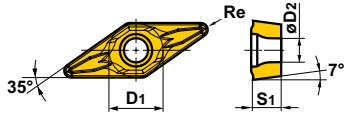

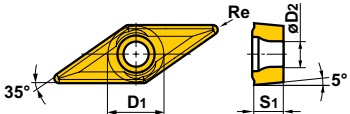

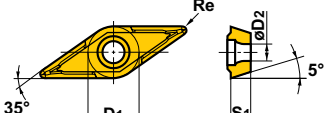
● Negative Inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
 Light Cutting (Wiper)	WNMG060404-SW	●	9.525	4.76	0.4	3.81	
	060408-SW	●	9.525	4.76	0.8	3.81	
	080404-SW	●	12.7	4.76	0.4	5.16	
	080408-SW	●	12.7	4.76	0.8	5.16	
	080412-SW	●	12.7	4.76	1.2	5.16	
 Medium Cutting	WNMG06T304-MP	●	9.525	3.97	0.4	3.81	
	06T308-MP	●	9.525	3.97	0.8	3.81	
	06T312-MP	●	9.525	3.97	1.2	3.81	
	060404-MP	●	9.525	4.76	0.4	3.81	
	060408-MP	●	9.525	4.76	0.8	3.81	
	060412-MP	●	9.525	4.76	1.2	3.81	
	080404-MP	●	12.7	4.76	0.4	5.16	
	080408-MP	●	12.7	4.76	0.8	5.16	
	080412-MP	●	12.7	4.76	1.2	5.16	
080416-MP	●	12.7	4.76	1.6	5.16		
 Medium Cutting	WNMG06T304-MA	●	9.525	3.97	0.4	3.81	
	06T308-MA	●	9.525	3.97	0.8	3.81	
	06T312-MA	●	9.525	3.97	1.2	3.81	
	060404-MA	●	9.525	4.76	0.4	3.81	
	060408-MA	●	9.525	4.76	0.8	3.81	
	060412-MA	●	9.525	4.76	1.2	3.81	
	080404-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		
 Medium Cutting	WNMG080404-MH	●	12.7	4.76	0.4	5.16	
	080408-MH	●	12.7	4.76	0.8	5.16	
	080412-MH	●	12.7	4.76	1.2	5.16	
 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	
 Medium Cutting (Wiper)	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.

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
 Medium Cutting	WNMG06T304-MS	●	9.525	3.97	0.4	3.81	
	06T308-MS	●	9.525	3.97	0.8	3.81	
	060404-MS	●	9.525	4.76	0.4	3.81	
	060408-MS	●	9.525	4.76	0.8	3.81	
	080404-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	
 Rough Cutting	WNMG080408-RP	●	12.7	4.76	0.8	5.16	
	080412-RP	●	12.7	4.76	1.2	5.16	
 Rough Cutting	WNMG080408-GH	●	12.7	4.76	0.8	5.16	
	080412-GH	●	12.7	4.76	1.2	5.16	


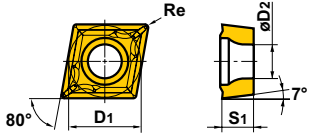

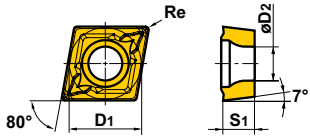

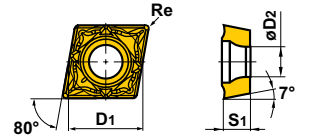

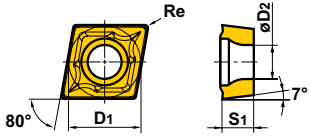

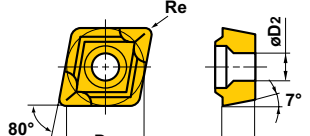


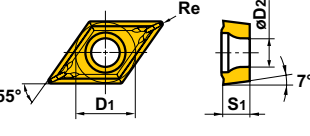
● 5° Positive inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
 Finish Cutting	VBMT110302-FP	●	6.35	3.18	0.2	2.9	
	110304-FP	●	6.35	3.18	0.4	2.9	
	110308-FP	●	6.35	3.18	0.8	2.9	
	160404-FP	●	9.525	4.76	0.4	4.4	
	160408-FP	●	9.525	4.76	0.8	4.4	
 Light Cutting	VBMT110304-LP	●	6.35	3.18	0.4	2.9	
	110308-LP	●	6.35	3.18	0.8	2.9	
	160404-LP	●	9.525	4.76	0.4	4.4	
	160408-LP	●	9.525	4.76	0.8	4.4	
 Medium Cutting	VBMT160404-MP	●	9.525	4.76	0.4	4.4	
	160408-MP	●	9.525	4.76	0.8	4.4	
 Medium Cutting	VBMT160404	●	9.525	4.76	0.4	4.43	
	160408	●	9.525	4.76	0.8	4.43	

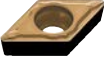
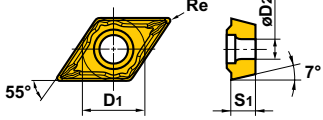

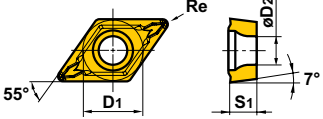

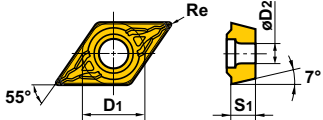

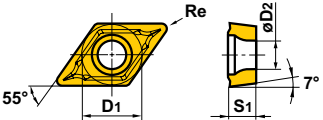
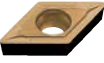
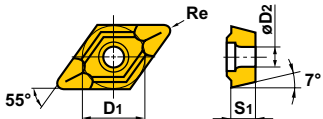

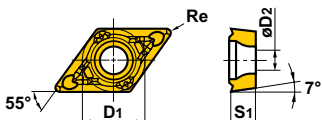


UE6110

INSERTS

● 7° Positive inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		UE6110	D1	S1	Re	D2	
 Finish Cutting	NEW CCMT060202-FP	●	6.35	2.38	0.2	2.8	
	060204-FP	●	6.35	2.38	0.4	2.8	
	09T302-FP	●	9.525	3.97	0.2	4.4	
	09T304-FP	●	9.525	3.97	0.4	4.4	
	09T308-FP	●	9.525	3.97	0.8	4.4	
 Light Cutting	NEW CCMT060204-LP	●	6.35	2.38	0.4	2.8	
	060208-LP	●	6.35	2.38	0.8	2.8	
	09T304-LP	●	9.525	3.97	0.4	4.4	
	09T308-LP	●	9.525	3.97	0.8	4.4	
 Light Cutting (Wiper)	CCMT060202-SW	●	6.35	2.38	0.2	2.8	
	060204-SW	●	6.35	2.38	0.4	2.8	
	09T302-SW	●	9.525	3.97	0.2	4.4	
	09T304-SW	●	9.525	3.97	0.4	4.4	
 Medium Cutting	NEW CCMT060204-MP	●	6.35	2.38	0.4	2.8	
	060208-MP	●	6.35	2.38	0.8	2.8	
	09T304-MP	●	9.525	3.97	0.4	4.4	
	09T308-MP	●	9.525	3.97	0.8	4.4	
	120404-MP	●	12.7	4.76	0.4	5.5	
	120408-MP	●	12.7	4.76	0.8	5.5	
	120412-MP	●	12.7	4.76	1.2	5.5	
 Medium Cutting	Standard CCMT060202	●	6.35	2.38	0.2	2.8	
	060204	●	6.35	2.38	0.4	2.8	
	060208	●	6.35	2.38	0.8	2.8	
	080302	●	7.94	3.18	0.2	3.4	
	080304	●	7.94	3.18	0.4	3.4	
	080308	●	7.94	3.18	0.8	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	
	 Medium Cutting (Wiper)	CCMT060208-MW	●	6.35	2.38	0.8	
09T304-MW		●	9.525	3.97	0.4	4.4	
09T308-MW		●	9.525	3.97	0.8	4.4	
120404-MW		●	12.7	4.76	0.4	5.5	
120408-MW		●	12.7	4.76	0.8	5.5	
 Finish Cutting	NEW DCMT070202-FP	●	6.35	2.38	0.2	2.8	
	070204-FP	●	6.35	2.38	0.4	2.8	
	11T302-FP	●	9.525	3.97	0.2	4.4	
	11T304-FP	●	9.525	3.97	0.4	4.4	
	11T308-FP	●	9.525	3.97	0.8	4.4	


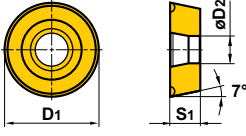

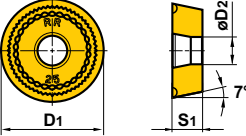

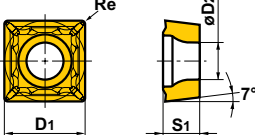

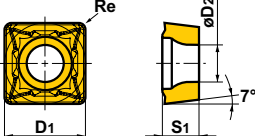

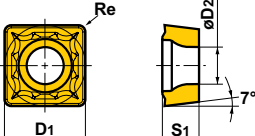

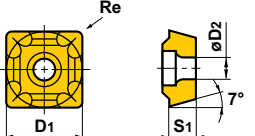

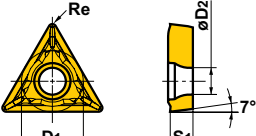

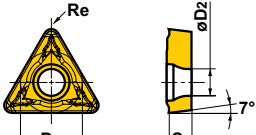
● : Inventory maintained.

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
 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	
 Light Cutting	DCMT070204-LP	●	6.35	2.38	0.4	2.8	
	070208-LP	●	6.35	2.38	0.8	2.8	
	11T304-LP	●	9.525	3.97	0.4	4.4	
	11T308-LP	●	9.525	3.97	0.8	4.4	
 Light Cutting	DCMT070204-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	
 Medium Cutting	DCMT070204-MP	●	6.35	2.38	0.4	2.8	
	070208-MP	●	6.35	2.38	0.8	2.8	
	11T304-MP	●	9.525	3.97	0.4	4.4	
	11T308-MP	●	9.525	3.97	0.8	4.4	
 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	
	11T312	●	9.525	3.97	1.2	4.4	
150404	●	12.7	4.76	0.4	5.5		
150408	●	12.7	4.76	0.8	5.5		
150412	●	12.7	4.76	1.2	5.5		
 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		
 Medium Cutting	RCMT0602M0	●	6	2.38	—	2.8	
	0803M0	●	8	3.18	—	3.4	


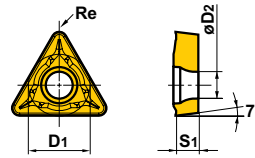

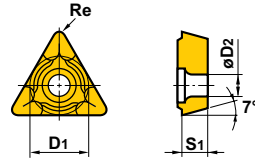

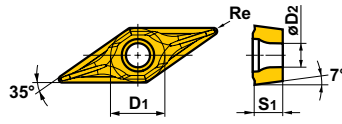

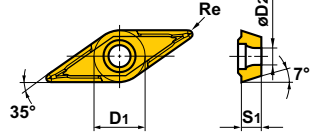

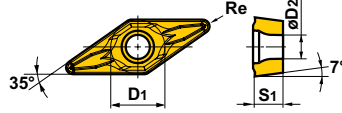

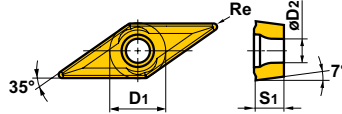

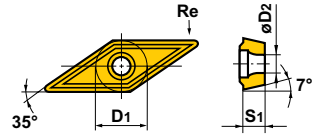
UE6110

INSERTS

● 7° Positive inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		UE6110	D1	S1	Re	D2	
 Medium Cutting	RCMX1003M0	●	10	3.18	—	3.6	
	1204M0	●	12	4.76	—	4.2	
	1606M0	●	16	6.35	—	5.2	
	2006M0	●	20	6.35	—	6.5	
	2507M0	●	25	7.94	—	7.2	
	3209M0	●	32	9.52	—	9.5	
 Medium Cutting	RCMX1606M0-RR	●	16	6.35	—	5.2	
	2006M0-RR	●	20	6.35	—	6.5	
	2507M0-RR	●	25	7.94	—	7.2	
	3209M0-RR	●	32	9.52	—	9.5	
 Finish Cutting	SCMT09T304-FP	●	9.525	3.97	0.4	4.4	
	09T308-FP	●	9.525	3.97	0.8	4.4	
 Light Cutting	SCMT09T304-LP	●	9.525	3.97	0.4	4.4	
	09T308-LP	●	9.525	3.97	0.8	4.4	
 Medium Cutting	SCMT09T304-MP	●	9.525	3.97	0.4	4.4	
	09T308-MP	●	9.525	3.97	0.8	4.4	
	120404-MP	●	12.7	4.76	0.4	5.5	
	120408-MP	●	12.7	4.76	0.8	5.5	
 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	
 Finish Cutting	TCMT090202-FP	●	5.56	2.38	0.2	2.5	
	090204-FP	●	5.56	2.38	0.4	2.5	
	110202-FP	●	6.35	2.38	0.2	2.8	
	110204-FP	●	6.35	2.38	0.4	2.8	
	16T304-FP	●	9.525	3.97	0.4	4.4	
 Light Cutting	TCMT090204-LP	●	5.56	2.38	0.4	2.5	
	090208-LP	●	5.56	2.38	0.8	2.5	
	110204-LP	●	6.35	2.38	0.4	2.8	
	110208-LP	●	6.35	2.38	0.8	2.8	
	16T304-LP	●	9.525	3.97	0.4	4.4	
	16T308-LP	●	9.525	3.97	0.8	4.4	


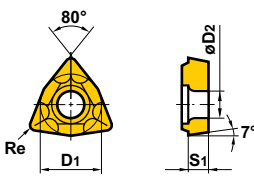
● : Inventory maintained.

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		<i>UE6110</i>	D1	S1	Re	D2	
 Medium Cutting	NEW MP TCMT090204-MP	●	5.56	2.38	0.4	2.5	
	090208-MP	●	5.56	2.38	0.8	2.5	
	110204-MP	●	6.35	2.38	0.4	2.8	
	110208-MP	●	6.35	2.38	0.8	2.8	
	130304-MP	●	7.94	3.18	0.4	3.4	
	16T304-MP	●	9.525	3.97	0.4	4.4	
	16T308-MP	●	9.525	3.97	0.8	4.4	
	16T312-MP	●	9.525	3.97	1.2	4.4	
 Medium Cutting	Standard TCMT090204	●	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	
	110208	●	6.35	2.38	0.8	2.8	
	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	
	16T312	●	9.525	3.97	1.2	4.4	
 Finish Cutting	NEW FP VCMT110302-FP	●	6.35	3.18	0.2	2.8	
	110304-FP	●	6.35	3.18	0.4	2.8	
	160404-FP	●	9.525	4.76	0.4	4.4	
	160408-FP	●	9.525	4.76	0.8	4.4	
 Finish Cutting	FV VCMT160404-FV	●	9.525	4.76	0.4	4.4	
	160408-FV	●	9.525	4.76	0.8	4.4	
 Light Cutting	NEW LP VCMT110304-LP	●	6.35	3.18	0.4	2.8	
	110308-LP	●	6.35	3.18	0.8	2.8	
	160404-LP	●	9.525	4.76	0.4	4.4	
	160408-LP	●	9.525	4.76	0.8	4.4	
 Medium Cutting	NEW MP VCMT160404-MP	●	9.525	4.76	0.4	4.4	
	160408-MP	●	9.525	4.76	0.8	4.4	
	160412-MP	●	9.525	4.76	1.2	4.4	
 Medium Cutting	Standard 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	


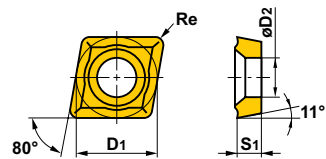
UE6110

INSERTS


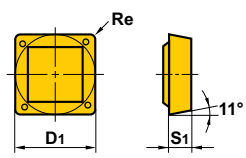

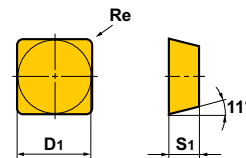
● 7° Positive inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		UE6110	D1	S1	Re	D2	
 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	


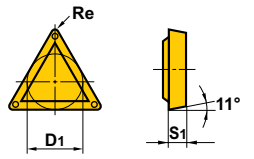

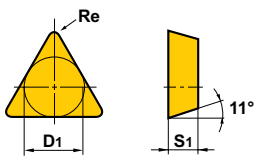
● 11° Positive inserts (With hole)

Shape	Order Number	Stock	Dimensions (mm)				Geometry
		UE6110	D1	S1	Re	D2	
 Medium Cutting	CPMX080204	●	7.94	2.38	0.4	3.5	
	080208	●	7.94	2.38	0.8	3.5	
	090304	●	9.525	3.18	0.4	4.6	
	090308	●	9.525	3.18	0.8	4.6	

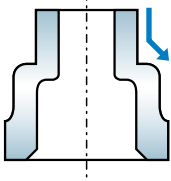
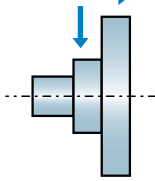
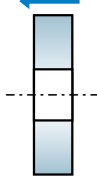
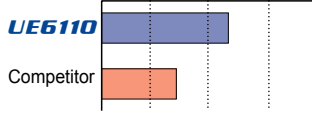
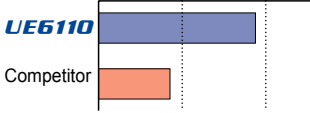

● 11° Positive inserts (Without hole)

Shape	Order Number	Stock	Dimensions (mm)			Geometry
		UE6110	D1	S1	Re	
 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	
	SPMN090308	●	9.525	3.18	0.8	
	120304	●	12.7	3.18	0.4	
	120308	●	12.7	3.18	0.8	
	120312	●	12.7	3.18	1.2	

● : Inventory maintained.

Shape	Order Number	Stock	Dimensions (mm)			Geometry
		UE6110	D1	S1	Re	
Standard  Light to Medium Cutting	TPMR110304	●	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	
Flat Top 	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	
	220404	●	12.7	4.76	0.4	
	220408	●	12.7	4.76	0.8	
	220412	●	12.7	4.76	1.2	

APPLICATION EXAMPLES

Insert		CNMG120416-MA	WNMG080412-MW	TNMG160408-RP
Workpiece		100Cr6 	41CrMo4 	25CrMo4 
Cutting Conditions	Cutting Speed (m/min)	240	210	250
	Feed (mm/min)	0.3 – 0.4	0.3	0.25
	Depth of Cut (mm)	3.0 – 4.0	3.0	2.0
Coolant		Wet cutting	Wet cutting	Wet cutting
Results		<p>Pieces/corner</p> <p>100 200 300</p>  <p>UE6110 achieved 1.5 times longer tool life without any abnormal wear due to its excellent wear resistance.</p>	<p>Pieces/corner</p> <p>10 20</p>  <p>UE6110 achieved more than double tool life.</p>	<p>UE6110 Competitor</p>  <p>UE6110 prevented crater wear because of its excellent wear resistance</p>



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