



CNC Insert 切削刀片

Zhuzhou Jat Cemented Carbide Co.,Ltd

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企业简介 Brief Introduction

株洲捷特硬质合金有限公司是中国的一家生产销售一体硬质合金工贸企业，集合国内硬质合金数控刀具、矿山工具、特种硬质合金行业优势资源，捷尽所能是经营理念、特殊定制发挥株洲硬质合金行业优势，真诚为国内和海外提供一流客户服务！

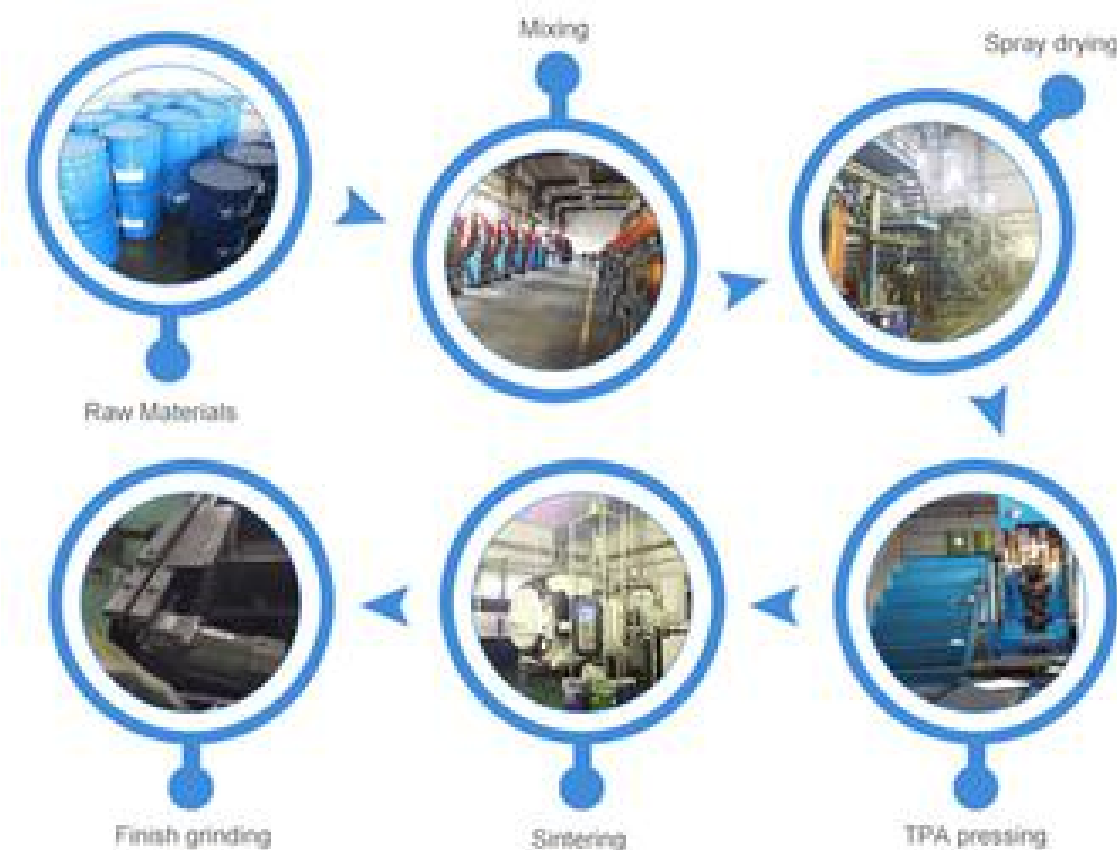
株洲捷特硬质合金有限公司其产品涉及到模具、矿山、机械、石油和IT产业等不同的领域。无论是材料还是异型产品，都能保证其质量是高于市场水平的。

有任何需求欢迎您的来电！

Zhuzhou Jat cemented carbide co., LTD in China who is a manufacturing & Trading combo, the main product items is CNC cutting tools, mining tools, special cemented carbide industry advantage resources,.Try our best is management idea, take the advantage for special customised of zhuzhou cemented carbide industry, sincere for domestic and abroad to provide first-class customer service!

The products of Zhuzhou Jat cemented carbide co., Ltd cover various fields such as mould, mining, machinery, petroleum and IT industry.No matter the material or the unusual product, can guarantee its quality is above the market level.

Welcome your contact with any request!



Catalogue 目录

CNC Inserts 数控刀片



Turning Insert 车削刀片



Milling Insert 铣削刀片



Welding Insert 焊接刀片

			P	M	K	N	S
			钢 Steel	不锈钢 Stainless Steel	铸铁 Cast Iron	有色金属 Aluminum Alloy	钛合金 耐热合金 Hi-temp Alloy
ISO Turning	普通车削	涂层 Coating	CVD	JT5320 JT5220 JT5350 JT5250 JT5450	JT1420	JT4230 JT4220D JT4520	
Threading	螺纹	涂层 Coating	PVD	JA2530	JA2520		JA2230
and Grooving	切断切槽 Parting	涂层 Coating	CVD			JT5350	
			PVD	JA2520	JA2520		
Milling	铣削	涂层 Coating	CVD	JT1550	JT1350 JT1340		
			PVD	JA2420 JA2520 JA5535	JA2520 JA2420	JA5535	JA2520
			硬质合金				

Grade 牌号	Hardness 硬度	Coating Type 涂层类型	Colour 颜色	Application 应用
JT5320	1530	CVD	Yellow 黄色	High cubic content gradient carbide substrate, gives good antideformation resistance and excellent high temperature performance. MT-TiCN+Al₂O₃+TiN coating has very good surface quality, and easy to recognize wear. Suitable for semifinishig to finishing steel machining. 高立方相含量梯度层硬质合金基体，有很好的抗塑性变形能力和优异的高温性能。MT-TiCN+Al₂O₃+TiN涂层，表层TiN涂层有很好的表面光洁度，并易于识别磨损。适用于钢件材料的半精加工到精加工。
JT5350	1480	CVD	Yellow 黄色	Relatively high cubic gradient carbide substrate, with good anti-deformation resistance and toughness.MT-TiCN+Al₂O₃+TiN coating has very good surface quality, and easy to recognize wear. Suitable for semifinishing to roughing steel machining. 较高立方相含量梯度层硬质合金基体，有很好的抗塑性变形能力和韧性。MT-TiCN+Al₂O₃+TiN涂层,表层TiN涂层有很好的表面光洁度，并易于识别磨损。适用于钢件材料的半精加工及粗加工。
JT5220	1530	CVD	Black 黑色	Low Cobalt content, and high cubic content carbide substratecombine with thick TiCN and Al₂O₃, treated by special after coating treatment, which gives insert wonderful wearing resistance. Preferred grade for semifinishing to finishing steel machining. 低Co高立方相含量硬质合金基体搭配较厚TiCN和较厚Al₂O₃涂层，经特殊后处理工艺，具有极好的耐磨性能。 钢类零件精加工及连续工况半精加工首选牌号；
JT5250	1480	CVD	Black 黑色	Low Cobalt content, and high cubic content carbide substrate combine with thick TiCN and Al₂O₃, treated by special after coating treatment, which gives insert wonderful wearing resistance. Preferred grade for semifinishing to finishing steel machining. 中Co高立方相含量硬质合金基体搭配较厚TiCN和较厚Al₂O₃涂层，经特殊后处理工艺，具有较好的耐磨性能。 钢件材料半精加工及粗加工的首选牌号；



CVD Coating CVD 涂层

Grade 牌号	Hardness 硬度	Coating Type 涂层类型	Colour 颜色	Application 应用
JT5450	1480	CVD	Yellow 黄色	Medium cobalt content, and high cubic content carbide substrate combine with strong texture TiCN and Al2O3 coating. After special treatment, it has wonderful abrasion resistance. Suitable for general steel turning. 中Co高立方相含量硬质合金基体搭配强织构化的TiCN和Al2O3涂层，经特殊后处理工艺，具有突出的耐磨性能。 钢件材料连续车削加工
JT4230	1700	CVD	Black 黑色	Hard substrate perfectly combined with ultra thick TiCN and Al2O3, 0C3105 is optimized for the best wear resistance. Suitable grade for semifinishing to finishing cast iron machining. 高硬度细晶粒硬质合金基体搭配厚TiCN和厚Al2O3涂层，经特殊后处理工艺，具有突出的耐磨性能。 适用于铸铁材料的精加工及半精加工；
JT4220D	1580	CVD	Black 黑色	Mild-coarse grain substrate combines with hard-wearing and ultrathick alumina CVD coating, treated by special after coating treatment, which has good roughness and wear resistance. Suitable grade for semifinishing to slight interrupted cast iron machining. 中等颗粒的WC晶粒的硬质合金基体搭配厚TiCN和厚Al2O3涂层，经特殊后处理工艺，具有很好的韧性和耐磨性性能。 适用于铸铁材料的半精加工及轻断续工况的粗加工；
JT4520	1580	CVD	Black 黑色	The medium-coarse substrate combine with thick TiCN and textured Al2O3, after special after coating treatment, it has outstanding wearing resistance. Suitable for high speed semi-finishing cast iron cutting under stable work condition. 中等颗粒的WC晶粒的硬质合金基体搭配厚TiCN和厚的织构化Al2O3涂层，经特殊后处理工艺，具有突出的耐磨性性能。 适用于高线速度下铸铁材料的半精加工；

Grade 牌号	Hardness 硬度	Coating Type 涂层类型	Colour 颜色	Application 应用
JT1350	1330	CVD	Yellow 黄色	High Co content substrate combines with thin MT-TiCN and thin Al2O3 coating, it is optimized for impact resistance and wearing resistance, also easy to recognize wear. Suitable for general steel milling. 强韧型中粗晶粒硬质合金基体搭配薄的MT-TiCN和薄Al2O3涂层，具有良好的韧性和耐磨性，并易于加工识别。 适用于钢件材料的铣削加工。
JT1340	1300	CVD	Yellow 黄色	Mild-coarse grain substrate combine with thin MT-TiCN and thin Al2O3, gives excellent roughness. Suitable for steel heavy milling under bad work condition. 中粗晶粒硬质合金基体具有极好的韧性，搭配薄的MT-TiCN和薄Al2O3涂层，具有突出的强韧性，并易于加工识别。 适用于钢件材料恶劣工况下的重载铣削加工；
JT1550	1300	CVD	Black 黑色	Strong medium coarse grain size substrate coated by ultra fine MT-TiCN and Al2O3 coating. After special treatment, it has good impact strength and abrasion resistance. Suitable for general stainless steel turning. 强韧型中粗晶粒硬质合金基体搭配超细晶的MT-TiCN和Al2O3涂层，经特殊后处理工艺，具有良好的韧性和耐磨性； 适用于不锈钢材料车削加工
JT1420	1480	CVD	Gold 金色	Medium Cobalt content, and high cubic content carbide substrate combine with thin TiCN and Al2O3, treated by special after coating treatment, which gives insert wonderfulwearing resistance. Preferred grade for stainless steel turning at high speed. 中Co高立方相含量硬质合金基体搭配薄的MT-TiCN和薄的Al2O3涂层，经特殊后处理工艺，具有较好的耐磨性能和特殊的外观，大大降低的摩擦阻力，并易于加工识别。适用于不锈钢材料的高速连续车削加工；



Grade 牌号	Hardness 硬度	Coating Type 涂层类型	Colour 颜色	Application 应用
JA5535	1650	PVD	Gray 灰色	高Co含量超细硬质合金基体，具有高的刃口强度，搭 配PVD的AlTiN涂层，具有突出的耐磨性能。钢件及铸铁材料的轻型铣削加工； High Co content and ultra fine WC grain substrate, gives wonderful cutting edge strength, combines with PVD AlTiN coating, it has oustanding wearing resistance.Suitable for steel and cast iron slight milling.
JA2343	1500	PVD	Gray 灰色	高Co含量细晶粒硬质合金基体，具有很好的强韧 性，搭配PVD通用性好的AlTiN涂层，具有很好的 韧性和通用性能。钢、不锈钢材料的铣削及钻削加工； High Co content and ultra fine WC grain substrate, gives wonderful toughness, combines with PVD AlTiN coating, it has good strength and versatility. Suitable for steel and stainless steel milling and drilling.
JA2530	1650	PVD	Dark Puple 紫色	高Co含量的超细硬质合金基体，具有很好的刃口 强度，搭配热稳定性好的PVD含硅涂层，具有摩擦 系数小，纳米硬度高等特点。 钢、不锈钢材料的螺纹车削加工； High Co content and ultra fine WC grain substrate, gives wonderful cutting edge strength, combines with good thermal stability silicon coating, it has very small coefficient of friction, and good nano hardness.Suitable for steel and stainless steel continue turning and threading.
JA2520	1560	PVD	Dark Puple 紫色	高Co含量细晶粒的硬质合金基体，具有很好的刃 口强度，搭配热稳定性好的PVD含硅涂层，具有摩 擦系数小，纳米硬度高等特点。连续工况下不锈钢材料的半精车削加工及切槽加 工；钢、不锈钢材料的铣削及钻削加工； High Co content and fine WC grain substrate, gives wonderful cutting edge strength, combines with good thermal stability silicon coating, it has very small coefficient of friction, and good nano hardness.Good at stianless steel semi-finishing turning , parting and groovingprocessing.preferred grade for steel and stainless steel milling and drilling.



Grade 牌号	Hardness 硬度	Coating Type 涂层类型	Colour 颜色	Application 应用
JA2420	1650	PVD	Gray 灰色	高Co含量超细硬质合金基体，具有高的刃口强度，搭 配PVD的AlTiN涂层，具有突出的耐磨性能。钢件及铸铁材料的轻型铣削加工； High Co content and ultra fine WC grain substrate, gives wonderful cutting edge strength, combines with PVD AlTiN coating, it has oustanding wearing resistance.Suitable for steel and cast iron slight milling.
JA2450	1500	PVD	Gold Yellow 金黄色	高Co含量细晶粒硬质合金基体，具有很好的强韧 性，搭配PVD通用性好的AlTiN涂层，具有很好的 韧性和通用性能。钢、不锈钢材料的铣削及钻削加工； High Co content and ultra fine WC grain substrate, gives wonderful toughness, combines with PVD AlTiN coating, it has good strength and versatility. Suitable for steel and stainless steel milling and drilling.



Example 范例

内切圆 Inscribed circle diameter

厚度 Thickness

刀尖圆弧半径 Nose radius

代號(英制) Code(inch)	2	3	4	5	6	8	代號(英制) Code(inch)	2	3	4	5	6	代號(英制) Code(inch)	0	1	2	3	4	5	6
内切圆直径(mm) Inscribed circle diameter	6.35	9.525	12.7	15.875	19.05	25.4	厚度(mm) Thickness	3.18	4.76	6.35	7.94	9.52	刀尖圆弧半径(mm) Nose radius	0.2	0.4	0.8	1.2	1.6	2.0	2.4

4 3 2 (inch)

TNMG220408-DM (ISO)

刀片形状 Insert shape

主切削刃后角
Major cutting edge clearance angle

公差 Tolerances

断屑槽及夹固形式
Chipbreaker and /or fixing type

断屑槽型代号 Chipbreakers code

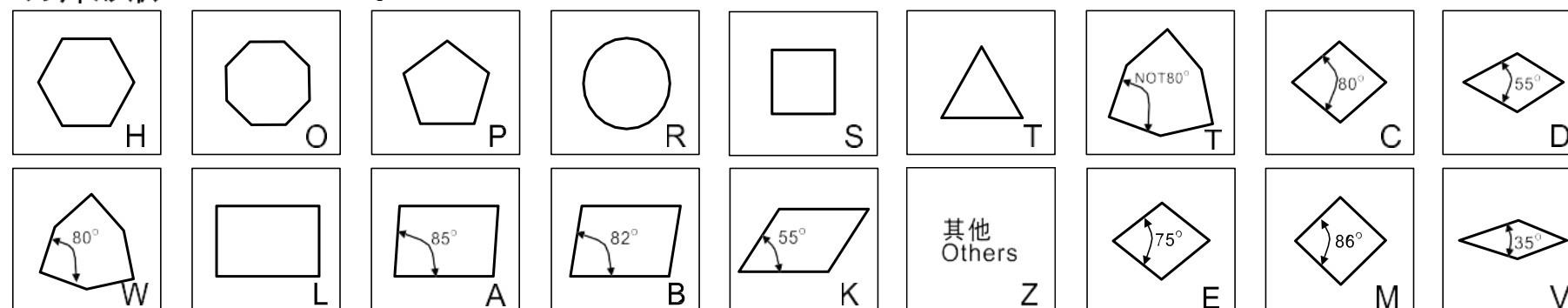
刀尖圆弧半径 Nose radius

厚度 Insert thickness

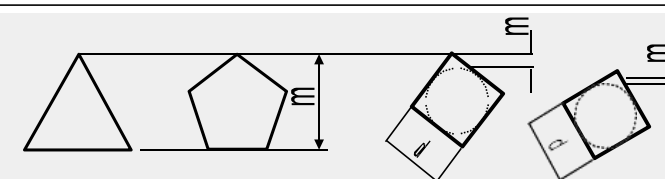
切削刃长度 Cutting edge length



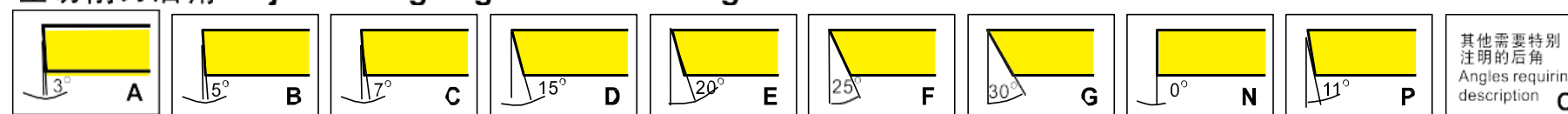
刀片形狀 Insert shape



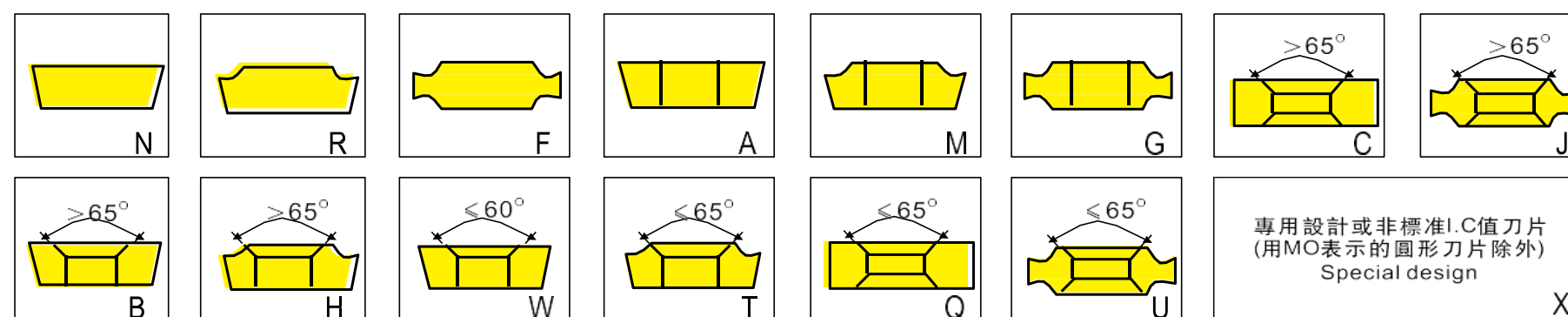
d. 內切圓直徑 D. Theoretical diameter of inscribed circle
s. 刀片厚度 s. Insert thickness
M. 見圖例 m. See Fig.



主切削刃后角 Major cutting edge Clearance angle



断屑槽及夹固形式代号 Chipbreaker and/or fixing type



厚度 Insert Thickness

單位: mm 	00s=0.79	02s=2.38	04s=4.76	06s=6.35	T9s= 9.72
	T0s=0.99	T2s=2.58	T4s=4.96	T6s=6.75	11s=11.11
	01s=1.59	03s=3.18	05s=5.56	07s=7.94	12s=12.70
	T1s=1.98	T3s=3.97	T5s=5.95	09s=9.52	



Turning Insert 车削刀片



公差 Tolerances,mm

代号Code	m	s	d
A	± 0.005	± 0.025	± 0.025
F	± 0.005	± 0.025	± 0.13
C	± 0.013	± 0.025	± 0.025
H	± 0.013	± 0.025	± 0.13
E	± 0.025	± 0.025	± 0.025
G	± 0.025	± 0.13	± 0.025
J	± 0.005	± 0.025	± 0.05 ± 0.13
K	± 0.013	± 0.025	± 0.05 ± 0.13
L	± 0.025	± 0.025	± 0.05 ± 0.13
M	± 0.08 ± 0.18	± 0.13	± 0.05 ± 0.13
N	± 0.08 ± 0.18	± 0.025	± 0.05 ± 0.13
U	± 0.08 ± 0.18	± 0.13	± 0.08 ± 0.25

切削刀长度(mm) Inserts thickness(mm)

ic mm	ic inch	C	D	R	S	T	V	W	K
3.97	5.32"					06			
5.0				05					
5.56	7/32"					09			
6.0				06					
6.35	1/4"	06	07			11	11		
8.0				08					
9.525	3/8"	09	11	09	09	16	16	06	16*)
10.0				10					
12.0				12					
12.7	1/2"	12	15	12	12	22	22	08	
15.875	5/8"	16		15	15	27			
16.0			19	16					
19.05	3/4"	19		19	19	33			
20.0				20					
25.0	1"	25	25	25					
25.4				25	25				
31.75				31					
32				32					

刀尖圆弧半径 Nose radius, r mm

圓 弧 r	Radius
	00 02-0.2 04-0.4 08-0.8 12-1.2 16-1.6 20-2.0 24-2.4 32-3.2 X-其他
Mo—公制圓形刀片	
斷屑槽型代號 Chipbreakers code	
表示刀片加工切削特點和斷屑槽型 Position 10 indicates the cutting properties & chipbreakers of inserts	

(参考) M级精度详细情况 (按形状、大小分) ● 刀尖高度公差(mm)
M grade tolerance detail(accodrding to shape,size).

Tolerance of inerts nose height

内接圆 Inscribed Circle	正三角形 Regular Triangle	正方形 Square	80° 菱形 80° Rhombus	55° 菱形 55° Rhombus	35° 菱形 35° Rhombus
6.35	± 0.08	± 0.08	± 0.08	± 0.11	± 0.16
9.525	± 0.08	± 0.08	± 0.08	± 0.11	± 0.16
12.7	± 0.13	± 0.13	± 0.13	± 0.15	...
15.875	± 0.15	± 0.15	± 0.15	± 0.18	...
19.05	± 0.15	± 0.15	± 0.15	± 0.18	...
25.4	...	± 0.18	...	...	...

● 内接圆φI.C公差(mm) ● Tolerance of Inscribed

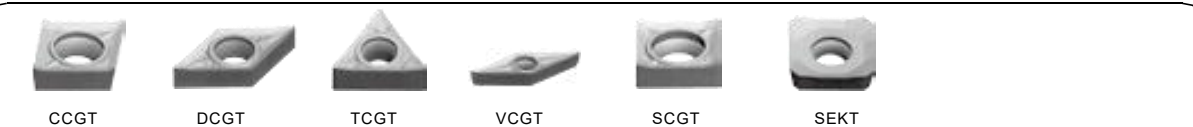
内接圆 Inscribed Circle	正三角形 Regular Triangle	正方形 Square	80° 菱形 80° Rhombus	55° 菱形 55° Rhombus	35° 菱形 35° Rhombus	圓形 Round
6.35	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05
9.525	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05
12.7	± 0.08	± 0.08	± 0.08	± 0.08	...	± 0.08
15.875	± 0.1	± 0.1	± 0.1	± 0.1	...	± 0.1
19.05	± 0.1	± 0.1	± 0.1	± 0.1	...	± 0.1
25.4	...	...	± 0.13	...	...	± 0.13



Inserts Overview 刀片一览表



铝材车削刀片 Aluminum turning inserts



仿形车削刀片 Profile turning inserts

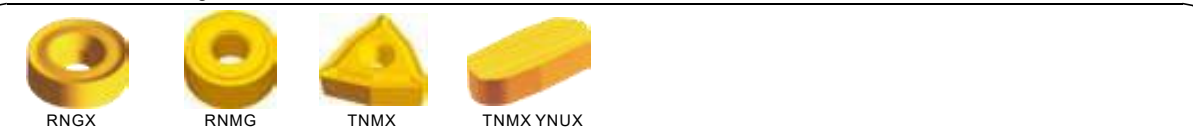


重力车削刀片 Heavy turning inserts

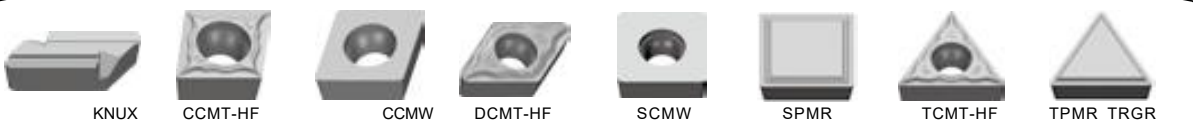
火车轮毂刀片 Railway wheel re-turning inserts

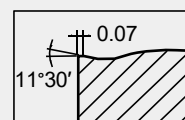
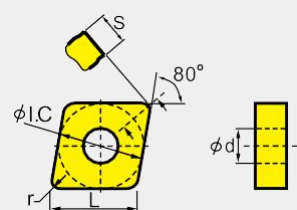


扒皮车削刀片 Peeling inserts

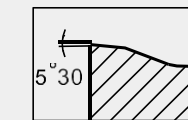
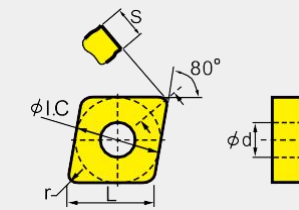


金属陶瓷刀片 Cermet Inserts

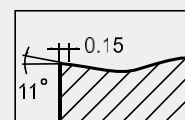
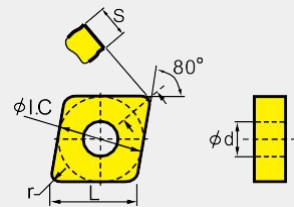




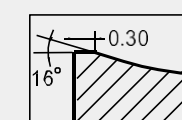
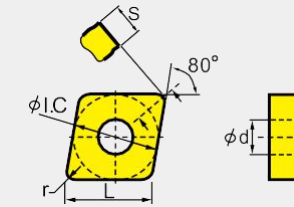
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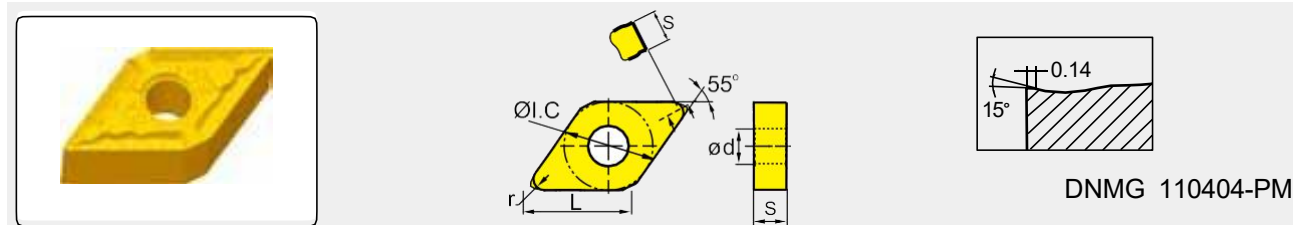
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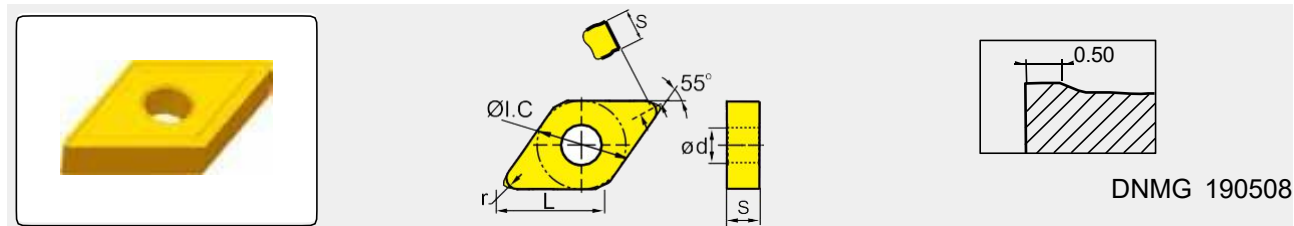


Turning Insert 车削刀片



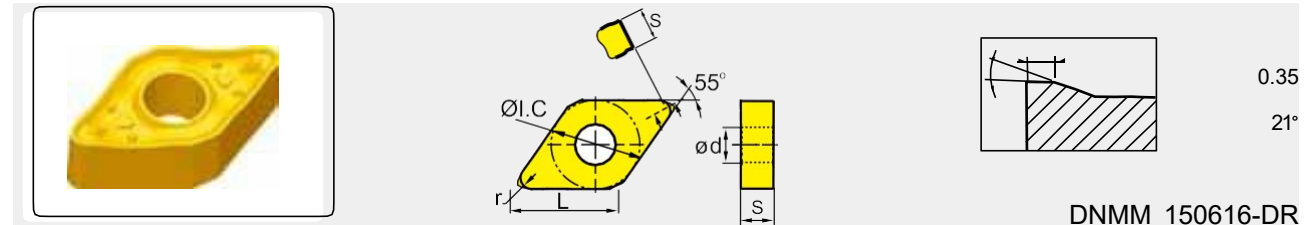
DNMG 110404-PM

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号			
								CVD								PVD							
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
DNMG	(ISO)	(inch)																					
	110404-PM	331-PM	11.6	9.525	4.76	3.81	0.4		●														
	110408-PM	332-PM	11.6	9.525	4.76	3.81	0.8		●														
	110412-PM	333-PM	11.6	9.525	4.76	3.81	1.2	○	●	○													
	150404-PM	431-PM	15.5	12.7	4.76	5.16	0.4		●	○													
	150408-PM	432-PM	15.5	12.7	4.76	5.16	0.8	○	●	○													
	150412-PM	433-PM	15.5	12.7	4.76	5.16	1.2	○	●	○													
	150416-PM	434-PM	15.5	12.7	4.76	5.16	1.6	○	●	○													
	150604-PM	441-PM	15.5	12.7	6.35	5.16	0.4	○	●	○													
	150608-PM	442-PM	15.5	12.7	6.35	5.16	0.8	○	●	○													
	150612-PM	443-PM	15.5	12.7	6.35	5.16	1.2	○	●	○													
	150616-PM	444-PM	15.5	12.7	6.35	5.16	1.6	○	●	○													



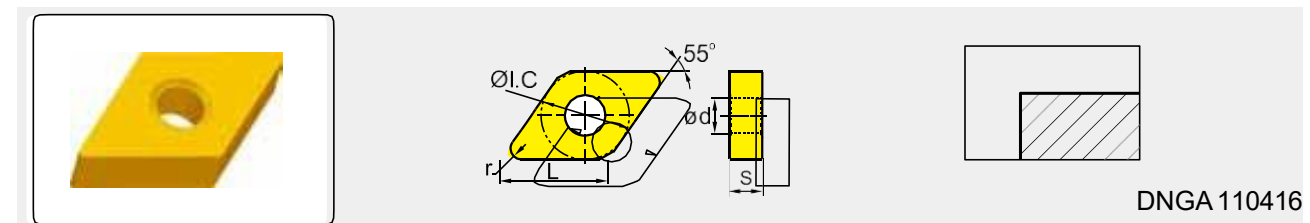
DNMG 190508

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号			
								CVD								PVD							
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
DNMG	(ISO)	(inch)																					
	150604	441	15.5	12.7	6.35	5.16	0.4		●														
	150608	442	15.5	12.7	6.35	5.16	0.8		●														
	150612	443	15.5	12.7	6.35	5.16	1.2		●														
	150616	444	15.5	12.7	6.35	5.16	1.6		●														
	190608	542	19.3	15.875	6.35	7.94	0.8		●														
190612	543	19.3	15.875	6.35	7.94	1.2		●															



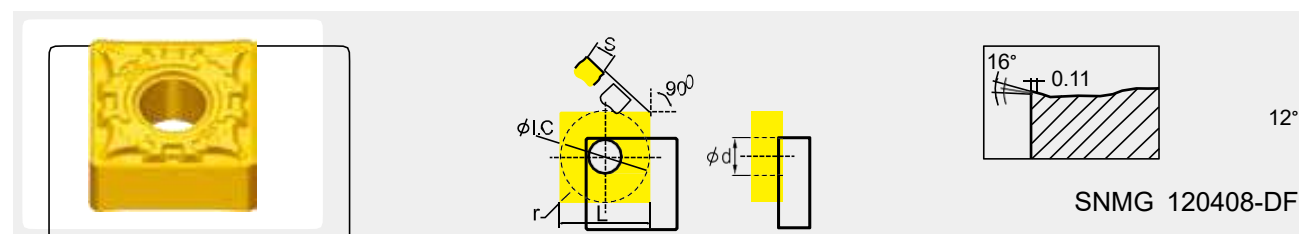
DNMM 150616-DR

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
	(ISO)	(inch)																				
DNMM	150608-DR	442-DR	15.5	12.7	6.35	5.16	0.8	○	●	○												
	150612-DR	443-DR	15.5	12.7	6.35	5.16	1.2	○	●	○												
	150616-DR	444-DR	15.5	12.7	6.35	5.16	1.6		○													

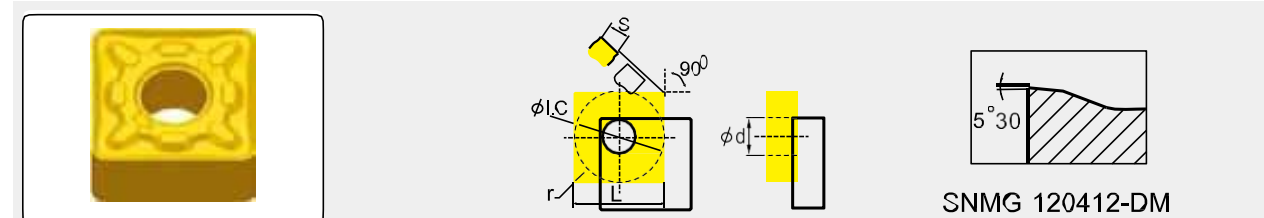


DNGA 110416

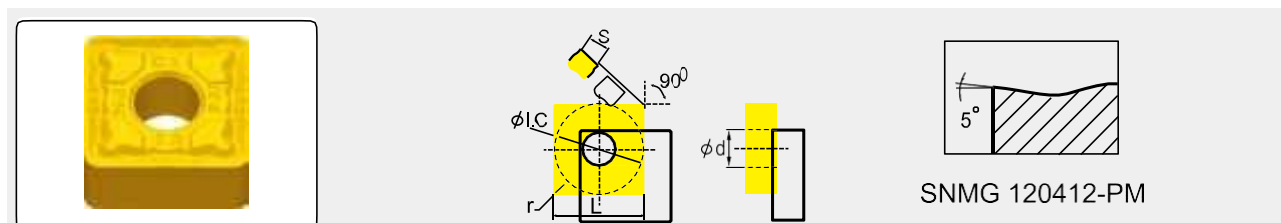
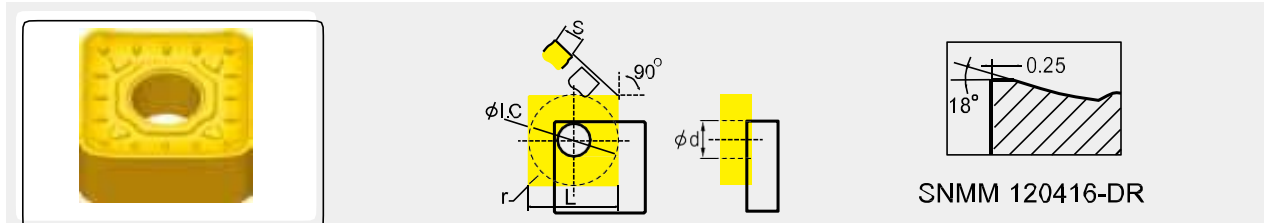
	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
DNGA	(ISO)	(inch)																				
	110416	334	11.6	9.525	4.76	3.81	1.6								●							
	110424	336	11.6	9.525	4.76	3.81	2.4								●							
	150404	431	15.5	12.7	4.76	5.16	0.4								●							
	150408	432	15.5	12.7	4.76	5.16	0.8								●							
	150604	441	15.5	12.7	6.35	5.16	0.4								●							
	150608	442	15.5	12.7	6.35	5.16	0.8								●							
150612	443	15.5	12.7	6.35	5.16	1.2								●								
DNMA	110416	334	11.6	9.525	4.76	3.81	1.6								●							
	110424	336	11.6	9.525	4.76	3.81	2.4								●							
	150404	431	15.5	12.7	4.76	5.16	0.4								●							
	150604	441	15.5	12.7	6.35	5.16	0.4								●							
	150608	442	15.5	12.7	6.35	5.16	0.8								●							
	150612	443	15.5	12.7	6.35	5.16	1.2								●							
	151616	444	15.5	12.7	6.35	5.16	1.6								●							



	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
								CVD								PVD						
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
	(ISO)	(inch)																				
SNMG	120408-DF	432-DF	12.7	12.7	4.67	5.16	0.8	○	●			○	○									
	120412-DF	433-DF	12.7	12.7	4.67	5.16	1.2	○	●			○	○									

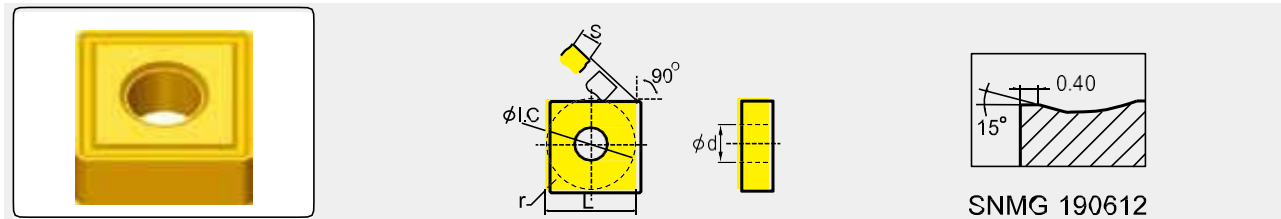


	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌				
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT6250	JT6450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
(ISO)	(inch)	090304-DM	321-DM	9.525	9.525	3.18	3.81	0.4		●	○		○									
SNMG	090308-DM	322-DM	9.525	9.525	3.18	3.81	0.8		●	○		○										
	090312-DM	323-DM	9.525	9.525	3.18	3.81	1.2		●	○		○										
	120404-DM	431-DM	12.7	12.7	4.76	5.16	0.4		●	○		○										
	120408-DM	432-DM	12.7	12.7	4.76	5.16	0.8		●	○		○					○					
	120412-DM	433-DM	12.7	12.7	4.76	5.16	1.2		●	○		○					○					
	120416-DM	434-DM	12.7	12.7	4.76	5.16	1.6		●	○		○										
	150608-DM	542-DM	15.875	15.875	6.35	6.35	0.8		●	○		○										
	150612-DM	543-DM	15.875	15.875	6.35	6.35	1.2		●	○		○										
	150616-DM	544-DM	15.875	15.875	6.35	6.35	1.6		●	○		○										
	190612-DM	643-DM	19.05	19.05	6.35	7.94	1.2		●	○		○										
	190616-DM	644-DM	19.05	19.05	6.35	7.94	1.6		●	○		○										

[illegible][illegible]

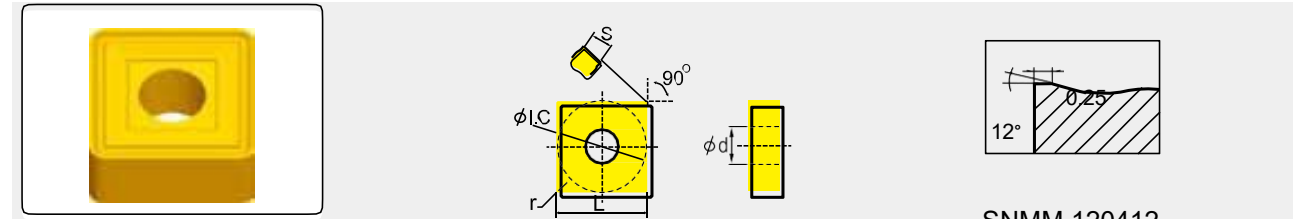


Turning Insert 车削刀片



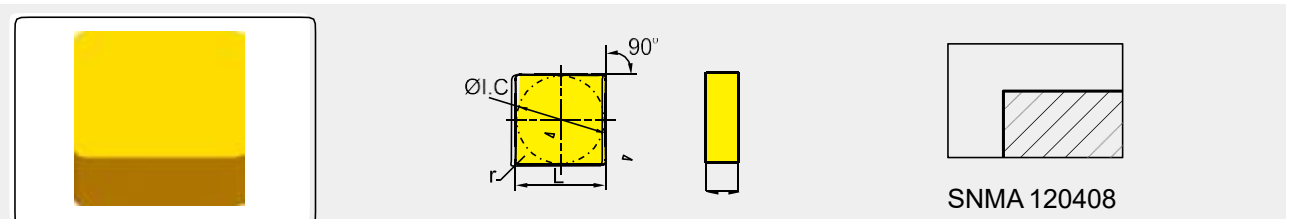
SNMG 190612

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号			
								CVD					PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230
(ISO)	(inch)																				
SNMG	090304	321	9.525	9.525	3.18	3.81	0.4	○	●												
	090308	322	9.525	9.525	3.18	3.81	0.8	○	●												
	120404	431	12.7	12.7	4.76	5.16	0.4	○	●	○											
	120408	432	12.7	12.7	4.76	5.16	0.8	○	●	○											
	120412	433	12.7	12.7	4.76	5.16	1.2		●	○											
	120416	434	12.7	12.7	4.76	5.16	1.6		●	○											
	150608	542	15.875	15.875	6.35	6.35	0.8	○	●	○											
	150612	543	15.875	15.875	6.35	6.35	1.2	○	●	○											
	190612	643	19.05	19.05	6.35	7.94	1.2		●	○											
	190616	644	19.05	19.05	6.35	7.94	1.6		●	○											
	250724	856	25.4	25.4	7.94	9.12	2.4		●	○											
	250924	866	25.4	25.4	9.52	9.12	2.4		●	○											



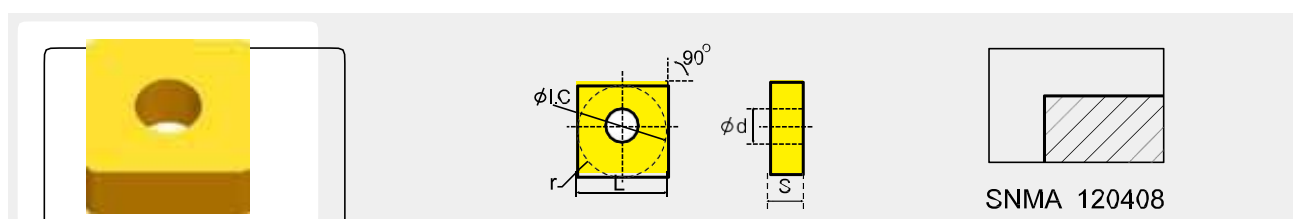
SNMM 120412

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
								CVD								PVD						
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
SNMM	(ISO)	(inch)																				
	090304	321	9.525	9.525	3.18	3.81	0.4	●														
	090308	322	9.525	9.525	3.18	3.81	0.8	●														
	120408	432	12.7	12.7	4.76	5.16	0.8		●													
	120412	433	12.7	12.7	4.76	5.16	1.2		●													
	120416	434	12.7	12.7	4.76	5.16	1.6		●													
	190608	642	19.05	19.05	6.35	7.94	0.8		●													
	190612	643	19.05	19.05	6.35	7.94	1.2		●	○												
	190616	644	19.05	19.05	6.35	7.94	1.6		○	●												
	250724	856	25.4	25.4	7.94	9.12	2.4		○	●												
250924	866	25.4	25.4	9.525	9.19	2.4		○	●													



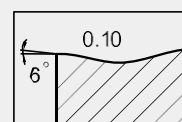
SNMA 120408

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号					
								CVD					PVD										
			L	ΦI.C	S	r		JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
SNUN	090304	321	9.525	9.525	3.18	0.4		○							○								
	090308	322	9.525	9.525	3.18	0.8		○							○								
	120408	432	12.47	12.7	4.76	0.8		○							○								
	120412	433	12.7	12.7	4.76	1.2		○							○								
	150408	532	15.875	15.875	4.76	0.8		○							○								
	150412	533	15.875	15.875	4.76	1.2		○							○								
	190408	632	19.05	19.05	4.76	0.8		○	○						○								
	190412	633	19.05	19.05	4.76	1.2		○	○						○								
	190424	636	19.05	19.05	4.76	2.4			○						○								
	250624	846	25.4	25.4	6.35	2.4			○						○								
	250724	856	25.4	25.4	7.94	2.4				○	○				○								
	250924	866	25.4	25.4	9.525	2.4				○	○				○								
SNGN	090308	322	9.525	9.525	3.18	0.8		○							○								
	120408	432	12.7	12.7	4.76	0.8		○							○								
	150408	532	15.875	15.875	4.76	0.8		○							○								
	190412	633	19.05	19.05	4.76	1.2		○							○								



SNMA 120408

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
SNMA	(ISO)	(inch)																				
	090304	321	9.525	9.525	3.18	3.81	0.4							○	●							
	090308	322	9.525	9.525	3.18	3.81	0.8							○	●							
	120404	431	12.7	12.7	4.76	5.16	0.4							○	●							
	120408	432	12.7	12.7	4.76	5.16	0.8							○	●							
	120416	433	12.7	12.7	4.76	5.16	1.6								●							
	150608	542	15.875	15.875	6.35	6.35	0.8								●							
	190612	643	19.05	19.05	6.35	7.94	1.2								●							
190616	644	19.05	19.05	6.35	7.94	1.6								●								
SNGA	090316	324	9.525	9.525	4.76	3.81	1.6								○							
	090408	332	9.525	9.525	4.76	3.81	0.8								○	○						
	120404	431	12.7	12.7	4.76	5.16	0.4								○	○						
	120408	432	12.7	12.7	4.76	5.16	0.8								○							



TNMG 160408-PM

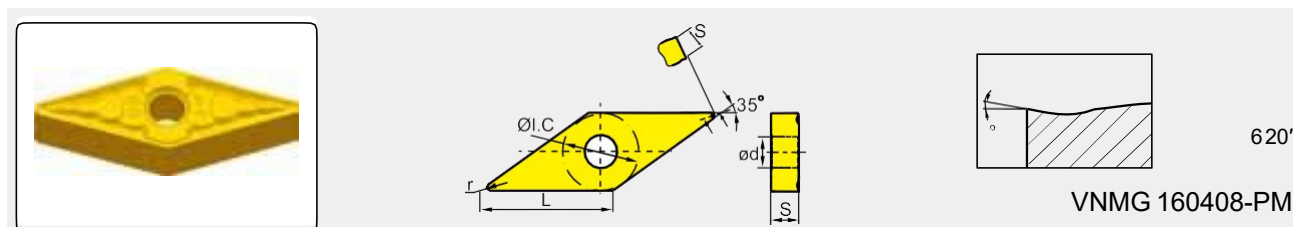
TNMM 160408-DR

TNGA 160404

A cross-section diagram of a road. On the left, a vertical line represents the road edge. To its left, a horizontal line is labeled '15', indicating a 15% slope. A small circle is shown on the horizontal line. To the right of the vertical line, the road surface is shown with diagonal hatching, sloping downwards to the right.

TNMG 220408

[illegible]

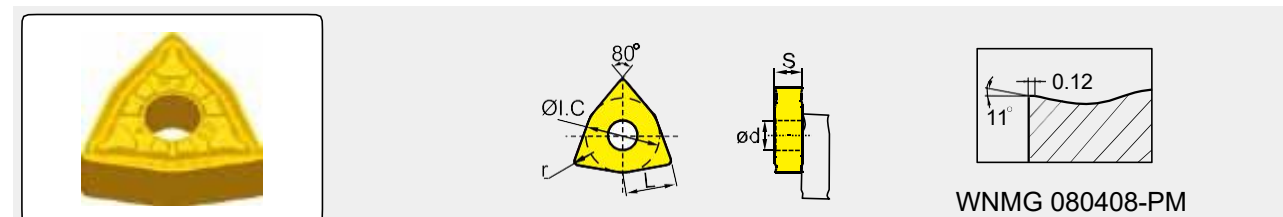


Technical drawing of a VNMG 160408 turning tool. The drawing includes a 3D perspective view of the tool, a side view showing dimensions (L, r, ØI.C, Ød, S, 35°), and a detail view of the cutting edge showing angles (15°, 10°) and a tolerance (±0.09).

WNMG 080408-DF

WNMG 060408-DM

[illegible]



Technical drawing of a yellow ring. The drawing includes a perspective view on the left and two cross-sectional views on the right. The perspective view shows a ring with a central hole. The cross-sectional views show the ring's profile with dimensions: $\varnothing 1. C$ for the outer diameter, $\varnothing d$ for the inner diameter, and S for the thickness. A detail view of the ring's profile shows a fillet with a radius of 0.30 and a fillet angle of 11° .

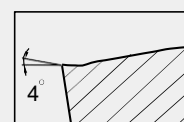
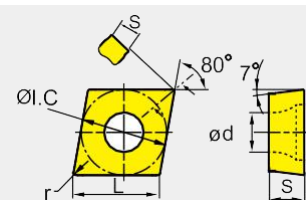
RNMG 1204M

Technical drawing of a ring (RNGA). The drawing includes a 3D perspective view of a yellow ring, a front view showing the outer diameter $\varnothing C$, inner diameter $\varnothing d$, and thickness S , and a cross-section view showing the ring's profile.

	Type 型号		Dimension(mm) 基本尺寸			Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
						CVD							PVD							
			ΦI.C(L)	S	Φd	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
(ISO)	(inch)																			
RNMA	0903MO	32	9.525	3.18	3.81	○								●						
RNGA	0903MO	32	9.525	3.18	3.81	○								●						

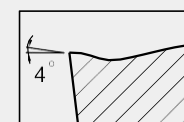
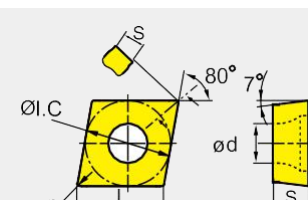


Turning Insert 车削刀片



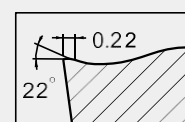
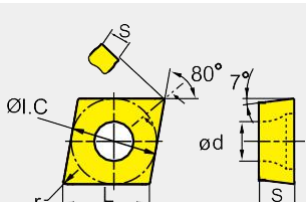
CCMT 09T308-HF

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD							PVD							
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
(ISO)	(inch)																					
CCMT	060202-HF	2(1.5)0-HF	6.4	6.35	2.38	2.8	0.2	●	○							○						○
	060204-HF	2(1.5)1-HF	6.4	6.351	2.38	2.8	0.4	●	○			○				○			○			○
	060208-HF	2(1.5)2-HF	6.4	6.35	2.38	2.8	0.8	●	○			○				○					○	○
	09T308-HF	3(1.5)2-HF	9.7	9.525	3.97	4.4	0.8	●				○				○			○			○
	120404-HF	431-HF	12.9	12.7	4.76	5.5	0.4	●				○				○						○



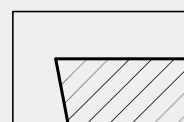
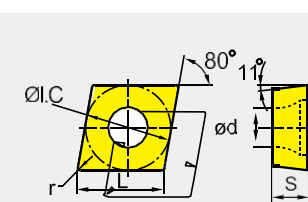
CCMT 09T308-HM

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号					
								CVD							PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT6350	JT6220	JT6250	JT6450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
CCMT	060204-HM	2(1.5)1-HM	6.4	6.35	2.38	2.8	0.4	○	●	○	○				○		○						
	060208-HM	2(1.5)2-HM	6.4	6.35	2.38	2.8	0.8	○	●	○	○				○		○						
	09T304-HM	3(2.5)1-HM	9.7	9.525	3.97	4.4	0.4	○	●	○		○			○		○						
	09T308-HM	3(2.5)2-HM	9.7	9.525	3.97	4.4	0.8	○	●	○		○			○		○						
	120404-HM	431-HM	12.9	12.7	4.76	5.6	0.4	○	●	○		○			○		○						
	120408-HM	432-HM	12.9	12.7	4.76	5.6	0.8	○	●	○		○			○		○						
	120412-HM	433-HM	12.9	12.7	4.76	5.6	1.2	○	●	○		○			○		○						



CCMT 120408-HR

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号					
								CVD					PVD										
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
CCMT	060204-HR	2(1.5)1-HR	6.4	6.35	2.38	2.8	0.4	○	●	○													
	060208-HR	2(1.5)2-HR	6.4	6.35	2.38	2.8	0.8	○	●	○													
	09T304-HR	3(2.5)1-HR	9.7	9.525	3.97	4.4	0.4	○	●	○													
	09T308-HR	3(2.5)2-HR	9.7	9.525	3.97	4.4	0.8	○	●	○													
	120408-HR	432-HR	12.9	12.7	4.76	5.5	0.8	○	●	○													
	120412-HR	433-HR	12.9	12.7	4.76	5.5	1.2	○	●	○													

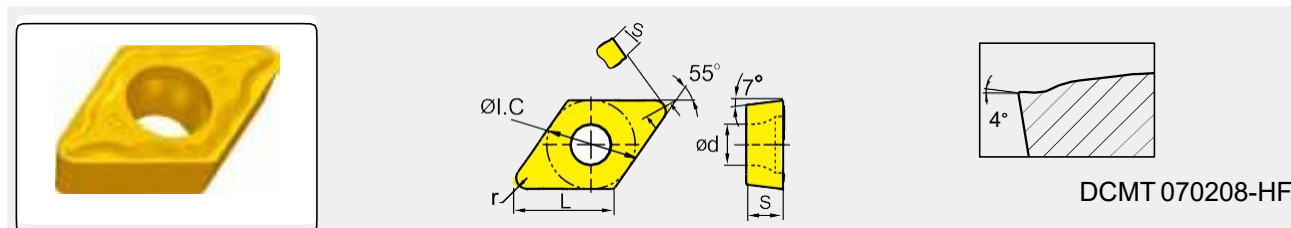


CPGW 060204

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
CPGW	(ISO) 050204	(inch) 1.8(1.5)1	5.6	5.56	2.38	2.5	0.4								●							●
	060204	2(1.5)1	6.4	6.35	2.38	2.8	0.4								●							●

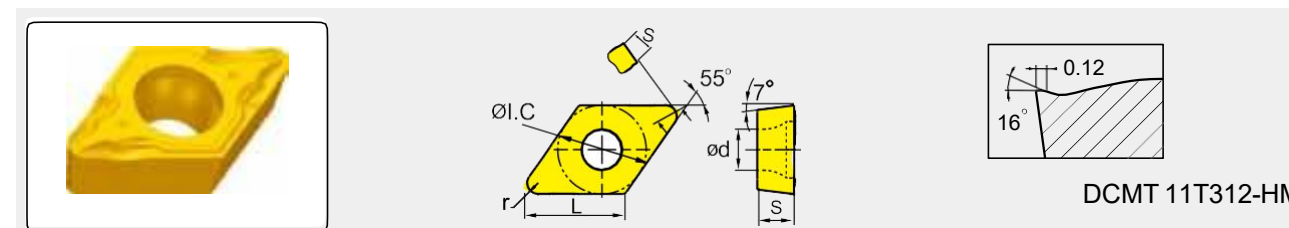


Turning Insert 车削刀片



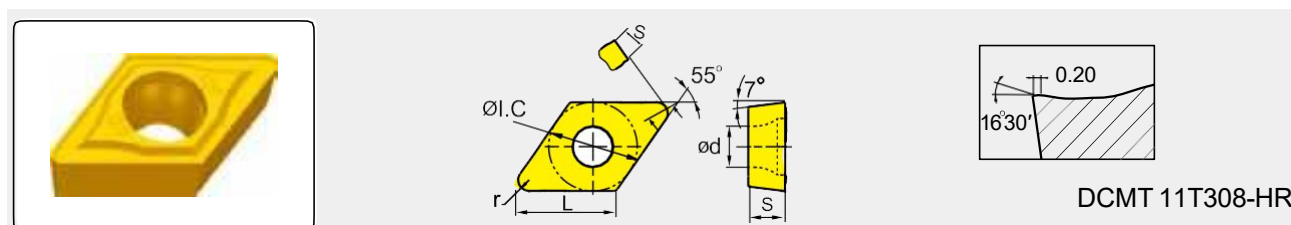
DCMT 070208-HF

	Type 型号		Dimension(mm) 基本尺寸						Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
									CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
DCMT	070202-HF	2(1.5)0-HF	7.8	6.35	2.38	2.8	0.2	●	○								○			○			
	070204-HF	2(1.5)1-HF	7.8	6.35	2.38	2.8	0.4	●	○			○					○			○			
	070208-HF	2(1.5)2-HF	7.8	6.35	2.38	2.8	0.8	●	○			○					○						
	11T302-HF	3(2.5)0-HF	11.6	9.525	3.97	4.4	0.2	●	○								○		○		○		
	11T304-HF	3(2.5)1-HF	11.6	9.525	3.97	4.4	0.4	●	○			○					○						
	11T308-HF	3(2.5)2-HF	11.6	9.525	3.97	4.4	0.8	●	○			○					○						



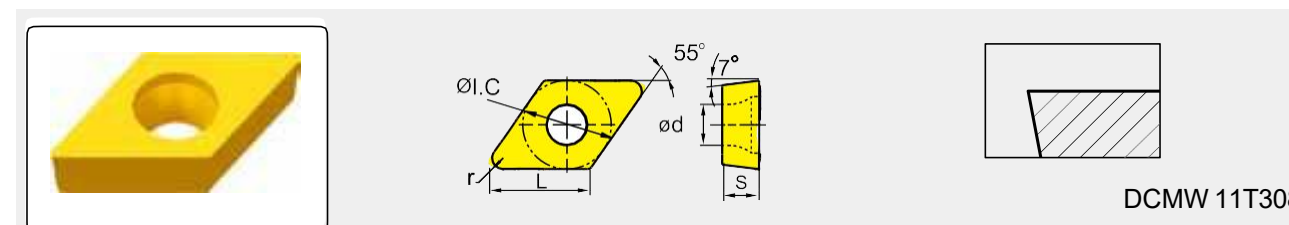
DCMT 11T312-HM

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌		
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420		JP141	JA2230
DCMT	070204-HM	2(1.5)1-HM	7.8	6.35	2.38	2.8	0.4	○	●	○		○			○		○					
	070208-HM	2(1.5)2-HM	7.8	6.35	2.38	2.8	0.8	○	●	○		○			○		○					
	11T304-HM	3(2.5)1-HM	11.6	9.525	3.97	4.4	0.4	○	●	○		○			○		○		○		○	
	11T308-HM	3(2.5)2-HM	11.6	9.525	3.97	4.4	0.8	○	●	○		○			○		○					
	11T312-HM	3(2.5)3-HM	11.6	9.525	3.97	4.4	1.2	○	●	○		○			○		○					



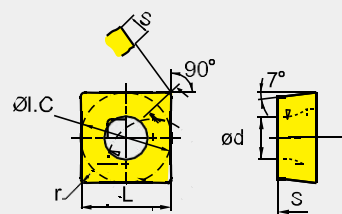
DCMT 11T308-HR

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
								CVD								PVD						
			L	ΦI.C	S	Φd	r	JT5320	JT6350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
	(ISO)	(inch)																				
DCMT	11T304-HR	3(2.5)1-HR	11.6	9.525	3.97	4.4	0.4	○	●	○										○		
	11T308-HR	3(2.5)2-HR	11.6	9.525	3.97	4.4	0.8	○	●	○										○		
	11T312-HR	3(2.5)3-HR	11.6	9.525	3.97	4.4	1.2	○	●	○										○		



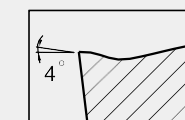
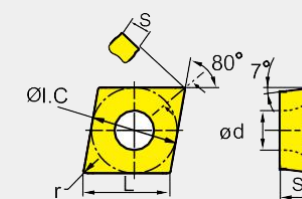
DCMW 11T308

	Type 型号		Dimension(mm) 基本尺寸						Coated Grade 涂层牌号												Uncoated Grade 非涂层牌		
									CVD								PVD						
			L	ΦI.C	S	Φd	a	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420		JP141	JA2230
	(ISO)	(inch)																					
DCMW	11T304	3(2.5)1	11.6	9.525	3.97	4.4	7	0.4								●							○
	11T308	3(2.5)2	11.6	9.525	3.97	4.4	7	0.8								●							○
DPMW	11T304	3(2.5)1	11.6	9.525	3.97	4.4	11	0.4								●							○
	11T308	3(2.5)2	11.6	9.525	3.97	4.4	11	0.8								●							○
DCGW	11T304	3(2.5)1	11.6	9.525	3.97	4.4	7	0.4								●							○
	11T308	3(2.5)2	11.6	9.525	3.97	4.4	7	0.8								●							○



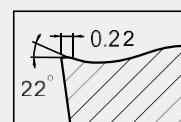
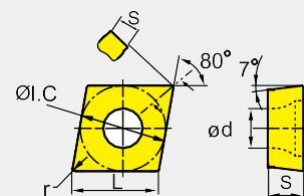
SCMT 09T308-HF

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
								CVD								PVD						
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
SCMT	(ISO)	(inch)																				
	09T302-HF	3(2.5)0-HF	9.525	9.525	3.97	4.4	0.2	●	○			○					○					
	09T304-HF	3(2.5)1-HF	9.525	9.525	3.97	4.4	0.4	●	○			○					○					
	09T308-HF	3(2.5)2-HF	9.525	9.525	3.97	4.4	0.8	●	○			○					○					

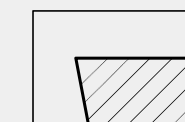
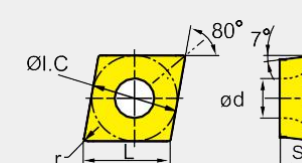


CCMT 09T308-HM

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2620
(ISO)	(inch)																					
CCMT	060204-HM	2(1.5)1-HM	6.4	6.35	2.38	2.8	0.4	○	●	○	○	○			○		○					
	060208-HM	2(1.5)2-HM	6.4	6.35	2.38	2.8	0.8	○	●	○	○	○			○		○					
	09T304-HM	3(2.5)1-HM	9.7	9.525	3.97	4.4	0.4	○	●	○			○		○		○					
	09T308-HM	3(2.5)2-HM	9.7	9.525	3.97	4.4	0.8	○	●	○					○		○					
	120404-HM	431-HM	12.9	12.7	4.76	5.6	0.4	○	●	○			○				○					
	120408-HM	432-HM	12.9	12.7	4.76	5.6	0.8	○	●	○			○		○		○					
	120412-HM	433-HM	12.9	12.7	4.76	5.6	1.2	○	●	○			○		○		○					



CCMT 120408-HR

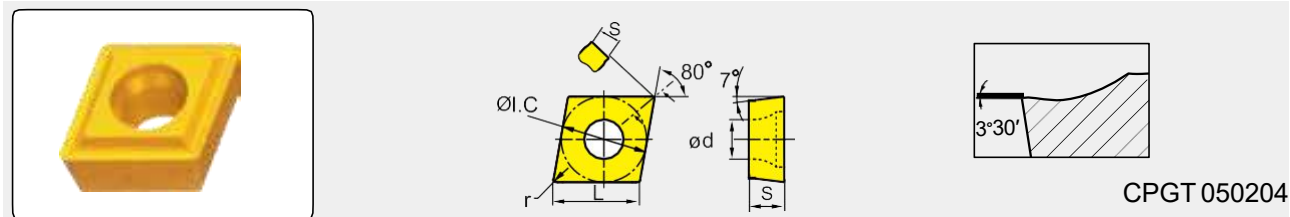
[illegible]

CCMW 060204

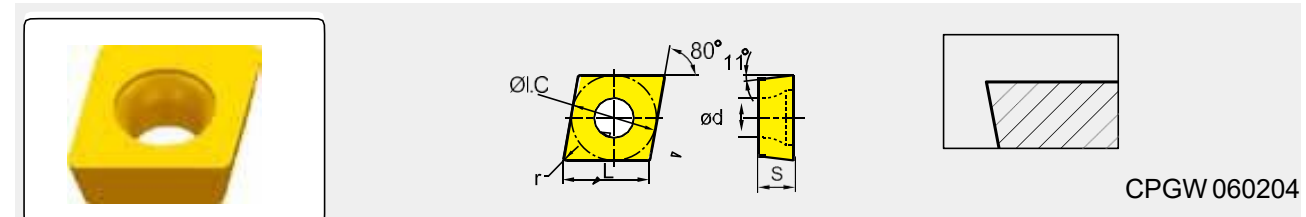
[illegible]



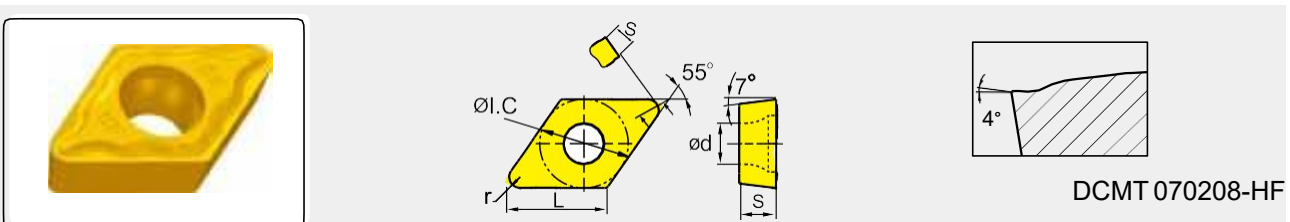
Turning Insert 车削刀片



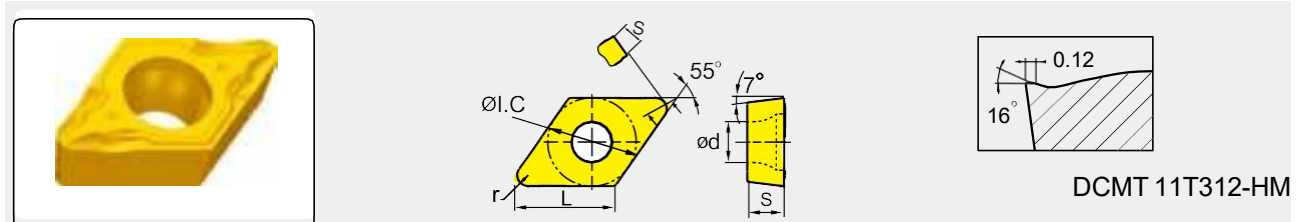
	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT6320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
CPGT	050204	1.8(1.5)1	5.6	5.56	2.38	2.8	0.4	●											○			



	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号						
								CVD						PVD										
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520		
	(ISO)	(inch)																						
CPGW	050204	1.8(1.5)1	5.6	5.56	2.38	2.5	0.4									●							●	○
	060204	2(1.5)1	6.4	6.35	2.38	2.8	0.4									●							●	



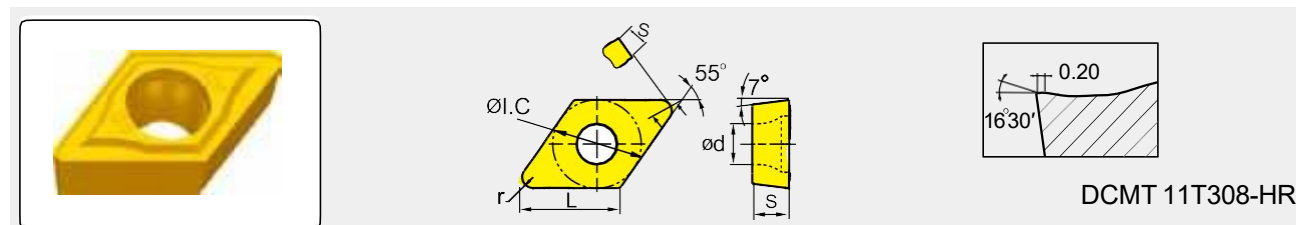
	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号					
								CVD					PVD										
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
DCMT	070202-HF	2(1.5)0-HF	7.8	6.35	2.38	2.8	0.2	●	○								○			○			
	070204-HF	2(1.5)1-HF	7.8	6.35	2.38	2.8	0.4	●	○			○							○			○	
	070208-HF	2(1.5)2-HF	7.8	6.35	2.38	2.8	0.8	●	○			○					○						
	11T302-HF	3(2.5)0-HF	11.6	9.525	3.97	4.4	0.2	●	○								○			○			
	11T304-HF	3(2.5)1-HF	11.6	9.525	3.97	4.4	0.4	●	○			○					○						
	11T308-HF	3(2.5)2-HF	11.6	9.525	3.97	4.4	0.8	●	○			○					○						



	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD					PVD									
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
DCMT	(ISO)	(inch)																				
	070204-HM	2(1.5)1-HM	7.8	6.35	2.38	2.8	0.4	○	●	○		○			○		○					
	070208-HM	2(1.5)2-HM	7.8	6.35	2.38	2.8	0.8	○	●	○		○			○		○					
	11T304-HM	3(2.5)1-HM	11.6	9.525	3.97	4.4	0.4	○	●	○		○			○		○		○		○	
	11T308-HM	3(2.5)2-HM	11.6	9.525	3.97	4.4	0.8	○	●	○		○			○		○					
	11T312-HM	3(2.5)3-HM	11.6	9.525	3.97	4.4	1.2	○	●	○		○			○		○					

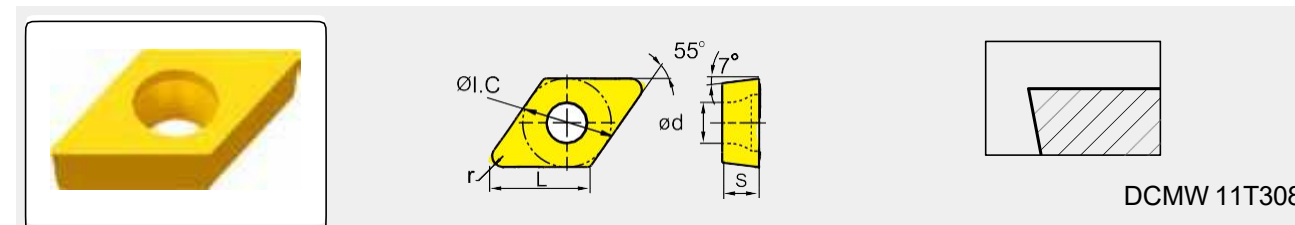


Turning Insert 车削刀片



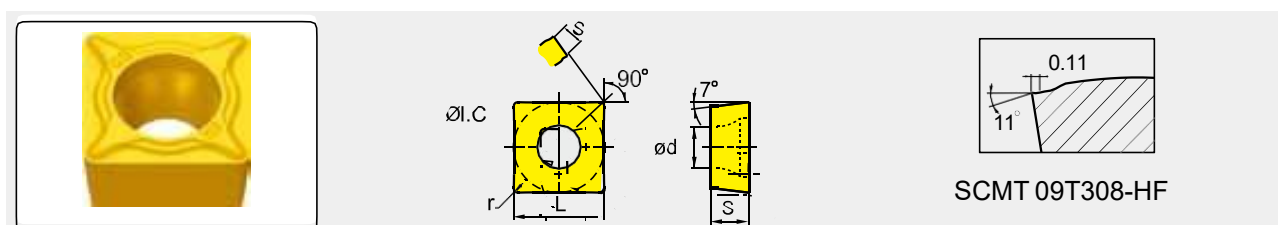
DCMT 11T308-HR

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号			
								CVD						PVD									
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
DCMT	(ISO)	(inch)																					
	11T304-HR	3(2.5)1-HR	11.6	9.525	3.97	4.4	0.4	○	●	○											○		
	11T308-HR	3(2.5)2-HR	11.6	9.525	3.97	4.4	0.8	○	●	○											○		
	11T312-HR	3(2.5)3-HR	11.6	9.525	3.97	4.4	1.2	○	●	○											○		



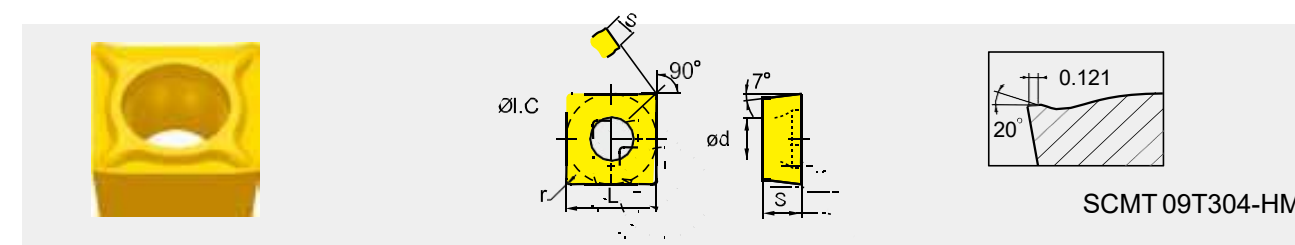
DCMW 11T308

	Type 型号		Dimension(mm) 基本尺寸						Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
									CVD								PVD						
			L	ΦI.C	S	Φd	a	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
DCMW	11T304	3(2.5)1	11.6	9.525	3.97	4.4	7	0.4								●							○
	11T308	3(2.5)2	11.6	9.525	3.97	4.4	7	0.8								●							○
DPMW	11T304	3(2.5)1	11.6	9.525	3.97	4.4	11	0.4								●							○
	11T308	3(2.5)2	11.6	9.525	3.97	4.4	11	0.8								●							○
DCGW	11T304	3(2.5)1	11.6	9.525	3.97	4.4	7	0.4								●							○
	11T308	3(2.5)2	11.6	9.525	3.97	4.4	7	0.8								●							○



SCMT 09T308-HF

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号			
								CVD						PVD									
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
	(ISO)	(inch)																					
SCMT	09T302-HF	3(2.5)0-HF	9.525	9.525	3.97	4.4	0.2	●	○			○					○						
	09T304-HF	3(2.5)1-HF	9.525	9.525	3.97	4.4	0.4	●	○			○					○						
	09T308-HF	3(2.5)2-HF	9.525	9.525	3.97	4.4	0.8	●	○			○					○						

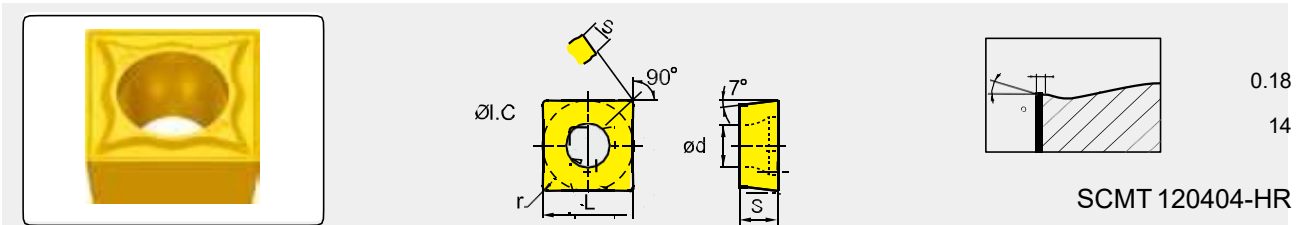


SCMT 09T304-HM

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号				
								CVD								PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520		
	(ISO)	(inch)																						
SCMT	09T304-HM	3(2.5)1-HM	9.525	9.525	3.97	4.4	0.4	○	●				○			○		○						
	09T308-HM	3(2.5)2-HM	9.525	9.525	3.97	4.4	0.8	○	●				○			○		○						
	120404-HM	431-HM	12.7	12.7	4.76	5.56	0.4	○	●				○			○		○						
	120408-HM	432-HM	12.7	12.7	4.76	5.56	0.8	○	●				○			○		○						
	120412-HM	433-HM	12.7	12.7	4.76	5.56	1.2	○	●				○			○		○						

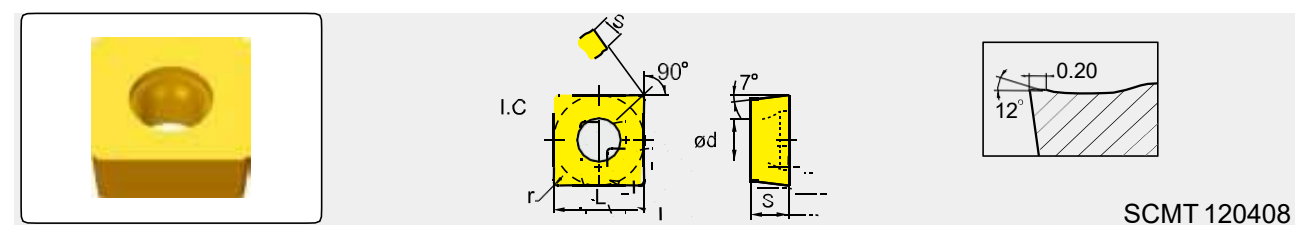


Turning Insert 车削刀片



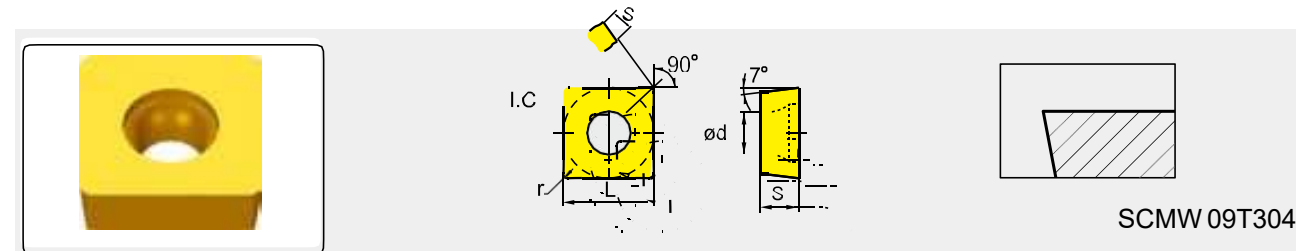
SCMT 120404-HR

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号			
								CVD								PVD							
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
SCMT	(ISO)	(inch)																					
	09T304-HR	3(2.5)1-HR	9.525	9.525	3.97	4.4	0.4	○	●	○													
	09T308-HR	3(2.5)2-HR	9.525	9.525	3.97	4.4	0.8	○	●	○													
	120404-HR	431-HR	12.7	12.7	4.76	5.56	0.4	○	●	○													
	120408-HR	432-HR	12.7	12.7	4.76	5.56	0.8	○	●	○													
	120412-HR	433-HR	12.7	12.7	4.76	5.56	1.2	○	●	○													



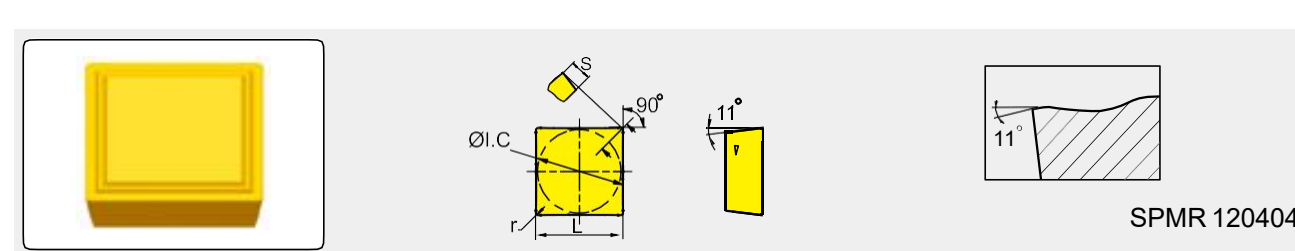
SCMT 120408

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
								CVD								PVD						
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
	(ISO)	(inch)																				
SCMT	09T304	3(2.5)1	9.525	9.525	3.97	4.4	0.4	○	●											○		○
	120404	431	12.7	12.7	4.76	5.5	0.4	○	●													○
	120408	432	12.7	12.7	4.76	5.5	0.8	○	●													○



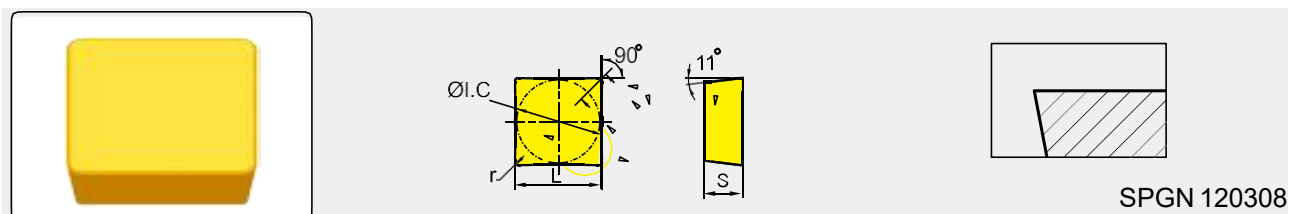
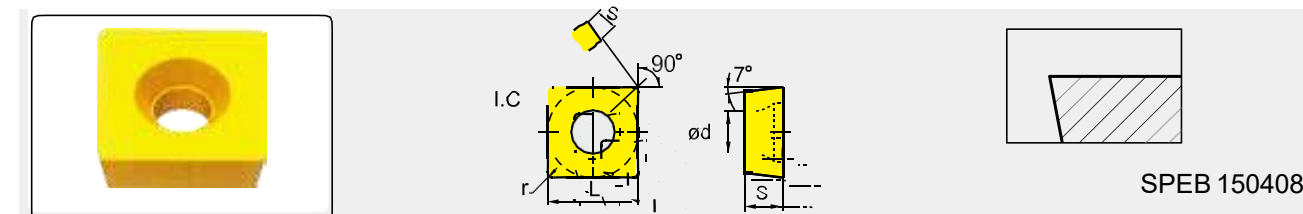
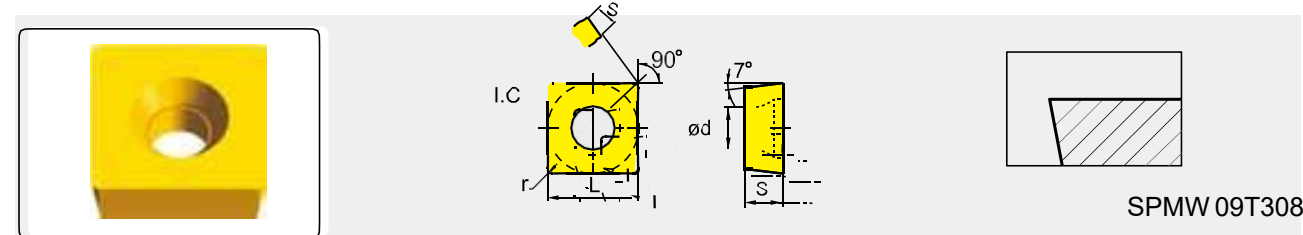
SCMW 09T304

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号			
								CVD								PVD							
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
	(ISO)	(inch)																					
SCMW	060204	2(1.5)1	6.35	6.35	2.38	2.8	0.4									●							
	09T304	3(2.5)1	9.525	9.525	3.97	4.4	0.4									●							○
	09T308	3(2.5)2	9.525	9.525	3.97	4.4	0.8									●							○



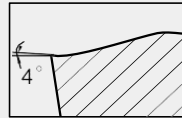
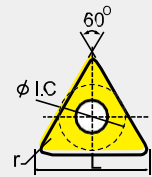
SPMR 120404

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号					
								CVD								PVD									
			L	ΦI.C	S	r		JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520			
SPMR	090304	321	9.525	9.525	3.18	0.4			○				○					○							
	090308	322	9.525	9.525	3.18	0.8			○				○					○							
	09T304	3(2.5)1	9.525	9.525	3.97	0.4			○				○					○							
	09T308	3(2.5)2	9.525	9.525	3.97	0.8			○				○					○							
	120304	421	12.7	12.7	3.18	0.4			○				○					○							
	120308	422	12.7	12.7	3.18	0.8			○				○					○							
	120312	423	12.7	12.7	3.18	1.2			○				○					○							

[illegible][illegible][illegible]

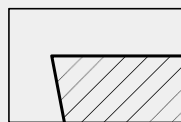
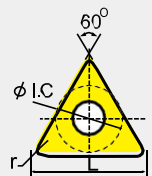


Turning Insert 车削刀片



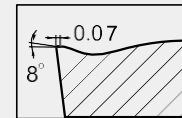
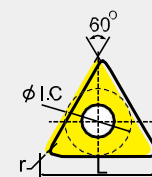
TCMT 16T304-HF

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号					
								CVD								PVD							
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
TCMT	06T102-HF	1.2(1.2)0-HF	6.4	3.97	1.98	2.2	0.2	●									○						
	06T104-HF	1.2(1.2)1-HF	6.4	3.987	1.98	2.2	0.4	●	○	○							○						
	06T108-HF	1.2(1.2)2-HF	6.4	3.97	1.98	2.2	0.8	●	○	○							○						
	090202-HF	1.8(1.5)0-HF	9.6	5.56	2.38	2.5	0.2	●	○	○							○						
	090204-HF	1.8(1.5)1-HF	9.6	5.56	2.38	2.5	0.4	●	○	○							○						
	090208-HF	1.8(1.5)2-HF	9.6	5.56	2.38	2.5	0.8	●	○	○							○						
	110202-HF	2(1.5)0-HF	11	6.35	2.38	2.8	0.2	●	○	○							○						
	110204-HF	2(1.5)1-HF	11	6.35	2.38	2.8	0.4	●	○	○							○						
	110208-HF	2(1.5)2-HF	11	6.35	2.38	2.8	0.8	●	○	○							○						
	16T302-HF	3(2.5)0-HF	16.5	9.525	3.97	4.4	0.2	●	○	○							○						
	16T304-HF	3(2.5)1-HF	16.5	9.525	3.97	4.4	0.4	●	○	○							○						
	16T308-HF	3(2.5)2-HF	16.5	9.525	3.97	4.4	0.8	●	○	○							○						



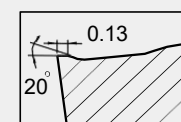
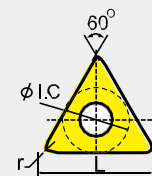
TCMW 110204

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号					
								CVD					PVD										
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
TCMW	110204	2(1.5)1	11	6.35	2.38	2.8	0.4	●	○							○							○
	16T304	3(2.5)1	16.5	9.525	3.97	4.4	0.4	●	○							○							○
	16T308	3(2.5)2	16.5	9.525	3.97	4.4	0.8	●	○							○							
	16T312	3(2.5)3	16.5	9.525	3.97	4.4	1.2	●	○														
	220408	432	22	12.7	4.76	5.5	0.8	●	○														
TCGW	16T304	3(2.5)1	16.5	9.525	3.97	4.4	0.4	●	○														
	16T308	3(2.5)2	16.5	9.525	3.97	4.4	0.8	●	○														
	16T312	3(2.5)3	16.5	9.525	3.97	4.4	1.2	●	○														



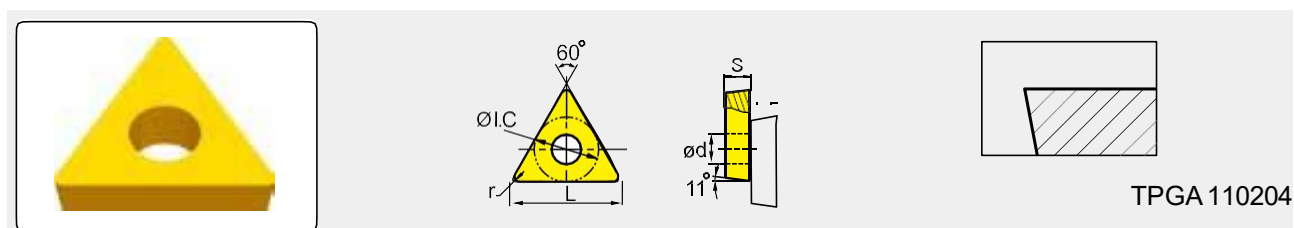
TCMT 16T308-HM

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD					PVD									
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
TCMT	(ISO)	(inch)																				
	090204-HM	1.8(1.5)1-HM	9.6	5.56	2.38	0.4		○	●	○					○		○					
	090208-HM	1.8(1.5)2-HM	9.6	5.56	2.38	0.8		○	●	○					○		○					
	110204-HM	2(1.5)1-HM	11	6.35	2.38	0.4		○	●	○					○		○					
	110208-HM	2(1.5)2-HM	11	6.35	2.38	0.8		○	●	○					○		○					
	16T304-HM	3(2.5)1-HM	16.5	9.525	3.97	0.4		○	●	○					○		○					
	16T308-HM	3(2.5)2-HM	16.5	9.525	3.97	0.8		○	●	○					○		○					
	16T312-HM	3(2.5)3-HM	16.5	9.525	3.97	1.2		○	●	○					○		○					

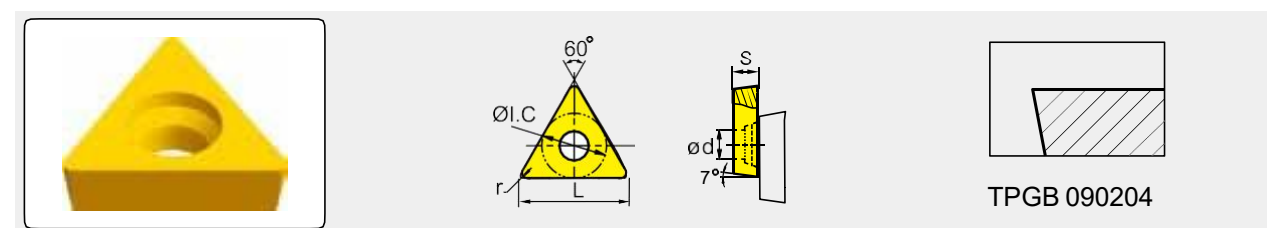


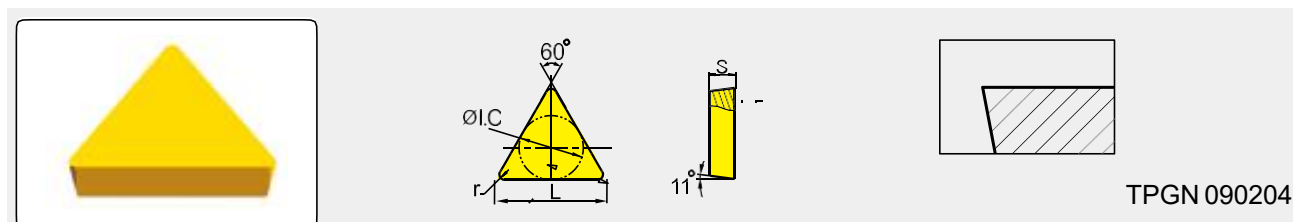
TCGH 110304

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD							PVD							
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
TCGH	(ISO)	(inch)																				
	110304	221	11	6.35	3.18	2.26	0.4		●						○							
	110308	222	11	6.35	3.18	2.26	0.8		●						○							
	160304	321	16.5	9.525	3.18	3.81	0.4		●						○							
	160308	322	16.5	9.525	3.18	3.81	0.8		●						○							



	Type 型号	Dimension(mm) 基本尺寸	Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号							
			CVD								PVD											
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
TPGA	090204	1.8(1.5)1	9.6	5.56	2.38	3.2	0.4								●							○
	090208	1.8(1.5)2	9.6	5.56	2.38	3.2	0.8								●							○
	110204	2(1.5)1	11	6.35	2.38	3.4	0.4								●							○
	110212	2(1.5)2	11	6.35	2.38	3.5	1.2								●							○
	160304	321	16.5	9.525	3.18	3.81	0.4								●							○
	160308	322	16.5	9.525	3.18	4.2	0.8								●							○

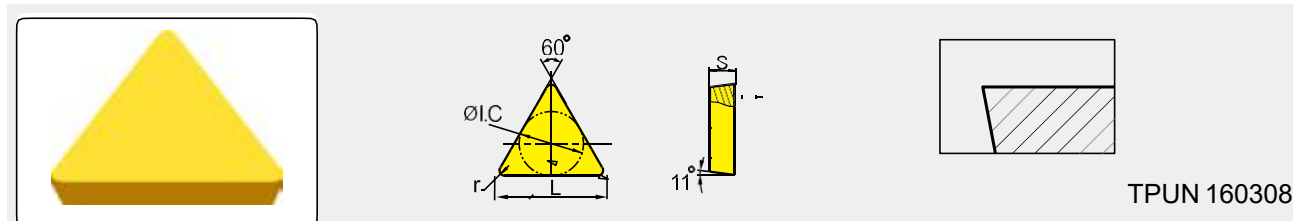
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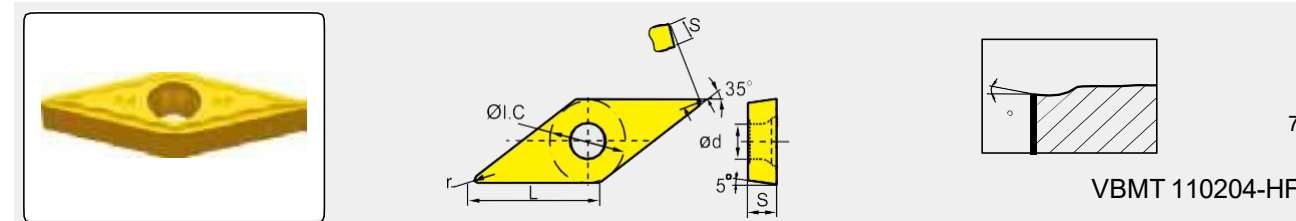
Technical drawing of a yellow triangular prism. The front view shows an equilateral triangle with a height of 60 mm and a base of 110 mm. The top view shows a rectangle with dimensions 110 mm by 110 mm. The side view shows a rectangle with a height of 60 mm and a width of 110 mm. The material is labeled as TPMR 090204.

TPGW 090204

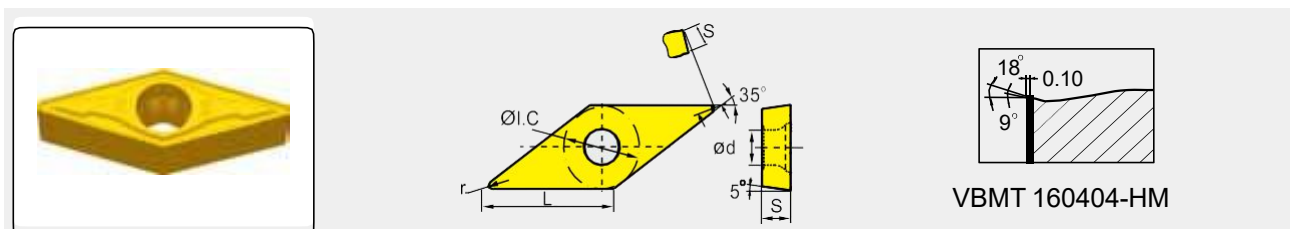
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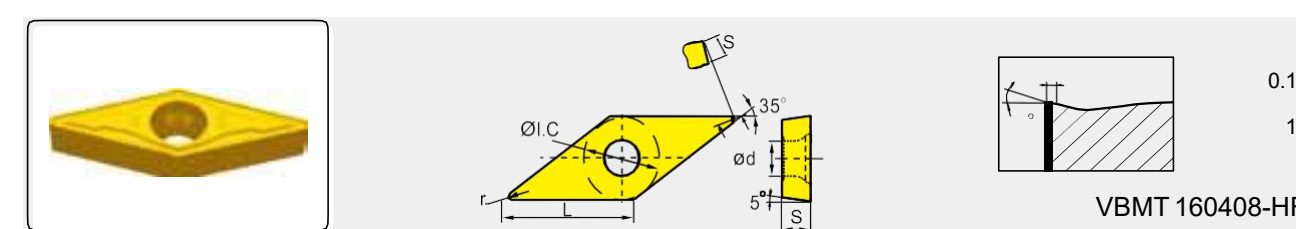
	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD						PVD								
			L	ΦI.C	S	r		JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
TPUN	(ISO)	(inch)																				
	110208	2(1.5)2	11	6.35	2.38	0.8								○								
	110304	221	11	6.35	3.18	0.4								○								
	110308	222	11	6.35	3.18	0.8								○								
	160304	321	16.5	9.525	3.18	0.4								○								
	160308	322	16.5	9.525	3.18	0.8								○								
	160312	323	16.5	9.525	3.18	1.2								○								
	160408	332	16.5	9.525	4.76	0.8								○								
	160412	333	16.5	9.525	4.76	1.2								○								
	220404	431	22	12.7	4.76	0.4								○								
	220408	432	22	12.7	4.76	0.8								○								
	220412	433	22	12.7	4.76	1.2								○								
220416	434	22	12.7	4.76	1.6								○									

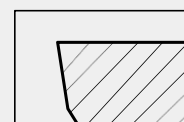
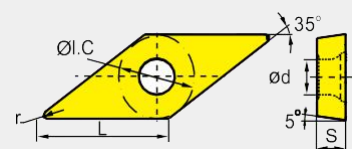


	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号				
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT6250	JT6450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
			(ISO)	(inch)																		
VBMT	110202-HF	2(1.5)0-HF	11	6.35	2.38	2.8	0.2	●	○		○						○					
	110204-HF	2(1.5)1-HF	11	6.35	2.38	2.8	0.4	●	○		○						○					
	110208-HF	2(1.5)2-HF	11	6.35	2.38	2.8	0.8	●	○		○						○					



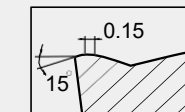
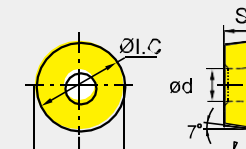
	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号		
								CVD						PVD								
			L	ΦI.C	S	Φd	r	JT5320	JT6350	JT6220	JT6250	JT6450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
VBMT	(ISO) 160404-HM	(inch) 331-HM	16.6	9.525	4.76	4.4	0.4	○	●	○		●			○		○					
	160408-HM	332-HM	16.6	9.525	4.76	4.4	0.8	○	●	○		●			○		○					
	160412-HM	333-HM	16.6	9.525	4.76	4.4	1.2	○	●	○		●			○		○					

[illegible]



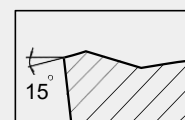
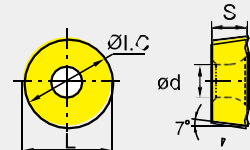
VBMW 160404

	Type 型号		Dimension(mm) 基本尺寸					Coated Grade 涂层牌号												Uncoated Grade 非涂层牌号			
								CVD						PVD									
			L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520	
	(ISO)	(inch)																					
VBMW	160404	331	16.6	9.525	4.76	4.4	0.4									●							○
VBGW	160404	331	16.6	9.525	4.76	4.4	0.4									●							○
	160408	332	16.6	9.525	4.76	4.4	0.8									●							○

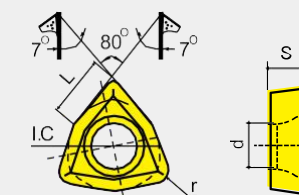


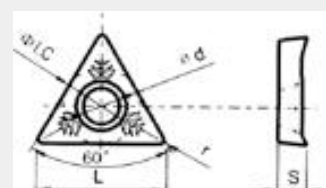
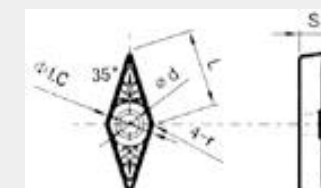
RCGT 1204MO

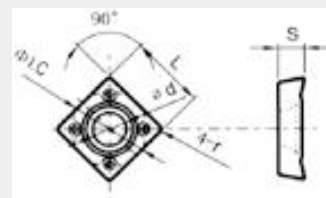
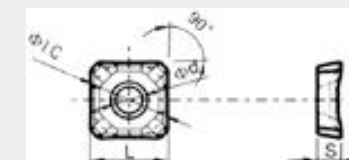
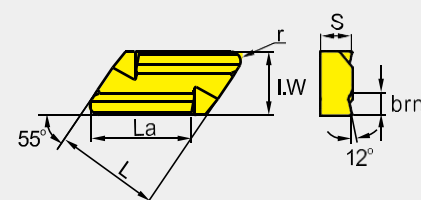
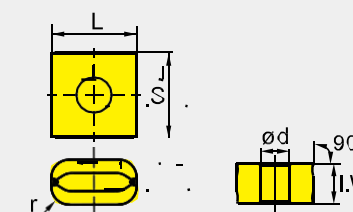
	Type 型号	Dimension(mm) 基本尺寸						Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号		
								CVD							PVD					
		ΦI.C	S	Φd			JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230
	(ISO)																			
RCGT	1204MO	12	4.76	4.2				●							●					
	1906-MO	19.05	6.35	6.35				●							●					
RCMT	1606MO	16	6.35	5.2			○		○						●					
	2507MO	25	7.94	7.2				●	○						●					
	0803MO	8.0	3.18	3.36				●							●					
	1204MO	12.0	4.76	4.4				●							●					

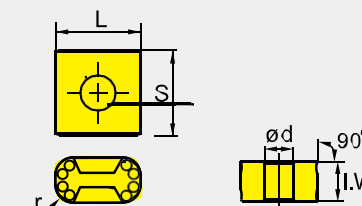
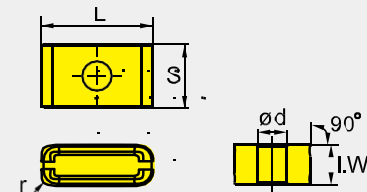


RCMX 2507MO

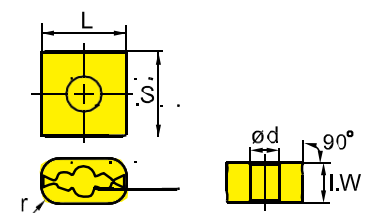
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[illegible][illegible][illegible][illegible]

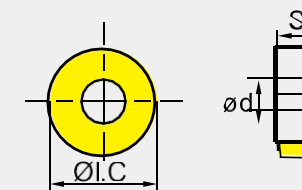
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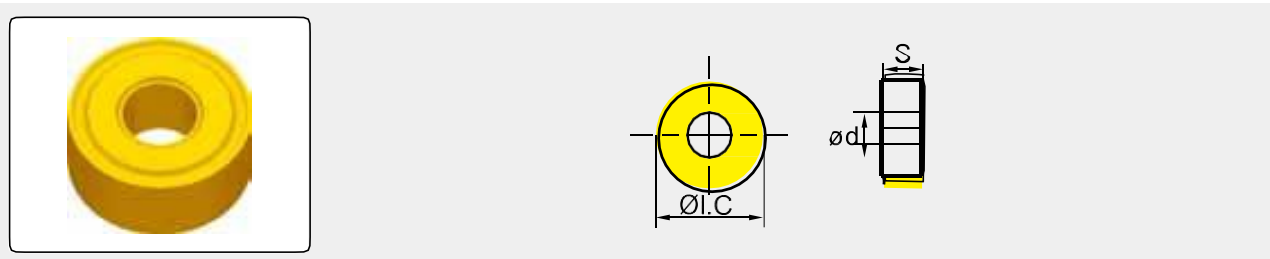
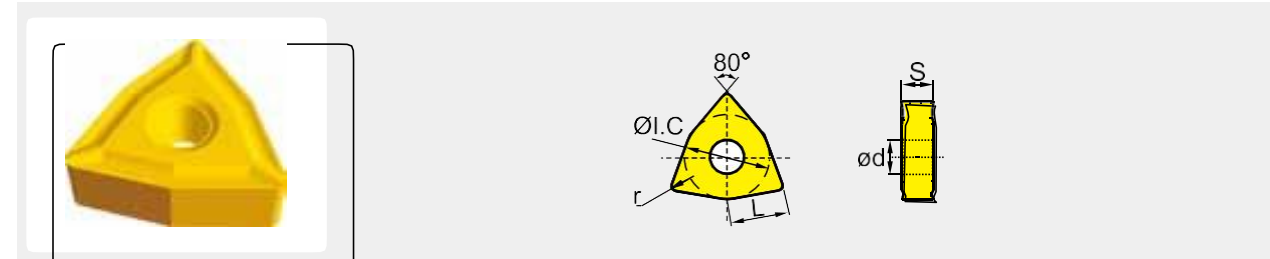
Type 型号	Dimension(mm) 基本尺寸					Coated 涂层牌号												Uncoated 非涂层牌号		
						CVD										PV				
	L	I.W	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JJA2530	JJA2320	JJA2420	JP141	JJA2230	JJA2520
175.32-191940-25	19.05	10	19.05	6.35	4	○	●							○						



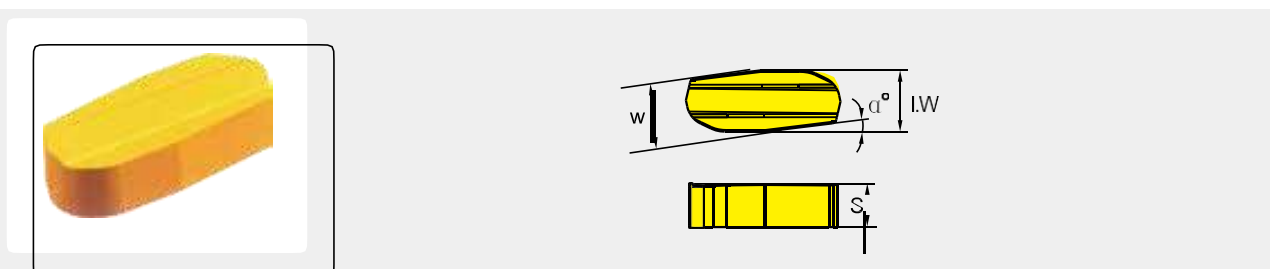
Type 型号	Dimension(mm) 基本尺寸					Coated 涂层牌号										Uncoated 非涂层牌号						
						CVD								PV								
	L	I.W	S	Φd	r	JT5320	JT5360	JT5220	JT5260	JT5460	JT1420	JT4230	JT4520	JT4220D	JA2530		JA2320	JA2420	JP141	JA2230	JA2520	
175.32-191940-28	19.05	10	19.05	6.35	4	●	○							○								



Type 型号		Dimension(mm) 基本尺寸					Coated 涂层牌号										Uncoated 非涂层牌号				
							CVD								PV						
		L	ΦI.C	S	Φd		JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530		JA2320	JA2420	JP141	JA2230
RNGX	3812M0-035	38.1	38.1	12.7	12.5			○						○							

[illegible]

Type 型号		Dimension(mm) 基本尺寸					Coated 涂层牌号										Uncoated 非涂层牌号				
							CVD								PV D						
		L	ΦI.C	S	Φd	r	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4220D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
TNMX	1106-2	11.3	15.875	6.35	6.35	1.6	○	○			○	○									
	1509-2	15.9	22.225	9.52	7.94	1.6	○	○			○	○									
	15T916-2	15.9	22.225	9.72	7.94	1.6	○	○			○	○									



Type 型号		Dimension(mm) 基本尺寸				Coated 涂层牌号										Uncoated 非涂层牌号				
						CVD								PV D						
		I.W	W	S	a	JT5320	JT5350	JT5220	JT5250	JT5450	JT1420	JT4230	JT4520	JT4200D	JA2530	JA2320	JA2420	JP141	JA2230	JA2520
YNMX	1812L	18	22	12	20°		○				○	○								
	2518173L	25	25	18	7°		○				○	○								
YNUX	1812150L	18	18	12	15°		○				○	○								



金属陶瓷 Cermet

金属陶瓷硬质相的主要成分为 **TiCN**。这种硬质相与硬质合金的硬质相 **WC** 相比，高温强度和抗氧化性能更优越，并难与被切削材料发生反应。

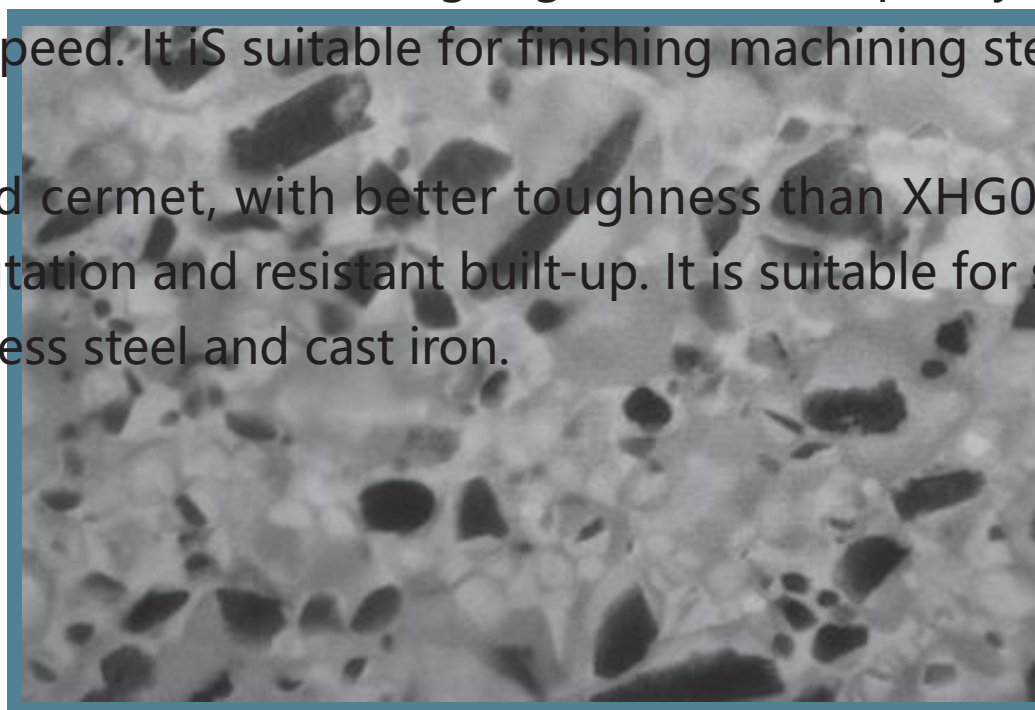
XHG051 TiCN 基金属陶瓷，提高了化学稳定性和耐磨性，结合锋利的切削刃槽型使用，无论在高速和低速条件下都能保证加工件的表面质量。适合于钢、不锈钢、铸铁的精加工。

XHG151 TiCN 基金属陶瓷，于 **XHG051** 相比，韧性更好，具有极好的抗塑性变形和积屑瘤性。适合于钢、不锈钢、铸铁的半精和精加工。

TiCN are the main compositions of cermet. WC of cermet has higher hardness and oxygen-resistant than cemented carbide in high temperature. It is hard to react with work-piece.

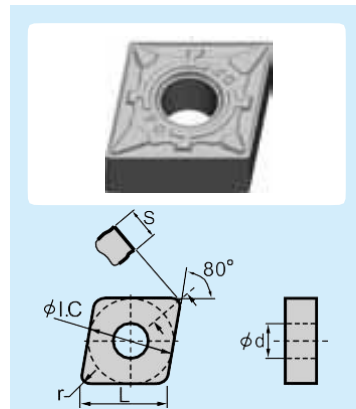
XHG051 TiCN based cermet, improves chemic stability and wear-resistant. Using with sharp cutting edge and chip-breaker, it can be got good surface quality whether under conditions of high speed or low speed. It is suitable for finishing machining steel, stainless steel and cast iron.

XHG151 TiCN based cermet, with better toughness than XHG051, fine resistant thermoplastic transmutation and resistant built-up. It is suitable for semi-finishing and finishing machining steel, stainless steel and cast iron.

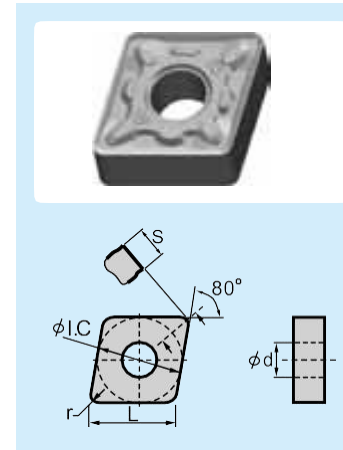




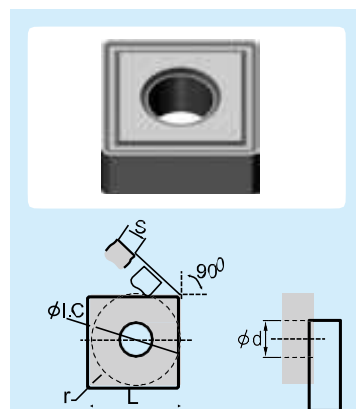
Turning Insert 车削刀片



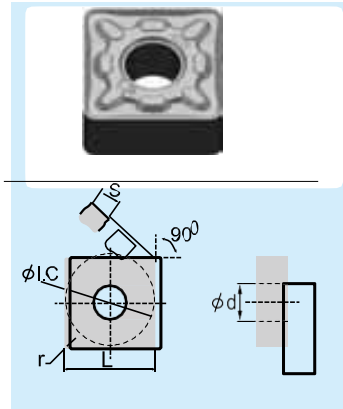
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
			L	ΦI.C	S	Φd	r	JA2230	JA2520			
CNMG	090304-DF	321-DF	9.7	9.525	3.18	3.81	0.4	○	●			
	090308-DF	322-DF	9.7	9.525	3.18	3.81	0.8	○	●			
	120404-DF	431-DF	12.9	12.7	4.76	5.16	0.4		●			
	120408-DF	432-DF	12.9	12.7	4.76	5.16	0.8		●			
	120412-DF	433-DF	12.9	12.7	4.76	5.16	1.2		●			



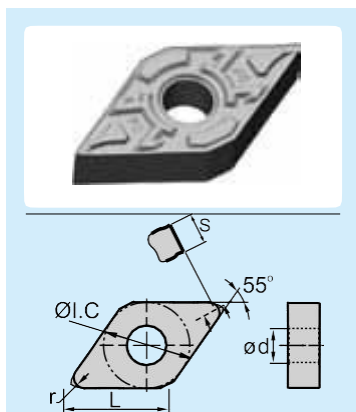
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
			L	ΦI.C	S	Φd	r	JA2230	JA2520			
CNMG	090304-DM	321-DM	9.7	9.525	3.18	3.81	0.4	○	●			
	090308-DM	322-DM	9.7	9.525	3.18	3.81	0.8	○	●			
	120404-DM	431-DM	12.9	12.7	4.76	5.16	0.4		●			
	120408-DM	432-DM	12.9	12.7	4.76	5.16	0.8		●			
	120412-DM	433-DM	12.9	12.7	4.76	5.16	1.2		●			
	120416-DM	434-DM	12.9	12.7	4.76	5.16	1.6					



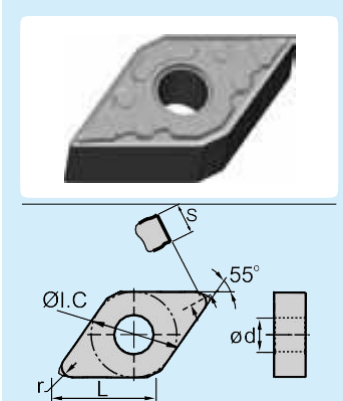
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
			L	ΦI.C	S	Φd	r	JA2230	JA2520			
SNMG	090304	321	9.525	9.525	3.18	3.81	0.4	○	●			
	090308F	322	9.525	9.525	3.18	3.81	0.8	○	●			



Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
			L	ΦI.C	S	Φd	r	JA2230	JA2520			
SNMG	090304-DM	321-DM	9.525	9.525	3.18	3.81	0.4	○	●			
	090308-DM	322-DM	9.525	9.525	3.18	3.81	0.8	○	●			
	120404-DM	431-DM	12.7	12.7	4.76	5.16	0.4		●			
	120412-DM	433-DM	12.7	12.7	4.76	5.16	1.2		●			
	150608-DM	542-DM	15.875	15.875	6.35	6.35	0.8		●			



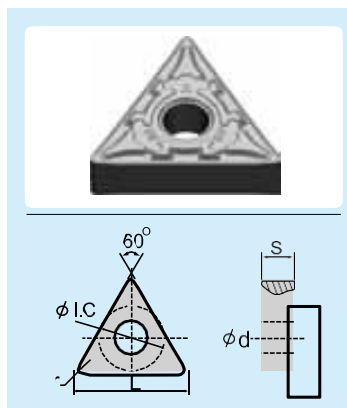
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
			L	ΦI.C	S	Φd	r	JA2230	JA2520			
DNMG	110404-DF	331-DF	11.6	9.525	4.76	3.81	0.4		●			
	150404-DF	431-DF	15.5	12.7	4.76	5.16	0.4		●			



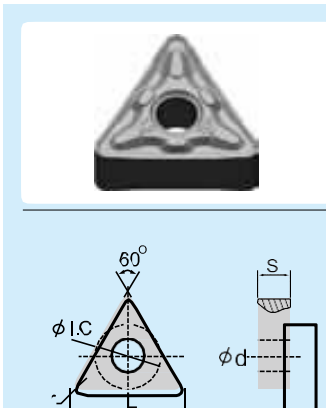
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
			L	ΦI.C	S	Φd	r	JA2230	JA2520			
DNMG	110404-DM	331-DM	11.6	9.525	4.76	3.81	0.4		●			
	150404-DM	431-DM	15.5	12.7	4.76	5.16	0.4		●			
	150408-DM	432-DM	15.5	12.7	4.76	5.16	0.8		●			
	150604-DM	441-DM	15.5	12.7	6.35	5.16	0.4		●			
	150608-DM	442-DM	15.5	12.7	6.35	5.16	0.8		●			



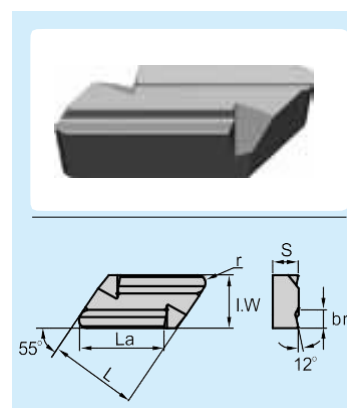
Turning Insert 车削刀片



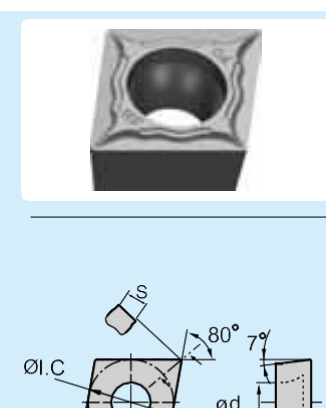
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
TNMG	(ISO)	(inch)	L	ΦI.C	S	Φd	r	JA2230	JA2520			
	160404-DF	331-DF	16.5	9.525	4.76	3.81	0.4		•			
	160408-DF	332-DF	16.5	9.525	4.76	3.81	0.8		•			
	160412-DF	333-DF	16.5	9.525	4.76	3.81	T1.2		•			



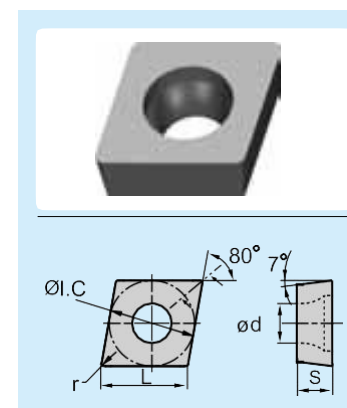
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
TNMG	(ISO)	(inch)	L	ΦI.C	S	Φd	r	JA2230	JA2520			
	160404-DM	321-DM	16.5	9.525	4.76	3.81	0.4		•			
	160408-DM	322-DM	16.5	9.525	4.76	3.81	0.8		•			
	220408-DM	432-DM	22	12.7	4.76	5.16	0.8		•			
	220412-DM	433-DM	22	12.7	4.76	5.16	1.2		•			



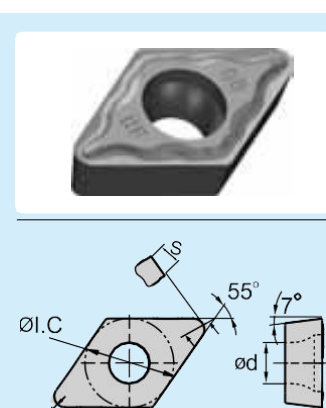
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
KNUX	(ISO)		L	La	I.W	S	r	brn	JA2230	JA2520		
	160405R11		16.15	16.0	9.525	4.76	0.5	2.2		•		
	160405L11		16.15	16.0	9.525	4.76	0.5	2.2		•		
	160410R11		16.15	16.0	9.525	4.76	0.5	2.2		•		
	160410L11		16.15	16.0	9.525	4.76	0.5	2.2		•		



Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
CCMT	(ISO)	(inch)	L	ΦI.C	S	Φd	r	JA2230	JA2520			
	060202-HF	2(1.5)0-HF	6.4	6.35	2.38	2.8	0.2	○	•			
	060204-HF	2(1.5)1-HF	6.4	6.35	2.38	2.8	0.4	○	•			
	060208-HF	2(1.5)2-HF	6.4	6.35	2.38	2.8	0.8	○	•			
	09T302-HF	3(2.5)0-HF	9.7	9.525	3.97	4.4	0.2	○	•			
	09T304-HF	3(2.5)1-HF	9.7	9.525	3.97	4.4	0.4	○	•			
	09T308-HF	3(2.5)2-HF	9.7	9.525	3.97	4.4	0.8	○	•			
	120404-HF	431-HF	12.9	12.7	4.76	5.5	0.4		•			



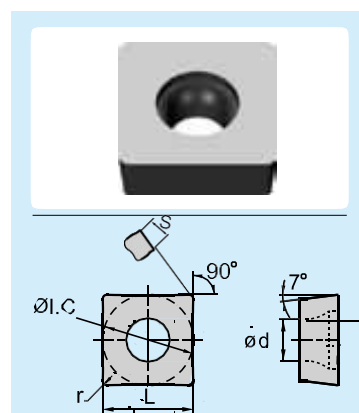
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
CCMW	(ISO)	(inch)	L	ΦI.C	S	Φd	r	JA2230	JA2520			
	060204	2(1.5)1	6.4	6.35	2.38	2.8	0.4	○	•			
	09T304	3(2.5)1	9.7	9.525	3.97	4.4	0.4	○	•			
	09T308	3(2.5)2	9.7	9.525	3.97	4.4	0.8	○	•			



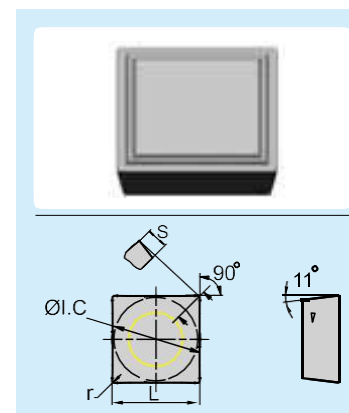
Type 型号			Dimension(mm) 基本尺寸					Grade 牌号				
DCMT	(ISO)	(inch)	L	ΦI.C	S	Φd	r	JA2230	JA2520			
	070202-HF	2(1.5)0-HF	7.8	6.35	2.38	2.8	0.2	○	•			
	070204-HF	2(1.5)1-HF	7.8	6.35	2.38	2.8	0.4	○	•			
	070208-HF	2(1.5)2-HF	7.8	6.35	2.38	2.8	0.8	○	•			
	11T302-HF	3(2.5)0-HF	11.6	9.525	3.97	4.4	0.2		•			
	11T304-HF	3(2.5)1-HF	11.6	9.525	3.97	4.4	0.4		•			



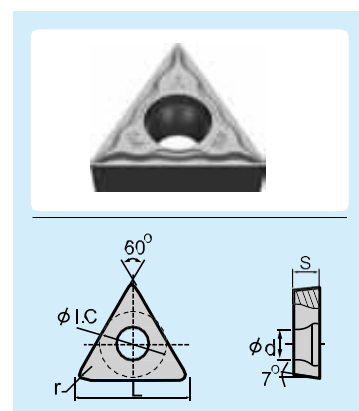
Turning Insert 车削刀片



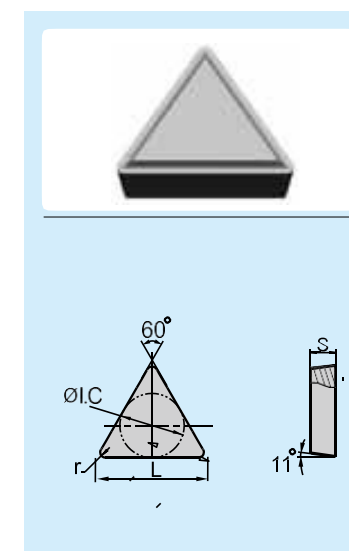
Type 型号			Dimension(mm) 基本尺寸						Grade 牌号					
			L	ΦI.C	S	Φd	r	JA2230	JA2520					
SCMW	(ISO)	(inch)												
	060204	2(1.5)1	6.35	6.35	2.38	2.8	0.4	○	●					
	09T304	3(2.5)	9.525	9.525	3.97	4.4	0.4	○	●					
	09T308	3(2.5)21	9.525	9.525	3.97	4.4	0.8		●					
	120408	432	12.7	12.7	4.76	5.5	0.8		●					



Type 型号			Dimension(mm) 基本尺寸						Grade 牌号					
			L	ΦI.C	S	d	r	JA2230	JA2520					
SPMR	(ISO)	(inch)												
	090304	321	9.525	9.525	3.18		0.4	○	●					
	090308	322	9.525	9.525	3.18		0.8	○	●					
	120304	421	12.7	12.7	3.18		0.4		●					
	120308	422	12.7	12.7	3.18		0.8		●					



Type 型号			Dimension(mm) 基本尺寸						Grade 牌号					
			L	ΦI.C	S	Φd	r	JA2230	JA2520					
TCMT	(ISO)	(inch)												
	090202-HF	1.8(1.5)0-HF	9.6	5.56	2.38	2.5	0.2	○	●					
	090204-HF	1.8(1.5)1-HF	9.6	5.56	2.38	2.5	0.4	○	●					
	090208-HF	1.8(1.5)2-HF	9.6	5.56	2.38	2.5	0.8	○	●					
	16T304-HF	3(2.5)1-HF	16.5	9.525	3.97	4.4	0.4		●					



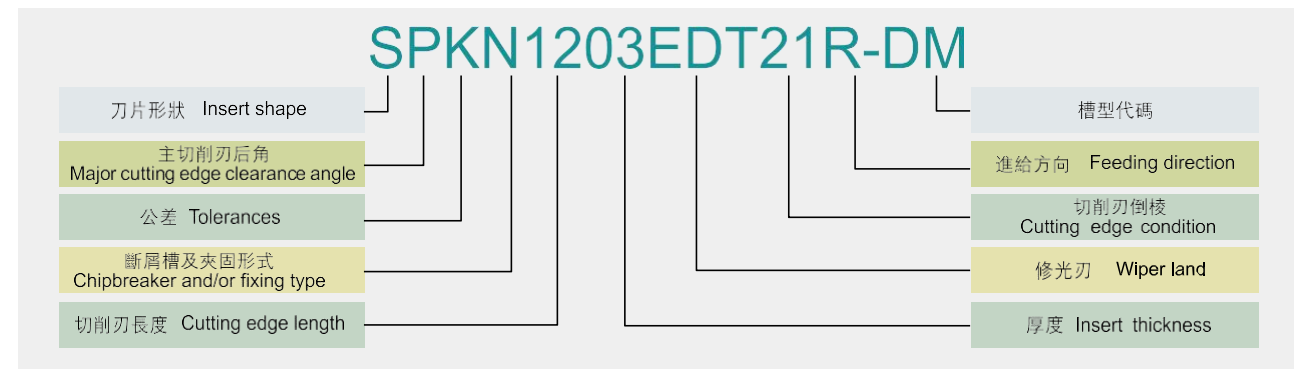
Type 型号			Dimension(mm) 基本尺寸						Grade 牌号					
			L	ΦI.C	S	r		JA2230	JA2520					
TPMR	(ISO)	(inch)												
	110304	221	11	6.35	3.18	0.4			●					
	110308	222	11	6.35	3.18	0.8			●					
	160304	321	16.5	9.525	3.18	0.4			●					
	160308	322	16.5	9.525	3.18	0.8			●					
	090202	1.8(1.5)0	9.6	5.56	2.38	0.2		○	●					
TPGR	(ISO)	(inch)												
	090204	1.8(1.5)1	9.6	5.56	2.38	0.4		○	●					



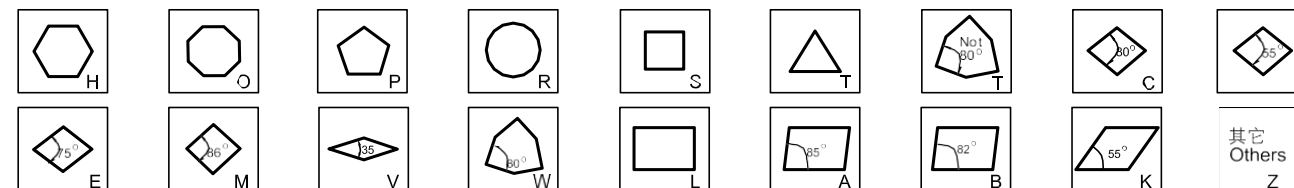
Milling Insert 铣削刀片



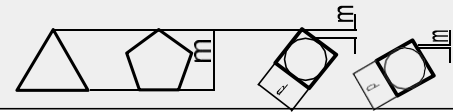
範例 Example



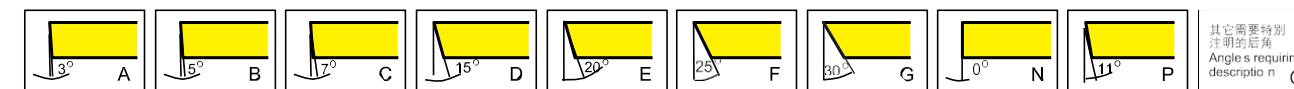
刀片形狀 Insert shape



d. 內切圓直徑 D. Theoretical diameter of inscribed circle
s. 刀片厚度 s. Insert thickness
M. 見圖例 m. See Fig.



主切削刃后角 Major cutting edge Clearance angle



公差 Tolerances, mm inch

級別符號 Letter Symbol	公差 Tolerances in mm	公差 Tolerances in mm	公差 Tolerances in mm	公差 Tolerances in mm	公差 Tolerances in mm	公差 Tolerances in mm
	m	s	d	m	s	d
A	±0.005	±0.025	±0.025	±0.0002	±0.001	±0.0010
F	±0.005	±0.025	±0.013	±0.0002	±0.001	±0.0005
C	±0.013	±0.025	±0.025	±0.0005	±0.001	±0.0005
H	±0.013	±0.025	±0.013	±0.0005	±0.001	±0.0005
E	±0.025	±0.025	±0.025	±0.0010	±0.001	±0.0010
G	±0.025	±0.13	±0.025	±0.0010	±0.005	±0.0010
	±0.005	±0.025	±0.05 ±0.13	±0.0002	±0.001	±0.002 ±0.005
	±0.013	±0.025	±0.05 ±0.13	±0.0005	±0.001	±0.002 ±0.005
	±0.025	±0.025	±0.05 ±0.13	±0.0010	±0.001	±0.002 ±0.005
M	±0.08 ±0.18	±0.13	±0.05 ±0.13	±0.003 ±0.007	±0.005	±0.002 ±0.005
	±0.08 ±0.18	±0.025	±0.05 ±0.13	±0.003 ±0.007	±0.001	±0.002 ±0.005
	±0.13 ±0.38	±0.13	±0.08 ±0.25	±0.005 ±0.015	±0.005	±0.003 ±0.010

關於H, O, P, S, T, C, E, M, W, R, V, D型刀片，取決於刀片尺寸，參考下表。
Varies depending on the insert size for insert shapes H, O, P, S, T, C, E, M, W, R, V and D See table below
刀片形狀 H, O, P, S, T, C, E, M, W, R Insert shape H, O, P, S, T, C, E, M, W, R

內切圓直徑 d Inscribed circle diameter		公差 m Tolerances for M				公差 d Tolerances for d			
		級別 M Class M		級別 U Class U		級別 M.J.K.L Class M.J.K.L		級別 U Class U	
(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in
6.35	0.250	±0.08	±0.003	±0.13	±0.005	±0.05	±0.002	±0.08	±0.003
9.525	0.375	±0.08	±0.003	±0.13	±0.005	±0.05	±0.002	±0.08	±0.003
12.7	0.500	±0.13	±0.005	±0.20	±0.008	±0.08	±0.003	±0.13	±0.005
15.875	0.625	±0.15	±0.006	±0.27	±0.011	±0.10	±0.004	±0.18	±0.007
19.05	0.750	±0.15	±0.006	±0.27	±0.011	±0.10	±0.004	±0.18	±0.007
25.4	1.000	±0.18	±0.007	±0.38	±0.015	±0.13	±0.005	±0.25	±0.010

刀片形狀 D Insert shape D

內切圓直徑 d Inscribed circle diameter	公差 m Tolerance for m	公差 d Tolerance for d
(mm)	(in)	(mm)
6.35	0.250	±0.11
9.525	0.375	±0.11
12.70	0.500	±0.15
15.875	0.625	±0.18
19.05	0.750	±0.18

刀片形狀 V Insert shape V

內切圓直徑 d Inscribed circle diameter	公差 m Tolerance for m	公差 d Tolerance for d
(mm)	(in)	(mm)
6.35	0.250	±0.15
9.525	0.375	±0.15
12.70	0.500	±0.20
15.875	0.625	±0.27
19.05	0.750	±0.27

斷屑槽及夾固形式 Chipbreaker and/or fixing type

N	R	F	A	M	G	W	T
Q	U	B	H	C	J	專用設計或非標準 I.C. 值刀片 (用MO表示的圓形刀片除外) Special design	

厚度 Insert thickness, s mm

mm	00s=0.79	T0s=0.99	01s=1.59	T1s=1.98
02s=2.38	04s=4.76	06s=6.35	T9s=9.72	
T2s=2.58	T4s=4.96	T6s=6.75	11s=11.11	
03s=3.18	05s=5.56	07s=7.94	12s=12.70	
T3s=3.97	T5s=5.95	09s=9.52		

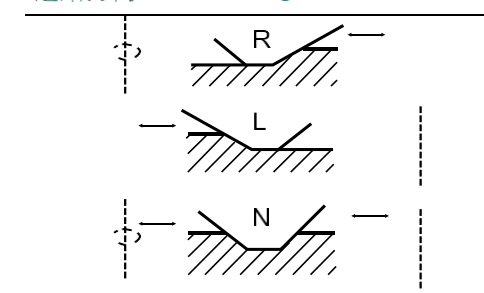
修光刃 Wiper land

小平面 Parallel land	MO-公制圓形刀片 MO
 A-45° D-60° E-75° F-85° P-90° Z-其他Other	 A-3° B-5° C-7° D-15° E-20° F-25° G-30° N-0° P-11° Z-Other

切削刃倒棱 Cutting edge condition

F	E	T	S
0-5°	1-10°	2-15°	3-20°
1-0.10	2-0.20	3-0.25	5-0.35
4-25°	6-0.40	7-0.45	

進給方向 Feeding direction



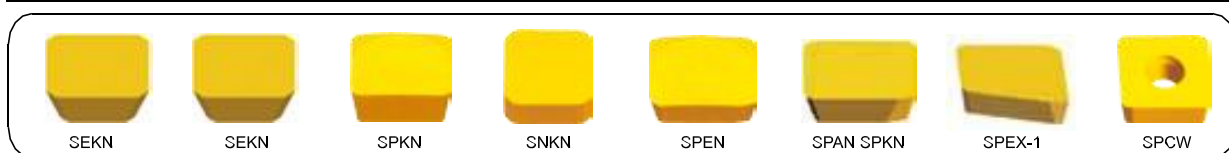
切削刃長度 (mm) Cutting edge length(mm)

	ic inch	C	D	R	S	T	V	W	K
3.97	5/32"					06			
5.0				05					
5.56	7/32"					09			
6.0				06					
6.35	1/4"	06	07			11	11		
8.0				08					
9.525	3/8"	09	11	09	09	16	16	06	16*)
10.0				10					
12.0				12					
12.7	1/2"	12	15	12	12	22	22	08	
15.875	5/8"	16		15	15	27			
16.0				16					
19.05	3/4"	19	19	19	19	33			
20.0				20					
25.0	1"	25	25	25					
25.4				25	25				
31.75				31					
32				32					

-DM 槽型代碼

銑削刀片 *Milling inserts*

■ 面銑刀片 *Inserts for face milling inserts*



■ 方肩臺階銑刀片 *Inserts for shoulder milling*

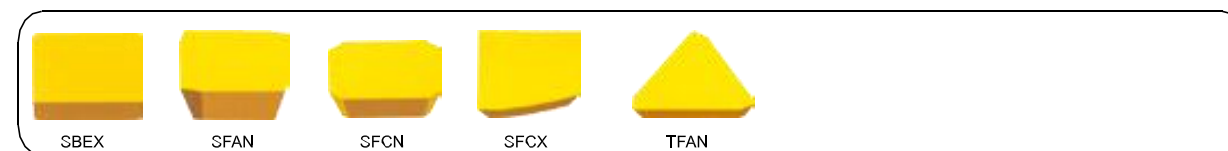


銑削刀片 *Milling inserts*

■ 方形銑刀片 *Inserts for profile milling inserts*

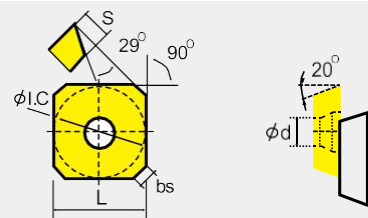


■ 特殊用途銑刀片 *Inserts for special milling inserts*

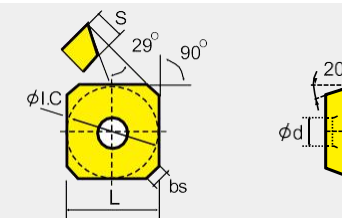




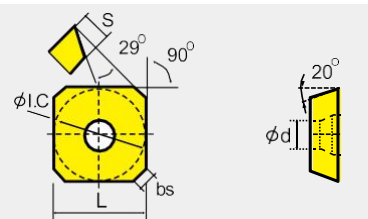
Milling Insert 铣削刀片



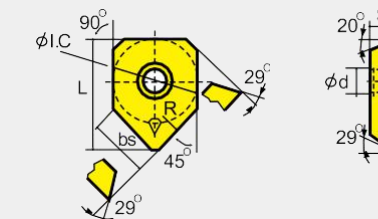
Type 型号	Dimension(mm) 基本尺寸				
	ϕI.C	L	bs	S	ϕd
SEET12T3-CF	13.4	13.4	2.55	3.97	4.1
SEET12T3-DF	13.4	13.4	2.55	3.97	4.1
SEET12T3-EF	13.4	13.4	2.55	3.97	4.1



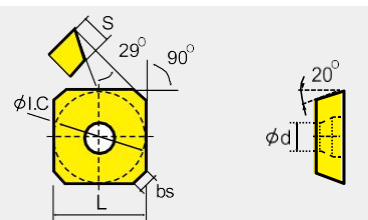
Type 型号	Dimension(mm) 基本尺寸				
	ϕI.C	L	bs	S	ϕd
SEET12T3-LH	13.4	13.4	2.55	3.97	4.1



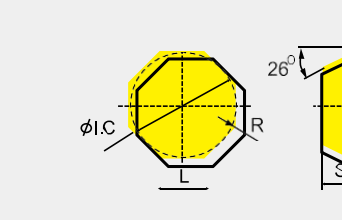
Type 型号	Dimension(mm) 基本尺寸				
	ϕI.C	L	bs	S	ϕd
SEET12T3-CM	13.4	13.4	2.55	3.97	4.1
SEET12T3-DM	13.4	13.4	2.55	3.97	4.1
SEET12T3-EM	13.4	13.4	2.55	3.97	4.1



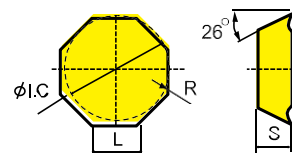
Type 型号	Dimension(mm) 基本尺寸				
	ϕI.C	L	bs	S	ϕd
SEET12T3-W	13.40	17.82	9.46	3.97	4.1



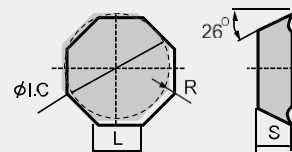
Type 型号	Dimension(mm) 基本尺寸				
	ϕI.C	L	bs	S	ϕd
SEET12T3-CR	13.4	13.4	2.55	3.97	4.1
SEET12T3-DR	13.4	13.4	2.55	3.97	4.1



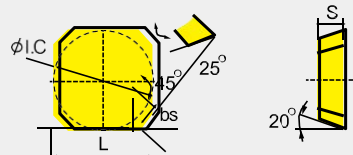
Type 型号	Dimension(mm) 基本尺寸				
	ϕI.C	L	S	R	
OFKR0704-DF	17.94	7.45	4.76	0.8	



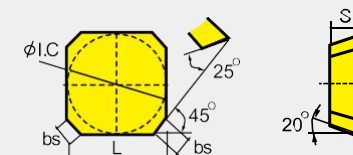
Type 型号	Dimension(mm) 基本尺寸				
	ΦI.C	L	S	R	
OFKR0704-DM	17.94	7.45	4.67	0.8	



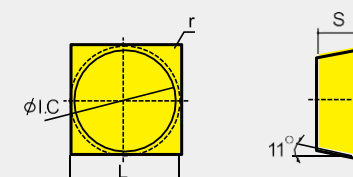
Type 型号	Dimension(mm) 基本尺寸				
	ΦI.C	L	S	R	
OFKR0704-LH	17.94	7.45	4.67	0.8	



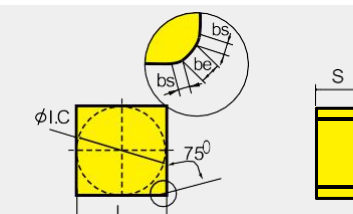
Type 型号	Dimension(mm) 基本尺寸				
	ΦI.C	L	bs	S	
SEKN	1203AFN	2.7	2.7	2.4	3.18
	1203AFTN	12.7	12.7	2.4	3.18
	1204AFN	12.7	12.7	2.4	4.76
	1204AFTN	12.7	12.7	2.4	4.76
	1504AFN	15.875	15.875	2.4	4.76
	1504AFTN	15.875	15.875	2.4	4.76



Type 型号	Dimension(mm) 基本尺寸				
	ΦI.C	L	bs	S	
SEKN	1204AZ	12.7	12.7	2.10	4.76
	1504AZ	15.875	15.875	2.10	4.76

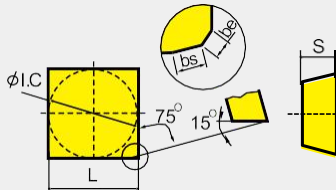


Type 型号	Dimension(mm) 基本尺寸				
	ΦI.C	L	S	r	
SPEN	120308-WC	12.7	12.7	3.18	0.8
	120416-WC	12.7	12.7	4.76	1.6
	150416-WC	15.875	15.875	4.76	1.6



Type 型号		Dimension(mm) 基本尺寸				
		ΦI.C	L	bs	be	s
SNKN	1204ENN	12.7	12.7	1.5	0.9	4.76
	1504ENN	15.875	15.875	1.5	0.9	4.76
	1904ENN	19.05	19.05	1.5	0.9	4.76

Type 型号		Dimension(mm) 基本尺寸				
		ΦI.C	L	bs	be	s
SPEN	1203EDR-WC	12.7	12.7	1.3	1.1	3.18

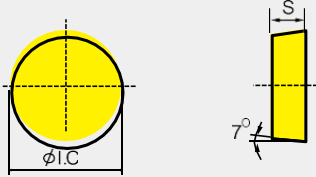



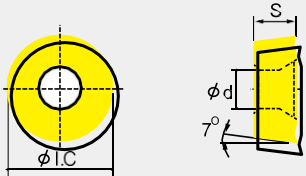
Type 型号		Dimension(mm) 基本尺寸				
		ΦI.C	L	bs	be	s
SPAN	1203EDFL	12.7	12.7	1.4	1	3.18
	1203EDFR	12.7	12.7	1.4	1	3.18
	1203EDL	12.7	12.7	1.4	1	3.18
	1203EDR	12.7	12.7	1.4	1	3.18
	1504EDFR	15.875	15.875	1.4	1	4.76
	1504EDL	15.875	15.875	1.4	1	4.76
	1504EDR	15.875	15.875	1.4	1	4.76
SPKN	1203EDFL	12.7	12.7	1.4	1	3.18
	1203EDFR	12.7	12.7	1.4	1	3.18
	1203EDL	12.7	12.7	1.4	1	3.18
	1203EDR	12.7	12.7	1.4	1	3.18
	1203EDTL	12.7	12.7	1.4	1	3.18
	1203EDTR	12.7	12.7	1.4	1	3.18
	1204EDL	12.7	12.7	1.4	1	4.76
	1204EDR	12.7	12.7	1.4	1	4.76
	1504EDL	15.875	15.875	1.4	1	4.76
	1504EDR	15.875	15.875	1.4	1	4.76
	1504EDTL	15.875	15.875	1.4	1	4.86
	1504EDTR	15.875	15.875	1.4	1	4.76
	1904EDL	19.05	19.05	2.7	1	4.76
1904EDR	19.05	19.05	2.7	1	4.76	

Type 型号		Dimension(mm) 基本尺寸				
		A	I.W	bs	S	R
SPEX	1203EDL-1	15	12.7	10	3.18	500
	1203EDR-1	15	12.7	10	3.18	500
	1504EDL-1	18.2	15.875	10	4.76	500
	1504EDR-1	18.2	15.875	10	4.76	500

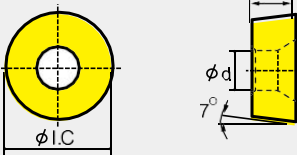
Type 型号		Dimension(mm) 基本尺寸				
		L(ΦI.C)	bs	be	S	Φd
SPCW	1504EPTR	15	12.7	10	3.18	500
	1504EPR	18.2	15.875	10	4.76	500

Type 型号		Dimension(mm) 基本尺寸					
		ΦI.C	L	b	be	S	R
SBAN	1203ZZ	12.7	12.7	1.2	0.7	3.18	2690
	12044ZZ	12.7	12.7	1.2	0.7	4.76	2690

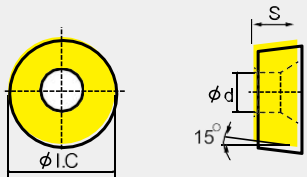
					
Type 型号		Dimension(mm) 基本尺寸			
		ΦI.C	S		
RCEN	1604M0	16	4.76		
	1605M0	16	5.56		
	1606M0	16	6.35		

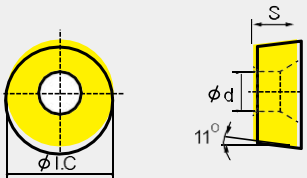
					
Type 型号		Dimension(mm) 基本尺寸			
		ΦI.C	S	Φd	
RCMT	0803M0	8	3.18	3.4	
	1606M0	16	6.35	5.2	
	2507M0	25	7.94	7.7	
RCGT	1906M0	19.05	6.35	6.35	
	1204M0	12.7	4.76	4.2	

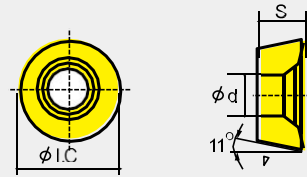


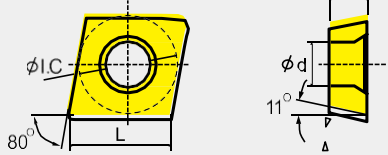


Type 型号	Dimension(mm) 基本尺寸				Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号			金陶 Cemet	
					CVD								PVD						
	$\phi I.C$	S	ϕd		XHC201	XHC301	XHC401	XHM25 ₁	XHM30 ₁	XHM40 ₁	XHG40	XH235	XHM25 ₂		XH30S	XHD201		XHG151	
RPMW1003M0	10	3.18	4.4								○								
RPEW1204M0	12	4.76	4.4								○								

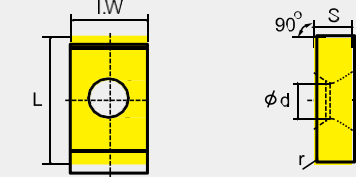
					
Type 型号		Dimension(mm) 基本尺寸			
		ΦI.C	S	Φd	
RDKW	0803M0	8.0	3.18	3.4	
	10T3M0	10.0	3.97	4.4	
	1204M0	12.0	4.76	4.4	
	1605M0	16.0	5.56	5.5	
	2006M0	20.0	6.35	6.5	

					
Type 型号		Dimension(mm) 基本尺寸			
		ΦI.C	S	Φd	
RPHX	10T3M0	10	3.97	4.6	

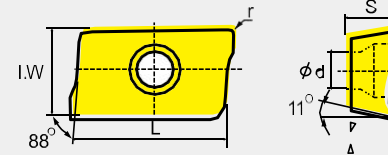
					
Type 型号		Dimension(mm) 基本尺寸			
		ΦI.C	S	Φd	
RPGT	1204M0	12	4.76	5.5	

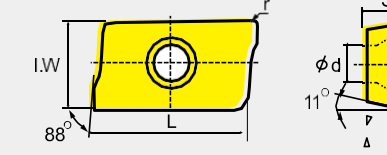
Type 型号		Dimension(mm) 基本尺寸			
		$\phi I.C$	L	S	ϕd
CPCW	1204PDR	12.7	12.9	4.76	5.5

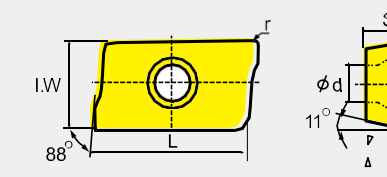
Type 型号		Dimension(mm) 基本尺寸				
		L	I.W	S	ϕd	r
LNE32.534		15.875	9.525	4.76	4.4	1.6

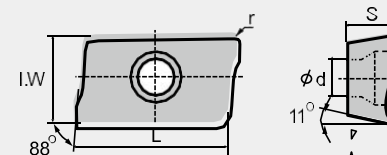
Type 型号		Dimension(mm) 基本尺寸				
		I.W	L	S	ϕd	r
APKT	11T304-PF	6.5	12.24	3.6	2.8	0.4
	160408-PF	9.33	17.877	5.76	4.4	0.8

Type 型号		Dimension(mm) 基本尺寸				
		I.W	L	S	ϕd	r
APKT	11T304-PM	6.5	12.24	3.6	2.8	0.4
	160408-PM	9.33	17.877	5.76	4.4	0.8

Type 型号		Dimension(mm) 基本尺寸				
		I.W	L	S	ϕd	r
APKT	11T304-PR	6.5	12.24	3.6	2.8	0.4
	160408-PR	9.33	17.877	5.76	4.4	0.8

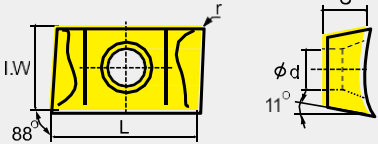



Type 型号		Dimension(mm) 基本尺寸				
		I.W	L	S	ϕd	r
APKT	11T304-LH	6.5	12.24	3.6	2.8	0.4
	160408-LH	9.33	17.877	5.76	4.4	0.8

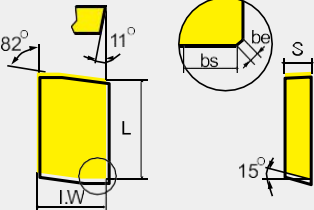


Milling Insert 铣削刀片

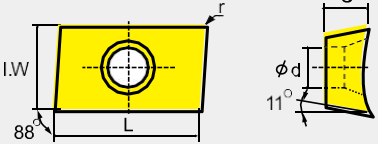




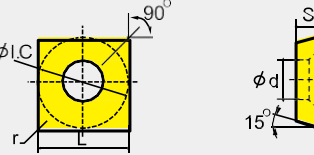
Type 型号		Dimension(mm) 基本尺寸				
		I.W	L	S	ϕd	r
APET	16Q508ER	9.525	16.9	5.28	4.4	0.8



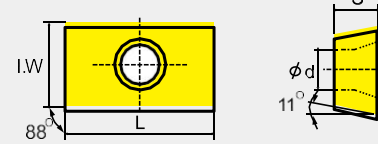
Type 型号		Dimension(mm) 基本尺寸				
		I.W	L	S	bs	be
BPKX	1904PDL	12.7	19.05	4.76	2.6	0.7
	1904PDR	12.7	19.05	4.76	2.6	0.7



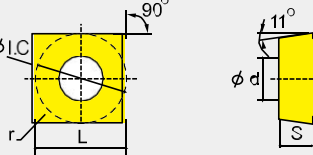
Type 型号		Dimension(mm) 基本尺寸				
		I.W	L	S	ϕd	r
APFT	1604PDR	9.525	16.9	4.76	4.5	0.86



Type 型号		Dimension(mm) 基本尺寸				
		L	ϕI.C	S	ϕd	r
SDNB	080208	8.334	8.334	2.38	3.5	0.8



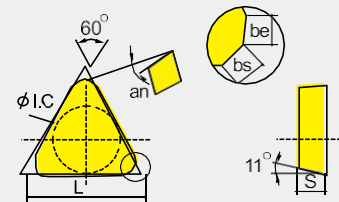
Type 型号		Dimension(mm) 基本尺寸				
		I.W	L	S	ϕd	r
APKT	150412R	12.7	16.23	4.76	5.4	1.2



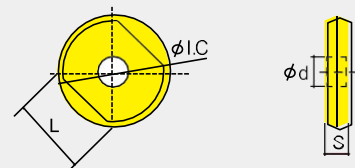
Type 型号		Dimension(mm) 基本尺寸				
		ϕI.C	L	S	ϕd	r
SPMT	060304	6.35	6.35	3.18	2.8	0.4
	120408	12.7	12.7	4.76	5.5	0.8



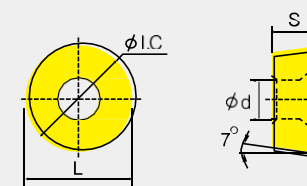
Milling Insert 铣削刀片



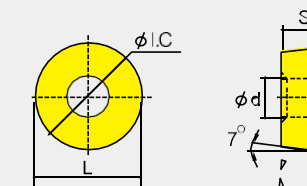
Type 型号		Dimension(mm) 基本尺寸					
		L	$\phi I.C$	bs	be	an	S
TPCN	TPCN1103PP	11	6.35	0.7	0.7	11°	3.18
	TPCN1603PP	16.5	9.525	1.2	1.2	11°	3.18
	TPCN2204PDL	22	12.7	1.4	1.4	15°	4.76
	TPCN2204PDR	22	12.7	1.4	1.4	15°	4.76
	TPCN2204PPL	22	12.7	1.4	1.4	11°	4.76
	TPCN2204PPN	22	12.7	1.4	1.4	11°	4.76
	TPCN2204PPR	22	12.7	1.4	1.4	11°	4.76
TPKN	TPKN1603PDR	16.5	9.525	1.2	1	15°	3.18
	TPKN1603PDL	16.5	9.525	1.2	1	11°	3.18
	TPKN1603PPR	16.5	9.525	1.2	1	11°	3.18
	TPKN2204PDL	22	12.7	1.4	0.7	15°	4.76
	TPKN2204PDR	22	12.7	1.4	0.7	15°	4.76
TPAN	TPAN1103PP	11	6.35	0.7	0.7	11°	3.18
	TPAN1603PP	16.5	9.525	1.2	1.2	11°	3.18
	TPAN2204PDL	22	12.7	1.4	1.4	15°	4.76
	TPAN2204PDR	22	12.7	1.4	1.4	15°	4.76
	TPAN2204PDN	22	12.7	1.4	1.4	15°	4.76



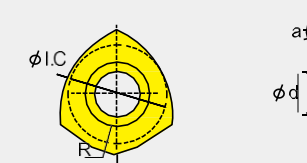
Type 型号		Dimension(mm) 基本尺寸			
		L	$\phi I.C$	S	ϕd
ROHX	1203	8.5	12	3	4
	1604	11.3	16	4	5
	2005	14.1	20	5	5



Type 型号		Dimension(mm) 基本尺寸			
		$\phi I.C$	L	S	ϕd
RCKT	10T3MO-DM	10	10	3.97	4.4
	1204MO-DM	12	12	4.76	4.4
	1606MO-DM	16	16	6.35	5.16
	2006MO-DM	20	20	6.35	6.55



Type 型号		Dimension(mm) 基本尺寸				Coated Grade 涂层牌号										Uncoated Grade 非涂层牌号		金陶 Cemet	
						CVD								PVD					
		ΦI.C	L	S	Φd	XHC201	XHC301	XHC401	XHM25 1	XHM30 1	XHM40 1	XHG40	XH235	XHM25 2		XH30S	XHD201		XHG151
RCKT	1204MO-DR	12	12	4.76	4.4			●					○						
	1604MO-DR	16	16	4.76	5.16			●					○						
	2006MO-DR	20	20	6.35	6.55			●					○						



Type 型号		Dimension(mm) 基本尺寸					
		$\phi I.C$	L	S	R	ϕd	a
ZDET	08T2CYR10	6.75	8.4	2.78	10	2.8	14°
	1103CYR12.5	8.5	10.6	3.18	12.5	2.8	14°
	13T3CYR16	10.5	13.2	3.97	16	4.4	14°
ZPET	2204CYR20	12.7	16.1	4.76	20	5.56	11°
	2204CYR25	12.7	16.9	4.76	25	5.56	11°
	2204CYR31.5	12.7	17.6	4.76	31.5	5.56	11°

Type 型号		Dimension(mm) 基本尺寸			
		$\phi I.C$	L	S	be
SBEX	1203ZZ	12.7	12.7	3.18	0.8
	1204ZZ	12.7	12.7	4.76	0.8
	1203ZZ-1	12.7	12.7	3.18	0.8
	1204ZZ-1	12.7	12.7	4.76	0.8

Type 型号		Dimension(mm) 基本尺寸				
		I.W	b	R	S	L
SFCX	1203EFL-1	12.7	10.5	500	3.18	10.0
	1203EFR-1	12.7	10.5	500	3.18	10.0

Type 型号		Dimension(mm) 基本尺寸			
		$\phi I.C$	L	be	S
SFAN	1203EFL	12.7	12.7	2.5	3.18
	1204EFR	12.7	12.7	2.5	3.18

Type 型号		Dimension(mm) 基本尺寸				
		L	$\phi I.C$	bs	be	S
TFAN	2203PFL	22	12.7	2.5	0.7	3.18
	2203PFR	22	12.7	2.5	0.7	3.18

Type 型号		Dimension(mm) 基本尺寸			
		I.C	L	be	S
SFCN	1203AFFN	12.7	12.7	2.5	3.18

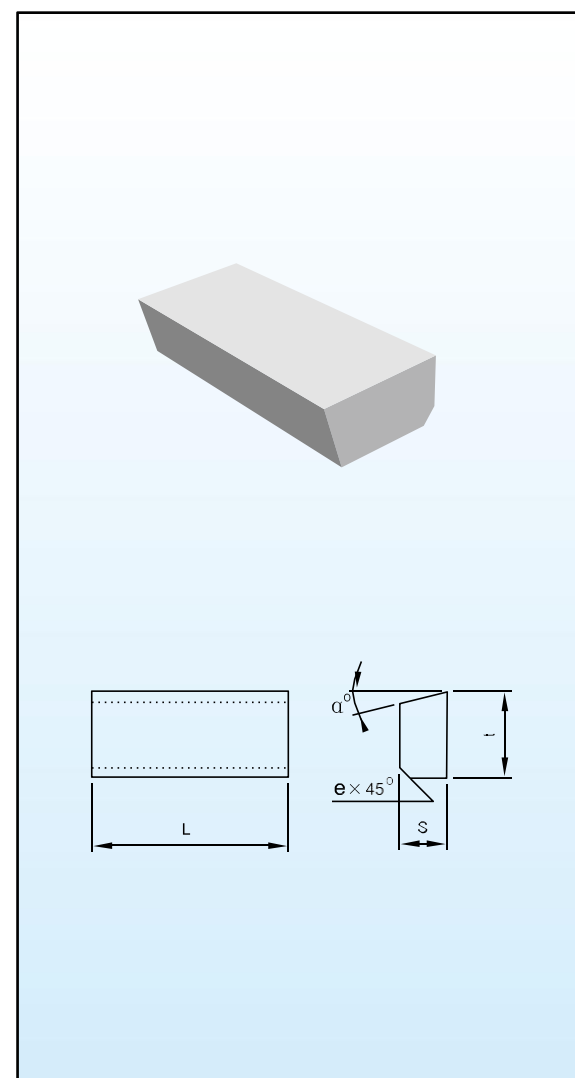
L t S 允许偏差

Tolerances of L,t and S

基本尺寸 Dimension	允许偏差 Tolerances	E1、E2 型的 L 尺寸允许偏差 Tolerances of L for Types E1 and E2	
		上偏差 Tolerances Plus	下偏差 Tolerances Minus
≤ 6	±0.2	+0.3	-0.1
< 6~12	±0.3	+0.4	-0.2
> 12~25	±0.4	+0.6	-0.3
> 25~40	±0.6	+0.8	-0.4
> 40	±0.7	+1.0	-0.4

A1 型外圆车刀、镗刀和切槽刀

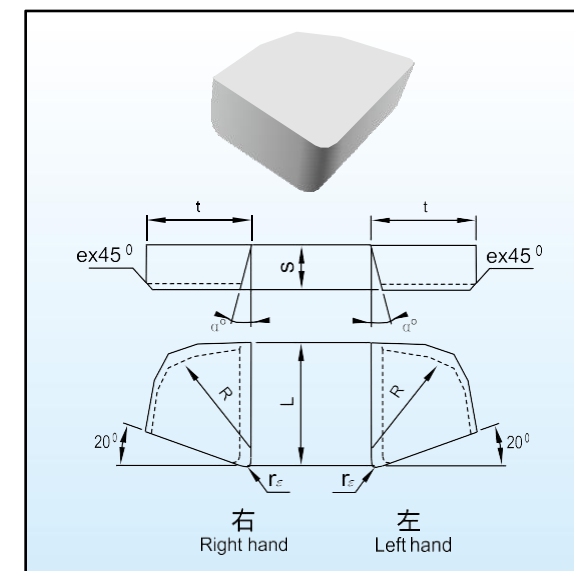
Type A1 For making periphery turning tools, boring tools and grooving tools.



型号 Type	尺寸 Dimension(mm)				
	L	t	S	e	α °
A106	6	5	2.5		0
A108	8	7	3.0		0
A110	10	6	3.5	0.8	14
A112	12	10	4.0	0.8	14
A114	14	12	4.5	0.8	14
A116	16	10	5.5	0.8	14
A118	18	12	7.0	0.8	14
A118A	18	16	6.0	0.8	14
A120	20	12	7.0	0.8	14
A122	22	15	8.5	0.8	14
A122A	22	18	7.0	0.8	14
A125	25	15	8.5	0.8	14
A125A	25	20	10.0	0.8	14
A130	30	16	10.0	0.8	14
A136	36	20	10.0	0.8	14
A140	40	18	10.5	1.2	14
A150	50	20	10.5	1.2	14
A160	60	22	10.5	1.2	14
A170	70	25	12	1.2	14

A2 型镗刀和端面车刀

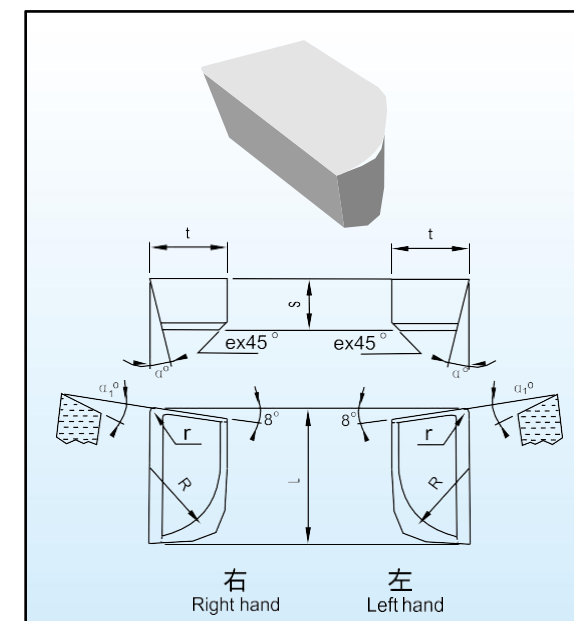
Type A2 For making boring tools and end turning tools.



型号 Type	尺寸 Dimension(mm)							
	R.H.	L.H.	L	t	S	R	r _e	e α °
A208	—		8	7	2.5	7	0.5	0
A210	—		10	8	3.0	8	1.0	0
A212Z			12	10	4.5	10	1.0	0.8 14
A212	A216Z		16	14	6.0	14	1.0	0.8 14
A216	A220Z		20	18	7.0	18	1.0	0.8 14
A220	A225Z		25	20	8.0	20	1.0	0.8 14
A225								

A3 型端面车刀和外圆车刀

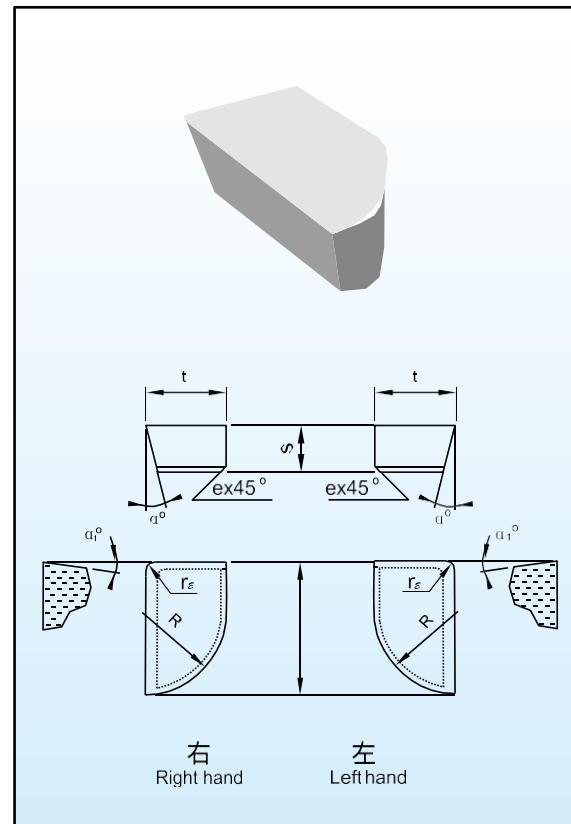
Type A3 For making end and periphery turning tools.



型号 Type	尺寸 Dimension(mm)								
	R.H.	L.H.	L	t	S	R	r _e	e α °	α °
A310	—		10	6	3	6	1	0	0
A312	A312Z		12	7	4	7	1	0.8 14	5
A315	A315Z		15	9	6	9	1	0.8 14	5
A320	A320Z		20	11	7	11	1	0.8 14	5
A325	A325Z		25	14	8	14	1	0.8 14	5
A330	A330Z		30	16	9.5	16	1	0.8 14	5
A340	A340Z		40	18	10.5	18	1	1.2 14	5

A4 型外车刀、镗刀和端面车刀

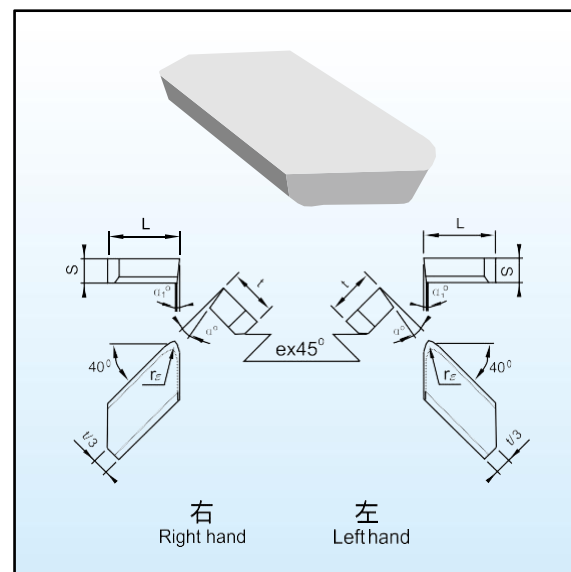
Type A4 For making periphery turning tools, boring tools and end turning tools.



型号 Type		尺寸 Dimension(mm)							
R.H.	L.H.	L	t	S	R	r_e	e	α°	β°
A406	—	6	5	2.5	5	0.5		0	0
A408	—	8	6	3	6	0.5		0	0
A410	A410Z	10	6	3.5	6	1		14	8
A412	A412Z	12	8	4.5	8	1	0.8	14	8
A416	A416Z	16	10	5.5	10	1	0.8	14	8
A420	A420Z	20	12	7	12.5	1	0.8	14	8
A425	A425Z	25	15	8.5	16	1	0.8	14	8
A430	A430Z	30	16	6	16	1	0.8	14	8
A430A	A430AZ	30	16	9.5	16	1	0.8	14	8
A440	A440Z	40	18	8	18	1	0.8	14	8
A440A	A440AZ	40	18	10.5	18	1	1.2	14	8
A450	A450Z	50	20	8	20	1.5	0.8	14	8
A450	A450Z	50	20	12	20	1.5	1.2	14	8

B1 型成型车刀、燕尾槽刨刀和燕尾槽铣刀

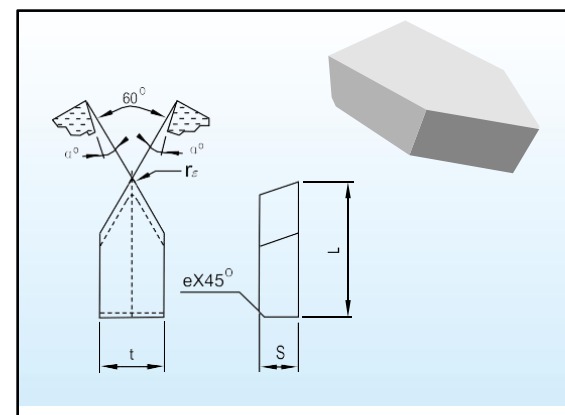
Type B1 making forming tools, planing and milling tools for machining dove tail grooves.



型号 Type		尺寸 Dimension(mm)						
R.H.	L.H.	L	t	S	r _e	e	α °	α °
B108	—	8	6	3	1.5		0	0
B112	B112Z	12	8	4	1.5	1	10	5
B116	B116Z	16	10	5	1.5	1	10	5
B120	B120Z	20	14	5	1.5	1	10	5
B120A	B120AZ	20	16	7	1.5	1.5	10	5
B125	B125Z	25	14	5	1.5	1.5	10	5
B125A	B125AZ	25	18	8	1.5	1.5	10	5
B130	B130Z	30	20	8	1.5	1.5	10	5

C1 型螺纹车刀及外圆精车刀

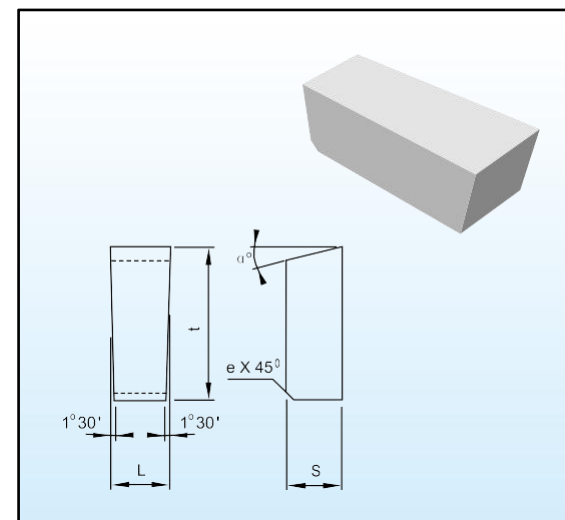
Type C1 making threading turning tools & turning tools for the finishing of peripheries.



型号 Type	尺寸 Dimension(mm)					
	L	t	S	r_e	e	α°
C110	10	4	3	0.5		
C116	16	6	4	0.5	0.8	10
C120	20	8	5	0.5	0.8	10
C122	22	10	6	0.5	0.8	10
C125	25	12	7	0.8	0.8	10

C3 型切断刀和切槽刀

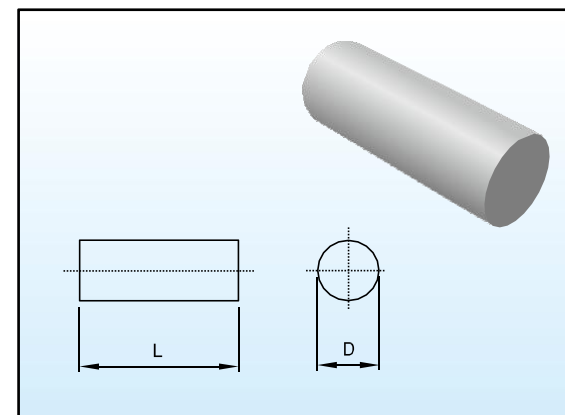
Type C3 For making parting tools and grooving tools.



型号 Type	尺寸 Dimension(mm)				
	L	t	S	e	α°
C303	3.5	12	3		
C304	4.5	14	4	0.8	14
C305	5.5	17	5	0.8	14
C306	6.5	17	6	0.8	14
C308	8.5	20	7	0.8	14
C310	10.5	22	8	0.8	14
C312	12.5	22	10	0.8	14
C316	16.5	25	11	1.2	14

F3 可卸镗刀及耐磨零件

Type F3 For making dismountable boring tools and wear parts.



型号 Type	尺寸 Dimension(mm)	
	D	L
F303	3.5	10
F304	4.5	12
F305	5.5	15
F306	6.5	18
F307	7.5	20
F308	8.5	22



	ISO Code 代号	JAT 捷特	ZCCCT 钻石	MITSUBISHI 三菱	Korloy 可乐伊	TaeguTec 特固克	SUMITOMO 住友工业	TUNGALOY 泰珂洛	KYOCERA 京瓷	HITACHI 日立工具	SANDVIK 山特维克
CVD Turning 车削	P10	JT5320 JT5220 JT5450	YBC151 YBC152	UE6105 MC6015 UE6110 MY5015	NC3215	TT8105 TT8115	AC8015P AC810P	T9205 T9105 T9215 T9115	CA510 CA515 CA5505 CA5515	HG8010 HG8010	GC4305 C4315 GC4325
	P20	JT5350 JT5250 JT5450	YBC251 YBC252	MC6015 UE6110 MC6025 UE6020 MY5015	NC3225 NC3120	TT5100 TT8125	AC8025P AC820P	T9215 T9115 T9225 T9125	CA025P CA525 CA5515 CA5525 CR9025	HG8025 IP2000 GM25	GC4315 GC4325 GC4225 GC1515
	P30	JT5340 JT5250 JT5240	YBC252 YBC351 YBC352	MC6025 UE6020 MC6035 UE6035 UH6400	NC3030	TT8125 T5100	AC8035P AC830P AC6030M AC630M	T9225 T9125 T9235 T9135 T6130	CA025P CA525 CA5515 CA5525 CR9025	IP3000 GM8035	GC4315 GC4325 GC4335 GC2025
	P40	JT5340	YBC351 YBC352	MC6035 UE6035 UH6400	NC5330	TT8135 TT7100	AC8035P AC830P AC6030M AC630M		CA530 CA5535CA	GM8035 GX30	GC4325 GC4335
	M10	JT1320 JT1420		MC7015 US7020	NC9115	TT9215	AC6020M AC610M	T9235 T9135 T6130	CA6515	IP1050S	GC2015 GC1515
	M20	JT1350 JT1550	YBM151 YBM153	MC7015 US7020 M7025	NC9115 NC9125	TT9225	AC6020M AC6030M AC610M AC630M	T9215 T9115	CA6525	IP1050S	GC2015 GC2025 GC2020
	M30	JT1340	YBM151 YBM251	MC7025 US735	NC9125 NC9135	TT9235	AC6030M AC630M AC8035P AC830P	T6120 T9215 T9115		IP100S GX30	GC2025 GC2020



	ISO Code 代号	JAT 捷特	ZCCCT 钻石	MITSUBISHI 三菱	Korloy 可乐伊	TaeguTec 特固克	SUMITOMO 住友工业	TUNGALOY 泰珂洛	KYOCERA 京瓷	HITACHI 日立工具	SANDVIK 山特维克
CVD Turning 车削	M40		YB253	US735	NC7135	TT9235	AC6030M AC630M	T6120 T9215 T9115		IP100S GX30	
	K01	JT4230	YBD052	MC5005 UC5105	NC6310	TT7005	AC4010K AC405K	T6130	CA310 CA4010 CA4505 CA5505	IIP100S GX30	GC3210
	K10	JT4220D JT4520	YBD102	MC5015 UC5115 MY5015	NC6310 NC6315	TT7015	AC4010K AC4015K AC405K AC415K	T5105	CA310 CA315 CA4010 CA4115 CA4505 CA4515 CA5505	HX3505	GC3210
	K20	JT4220D JT4520	YBD152 YBD252	MC5015 UC5115 UE6110 MY5115	NC6315	TT7015 TT7025	AC4015K AC415K AC420K AC425K AC8025P	T5105 T515 T5115 T9215	CA315 CA320 CA4115 CA4120 CA4515	HX3505 HX3515 HG8010	GC3210 GC3225
	K30	JT4250		UE6110				T5125	CA320	HG8010	GC3225

Grade comparison
牌号对照表



	ISO Code 代号	JAT 捷特	ZCCCT 钻石	MITSUBISHI 三菱	Korloy 可乐伊	TaeguTec 特固克	SUMITOMO 住友工业	TUNGALOY 泰珂洛	KYOCERA 京瓷	HITACHI 日立工具	SANDVIK 山特维克
CVD Milling 铣削	P10					TT7515	ACP2000 ACP100				GC4220 GC4230 GC3040
	P20		YBC301 YBC251	F7030 MC7020	NC5330	TT7515	ACP2000 ACP100	T3225			GC4220 GC4230 GC3040
	P30	JT1350 JT1550	YBC351	F7030 MC7020	NC5330 NC5340 NCM325	TT7800		T3130 T3225			GC4230 GC3040 GC2040 M30B
	M40	JT1340	YBC302		NC5340 NC325 NCM325 NC5350 NCM335	TT7800	ACM200				GC4240 GC4230 GC3040 GC2040 M30B
	M20	JT1350	YBM251 YBM253	F7030 MC7020	NC5330		ACM200	T3225	CA6536	GX2160 AX2040	GC2040 GC4230
	M30	JT1340	YBM302	F7030 MC7020	NC5330 NC5340 NCM325 NC5350	TT7800		T3225 T3130			GC2040 GC4230 GC4240 M30B
	M40				NCM335 NC5350	TT7800	ACK2000 ACK100 ACK200				GC2040 M30B S40T GC4240
	K10	JT4320 JT4220	YBD151	MC5020		TT7515	ACK200	T1215 T1115			
	K20	JT4220	YBD252	MC5020	NC5330	TT7515	ACK200	T1215	CA420M	GX2120	GC3220 K20W
	K30	JT4250	YBD252		NC5340						



	ISO Code 代号	JAT 捷特	ZCCCT 钻石	MITSUBISHI 三菱	Korloy 可乐伊	TaeguTec 特固克	SUMITOMO 住友工业	TUNGALOY 泰珂洛	KYOCERA 京瓷	HITACHI 日立工具	SANDVIK 山特维克
PVD Turning 车削	P10	JA2235	YBG102	VP10MF MS6015	PC8105		AC1030U ACZ150 AC5025S AC520U	AH710	PC930 PR1005 PR1025 PR1115 PR1215 PR1425 PR1225		GC1025 GC1125
	P20	JA2530 A2530H	YBG202	VP10RT VP20RT VP15TF VP20MF	PC8110 PC230	TT9020 TT9030	AC1030U AC5025S AC520U AC530U	AH120 AH725 AH730 SH725 SH730 J740	PR930 PR1025 PR1115 PR1215 PR1225 PR1625	IP2000	GC1025 GC1125
	P30	JA2435	YBG202	VP10RT VP20RT VP15TF VP20M	PC5300 PC8115	TT8020 TT8080 TT9030	AC1030U AC530U	AH120 AH725 AH7025 AH730 SH725 SH730 GH730 GH330 J740	PR10125 PR1225 PR1535	IP3000 CY250	GC1025 GC1125
	P40					TT8020 TT8080 TT9080	AC1030U	AH120 AH725 AH645		IP3000	GC1025
	M10	JA2235 JA2530 JA2535	YBG202 YBG205	VP10MF MS6015	PC8105 PC8110	TT5080	AC515S AC5025S AC510U AC520U ACZ150	AH8005 AH630	PR1025 PR1215 PR1225	IP050S IP100S JP9105 JP9115	GC1115 GC1125

Grade comparison
牌号对照表



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PVD Turning 车削	M20	JA2520 JA2420 JA2050	YBG202 YBG205	VP10RT VP20RT VP15TF VP20MF	PC8110 PC5300	TT5080 TT9080	AC5015S AC5025S AC1030U AC530U	AH8015 AH630 AH120 AH7025 AH725 SH725 SH730	PR930 PR1025 PR1125 PR1215 PR1425 PR1225 PR1515	IP100S HS9115	GC1115 GC1125 GC2035
	M30	JA2530H JA2520 JA2435		VP10RT VP20RT VP15TF VP20MF MP7035	PC9030 PC5300 PC5400	TT8020 TT8080 TT9020 TT9080	AC5025S AC6040M AC1030U AC520U AC530U	AH645 AH120 AH725 SH725 SH730 J740	PR1125 PR1535		GC1125 GC2035
	M40			MP7035	PC5400	TT8020 TT8080 TT9020 TT9080	AC6040M AC1030U AC530U			GX30	GC2035
	K10	JA2235					AC1030U AC510U ACZ150		PR905 PR1215	HX3305 HG335 HX3515 HG8010 TH315 ATH10E	GC3330 GC3220 K20W K20D K20M K15W
	K20	JA2535		VP10RT VP20RT VP15TF	PC5300		AC1030U AC510U AC530U ACZ150		PR905 PR1215		GC3040 K20W GC4230 K20M
	K30			VP10RT VP20RT VP15TF			AC1030U AC530U				K20W GC4240 GC4230



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PVD Millin g 铣削	P10		YBG252		PC2005P C2010 PC2015		ACP2500 ACP200	AH120 AH725	PR830 PR1025 PR1225	PCA12M PN15M PN215 JP4115	GC1010 GC1025 GC1030
	P20	JA2530 JA2430 JA5535	YBG202 YBG205 YBG932 0 YBG252	MP6120 VP15TF	PC2505 PC2510		ACP3000 ACU2500 ACP200 ACP300	AH120 AH725 AH3135 AH9030 AH3225 AH9130	PR1525 PR830 PR1025 PR1225 PR1230	CY150 CY9020 JP4120	GC1025 GC1030 GC2030
	P30	JA2343 JA2243 JA2520 JA2435 JA2420 JA2450	YBG302	MP6120 VP15TF MP6130 VP30RT	PC3600 PC3500 PC210F PC5300		ACP3000 ACU2500 ACP200 ACP300	AH120 AH725 AH3135 AH130 AH3225 AH9130	PR1230 PR1535	HC844 CY25 CY250 CY259V JS4045	GC1030 GC1010 GC2030
	P40		YBG302	VP30RT	PC5400	TT8020 TT8080 TT9030 TT9080	ACP3000 ACU2500 ACP300	AH140		PTH30E PTH40H JS4060 GX2140	GC1030 GC2030
	M10		YBG252		PC210F		ACU2500 ACM100 ACK300 ACP300	AH725	PR1025 PR1225	PN15M PN215	GC1010 GC1030



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PVD Milling 铣削	M20	JA2535 JA2520 JA2530H	YBG202 YBG205 YBG932 0 YBG252	VP15TF MP7130 MP7030 VP20RT	PC5300	TT9030 TT9080	ACU2500 ACK300 ACP300	AH725 AH3135 AH130 AH6030 AH3225 AH9130	PR1525 PR1025 PR1225	JP4120	GC1030 GC1040 GC2030 S30T
	M30	JA2435	YBG302	VP15TF MP7130 MP7030 VP20RT MP7140	PC9530 PC5400	TT8020 TT8080 TT9030 TT9080	ACM300	AH3135 AH130 AH9130	PR1535	HC844 CY250 JS4045	GC1040 S30T GC2030
	M40		YBG302	MP7140 VP30RT	PC5400	TT8020 TT8080 TT9030 TT9080	ACM300	AH140		PTH30E PH40H JM4160 GX2160 AX2040	
	K10	JA2235	YBG102 YBG252	MP8010	PC8110 PC6510	TT6080	ACK3000 ACU2500	AH110 AH120	PR510 PR905 PR1210	ATJ10E TH315 CY100H	GC1010 GC1020
	K20	JA2535 JA5525	YBG152	VP15TF VP20RT	PC5300	TT6080	ACK3000 ACU2500 ACK300	AH120 AH9030 AH9130	PR905 PR1210	CY9020 CY150 PTH13S JP4120 GX2120	GC1020
	K30	JA2530 JA2530H		VP15TF VP20RT			ACK3000 ACU2500 ACK300	AH120		CY250 JS4045 GX2040	



We good at supplied on your request
specification of the Nonstandard inserts.
我们擅长根据您的要求非标定制刀片。

