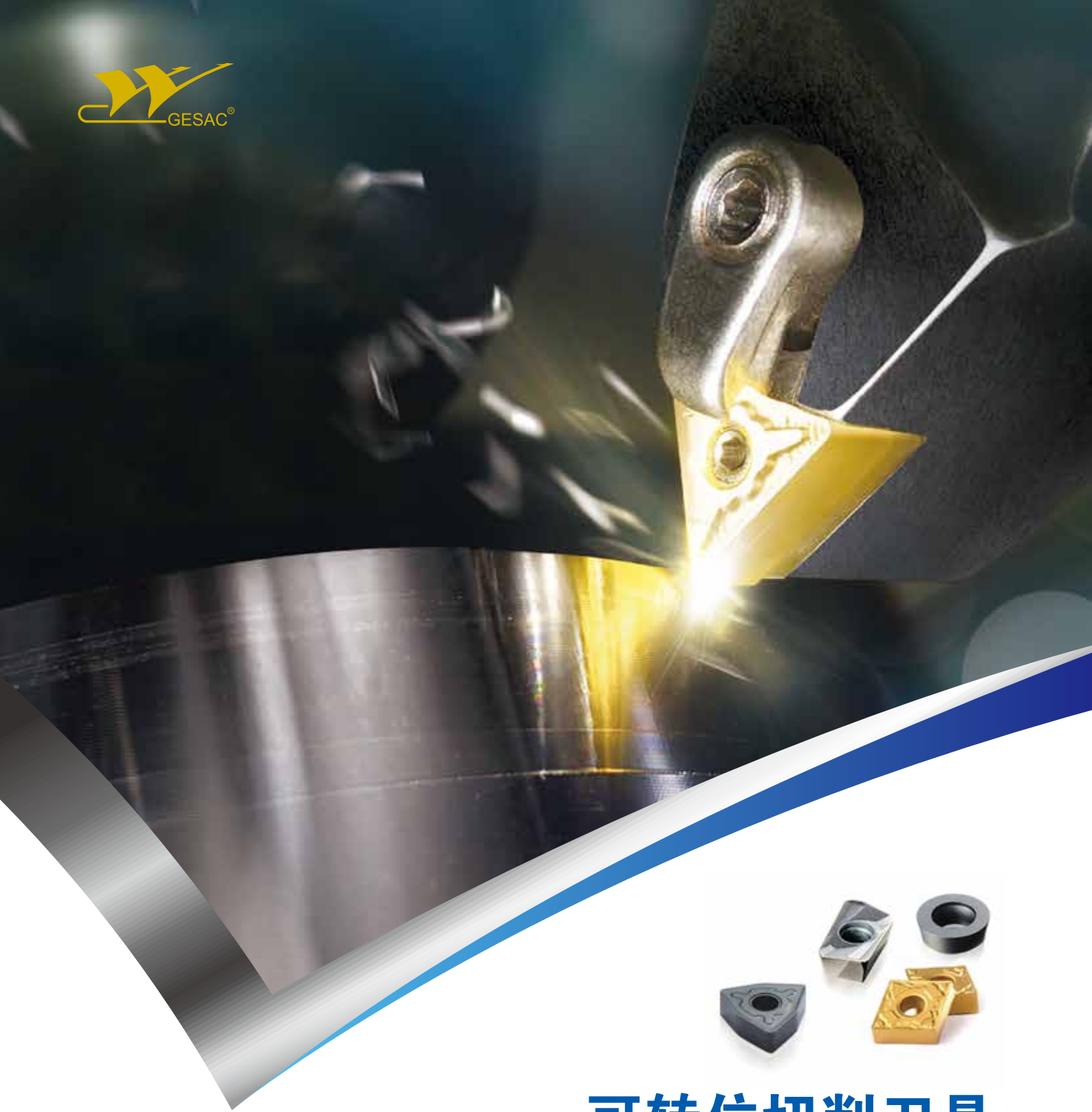


可转位切削刀具

Indexable Cutting Tools

公司简介

About GESAC

厦门金鹭特种合金有限公司，成立于 1989 年，是一家国家级高新技术企业，是国有上市公司厦门钨业的核心成员。主要从事钨粉、碳化钨粉、硬质合金、切削刀具等钨系列产品的生产和销售；是世界最大的钨粉、碳化钨粉供应商和出口商；是高品质硬质合金及其精密切削工具的制造商。

公司拥有一支自强不息的、高素质员工团队，拥有国际一流的工艺技术、生产设备和检测仪器；其生产的“金鹭”牌系列产品以优良的品质和完善的服务，享誉国内外；客户遍布全球四十多个工业发达国家和地区。

公司建立了国家级技术中心，独立承担并完成了多项“国家科技攻关计划”项目、“国家火炬计划”项目、“国家重点新产品”开发项目及省市重点研究课题，被评为“国家重点高新技术企业”、“先进技术企业”、“出口型企业”。

公司坚持以诚信为本的理念，致力于不断创新、发展成为“设备一流”、“技术一流”、“管理一流”、“质量一流”、“服务一流”的现代化企业。

Xiamen Golden Egret Special Alloy Co., Ltd (GESAC) was founded in 1989, and is one of the core subsidiary corporations of the listed state-own Xiamen Tungsten Group. GESAC specializes in the manufacture and sale of various types of tungsten powder, cemented carbide and cemented carbide cutting tools. Today, GESAC is the world largest producer as well as exporter of tungsten powder and tungsten carbide powder. GESAC is also among the world's largest manufacturers of premium cemented carbide rod and blank, along with advanced performance cutting tools.

GESAC continually pursues excellence with through the creative talents of employees, advanced research technologies, best in class manufacturing equipment and quality testing facilities. Driven by quality products and superior service, the “Golden Egret” brand has become a market leader, with GESAC products used worldwide in more than 40 countries.

The company established a national level Research and Development Center in 2008. GESAC's reputation for innovation and technology has gained it the responsibility for numerous national and provincial research projects, and awards such as “National Standard High-Tech Enterprise”, “Enterprise with Advanced Technology” and “Export-Oriented Enterprise”.

GESAC has steadily evolved with the core values of sincerity and dependability. With a determination to become an enterprise with first class equipment, technologies, management, quality and service, the company is driven to innovation, technology and world class products.





● 金鹭工厂分布 Plants of GESAC

产业链
INDUSTRIAL CHAIN



金鹭具有从矿石开采到钨粉末，硬质合金制品及精密切削刀具的完整的钨产业链。

GESAC has the unique distinction of complete control “in-house” of the Tungsten Industrial Supply Chain – from ore mining to the tungsten powder, to cemented carbide, to the final precision cutting tools.





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TURNING INSERTS

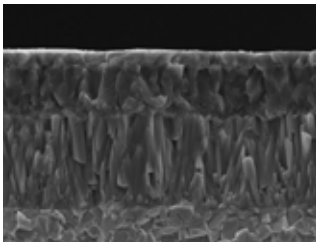
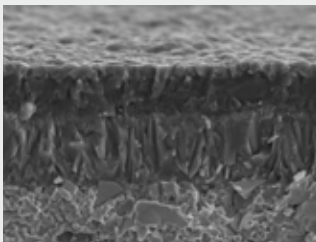
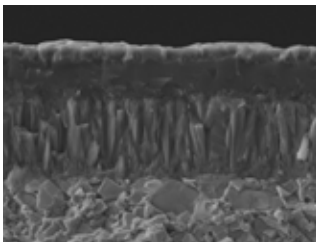
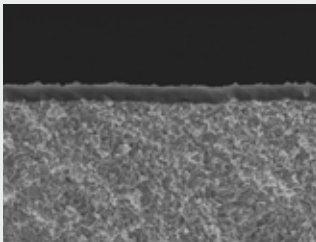
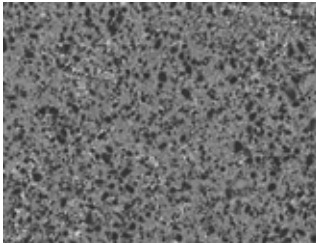
车削刀片

车削刀片牌号简介

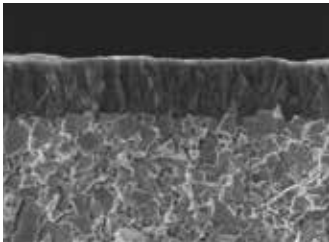
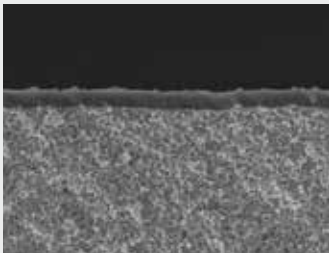
Turning Insert Grades

(一) 加工P类材料牌号

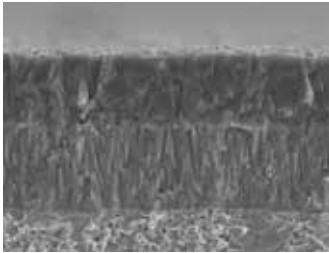
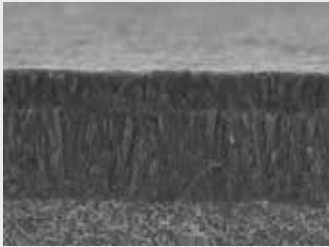
Grades for P Applications

牌号 Grade	加工类型 Cutting Range	涂层构成 Coating	特点 Advantages
GP1115	精、半精加工 Finishing and Semi-finishing		超精细MT-TiCN, Al ₂ O ₃ 和表面光滑的TiN涂层结构与良好耐磨性的梯度硬质合金基体结合, 具有良好的抗磨损性能, 适合于钢、合金钢的精、半精加工。 - Super fine MT-TiCN, Al₂O₃ and TiN coating on carbide substrate, smooth surface and superior wear resistance. - Application: Suitable for the cutting of steel and alloy steel in continuous conditions.
GP1225	半精、轻微粗加工 Semi-finishing to Light Roughing		超精细MT-TiCN, Al ₂ O ₃ 和表面光滑的TiN涂层结构与良好韧性的表面梯度合金基体结合, 在具有良好抗磨损性能的同时, 韧性大大提高, 适合于一般工况下钢、合金钢的半精到轻微粗加工。 - Super fine MT-TiCN, Al₂O₃ and TiN coating on graded carbide substrate, smooth surface and superior wear resistance and improved toughness. - Application: Suitable for the cutting of steel and alloy steel in light interrupted conditions.
GP1135	粗加工 Roughing		精细MT-TiCN、Al ₂ O ₃ 与表面光滑的TiN涂层结构与良好抗崩刃性的表面梯度合金基体相结合, 适合于不稳定状态下, 钢、合金钢的粗加工。 - Super fine MT-TiCN, Al₂O₃ and TiN coating on graded carbide substrate, smooth surface and superior fracture resistance. - Application: Suitable for cutting of steel and alloy steel under interrupted conditions.
GP3125	半精加工 Semi-finishing		细晶粒的硬质合金基体与纳米结构的TiAlN涂层结合, 耐热性好, 适用于通用材料的加工, 主推低合金钢。 - Nano-structure TiAlN coating on micro-grain carbide substrate with a higher heat resistance. - Application: Suitable for general purpose cutting of various types of workpiece material.
GP91TF	精、半精加工 Finishing and semi-finishing		无涂层金属陶瓷车削牌号, 高耐磨性及韧性兼备, 推荐用于钢、合金钢、铸铁的精到半精加工。 - Cermet grade with High wear resistance and good roughness. - Application: For turning of steel, cast iron and stainless steel in continuous conditions.

(二) 加工M-S类材料牌号
Grades for M-S Applications

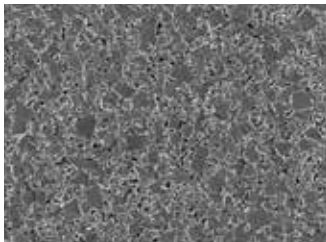
牌号 Grade	加工类型 Cutting Range	涂层构成 Coating	特点 Advantages
GM1125	半精加工 Semi-finishing		良好韧性的硬质合金基体和TiCN、TiN涂层相结合，耐磨性优异，特殊表面处理技术有效降低切削阻力并抑制积屑瘤的产生，能够延长刀具寿命，适合于不锈钢的精加工及半精加工。 • TiCN and TiN coating on good toughness carbide substrate, with good wear resistance, superior adhesion resistance and longer tool life. • Application: Suitable for stainlesssteel cutting in continuous and light interrupted conditions.
GM3125	半精、轻微粗加工 Semi-finishing and Roughing		纳米结构TiAlN涂层与细晶粒的耐磨硬质合金基体相结合，优异的抗积屑瘤特性和抗崩刃性，适合于不锈钢的半精到粗加工。 • TiAlN coating on super micro-graincarbide substrate with superior resistance to thermal shock、mechanical shock and good wear resistance. • Application: Suitable for stainless steel cuttinginlight interrupted conditions.

(三) 加工K类材料牌号
Grades for K Applications

牌号 Grade	加工类型 Cutting Range	涂层构成 Coating	特点 Advantages
GK1115	精、半精加工 Finishing and Semi-finishing		高耐磨性细晶粒基体与MT-TiCN+厚的Al₂O₃涂层相结合，经过特殊的涂层后处理技术，表面光滑，在加工球墨铸铁和灰铸铁时，表现出良好的耐磨性和抗崩刃性。 • MT-TiCN and thick Al₂O₃ coated on micro-grain carbide substrate, superior wear resistance. Special post-processingwith smooth coating and shows superior wear resistance and fracture resistance. • Application: Suitable for nodular iron and gray iron in continuous and light interrupted conditions.
GK1125	半精、粗加工 Semi-finishing and Roughing		韧性细晶粒基体与厚的MT-TiCN+ Al₂O₃涂层相结合，在保证刀片良好耐磨性的同时，大幅提高韧性，推荐用于韧性要求高的恶劣工况。 • Thick MT-TiCN+Al₂O₃ coated on toughness micro-grain carbide substrate,keeping superior wear resistance and greatly improved toughness. • Application:Suitable for bad machining conditions which require high toughness.

(四) 加工N类材料牌号

Grades for N Applications

牌号 Grade	加工类型 Cutting Range	涂层构成 Coating	特点 Advantages
GN9125	半精、粗加工 Semi-finishing and Roughing		无涂层细晶粒硬质合金牌号，良好的耐磨性能与韧性兼备，适合于铜、铝合金等有色金属的精、半精加工。 • Micro-grain carbide substrate with high hardness and superior wear resistance. • Application: Suitable for cutting of copper and aluminum alloys in light interrupted conditions.

车削牌号应用一览表
Application Summary of Turning Grades

工件材质 Workpiece	ISO	涂层硬质合金 Coated		硬质合金 Uncoated	金属陶瓷 Cermet
		CVD	PVD		
P 钢 Steel	01				GP91TF
	10	GP1115			GP91TF
	20	GP1125			
	30	GP1225	GP3125		
	40	GP1135			
	50				
M 不锈钢 Stainless Steel	01				GP91TF
	10		GM3115		GP91TF
	20	GM1125	GM3125		
	30				
	40				
	50				
K 铸铁 Cast Iron	01				GP91TF
	10	GK1115			GP91TF
	20	GK1125			
	30				
	40				
	50				
N 有色金属 Nonferrous Metal	01			GN9115	
	10				
	20			GN9125	
	30			GN9135	
	40				
	50				
S 耐热合金、钛合金 Heat-resistant Alloy and Titanium Alloy	01				
	10				
	20				
	30				
	40				
	50				
H 高硬度材料 High Hardness Material	01				
	10				
	20				
	30				

车削刀片加工工况汇总

Summary for the Working Conditions of Turning Inserts

工件材质 Workpiece	槽型 Geometry	加工工况 Working conditions		
				
		稳定切削 Continuous	一般切削 Light Interrupted	不稳定切削 Interrupted
	GF	GP1115/GP91TF	GP1115/GP1225	
	QF	GP1115/GP91TF	GP1115/GP1225	
	GM	GP1115/GP91TF	GP1115/GP1225	GP1225
	QM	GP1115	GP1115/GP1225	GP1225
	SV		GP1115/GP1225	GP1225
	GP	GP1115/GP91TF	GP1115/GP1225/GP3125	GP1225/GP3125
	SM	GM1125	GM3115/GM3125	GM3125
	GP	GM1125	GM3125	GM3125
	UK	GK1115	GK1115/GK1125	GK1125
	HK	GK1115	GK1115/GK1125	GK1125
	无	GK1115	GK1115/GK1125	GK1125
	GP	GK1115	GK1125	
	AL	GN9115	GN9125/GN9135	GN9125/GN9135

ISO车削刀片型号表示规则

ISO Turning Indexable Inserts Identification System

代号 Symbol	形状 Shape	刀尖角 (度) Corner Angle	图形 Figure	代号 Symbol	后角 (度) Relief Angle	代号 Symbol	公差 Tolerance (mm)			公差 Tolerance (inch)		
							刀尖高 Corner Height(m)	厚度 Thickness(s)	内切圆 I.C.Size(Ød)	刀尖高 Corner Height(m)	厚度 Thickness(s)	内切圆 I.C.Size(Ød)
H	正六边形 Hexagon	120°		A	3°	A	± 0.005	± 0.025	± 0.025	± 0.0002	± 0.001	± 0.001
O	正八边形 Octagon	135°		B	5°	F	± 0.005	± 0.025	± 0.013	± 0.0002	± 0.001	± 0.0005
P	正五边形 Pentagon	108°		C	7°	C	± 0.013	± 0.025	± 0.025	± 0.0005	± 0.001	± 0.001
S	正方形 Square	90°		D	15°	H	± 0.013	± 0.025	± 0.013	± 0.0005	± 0.001	± 0.0005
T	正三角形 Triangle	60°		E	20°	E	± 0.025	± 0.025	± 0.025	± 0.001	± 0.001	± 0.001
C	菱形 Rhombic	80°		F	25°	G	± 0.025	± 0.13	± 0.025	± 0.001	± 0.005	± 0.001
D		55°		G	30°	N	± 0.025	± 0.13	± 0.025	± 0.001	± 0.005	± 0.001
E		75°		N	0°	P	± 0.005	± 0.025	± 0.05~ ± 0.13	± 0.0002	± 0.001	± 0.002~ ± 0.005
F		50°		P	11°	K	± 0.013	± 0.025	± 0.05~ ± 0.13	± 0.0005	± 0.001	± 0.002~ ± 0.005
M		86°		O	其他 Others	L	± 0.025	± 0.025	± 0.05~ ± 0.13	± 0.001	± 0.001	± 0.002~ ± 0.005
V	35°											
W	六边形 Trigon	80°										
L	长方形 Rectangle	90°										
A	平行四边形 Parallelogram	85°										
B		82°										
K		55°										
R	圆形 Round	—										
①形状代号 Shape Symbol				②后角代号 Relief Angle Symbol		③精度代号 Tolerance Symbol						

①	②	③	④	⑤
T	N	M	G	22
T	N	M	G	22
①	②	③	④	⑤

④ 断屑槽 · 孔代号 Chipbreaker / Hole Symbol				
代号 Symbol	有无孔 Hole	孔的形状 Hole Shape	断屑槽 Chipbreaker	形状 Shape
N	无 Without	—	无 Without	
R			单面 Single-sided	
F			双面 Double-sided	
A	有 With	圆柱孔 With Hole	无 Without	
M			单面 Single-sided	
G			双面 Double-sided	
W		部分圆柱孔单面 With hole and one countersink 40° ~ 60°	无 Without	
T			单面 Single-sided	
Q			无 Without	
U		部分圆柱孔双面 With hole and two countersinks 40° ~ 60°	无 Without	
B			单面 Single-sided	
H			无 Without	
C		部分圆柱孔双面 With hole and two countersinks 70° ~ 90°	无 Without	
J			双面 Double-sided	
X	—	—	—	—

⑤ ISO切削刃长度代号 Cutting Edge Length Symbol (ISO) (mm)														
代号 Symbol	尺寸 Length	代号 Symbol	尺寸 Length	代号 Symbol	尺寸 Length	代号 Symbol	尺寸 Length	代号 Symbol	尺寸 Length	代号 Symbol	尺寸 Length	代号 Symbol	尺寸 Length	内切圆 I.C.Size (mm)
		03	3.97	03	4.0			06	6.9	4	4.8			3.97
		04	4.76	04	4.8			08	8.2	5	5.8			4.76
05	5	—	—	—	—	—	—	—	—	—	—	—	—	5
		05	5.56	05	5.6	03	3.8	09	9.6	6	6.8			5.56
06	6	—	—	—	—	—	—	—	—	—	—	—	—	6
		06	6.35	06	6.5	04	4.3	11	7	7.8	11	11.2		6.35
		07	7.94	08	8.1	05	5.4	13	13.8	9	9.7			7.94
08	8	—	—	—	—	—	—	—	—	—	—	—	—	8
09	9.525	09	9.525	09	9.7	06	6.5	16	16.5	11	11.6	16	16.6	9.525
10	10	—	—	—	—	—	—	—	—	—	—	—	—	10
12	12	—	—	—	—	—	—	—	—	—	—	—	—	12
12	12.7	12	12.7	12	12.9	08	8.7	22	22	15	15.5	22	22.1	12.7
15	15.875	15	15.875	16	16.1	10	10.9	27	27.5	19	19.4			15.875
16	16	—	—	—	—	—	—	—	—	—	—	—	—	16
19	19.05	19	19.05	19	19.3	13	13	33	33	23	23.3			19.05
20	20	—	—	—	—	—	—	—	—	—	—	—	—	20
		22	22.225	22	22.6			38	38.5	27	27.1			22.225
25	25	—	—	—	—	—	—	—	—	—	—	—	—	25
25	25.4	25	25.4	25	25.8			44	44	31	31			25.4
31	31.75	31	31.75	32	32.2			55	55	38	38.8			31.75
31	32	—	—	—	—	—	—	—	—	—	—	—	—	32

适用刀片形状: H,O,P,S,T,C,E,M,W,R Insert Shape: H,O,P,S,T,C,E,M,W,R									
标准 内切圆 I.C.Size (mm)	内切圆(d)的公差 Tolerance of I.C.Size(d)(mm)		刀尖高(m)的公差 Tolerance of Corner Height(m)(mm)		标准 内切圆 I.C.Size (inch)	内切圆(d)的公差 Tolerance of I.C.Size(d)(mm)		刀尖高(m)的公差 Tolerance of Corner Height(m)(mm)	
	J,K,L, M,N(级)	U (级)	M,N(级)	U (级)		Class J,K, L,M,N	Class U	Class J,K, L,M,N	Class U
6.35	± 0.05	± 0.08	± 0.08	± 0.13	0.250	± 0.002	± 0.003	± 0.003	± 0.005
9.525					0.375				
12.7	± 0.08	± 0.13	± 0.13	± 0.2	0.500	± 0.003	± 0.005	± 0.005	± 0.008
15.875	± 0.1	± 0.18	± 0.15	± 0.27	0.625	± 0.004	± 0.007	± 0.006	± 0.011
19.05					0.750				
25.4	± 0.13	± 0.25	± 0.18	± 0.38	1.000	± 0.005	± 0.010	± 0.007	± 0.015
31.75	± 0.15	± 0.25	± 0.2	± 0.38	1.250	± 0.006	± 0.010	± 0.008	± 0.015
32					1.260				

适用刀片形状: D Insert Shape: D					
内切圆Ød Inscribed Circle Size		内切圆的公差 Tolerance of I.C.Size		刀尖高的公差 Tolerance of Corner Height	
mm	in	mm	in	mm	in
6.35	0.250	± 0.05	± 0.002	± 0.11	± 0.004
9.525	0.375	± 0.05	± 0.002	± 0.11	± 0.004
12.7	0.500	± 0.08	± 0.003	± 0.15	± 0.006
15.875	0.625	± 0.10	± 0.004	± 0.18	± 0.007
19.05	0.750	± 0.10	± 0.004	± 0.18	± 0.007

适用刀片形状: V Insert Shape: V					
内切圆Ød Inscribed Circle Size		内切圆的公差 Tolerance of I.C.Size		刀尖高的公差 Tolerance of Corner Height	
mm	in	mm	in	mm	in
6.35	0.250	± 0.05	± 0.002	± 0.15	± 0.006
9.525	0.375	± 0.05	± 0.002	± 0.15	± 0.006
12.7	0.500	± 0.08	± 0.003	± 0.20	± 0.008
15.875	0.625	± 0.10	± 0.004	± 0.27	± 0.011
19.05	0.750	± 0.10	± 0.004	± 0.27	± 0.011

代号 Symbol	厚度 Thickness(mm)
01	1.59
02	2.38
T2	2.78
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52
⑥厚度代号 Thickness Symbol	

⑥

04

04

⑥

⑦

08

08

⑦

⑧

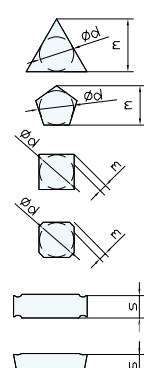
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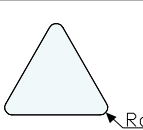
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⑧

GM

GM

内切圆 Inscribed Circle Size(Ød)
厚度 Thickness(s)
刀尖高 Corner Height(m)


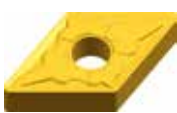
⑦刀尖代号 Corner Symbol	
	
代号 Symbol	刀尖圆弧半径 Corner-Rc(mm)
00	0.03
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
28	2.8
32	3.2

⑧断屑槽型代号 Chipbreaker Symbol
表示刀片加工切削特点和断屑槽型 Indicates the cutting properties and chipbreaker

车削刀片一览表
Features of Turning Inserts

车削刀片（负型）
Turning Inserts (Negative)

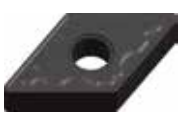
槽型 Geometry	特点 Features	
GF	GF槽型普通钢、合金钢精加工用 双面断屑槽 刀尖锋利和切削刃强劲 小切深时切屑处理性能良好 GF for finishing of general steel and alloy steel. Double-sided chip breaker. Sharp tool nose and strong cutting edge. Good chip control under small cutting depth.	
QF	QF槽型普通钢、合金钢精加工用 双面断屑槽 变前角设计，满足不同切深的切削刃锋利性和强度要求 曲线形切削刃设计，刀刃锋利，加工表面光洁度高，切屑控制稳定 QF for finishing of general steel and alloy steel. Double-sided chip breaker. Variable range angle provides enough edge strength at different depth of cut. Curved edge,sharp cutting edge, good chip control and fine surface finish due to curved edge.	
GM	GM槽型普通钢、合金钢半精加工用 双面断屑槽 扁平棱边刃形，切削刃强度高 GM for semi-finishing of general steel and alloy steel. Double-sided chip breaker. Strong flat cutting edge.	
QM	QM槽型普通钢、合金钢半精加工用 大槽宽、大槽深设计，增大了容屑槽，使排屑顺畅，减小排屑阻力 变刃宽设计，保证刀尖锋利的同时提高强度 阶梯与波浪式凸台设计，拓宽了断屑范围 QM for semi-finishing of general steel and alloy steel. Smooth chip discharge due to wide chip pocket. Good balance of sharpness and strength due to Variable land. Gradient and waved hump wide applicable geometry range.	
SV	SV槽型普通钢、合金钢半精加工用 开口式槽，容屑空间大可实现不稳定切削 锋利刃宽设计，加工表面质量高 切屑深度范围宽，可实现大切深加工 SV for semi-finishing of general steel and alloy steel. Throughout groove and wide chip groove make cutting available in unstable working conditions. Long chip groove allows high depth of cuts.	

	80° 菱形 80° Rhombic	55° 菱形 55° Rhombic	90° 正方形 90° Square	60° 正三角形 60° Triangle	35° 菱形35° Rhombic	80° 六边形 80° Trigon
						
	CNMG-GF	DNMG-GF	SNMG-GF	TNMG-GF	VNMG-GF	WNMG-GF
	Page22	Page25	Page27	Page30	Page33	Page34
						
	CNMG-QF	DNMG-QF	SNMG-QF	TNMG-QF	VNMG-QF	WNMG-QF
	Page22	Page25	Page27	Page30	Page33	Page34
						
	CNMG-GM	DNMG-GM	SNMG-GM	TNMG-GM	VNMG-GM	WNMG-GM
	Page22	Page25	Page27	Page30	Page33	Page34
						
	CNMG-QM	DNMG-QM	SNMG-QM	TNMG-QM	VNMG-QM	WNMG-QM
	Page22	Page25	Page27	Page31	Page33	Page34
						
	CNMG R-SV	DNMG R-SV	SNMG R-SV	TNMG R-SV		
	Page23	Page26	Page28	Page31		

车削刀片一览表
Features of Turning Inserts

车削刀片（负型）
Turning Inserts (Negative)

槽型 Geometry	特点 Features	
SM	SM槽型不锈钢、软钢中切削用 双面断屑槽 切削刃锋利度高 SM for medium cutting of stainless steel and mild steel. Double-sided chip breaker. Sharp cutting edge.	
UK	UK槽型铸铁加工用 双面断屑槽 切削刃口强度高，恶劣切削条件下加工表现优越 UK for machining cast iron. Double-sided chip breaker. Medium cutting edge for unfavorable cutting conditions.	
HK	HK槽型铸铁、重载切削用 双面断屑槽 切削刃口强度高，大容屑槽，适合大余量，重载切削 HK for cast iron cutting and heavy cutting. Double-sided chip breaker. Strong cutting edge and wide land for improved performance.	
无 None	无断屑槽 平板刀片 刀尖强度高、刀片落位稳定，最适于断续切削等不稳定切削 Without chip breaker. Flat-top. Stable placement. Strong edge design for intermittent cutting conditions.	

	80° 菱形 80° Rhombic	55° 菱形 55° Rhombic	90° 正方形 90° Square	60° 正三角形 60° Triangle	35° 菱形 35° Rhombic	80° 六边形 80° Trigon
						
	CNMG-SM	DNMG-SM	SNMG-SM	TNMG-SM	VNMG-SM	WNMG-SM
	Page23	Page26	Page28	Page31	Page33	Page35
						
	CNMG-UK	DNMG-UK	SNMG-UK	TNMG-UK	VNMG-UK	WNMG-UK
	Page23	Page26	Page28	Page31	Page33	Page35
						
	CNMG-HK	DNMG-HK	SNMG-HK	TNMG-HK	VNMG-HK	WNMG-HK
	Page24	Page26	Page28	Page32	Page33	Page35
						
	CNMA	DNMA	SNMA	TNMA		WNMA
	Page24	Page26	Page29	Page32		Page35

车削刀片一览表
Features of Turning Inserts

车削刀片（正型）
Turning Inserts (Positive)

槽型 Geometry	特点 Features	
GP (5° 后角) (5° clearance angle)	GP槽型普通钢、合金钢、不锈钢、铸铁轻切削用 扁平棱边与双前角组合，同时确保刀尖强度与切削锋利度 半岛形断屑槽，1mm以下的切屑也能稳妥控制切屑 GP for light cutting of general steel, alloy steel, stainless steel and cast iron. Strong tool nose due to flat cutting edge and sharp cutting edge due to double rake angle. Steady chip control when the depth of cut is less than 1mm due to Peninsula-shaped chip breaker.	
GP (7° 后角) (7° clearance angle)	GP槽型普通钢、合金钢、不锈钢、铸铁轻切削用 扁平棱边与双前角组合，同时确保刀尖强度与切削锋利度 半岛形断屑槽，1mm以下的切屑也能稳妥控制切屑 GP for light cutting of general steel, alloy steel, stainless steel and cast iron. Strong tool nose due to flat cutting edge and sharp cutting edge due to double rake angle. Steady chip control when the depth of cut is less than 1mm due to Peninsula-shaped chip breaker.	
GP (11° 后角) (11° clearance angle)	GP槽型普通钢、合金钢、不锈钢、铸铁轻切削用 扁平棱边与双前角组合，同时确保刀尖强度与切削锋利度 半岛形断屑槽，1mm以下的切屑也能稳妥控制切屑11° 后角，刀尖更锋利 GP for light cutting of general steel, alloy steel, stainless steel and cast iron. Strong tool nose due to flat cutting edge and sharp cutting edge due to double rake angle. Steady chip control when the depth of cut is less than 1mm due to peninsula-shaped chip breaker. Sharp tool nose due to 11° clearance angle.	

铝材车削刀片
Turning Inserts for Aluminum Materials

槽型 Geometry	特点 Features	
AL	AL槽型铝合金切削用 大前角，刀尖锋利度高 AL for aluminum alloy cutting. Sharp tool nose due to large rake angle.	

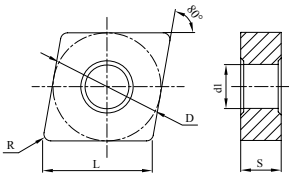
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					VBMT-GP	
					Page42	
						
	CCMT-GP CCGT-GP	DCMT-GP DCGT-GP	SCMT-GP	TCMT-GP TCGT-GP	VCMT-GP VCGT-GP	WCMT-GP
	Page36	Page38	Page39	Page40	Page42	Page43
						
	CPMT-GP CPGT-GP			TPGT-GP		
	Page37			Page41		

	80° 菱形 80° Rhombic	55° 菱形 55° Rhombic	90° 正方形 90° Square	60° 正三角形 60° Triangle	35° 菱形35° Rhombic	80° 六边形 80° Trigon
						
	CCGX-AL	DCGX-AL	SCGX-AL	TCGX-AL	VCGX-AL	
	Page44	Page44	Page45	Page46	Page47	

车削刀片(负型)
Turning Inserts (Negative)

CNMG

菱形80° 有孔
Rhombic80°,with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	CNMG090308-GF	9.7	9.525	3.18	3.81	0.8	●	○	●											
	CNMG120404-GF	12.9	12.7	4.76	5.16	0.4	●	○	●											●
	CNMG120408-GF	12.9	12.7	4.76	5.16	0.8	●	○	●											●
	CNMG120412-GF	12.9	12.7	4.76	5.16	1.2	●	○	●											
	CNMG090304-QF	9.7	9.525	3.18	3.81	0.4	●		●											
	CNMG090308-QF	9.7	9.525	3.18	3.81	0.8	●		●											
	CNMG120404-QF	12.9	12.7	4.76	5.16	0.4	●		●											
	CNMG120408-QF	12.9	12.7	4.76	5.16	0.8	●		●											
	CNMG090308-GM	9.7	9.525	3.18	3.81	0.8	○	●	●											●
	CNMG120404-GM	12.9	12.7	4.76	5.16	0.4	○	●	●											●
	CNMG120408-GM	12.9	12.7	4.76	5.16	0.8	○	●	●											●
	CNMG120412-GM	12.9	12.7	4.76	5.16	1.2	○	●	●											●
	CNMG120416-GM	12.9	12.7	4.76	5.16	1.6	○	●	●											
	CNMG160608-GM	16.1	15.875	6.35	6.35	0.8	○	●	●											
	CNMG160616-GM	16.1	15.875	6.35	6.35	1.6	○	●	●											
	CNMG190608-GM	19.3	19.05	6.35	7.94	0.8	○	●	●											
	CNMG190612-GM	19.3	19.05	6.35	7.94	1.2	○	●	●											
	CNMG190616-GM	19.3	19.05	6.35	7.94	1.6	○	●	●											
	CNMG090304-QM	9.7	9.525	3.18	3.81	0.4	●		●											
	CNMG090308-QM	9.7	9.525	3.18	3.81	0.8	●		●											
	CNMG120404-QM	12.9	12.7	4.76	5.16	0.4	●		●											
	CNMG120408-QM	12.9	12.7	4.76	5.16	0.8	●	○	●			●								
	CNMG120412-QM	12.9	12.7	4.76	5.16	1.2	●	○	●			●								
	CNMG120416-QM	12.9	12.7	4.76	5.16	1.6	●		●											
	CNMG160608-QM	16.1	15.875	6.35	6.35	0.8	●		●											
	CNMG160612-QM	16.1	15.875	6.35	6.35	1.2	●		●											
	CNMG190608-QM	19.3	19.05	6.35	7.94	0.8	●		●											
	CNMG190612-QM	19.3	19.05	6.35	7.94	1.2	●		●											
	CNMG190616-QM	19.3	19.05	6.35	7.94	1.6	●		●											

●标准库存 Stock ○需预定 Available upon Order

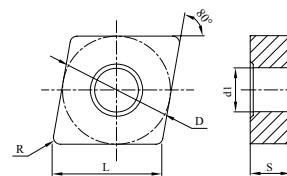
车削刀片(负型)

Turning Inserts (Negative)

CNMG

菱形80° 有孔

Rhombic80°,with Hole

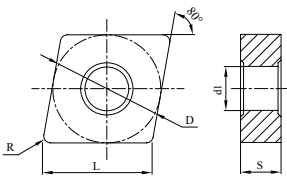


订货号 Ordering Code	尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
	L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	CNMG120408R-SV	12.9	12.7	4.76	5.16	0.8	○	●											
	CNMG120408L-SV	12.9	12.7	4.76	5.16	0.8	○	●											
	CNMG090304-SM	9.7	9.525	3.18	3.81	0.4					●		●						
	CNMG09T304-SM	9.7	9.525	3.97	3.81	0.4					●		●						
	CNMG090308-SM	9.7	9.525	3.18	3.81	0.8					●	●	●						
	CNMG09T308-SM	9.7	9.525	3.97	3.81	0.8					●		●						
	CNMG120404-SM	12.9	12.7	4.76	5.16	0.4					●	●	●						
	CNMG120408-SM	12.9	12.7	4.76	5.16	0.8					●	●	●						
	CNMG120412-SM	12.9	12.7	4.76	5.16	1.2					●	●	●						
	CNMG120416-SM	12.9	12.7	4.76	5.16	1.6					●		●						
	CNMG160608-SM	16.1	15.875	6.35	6.35	0.8					●	●	●						
	CNMG160612-SM	16.1	15.875	6.35	6.35	1.2					●	●	●						
	CNMG160616-SM	16.1	15.875	6.35	6.35	1.6					●		●						
	CNMG190608-SM	19.3	19.05	7.94	6.35	0.8					●		●						
	CNMG190612-SM	19.3	19.05	7.94	6.35	1.2					●		●						
	CNMG190616-SM	19.3	19.05	7.94	6.35	1.6					●		●						
	CNMG120404-UK	12.9	12.7	4.76	5.16	0.4								●	●				
	CNMG120408-UK	12.9	12.7	4.76	5.16	0.8								●	●				
	CNMG120412-UK	12.9	12.7	4.76	5.16	1.2								●	●				
	CNMG120416-UK	12.9	12.7	4.76	5.16	1.6								●	●				
	CNMG160608-UK	16.1	15.875	6.35	6.35	0.8								●	●				
	CNMG160612-UK	16.1	15.875	6.35	6.35	1.2								●	●				
	CNMG160616-UK	16.1	15.875	6.35	6.35	1.6								●	●				
	CNMG190612-UK	19.3	19.05	6.35	7.94	1.2								●	●				
	CNMG190616-UK	19.3	19.05	6.35	7.94	1.6								●	●				

●标准库存 Stock ○需预定 Available upon Order

车削刀片(负型)
Turning Inserts (Negative)

CNMG
菱形80° 有孔
Rhombic80°,with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	CNMG120408-HK	12.9	12.7	4.76	5.16	0.8	●		●						●	●				
	CNMG120412-HK	12.9	12.7	4.76	5.16	1.2	●		●						●	●				
	CNMG120416-HK	12.9	12.7	4.76	5.16	1.6									●	●				
	CNMG160612-HK	16.1	15.875	6.35	6.35	1.2	●		●						●	●				
	CNMG160616-HK	16.1	15.875	6.35	6.35	1.6	●		●						●	●				
	CNMG190612-HK	19.3	19.05	6.35	7.94	1.2	●		●						●	●				
	CNMG190616-HK	19.3	19.05	6.35	7.94	1.6	●		●						●	●				
	CNMA120404	12.9	12.7	4.76	5.16	0.4									●	●				
	CNMA120408	12.9	12.7	4.76	5.16	0.8									●	●				
	CNMA120412	12.9	12.7	4.76	5.16	1.2									●	●				
	CNMA120416	12.9	12.7	4.76	5.16	1.6									●	●				
	CNMA160612	16.1	15.875	6.35	6.35	1.2									●	●				
	CNMA160616	16.1	15.875	6.35	6.35	1.6									●	●				
	CNMA160620	16.1	15.875	6.35	6.35	2.0									●	●				
	CNMA190612	19.3	19.05	6.35	7.94	1.2									●	●				
	CNMA190616	19.3	19.05	6.35	7.94	1.6									●	●				
	CNMA190624	19.3	19.05	6.35	7.94	2.4									●	●				

●标准库存 Stock ○需预定 Available upon Order

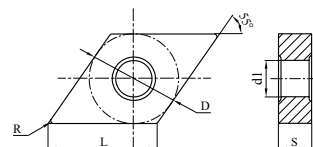
车削刀片(负型)

Turning Inserts (Negative)

DNMG

菱形55° 有孔

Rhombic 55°, with Hole



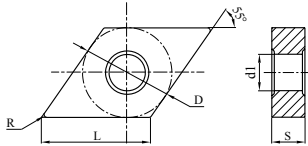
订货号 Ordering Code	尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
	L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	DNMG110404-GF	11.6	9.525	4.76	3.81	0.4	●	○	●										●
	DNMG110408-GF	11.6	9.525	4.76	3.81	0.8	●	○	●										
	DNMG150404-GF	15.5	12.7	4.76	5.16	0.4	●	○	●										
	DNMG150408-GF	15.5	12.7	4.76	5.16	0.8	●	○	●										
	DNMG150604-GF	15.5	12.7	6.35	5.16	0.4	●	○	●										
	DNMG150608-GF	15.5	12.7	6.35	5.16	0.8	●	○	●										
	DNMG110404-QF	11.6	9.525	4.76	3.81	0.4	●		●										
	DNMG110408-QF	11.6	9.525	4.76	3.81	0.8	●		●										
	DNMG150404-QF	15.5	12.7	4.76	5.16	0.4	●		●										
	DNMG150408-QF	15.5	12.7	4.76	5.16	0.8	●		●										
	DNMG150604-QF	15.5	12.7	6.35	5.16	0.4	●		●										
	DNMG150608-QF	15.5	12.7	6.35	5.16	0.8	●		●										
	DNMG110404-GM	11.6	9.525	4.76	3.81	0.4	○	●	●										●
	DNMG110408-GM	11.6	9.525	4.76	3.81	0.8	○	●	●										●
	DNMG110412-GM	11.6	9.525	4.76	3.81	1.2	○	●	●										●
	DNMG150404-GM	15.5	12.7	4.76	5.16	0.4	○	●	●										●
	DNMG150408-GM	15.5	12.7	4.76	5.16	0.8	○	●	●										
	DNMG150412-GM	15.5	12.7	4.76	5.16	1.2	○	●	●										●
	DNMG150604-GM	15.5	12.7	6.35	5.16	0.4	○	●	●										
	DNMG150608-GM	15.5	12.7	6.35	5.16	0.8	○	●	●										
	DNMG150612-GM	15.5	12.7	6.35	5.16	1.2	○	●	●										
	DNMG150616-GM	15.5	12.7	6.35	5.16	1.6	○	●	●										
	DNMG110404-QM	11.6	9.525	4.76	3.81	0.4	●		●										
	DNMG110408-QM	11.6	9.525	4.76	3.81	0.8	●		●										
	DNMG110412-QM	11.6	9.525	4.76	3.81	1.2	●		●										
	DNMG150404-QM	15.5	12.7	4.76	5.16	0.4	●		●										
	DNMG150408-QM	15.5	12.7	4.76	5.16	0.8	●		●										
	DNMG150412-QM	15.5	12.7	4.76	5.16	1.2	●		●										
	DNMG150604-QM	15.5	12.7	6.35	5.16	0.4	●		●		●								
	DNMG150608-QM	15.5	12.7	6.35	5.16	0.8	●		●		●								
	DNMG150612-QM	15.5	12.7	6.35	5.16	1.2	●		●										

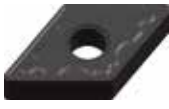
●标准库存 Stock ○需预定 Available upon Order

车削刀片(负型)
Turning Inserts (Negative)

DNMG

菱形55° 有孔
Rhombic 55°, with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	NEW DNMG150604R-SV	15.5	12.7	6.35	5.16	0.4	○		●											
	DNMG150604L-SV	15.5	12.7	6.35	5.16	0.4	○		●											
	DNMG150608R-SV	15.5	12.7	6.35	5.16	0.8	○		●											
	DNMG150608L-SV	15.5	12.7	6.35	5.16	0.8	○		●											
	DNMG110404-SM	11.6	9.525	4.76	3.81	0.4						●		●						
	DNMG110408-SM	11.6	9.525	4.76	3.81	0.8						●	●	●						
	NEW DNMG110412-SM	11.6	9.525	4.76	3.81	1.2						●		●						
	DNMG150404-SM	15.5	12.7	4.76	5.16	0.4						●	●	●						
	DNMG150408-SM	15.5	12.7	4.76	5.16	0.8						●	●	●						
	DNMG150412-SM	15.5	12.7	4.76	5.16	1.2						●		●						
	DNMG150604-SM	15.5	12.7	6.35	5.16	0.4						●	●	●						
	DNMG150608-SM	15.5	12.7	6.35	5.16	0.8						●	●	●						
	DNMG150612-SM	15.5	12.7	6.35	5.16	1.2						●		●						
	DNMG150404-UK	15.5	12.7	4.76	5.16	0.4									●	●				
	DNMG150408-UK	15.5	12.7	4.76	5.16	0.8									●	●				
	DNMG150412-UK	15.5	12.7	4.76	5.16	1.2									●	●				
	DNMG150604-UK	15.5	12.7	6.35	5.16	0.4									●	●				
	DNMG150608-UK	15.5	12.7	6.35	5.16	0.8									●	●				
	DNMG150612-UK	15.5	12.7	6.35	5.16	1.2									●	●				
	NEW DNMG150616-UK	15.5	12.7	6.35	5.16	1.6									●	●				
	DNMG150408-HK	15.5	12.7	4.76	5.16	0.8									●	●				
	DNMG150412-HK	15.5	12.7	4.76	5.16	1.2									●	●				
	DNMG150608-HK	15.5	12.7	6.35	5.16	0.8	●		●						●	●				
	DNMG150612-HK	15.5	12.7	6.35	5.16	1.2	●		●						●	●				
	DNMA150404	15.5	12.7	4.76	5.16	0.4									●	●				
	DNMA150408	15.5	12.7	4.76	5.16	0.8									●	●				
	DNMA150412	15.5	12.7	4.76	5.16	1.2									●	●				
	DNMA150416	15.5	12.7	6.35	5.16	1.6									●	●				
	DNMA150604	15.5	12.7	6.35	5.16	0.4									●	●				
	DNMA150608	15.5	12.7	6.35	5.16	0.8									●	●				
	DNMA150612	15.5	12.7	6.35	5.16	1.2									●	●				

●标准库存 Stock ○需预定 Available upon Order

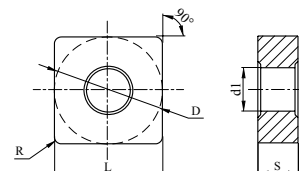
车削刀片(负型)

Turning Inserts (Negative)

SNMG

正方形90° 有孔

Square 90°, with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP115	GP125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	SNMG090304-GF	9.525	9.525	3.18	3.81	0.4	●	○	●											
	SNMG090308-GF	9.525	9.525	3.18	3.81	0.8	●	○	●											
	SNMG120404-GF	12.7	12.7	4.76	5.16	0.4	●	○	●											
	SNMG120408-GF	12.7	12.7	4.76	5.16	0.8	●	○	●											
	SNMG090304-QF	9.525	9.525	3.18	3.81	0.4	●		●											
	SNMG090308-QF	9.525	9.525	3.18	3.81	0.8	●		●											
	SNMG120404-QF	12.7	12.7	4.76	5.16	0.4	●		●											
	SNMG120408-QF	12.7	12.7	4.76	5.16	0.8	●		●											
	SNMG090304-GM	9.525	9.525	3.18	3.81	0.4	○	●	●											●
	SNMG090308-GM	9.525	9.525	3.18	3.81	0.8	○	●	●											●
	SNMG120404-GM	12.7	12.7	4.76	5.16	0.4	○	●	●											●
	SNMG120408-GM	12.7	12.7	4.76	5.16	0.8	○	●	●											●
	SNMG120412-GM	12.7	12.7	4.76	5.16	1.2	○	●	●											●
	SNMG120416-GM	12.7	12.7	4.76	5.16	1.6	○	●	●											
	SNMG150604-GM	15.875	15.875	6.35	6.35	0.4	○	●	●											
	SNMG150608-GM	15.875	15.875	6.35	6.35	0.8	○	●	●											
	SNMG150612-GM	15.875	15.875	6.35	6.35	1.2	○	●	●											
	SNMG150616-GM	15.875	15.875	6.35	6.35	1.6	○	●	●											
	SNMG190612-GM	19.05	19.05	6.35	7.94	1.2	○	●	●											
	SNMG190616-GM	19.05	19.05	6.35	7.94	1.6	○	●	●											
	SNMG090304-QM	9.525	9.525	3.18	3.81	0.4	●		●											
	SNMG090308-QM	9.525	9.525	3.18	3.81	0.8	●		●											
	SNMG120404-QM	12.7	12.7	4.76	5.16	0.4	●		●											
	SNMG120408-QM	12.7	12.7	4.76	5.16	0.8	●		●											
	SNMG120412-QM	12.7	12.7	4.76	5.16	1.2	●		●											
	SNMG120416-QM	12.7	12.7	4.76	5.16	1.6	●		●											
	SNMG150608-QM	15.875	15.875	6.35	6.35	0.8	●		●											
	SNMG150612-QM	15.875	15.875	6.35	6.35	1.2	●		●											
	SNMG190612-QM	19.05	19.05	6.35	7.94	1.2	●		●											

●标准库存 Stock ○需预定 Available upon Order

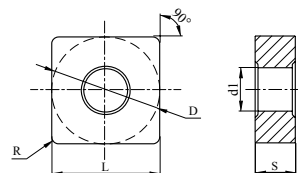
车削刀片(负型)

Turning Inserts (Negative)

SNMG

正方形90° 有孔

Square 90°, with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
NEW 	SNMG120408R-SV	12.7	12.7	4.76	5.16	0.8	○	●												
	SNMG120408L-SV	12.7	12.7	4.76	5.16	0.8	○	●												
NEW 	SNMG090304-SM	9.525	9.525	3.18	3.81	0.4						●		●						
	SNMG090308-SM	9.525	9.525	3.18	3.81	0.8						●	●	●						
	SNMG120404-SM	12.7	12.7	4.76	5.16	0.4						●	●	●						
	SNMG120408-SM	12.7	12.7	4.76	5.16	0.8						●	●	●						
	SNMG120412-SM	12.7	12.7	4.76	5.16	1.2						●		●						
	SNMG120416-SM	12.7	12.7	4.76	5.16	1.6						●		●						
	SNMG150408-SM	15.875	15.875	4.76	5.16	0.8						●		●						
	SNMG150412-SM	15.875	15.875	4.76	5.16	1.2						●		●						
	SNMG150416-SM	15.875	15.875	4.76	5.16	1.6						●		●						
	SNMG190608-SM	19.05	19.05	4.76	7.94	0.8						●		●						
	SNMG190612-SM	19.05	19.05	4.76	7.94	1.2						●		●						
	SNMG190616-SM	19.05	19.05	4.76	7.94	1.6						●		●						
	SNMG120408-UK	12.7	12.7	4.76	5.16	0.8									●	●				
	SNMG120412-UK	12.7	12.7	4.76	5.16	1.2									●	●				
	SNMG150412-UK	15.875	15.875	4.76	6.35	1.2									●	●				
	SNMG150612-UK	15.875	15.875	6.35	6.35	1.2									●	●				
	SNMG150616-UK	15.875	15.875	6.35	6.35	1.6									●	●				
	SNMG190612-UK	19.05	19.05	6.35	7.94	1.2									●	●				
	SNMG190616-UK	19.05	19.05	6.35	7.94	1.6									●	●				
NEW 	SNMG120408-HK	12.7	12.7	4.76	5.16	0.8	●		●						●	●				
	SNMG120412-HK	12.7	12.7	4.76	5.16	1.2	●		●						●	●				
	SNMG120416-HK	12.7	12.7	4.76	5.16	1.6									●	●				
	SNMG150612-HK	15.875	15.875	6.35	6.35	1.2									●	●				
	SNMG150616-HK	15.875	15.875	6.35	6.35	1.6									●	●				
	SNMG190612-HK	19.05	19.05	6.35	7.94	1.2									●	●				
	SNMG190616-HK	19.05	19.05	6.35	7.94	1.6									●	●				

●标准库存 Stock ○需预定 Available upon Order

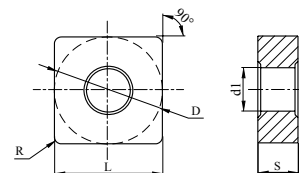
车削刀片(负型)

Turning Inserts (Negative)

SNMG

正方形90° 有孔

Square 90°,with Hole

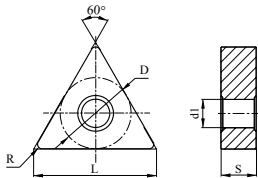


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated								硬质合金 Uncoated			金属陶瓷 Cermet		
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	SNMA090304	9.525	9.525	3.18	3.81	0.4									●	●				
	SNMA090308	9.525	9.525	3.18	3.81	0.8									●	●				
	SNMA090312	9.525	9.525	3.18	3.81	1.2									●	●				
	SNMA120404	12.7	12.7	4.76	5.16	0.4									●	●				
	SNMA120408	12.7	12.7	4.76	5.16	0.8									●	●				
	SNMA120412	12.7	12.7	4.76	5.16	1.2									●	●				
	SNMA120416	12.7	12.7	4.76	5.16	1.6									●	●				
	SNMA190612	19.05	19.05	6.35	7.94	1.2									●	●				
	SNMA190616	19.05	19.05	6.35	7.94	1.6									●	●				

●标准库存 Stock ○需预定 Available upon Order

车削刀片(负型)
Turning Inserts (Negative)

TNMG
三角形60° 有孔
Triangle 60°, with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
							GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	TNMG110304-GF	11	6.35	2.26	3.81	0.4	●	○	●											
	TNMG160304-GF	16.5	9.525	3.18	3.81	0.4	●	○	●											
	TNMG160308-GF	16.5	9.525	3.18	3.81	0.8	●	○	●											
	TNMG160404-GF	16.5	9.525	4.76	3.81	0.4	●	○	●											
	TNMG160408-GF	16.5	9.525	4.76	3.81	0.8	●	○	●										●	
	TNMG220404-GF	22	12.7	4.76	5.16	0.4	●	○	●											
	TNMG220408-GF	22	12.7	4.76	5.16	0.8	●	○	●											
	TNMG160404-QF	16.5	9.525	4.76	3.81	0.4	●		●											
	TNMG160408-QF	16.5	9.525	4.76	3.81	0.8	●		●											
	TNMG220404-QF	22	12.7	4.76	5.16	0.4	●		●											
	TNMG220408-QF	22	12.7	4.76	5.16	0.8	●		●											
	TNMG160304-GM	16.5	9.525	3.18	3.81	0.4	○	●	●											
	TNMG160308-GM	16.5	9.525	3.18	3.81	0.8	○	●	●											
	TNMG160312-GM	16.5	9.525	3.18	3.81	1.2	○	●	●											
	TNMG160404-GM	16.5	9.525	4.76	3.81	0.4	○	●	●										●	
	TNMG160408-GM	16.5	9.525	4.76	3.81	0.8	○	●	●										●	
	TNMG160412-GM	16.5	9.525	4.76	3.81	1.2	○	●	●											
	TNMG220404-GM	22	12.7	4.76	5.16	0.4	○	●	●											
	TNMG220408-GM	22	12.7	4.76	5.16	0.8	○	●	●										●	
	TNMG220412-GM	22	12.7	4.76	5.16	1.2	○	●	●										●	
	TNMG220416-GM	22	12.7	4.76	5.16	1.6	○	●	●											
	TNMG270608-GM	27.5	15.875	6.35	6.35	0.8	○	●	●											
	TNMG270612-GM	27.5	15.875	6.35	6.35	1.2	○	●	●											
	TNMG330608-GM	33	19.05	6.35	7.94	0.8	○	●	●											
	TNMG330612-GM	33	19.05	6.35	7.94	1.2	○	●	●											

●标准库存 Stock ○需预定 Available upon Order

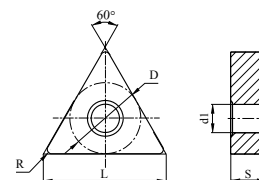
车削刀片(负型)

Turning Inserts (Negative)

TNMG

三角形60° 有孔

Triangle 60°,with Hole

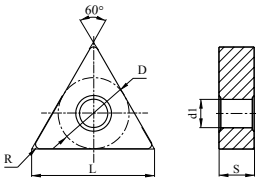


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	TNMG110304-QM	11	6.35	3.18	2.26	0.4	●		●											
	TNMG110308-QM	11	6.35	3.18	2.26	0.8	●		●											
	TNMG160404-QM	16.5	9.525	4.76	3.81	0.4	●		●											
	TNMG160408-QM	16.5	9.525	4.76	3.81	0.8	●		●											
	TNMG160412-QM	16.5	9.525	4.76	3.81	1.2	●		●											
	TNMG220408-QM	22	12.7	4.76	5.16	0.8	●		●											
	TNMG220412-QM	22	12.7	4.76	5.16	1.2	●		●											
	TNMG220416-QM	22	12.7	4.76	5.16	1.6	●		●											
	TNMG160404R-SV	16.5	9.525	4.76	3.81	0.4	○		●											
	TNMG160404L-SV	16.5	9.525	4.76	3.81	0.4	○		●											
	TNMG160408R-SV	16.5	9.525	4.76	3.81	0.8	○		●											
	TNMG160408L-SV	16.5	9.525	4.76	3.81	0.8	○		●											
	TNMG160404-SM	16.5	9.525	4.76	3.81	0.4						●	●	●						
	TNMG160408-SM	16.5	9.525	4.76	3.81	0.8						●	●	●						
	TNMG160412-SM	16.5	9.525	4.76	3.81	1.2						●		●						
	TNMG220408-SM	22	12.7	4.76	4.76	0.8						●	●	●						
	TNMG220412-SM	22	12.7	4.76	4.76	1.2						●		●						
	TNMG220416-SM	22	12.7	4.76	4.76	1.6						●		●						
	TNMG160404-UK	16.5	9.525	4.76	3.81	0.4									●	●				
	TNMG160408-UK	16.5	9.525	4.76	3.81	0.8									●	●				
	TNMG160412-UK	16.5	9.525	4.76	3.81	1.2									●	●				
	TNMG160416-UK	16.5	9.525	4.76	3.81	1.6									●	●				
	TNMG220408-UK	22	12.7	4.76	5.16	0.8									●	●				
	TNMG220412-UK	22	12.7	4.76	5.16	1.2									●	●				
	TNMG220416-UK	22	12.7	4.76	5.16	1.6									●	●				

●标准库存 Stock ○需预定 Available upon Order

车削刀片(负型)
Turning Inserts (Negative)

TNMG
三角形60° 有孔
Triangle 60°, with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated								硬质合金 Uncoated			金属陶瓷 Cermet		
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	TNMG160408-HK	16.5	9.525	4.76	3.81	0.8	●		●						●	●				
	TNMG160412-HK	16.5	9.525	4.76	3.81	1.2									●	●				
	TNMG220408-HK	22	12.7	4.76	5.16	0.8									●	●				
	TNMG220412-HK	22	12.7	4.76	5.16	1.2			●						●	●				
	TNMG220416-HK	22	12.7	4.76	5.16	1.6									●	●				
	TNMG270612-HK	27.5	15.875	6.35	6.35	1.2									●	●				
	TNMG270616-HK	27.5	15.875	6.35	6.35	1.6									●	●				
	TNMA110304	11	6.35	3.18	2.26	0.4									●	●				
	TNMA110308	11	6.35	3.18	2.26	0.8									●	●				
	TNMA160308	16.5	9.525	3.18	3.81	0.8									●	●				
	TNMA160404	16.5	9.525	4.76	3.81	0.4									●	●				
	TNMA160408	16.5	9.525	4.76	3.81	0.8									●	●				
	TNMA160412	16.5	9.525	4.76	3.81	1.2									●	●				
	TNMA160416	16.5	9.525	4.76	3.81	1.6									●	●				
	TNMA220404	22	12.7	4.76	5.16	0.4									●	●				
	TNMA220408	22	12.7	4.76	5.16	0.8									●	●				
	TNMA220412	22	12.7	4.76	5.16	1.2									●	●				
	TNMA220416	22	12.7	4.76	5.16	1.6									●	●				

●标准库存 Stock ○需预定 Available upon Order

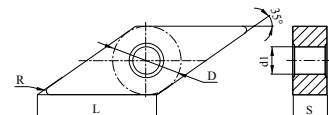
车削刀片(负型)

Turning Inserts (Negative)

VNMG

菱形35° 有孔

Rhombic35°,with Hole



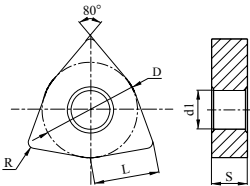
订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
							GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	
	VNMG160404-GF	16.6	9.525	4.76	3.81	0.4	●	○	●											
	VNMG160408-GF	16.6	9.525	4.76	3.81	0.8	●	○	●											
	VNMG220404-GF	22.1	12.7	4.76	5.16	0.4	●	○	●											
	VNMG220408-GF	22.1	12.7	4.76	5.16	0.8	●	○	●											
	VNMG160404-QF	16.6	9.525	4.76	3.81	0.4	●		●											
	VNMG160408-QF	16.6	9.525	4.76	3.81	0.8	●		●											
	VNMG220404-QF	22.1	12.7	4.76	5.16	0.4	●		●											
	VNMG220408-QF	22.1	12.7	4.76	5.16	0.8	●		●											
	VNMG160404-GM	16.6	9.525	4.76	3.81	0.4	○	●	●											●
	VNMG160408-GM	16.6	9.525	4.76	3.81	0.8	○	●	●											●
	VNMG160412-GM	16.6	9.525	4.76	3.81	1.2	○	●	●											
	VNMG220408-GM	22.1	12.7	4.76	5.16	0.8	○	●	●											
	VNMG160404-QM	16.6	9.525	4.76	3.81	0.4	●		●											
	VNMG160408-QM	16.6	9.525	4.76	3.81	0.8	●		●											
	VNMG160412-QM	16.6	9.525	4.76	3.81	1.2	●		●											
	VNMG160404-SM	16.6	9.525	4.76	3.81	0.4						●	●	●						
	VNMG160408-SM	16.6	9.525	4.76	3.81	0.8						●	●	●						
	VNMG160404-UK	16.6	9.525	4.76	3.81	0.4									●	●				
	VNMG160408-UK	16.6	9.525	4.76	3.81	0.8									●	●				
	VNMG160412-UK	16.6	9.525	4.76	3.81	1.2									●	●				
	VNMG160408-HK	16.6	9.525	4.76	3.81	0.8									●	●				
	VNMG160412-HK	16.6	9.525	4.76	3.81	1.2									●	●				

●标准库存 Stock ○需预定 Available upon Order

车削刀片(负型)
Turning Inserts (Negative)

WNMG

六边形80° 有孔
Trigon80°,with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	WNMG060404-GF	6.5	9.525	4.76	3.81	0.4	●	○	●											
	WNMG060408-GF	6.5	9.525	4.76	3.81	0.8	●	○	●											
	WNMG080404-GF	8.7	12.7	4.76	5.16	0.4	●	○	●											●
	WNMG080408-GF	8.7	12.7	4.76	5.16	0.8	●	○	●											
	WNMG060404-QF	6.5	9.525	4.76	3.81	0.4	●		●											
	WNMG060408-QF	6.5	9.525	4.76	3.81	0.8	●		●											
	WNMG080404-QF	8.7	12.7	4.76	5.16	0.4	●		●											
	WNMG080408-QF	8.7	12.7	4.76	5.16	0.8	●		●											
	WNMG06T304-GM	6.5	9.525	3.97	3.81	0.4	○	●	●											
	WNMG06T308-GM	6.5	9.525	3.97	3.81	0.8	○	●	●											
	WNMG060404-GM	6.5	9.525	4.76	3.81	0.4	○	●	●											
	WNMG060408-GM	6.5	9.525	4.76	3.81	0.8	○	●	●											
	WNMG080404-GM	8.7	12.7	4.76	5.16	0.4	○	●	●											●
	WNMG080408-GM	8.7	12.7	4.76	5.16	0.8	○	●	●											●
	WNMG080412-GM	8.7	12.7	4.76	5.16	1.2	○	●	●											
	WNMG080416-GM	8.7	12.7	4.76	5.16	1.6	○	●	●											
	WNMG060404-QM	6.5	9.525	4.76	3.81	0.4	●		●											
	WNMG060408-QM	6.5	9.525	4.76	3.81	0.8	●		●											
	WNMG080404-QM	8.7	12.7	4.76	5.16	0.4	●		●											
	WNMG080408-QM	8.7	12.7	4.76	5.16	0.8	●	○	●											
	WNMG080412-QM	8.7	12.7	4.76	5.16	1.2	●	○	●											
	WNMG080416-QM	8.7	12.7	4.76	5.16	1.6	●		●											

●标准库存 Stock ○需预定 Available upon Order

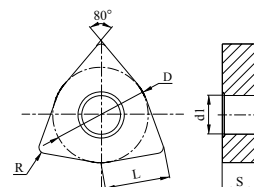
车削刀片(负型)

Turning Inserts (Negative)

WNMG

六边形80° 有孔

Trigon80°,with Hole



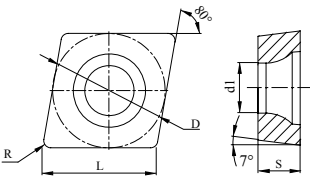
订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated								硬质合金 Uncoated				金属陶瓷 Cermet	
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
 	WNMG06T304-SM	6.5	9.525	3.97	3.81	0.4						●		●						
	WNMG06T308-SM	6.5	9.525	3.97	3.81	0.8						●		●						
	WNMG06T312-SM	6.5	9.525	3.97	3.81	1.2						●		●						
	WNMG060404-SM	6.5	9.525	4.76	3.81	0.4						●	●	●						
	WNMG060408-SM	6.5	9.525	4.76	3.81	0.8						●	●	●						
	WNMG060412-SM	6.5	9.525	4.76	3.81	1.2						●		●						
	WNMG080404-SM	8.7	12.7	4.76	5.16	0.4						●	●	●						
	WNMG080408-SM	8.7	12.7	4.76	5.16	0.8						●	●	●						
WNMG080412-SM	8.7	12.7	4.76	5.16	1.2						●		●							
	WNMG080404-UK	8.7	12.7	4.76	5.16	0.4									●	●				
	WNMG080408-UK	8.7	12.7	4.76	5.16	0.8									●	●				
	WNMG080412-UK	8.7	12.7	4.76	5.16	1.2									●	●				
 	WNMG060408-HK	6.5	9.525	4.76	3.81	0.8									●	●				
	WNMG080408-HK	8.7	12.7	4.76	5.16	0.8	●		●						●	●				
	WNMG080412-HK	8.7	12.7	4.76	5.16	1.2	●		●						●	●				
	WNMA060404	6.5	9.525	4.76	3.81	0.4									●	●				
	WNMA060408	6.5	9.525	4.76	3.81	0.8									●	●				
	WNMA080404	8.7	12.7	4.76	5.16	0.4									●	●				
	WNMA080408	8.7	12.7	4.76	5.16	0.8									●	●				
	WNMA080412	8.7	12.7	4.76	5.16	1.2									●	●				
	WNMA080416	8.7	12.7	4.76	5.16	1.6									●	●				

● 标准库存 Stock ○ 需预定 Available upon Order

车削刀片(正型)
Turning Inserts (Positive)

CCMT/CCGT

菱形80° 有孔
Rhombic80°,with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet	
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF	
	CCMT060202-GP	6.5	6.35	2.38	2.8	0.2	●	●	●			●			●					●	
	CCMT060204-GP	6.5	6.35	2.38	2.8	0.4	●	●	●			●			●	●				●	
	CCMT060208-GP	6.5	6.35	2.38	2.8	0.8	●	●	●			●			●					●	
	CCMT09T302-GP	9.7	9.525	3.97	4.4	0.2	●	●	●			●			●					●	
	CCMT09T304-GP	9.7	9.525	3.97	4.4	0.4	●	●	●		●	●			●					●	
	CCMT09T308-GP	9.7	9.525	3.97	4.4	0.8	●	●	●		●	●			●	●				●	
	CCMT120404-GP	12.9	12.7	4.76	5.56	0.4	●	●	●			●			●						
	CCMT120408-GP	12.9	12.7	4.76	5.56	0.8	●	●	●			●			●	●					
	CCMT120412-GP	12.9	12.7	4.76	5.56	1.2	●	●	●			●			●						
	CCGT060202-GP	6.5	6.35	2.38	2.8	0.2					●										
	CCGT060204-GP	6.5	6.35	2.38	2.8	0.4					●										●
	CCGT060208-GP	6.5	6.35	2.38	2.8	0.8					●			●							●
	CCGT09T302-GP	9.7	9.525	3.97	4.4	0.2					●										●
	CCGT09T304-GP	9.7	9.525	3.97	4.4	0.4					●										●
	CCGT09T308-GP	9.7	9.525	3.97	4.4	0.8					●			●							●
	CCGT120404-GP	12.9	12.7	4.76	5.56	0.4					●										
CCGT120408-GP	12.9	12.7	4.76	5.56	0.8					●											

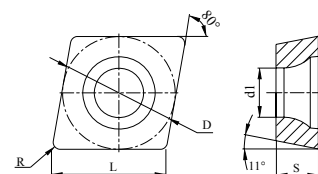
●标准库存 Stock ○需预定 Available upon Order

车削刀片(正型)
Turning Inserts (Positive)

CPMT/CPGT

菱形80° 有孔

Rhombic80°,with Hole





订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	CPMT120412-GP	12.9	12.7	4.76	5.56	1.2	●	●	●			●			●					
	CPGT060204-GP	6.5	6.35	2.38	2.8	0.4					●			●						
	CPGT060208-GP	6.5	6.35	2.38	2.8	0.8					●									
	CPGT09T302-GP	9.7	9.525	3.97	4.4	0.2					●									
	CPGT09T304-GP	9.7	9.525	3.97	4.4	0.4					●			●						
	CPGT09T308-GP	9.7	9.525	3.97	4.4	0.8					●									
	CPGT120404-GP	12.9	12.7	4.76	5.56	0.4					●									
	CPGT120408-GP	12.9	12.7	4.76	5.56	0.8					●									

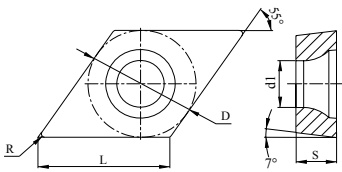


●标准库存 Stock ○需预定 Available upon Order

车削刀片(正型)
Turning Inserts (Positive)

DCMT/DCGT

菱形55° 有孔
Rhombic55°,with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
							GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	DCMT070202-GP	7.8	6.35	2.38	2.8	0.2	●	●	●			●			●					●
	DCMT070204-GP	7.8	6.35	2.38	2.8	0.4	●	●	●			●			●					●
	DCMT070208-GP	7.8	6.35	2.38	2.8	0.8	●	●	●			●			●					●
	DCMT11T302-GP	11.6	9.525	3.97	4.4	0.2	●	●	●			●			●					●
	DCMT11T304-GP	11.6	9.525	3.97	4.4	0.4	●	●	●		●	●			●	●				●
	DCMT11T308-GP	11.6	9.525	3.97	4.4	0.8	●	●	●		●	●			●					●
	DCMT150404-GP	15.5	12.7	4.76	5.56	0.4	●	●	●			●			●					
	DCMT150408-GP	15.5	12.7	4.76	5.56	0.8	●	●	●			●			●					
	DCMT150412-GP	15.5	12.7	4.76	5.56	1.2	●	●	●			●			●					
	DCGT070202-GP	7.8	6.35	2.38	2.8	0.2					●									
	DCGT070204-GP	7.8	6.35	2.38	2.8	0.4					●			●						●
	DCGT070208-GP	7.8	6.35	2.38	2.8	0.8					●									●
	DCGT11T302-GP	11.6	9.525	3.97	4.4	0.2					●									
	DCGT11T304-GP	11.6	9.525	3.97	4.4	0.4					●									●
	DCGT11T308-GP	11.6	9.525	3.97	4.4	0.8					●									●



●标准库存 Stock ○需预定 Available upon Order

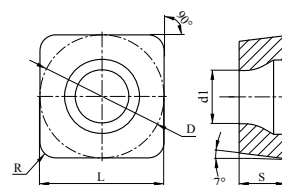
车削刀片(正型)

Turning Inserts (Positive)

SCMT

正方形90° 有孔

Square 90°, with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	SCMT09T304-GP	9.525	9.525	3.97	4.4	0.4	●	●	●			●			●					●
	SCMT09T308-GP	9.525	9.525	3.97	4.4	0.8	●	●	●			●			●					●
	SCMT120404-GP	12.7	12.7	4.76	5.56	0.4	●	●	●			●			●					
	SCMT120408-GP	12.7	12.7	4.76	5.56	0.8	●	●	●			●			●					

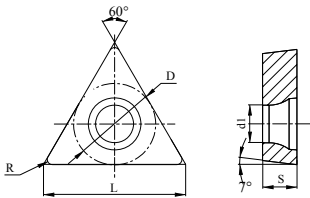
●标准库存 Stock ○需预定 Available upon Order

车削刀片(正型)
Turning Inserts (Positive)

TCMT/TCGT

三角形60° 有孔

Triangle 60°, with Hole



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	TCMT090204-GP	9.6	5.56	2.38	2.5	0.4	●	●	●			●			●					●
	TCMT110202-GP	11	6.35	2.38	2.8	0.2	●	●	●			●			●					●
	TCMT110204-GP	11	6.35	2.38	2.8	0.4	●	●	●			●			●					●
	TCMT110208-GP	11	6.35	2.38	2.8	0.8	●	●	●			●			●					●
	TCMT16T304-GP	16.5	9.525	3.97	4.4	0.4	●	●	●		●	●			●	●				●
	TCMT16T308-GP	16.5	9.525	3.97	4.4	0.8	●	●	●		●	●			●	●				●
	TCMT16T312-GP	16.5	9.525	3.97	4.4	1.2		●							●					
	TCMT220408-GP	22	12.7	4.76	5.56	0.8	●	●	●			●			●					
	TCGT090204-GP	9.6	5.56	2.38	2.5	0.4					●									
	TCGT110202-GP	11	6.35	2.38	2.8	0.2					●									
	TCGT110204-GP	11	6.35	2.38	2.8	0.4					●									●
	TCGT110208-GP	11	6.35	2.38	2.8	0.8					●									
	TCGT16T304-GP	16.5	9.525	3.97	4.4	0.4					●									●
	TCGT16T308-GP	16.5	9.525	3.97	4.4	0.8					●									●



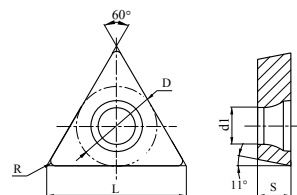
●标准库存 Stock ○需预定 Available upon Order

车削刀片(正型) Turning Inserts (Positive)

TPGT

三角形60° 有孔

Triangle 60°,with Hole



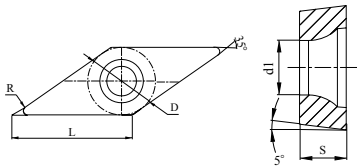
订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated								硬质合金 Uncoated			金属陶瓷 Cermet		
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	TPGT110204-GP	11	6.35	2.38	2.8	0.4					●									
	TPGT110208-GP	11	6.35	2.38	2.8	0.8					●									
	TPGT16T304-GP	16.5	9.525	3.97	4.4	0.4					●									
	TPGT16T308-GP	16.5	9.525	3.97	4.4	0.8					●									

●标准库存 Stock ○需预定 Available upon Order

车削刀片(正型)
Turning Inserts (Positive)

VBMT

菱形35° 有孔
Rhombic35°,with Hole

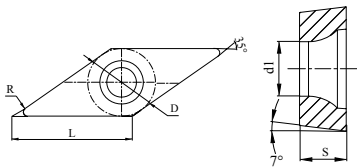


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated								硬质合金 Uncoated			金属陶瓷 Cermet		
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	VBMT160404-GP	16.6	9.525	4.76	4.4	0.4	●	○			●	●			●					●
	VBMT160408-GP	16.6	9.525	4.76	4.4	0.8	●	○			●	●			●					●

●标准库存 Stock ○需预定 Available upon Order

VCMT/VCMT

菱形35° 有孔
Rhombic35°,with Hole



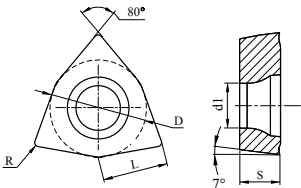
订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
							GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	VCMT110304-GP	11.2	6.35	3.18	2.8	0.4	●	○	●			●			●					
	VCMT160404-GP	16.6	9.525	4.76	4.4	0.4	●	○	●			●			●					
	VCMT160408-GP	16.6	9.525	4.76	4.4	0.8	●	○	●			●			●					
	VCGT110304-GP	11.2	6.35	3.18	2.8	0.4						●								
	VCGT160404-GP	16.6	9.525	4.76	4.4	0.4						●			●					
	VCGT160408-GP	16.6	9.525	4.76	4.4	0.8						●								

●标准库存 Stock ○需预定 Available upon Order

车削刀片(正型)
Turning Inserts (Positive)

WCMT

六边形80° 有孔
Trigon80°,with Hole



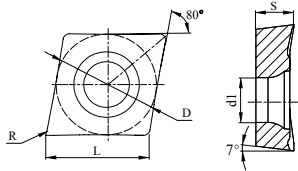
订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	WCMT06T304-GP	6.5	9.525	3.97	4.4	0.4	●	○	●			●			●					●
	WCMT06T308-GP	6.5	9.525	3.97	4.4	0.8	●	○	●			●			●					●

●标准库存 Stock ○需预定 Available upon Order

铝材车削刀片
Turning Inserts for Aluminum

CCGX

菱形80° 有孔
Rhombic80° with Hole

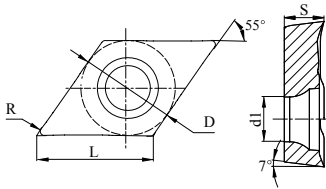


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated								硬质合金 Uncoated			金属陶瓷 Cermet		
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	CCGX060204-AL	6.5	6.35	2.38	2.8	0.4											●			
	CCGX060208-AL	6.5	6.35	2.38	2.8	0.8											○	○	●	
	CCGX09T304-AL	9.7	9.525	3.97	4.4	0.4											○	●	●	
	CCGX09T308-AL	9.7	9.525	3.97	4.4	0.8											○	●	●	
	CCGX120404-AL	12.9	12.7	4.76	5.5	0.4											○	○	●	
	CCGX120408-AL	12.9	12.7	4.76	5.5	0.8											○	○	●	

●标准库存 Stock ○需预定 Available upon Order

DCGX

菱形55° 有孔
Rhombic55° with Hole

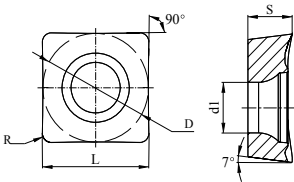


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated								硬质合金 Uncoated			金属陶瓷 Cermet		
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	DCGX070204-AL	7.8	6.35	2.38	2.8	0.4											○	●	●	
	DCGX070208-AL	7.8	6.35	2.38	2.8	0.8											○	○	●	
	DCGX11T304-AL	11.6	9.525	3.97	4.4	0.4											○	●	●	
	DCGX11T308-AL	11.6	9.525	3.97	4.4	0.8											○	○	●	

●标准库存 Stock ○需预定 Available upon Order

铝材车削刀片
Turning Inserts for Aluminum

SCGX
正方形90° 有孔
Square 90° with Hole

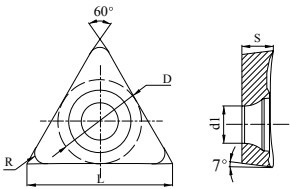


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	SCGX09T304-AL	9.525	9.525	3.97	4.4	0.4											○	○	●	
	SCGX09T308-AL	9.525	9.525	3.97	4.4	0.8											○	○	●	
	SCGX120404-AL	12.7	12.7	4.76	5.5	0.4											○	○	●	
	SCGX120408-AL	12.7	12.7	4.76	5.5	0.8											○	○	●	

●标准库存 Stock ○需预定 Available upon Order

铝材车削刀片
Turning Inserts for Aluminum

TCGX
三角形60° 有孔
Triangle 60° with Hole



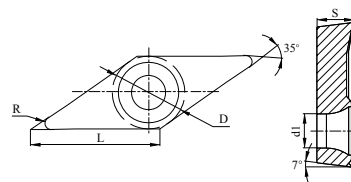
订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
		L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
	TCGX090204-AL	9.6	5.56	2.38	2.5	0.4											○	○	●	
	TCGX110204-AL	11	6.35	2.38	2.8	0.4											○	○	●	
	TCGX110208-AL	11	6.35	2.38	2.8	0.8											○	○	●	
	TCGX16T304-AL	16.5	9.525	3.97	4.4	0.4											○	○	●	
	TCGX16T308-AL	16.5	9.525	3.97	4.4	0.8											○	○	●	

●标准库存 Stock ○需预定 Available upon Order

铝材车削刀片 Turning Inserts for Aluminum

VCGX

菱形35° 有孔 Rhombic35° with Hole



订货号 Ordering Code	尺寸 Dimensions(mm)					涂层硬质合金 Coated										硬质合金 Uncoated			金属陶瓷 Cermet
	L	D	S	d1	R	GP1115	GP1125	GP1225	GP1135	GP3125	GM1125	GM3115	GM3125	GK1115	GK1125	GN9115	GN9125	GN9135	GP91TF
VCGX110304-AL	11.2	6.35	3.18	2.8	0.4											○	○	●	
VCGX110308-AL	11.2	6.35	3.18	2.8	0.8											○	○	●	
VCGX160404-AL	16.6	9.525	4.76	4.4	0.4											○	●	●	
VCGX160408-AL	16.6	9.525	4.76	4.4	0.8											○	○	●	
VCGX160412-AL	16.6	9.525	4.76	4.4	1.2											○	●	●	
VCGX220512-AL	22.1	12.7	5.56	5.6	1.2											○	○	●	
VCGX220516-AL	22.1	12.7	5.56	5.6	1.6											○	○	●	
VCGX220530-AL	22.1	12.7	5.56	5.6	3.0											○	●	●	



●标准库存 Stock ○需预定 Available upon Order

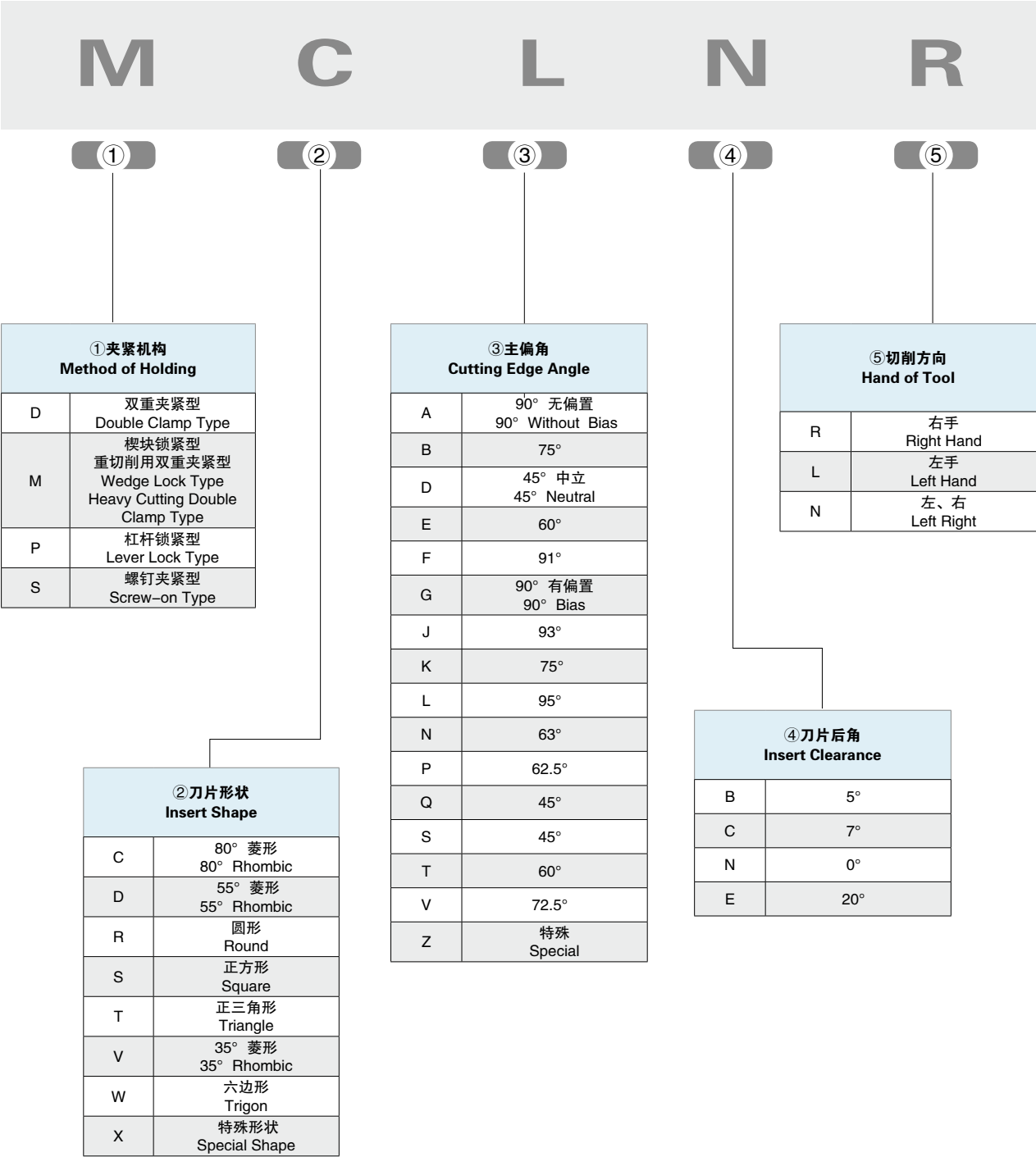


TURNING HOLDER

车削刀杆

MCBNR	MCLNR	MDJNR	MDPNN	MDQNR
Page52	Page52	Page53	Page53	Page54
				
MSBNR	MSKNR	MSSNR	MTENN	MTFNR
Page54	Page55	Page55	Page56	Page56
				
MTGNR	MTJNR	MVJNR	MVQNR	MWLNR
Page57	Page57	Page58	Page58	Page59
				
SCLCR	SDJCR	SSDCN	STGCR	SVJCR
Page60	Page60	Page61	Page61	Page62
				
SWLCR	SCLCR	SCKCR	SCLCR-A16	SDUCR
Page63	Page66	Page66	Page67	Page67
				
SDQCR	SDXCR	STUCR	STWCR	STFCR
Page68	Page68	Page69	Page69	Page70
				
SVUCR	SSKCR	SWLCR	SCLPR	STFPR
Page70	Page71	Page71	Page72	Page73
				

外圆车刀杆型号表示规则
External Turning Toolholders Identification System



25

25

M

12

⑥

⑥

⑦

⑧

⑥ 刀柄剖面
Tool Section(mm)

8	8
10	10
12	12
16	16
20	20
25	25
32	32

⑦ 刀柄长度
Tool Length(mm)

D	60
E	70
F	80
H	100
K	125
M	150
P	170
Q	180
R	200

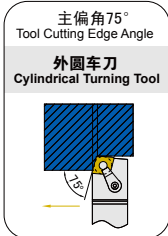
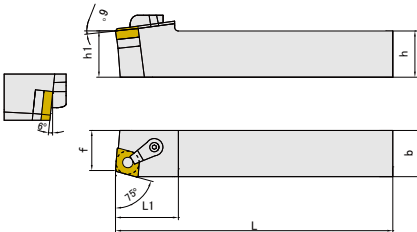
⑧ 切削刃长度
Cutting Edge Length(mm)

刀片内接圆 (mm) Insert IC (mm)	刀片形状 Insert Shape					
	正方形 Square	正三 角形 Triangle	圆形 Round	80° 菱形 80° Rhombic	55° 菱形 55° Rhombic	35° 菱形 35° Rhombic
6	-	-	06	-	-	-
6.35		11		06	07	11
7.94	-	13	-	-	-	-
8			08			
9.525	09	16	-	09	11	16
10	-	-	10	-	-	-
12	-	-	12	-	-	-
12.7	-	22	-	12	15	-
15.875	15	27	-	16	-	-
16	-	-	16	-	-	-
19.05	19	-	19	-	-	-
20	-	-	20	-	-	-
25	-	-	25	-	-	-
25.4	25	-	-	-	-	-
32	-	-	32	-	-	-

外圆车刀杆 (负型)
Cylindrical Turning Tool Holder (Negative)

NEW

MCBNR

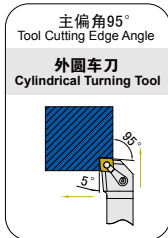
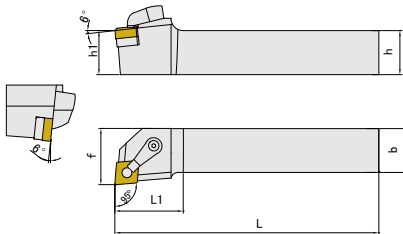


订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MCBNR2020K09	20	20	125	31	20	17	CN**0903**	MCN09	PM5X13	MC1810	ML0625	L2.0 L3.0	○
MCBNR2020K12	20	20	125	32	20	17	CN**1204**	MCN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MCBNR2525M12	25	25	150	32	25	22	CN**1204**	MCN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MCBNR3232P12	32	32	170	32	32	27	CN**1204**	MCN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MCBNR2525M16	25	25	150	32	25	33	CN**1606**	MCN16	PM8X19	MC1719	ML0830	L4.0 L5.0	●
MCBNR3232P19	32	32	170	40	32	29	CN**1906**	MCN19	PM10X22	MC2217	ML830	L4.0	○

●标准库存 Stock ○需预定 Available upon Order

NEW

MCLNR



订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MCLNR2020K09	20	20	125	28	20	25	CN**0903**	MCN09	PM5X13	MC1810	ML0625	L2.0 L3.0	○
MCLNR2020K12	20	20	125	25	20	32	CN**1204**	MCN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MCLNR2525M12	25	25	150	32	25	32	CN**1204**	MCN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MCLNR3232P12	32	32	170	40	32	32	CN**1204**	MCN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MCLNR2525M16	25	25	150	32	25	33	CN**1606**	MCN16	PM8X19	MC1719	ML0830	L4.0 L5.0	●
MCLNR3232P19	32	32	170	38	32	40	CN**1906**	MCN19	PM10X22	MC2217	ML830	L4.0 L5.0	○

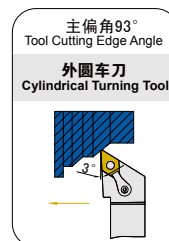
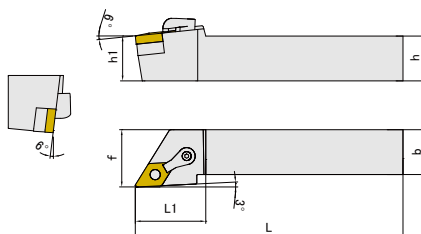
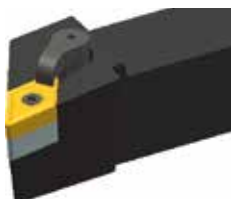
●标准库存 Stock ○需预定 Available upon Order

外圆车刀杆 (负型)

Cylindrical Turning Tool Holder (Negative)

NEW

MDJNR

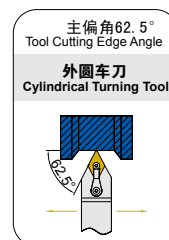
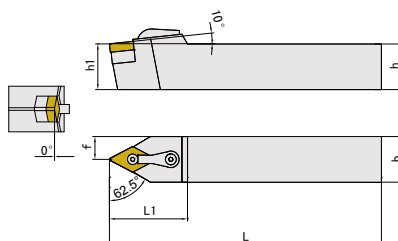


订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MDJNR2020K11	20	20	125	34	20	25	DN**1104**	MDN11	PM5X13	MC2114	ML0625	L2.0 L3.0	●
MDJNR2020K1506	20	20	125	38	20	25	DN**1504**	MDN1506	PM6X19	MC2114	ML0625	L2.5 L3.0	●
MDJNR2525M1506	25	25	150	38	25	32	DN**1504**	MDN1506	PM6X19	MC2114	ML0625	L2.5 L3.0	●
MDJNR3232P1504	32	32	170	38	32	40	DN**1506**	MDN1504	PM6X19	MC2114	ML0625	L2.5 L3.0	○

●标准库存 Stock ○需预定 Available upon Order

NEW

MDPNN



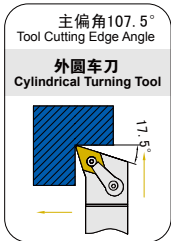
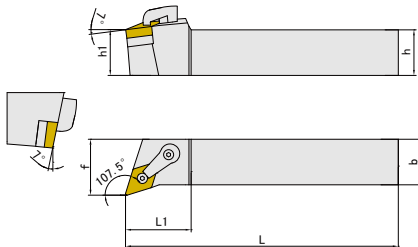
订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MDPNN2020K11	20	20	125	36	20	10	DN**1104**	MDN11	PM5X13	MC1814	ML0625	L2.0 L3.0	●
MDPNN2020K1504	20	20	125	42	20	10	DN**1504**	MDN1506	PM6X19	MC2114	ML0625	L2.5 L3.0	●
MDPNN2525M1504	25	25	150	42	25	12.5	DN**1504**	MDN1506	PM6X19	MC2114	ML0625	L2.5 L3.0	●
MDPNN3232P1506	32	32	170	42	32	16	DN**1506**	MDN1504	PM6X19	MC2114	ML0625	L2.5 L3.0	○

●标准库存 Stock ○需预定 Available upon Order

外圆车刀杆 (负型)
Cylindrical Turning Tool Holder (Negative)

NEW

MDQNR

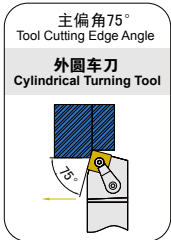
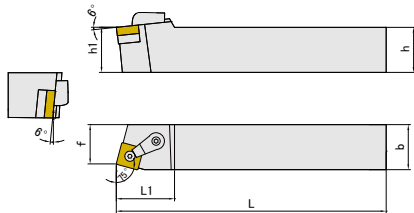


订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MDQNR2020K11	20	20	125	32	20	25	DN**1104**	MDN11	PM5X13	MC2114	ML0625	L2.0 L3.0	●
MDQNR2020K1504	20	20	125	36	20	25	DN**1504**	MDN1506	PM6X19	MC2114	ML0625	L2.5 L3.0	●
MDQNR2525M1504	25	25	150	36	25	32	DN**1504**	MDN1506	PM6X19	MC2114	ML0625	L2.5 L3.0	●
MDQNR3232P1506	32	32	170	36	32	40	DN**1506**	MDN1504	PM6X19	MC2114	ML0625	L2.5 L3.0	○

●标准库存 Stock ○需预定 Available upon Order

NEW

MSBNR



订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MSBNR2020K09	20	20	125	36	20	17	SN**0903**	MSN09	PM5X13	MC1810	ML0625	L2.0 L3.0	○
MSBNR2020K12	20	20	125	32.5	20	17	SN**1204**	MSN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MSBNR2525M12	25	25	150	32.5	25	22	SN**1204**	MSN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MSBNR3232P12	32	32	170	32.5	32	27	SN**1204**	MSN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MSBNR2525M15	25	25	150	38	25	22	SN**1506**	MSN15	PM8X22	MC2217	ML0830	L3.0 L4.0	○
MSBNR3232P19	32	32	170	42	32	27	SN**1906**	MSN19	PM10X22	MC2217	ML0830	L4.0	○

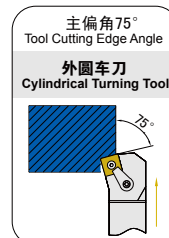
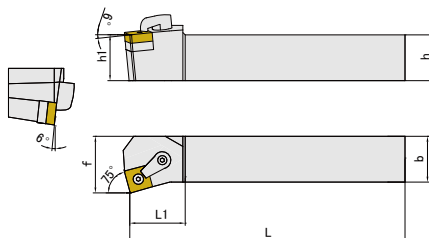
●标准库存 Stock ○需预定 Available upon Order

外圆车刀杆 (负型)

Cylindrical Turning Tool Holder (Negative)

NEW

MSKNR

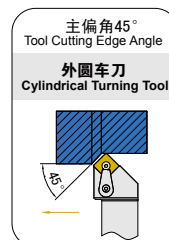
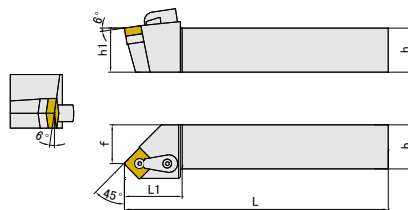


订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MSKNR2020K09	20	20	125	30	20	25	SN**0903**	MSN09	PM5X13	MC1810	ML0625	L2.0 L3.0	○
MSKNR2020K12	20	20	125	29	20	25	SN**1204**	MSN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MSKNR2525M12	25	25	150	29	25	32	SN**1204**	MSN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MSKNR3232P12	32	32	170	29	32	40	SN**1204**	MSN12	PM6X17	MC1814	ML0625	L2.5 L3.0	○
MSKNR2525M15	25	25	150	34	25	32	SN**1506**	MSN15	PM8X22	MC2217	ML0830	L3.0 L4.0	○
MSKNR3232P19	32	32	170	35	32	40	SN**1906**	MSN19	PM10X22	MC2217	ML0830	L4.0	○

●标准库存 Stock ○需预定 Available upon Order

NEW

MSSNR



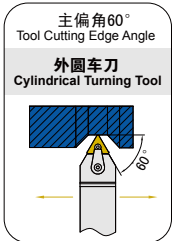
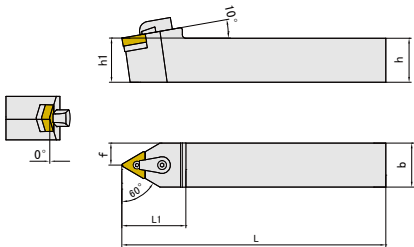
订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MSSNR2020K09	20	20	125	38	20	25	SN**0903**	MSN09	PM5X13	MC1810	ML0625	L2.0 L3.0	○
MSSNR2020K12	20	20	125	32	20	17	SN**1204**	MSN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MSSNR2525M12	25	25	150	32	25	22	SN**1204**	MSN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MSSNR3232P12	32	32	170	32	32	27	SN**1204**	MSN12	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MSSNR2525M15	25	25	150	40	25	32	SN**1506**	MSN15	PM8X22	MC2217	ML0830	L3.0 L4.0	○
MSSNR3232P19	32	32	170	43	32	40	SN**1906**	MSN19	PM10X22	MC2217	ML0830	L4.0	○

●标准库存 Stock ○需预定 Available upon Order

外圆车刀杆 (负型)
Cylindrical Turning Tool Holder (Negative)

NEW

MTENN

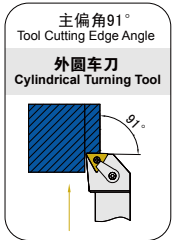
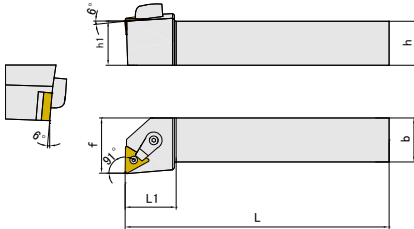


订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MTENN2020K16	20	20	125	35	20	10	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	●
MTENN2525M16	25	25	150	35	25	12.5	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	●
MTENN3232P16	32	32	170	35	32	16	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	○
MTENN3232P22	32	32	170	38	32	16	TN**2204**	MTN22	PM8X22	MC1917	ML0830	L2.5 L4.0	○

●标准库存 Stock ○需预定 Available upon Order

NEW

MTFNR



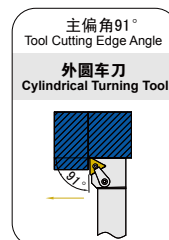
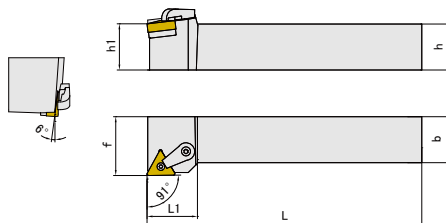
订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MTFNR2020K16	20	20	125	28	20	25	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	●
MTFNR2525M16	25	25	150	28	25	32	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	●
MTFNR3232P16	32	32	170	28	32	40	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	○
MTFNR3232P22	32	32	170	32	32	32	TN**2204**	MTN22	PM8X22	MC1917	ML0830	L2.5 L4.0	○

●标准库存 Stock ○需预定 Available upon Order

外圆车刀杆 (负型) Cylindrical Turning Tool Holder (Negative)

NEW

MTGNR

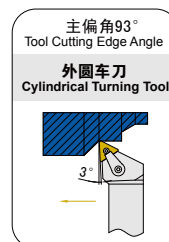
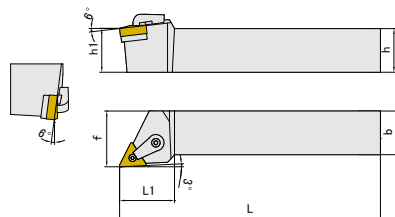
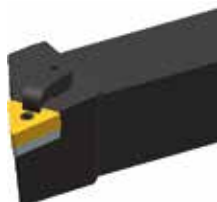


订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MTGNR2020K16	20	20	125	28	20	25	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	●
MTGNR2525M16	25	25	150	28	25	32	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	●
MTGNR3232P16	32	32	170	34	32	40	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	○
MTGNR3232P22	32	32	170	32	32	40	TN**2204**	MTN22	PM8X22	MC1917	ML0830	L2.5 L4.0	○

● 标准库存 Stock ○ 需预定 Available upon Order

NEW

MTJNR



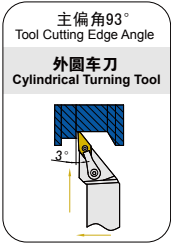
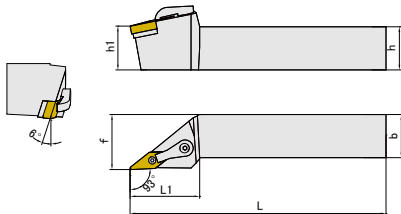
订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MTJNR2020K16	20	20	125	32	20	25	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	●
MTJNR2525M16	25	25	150	32	25	32	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	●
MTJNR3232P16	32	32	170	32	32	40	TN**1604**	MTN16	PM5X13	MC1814	ML0625	L2.0 L3.0	○
MTJNR3232P22	32	32	170	38	32	16	TN**2204**	MTN22	PM8X22	MC1917	ML0830	L2.5 L4.0	○

● 标准库存 Stock ○ 需预定 Available upon Order

外圆车刀杆 (负型)
Cylindrical Turning Tool Holder (Negative)

NEW

MVJNR

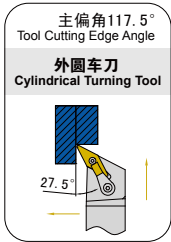
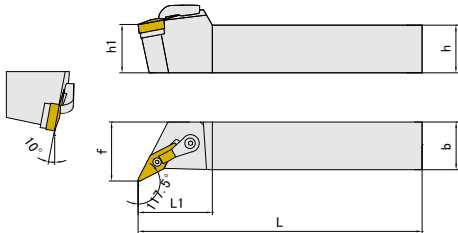


订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MVJNR2020K16	20	20	125	42	20	20	VN**1604**	MVN16	PM5X13	MC2414	ML0625	L2.0 L3.0	●
MVJNR2525M16	25	25	150	42	25	25	VN**1604**	MVN16	PM5X13	MC2414	ML0625	L2.0 L3.0	●
MVJNR3232P16	32	32	170	42	32	32	VN**1604**	MVN16	PM5X13	MC2414	ML0625	L2.0 L3.0	○

●标准库存 Stock ○需预定 Available upon Order

NEW

MVQNR



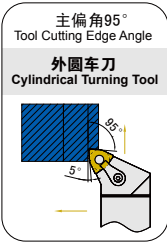
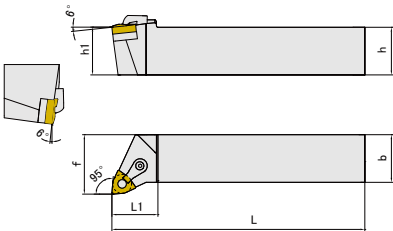
订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MVQNR2020K16	20	20	125	40	20	25	VN**1604**	MVN16	PM5X13	MC2414	ML0625	L2.0 L3.0	●
MVQNR2525M16	25	25	150	40	25	32	VN**1604**	MVN16	PM5X13	MC2414	ML0625	L2.0 L3.0	●
MVQNR3232P16	32	32	170	40	32	40	VN**1604**	MVN16	PM5X13	MC2414	ML0625	L2.0 L3.0	○

●标准库存 Stock ○需预定 Available upon Order

外圆车刀杆（负型）
Cylindrical Turning Tool Holder (Negative)

NEW

MWLN



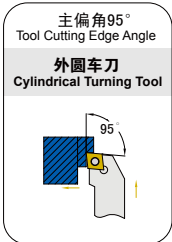
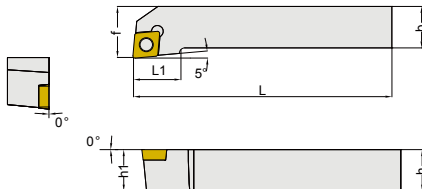
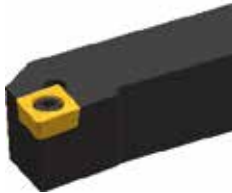
订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts					库存 Stock
	h	b	L	L1	h1	f		刀垫 Shim	销钉 Pin	压板 Clamp	双头螺丝 Screw	扳手 Wrench	
MWLN2020K06	20	20	125	25	20	32	WN**0604**	MWN06	PM5X13	MC0513	ML0520	L2.0 L3.0	●
MWLN2020K08	20	20	125	25	20	32	WN**0804**	MWN08	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MWLN2525M08	25	25	150	32	25	32	WN**0804**	MWN08	PM6X17	MC1814	ML0625	L2.5 L3.0	●
MWLN3232P08	32	32	170	40	32	32	WN**0804**	MWN08	PM6X17	MC1814	ML0625	L2.5 L3.0	●

●标准库存 Stock ○需预定 Available upon Order

外圆车刀杆 (正型)
Cylindrical Turning Tool Holder (Positive)

NEW

SCLCR

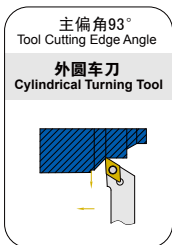
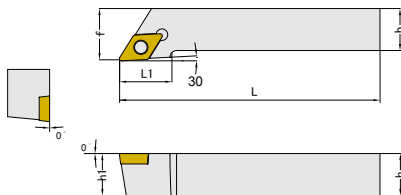


订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	h	b	L	L1	h1	f		螺钉 Screw	扳手 Wrench	
SCLCR1010E06	10	10	70	12	10	10	CC**0602**	S60M2.5X6	T8P	○
SCLCR1212F09	12	12	80	16	12	16	CC**09T3**	S60M4X8	T15P	○
SCLCR1616H09	16	16	100	20	16	20	CC**09T3**	S60M4X8	T15P	●
SCLCR2020K09	20	20	125	25	20	25	CC**09T3**	S60M4X8	T15P	●
SCLCR2525M12	25	25	150	32	25	32	CC**1204**	S60M5X12	T20P	●

●标准库存 Stock ○需预定 Available upon Order

NEW

SDJCR



订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	h	b	L	L1	h1	f		螺钉 Screw	扳手 Wrench	
SDJCR1010E07	10	10	70	12	10	15	DC**0702**	S60M2.5X6	T8P	○
SDJCR1212F07	12	12	80	16	12	15	DC**0702**	S60M4X8	T15P	○
SDJCR1616H11	16	16	100	20	16	24	DC**11T3**	S60M4X8	T15P	●
SDJCR2020K11	20	20	125	20	20	24	DC**11T3**	S60M4X8	T15P	●
SDJCR2525M11	25	25	150	23	25	29	DC**11T3**	S60M5X12	T20P	●

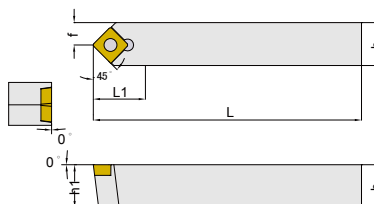
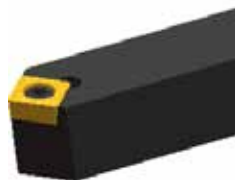
●标准库存 Stock ○需预定 Available upon Order

外圆车刀杆 (正型)

Cylindrical Turning Tool Holder (Positive)

NEW

SSDCN

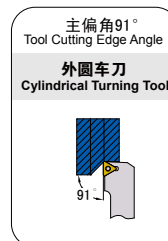
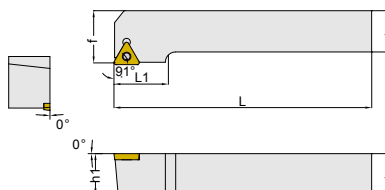


订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	h	b	L	L1	h1	f		螺钉 Screw	扳手 Wrench	
SSDCN1212F09	12	12	80	16	12	6	SC**09T3**	S60M4X10	T15P	○
SSDCN1616H09	16	16	100	16	16	8	SC**09T3**	S60M4X10	T15P	●
SSDCN2020K09	20	20	125	16	20	10	SC**09T3**	S60M4X10	T15P	●
SSDCN2525M12	25	25	150	22	25	12.5	SC**1204**	S60M5X12	T20P	○

● 标准库存 Stock ○ 需预定 Available upon Order

NEW

STGCR



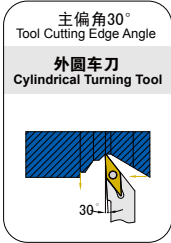
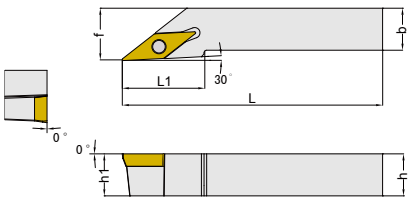
订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	h	b	L	L1	h1	f		螺钉 Screw	扳手 Wrench	
STGCR1010E09	10	10	70	12	10	11	TC**0902**	S60M2.2X6	T6P	○
STGCR1212F11	12	12	80	16	12	16	TC**1102**	S60M2.5X6	T8P	○
STGCR1616H11	16	16	100	20	16	20	TC**1102**	S60M2.5X6	T8P	●
STGCR2020K16	20	20	125	25	20	25	TC**16T3**	S60M4X10	T15P	●
STGCR2525M16	25	25	150	27	25	32	TC**16T3**	S60M4X10	T15P	●

● 标准库存 Stock ○ 需预定 Available upon Order

外圆车刀杆 (正型)
Cylindrical Turning Tool Holder (Positive)

NEW

SVJCR



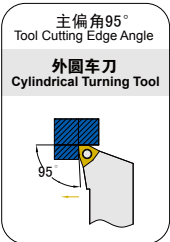
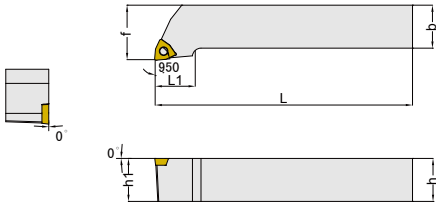
订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	h	b	L	L1	h1	f		螺钉 Screw	扳手 Wrench	
SVJCR1212F11	12	12	80	24	12	16	VC**11T3**	S60M2.5X6	T8P	○
SVJCR1616H11	16	16	100	26	16	20	VC**11T3**	S60M2.5X8	T8P	●
SVJCR2020K16	20	20	125	32	20	25	VC**1604**	S60M4X10	T15P	●
SVJCR2525M16	25	25	150	32	25	32	VC**1604**	S60M4X10	T15P	●

●标准库存 Stock ○需预定 Available upon Order

外圆车刀杆（正型）
Cylindrical Turning Tool Holder (Positive)

NEW

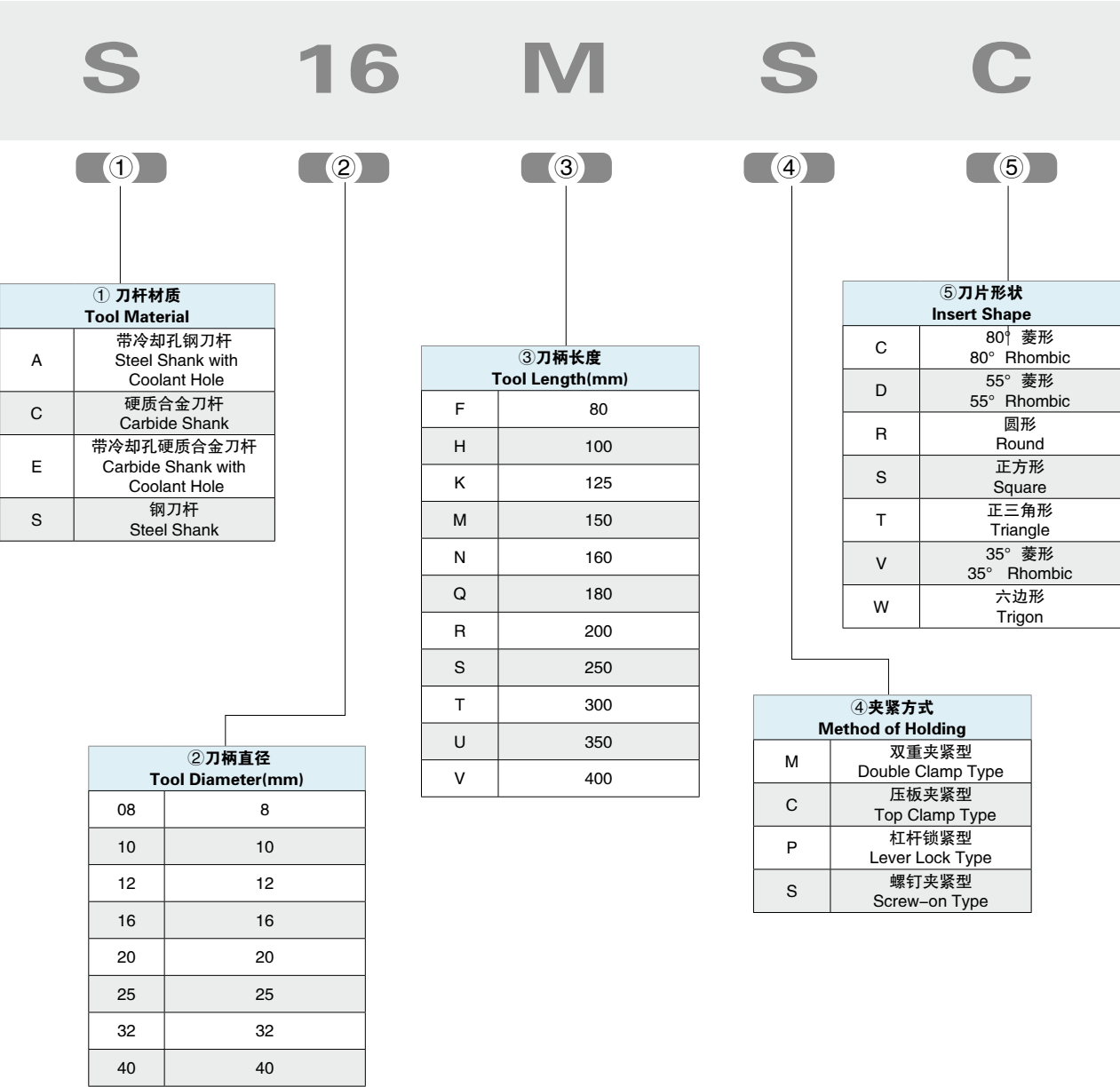
SWLCR



订货号 Ordering Code	基本尺寸 Dimensions (mm)						匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	h	b	L	L1	h1	f		螺钉 Screw	扳手 Wrench	
SWLCR1212F06	12	12	80	14	12	16	WC**06T3**	S60M4X8	T15P	○
SWLCR1616H06	16	16	100	14	16	20	WC**06T3**	S60M4X10	T15P	○
SWLCR2020K06	20	20	125	15	20	25	WC**06T3**	S60M4X10	T15P	○
SWLCR2525M06	25	25	150	17	25	32	WC**06T3**	S60M4X10	T15P	○

●标准库存 Stock ○需预定 Available upon Order

内孔车刀杆型号表示规则
Internal Boring Bars Identification System



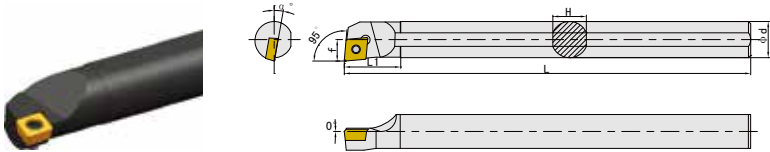
L C R 09

⑥主偏角 Cutting Edge Angle		⑦刀片后角 Insert Clearance Angle		⑧方向 Hand of Tool		⑨切削刃长度 Cutting Edge Length(mm)						
K	75°	C	7°	R	右手 Right Hand	刀片内接圆 (mm) Insert IC (mm)	刀片形状 Insert Shape					
L	95°	B	5°	L	左手 Left Hand		正方形 Square	正三 角形 Triangle	圆形 Round	80° 菱形 80° Rhombic	55° 菱形 55° Rhombic	35° 菱形 35° Rhombic
F	91°	N	0°			6	—	—	06	—	—	—
Q	107.5°	P	11°			6.35	—	11	—	06	07	11
U	93°					7.94	—	13	—	—	—	—
W	60°					8	—	—	08	—	—	—
X	120°					9.525	09	16	—	09	11	16
						10	—	—	10	—	—	—
						12	—	—	12	—	—	—
						12.7	—	22	—	12	15	—
						15.875	15	27	—	16	—	—
						16	—	—	16	—	—	—
						19.05	19	—	19	—	—	—
						20	—	—	20	—	—	—
						25	—	—	25	—	—	—
						25.4	25	—	—	—	—	—
						32	—	—	32	—	—	—

内孔车刀杆
Internal Boring Bars

NEW

SCLCR

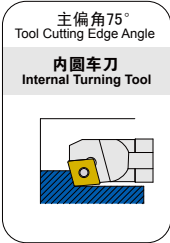
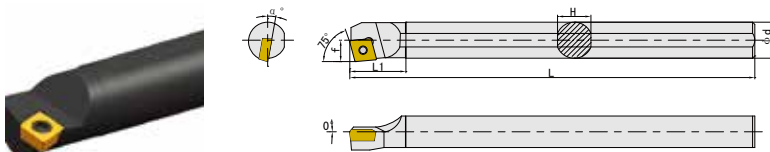


订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦD_{min}	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S08K-SCLCR06	10	8	5.5	125	12	7	13	CC**0602**	S60M2.5X6	T8P	●
S10K-SCLCR06	12	10	6	125	15	9	12	CC**0602**	S60M2.5X6	T8P	●
S12M-SCLCR06	14	12	7	150	16	11	10	CC**0602**	S60M2.5X6	T8P	●
S12M-SCLCR09	15	12	8	150	20	11	12	CC**09T3**	S60M4X8	T15P	●
S16Q-SCLCR09	18	16	9.5	180	25	14.8	10	CC**09T3**	S60M4X8	T15P	●
S20R-SCLCR09	22	20	11.5	200	28	18.4	8	CC**09T3**	S60M4X8	T15P	●
S25S-SCLCR09	27	25	14	250	30	23.4	6	CC**09T3**	S60M4X8	T15P	○
S25S-SCLCR12	28	25	14.5	250	35	23.4	8	CC**1204**	S60M5X12	T20P	○

●标准库存 Stock ○需预定 Available upon Order

NEW

SCKCR



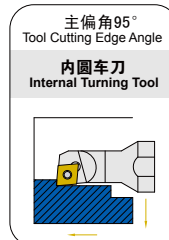
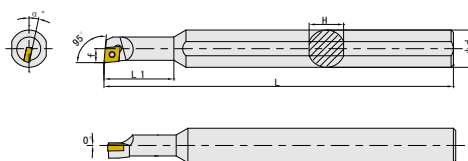
订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦD_{min}	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S08K-SCKCR06	10	8	5.5	125	13	7	13	CC**0602**	S60M2.5X6	T8P	●
S10K-SCKCR06	12	10	6	125	14	9	12	CC**0602**	S60M2.5X6	T8P	●
S12M-SCKCR06	14	12	7	150	16	11	10	CC**0602**	S60M2.5X6	T8P	●
S12M-SCKCR09	15	12	8	150	23	11	12	CC**09T3**	S60M4X8	T15P	●
S16Q-SCKCR09	18	16	9.5	180	25	14.8	10	CC**09T3**	S60M4X8	T15P	●
S20R-SCKCR09	22	20	11.5	200	28	18.4	8	CC**09T3**	S60M4X8	T15P	○
S25S-SCKCR09	27	25	14	250	30	23.4	6	CC**09T3**	S60M4X8	T15P	○

●标准库存 Stock ○需预定 Available upon Order

内孔车刀杆 Internal Boring Bars

NEW

SCLCR-A16

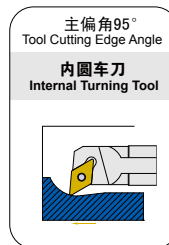
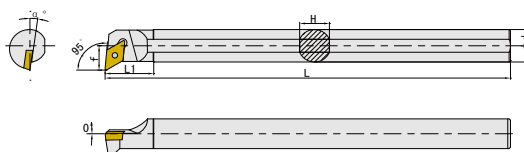


订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦDmin	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S07M-SCLCR06-A16	9	16	4.9	150	25	14.8	15	CC**0602**	S60M2.5X6	T8P	●
S08M-SCLCR06-A16	10	16	5.5	150	28	14.8	13	CC**0602**	S60M2.5X6	T8P	●
S10M-SCLCR06-A16	12	16	6	150	30	14.8	12	CC**0602**	S60M2.5X6	T8P	●
S12M-SCLCR06-A16	14	16	7	150	33	14.8	10	CC**0602**	S60M2.5X6	T8P	●

●标准库存 Stock ○需预定 Available upon Order

NEW

SDUCR



订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦDmin	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S10K-SDUCR07	14	10	8	125	16	9	10	DC**0702**	S60M2.5X6	T8P	●
S12M-SDUCR07	16	12	9	150	18	11	8	DC**0702**	S60M2.5X6	T8P	●
S16Q-SDUCR07	20	16	11	180	20	14.8	6	DC**0702**	S60M2.5X6	T8P	●
S16Q-SDUCR11	20	16	11	180	18	14.8	6	DC**11T3**	S60M4X8	T15P	●
S20R-SDUCR11	24	20	13	200	28	18.4	6	DC**11T3**	S60M4X8	T15P	●
S25S-SDUCR11	29	25	16	250	28	23.4	4	DC**11T3**	S60M4X8	T15P	○

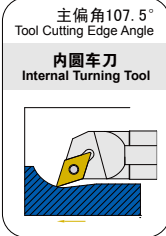
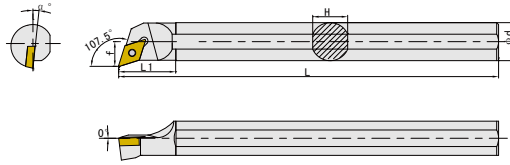
●标准库存 Stock ○需预定 Available upon Order

内孔车刀杆

Internal Boring Bars

NEW

SDQCR

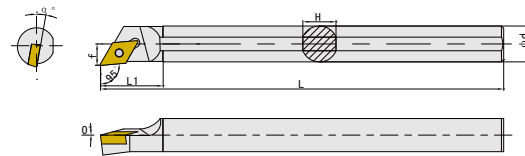


订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦD_{min}	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S10K-SDQCR07	13	10	7	125	18	9	10	DC**0702**	S60M2.5X6	T8P	●
S12M-SDQCR07	16	12	9	150	18	11	8	DC**0702**	S60M2.5X6	T8P	●
S16Q-SDQCR07	20	16	11	180	24	14.8	6	DC**0702**	S60M2.5X6	T8P	●
S16Q-SDQCR11	20	16	10.5	180	26	14.8	6	DC**11T3**	S60M4X8	T15P	●
S20R-SDQCR11	24	20	13	200	30	18.4	6	DC**11T3**	S60M4X8	T15P	●
S25S-SDQCR11	29	25	16	250	35	23.4	4	DC**11T3**	S60M4X8	T15P	○

●标准库存 Stock ○需预定 Available upon Order

NEW

SDXCR



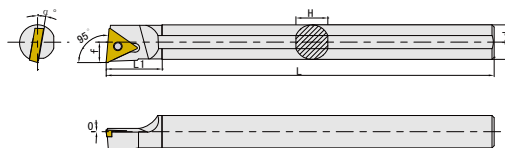
订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦD_{min}	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S08K-SDXCR07	10	8	5.5	125	18	7	12	DC**0702**	S60M2.5X6	T8P	●
S10K-SDXCR07	12	10	6	125	18	9	10	DC**0702**	S60M2.5X6	T8P	●
S12M-SDXCR07	14	12	7	150	21	11	8	DC**0702**	S60M2.5X6	T8P	●
S16Q-SDXCR07	18	16	9	180	22	14.8	6	DC**0702**	S60M2.5X6	T8P	●
S20R-SDXCR11	22	20	11.5	200	30	18.4	6	DC**11T3**	S60M4X8	T15P	○
S25S-SDXCR11	27	25	14	250	35	23.4	4	DC**11T3**	S60M4X8	T15P	○

●标准库存 Stock ○需预定 Available upon Order

内孔车刀杆 Internal Boring Bars

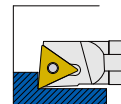
NEW

STUCR



主偏角95°
Tool Cutting Edge Angle

内圆车刀
Internal Turning Tool

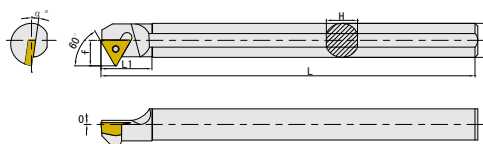


订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	Φ Dmin	Φ d	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S08K-STUCR09	10	8	5.5	125	14	7	15	TC**0902**	S60M2.5X6	T8P	●
S10K-STUCR09	12	10	6	125	15	9	13	TC**0902**	S60M2.5X6	T8P	●
S10K-STUCR11	12	10	6	125	17	9	12	TC**1102**	S60M2.5X6	T8P	●
S12M-STUCR11	14	12	7	150	20	11	10	TC**1102**	S60M2.5X6	T8P	●
S16Q-STUCR11	18	16	9	180	20	14.8	8	TC**1102**	S60M2.5X6	T8P	●
S20R-STUCR11	22	20	11	200	22	18.4	6	TC**1102**	S60M2.5X6	T8P	○
S20R-STUCR16	22	20	11.5	200	25	18.4	4	TC**16T3**	S60M4X8	T15P	○
S25S-STUCR16	28	25	14	250	30	23.4	6	TC**16T3**	S60M4X8	T15P	○

●标准库存 Stock ○需预定 Available upon Order

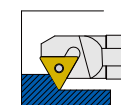
NEW

STWCR



主偏角60°
Tool Cutting Edge Angle

内圆车刀
Internal Turning Tool



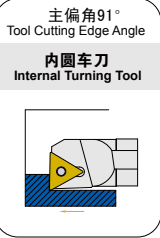
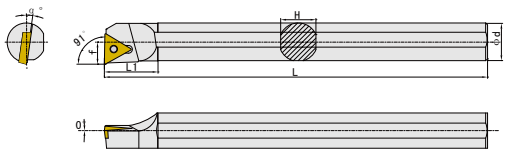
订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	Φ Dmin	Φ d	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S08K-STWCR09	11	8	6	125	15	7	15	TC**0902**	S60M2.5X6	T8P	●
S10K-STWCR11	14	10	8	125	18	9	10	TC**1102**	S60M2.5X7	T8P	●
S12M-STWCR11	16	12	9	150	18	11	8	TC**1102**	S60M2.5X7	T8P	●
S16Q-STWCR11	20	16	11	180	27	14.8	6	TC**1102**	S60M2.5X7	T8P	●
S20R-STWCR11	24	20	13	200	26	18.4	4	TC**1102**	S60M2.5X7	T8P	○
S20R-STWCR16	25	20	14.5	200	32	18.4	8	TC**16T3**	S60M4X8	T15P	○
S25S-STWCR16	30	25	17	250	30	23.4	6	TC**16T3**	S60M4X8	T15P	○

●标准库存 Stock ○需预定 Available upon Order

内孔车刀杆
Internal Boring Bars

NEW

STFCR

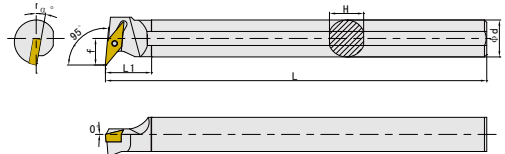


订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦD_{min}	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S08K-STFCR09	10	8	5.5	125	14	7	15	TC**0902**	S60M2.5X6	T8P	●
S10K-STFCR09	12	10	6	125	15	9	13	TC**0902**	S60M2.5X6	T8P	●
S12M-STFCR09	14	12	7	150	17	11	10	TC**0902**	S60M2.5X6	T8P	●
S12M-STFCR11	14	12	7	150	20	11	10	TC**1102**	S60M2.5X6	T8P	●
S16Q-STFCR11	18	16	9	180	20	14.8	8	TC**1102**	S60M2.5X6	T8P	●
S20R-STFCR11	22	20	11	200	22	18.4	6	TC**1102**	S60M2.5X6	T8P	○
S20R-STFCR16	22	20	11.5	200	25	18.4	4	TC**16T3**	S60M4X10	T15P	○
S25S-STFCR16	27	25	14	250	30	23.4	6	TC**16T3**	S60M4X10	T15P	○

●标准库存 Stock ○需预定 Available upon Order

NEW

SVUCR



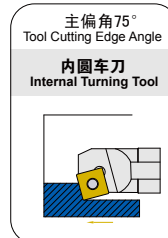
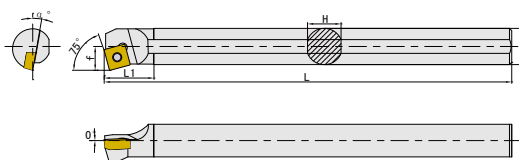
订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦD_{min}	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S16Q-SVUCR11	20	16	11.5	180	20	14.8	10	VC**1103**	S60M2.5X7	T8P	○
S20R-SVUCR11	25	20	14	200	25	18.4	8	VC**1103**	S60M2.5X7	T8P	○
S25S-SVUCR16	33	25	20	250	25	23.4	8	VC**1604**	S60M4X10	T15P	○

●标准库存 Stock ○需预定 Available upon Order

内孔车刀杆 Internal Boring Bars

NEW

SSKCR

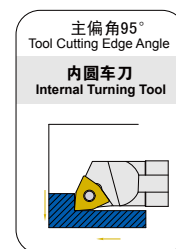
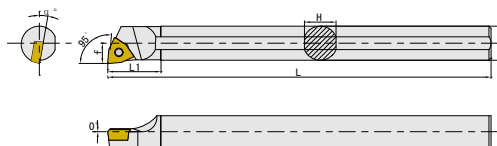


订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	Φ Dmin	Φ d	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S12M-SSKCR09	15	12	8.5	150	11	11	10	SC**09T3**	S60M4X8	T15P	●
S16Q-SSKCR09	19	16	10.5	180	22	14.8	10	SC**09T3**	S60M4X8	T15P	●
S20R-SSKCR09	23	20	12.5	200	25	18.4	8	SC**09T3**	S60M4X8	T15P	○
S25S-SSKCR12	28	25	15	250	40	23.4	6	SC**1204**	S60M4X10	T15P	○

●标准库存 Stock ○需预定 Available upon Order

NEW

SWLCR



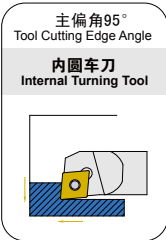
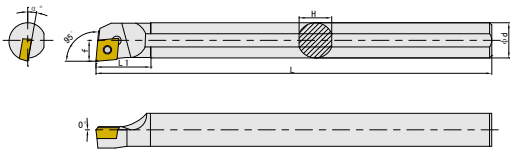
订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	Φ Dmin	Φ d	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S12M-SWLCR06	14	12	7.5	150	20	11	12	WC**06T3**	S60M4X10	T15P	○
S16Q-SWLCR06	18	16	9.5	180	25	14.8	10	WC**06T3**	S60M4X10	T15P	○
S20R-SWLCR06	22	20	11.5	200	28	18.4	8	WC**06T3**	S60M4X10	T15P	○
S25S-SWLCR06	27	25	14	250	30	23.4	6	WC**06T3**	S60M4X10	T15P	○

●标准库存 Stock ○需预定 Available upon Order

内孔车刀杆
Internal Boring Bars

NEW

SCLPR



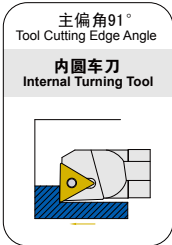
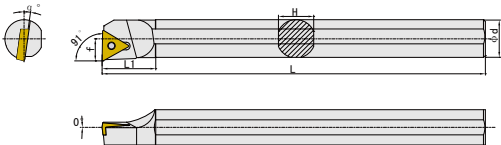
订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦD_{min}	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S08K-SCLPR06	10	8	5.5	125	12	7	13	CP**0602**	S60M2.5X6	T8P	○
S10K-SCLPR06	12	10	6	125	15	9	12	CP**0602**	S60M2.5X6	T8P	○
S12M-SCLPR06	14	12	7	150	16	11	10	CP**0602**	S60M2.5X6	T8P	○
S12M-SCLPR09	15	12	8	150	20	11	12	CP**09T3**	S60M4X8	T15P	○
S16Q-SCLPR09	18	16	9.5	180	25	14.8	10	CP**09T3**	S60M4X8	T15P	○
S20R-SCLPR09	22	20	11.5	200	28	18.4	8	CP**09T3**	S60M4X8	T15P	○
S25S-SCLPR09	27	25	14	250	30	23.4	6	CP**09T3**	S60M4X8	T15P	○

●标准库存 Stock ○需预定 Available upon Order

内孔车刀杆
Internal Boring Bars

NEW

STFPR



订货号 Ordering Code	基本尺寸 Dimensions (mm)							匹配刀片 Gauge Insert	配件 Spare Parts		库存 Stock
	ΦD_{min}	Φd	f	L	L1	H	α°		螺钉 Screw	扳手 Wrench	
S10K-STFPR11	12	10	6	125	17	9	12	TP**1102**	S60M2.5X6	T8P	○
S12M-STFPR11	14	12	7	150	20	11	10	TP**1102**	S60M2.5X6	T8P	○
S16Q-STFPR11	18	16	9	180	20	14.8	8	TP**1102**	S60M2.5X6	T8P	○
S20R-STFPR11	22	20	11	200	22	18.4	6	TP**1102**	S60M2.5X6	T8P	○
S20R-STFPR16	22	20	11.5	200	25	18.4	4	TP**16T3**	S60M4X10	T15P	○
S25S-STFPR16	27	25	14	250	30	23.4	6	TP**16T3**	S60M4X10	T15P	○

●标准库存 Stock ○需预定 Available upon Order

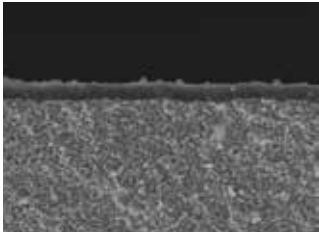
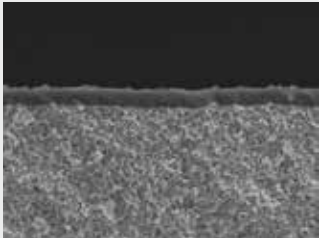
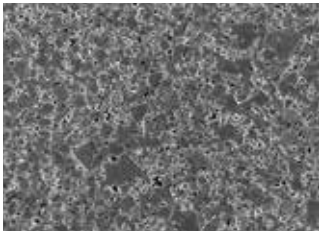
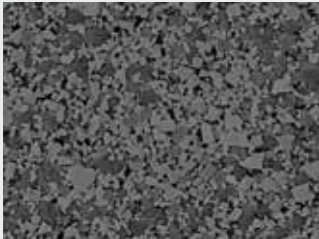
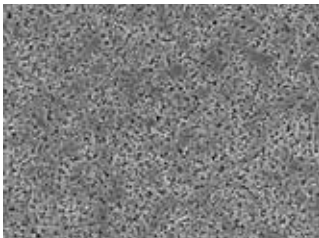


MILLING INSERTS

铣削刀片

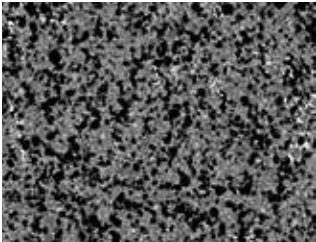
铣削刀片牌号简介

Milling Insert Grades

牌号 Grade	加工类型 Cutting Range	涂层构成 Coating	特点 Advantages
GA4230	半精、粗加工 Semi-finishing and Roughing		全新升级TiAlN+涂层具有优异的耐热性和耐氧化性，与高耐磨损性与耐破损性的硬质合金基体结合强度高，实现不同工况下的稳定加工。 - The new upgrade TiAlN+ coating has excellent heat resistance and oxidation resistance. - Due to the high adhesion strength to the substrate, GA4230 can achieve a reliable tool life in various cutting conditions.
GA4225	半精、轻微粗加工 Semi-finishing to Light Roughing		纳米结构的AlCrN涂层与微细晶粒硬质合金基体相结合，适合中等到低速工况下，钢材、铸铁等材料加工。 - Nano-structure AlCrN coating on super micro-grain carbide. - Application: Suitable for medium milling of P&K materials under dry and wet cutting conditions.
GK0115	半精加工 Semi-finishing		非涂层硬质合金牌号，具有良好的耐磨性和韧性，适合于中等到低速工况下各类工件的铣削加工。 - Uncoated cemented carbides grade for milling. - Application: Suitable for general purpose cutting of various types of workpiece material.
GP0135	半精、粗加工 Semi-finishing and Roughing		非涂层硬质合金牌号，富含添加剂，具有良好的耐磨性和韧性，适合于中等到低速工况下钢材的铣削加工。 - Uncoated cemented carbides grade for milling. - Application: Suitable for general purpose cutting of steel workpiece material.
GA0115	半精加工 Semi-finishing		非涂层细晶粒硬质合金牌号，耐磨性优异，主要适用于锋利刃的铝合金铣以及部分钢材的铣削加工。 - Uncoated cemented carbides grade for milling. - Application: Suitable for general purpose cutting of AL workpiece material and steel workpiece material.

铣削刀片牌号简介

Milling Insert Grades

牌号 Grade	加工类型 Cutting Range	涂层构成 Coating	特点 Advantages
GP01TM	精、半精加工 Finishing and Semi-finishing		无涂层金属陶瓷铣削牌号，优良的工艺处理后，具备高韧性、高耐磨性以及优异的抗崩刃性，适用于各类材料的的铣削加工，主推钢材加工。 • Uncoated cemented grade for milling • Application: Suitable for general purpose cutting of various types of workpiece material.

铣削牌号应用一览表

Application Summary of Milling Grades

工件材质 Workpiece	ISO	涂层硬质合金 Coated		硬质合金 Uncoated	金属陶瓷 Cermet
		CVD	PVD		
P 钢 Steel	01				GP01TM
	10			GA0115	GP01TM
	20		GA4225 GA4230	GA0115	
	30			GP0135	
	40				
	50				
M 不锈钢 Stainless Steel	01				GP01TM
	10	GM2125	GA4225		GP01TM
	20		GA4230		
	30				
	40				
	50				
K 铸铁 Cast Iron	01				GP01TM
	10			GK0115	GP01TM
	20		GK4125 GA4230		
	30				
	40				
	50				
N 有色金属 Nonferrous Metal	01				
	10			GA0115 GN9125	
	20				
	30				
	40				
	50				
S 耐热合金、钛合金 Heat-resistant Alloy and Titanium Alloy	01	GM2125			
	10		GA4230		
	20				
	30				
	40				
	50				
H 高硬度材料 High Hardness Material	01				
	10		GA4230		
	20				
	30				

铣削刀片加工工况汇总
Summary for the Working Conditions of Milling Inserts

工件材质 Workpiece	槽型 Geometry	加工工况 Working conditions		
				
		稳定切削 Continuous	一般切削 Light Interrupted	不稳定切削 Interrupted
	PL*(SEET)		GA4225/GA4230/GA0115/GP0135/GP01TM	
	PL(SEET)		GA4225/GA4230/GA0115/GP0135/GP01TM	
	PM(SEET)		GA4225/GA4230/GA0115/GP0135/GP01TM	GA4225/GA4230
	PH(SEET)		GA4225/GA4230/GA0115/GP0135	GA4225/GA4230
	KM(SEET)		GA4225/GA4230/GA0115/GP0135	GA4225/GA4230
	KH(SEET)		GA4225/GA4230	GA4225/GA4230
	GL(ODKT)	GA4225/GA4230	GA4225/GA4230	
	GM(ODKT)		GA4225/GA4230	GA4225/GA4230
	GH(ODKT)		GA4225/GA4230	GA4225/GA4230
	DM(OFKT)		GA4225/GA4230	GA4225/GA4230
	BL(RDET)	GA4225/GA4230		
	GM(RDET)		GA4225/GA4230	GA4225/GA4230
	MM(RDET)		GA4225/GA4230	GA4225/GA4230
	BM(RDET)			GA4225/GA4230
	PM(RDET)			GA4225/GA4230
	GL(RPET)	GA4225/GA4230		
	GM(RPET)		GA4225/GA4230/GM2125	GA4225/GA4230/GM2125
	PM(APMT)		GA4225/GA4230/GP01TM	GA4225/GA4230
	PR(APMT)		GA4225/GA4230	GA4225/GA4230
	PM(CNEN)		GA4225/GA4230	GA4225/GA4230
	PK(CNEN)		GA4225/GA4230	GA4225/GA4230
	WB(ODKT)	GA4225/GA4230	GA4225/GA4230	
	PL*(SEET)		GA4225/GA4230/GM2125	
	PL(SEET)		GA4225/GA4230/GM2125	
	PM(SEET)		GA4225/GA4230/GM2125	
	MR(TPER)		GM2125	
	EM(RCET)		GA4225/GA4230/GM2125/GP01TM	GA4225/GA4230/GM2125
	MM(RCET)		GA4225/GA4230/GM2125/GP01TM	GA4225/GA4230/GM2125
	KM(RCET)		GA4225/GA4230/GM2125	
	KH(RCET)		GA4225/GA4230/GM2125	
	GL(ODKT)	GA4225/GA4230	GA4225/GA4230	
	GM(ODKT)		GA4225/GA4230	GA4225/GA4230
	GH(ODKT)		GA4225/GA4230	GA4225/GA4230
	WB(ODKT)	GA4225/GA4230	GA4225/GA4230	
	DM(OFKT)		GA4225/GA4230	GA4225/GA4230

铣削刀片加工工况汇总

Summary for the Working Conditions of Milling Inserts

工件材质 Workpiece	槽型 Geometry	加工工况 Working conditions		
				
		稳定切削 Continuous	一般切削 Light Interrupted	不稳定切削 Interrupted
M	BL(RDET)	GA4225/GA4230		
	GL(RPET)	GA4225/GA4230		
	GM(RPET)		GA4225/GA4230/GM2125	GA4225/GA4230/GM2125
	SM(RPET)		GM2125	
K	PL(SEET)	GP01TM/GK1105	GA4225/GA4230/GA0115/GK4125/ GK0115	
	PM(SEET)	GP01TM/GK1105	GA4225/GA4230/GA0115/GK4125/ GK0115	GK4125/GA4230
	PH(SEET)	GP01TM/GK1105	GA4225/GA4230/GA0115/GK4125/ GK0115	GK4125/GA4230
	KM(SEET)	GP01TM/GK1105	GA4225/GA4230/GA0115/GK4125/ GK0115	GK4125/GA4230
	KH(SEET)	GP01TM/GK1105	GA4225/GA4230/GA0115/GK4125/ GK0115	GK4125/GA4230
	KF(HNEX)	GK1105	GK4125	GK4125
	KM(HNEX)	GK1105	GK4125	GK4125
	KR(HNEX)	GK1105	GK4125	GK4125
	WC(HNEX)	GK1105	GK4125	GK4125
	GL(ODKT)	GA4225/GA4230	GA4225/GA4230	
	GM(ODKT)		GA4225/GA4230/GK4125	GA4225/GA4230/GK4125
	GH(ODKT)		GA4225/GA4230	GA4225/GA4230
	WB(ODKT)	GA4225/GA4230	GA4225/GA4230	
	DM(OFKT)		GA4225/GA4230	GA4225/GA4230
	NL(ODKT)	GK0115		
	PM(CNEU)		GA4225/GA4230/GK4125	GA4225/GA4230/GK4125
	PK(CNEU)		GA4225/GA4230/GK4125	GA4225/GA4230/GK4125
N	AL(SEET)	GA0115/GN9125		
	PL * (SEET)	GA0115/GN9125		
	AL(ODKT)	GN9125		
S	PL(SEET)		GA4230/GM2125	
	PM(SEET)		GA4230/GM2125	
	PH(SEET)		GA4230/GM2125	
	KM(SEET)		GA4230/GM2125	
	MR(TPER)		GM2125	
	EM(RCET)		GA4225/GA4230/GM2125/GP01TM	GA4225/GA4230/GM2125
	MM(RCET)		GA4225/GA4230/GM2125/GP01TM	GA4225/GA4230/GM2125
	KM(RCET)		GA4225/GA4230/GM2125	GA4225/GA4230/GM2125
	(GL)ODKT	GA4230	GA4230	
	GM(RPET)		GA4225/GA4230/GM2125	GA4225/GA4230/GM2125
	SM(RPET)		GM2125	

ISO铣削刀片型号表示规则

ISO Milling Indexable Inserts Identification System

代号 Symbol	形状 Shape	刀尖角 (度) Corner Angle	图形 Figure	代号 Symbol	后角 (度) Relief Angle	代号 Symbol	公差 Tolerance (mm)			公差 Tolerance (inch)			
H	正六边形 Hexagon	120°		A	3°	A	刀尖高 Corner Height(m)	厚度 Thickness(s)	内切圆 I.C.Size(Ød)	刀尖高 Corner Height(m)	厚度 Thickness(s)	内切圆 I.C.Size(Ød)	
O	正八边形 Octagon	135°		B	5°	F	± 0.005	± 0.025	± 0.025	± 0.0002	± 0.001	± 0.001	
P	正五边形 Pentagon	108°		C	7°	C	± 0.005	± 0.025	± 0.013	± 0.0002	± 0.001	± 0.0005	
S	正方形 Square	90°		D	15°	H	± 0.013	± 0.025	± 0.025	± 0.0005	± 0.001	± 0.001	
T	正三角形 Triangle	60°		E	20°	E	± 0.025	± 0.025	± 0.025	± 0.001	± 0.001	± 0.001	
C	菱形 Rhombic	80°		G	30°	G	± 0.025	± 0.13	± 0.025	± 0.001	± 0.005	± 0.001	
D		55°		N	0°	J	± 0.005	± 0.025	± 0.05~ ± 0.13	± 0.0002	± 0.001	± 0.002~ ± 0.005	
E		75°		P	11°	K	± 0.013	± 0.025	± 0.05~ ± 0.13	± 0.0005	± 0.001	± 0.002~ ± 0.005	
F		50°		 ②后角代号 Major Cutting Edge Clearance Angle			L	± 0.025	± 0.025	± 0.05~ ± 0.13	± 0.001	± 0.001	± 0.002~ ± 0.005
M		86°					M	± 0.08~ ± 0.18	± 0.13	± 0.05~ ± 0.13	± 0.003~ ± 0.007	± 0.005	± 0.002~ ± 0.005
V		35°					N	± 0.08~ ± 0.18	± 0.025	± 0.05~ ± 0.13	± 0.003~ ± 0.007	± 0.001	± 0.002~ ± 0.005
W	六边形 Trigon	80°		U	± 0.13~ ± 0.38	± 0.13	± 0.08~ ± 0.25	± 0.005~ ± 0.015	± 0.005	± 0.003~ ± 0.01			
L	长方形 Rectangle	90°		③精度代号 Tolerances, mm inch									
A	平行四边形 Parallelogram	85°											
B		82°											
K		55°											
R	圆形 Round	—											
①形状代号 Inserts Shape													

①

S

R

①

②

E

D

②

③

E

E

③

④

T

T

④

⑤

13

12

⑤

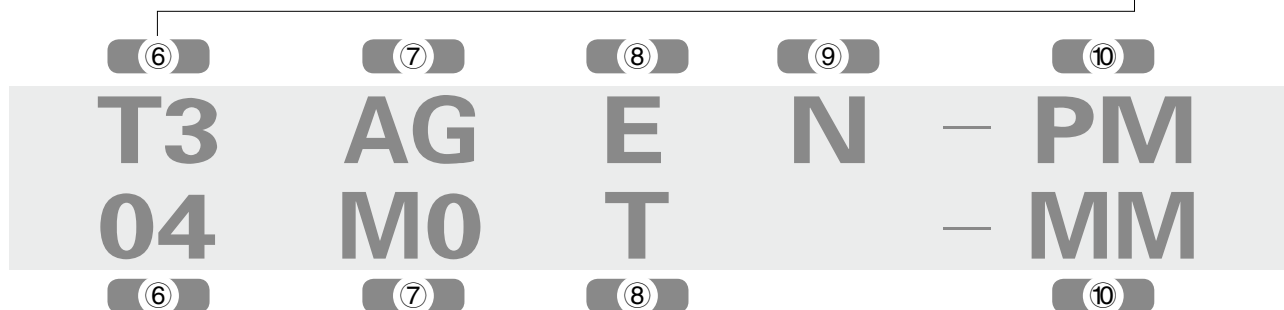
④断屑槽 · 孔代号 Chipbreaker and \ for fixing type					⑤切屑刃长度代号 Cutting Edge Length (mm)																					
代号 Symbol	有无孔 Hole	孔的形状 Hole Shape	断屑槽 Chipbreaker	形状 Shape		代号 Symbol	尺寸 Length		代号 Symbol	尺寸 Length		代号 Symbol	尺寸 Length		代号 Symbol	尺寸 Length		代号 Symbol	尺寸 Length		代号 Symbol	尺寸 Length		代号 Symbol	尺寸 Length	内切圆 直径 I.C.Size (mm)
N	无 Without	—	无 Without																							3.97
R			单面 Single-sided			03	3.97	03	4.0								06	6.9	4	4.8						4.76
F			双面 Double-sided			04	4.76	04	4.8								08	8.2	5	5.8						5
A	有 With	圆柱孔 With Hole	无 Without			05	5.56	05	5.6	03	3.8	09	9.6	6	6.8											5.56
M			单面 Single-sided			06	6.35	06	6.5	04	4.3	11	11	7	7.8	11	11.2								6.35	
G			双面 Double-sided			07	7.94	08	8.1	05	5.4	13	13.8	9	9.7										7.94	
W		部分圆柱孔单面 40° ~60° With hole and one countersink 40° ~60°	无 Without			08	8																			8
T			单面 Single-sided			09	9.525	09	9.7	06	6.5	16	16.5	11	11.6	16	16.6	16	19.7	9.525					10	
Q		部分圆柱孔双面 40° ~60° With hole and two countersinks 40° ~60°	无 Without			10	10																			12
U			双面 Double-sided			12	12.7	12	12.9	08	8.7	22	22	15	15.5	22	22.1								12.7	
B		部分圆柱孔单面 70° ~90° With hole and one countersink 70° ~90°	无 Without			15	15.875	16	16.1	10	10.9	27	27.5	19	19.4											15.875
H			单面 Single-sided			16	16																			16
C		部分圆柱孔双面 70° ~90° With hole and two countersinks 70° ~90°	无 Without			19	19.05	19	19.3	13	13	33	33	23	23.3											19.05
J			双面 Double-sided			20	20																			20
X		—	—	—				22	22.225	22	22.6						38	38.5	27	27.1						22.225
						25	25																		25	
						25	25.4	25	15.8						44	44	31	31							25.4	
						31	31.75	31	32	32.2					55	55	38	38.8							31.75	
						31	32																		32	

适用刀片形状: H,O,P,S,T,C,E,M,W,R Insert Shape: H,O,P,S,T,C,E,M,W,R									
标准 内切圆 I.C. Size (mm)	内切圆(Ød)的公差 Tolerance of I.C. Size(Ød)(mm)		刀尖高(m)的公差 Tolerance of Corner Height(m)(mm)		标准 内切圆 I.C. Size (inch)	内切圆(Ød)的公差 Tolerance of I.C. Size(Ød)(mm)		刀尖高(m)的公差 Tolerance of Corner Height(m)(mm)	
	J,K,L, M,N(级)	U (级)	M,N(级)	U (级)		Class J,K, L,M,N	Class U	Class J,K, L,M,N	Class U
6.35	± 0.05	± 0.08	± 0.08	± 0.13	0.250	± 0.002	± 0.003	± 0.003	± 0.005
9.525					0.375				
12.7	± 0.08	± 0.13	± 0.13	± 0.2	0.500	± 0.003	± 0.005	± 0.005	± 0.008
15.875					0.625				
19.05	± 0.1	± 0.18	± 0.15	± 0.27	0.750	± 0.004	± 0.007	± 0.006	± 0.011
25.4					1.000				
31.75	± 0.15	± 0.25	± 0.18	± 0.38	1.250	± 0.005	± 0.010	± 0.007	± 0.015
32					1.260				

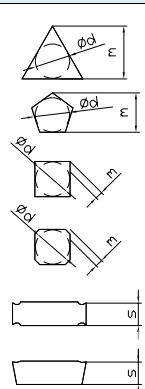
适用刀片形状: D Insert Shape: D					
内切圆Ød Inscribed Circle Size		内切圆的公差 Tolerance of I.C. Size		刀尖高的公差 Tolerance of Corner Height	
mm	in	mm	in	mm	in
6.35	0.250	± 0.05	± 0.002	± 0.11	± 0.004
9.525	0.375	± 0.05	± 0.002	± 0.11	± 0.004
12.7	0.500	± 0.08	± 0.003	± 0.15	± 0.006
15.875	0.625	± 0.10	± 0.004	± 0.18	± 0.007
19.05	0.750	± 0.10	± 0.004	± 0.18	± 0.007

适用刀片形状: V Insert Shape: V					
内切圆Ød Inscribed Circle Size		内切圆的公差 Tolerance of I.C. Size		刀尖高的公差 Tolerance of Corner Height	
mm	in	mm	in	mm	in
6.35	0.250	± 0.05	± 0.002	± 0.15	± 0.006
9.525	0.375	± 0.05	± 0.002	± 0.15	± 0.006
12.7	0.500	± 0.08	± 0.003	± 0.20	± 0.008
15.875	0.625	± 0.10	± 0.004	± 0.27	± 0.011
19.05	0.750	± 0.10	± 0.004	± 0.27	± 0.011

代号 Symbol	厚度 Thickness(mm)
01	1.59
T1	1.98
02	2.38
T2	2.78
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52
⑥厚度代号 Insert Thickness	



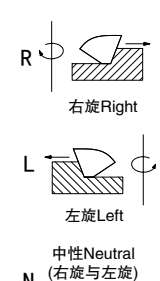
内切圆 Inscribed Circle Size(Ød)
厚度 Thickness(s)
刀尖高 Corner Height(m)



⑦修光刃角度或形状刀尖号 Wiper Angle or Nose Radius						
I				II		
代号 Symbol	余偏角 Approach Angle	主偏角 Cutting Edge Angle	代号 Symbol	修光刃 后角 Relief Angle of Wiper	圆弧形 半径 Corner- R ε (mm)	
A	45°	45°	D	15°	00	
D	30°	60°	E	20°	02	
E	15°	75°	F	25°	04	
F	5°	85°	G	30°	08	
P	0°	90°	P	11°	12	
Z	其他角度 Others		Z	其他角度 Others	16	
修光刃类型 Wiper				20	2.0	
				24	2.4	
WA	直线型 Linear			A	28	
WB	大圆弧型 Largearc-shaped			B	32	
WC	大圆弧型 Convexarc- shaped			C	圆刀片圆弧半径 Nose Radius for Insert	
WZ	其他修光刃型 Others					
			00 英制尺寸 Inch Size M0 公制尺寸 Metric Size			

⑧主切削刃代号 Edge Preparation		
代号 Symbol	切削刃类型 Description	形状 Shape
F	锋利刃 Sharp Edge	
E	圆弧刃 R-Honed	
T	负倒棱角 Chamfer	
S	复合顿化刃 Chamfer and R-Honed	
⑩断屑槽代号 Chipbreaker Symbol		
代号 Symbol	工况 Machining Condition	
PL	钢材轻切削 Light Cutting for Steel	
PM	钢材中切削 Medium Cutting for Steel	
PR	钢材重切削 Rough Cutting for Steel	
KM	铸铁中切削 Medium Cutting for Cast Iron	
KR	铸铁重切削 Rough Cutting for Cast Iron	
MM	不锈钢中切削 Medium Cutting for Stainless Steel	
详细参见 Detailed Reference: 铣削断屑槽命名规则 Designation System for Milling Chipbreaker		

⑨切削方向代号 Direction	
代号 Symbol	方向 Hand
R	右 Right
L	左 Left
N	无 Neutral



铣削刀片一览表
Features of Milling Inserts

面铣刀片 Face Milling Inserts

						
SBEX	SEEN	SEEX				
Page84	Page84	Page85				
						
SPEN	SPEN-WC	SPKN SPMN	SPEN-W	SPER-MR	SPNR	SPCW
Page85	Page85	Page86	Page86	Page87	Page88	Page88
						
SEET-PL *	SEET-PL	SEET-PM	SEET-KM	SEET-PH	SEET-KH	SEET-AL
Page89	Page89	Page89	Page89	Page89	Page89	Page89
						
HNEX-KF	HNEX-KM	HNEX-KR	HNEX-WC			
Page90	Page90	Page90	Page90			
						
ODKT-GL	ODKT-GM	ODKT-GH	ODKT-AL	ODKT-NL	ODKW-WB	OFKT-DM
Page91	Page91	Page91	Page91	Page91	Page91	Page92
						
TPKN	TPER-MR	TPNR	TPKR			
Page92	Page93	Page93	Page94			

仿形铣刀片

Profiling Milling Inserts

						
RCET-EM	RCET-EM	RCET-KM	RCET-MM	RCET-KH		
Page95	Page95	Page95	Page95	Page95		
						
RDET-BL	RDET-GM RDMT-GM	RDET-MM	RDEW-BM RDMW-BM	RDEW	RDEW RDMW	
Page96	Page96	Page96	Page97	Page97	Page97	
						
RPET-GL	RPET-GM RPMT-GM	RPET-GM	RPET-SM	RPET-GH	RPEW RPMW	
Page98	Page98	Page98	Page98	Page98	Page99	

方肩铣刀片

Shouldering Inserts

						
APMT-PM	APMT-PR	APGT-AL	XPHT			
Page100	Page100	Page100	Page101			

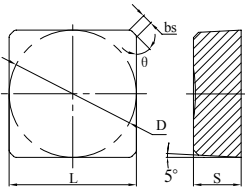
三面刃铣削刀片

Side and Face Milling Inserts

						
CNEU-PM	CNEU-KM					
Page102	Page102					

面铣削刀片
Face Milling Inserts

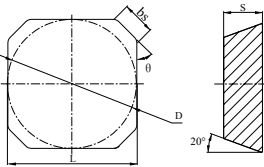
SBEX



订货号 Ordering Code	尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
	L	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SBEX1204ZZFN	12.7	12.7	4.76	45°	0.8						●			

●标准库存 Stock ○需预定 Available upon Order

SEEN

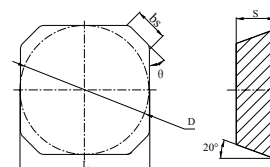


订货号 Ordering Code	尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
	L	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SEEN1203AFTN	12.7	12.7	3.18	45°	2.3							●		●
	SEEN1204AFTN	12.7	12.7	4.76	45°	2.4					●		○		○
	SEEN1504AFTN	15.875	15.875	4.76	45°	2.4		○			○		○		○

●标准库存 Stock ○需预定 Available upon Order

面铣削刀片 Face Milling Inserts

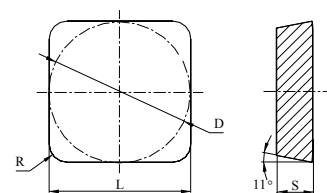
SEEX



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SEEX1203AFTN	12.7	12.7	3.18	45°	3		○			○					

●标准库存 Stock ○需预定 Available upon Order

SPEN

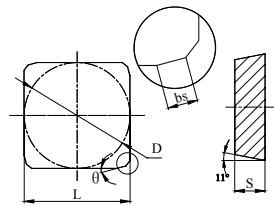


订货号 Ordering Code		尺寸 Dimensions(mm)				涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SPEN150420T	15.875	15.875	4.76	2.0						○				
	SPEN150430T	15.875	15.875	4.76	3.0						●		○		
	SPEN190424T	19.05	19.05	4.76	2.4						○				
	SPEN250730T	25.4	25.4	7.94	3.0						●				
	SPEN190424-WC	19.05	19.05	4.76	2.4						○				

●标准库存 Stock ○需预定 Available upon Order

面铣削刀片
Face Milling Inserts

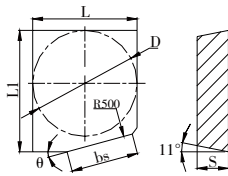
SPKN



订货号 Ordering Code	尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
	L	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SPKN1203EDL	12.7	12.7	3.18	15°	1.4						○	○	○	
	SPKN1203EDTL	12.7	12.7	3.18	15°	1.4						○	○	○	
	SPKN1203EDR	12.7	12.7	3.18	15°	1.4					●	○	●		○
	SPKN1203EDTR	12.7	12.7	3.18	15°	1.4					●	○	●		
	SPKN1504EDL	15.875	15.875	4.76	15°	1.4					●	○	●		
	SPKN1504EDTL	15.875	15.875	4.76	15°	1.4					●	○	●		
	SPKN1504EDR	15.875	15.875	4.76	15°	1.4					●	○	●		○
	SPKN1504EDTR	15.875	15.875	4.76	15°	1.4					●	○	●		○
	SPKN1905EDL	19.05	19.05	5.56	15°	2.7					○	○	○		
	SPKN1905EDTL	19.05	19.05	5.56	15°	2.7					○	○	○		
	SPKN1905EDR	19.05	19.05	5.56	15°	2.7					●	○	●		
	SPKN1905EDTR	19.05	19.05	5.56	15°	2.7					●	○	●		

●标准库存 Stock ○需预定 Available upon Order

SPEN-W



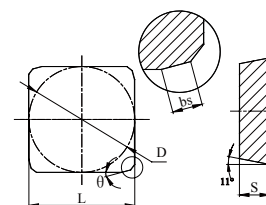
订货号 Ordering Code	尺寸 Dimensions(mm)						涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
	L	L1	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SPEN1504EDR-W	15.875	18.2	15.875	4.76	15°	10.2							○		
	SPEN1504EDL-W	15.875	18.2	15.875	4.76	15°	10.2							○		

●标准库存 Stock ○需预定 Available upon Order

面铣削刀片

Face Milling Inserts

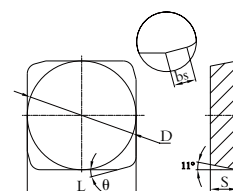
SPMN



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
NEW	SPMN1504EDR	15.875	15.875	4.76	15°	1.4								●		
	SPMN1504EDL	15.875	15.875	4.76	15°	1.4								○		

●标准库存 Stock ○需预定 Available upon Order

SPER

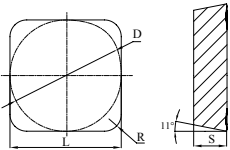


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SPER1203EDTR-MR	12.7	12.7	3.18	15°	1.3			●							
	SPER1203EDTL-MR	12.7	12.7	3.18	15°	1.3			●							

●标准库存 Stock ○需预定 Available upon Order

面铣削刀片
Face Milling Inserts

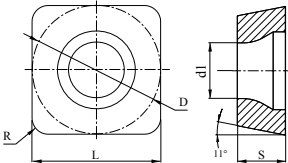
SPNR



订货号 Ordering Code		尺寸 Dimensions(mm)				涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SPNR150424T	15.875	15.875	4.76	2.4			●							

●标准库存 Stock ○需预定 Available upon Order

SPCW

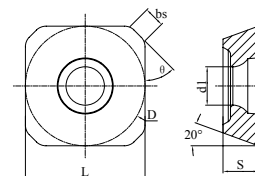


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	d1	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SPCW120412	12.7	12.7	4.76	5.5	1.2						●				○
	SPCW120416	12.7	12.7	4.76	5.5	1.6	●	○			○	●				○
	SPCW150516	15.875	15.875	5.56	5.5	1.6						○				

●标准库存 Stock ○需预定 Available upon Order

面铣削刀片 Face Milling Inserts

SEET

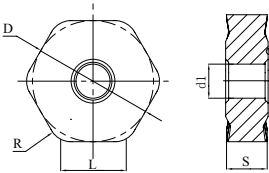


订货号 Ordering Code		尺寸 Dimensions(mm)						涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	d1	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SEET1204AFEN-PL*	12.7	12.7	4.76	5.5	45°	2.5	○		○						○	●
	SEET13T3AGEN-PL	13.4	13.4	3.97	4.4	45°	1.7	○	●								
	SEET13T3AGEN-PM	13.4	13.4	3.97	4.4	45°	1.2	○	●	○							○
	SEET13T3AGSN-KM	13.4	13.4	3.97	4.4	45°	1.3	○	●			○					
	SEET13T3AGSN-PH	13.4	13.4	3.97	4.4	45°	1.3	○	●								
	SEET13T3AGSN-KH	13.4	13.4	3.97	4.4	45°	1.3	○	●			○					
	SEET13T3AGFN-AL	13.4	13.4	3.97	4.4	45°	2.2						●				

●标准库存 Stock ○需预定 Available upon Order
*非标准规格 Tailormade

面铣削刀片
Face Milling Inserts

HNEX

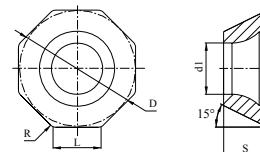


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	d1	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	HNEX090520-KF	9.5	16.2	5.56	-	2.0				○	●					
	HNEX090510-KF	9.5	16.2	5.56	-	1.0				○	○					
	HNEX090520-KM	9.5	16.2	5.56	-	2.0				○	○					
	HNEX090516-KR	9.5	16.2	5.56	4.56	1.6				○	●					
	HNEX090530-KR	9.5	16.2	5.56	4.56	3.0				○	○					
	HNEX090502-WC	9.5	15.875	5.56	-	0.2				○	●					

●标准库存 Stock ○需预定 Available upon Order

面铣削刀片 Face Milling Inserts

ODKT

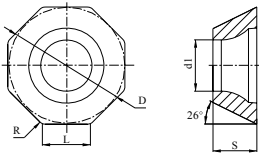


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	d1	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
NEW 	ODKT060508-GL	6.5	15.875	5.56	5.56	0.8	○	○								
	ODKT060508-GM	6.5	15.875	5.56	5.56	0.8	○	●			●					
NEW 	ODKT060508-GH	6.5	15.875	5.56	5.56	0.8	○	○								
NEW 	ODKT060508-AL	6.5	15.875	5.56	5.56	0.8									○	
	ODKT060508-NL	6.5	15.875	5.56	5.56	0.8								●		
NEW 	ODKW060508-WB	6.5	15.875	5.56	5.56	0.8	○	○								

●标准库存 Stock ○需预定 Available upon Order

面铣削刀片
Face Milling Inserts

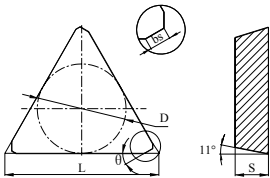
OFKT



订货号 Ordering Code	尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
	L	D	S	d1	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	OFKT05T3AFTN-DM	5.2	12.7	3.97	4.4	0.5	○	○							

●标准库存 Stock ○需预定 Available upon Order

TPKN

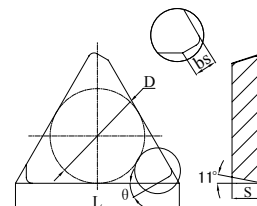


订货号 Ordering Code	尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
	L	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	TPKN1603PDL	16.5	9.525	3.18	30°	1.3					○	○	○		
	TPKN1603PDTL	16.5	9.525	3.18	30°	1.3					○	○	○		
	TPKN1603PDR	16.5	9.525	3.18	30°	1.3					●	○	●		
	TPKN1603PDTR	16.5	9.525	3.18	30°	1.3					●	○	●		
	TPKN2204PDL	22	12.7	4.76	30°	1.4					○	○	○		
	TPKN2204PDTL	22	12.7	4.76	30°	1.4					○	○	○		
	TPKN2204PDR	22	12.7	4.76	30°	1.4					●	○	●		
	TPKN2204PDTR	22	12.7	4.76	30°	1.4					●	○	●		

●标准库存 Stock ○需预定 Available upon Order

面铣削刀片 Face Milling Inserts

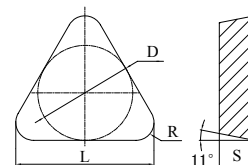
TPER



订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	TPER1603PDTR-MR	16.5	9.525	3.18	30°	1.3			○							
	TPER1603PDTL-MR	16.5	9.525	3.18	30°	1.3			○							

● 标准库存 Stock ○ 需预定 Available upon Order

TPNR

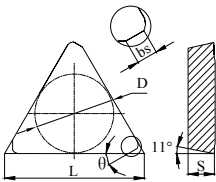


订货号 Ordering Code		尺寸 Dimensions(mm)				涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	TPNR220424T	18.5	12.7	4.76	2.4			●							

● 标准库存 Stock ○ 需预定 Available upon Order

面铣削刀片
Face Milling Inserts

TPKR

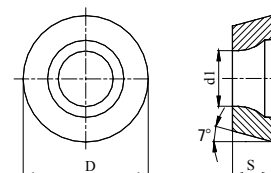


订货号 Ordering Code		尺寸 Dimensions(mm)					涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	TPKR1603PPTR	16.4	9.48	3.18	30°	1.2	○									

●标准库存 Stock ○需预定 Available upon Order

仿形铣削刀片 Profiling Milling Inserts

RCET

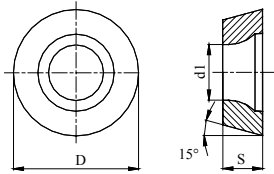


订货号 Ordering Code		尺寸 Dimensions(mm)			涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		D	S	d1	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	RCET10T3M0-EM	10	3.97	4.4	●	○	○							○
	RCET1204M0-EM	12	4.76	4	●	○	○							○
	RCET1204M0-MM	12	4.76	4	●	●	●							○
	RCET1204M0-KM	12	4.76	4	○	○	○							
	RCET1606M0-KM	16	6.35	5.5	○	○	○							
	RCET1606M0T-KH	16	6.35	5.5	●	○	○							

●标准库存 Stock ○需预定 Available upon Order

仿形铣削刀片
Profiling Milling Inserts

RDET/RDMT

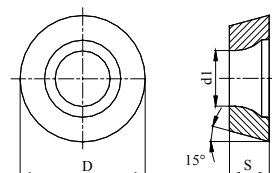


订货号 Ordering Code		尺寸 Dimensions(mm)			涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		D	S	d1	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	RDET0803M0-BL	8	3.18	2.94	○	○								
	RDET10T3M0-BL	10	3.97	4.4	●	●								
	RDET1204M0-BL	12	4.76	4.4	●	●								
	RDET1604M0-BL	16	4.76	5.5	○	○								
	RDET0802M0-GM*	8	2.38	2.94	○									
	RDET0803M0-GM	8	3.18	2.94	○	○								
	RDET10T3M0-GM	10	3.97	4.4	●	●								○
	RDET1204M0-GM	12	4.76	4.4	○	○								
	RDET1604M0-GM	16	4.76	5.5	○	○								
	RDET1204M0T-MM	12	4.76	4.4	●									
	RDMT10T3M0-GM	10	3.97	4.4	●	●								
	RDMT1204M0-GM	12	4.76	4.4	●	●								

●标准库存 Stock ○需预定 Available upon Order
*非标规格Tailormade

仿形铣削刀片 Profiling Milling Inserts

RDEW/RDMW

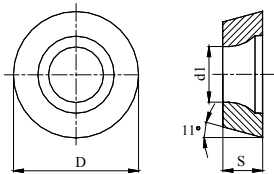


订货号 Ordering Code		尺寸 Dimensions(mm)			涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		D	S	d1	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	RDEW0501M0	5	1.51	2.2	●	●								○
	RDEW0702M0	7	2.38	2.8	●	●								○
	RDEW1003M0*	10	3.18	4.4	○									○
	RDEW0702M0T	7	2.38	2.8	●	●								
	RDEW0803M0T	8	3.18	2.94	●	●								
	RDEW10T3M0T	10	3.97	4.4	●	●								
	RDEW12T3M0T*	12	3.97	4.4	○									
	RDEW1204M0T	12	4.76	4.4	●	●								
	RDEW1604M0T	16	4.76	5	●	●								
	NEW RDEW1204M0T-BM	12	4.76	4.4	●	●								
	NEW RDMW1204M0T-BM	12	4.76	4.4	●	●								
	RDMW1605M0T-BM*	16	5.56	5.5	●	○								
	NEW RDMW10T3M0T	10	3.97	4.4	●	○								
	RDMW1604M0T	16	4.76	5.5	●	○								

●标准库存 Stock ○需预定 Available upon Order
*非标规格 Tailormade

仿形铣削刀片
Profiling Milling Inserts

RPET/RPMT

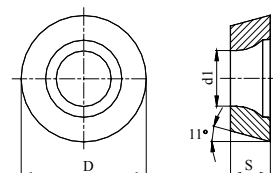


订货号 Ordering Code		尺寸 Dimensions(mm)			涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		D	S	d1	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	RPET1003M0-GL	10	3.18	4.4	○	○								
	RPET1204M0-GL	12	4.76	4.4	○	○								
	RPET08T2M0-GM	8	2.78	2.94	○	○	●							
	RPET1003M0T-GM	10	3.18	4.4	●	●								
	RPET1204M0-GM	12	4.76	4.4	●	●	●							
	RPET1204M0T-GM	12	4.76	4.4	●	●	●							
	RPET1606M0T-GM	16	6.35	5.5	○	○								
	RPET1606M0-SM	16	6.35	5.5			●							
	RPET1606M0T-GH	16	6.35	5.5	○	○	○							
	RPMT1003M0T-GM	10	3.18	4.4	●	●								
	RPMT1204M0-GM	12	4.76	4.4	●	○								

●标准库存 Stock ○需预定 Available upon Order

仿形铣削刀片 Profiling Milling Inserts

RPEW/RPMW

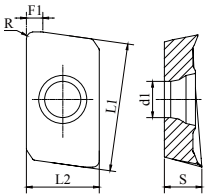


订货号 Ordering Code		尺寸 Dimensions(mm)			涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		D	S	d1	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	RPEW08T2M0	8	2.78	2.94	○	○								
	RPEW1003M0	10	3.18	4.4	●	●								
	RPEW10T3M0*	10	3.97	4.4	○									○
	RPEW1003M0T	10	3.18	4.4	●	●								
	RPEW1204M0T	12	4.76	4.4	●	●								
	RPMW1003M0T	10	3.18	4.4	●	●								
	RPMW1204M0T	12	4.76	4.4	●	●								

●标准库存 Stock ○需预定 Available upon Order
★非标规格 Tailormade

方肩铣削刀片
Shoulder Milling Inserts

APMT

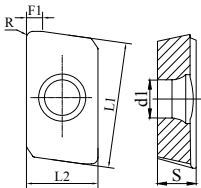


订货号 Ordering Code		尺寸 Dimensions(mm)						涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L1	L2	S	F1	d1	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	APMT1135PDER-PM	10.83	6.16	3.5	1.92	2.8	0.8	●	●			○					○
	APMT1604PDER-PM	16.26	9.26	4.76	2	4.6	0.8	●	●			○					○
	APMT1135PDER-PR	10.84	6.15	3.5	1.87	2.8	0.8	●	●			○					○
	APMT1604PDER-PR	16.26	9.24	4.76	2.2	4.4	0.8	●	●			○					○
	APGT1135PDFR-AL	10.83	6.16	3.5	1.92	2.8	0.8									○	
	APGT1604PDFR-AL	16.26	9.24	4.76	2.2	4.4	0.8									○	

●标准库存 Stock ○需预定 Available upon Order

方肩铣削刀片
Shoulder Milling Inserts

XPHT

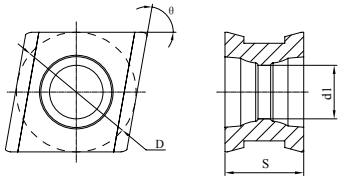


订货号 Ordering Code	尺寸 Dimensions(mm)						涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
	L1	L2	S	F1	d1	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	XPHT160408T	15.6	9.525	4.76	2	4.65	0.8					○				
	XPHT160412T	15.6	9.525	4.76	2	4.65	1.2					○				

● 标准库存 Stock ○ 需预定 Available upon Order

三面刃铣削刀片
Side and Face Milling Inserts

CNEU



订货号 Ordering Code		尺寸 Dimensions(mm)				涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		D	θ	S	d1	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
NEW 	CNEU070508-PM	7.6	80°	5	3.4	●	●			●					
NEW 	CNEU070508-KM	7.6	80°	5	3.4	○	●			●					

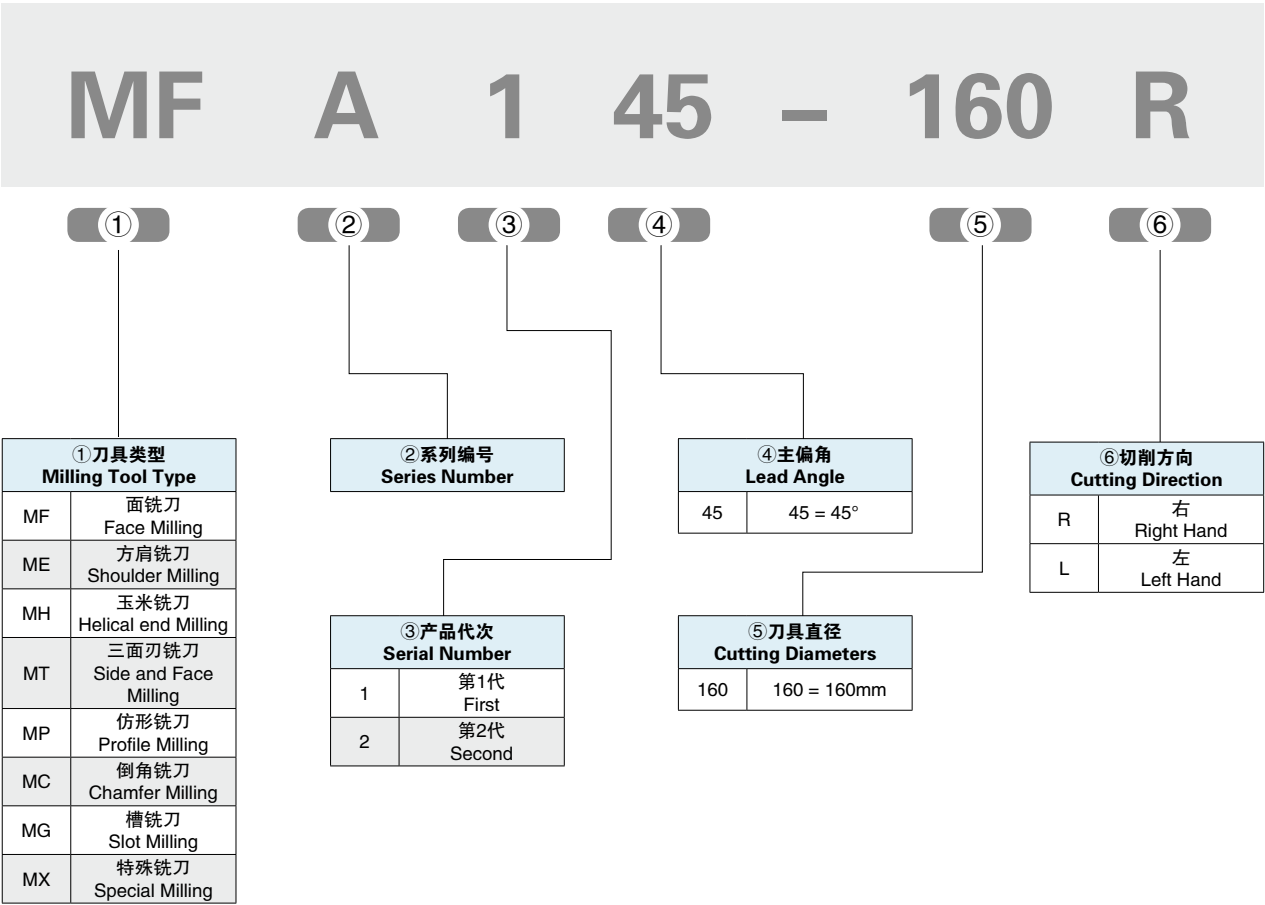
●标准库存 Stock ○需预定 Available upon Order



MILLING CUTTER BODIES

铣削刀体

铣削刀体型号表示规则
Milling Tools Identification System



09 C 40 – S P 12 (L)

⑦	⑧	⑨	⑩	⑪	⑫	⑬
⑦齿数 No. of teeth	⑧接口类型 Type of Coupling	⑨接口尺寸 Coupling Size	⑩刀片形状 Insert Shape	⑪刀片后角 Insert Clearance Angle	⑫切削刃长度 Cutting Edge Length	⑬刀杆长度 Body Length
07 7齿	A A型接口 A type	40 40 = 40mm	V 35° 菱形 35° Rhombic	N 0°	12 12 = 12mm	S 标准 Standard
	B B型接口 B type		D 55° 菱形 55° Rhombic	B 5°		M 一般 Normal
	C C型接口 C type		C 80° 菱形 80° Rhombic	C 7°		L 长 Long
	D D型接口 D type		S 正方形 Square	D 15°		
	M 螺纹接口 Threaded Interface		T 正三角形 Triangle	E 20°		
	P 直柄 Straight Shank		R 圆形 Round	F 25°		
	W 削平直柄 Weldon Shank		L 长方形 Rectangle			
	BT BT型接口 BT type					

铣削刀体一览表

Features of Milling Cutter Bodies

用途 Purpose	主偏角 Lead Angle	刀体系列 Series	产品外形 Shape	
面铣 Face Milling	45°	MFA145	 Page108	
			 Page109	
仿形铣 Profile Milling	—	MPA100	 Page113	
			 Page113	
	—	MPB100	 Page116	
			 Page116	
方肩铣 Shoulder Milling	90°	MEA190	 Page121	
			 Page121	

	规格 Specification	简介 Profile	特点 Features
	Φ50 Φ63 Φ80 Φ100 Φ125	通用轻快切削，适用于各种材料的机械结构部件接触面高效面铣加工 Smoothly cutting with universal property, specially suit for efficiency face milling for connection face of mechanical components with different material.	● 优质合金钢材料 High quality alloy steel material ● 闭口容屑槽设计 Close chip-room design ● 高精定位槽 High precision locating slot ● 喷丸强化处 Blasting process ● 最大切深: 6mm Ap_{max}:6mm
	Φ50 Φ63		
	Φ50 Φ63	用于模具行业的模架平面铣削和型腔铣、机械加工平面及型腔加工 Mainly used for the face milling and pocket milling in mold and die 、general machining.	● 双重夹紧 Double clamping ● 精确的定位槽 Accurate locating slot ● 大容屑槽设计 Big chip-room ● 表面特殊处理 Special surface treatment ● 最大切深: 6mm Ap_{max}:6mm
	Φ20 Φ25 Φ32		
	Φ40 Φ50 Φ63	用于模具行业的模架平面铣削和型腔铣、机械加工平面及型腔加工 Mainly used for the face milling and pocket milling in mold and die 、general machining.	● 双重夹紧 Double clamping ● 精确的定位槽 Accurate locating slot ● 大容屑槽设计 Big chip-room ● 表面特殊处理 Special surface treatment ● 最大切深: 6mm Ap_{max}:6mm
	Φ20 Φ25 Φ32		
	Φ50 Φ63	通用方肩铣、通槽铣、仿形铣、和螺旋斜坡铣等 General purpose end mill for shouldering, slotting, contouring and ramping operations.	● 刀体强度高 High intensity ● 制造工艺出色 Excellent body manufacturing technology ● 适合大切深 Suitable for large cutting depth ● 11° 正型刀片 11° positive insert ● 最大切深: 14mm Ap_{max}:14mm
	Φ16 Φ20 Φ25 Φ32		

面铣

Face Milling

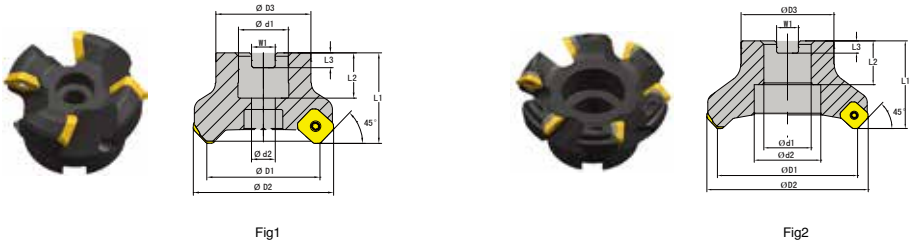
通用45° 面铣削 –MFA145

45° Double Positive Face Milling—MFA145

MFA145

心轴式

Arbor



疏齿型

Coarse Pitch

订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts			图示 Shape	库存 Stock
			ΦD1	Φd1	L1	W1	L3			刀垫 Shim	螺钉 Screw	扳手 Wrench		
MFA145-050R03A22-SE13	50	3	50	22	40	10.4	6.3	6	SEET13T3	—	S60M4*10	T15P	Fig1	●
MFA145-063R04A22-SE13	63	4	50	22	40	10.4	6.3	6	SEET13T3	—	S60M4*10	T15P	Fig1	●

密齿型

Close Pitch

订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts			图示 Shape	库存 Stock
			ΦD1	Φd1	L1	W1	L3			刀垫 Shim	螺钉 Screw	扳手 Wrench		
MFA145-050R04A22-SE13	50	4	50	22	40	10.4	6.3	6	SEET13T3	—	S60M4*10	T15P	Fig1	●
MFA145-063R05A22-SE13	63	5	63	22	40	10.4	6.3	6	SEET13T3	—	S60M4*10	T15P	Fig1	●
MFA145-080R06B27-SE13	80	6	80	27	50	12.4	7	6	SEET13T3	✓	S60M4*10	T15P	Fig2	●
MFA145-100R07B32-SE13	100	7	100	32	50	14.4	8.3	6	SEET13T3	✓	S60M4*10	T15P	Fig2	●
MFA145-125R08B40-SE13	125	8	125	40	50	16.4	8.3	6	SEET13T3	✓	S60M4*10	T15P	Fig2	●

●标准库存 Stock ○需预定 Available upon Order

面铣

Face Milling

通用45° 面铣削—MFA145

45° Double Positive Face Milling—MFA145

MFA145

圆柱直柄式

Sank

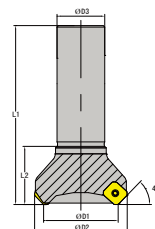


Fig3

疏齿型

Coarse Pitch

订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts			图示 Shape	库存 Stock
			Φ D1	Φ D2	Φ D3	L1	L2			刀垫 Shim	螺钉 Screw	扳手 Wrench		
MFA145-050R03P32-SE13	50	3	50	63	32	120	39	6	SEET13T3	-	S60M4*10	T15P	Fig3	●
MFA145-063R04P32-SE13	63	4	63	76	32	120	39	6	SEET13T3	-	S60M4*10	T15P	Fig3	●

密齿型

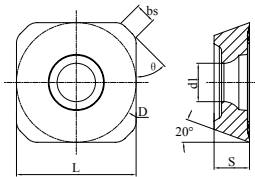
Close Pitch

订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts			图示 Shape	库存 Stock
			ΦD1	ΦD2	ΦD3	L1	L2			刀垫 Shim	螺钉 Screw	扳手 Wrench		
MFA145-050R04P32-SE13	50	4	50	63	32	120	39	6	SEET13T3	-	S60M4*10	T15P	Fig3	●
MFA145-063R05P32-SE13	63	5	63	76	32	120	39	6	SEET13T3	-	S60M4*10	T15P	Fig3	●

●标准库存 Stock ○需预定 Available upon Order

面铣
Face Milling
刀片
Insert

SEET

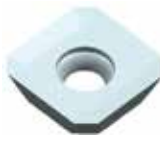
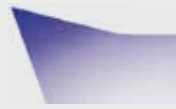


订货号 Ordering Code		尺寸 Dimensions(mm)						涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L	D	S	d1	θ	bs	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	SEET13T3AGEN-PL	13.4	13.4	3.97	4.4	45°	1.7	○	●								
	SEET13T3AGEN-PM	13.4	13.4	3.97	4.4	45°	1.2	○	●	○							○
	SEET13T3AGSN-KM	13.4	13.4	3.97	4.4	45°	1.3	○	●			○					
	SEET13T3AGSN-PH	13.4	13.4	3.97	4.4	45°	1.3	○	●								
	SEET13T3AGSN-KH	13.4	13.4	3.97	4.4	45°	1.3	○	●			○					
	SEET13T3AGFN-AL	13.4	13.4	3.97	4.4	45°	2.2						●				

●标准库存 Stock ○需预定 Available upon Order

SEET13T3系列槽型

SEET13T3 Series Geometry

PL槽型 PL Geometry	PM槽型 PM Geometry	KM槽型 KM Geometry	PH槽型 PH Geometry	KH槽型 KH Geometry	AL槽型 AL Geometry
					
					
通用材料 轻载切削 Light cutting for general material	通用材料 中载切削 Medium cutting for general material	铸 铁 中载切削 Medium cutting for cast iron	通用材料 重载切削 Rough cutting for general material	铸 铁 重载切削 Rough cutting for cast iron	铝合金 通用切削 General cutting for aluminum alloys
大前角窄刃宽设计， 最适于低切削力、 低进给率的 轻载加工。 Large rake angle with Narrow edge width. Suit for light milling of low cutting speed and low feed.	大前角设计， 切削轻快， 大多数一般工况下可 实现高稳定性加工。 Smoothly cutting. High stability milling can be achieved under general cutting conditions.	铸铁一般工况 专用槽型， 可应对绝大多数的铸 铁中载切削。 The chipbreaker specially applicable for cast iron under general cutting conditions. Most medium milling can be achieved.	高强度刃口， 断续切削、 去黑皮加工时 性能优异。 Strong cutting edge for intermittent cutting condition.	铸铁重载切削 专用槽型， 断续、带黑皮粗 加工时表现优越。 Special chipbreaker for cast iron cutting and heavy cutting. Suitable for rough cutting	大前角锋利刃， 切削轻快， 镜面抛光处理， 排屑良好。 亦适用高进给加工。 Large rake angle, sharp cutting edge with smoothly cutting. Suitable for high feed cutting

推荐切削条件
Recommended Cutting Conditions

工件材料 Workpiece Materials		材料硬度 Materials Hardness	牌号 Grade	切削速度 (mm/min) Recommended Cutting Speed	轻载切削 Light Cutting		中载切削 Medium Cutting		重载切削 Heavy Cutting	
					进给/刃 (mm/tooth)	槽型 chipbreaker	进给/刃 (mm/tooth)	槽型 chipbreaker	进给/刃 (mm/tooth)	槽型 chipbreaker
P	软 钢 Low Carbon Steel (SS400、S10C等)	≤HB180	GA4225 GA4230	250 (210–350)	0.15 (0.1–0.2)	PL	0.2 (0.1–0.3)	PM	0.3 (0.2–0.4)	PH
	碳钢、合金钢 Carbon Steel Alloy Steel (S45C、SCM440等)	HB180–280	GA4225 GA4230	220 (170–270)	0.15 (0.1–0.2)	PL	0.2 (0.1–0.3)	PM	0.3 (0.2–0.4)	PH
		HB280–350	GA4230	140 (100–180)	0.15 (0.1–0.2)	PL	0.2 (0.1–0.3)	PM	0.3 (0.2–0.4)	PH
M	不锈钢 Stainless Steel (SUS304等)	≤HB275	GA4225 GA4230	180 (130–250)	0.15 (0.1–0.2)	PL	0.2 (0.1–0.3)	PM	0.3 (0.2–0.4)	PH
K	铸铁、球磨铸铁 Gray Cast Iron Nodular Cast Iron (FC250、FCD400等)	≤HB350	GA4225 GA4230	180 (130–250)	0.15 (0.1–0.2)	PL	0.2 (0.1–0.3)	KM	0.3 (0.2–0.4)	KH
N	铝 材 Aluminum	HB60–210	GA0115	≥300	0.15 (0.1–0.2)	AL	0.2 (0.1–0.3)	AL	0.3 (0.2–0.4)	AL
S	耐热合金 Heat-resistant Alloy	HRC25–35	GA4230	40 (20–50)	0.15 (0.1–0.2)	PL	0.2 (0.1–0.3)	PM	--	--
H	高硬度钢 High Hardness Steel	HRC48–55	GA4230	80 (60–100)	0.1 (0.05–0.15)	PL	0.15 (0.1–0.2)	PM	--	--

★ 刀具转速 (min⁻¹) = (1000x切削速度) ÷ (3.14x刀具切削刃直径)
Tool RPM (min⁻¹) = (1000xCutting Speed) ÷ (3.14x Diameters Of Cutter)
★ 机床工作台进给量 (mm/min) = 每刃进给量x刀具刃数x刀具转速
Workpiece Feed (mm/min) = Feed Per Tooth x Number of Tooth x Tool RPM

仿形铣

Profile Milling

通用仿形铣削—MPA100

General Profiling Milling—MPA100

MPA100

心轴式

Arbor

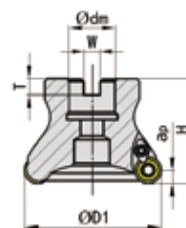


Fig1

疏齿型

Coarse Pitch

订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts			图示 Shape	库存 Stock
			ΦD1	Φdm	H	W	T			压板 Clamp	螺钉 Screw	扳手 Wrench		
MPA100-050R04A22-RD10	50	4	50	22	50	10.4	6.3	5	RD□□10T3	DC1007	S60M4*9 S60M3.5*10	T15P	Fig1	●
MPA100-050R04A22-RD12	50	4	50	22	50	10.4	6.3	6	RD□□1204	DC1208	S60M4*10	T15P	Fig1	●
MPA100-063R05A22-RD12	63	5	63	22	50	10.4	6.3	6	RD□□1204	DC1208	S60M4*10	T15P	Fig1	●

●标准库存 Stock ○需预定 Available upon Order

MPA100

圆柱直柄式

Shank



Fig2



Fig3

疏齿型

Coarse Pitch

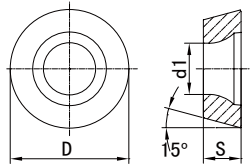
订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts			图示 Shape	库存 Stock
			ΦD1	Φdm	L	L1	-			压板 Clamp	螺钉 Screw	扳手 Wrench		
MPA100-020R02P20-RD10M	20	2	20	20	160	50	-	5	RD□□10T3	DC1007	S60M4*9 S60M3.5*10	T15P	Fig2	○
MPA100-025R02P20-RD10M	25	2	25	20	160	50	-	5	RD□□10T3	DC1007	S60M4*9 S60M3.5*10	T15P	Fig3	●
MPA100-032R02P25-RD12M	32	2	32	25	200	60	-	6	RD□□1204	DC1208	S60M4*10	T15P	Fig3	●

●标准库存 Stock ○需预定 Available upon Order

仿形铣
Profile Milling

刀片
Insert

RDET/RDMT/RDEW/RDMW



订货号 Ordering Code		尺寸 Dimensions(mm)			涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		D	S	d1	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	RDET10T3M0-BL	10	3.97	4.4	●	●								
	RDET1204M0-BL	12	4.76	4.4	●	●								
	RDET10T3M0-GM	10	3.97	4.4	●	●								○
	RDMT10T3M0-GM	10	3.97	4.4	●	●								
	RDET1204M0-GM	12	4.76	4.4	○	○								
	RDMT1204M0-GM	12	4.76	4.4	●	●								
	RDEW10T3M0T	10	3.97	4.4	●	●								○
	RDMW10T3M0T	10	3.97	4.4	●	○								
	RDEW1204M0T	12	4.76	4.4	●	●								○
	RDEW1204M0T-BM	12	4.76	4.4	●	●								○
	RDMW1204M0T-BM	12	4.76	4.4	●	●								

●标准库存 Stock ○需预定 Available upon Order

MPA100系列槽型

MPA100 Series Geometry

加工工况 Working Condition	轻切削 Light Cutting	中切削 Medium Cutting	重切削 Heavy Cutting	
槽型代码 Chipbreaker Code	BL	GM	T-BM	T- (平板型)
基本形状 Basic Shape				
槽型特点 Chipbreaker feature	BL:适用于P、M类材料的轻切削， 20-22° 大前角设计 BL: Suitable for light cutting steel and stainless steel, big front rake angle of 20-22° .	GM: 适用于P、M、K类材料的中切 削，前角14-18° 。 GM: Suitable for medium cutting steel, stainless steel and cast iron, front rake angle of 14-18° .	T-BM: 带修饰花纹的平板槽型， 适用于P、M、K类材料的重切削， 主要用于半精到粗加工。 T-BM: Flat chipbreaker with decorative pattern, Suitable for heavy cutting steel and stainless steel, semi-finishing to roughing.	

仿形铣

Profile Milling

通用仿形铣削--MPB100

General Profiling Milling—MPB100

MPB100

心轴式

Arbor

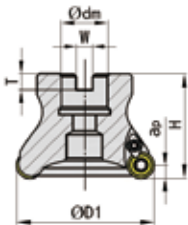


Fig1

疏齿型

Coarse Pitch

订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts			图示 Shape	库存 Stock
			$\Phi D1$	Φdm	H	W	T			压板 Clamp	螺钉 Screw	扳手 Wrench		
MPB100-040R04A16-RP10	40	4	40	16	50	8.4	6.3	5	RP□□1003	DC1007	S60M4*9 S60M3.5*10	T15P	Fig1	●
MPB100-050R04A22-RP10	50	4	50	22	50	10.4	6.3	5	RP□□1003	DC1007	S60M4*9 S60M3.5*10	T15P	Fig1	●
MPB100-050R04A22-RP12	50	4	50	22	50	10.4	6.3	6	RP□□1204	DC1208	S60M4*10	T15P	Fig1	●
MPB100-063R05A22-RP12	63	5	63	22	50	10.4	6.3	6	RP□□1204	DC1208	S60M4*10	T15P	Fig1	●

●标准库存 Stock ○需预定 Available upon Order

MPB100

圆柱直柄式

Shank

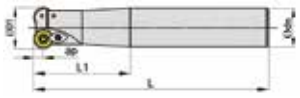


Fig2



Fig3

疏齿型

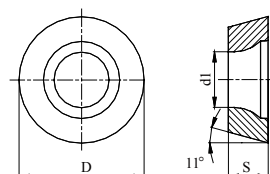
Coarse Pitch

订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts			图示 Shape	库存 Stock
			$\Phi D1$	Φdm	L	L1	-			压板 Clamp	螺钉 Screw	扳手 Wrench		
MPB100-020R02P20-RP10M	20	2	20	20	160	50	-	5	RP□□10T3	DC1007	S60M4*9 S60M3.5*10	T15P	Fig2	○
MPB100-025R02P20-RP10M	25	2	25	20	160	50	-	5	RP□□10T3	DC1007	S60M4*9 S60M3.5*10	T15P	Fig3	●
MPB100-025R02P20-RP10L	25	2	25	20	200	50	-	5	RP□□10T3	DC1007	S60M4*9 S60M3.5*10	T15P	Fig3	●
MPB100-025R02P25-RP12M	25	2	25	25	160	50	-	6	RP□□1204	DC1208	S60M4*10	T15P	Fig2	●
MPB100-032R02P25-RP12M	32	2	32	25	160	50	-	6	RP□□1204	DC1208	S60M4*10	T15P	Fig3	●
MPB100-032R02P25-RP12L	32	2	32	25	200	60	-	6	RP□□1204	DC1208	S60M4*10	T15P	Fig3	●

●标准库存 Stock ○需预定 Available upon Order

仿形铣
Profile Milling
刀片
Insert

RPET/RPMT/RPEW/RPMW



订货号 Ordering Code		尺寸 Dimensions(mm)			涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		D	S	d1	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	RPET1003M0-GL	10	3.18	4.4	○	○								
	RPET1204M0-GL	12	4.76	4.4	○	○								
	RPET1003M0T-GM	10	3.18	4.4	●	●								
	RPMT1003M0T-GM	10	3.18	4.4	●	●								
	RPET1204M0-GM	12	4.76	4.4	●	●	●							
	RPMT1204M0-GM	12	4.76	4.4	●	○								
	RPET1204M0T-GM	12	4.76	4.4	●	●	●							
	RPEW1003M0	10	3.18	4.4	●	●								○
	RPEW1003M0T	10	3.18	4.4	●	●								○
	RPMW1003M0T	10	3.18	4.4	●	●								
	RPEW1204M0T	12	4.76	4.4	●	●								
	RPMW1204M0T	12	4.76	4.4	●	●								

●标准库存 Stock ○需预定 Available upon Order

MPB100系列槽型
MPB100 Series Geometry

加工工况 Working Condition	轻切削 Light Cutting	中切削 Medium Cutting	重切削 Heavy Cutting	
槽型代码 Chipbreaker Code	GL	GM	T-BM	T- (平板型)
基本形状 Basic Shape				
槽型特点 Chipbreaker feature	GL:适用于P、M类材料的轻切削， 20-22° 大前角设计 GL: Suitable for light cutting steel and stainless steel, big front rake angle of 20-22° .	GM: 适用于P、M、K类材料的中切 削，前角14-18° 。 GM: Suitable for medium cutting steel, stainless steel and cast iron, front rake angle of 14-18° .	T- (平板) : 无花纹的平板槽型， 适于P、M、K类材料的重切削， 主要用于半精到粗加工。 T-(None): Flat chipbreaker, Suitable for heavy cutting steel and stainless steel, semi-finishing to roughing.	

推荐切削条件

Recommended Cutting Conditions

工件材料 Workpiece Material		材料硬度 Material Hardness	牌号 Grade	切削速度 Cutting Speed Vc (m/min)	每齿进给 fz (mm/min) Feed per Tooth(mm/min)		
					轻切削 (L) Light	中切削 (M) Medium	重切削 (H) Heavy
P	软钢 Low Carbon Steel	≤HB180	GA4225 GA4230	180 (150-220)	0.15 (0.1-0.25)	0.2 (0.15-0.3)	0.25 (0.2-0.35)
	碳钢、合金钢 Carbon Steel Alloy Steel	HB180-350	GA4225 GA4230	160 (140-200)	0.15 (0.1-0.25)	0.2 (0.15-0.3)	0.25 (0.2-0.35)
	预硬钢 Pre-hardened Steel	HRC35-45	GA4230	120 (100-160)	0.15 (0.1-0.25)	0.2 (0.15-0.3)	0.25 (0.2-0.35)
M	不锈钢 (铁素体、马氏体) Stainless Steel (Ferrite、 Martensite)	≤HB270	GA4225 GA4230	140 (120-180)	0.15 (0.1-0.25)	0.2 (0.15-0.3)	0.25 (0.2-0.35)
	不锈钢 (奥氏体、双相) Stainless Steel (Austenite、 Diphasic)	≤HB270	GA4225 GA4230	120 (100-160)	0.15 (0.1-0.25)	0.2 (0.15-0.3)	0.25 (0.2-0.35)
K	灰铸铁 Grey Cast Iron	≤HB280	GA4225 GA4230	180 (150-220)	0.15 (0.1-0.25)	0.2 (0.15-0.3)	0.25 (0.2-0.35)
	球墨铸铁、蠕墨铸铁 Nodular Cast Iron Vermicular Cast Iron	≤HB350	GA4225 GA4230	160 (140-200)	0.15 (0.1-0.25)	0.2 (0.15-0.3)	0.25 (0.2-0.35)
S	耐热合金、钛合金 Heat-resistant Alloy and Titanium Alloy	HRC25-35	GA4230	40 (30-60)	0.1 (0.05-0.15)	0.12 (0.08-0.2)	--
H	淬火钢 Quenching Steel	HRC48-55	GA4230	80 (60-120)	0.12 (0.08-0.2)	0.15 (0.1-0.25)	0.2 (0.15-0.3)

- ★ 刀具转速 (min^{-1}) = (1000x切削速度) ÷ (3.14x刀具切削刃直径)
 Tool RPM (min^{-1}) = (1000xCutting Speed) ÷ (3.14x Diameters Of Cutter)
 ★ 机床工作台进给量 (mm/min) = 每刃进给量x刀具刃数x刀具转速
 Workpiece Feed (mm/min) = Feed Per Tooth x Number of Tooth x Tool RPM

R5/R6刀片推荐进给量fz与切深ap关系
The Relationship of recommended Feed and Deep of R5 or R6 inserts

刀片IC Insert(mm)	工况 Cutting Condition	切深ap Deep(mm)						
		0.1	0.5	1	1.5	2	2.5	3
10	轻切削 (L) Light Cutting	0.75 (0.25-0.90)	0.34 (0.11-0.41)	0.25 (0.08-0.30)	0.21(0.07- 0.25)	0.19 (0.06-0.23)	0.17 (0.05-0.21)	—
	中切削 (M) Medium Cutting	0.90 (0.25-1.26)	0.41 (0.11-0.57)	0.30 (0.08-0.42)	0.25(0.07- 0.35)	0.23 (0.06-0.31)	0.21 (0.05-0.28)	—
	重切削 (H) Heavy Cutting	1.01 (0.35-1.51)	0.46 (0.16-0.69)	0.33 (0.12-0.50)	0.28(0.10- 0.42)	0.25 (0.09-0.38)	0.23 (0.08-0.35)	—
12	轻切削 (L) Light Cutting	0.83 (0.28-1.10)	0.38 (0.13-0.50)	0.27 (0.09-0.36)	0.23(0.08- 0.30)	0.20 (0.07-0.27)	0.18 (0.06-0.25)	0.17 (0.06-0.23)
	中切削 (M) Medium Cutting	0.99 (0.28-1.38)	0.45 (0.13-0.63)	0.33 (0.09-0.45)	0.27(0.08- 0.38)	0.24 (0.07-0.34)	0.22 (0.06-0.31)	0.21 (0.06-0.29)
	重切削 (H) Heavy Cutting	1.10 (0.39-1.65)	0.50 (0.18-0.75)	0.36 (0.13-0.54)	0.30 (0.11-0.45)	0.27 (0.09-0.40)	0.25 (0.08-0.37)	0.23 (0.08-0.35)

备注：圆刀片切削加工，一般情况ap<25%IC，当超过此切深时推荐用Kr=45° 的SEET系刀片。
Remarks: In general, when the cutting depth is less than 25%IC using screw cutting tool. If the cutting depth exceeds the Kr=45° series of SEET inserts are recommended.

方肩铣

Shoulder Milling

通用方肩铣削—MEA190

General Shoulder Milling—MEA190

MEA190

心轴式

Arbor

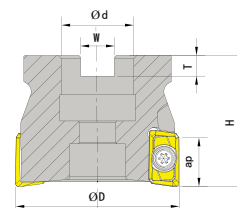


Fig1

订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts		图示 Shape	库存 Stock
			ΦD	Φd	H	W	T			螺钉 Screw	扳手 Wrench		
MEA190-050R04A22-AP16	50	4	50	22	50	10.4	6.3	14	APMT1604PDER	S60M4*10	T15P	Fig1	●
MEA190-063R05A22-AP16	63	5	63	22	50	10.4	6.3	14	APMT1604PDER	S60M4*10	T15P	Fig1	●

●标准库存 Stock ○需预定 Available upon Order

MEA190

圆柱直柄式

Shank

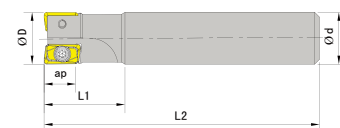


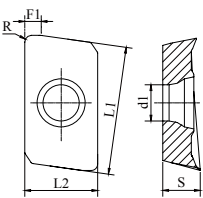
Fig2

订货号 Ordering Code	直径 Diameters	刃数 Z	尺寸 (mm) Dimensions					切深 Ap	匹配刀片 Gauge Insert	配件 Spare Parts		图示 Shape	库存 Stock
			ΦD	Φd	L2	L1	—			螺钉 Screw	扳手 Wrench		
MEA190-016R02P16-AP11	16	2	16	16	120	40	—	9	APMT1135PDER	S60M2.5*6	T8P	Fig2	●
MEA190-020R03P20-AP11	20	3	20	20	160	50	—	9	APMT1135PDER	S60M2.5*6	T8P	Fig2	●
MEA190-025R03P25-AP11	25	3	25	25	160	50	—	9	APMT1135PDER	S60M2.5*6	T8P	Fig2	●
MEA190-025R02P25-AP16	25	2	25	25	160	50	—	14	APMT1604PDER	S60M4*9	T15P	Fig2	●
MEA190-032R03P32-AP16	32	3	32	32	160	80	—	14	APMT1604PDER	S60M4*9	T15P	Fig2	●

●标准库存 Stock ○需预定 Available upon Order

方肩铣
Shoulder Milling
刀片
Insert

APMT

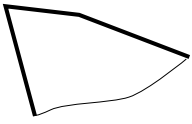


订货号 Ordering Code		尺寸 Dimensions(mm)						涂层硬质合金 Coated					硬质合金 Uncoated				金属陶瓷 Cermet
		L1	L2	S	F1	d1	R	GA4225	GA4230	GM2125	GK1105	GK4125	GA0115	GP0135	GK0115	GN9125	GP01TM
	APMT1135PDER-PM	10.83	6.16	3.5	1.92	2.8	0.8	●	●			○					○
	APMT1604PDER-PM	16.26	9.26	4.76	2	4.6	0.8	●	●			○					○
	APMT1135PDER-PR	10.84	6.15	3.5	1.87	2.8	0.8	●	●			○					○
	APMT1604PDER-PR	16.26	9.24	4.76	2.2	4.4	0.8	●	●			○					○

●标准库存 Stock ○需预定 Available upon Order

MEA190系列槽型

MEA190 Series Geometry

用途 application	外形 shape	槽型 Geometry		性能介绍 Introduction
通用材料 中载切削 Medium Cutting		PM	 Fig.1	大多数一般工况可实现 高稳定性半精加工 Most general conditions can achieve high stability semi-finishing.
通用材料 重载切削 Rough Cutting		PR	 Fig.2	可以实现高效经济粗加工， 具有高的强度 Roughing can be achieved efficiently and economically, with high strength.

推荐切削条件
Recommended Cutting Conditions

工件材料 Workpiece Material		材料硬度 Material Hardness	牌号 Grade	断屑槽 Geometry	加工形态Cutting	切削速度 Cutting Speed Vc (m/min)	进给/刃 Feed Rate (mm/min)
P	软钢 Low Carbon Steel	≤HB180	GA4225 GA4230	PM	一般切削 General Cutting	180(150–200)	0.15 (0.1–0.2)
				PR		160(120–180)	0.1 (0.05–0.15)
	碳钢、合金钢 Carbon Steel Alloy Steel	HB 180–280	GA4225 GA4230	PM		150 (120–200)	0.15 (0.1–0.2)
				PR		120 (100–160)	0.2 (0.1–0.25)
		HB 280–350	GA4225 GA4230	PM		140 (120–160)	0.15 (0.1–0.2)
				PR		100 (80–120)	0.2 (0.1–0.25)
				PM		140 (120–160)	0.15 (0.1–0.2)
				PR		120 (80–140)	0.1 (0.05–0.15)
M	不锈钢 Stainless Steel	≤HB275	GA4225 GA4230	PM		140 (120–160)	0.15 (0.1–0.2)
				PR		120 (80–140)	0.1 (0.05–0.15)
K	普通铸铁 Cast Iron	抗拉强度 ≤350MPa	GA4230	PM		140 (120–160)	0.15 (0.1–0.2)
				PR		120 (100–140)	0.2 (0.1–0.25)
	球墨铸铁 Cast Iron	抗拉强度 ≤450MPa	GA4230	PM		120 (100–140)	0.15 (0.1–0.2)
				PR		100 (80–120)	0.2 (0.1–0.25)
		抗拉强度 500–800MPa	GA4230	PM		100 (80–120)	0.1 (0.05–0.15)
				PR		80 (60–100)	0.15 (0.1–0.2)
				PM		40 (30–60)	0.2 (0.1–0.3)
				PR		30 (20–40)	0.15 (0.1–0.2)
S	钛合金 Ti Alloy	HB350	GA4230	PM		70 (50–100)	0.1 (0.05–0.15)
	耐热合金、钛合金 Heat-resistant Alloy and Titanium Alloy	HRC45		PR		60 (50–100)	0.15 (0.05–0.15)
H	淬硬钢 High Hardness	HRC40	GA4230	PM			
				PR			

★ 刀具转速 (min⁻¹) = (1000x切削速度) ÷ (3.14x刀具切削刃直径)
Tool RPM (min⁻¹) = (1000xCutting Speed) ÷ (3.14x Diameter Of Cutter)
★ 机床工作台进给量 (mm/min) = 每刃进给量x刀具刃数x刀具转速
Workpiece Feed (mm/min) = Feed Per Tooth x Number of Tooth x Tool RPM



MEMO



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