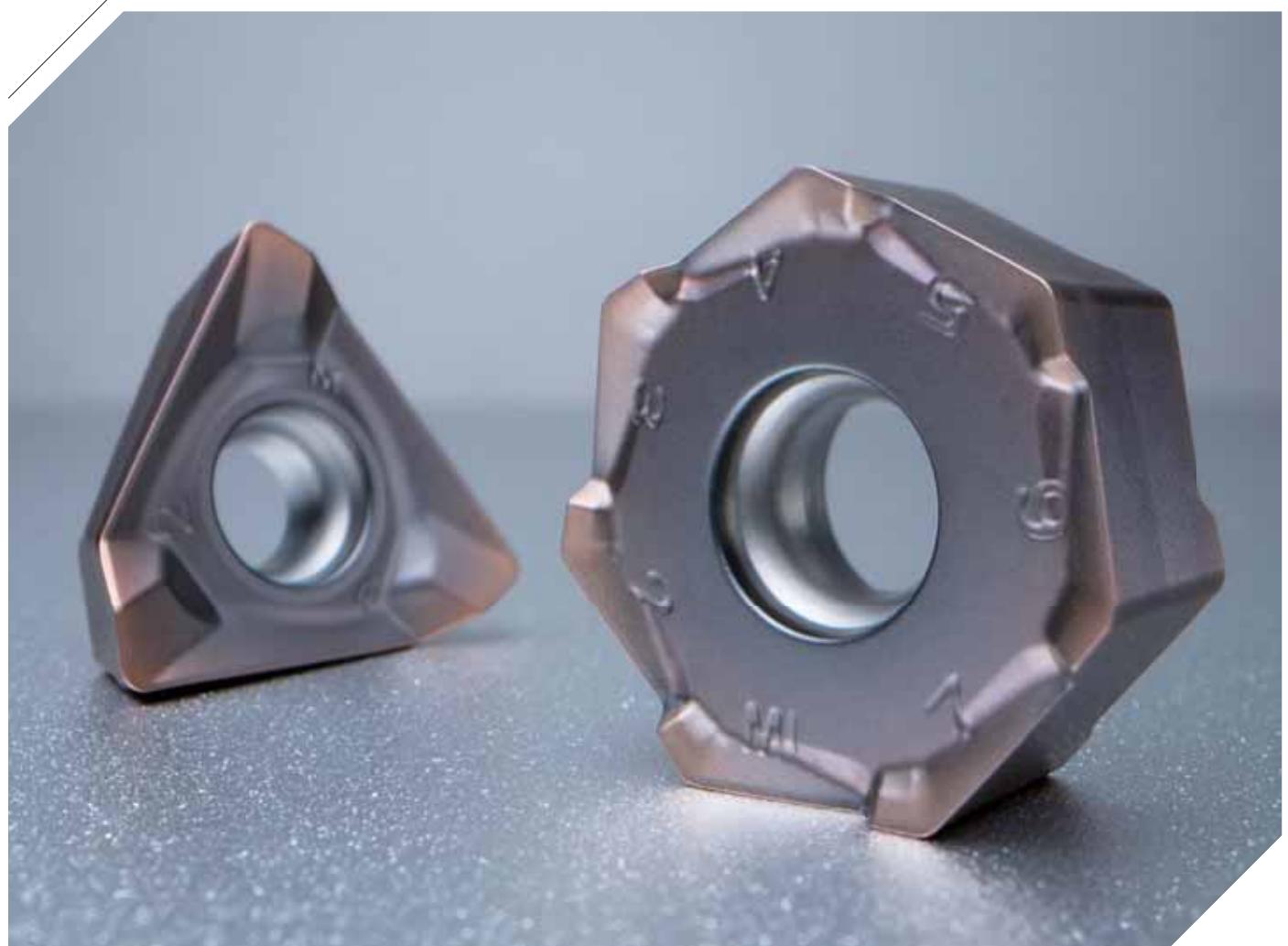


PC6100

PVD insert for cast iron Milling

- PVD Ion plus-Tech™ provides long tool life and stability
- The optimal substrate for cast iron cutting with coating adherence technology ensures regular tool life



PC6100

In cast iron machining, the formation of short, broken chips results in a lower load on the rake face of the insert, leading to slower wear progression. However, the relief surface, which comes into direct contact with the workpiece, experiences longer friction time and therefore wears out relatively quickly. Especially, nodular graphite cast iron, compared to gray cast iron, has high hardness and high toughness characteristics. During machining, it forms built-up edges and adhesion on the surface of the insert, causing uneven chipping. Additionally, to remove the dust generated during machining, wet machining is mainly used. The cutting fluid rapidly cools the heated insert, repeatedly subjecting the cutting edge surface to significant thermal shock, which causes thermal cracks and coating delamination on the cutting edge.

KORLOY launched PC6100, a grade for cast iron milling that can enhance productivity.

PC6100 applies a new coating technology called "Ion Plus - Tech™," which suppresses layer delamination and thermal crack formation, providing excellent tool life and reliability. Additionally, by using a substrate optimized for cast iron machining, it offers superior wear resistance and impact resistance.

Through this, PC6100 demonstrates excellent performance in cast iron machining under various conditions, and particularly in ductile cast iron machining, you will experience superior tool life and machining reliability.

» Good wear resistance and adherence of layer

- Individual PVD coating technology Ion Plus-Tech™

» Stable tool life

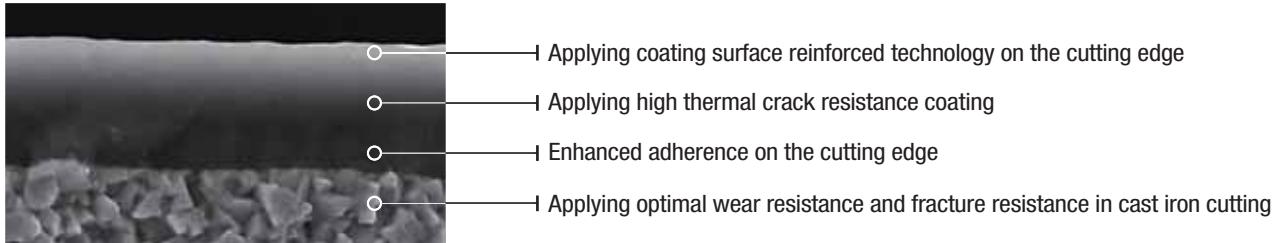
- Optimal wear resistance and fracture resistance substrate for cast iron cutting

» Reduced chipping and unexpected fracture

- Coating surface treatment



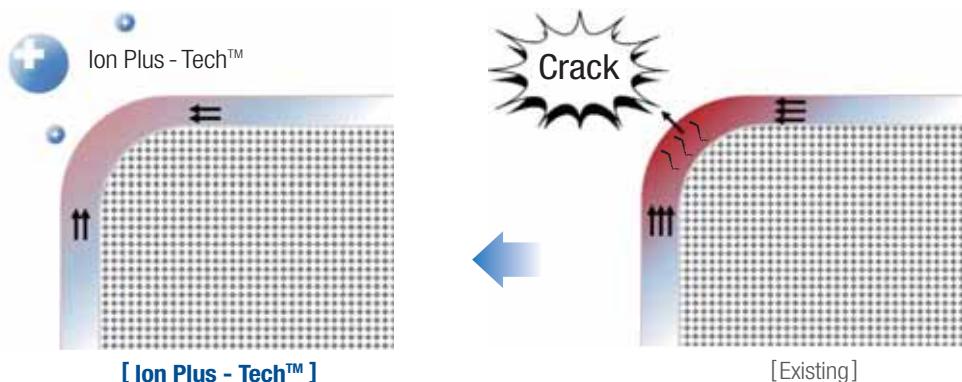
Features



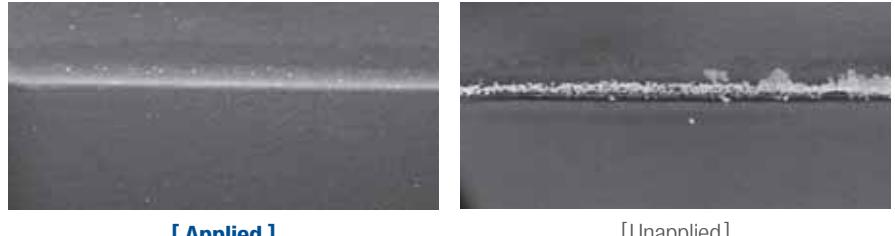
- Optimally designed PVD coating grade in cast iron milling
- Applying Ion Plus-Tech™ increasing hardness and adherence of layer ensures wear resistance and thermal crack resistance
- Coating surface treatment technology prevents chipping and unexpected fracture
- The optimal substrate for cast iron cutting enhances wear resistance and fracture resistance

Applying Ion Plus – Tech™

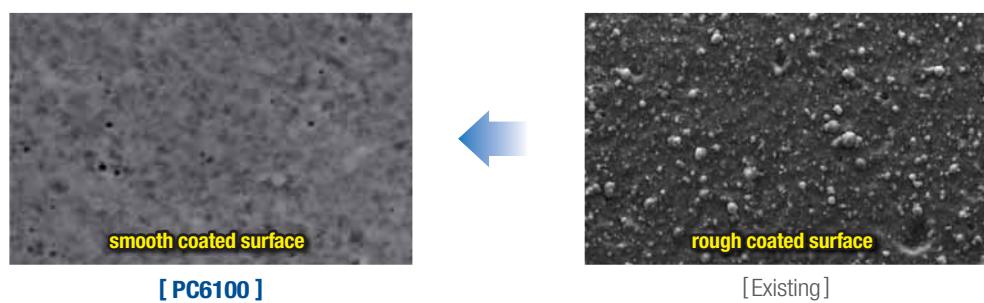
- Ion Plus - Tech™ : Exclusive PVD plasma coating reinforced technology increases adherence of layer and hardness



- Effect of applying Ion Plus - Tech™ (wear in cutting)



Applying smooth coating surface treatment technology



Recommended cutting conditions

Workpiece		ISO	KS	Specific cutting force (N/mm²)	Brinell hardness (HB)	Recommended cutting condition						
ISO	Workpiece materials					PC6100	Facing / shouldering	High feed cutting				
						vc (m/min)	fz (mm/t)*					
K	Gray cast iron	Low Tensile	150 250	GC150 GC250	900	≤ 212 ≤ 248	130	0.3	1.3			
							210	0.2	0.8			
		High Tensile	300 350	GC300 GC350	1100 1300	≤ 262 ≤ 277	280	0.1	0.3			
	Ductile cast iron	Ferritic	400 500	GCD400 GCD500	1200	~ 210 $170\sim 241$	160	0.3	1.3			
							200	0.2	0.8			
		Pearlitic	600 700	GCD600 GCD700	1440 1650	192~269 229~302	240	0.1	0.3			
*: The recommended feed conditions could be different depending on items												

* : The recommended feed conditions could be different depending on items

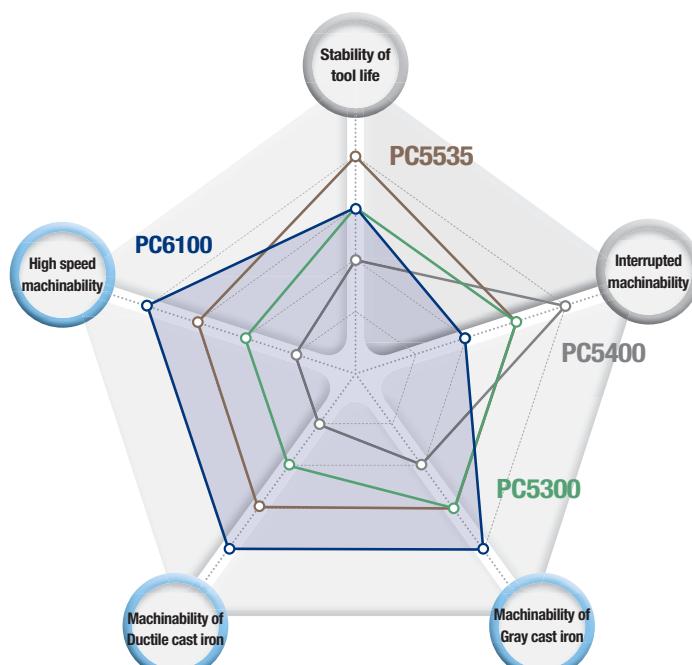
Application guide_ Engine block

Specification	General cutting	For medium interrupted	For high interrupted cutting
Grade	PC6100	PC6100	PC5535
Workpiece materials	Gray cast iron, Ductile cast iron	Gray cast iron, Ductile cast iron	Gray cast iron, Ductile cast iron
Cutting type	General cutting for wide area of workpiece	Interrupted cutting for various cutting types	Unstable cutting with high interruption
Cutting part	Top & Bottom face 	Front & Rear face 	Bosses 

Application guide_ Crank shaft, Knuckle, and Caliper housing

Specification	Crank shaft	Knuckle		Caliper housing	
Grade	PC6100	PC6100	PC5535	PC6100	PC5535
Workpiece materials	Ductile cast iron		Ductile cast iron		Ductile cast iron
Cutting type	High speed and dry cutting	High speed and interrupted cutting	Medium and low speed, interrupted cutting	High speed and interrupted cutting	Medium and low speed, interrupted cutting
Cutting part					

✓ Grade selection guide for cast iron milling



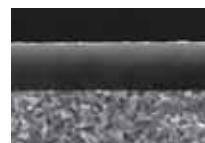
PC6100 *(New)*

- Good for high speed and high feed cutting
- For universal cutting
- 1st recommended grade



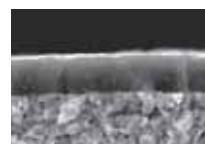
PC5535

- High stable tool life
- For Medium interrupted cutting ~ interrupted cutting
- 2nd recommended grade



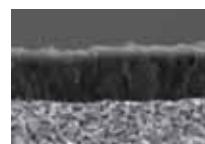
PC5300

- Balanced chipping resistance and wear resistance
- For Medium interrupted cutting ~ interrupted cutting



PC5400

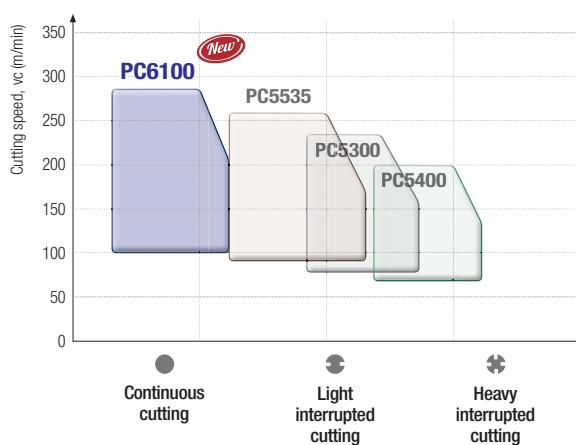
- Good chipping resistance and fracture resistance
- For interrupted cutting



Grade	Stability of tool life	Interrupted machinability	Machinability of Gray cast iron	Machinability of Ductile cast iron	High speed machinability
PC6100 <i>(New)</i>					
PC5535					
PC5300					
PC5400					

✓ Application range

K Cast iron



Performance evaluation

Ductile cast iron (600)

Cutting conditions vc (m/min) = 200, fz (mm/t) = 0.2, ap (mm) = 2.0, wet

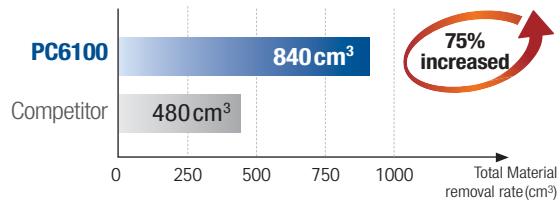
Tool **Insert** SNMX1206ANN-MF (PC6100) **Holder** RM8ACM4125HR-M



[PC6100]



[Competitor]



- Material removal rate Q (cm³/min) : 40

- Cutting time (min) : 21

Ductile cast iron (600)

Cutting conditions vc (m/min) = 150, fz (mm/t) = 0.2, ap (mm) = 2.0, wet

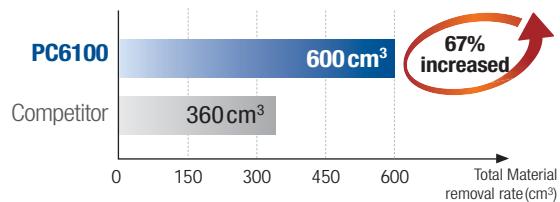
Tool **Insert** ADKT170608PESR-MF (PC6100) **Holder** AMXS032R-3W32-125-AD17



[PC6100]



[Competitor]



- Material removal rate Q (cm³/min) : 30

- Cutting time (min) : 21

Ductile cast iron (450)

Cutting conditions vc (m/min) = 250, fz (mm/t) = 0.28, ap (mm) = 2.0, wet

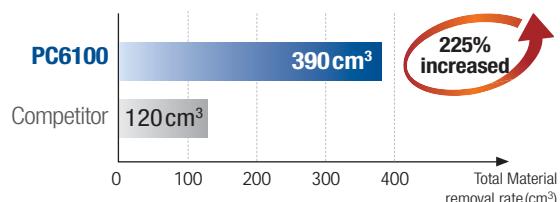
Tool **Insert** SNMX1206ANN-MF (PC6100) **Holder** RM8ACM4125HR-M



[PC6100]



[Competitor]



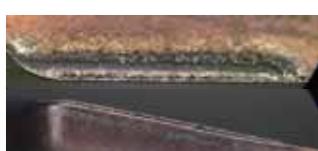
- Material removal rate Q (cm³/min) : 50

- Cutting time (min) : 7.8

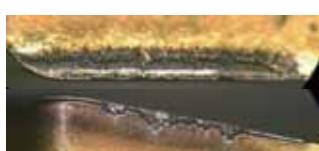
Gray cast iron (250)

Cutting conditions vc (m/min) = 230, fz (mm/t) = 0.26, ap (mm) = 2.0, wet

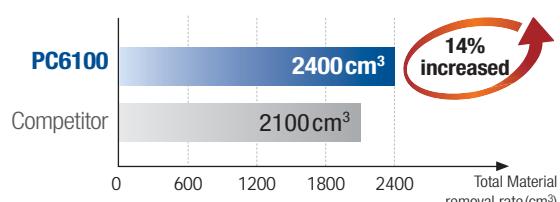
Tool **Insert** SNMX1206ANN-MF (PC6100) **Holder** RM8ACM4125HR-M



[PC6100]



[Competitor]



- Material removal rate Q (cm³/min) : 46

- Cutting time (min) : 52.2

Application examples

Bimaterial (Gray cast iron + Aluminum)

Workpiece use	Cylinder block (Automobile)								
Cutting conditions	$vc(m/min) = 314$, $fz(mm/t) = 0.1$, $ap(mm) = 0.75$, wet								
Tool	Insert SNEX1206QNN-MF (PC6100) Holder RM8QCM4100HR-H								
	 <p>PC6100</p> <table border="1"> <tr> <td>Competitor</td> <td>300 EA/Corner</td> </tr> <tr> <td>PC6100</td> <td>250 EA/Corner</td> </tr> </table> <p>20% increased</p>	Competitor	300 EA/Corner	PC6100	250 EA/Corner				
Competitor	300 EA/Corner								
PC6100	250 EA/Corner								
	<table border="1"> <thead> <tr> <th>Type</th> <th>Facing</th> <th>Interruption</th> <th>Continuous</th> </tr> </thead> <tbody> <tr> <td>Overhang</td> <td>Short</td> <td>Clamping</td> <td>Stable</td> </tr> </tbody> </table> <p>» Cutting 20% more than competitive</p>	Type	Facing	Interruption	Continuous	Overhang	Short	Clamping	Stable
Type	Facing	Interruption	Continuous						
Overhang	Short	Clamping	Stable						

Ductile cast iron (500)

Workpiece use	Caliper housing (Automobile)								
Cutting conditions	$vc(m/min) = 180$, $fz(mm/t) = 0.17$, $ap(mm) = 2.5$, wet								
Tool	Insert OFKR0704SN-MF (PC6100) Holder AFOM5080R								
	 <p>PC6100</p> <table border="1"> <tr> <td>Competitor</td> <td>40 EA/Corner</td> </tr> <tr> <td>PC6100</td> <td>30 EA/Corner</td> </tr> </table> <p>33% increased</p>	Competitor	40 EA/Corner	PC6100	30 EA/Corner				
Competitor	40 EA/Corner								
PC6100	30 EA/Corner								
	<table border="1"> <thead> <tr> <th>Type</th> <th>Facing</th> <th>Interruption</th> <th>Low interruption</th> </tr> </thead> <tbody> <tr> <td>Overhang</td> <td>Short</td> <td>Clamping</td> <td>Stable</td> </tr> </tbody> </table> <p>» Cutting 33% more than competitive</p>	Type	Facing	Interruption	Low interruption	Overhang	Short	Clamping	Stable
Type	Facing	Interruption	Low interruption						
Overhang	Short	Clamping	Stable						

Ductile cast iron (450)

Workpiece use	Bearing cap								
Cutting conditions	$vc(m/min) = 176$, $fz(mm/t) = 0.24$, $ap(mm) = 3.5$, wet								
Tool	Insert SNMX1206ANN-MM (PC6100) Holder RM8AC4080HR								
	 <p>PC6100</p> <table border="1"> <tr> <td>Competitor</td> <td>0.6 day/Corner</td> </tr> <tr> <td>PC6100</td> <td>0.5 day/Corner</td> </tr> </table> <p>20% increased</p>	Competitor	0.6 day/Corner	PC6100	0.5 day/Corner				
Competitor	0.6 day/Corner								
PC6100	0.5 day/Corner								
	<table border="1"> <thead> <tr> <th>Type</th> <th>Facing</th> <th>Interruption</th> <th>Continuous</th> </tr> </thead> <tbody> <tr> <td>Overhang</td> <td>Medium</td> <td>Clamping</td> <td>Normal</td> </tr> </tbody> </table> <p>» Cutting 20% more than competitive</p>	Type	Facing	Interruption	Continuous	Overhang	Medium	Clamping	Normal
Type	Facing	Interruption	Continuous						
Overhang	Medium	Clamping	Normal						

Ductile cast iron (450)

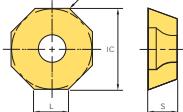
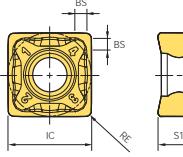
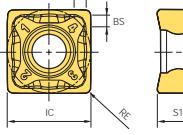
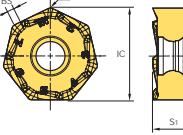
Workpiece use	Knuckle (Automobile)								
Cutting conditions	$vc(m/min) = 200$, $fz(mm/t) = 0.15$, $ap(mm) = 1$, wet								
Tool	Insert SNEX120620-MF (PC6100) Holder RM8QCM4080HR-SN12-Z6								
	 <p>PC6100</p> <table border="1"> <tr> <td>Competitor</td> <td>200 EA/Corner</td> </tr> <tr> <td>PC6100</td> <td>150 EA/Corner</td> </tr> </table> <p>33% increased</p>	Competitor	200 EA/Corner	PC6100	150 EA/Corner				
Competitor	200 EA/Corner								
PC6100	150 EA/Corner								
	<table border="1"> <thead> <tr> <th>Type</th> <th>Shouldering</th> <th>Interruption</th> <th>Medium interruption</th> </tr> </thead> <tbody> <tr> <td>Overhang</td> <td>Short</td> <td>Clamping</td> <td>Unstable</td> </tr> </tbody> </table> <p>» Cutting 33% more than competitive</p>	Type	Shouldering	Interruption	Medium interruption	Overhang	Short	Clamping	Unstable
Type	Shouldering	Interruption	Medium interruption						
Overhang	Short	Clamping	Unstable						

Stock items

Type	Picture	Designation	Coated PC6100	Dimension(mm)							Geometry
				INSL	IC	S	RE	BS	APMX	KAPR	
Mill Max		TPCN 1603PDER-RH 1603PDSR-RH 2204PDER-RH 2204PDSR-RH		16.5	9.525	1.59	0.8	1.5	13	90	
				16.5	9.525	2.38	0.8	1.5	13	90	
				22	12.7	4.76	0.8	1.79	18	90	
				22	12.7	4.76	0.8	1.79	18	90	
FMA		SPCN 1203EDER-RH 1203EDSR-RH 1504EDER-RH 1504EDSR-RH		12.7	12.7	3.18	0.8	1.63	9	75	
				12.7	12.7	3.18	0.8	1.63	9	75	
				15.875	15.875	4.76	-	1.64	12	75	
				15.875	15.875	4.76	-	1.64	12	75	
Double Mill		SNKN 1204ENN		12.7	12.7	4.76	-	1.26	-	75	
				12.7	12.7	4.76	-	1.26	-	75	
				12.7	12.7	3.18	0.8	2.36	5.5	45	
				15.875	15.875	4.76	1.0	2.4	7.5	45	
FMA		SDCN 1504AESN-RH 1504AEEN-RH		15.875	15.875	4.76	1	1.43	8	45	
				15.875	15.875	4.76	1	1.43	8	45	
				15.875	15.875	4.76	1	1.43	8	45	
				15.875	15.875	4.76	1	1.43	8	45	
Double Mill		SEXT 0903AGSN-MM 0903AGSN-MF 14M4AGSN-MM 14M4AGSN-MF		9.525	9.525	3.18	0.8	1.44	4	45	
				9.525	9.525	3.18	0.8	1.44	4	45	
				14	14	4	0.8	1.81	6.5	45	
				14	14	4	0.8	1.81	6.5	45	
FMA		SEEW 14M4AGTN-W		14	14	4	0.8	1.81	6.5	45	
				14	14	4	0.8	1.81	6.5	45	
				9.525	14	4	0.8	1.81	6.5	45	
				9.525	9.525	3.18	0.8	1.44	4	45	
Double Mill		SEET 0903AGSN-MM 0903AGSN-MF 14M4AGSN-MM 14M4AGSN-MF		14	14	4	0.8	1.81	6.5	45	
				14	14	4	0.8	1.81	6.5	45	
				14	9.525	3.18	0.8	1.44	4	45	
				14	9.525	3.18	0.8	1.44	4	45	
Double Mill		OFKR 0704SN-MM		17.941	18	4.76	0.5	1.8	7.4	90	
				18.02	18	4.86	0.5	1.8	7.4	90	
Double Mill		OFCN 0704SN		18.02	18	4.86	0.5	1.8	7.4	90	
				18.02	18	4.86	0.5	1.8	7.4	90	

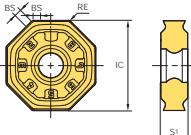
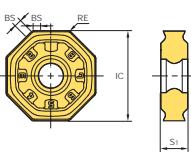
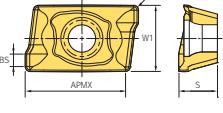
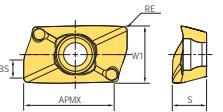
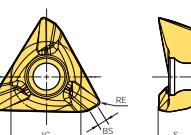
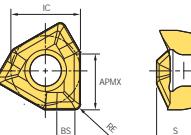
: Stock item

 Stock items

Type	Picture	Designation	Coated PC6100	Dimension(mm)							Geometry
				INSL	IC	S	RE	BS	APMX	KAPR	
Double Mill		OFKT 05T3SN-MF		12.724	12.7	3.85	0.5	1.5	5.2	90	
RM8		SNMX 120612-MF		12.7	12.7	6.35	1.2	-	11.5	88	
		120612-MM		12.7	12.7	6.35	1.2	-	11.5	88	
		1206ANN-MF		12.7	12.7	6.35	0.8	1.56	6	45	
		1206ANN-MM		12.7	12.7	6.35	0.8	1.56	6	45	
		1206ENN-MF		12.7	12.7	6.35	1	1.32	9	75	
		1206ENN-MM		12.7	12.7	6.35	1	1.32	9	75	
		1206QNN-MF		12.7	12.7	6.35	0.8	1.394	11.5	88	
		1206QNN-MM		12.7	12.7	6.35	0.8	1.394	11.5	88	
		1507ANN-MF		15.875	15.875	7.94	0.8	2.36	7.5	45	
		1507ANN-MM		15.875	15.875	7.94	0.8	2.36	7.5	45	
		1507ENN-MF		15.875	15.875	7.94	1	2.16	11	75	
		1507ENN-MM		15.875	15.875	7.94	1	2.16	11	75	
		SNEX 120612-MF		12.7	12.7	6.35	1.2	-	11.5	88	
		120612-MM		12.7	12.7	6.35	1.2	-	11.5	88	
RM8-X		1206ANN-MF		12.7	12.7	6.35	0.8	1.56	6	45	
		1206ANN-MM		12.7	12.7	6.35	0.8	1.56	6	45	
		1206ENN-W		12.7	12.7	6.35	1	7.63	6	45	
		1206ENN-MF		12.7	12.7	6.35	1	1.32	9	75	
		1206ENN-MM		12.7	12.7	6.35	1	1.32	9	75	
		1206QNN-MF		12.7	12.7	6.35	0.8	1.394	11.5	88	
		1206QNN-MM		12.7	12.7	6.35	0.8	1.394	11.5	88	
		1507ANN-MF		15.875	15.875	7.94	0.8	2.36	7.5	45	
		1507ANN-MM		15.875	15.875	7.94	0.8	2.36	7.5	45	
		1507ENN-MF		15.875	15.875	7.94	1	2.16	11	75	
RM14		SNMX 140808ANER-MM		-	14	6.56	0.8	1.21	5.5	45	
		SAGX 140808ANER-ML		-	14	6.56	0.8	1.21	5.5	45	
		140808ANER-MM		-	14	6.56	0.8	1.21	5.5	45	
		XNMX 0606XNR-ML		14.665	14	6.5	0.8	1.0	3.5	51.4	
		0606XNR-MM		14.665	14	6.5	0.8	1.0	3.5	51.4	

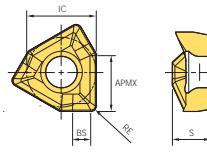
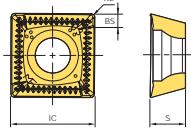
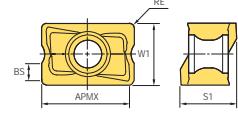
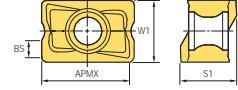
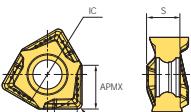
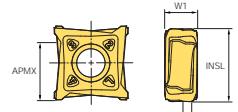
: Stock item

Stock items

Type	Picture	Designation	Coated PC6100	Dimension (mm)							Geometry
				INSL	IC/W1	S	RE	BS	APMX	KAPR	
RM16	A hexagonal nut with a central hole and a serrated outer edge.	ONMX	060608-MF	-	16	6	0.8	-	4	45	 Technical drawing showing the top view of the tool with dimensions: BS, RE, IC, S1, INSL, IC/W1, S, RE, BS, APMX, KAPR. A side view shows the profile with S1.
			060608-MM	-	16	6	0.8	-	4	45	
			0606ANN-MF	-	16	6	0.8	1.035	4	45	
			0606ANN-MM	-	16	6	0.8	1.035	4	45	
			080608-MF	-	16	6	0.8	-	4	45	
			080608-MM	-	20.2	6	0.8	-	5.5	45	
			0806ANN-MF	-	20.2	6	0.8	1.531	5.5	45	
			0806ANN-MM	-	20.2	6	0.8	1.531	5.5	45	
		ONHX	060608-MM	-	16	6	0.8	-	4	45	 Technical drawing showing the top view of the tool with dimensions: BS, RE, IC, S1, INSL, IC/W1, S, RE, BS, APMX, KAPR. A side view shows the profile with S1.
			060608-W	-	16	6	0.8	6.036	4	45	
			0606ANN-MF	-	16	6	0.8	1.035	4	45	
			0606ANN-MM	-	16	6	0.8	1.035	4	45	
			080608-MF	-	20.2	6	0.8	-	5.5	45	
			080608-MM	-	20.2	6	0.8	-	5.5	45	
			0806ANN-MF	-	20.2	6	0.8	1.531	5.5	45	
			0806ANN-MM	-	20.2	6	0.8	1.531	5.5	45	
Alpha Mill	A square-shaped carbide insert with a central hole and a serrated edge.	APMT	0602PDSR-MM	6.79	4.24	2.6	0.4	0.9	6	90	 Technical drawing showing the top view of the tool with dimensions: BS, RE, IC, W1, APMX, S, INSL, IC/W1, S, RE, BS, APMX, KAPR. A side view shows the profile with S.
			0903PDSR-MM	10.84	6.21	3.6	0.4	0.9	9.4	90	
			11T3PDSR-MF	12.045	6.467	3.6	0.5	1.2	11.2	90	
			11T3PDSR-MM	12.045	6.467	3.6	0.5	1.2	11.2	90	
			1604PDSR-MF	17.62	9.41	5.76	0.8	1.1	16.4	90	
			1604PDSR-MM	17.62	9.41	5.76	0.8	1.1	16.4	90	
			1806PDSR-MF	18.7	10.98	6.35	0.8	2.2	17.4	90	
			1806PDSR-MM	18.7	10.98	6.35	0.8	2.2	17.4	90	
Alpha Mill-X	A square-shaped carbide insert with a central hole and a serrated edge.	ADKT	10T304PEER-ML	11.7	6.424	3.819	0.4	0.96	9.5	90	 Technical drawing showing the top view of the tool with dimensions: BS, RE, IC, W1, APMX, S, INSL, IC/W1, S, RE, BS, APMX, KAPR. A side view shows the profile with S.
			10T304PESR-MM	11.7	6.424	3.819	0.4	0.96	9.5	90	
			120408PESR-ML	14.5	7.813	4.824	0.8	1.71	11.5	90	
			120408PESR-MM	14.5	7.813	4.824	0.8	1.71	11.5	90	
			120412PESR-MM	14.5	7.813	4.824	1.2	1.21	11.5	90	
			120416PESR-MM	14.5	7.813	4.824	1.6	0.85	11.5	90	
			170608PESR-ML	19.665	10.843	6.529	0.8	3.5	16.5	90	
			170608PESR-MM	19.665	10.843	6.529	0.8	3.3	16.5	90	
Triple Mill	A triangular tungsten carbide insert with a central hole and a serrated edge.	TNKT	110508PESR-MM	8	8	4.5	0.8	1.299	8	90	 Technical drawing showing the top view of the tool with dimensions: BS, RE, IC, S, INSL, IC/W1, S, RE, BS, APMX, KAPR. A side view shows the profile with S.
			160608PESR-MM	11.5	11.7	5.5	0.8	1.517	11.5	90	
			200708PESR-MM	15.5	14.5	7	0.8	2	15.5	90	
RM3	A triangular tungsten carbide insert with a central hole and a serrated edge.	XNKT	060405PNER-ML	-	6.5	4	0.5	1.3	5.7	90	 Technical drawing showing the top view of the tool with dimensions: BS, RE, IC, S, INSL, IC/W1, S, RE, BS, APMX, KAPR. A side view shows the profile with S.
			060405PNSR-MM	-	6.5	4	0.5	1.3	5.7	90	
			060408PNER-ML	-	6.5	4	0.8	1.1	5.7	90	
			060408PNSR-MM	-	6.5	4	0.8	1.1	5.7	90	
			080508PNER-ML	-	10	5.5	0.8	2.2	8.2	90	

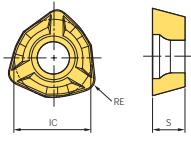
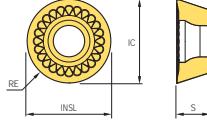
: Stock item

 Stock items

Type	Picture	Designation	Coated PC6100	Dimension(mm)							Geometry
				INSL	IC/W1	S	RE	BS	APMX	KAPR	
RM3		XNKT 080508PNSR-MM		-	10	5.5	0.8	2.2	8.2	90	
		120608PNER-ML		-	13	6.5	0.8	2.76	12	90	
		120608PNSR-MM		-	13	6.5	0.8	2.76	12	90	
FMP		SDXT 09M405L-MM		-	9.525	3.923	0.5	0	7	90	
		09M405R-MF		-	9.525	3.923	0.5	0	7	90	
		09M405R-MM		-	9.525	3.923	0.5	0	7	90	
		130508R-MF		-	13.5	5.56	0.8	0	11	90	
		130508R-MM		-	9.525	3.923	0.3	0	7	90	
RM4		LNEX 100605PNL-MM		9	6.5	6.5	0.5	1.7	9	90	
		100605PNR-MF		9	6.5	6.5	0.5	1.7	9	90	
		100605PNR-MM		9	6.5	6.5	0.5	1.7	9	90	
		100608PNR-MM		9	6.5	6.5	0.8	1.4	9	90	
		151004PNR-MF		14	10	10	0.4	3.1	14	90	
		151004PNR-MM		14	10	10	0.4	3.1	14	90	
		151008PNL-MM		14	10	10	0.8	2.7	14	90	
		151008PNR-MF		14	10	10	0.8	2.7	14	90	
		151008PNR-MM		14	10	10	0.8	2.7	14	90	
		151016PNR-MF		14	10	10	1.6	1.9	14	90	
		LNMX 100605PNL-MM		9	6.5	6.5	0.5	1.7	9	90	
		100605PNR-MF		9	6.5	6.5	0.5	1.7	9	90	
		100605PNR-MM		9	6.5	6.5	0.5	1.7	9	90	
		100608PNR-MF		9	6.5	6.5	0.8	1.4	9	90	
		151004PNR-MF		14	10	10	0.4	3.1	14	90	
		151004PNR-MM		14	10	10	0.4	3.1	14	90	
		151008PNR-MF		14	10	10	0.8	2.7	14	90	
		151008PNR-MM		14	10	10	0.8	2.7	14	90	
		151016PNR-MF		14	10	10	1.6	1.9	14	90	
RM6		WNGX 040304PNER-ML		-	7	3.46	0.4	1.6	4.3	90	
		040304PNSR-MM		-	7	3.46	0.4	1.6	4.3	90	
		080608PNER-ML		-	13	6.4	0.8	3.7	8.2	90	
		080608PNSR-MM		-	13	6.4	0.8	3.7	8.2	90	
TP8P		SOKX 1406XPNR-ML		14.47	12.05	6.56	0	1.35	11	90	
		140608PNR-ML		14.47	12.05	6.56	0.8	1.69	11	90	

: Stock item

Stock items

Type	Picture	Designation	Coated PC6100	Dimension (mm)							Geometry
				INSL	IC/W1	S	RE	BS	APMX	KAPR	
HRM		WDKT	080316ZDSR-MH	1	8	3.18	1.6	-	1	15	
			10T320ZDSR-MH	1.5	10	3.97	2	-	1.5	15	
			130520ZDSR-MH	2	13	5.56	2	-	2	15	
			150625ZDSR-MH	2.5	15	6.35	2.5	-	2.5	15	
FMR		RDKT	10T3M0-MM	-	10	3.97	-	-	-	-	
			1204M0-MM	-	12	4.76	-	-	-	-	

: Stock item

For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the inserts can be pulled out due to centrifugal force while high speed machining.



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