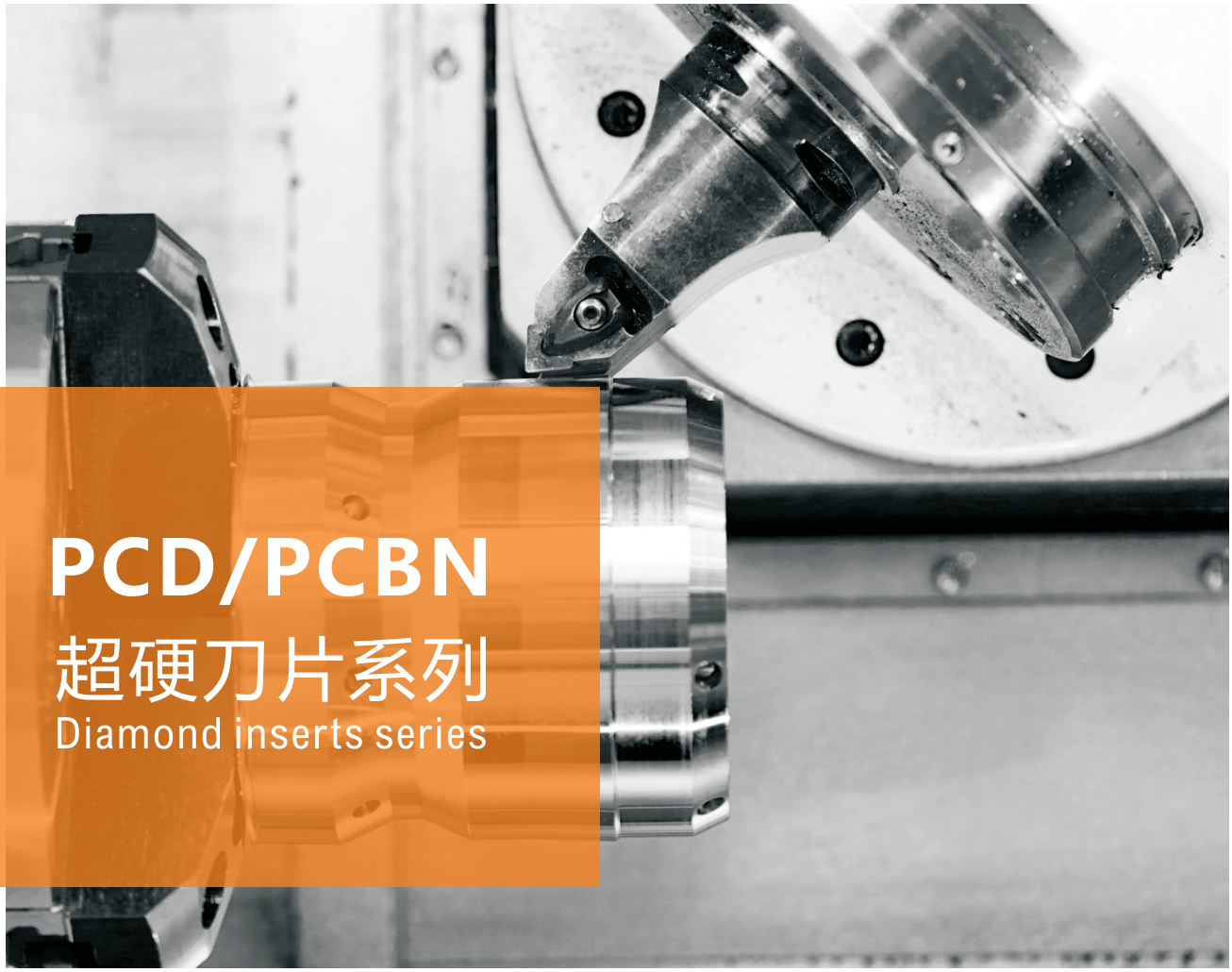
KOVES®
科维丝工具



PCD/PCBN
超硬刀片系列
Diamond inserts series

ABOUT US
关于我们

科维丝公司是一家专注于切削工具产品生产与销售的企业。
公司成立于2009年，从成立之初就注重技术服务为基础，公司建有“高性能数控刀具与工具系统技术联合实验室”，同时我们根据客户的产品和工艺需求：制定和优化加工工艺方案；选择合理切削参数；计算加工节拍；选择工具、刀具、刀片及附件；量身定做非标刀具；提供与机械加工相关的全套技术服务。

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koves is a global service-oriented enterprise,specialized in developing and selling industrial products. since established in 2009,from tne very beginning,koves pay attention to technical service as basement,we are has” hign performance cnc cutting tools and systems technology laboratory”,also our according to the customer’s product and process requirements formulation and optimization of manufacturing process;reasonable selection of cutting parameters;calculating cycle times;selest tools,cutters,blades and accessories;customized non-standard tool;provide a full range of technical services related to mechanical processing.

INTERNATIONAL CERTIFICATIONS ISO 9001

UKAS QUALITY MANAGEMENT

公司产品应用行业涵盖汽车、摩托车、柴油机、航空航天、军工、工程机械、矿山机械、机床、电机、汽轮机、重型机器、风电、核电、通用机械、手机通信等几乎所有机械制造行业。

Koves products are used in automotive motorcycle,diesel engine,aerospace,military,engineering machinery,mining machinery,cnc machinery,electric motors,steam turbine,heavy machinery,wind power,nuclear power,general machinery,mobile communication etc..almost all machinery manufacturing indusry.

PCBN简介和特点

PCBN硬度仅次于金刚石和PCD，晶体结构和晶间排列相似，使其具有接近金刚石的硬度和抗压强度。

用PCBN材料制作的刀片具有极高的硬度以及良好的红硬性（可耐受1400~1500℃的高温）、抗氧化性（在1200~1300℃高温下不与铁系金属发生化学反应）和抗断裂韧性，是车削加工黑色金属材料的理想刀具。相比硬质合金和陶瓷刀具，PCBN导热性极好，同样车削条件下，PCBN刀具车削温度更低。

目前PCBN刀具已在加工淬硬钢、冷硬铸铁、热喷涂材料、纯镍等难加工材料和精密加工中得到广泛应用，并取得了显著的技术经济效益。

PCBN Introduction and Features

PCBN hardness is weaker than diamond and PCD only,Because of it’s crystal structure and inter-crystalline arrangement,makes it closer to diamond hardness and compressive strength.

Blades made of PCBN material have extremely high hardness and good red hardness (tolerate high temperatures of 1400 to 1500°C), oxidation resistance (no chemical reaction with iron metals at temperatures of 1200 to 1300°C) and resistance Fracture toughness,It is the ideal tool for turning ferrous materials. Compared to cemented carbide and ceramic tools, PCBN has excellent thermal conductivity, and under the same turning conditions, PCBN tools have lower turning temperatures.

At present, PCBN tools have been widely used in machining hardened steels, chilled cast irons, thermal spray materials, pure nickel and other difficult to machined materials and precision machining,also it have achieved significant technical and economic benefits.

PCBN
适用加工材料

PCBN刀具主要适用于加工各种高硬材料（如冷作工具钢）、热作工具钢、高速钢、轴承钢、淬硬钢、粉末冶炼钢、粉末冶炼金属、马氏体不锈钢、高强度刚、高锰钢、白口铸铁、奥氏体软铁等）、软材料和耐磨材料（如灰口铸铁、烧结铁等）、难加工材料（如Inconel718、表面硬化合金、烧结WC、球墨铸铁、IGI等）。

Applicable processing materials

PCBN tool is mainly used for processing various high-hard materials (such as cold work tool steel), hot work tool steel, high speed steel, bearing steel, hardened steel, powder smelting steel, powder smelting metal,martensitic stainless steel, high-strength just , high manganese steel, white cast iron, austenitic soft iron, etc.), soft materials and wear-resistant materials (such as gray cast iron, sintered iron, etc.), hard-to-machine materials (such as Inconel 718, surface hardening alloy, sintered WC, Spheroidal Graphite cast iron, IGI, etc.).

刀片编号说明

Insert Identification System

4-	C	N	M	G	12
刃数 Shank Dia	1	2	3	4	5

1 刀片形状 Insert shape

A 85° B 82° K 55°	
H 120°	
L 90°	
O 135°	
P 108°	
C 80° D 55° E 75° M 86° V 35°	
R -	
S 90°	
T 60°	
W 80°	

2 刀片后角 Insert clearance angle

	a
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	特殊 Special

3 精度代号 Tolerance

	d (±mm)	m (±mm)	s (±mm)	d=6.3/9.525	d=12.7	d=15.8/19.05
A	0.025	0.005	0.025	•	•	•
C	0.025	0.013	0.025	•	•	•
E	0.025	0.025	0.025	•	•	•
F	0.013	0.005	0.025	•	•	•
G	0.025	0.025	0.130	•	•	•
H	0.013	0.013	0.025	•	•	•
J	0.050	0.05	0.025	•		
	0.080	0.05	0.025		•	
	0.100	0.05	0.025			•
K	0.050	0.013	0.025	•		
	0.080	0.013	0.025		•	
	0.100	0.013	0.025			•
M	0.05	0.08	0.13	•		
	0.08	0.13	0.13		•	
	0.10	0.15	0.13			•
N	0.05	0.08	0.025	•		
	0.08	0.13	0.025		•	
	0.10	0.15	0.025			•
U	0.08	0.13	0.13	•		
	0.13	0.20	0.13		•	
	0.18	0.27	0.13			•

4 切削槽及夹固形式 Chip-breaker and clamp type

R 无中心孔 Without hole	Q 圆柱孔＋双面倒角40°~60° Cylindrical hole+double countersink
F 无中心孔 Without hole	C 圆柱孔＋双面倒角70°~90° Cylindrical hole+double countersink
N 无中心孔 Without hole	G 圆柱孔 Cylindrical hole
A 圆柱孔 Cylindrical hole	T 圆柱孔＋单面倒角40°~60° Cylindrical hole+ countersink
M 圆柱孔 Cylindrical hole	H 圆柱孔＋单面倒角70°~90° Cylindrical hole+ countersink
U 圆柱孔＋双面倒角40°~60° Cylindrical hole+double countersink	W 圆柱孔＋单面倒角40°~60° Cylindrical hole+ countersink
J 圆柱孔＋双面倒角70°~90° Cylindrical hole+double countersink	B 圆柱孔＋单面倒角70°~90° Cylindrical hole+ countersink
X 特殊设计 Special	

5 切削刃长度 Insert size

d mm	C	D	R	S	T	V	W		
5.56	05	-	-	05	09	-	03		
6.0	-	-	06	-	-	-	-		
6.35	06	07	-	06	11	11	04		
6.65	-	-	-	-	-	-	-		
7.94	07	-	-	07	-	-	-		
8.0	-	-	08	-	-	-	-		
9.525	09	09	-	09	16	16	06		
10.0	-	-	10	-	-	-	-		
12.0	-	-	12	-	-	-	-		
12.7	12	15	-	12	22	22	08		
15.875	16	19	-	15	27	-	10		
16.0	-	-	16	-	-	-	-		
16.74	-	-	-	16	-	-	-		
19.05	19	-	-	19	33	-	13		
20.0	-	-	20	-	-	-	-		
25.4	25	-	25	25	-	-	-		

04	04	T	02020	KBN25
6	7	8	9	10

6 刀片厚度 S(mm)
Insert thickness

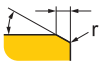
01	S=1.59
T1	S=1.98
02	S=2.38
03	S=3.18
T3	S=3.97
04	S=4.76
05	S=5.56
06	S=6.35
07	S=7.94
09	S=9.52

7 刀尖圆角半径 R
Corner rakdius

圆形刀片 Round insert
00 内切圆（英制）Inch
MO 内切圆（公制）Metric

	R (mm)
02	0.2
04	0.4
05	0.5
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
32	3.2

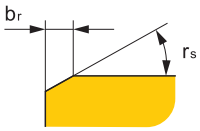
8 刃口形式
shank type

T	倒角 Chamfer	
S	倒角加倒圆 Chamfer and fillet	

10 材质
Materials

KBN25	聚方氮化硼 CBN
KPD10	聚晶金刚石 PCD

9 倒角形式
Chamfer type



倒角宽度Br以1/100mm表示，
角度Rs不带“。”

举例 Examples
0.10X20° =01020
0.05X20° =00520

PCBN系列产品 Inserts series

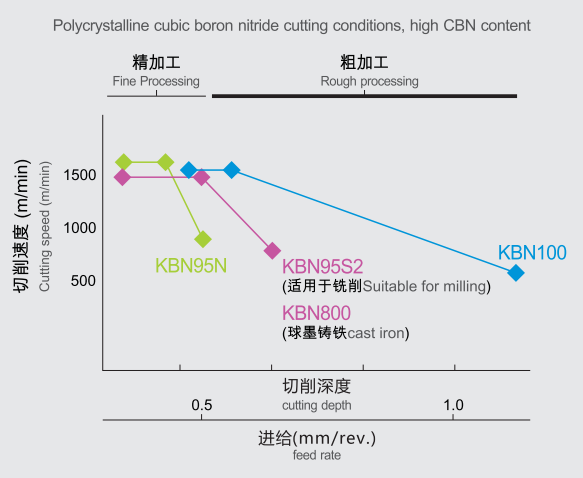
技术资料 Technical Data

背侧为硬质合金 Carbide on the back side　　整体CBN Overall CBN

	类型 Type	等级 Grade	特点 Features	应用 Application
高含量 CBN	■	KBN100	高CBN含量、粗颗粒、优秀的耐磨性 High CBN content, coarse granule, excellent wear resistance	适合粗加工铸铁和粉末金属合金 Suitable for roughing cast iron and powder metal alloys
High CBN content	▬	KBN95S2	高CBN含量、细颗粒、优秀的耐磨性与抗崩刃性 High CBN content, fine granule, excellent wear resistance and chipping resistance	适合加工各类铸铁和粉末金属合金 Suitable for roughing cast iron and powder metal alloys
	▬	KBN95N	高CBN含量及金属结合剂、优秀的耐磨性 Suitable for processing all kinds of cast iron and powder metal alloys	适合加工各类铸铁 Suitable for roughing cast iron
	▬	KBN800	耐磨和耐热特性的结合 Combination of wear and heat resistance properties	适合加工非匀质铸铁 Suitable for processing non-homogeneous cast iron
低含量 CBN	▬ ■	KBN700	细颗粒CBN与陶瓷结合剂组合、优秀的韧性及抗冲击性 Fine granule CBN combined with ceramic binder for excellent toughness and impact resistance	适合重断续加工硬钢类 Suitable for heavy interrupted hard steel
low CBN content	▬ ■	KBN650	耐磨和抗冲击特性的结合 Combination of wear and impact resistance	适合高速度断续加工硬钢类 Suitable for high speed interrupted processing of hard steel
	▬ ■	KBN630	耐磨和耐热特性的结合 Combination of wear and heat resistance properties	广泛用于连续和轻度断续加工硬钢类 Widely used for continuous and light interrupted processing of hard steels
	▬ ■	KBN600	耐磨和耐热特性的结合 Combination of wear and heat resistance properties	广泛用于连续和轻度断续加工硬钢类 Widely used for continuous and light interrupted processing of hard steels
	▬ ■	KBN500	优秀的耐热稳定性和抗月牙洼磨 Excellent heat stability and resistance to crescent	适合高速度连续加工硬钢类 Suitable for high speed interrupted processing of hard steel

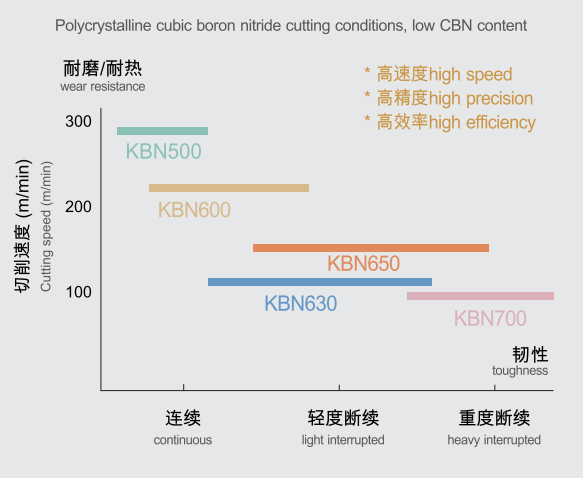
多晶立方氮化硼切削条件

高CBN含量



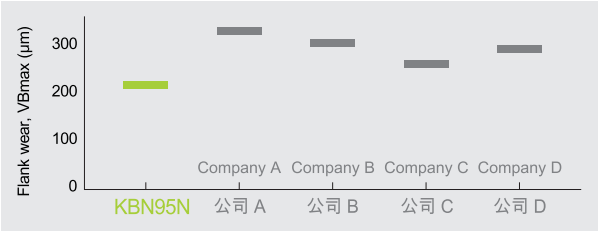
多晶立方氮化硼切削条件

低CBN含量



Cast Iron
Continuous Turning

Material	Gray cast iron
Speed	500m/min
AP	0.25mm
Feed	0.1mm/rev
Coolant	Dry
Insert type	CNGA120408
Holder type	PCLNR2525-M12



KBN95N | 公司 A Company A | 公司 B Company B | 公司 C Company C | 公司 D Company D

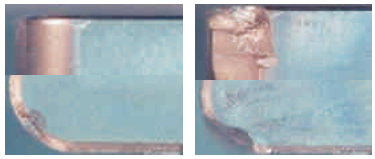
Performance Test

KBN650

Hardened Steel
Interrupted Turning

Material	Alloy steel / SCM440(H)
Hardness	HRc 55~60
Size	Ø100 × 300 mm
Path	Flank wear after 10 path cutting
Speed	150m/min
AP	0.4mm
Feed	0.1mm/rev
Coolant	Dry
Insert type	CNGA120408 T01225

Result	KBN650	公司 A
Cutting time	117.90 min	6.02 min.
Cutting length	2.68 km	0.90 km



KBN650 | 公司 H Company H

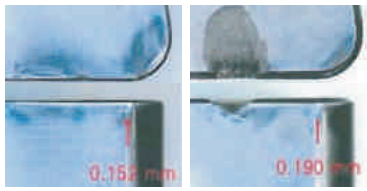
Performance Test

KBN600

Hardened Steel
cross section,internal rough maching

Material	Annulus gear(Ø145) SCr420H
Hardness	>HV650
Speed	80m/min
N	180rev/min
Feed	0.12mm/rev
Coolant	Wet

Result	KBN600	公司 S
Tool life (Pass)	4,000	2,500



KBN600 | 公司 Y Company Y

PCBN系列产品Inserts series

技术资料Technical Data

应用指南Application Guide

蘸火钢 Quenching steel	铸铁 Cast iron	粉末金属 Powder metal	超合金 Super alloy
传动星形轮 Transmission star wheel 轴承 Bearings 齿轮 Gearwheel 轴杆 Shaft 连接接头 Connector	刹车盘 Brake disc 刹车鼓 Brake drum 汽缸衬套 Cylinder liner 飞轮 Freewheel 离合器板 Clutch plate 泵叶轮 Pump impeller	传动部件 Transmission parts 扣链齿轮 Button chain gear 阀座(进气、排气) Valve base * < HRc 45 ** > HRc 45	飞机紧固件 Transmission star wheel 涡轮盘 Turbine disk
KBN100	KBN100	KBN100	KBN100
KBN95S2	KBN95S2	KBN95S2*	KBN95S2
KBN95N	KBN95N	KBN95N*	KBN95N
KBN800	KBN800	KBN800	KBN800
KBN700	KBN700	KBN700	KBN700
KBN650	KBN650	KBN650	KBN650
KBN630	KBN630	KBN630	KBN630
KBN600	KBN600	KBN600	KBN600
KBN500	KBN500	KBN500	KBN500

PCBN
使用说明Instructions for use

1.选择合理的切削参数
Choose reasonable cutting parameters

合理的切削参数可充分发挥PCBN刀具优势。
切削用量参考下表。（应根据实际加工条件和工件类型适当调整参数）

Reasonable cutting parameters give full play to the advantages of PCBN tools.
Cutting amount refers to the following table. (The parameters should be properly adjusted according to the actual processing conditions and workpiece type)

工件材料 Pcocessd material	Vc m/min	Fr mm/r	aP mm
灰铸铁 Grey Cast Iron	500~1500	0.5~0.8	0.25~1.0
冷硬铸铁 Chilled cast iron	50~120	0.1~0.6	0.1~1.2
淬硬铁（45~65HRC） Hardened iron(45~65HRC)	60~150	0.2~0.3	0.6~2.5
表面硬化合金(>35HRC) Hardened alloy(>35HRC)	80~240	0.12~0.25	0.5~2.5
硬质合金(co%>17%) carbide alloy(co%>17%)	20~40	0.1~0.25	0.1~0.5
锰钢 Manganese steel	140~200	0.3~0.7	0.2~2.9

2.PCBN刀具结合结构与寿命
PCBN tool combination structure and life

PCBN刀具一般采用负前角、较大后角和负倒棱及研磨处理来增强切刃强度和耐磨度。

此外，准确判断PCBN寿命至关重要。若刀具磨损严重，切削力和切削温度增加，切削中难以控制工件尺寸与表面完整性。建议PCBN刀具后刀面磨损量0.3~0.6mm（精车时取小值）时应进行重磨。

KOVES科维丝专业的设备和技能可提供重磨服务。

PCBN tools generally use negative rake angles, larger relief angles, and negative chamfering and lapping to increase cutting edge strength and wear resistance.

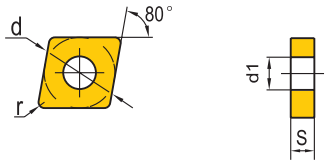
In addition, it is important to accurately determine the life of the PCBN. If the tool wears heavily, cutting force and cutting temperature increase, it is difficult to control the workpiece size and surface integrity during cutting. It is recommended that the flank wear of the PCBN tool be 0.3-0.6mm (small value when fine finishing).

Koves professional equipment and skills to provide regrind services.

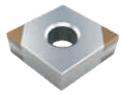
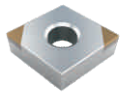
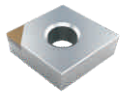
PCBN刀片系列

PCBN Inserts series

CN..

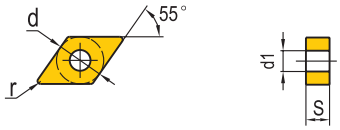


型号 Model	尺寸Size (mm)		
	d	s	d1
CN..0903..	9.525	3.18	3.18
CN..1204..	12.7	4.76	5.16
CN..1606..	15.88	6.35	6.35
CN..1906..	19.05	6.35	7.94
CN..2509..	25.4	9.53	9.12

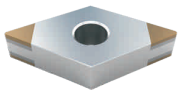
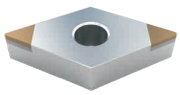
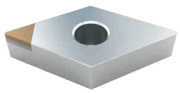
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	4NU-CNGA120404	0.4	○	●			●		●				
	4NU-CNGA120408	0.8	○	●			●		●				
	4NU-CNGA120412	1.2	○	●			●		●				
	2NU-CNGA120404	0.4	○	●			●		●				
	2NU-CNGA120408	0.8	○	●			●		●				
	2NU-CNGA120412	1.2	○	●			●		●				
	CNGA120404	0.4	○	●			●		●				
	CNGA120408	0.8	○	●			●		●				
	CNGA120412	1.2	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

DN..



型号 Model	尺寸Size (mm)		
	d	s	d1
DN..1104..	9.525	4.76	3.81
DN..1504..	12.7	4.76	5.16
DN..1506..	12.7	6.35	5.16

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	4NU-DNGA150404	0.4	○	●			●		●				
	4NU-DNGA150408	0.8	○	●			●		●				
	4NU-DNGA150412	1.2	○	●			●		●				
	4NU-DNGA150604	0.4	○	●			●		●				
	4NU-DNGA150608	0.8	○	●			●		●				
	4NU-DNGA150612	1.2	○	●			●		●				
	2NU-DNGA150404	0.4	○	●			●		●				
	2NU-DNGA150408	0.8	○	●			●		●				
	2NU-DNGA150412	1.2	○	●			●		●				
	2NU-DNGA150604	0.4	○	●			●		●				
	2NU-DNGA150608	0.8	○	●			●		●				
	2NU-DNGA150612	1.2	○	●			●		●				
	DNGA150404	0.4	○	●			●		●				
	DNGA150408	0.8	○	●			●		●				
	DNGA150412	1.2	○	●			●		●				
	DNGA150604	0.4	○	●			●		●				
	DNGA150608	0.8	○	●			●		●				
	DNGA150612	1.2	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

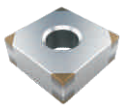
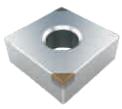
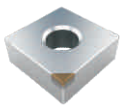
★ 首选Preferred　☆ 可选optional　● 标准库存standard stock　○ 订单生产order production

PCBN刀片系列

PCBN Inserts series

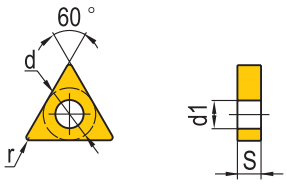
SN..

型号 Model	尺寸Size (mm)		
	d	s	d1
SN..1204..	12.7	4.76	5.16
SN..1506..	15.88	6.35	6.35
SN..1906..	19.05	6.35	7.94
SN..2509..	25.4	9.53	9.12

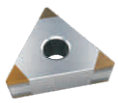
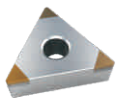
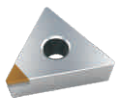
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	8NU-SNGA120404	0.4	○	●			●		●				
	8NU-SNGA120408	0.8	○	●			●		●				
	8NU-SNGA120412	1.2	○	●			●		●				
	2NU-SNGA120404	0.4	○	●			●		●				
	2NU-SNGA120408	0.8	○	●			●		●				
	2NU-SNGA120412	1.2	○	●			●		●				
	SNGA120404	0.4	○	●			●		●				
	SNGA120408	0.8	○	●			●		●				
	SNGA120412	1.2	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

TN..



型号 Model	尺寸Size (mm)		
	d	s	d1
TN..1604..	9.525	4.76	3.81
TN..2204..	12.7	4.76	5.16

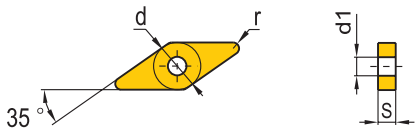
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	6NU-TNGA160404	0.4	○	●			●		●				
	6NU-TNGA160408	0.8	○	●			●		●				
	6NU-TNGA160412	1.2	○	●			●		●				
	3NU-TNGA160404	0.4	○	●			●		●				
	3NU-TNGA160408	0.8	○	●			●		●				
	3NU-TNGA160412	1.2	○	●			●		●				
	TNGA160404	0.4	○	●			●		●				
	TNGA160408	0.8	○	●			●		●				
	TNGA160412	1.2	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　● 标准库存standard stock　○ 订单生产order production

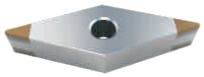
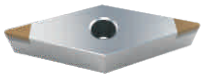
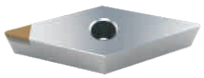
PCBN刀片系列

PCBN Inserts series

VN..

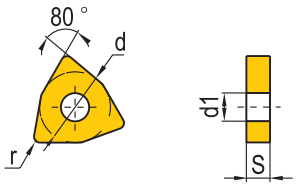


型号 Model	尺寸Size (mm)		
	d	s	d1
VN..1604..	9.525	4.76	3.81

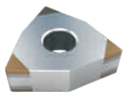
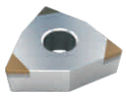
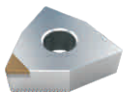
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	4NU-VNGA160404	0.4	○	●			●		●				
	4NU-VNGA160408	0.8	○	●			●		●				
	4NU-VNGA160412	1.2	○	●			●		●				
	2NU-VNGA160404	0.4	○	●			●		●				
	2NU-VNGA160408	0.8	○	●			●		●				
	2NU-VNGA160412	1.2	○	●			●		●				
	VNGA160404	0.4	○	●			●		●				
	VNGA160408	0.8	○	●			●		●				
	VNGA160412	1.2	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

WN..



型号 Model	尺寸Size (mm)		
	d	s	d1
WN..0604..	9.525	4.76	3.81
WN..0804..	12.7	4.76	5.16

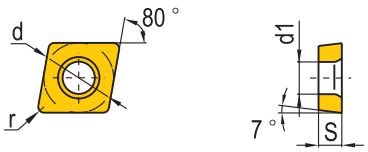
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	6NU-WNGA080404	0.4	○	●			●		●				
	6NU-WNGA080408	0.8	○	●			●		●				
	6NU-WNGA080412	1.2	○	●			●		●				
	3NU-WNGA080404	0.4	○	●			●		●				
	3NU-WNGA080408	0.8	○	●			●		●				
	3NU-WNGA080412	1.2	○	●			●		●				
	WNGA080404	0.4	○	●			●		●				
	WNGA080408	0.8	○	●			●		●				
	WNGA080412	1.2	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

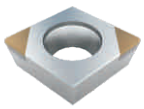
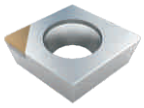
PCBN刀片系列

PCBN Inserts series

CC..

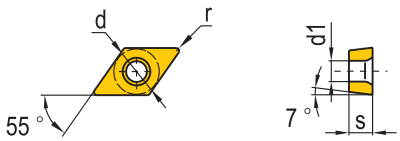


型号 Model	尺寸Size (mm)		
	d	s	d1
CC..0602..	6.35	2.38	2.8
CC..09T3..	9.525	3.97	4.4
CC..1204..	12.7	4.76	5.5

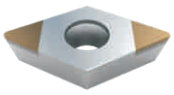
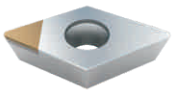
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	2NU-CCGW060202	0.2	○	●			●		●				
	2NU-CCGW060204	0.4	○	●			●		●				
	2NU-CCGW060208	0.8	○	●			●		●				
	2NU-CCGW09T302	0.2	○	●			●		●				
	2NU-CCGW09T304	0.4	○	●			●		●				
	2NU-CCGW09T308	0.8	○	●			●		●				
	CCGW060202	0.2	○	●			●		●				
	CCGW060204	0.4	○	●			●		●				
	CCGW060208	0.8	○	●			●		●				
	CCGW09T302	0.2	○	●			●		●				
	CCGW09T304	0.4	○	●			●		●				
	CCGW09T308	0.8	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

DC..



型号 Model	尺寸Size (mm)		
	d	s	d1
DC..0702..	6.35	2.38	2.8
DC..11T3..	9.525	3.97	4.4

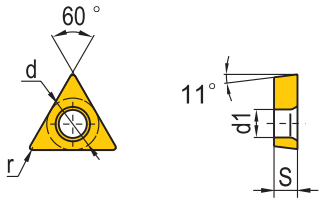
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	2NU-DCGW070202	0.2	○	●			●		●				
	2NU-DCGW070204	0.4	○	●			●		●				
	2NU-DCGW070208	0.8	○	●			●		●				
	2NU-DCGW11T302	0.2	○	●			●		●				
	2NU-DCGW11T304	0.4	○	●			●		●				
	2NU-DCGW11T308	0.8	○	●			●		●				
	DCGW070202	0.2	○	●			●		●				
	DCGW070204	0.4	○	●			●		●				
	DCGW070208	0.8	○	●			●		●				
	DCGW11T302	0.2	○	●			●		●				
	DCGW11T304	0.4	○	●			●		●				
	DCGW11T308	0.8	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　● 标准库存standard stock　○ 订单生产order production

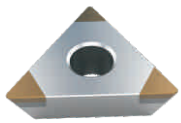
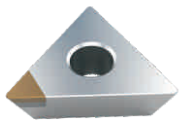
PCBN刀片系列

PCBN Inserts series

TP..

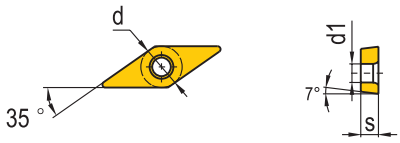


型号 Model	尺寸Size (mm) d	s	d1
TP..0802..	4.76	2.38	2.3
TP..0902..	5.56	2.38	3.0
TP..1102..	6.35	2.38	3.5
TP..1103..	6.35	3.18	3.3
TP..16T3..	9.525	3.18	4.5

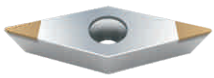
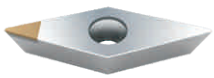
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	3NU-TPGW080202	0.2	○	●			●		●				
	3NU-TPGW080204	0.4	○	●			●		●				
	3NU-TPGW080208	0.8	○	●			●		●				
	3NU-TPGW090202	0.2	○	●			●		●				
	3NU-TPGW090204	0.4	○	●			●		●				
	3NU-TPGW090208	0.8	○	●			●		●				
	3NU-TPGW110302	0.2	○	●			●		●				
	3NU-TPGW110304	0.4	○	●			●		●				
	3NU-TPGW110308	0.8	○	●			●		●				
	3NU-TPGW16T302	0.2	○	●			●		●				
	3NU-TPGW16T304	0.4	○	●			●		●				
	3NU-TPGW16T308	0.8	○	●			●		●				
	TPGW080202	0.2	○	●			●		●				
	TPGW080204	0.4	○	●			●		●				
	TPGW080208	0.8	○	●			●		●				
	TPGW090202	0.2	○	●			●		●				
	TPGW090204	0.4	○	●			●		●				
	TPGW090208	0.8	○	●			●		●				
	TPGW110302	0.2	○	●			●		●				
	TPGW110304	0.4	○	●			●		●				
	TPGW110308	0.8	○	●			●		●				
	TPGW16T302	0.2	○	●			●		●				
	TPGW16T304	0.4	○	●			●		●				
	TPGW16T308	0.8	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

VC..



型号 Model	尺寸Size (mm)		
	d	s	d1
VC..1103..	6.35	3.18	2.8
VC..1604..	9.525	4.76	4.4

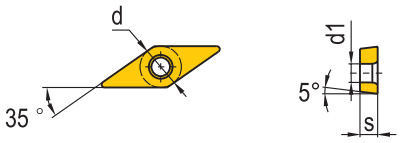
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	2NU-VCGW110302	0.2	○	●			●		●				
	2NU-VCGW110304	0.4	○	●			●		●				
	2NU-VCGW110308	0.8	○	●			●		●				
	2NU-VCGW160402	0.2	○	●			●		●				
	2NU-VCGW160404	0.4	○	●			●		●				
	2NU-VCGW160408	0.8	○	●			●		●				
	VCGW110302	0.2	○	●			●		●				
	VCGW110304	0.4	○	●			●		●				
	VCGW110308	0.8	○	●			●		●				
	VCGW160402	0.2	○	●			●		●				
	VCGW160404	0.4	○	●			●		●				
	VCGW160408	0.8	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　● 标准库存standard stock　○ 订单生产order production

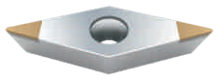
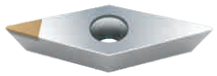
PCBN刀片系列

PCBN Inserts series

VB..

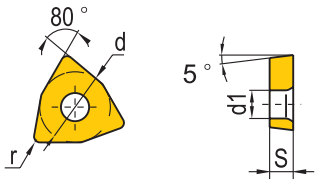


型号 Model	尺寸Size (mm)		
	d	s	d1
VB..1103..	6.35	3.18	2.8
VB..1604..	9.525	4.76	4.4

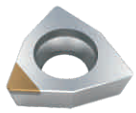
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	2NU-VBGW110302	0.2	○	●			●		●				
	2NU-VBGW110304	0.4	○	●			●		●				
	2NU-VBGW110308	0.8	○	●			●		●				
	2NU-VBGW160402	0.2	○	●			●		●				
	2NU-VBGW160404	0.4	○	●			●		●				
	2NU-VBGW160408	0.8	○	●			●		●				
	VBGW110302	0.2	○	●			●		●				
	VBGW110304	0.4	○	●			●		●				
	VBGW110308	0.8	○	●			●		●				
	VBGW160402	0.2	○	●			●		●				
	VBGW160404	0.4	○	●			●		●				
	VBGW160408	0.8	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

WB..



型号 Model	尺寸Size (mm)		
	d	s	d1
WB..0601..	3.97	1.59	2.3

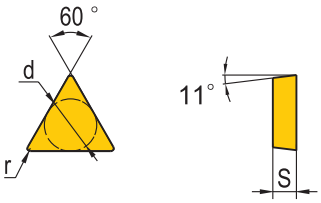
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	WBGW060102	0.2	○	●			●		●				
	WBGW060104	0.4	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　● 标准库存standard stock　○ 订单生产order production

PCBN刀片系列

PCBN Inserts series

TP..

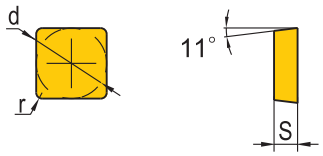


型号 Model	尺寸Size (mm) d	s
TP..0902..	5.56	2.38
TP..1103..	6.35	3.18
TP..1603..	9.525	3.18

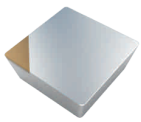
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	TPGN090204	0.4	○	●			●		●				
	TPGN090208	0.8	○	●			●		●				
	TPGN110302	0.2	○	●			●		●				
	TPGN110304	0.4	○	●			●		●				
	TPGN110308	0.8	○	●			●		●				
	TPGN160302	0.2	○	●			●		●				
	TPGN160304	0.4	○	●			●		●				
	TPGN160308	0.8	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

SP..



型号 Model	尺寸Size (mm) d	s
SP..0903..	9.525	3.18
SP..1203..	12.7	3.18

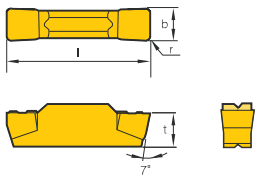
刀片外形 Insert shape	型号 Model	r	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
		刀片材质及适用加工材料 Insert grades and application											
	SPGN090304	0.4	○	●			●		●				
	SPGN090308	0.8	○	●			●		●				
	SPGN120304	0.4	○	●			●		●				
	SPGN120308	0.8	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　● 标准库存standard stock　○ 订单生产order production

PCBN刀片系列

PCBN Inserts series

MGGN..

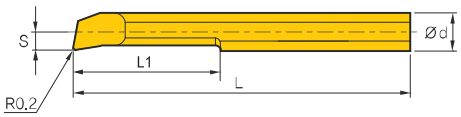


型号 Model	尺寸Size (mm)			
	b	r	t	l
MGGN150	1.5	0.15	4.8	16.0
MGGN200	2.0	0.20	4.8	16.0
MGGN250	2.5	0.20	4.8	18.5
MGGN300	3.0	0.40	4.8	21.0
MGGN400	4.0	0.40	4.8	21.0

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		W	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	MGGN150-V	1.5	○	●			●		●				
	MGGN200-V	2.0	○	●			●		●				
	MGGN250-V	2.5	○	●			●		●				
	MGGN300-V	3.0	○	●			●		●				
	MGGN400-V	4.0	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

PSBR..



型号 Model	尺寸Size (mm) d	L	L1	S
PSBR0303-50	2.8	50	25	1.4
PSBR0404-60	3.8	60	30	1.9
PSBR0505-70	4.8	70	40	2.4
PSBR0606-70	5.8	70	45	2.9
PSBR0707-80	6.8	80	60	3.4

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application											
		Dmin	倒棱 T01725	倒棱 S01725	KBN100	KBN95S2	KBN95N	KBN800	KBN700	KBN650	KBN630	KBN600	KBN500
	PSBR0303-50	3.0	○	●			●		●				
	PSBR0404-60	4.0	○	●			●		●				
	PSBR0505-70	5.0	○	●			●		●				
	PSBR0606-70	6.0	○	●			●		●				
	PSBR0707-80	7.0	○	●			●		●				
铸铁Cast Iron					★	★	★	★					
耐热合金Heat Resistant Alloy													
淬硬钢Hardened Steel									★	★	★	★	★

★ 首选Preferred　☆ 可选optional　● 标准库存standard stock　○ 订单生产order production

PCD刀片

KPD05/KPD10/KPD25

科维丝PCD刀片是采用高温高压的优质PCD和优质的硬质合金为基体焊接而成的。可满足车削、铣削等不同加工的需求。

在铝合金和铜合金加工方面有超长的刀具寿命。

在非合金材料，如陶瓷、石材、橡胶、石墨、石材等方面加工性能优越。

Koves PCD blade adopt high temperature and high pressure PCD material welding on superior hard alloy substrate.

It can meet all kinds of processing demands of turning and milling.It has the ultra long tool life in the aluminum alloy and copper alloy processing.

It also has superior in non alloy materials such as ceramics,stone,rubber,graphite,wood and so on.

PCD刀片系列

PCD Inserts series

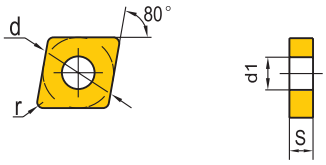
PCD材质 PCD material

材质 Grades	特性 Characteristic	应用 Application	颗粒尺寸 Grain size (μm)	硬度 Hardness (Hv)	抗弯强度 Bending strength (kgf)
KPD05	超微颗粒钻精华，可以制造锋利切削刃，是有色金属加工的合适材质 Ultra fine particle drilling essence, can make sharp cutting edge, It is a suitable material for non-ferrous metal processing	塑料、木头、铝合金精加工 Plastic,wood, aluminum alloy processing.	5 μm	10,000 ~ 12,000	220
KPD10	细颗粒的材质，粒度精密，适合有色金属、石墨加工 Fine particle material, fine granularity, suitable for non-ferrous metals, graphite processing	高硅铝合金、紫青铜合金、橡胶、木头、石墨加工 High silicon aluminum alloy, purple bronze alloy, rubber, wood, graphite processing	10 μm	10,000 ~ 12,000	200
KPD25	粗颗粒的材质具有杰出的耐磨性用于高硅铝合金和硬质合金加工 Rough grained material has excellent wear resistance For high silicon aluminum alloy and cemented carbide processing	硬质合金、陶瓷粗加工、高硅铝合金、岩石、石材 Carbide, ceramic rough processing, high silicon aluminum alloy, rock, stone	25 μm	10,000 ~ 12,000	110

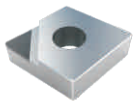
推荐切削条件 Recommended cutting conditions

被加工材质 Processed material	切削速度 Cutting speed (m/min)	进给 Feeding (mm/rev)	切深 Cut deep (mm)	推荐材质 Recommended material	
				1st	2nd
铝合金（4%~8% Si） Aluminum alloy (4%~8%, Si)	1000~3000	0.1~0.6	~3	KPD10	KPD25
铝合金（9%~14% Si） Aluminum alloy (9%~14%, Si)	600~2500	0.1~0.5	~3	KPD10	KPD25
铝合金（15%~18% Si） Aluminum alloy (15%~18%, Si)	300~700	0.1~0.4	~3	KPD10	KPD25
紫铜，青铜合金 Red copper, bronze alloy	~1000	0.05~0.2	~3	KPD10	KPD25
高强度塑料 High strength plastic	~1000	0.1~0.3	~2	KPD10	KPD25
木材 wood	~4000	0.1~0.4	–	KPD10	KPD25
硬质合金 Cemented carbide	10~30	~0.2	~0.5	KPD05	KPD10

CN..



型号 Model	尺寸Size (mm)		
	d	s	d1
CN..0903..	9.525	3.18	3.81
CN..1204..	12.7	4.76	5.16
CN..1606..	15.88	6.35	6.35
CN..1906..	19.05	6.35	7.94
CN..2509..	25.4	9.53	9.12

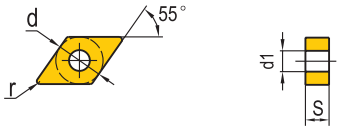
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	CNMM120402	0.2	1		●	
	CNMM120404	0.4	1		●	
	CNMM120408	0.8	1		●	
	CNMM120412	1.2	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

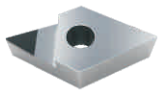
PCD刀片系列

PCD Inserts series

DN..

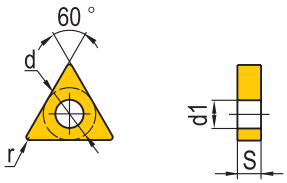


型号 Model	尺寸Size (mm)		
	d	s	d1
DN..1104..	9.525	4.76	3.81
DN..1504..	12.7	4.76	5.16
DN..1506..	12.7	6.35	5.16

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	DNMM150402	0.2	1		●	
	DNMM150404	0.4	1		●	
	DNMM150408	0.8	1		●	
	DNMM150412	1.2	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

TN..



型号 Model	尺寸Size (mm)		
	d	s	d1
TN..1604..	9.525	4.76	3.81
TN..2204..	12.7	4.76	5.16

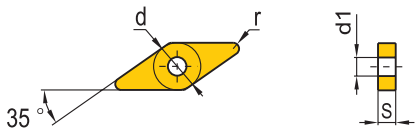
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	TNMM160402	0.2	1		●	
	TNMM160404	0.4	1		●	
	TNMM160408	0.8	1		●	
	TNMM160412	1.2	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

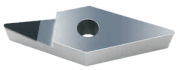
PCD刀片系列

PCD Inserts series

VN..

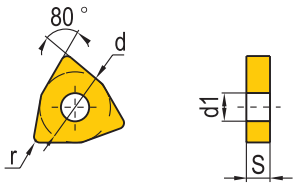


型号 Model	尺寸Size (mm)		
	d	s	d1
VN..1604..	9.525	4.76	3.81

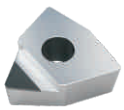
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	VNMM160402	0.2	1		●	
	VNMM160404	0.4	1		●	
	VNMM160408	0.8	1		●	
	VNMM160412	1.2	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

WN..



型号 Model	尺寸Size (mm)		
	d	s	d1
WN..0604..	9.525	4.76	3.81
WN..0804..	12.7	4.76	5.16

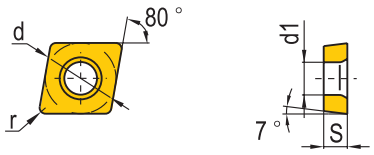
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	WNMM080402	0.2	1		●	
	WNMM080404	0.4	1		●	
	WNMM080408	0.8	1		●	
	WNMM080412	1.2	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

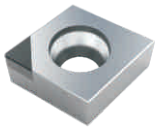
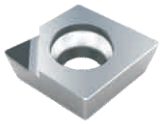
PCD刀片系列

PCD Inserts series

CC..

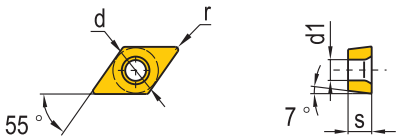


型号 Model	尺寸Size (mm)		
	d	s	d1
CC..0301..	3.5	1.4	1.9
CC..0401..	4.3	1.8	2.3
CC..0602..	6.35	2.38	2.8
CC..09T3..	9.525	3.97	4.4

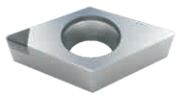
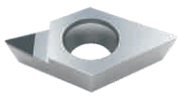
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	CCGW040101	0.1	1		●	
	CCGW040102	0.2	1		●	
	CCGW040104	0.4	1		●	
	CCGW060201	0.1	1		●	
	CCGW060202	0.2	1		●	
	CCGW060204	0.4	1		●	
	CCGW09T301	0.1	1		●	
	CCGW09T302	0.2	1		●	
	CCGW09T304	0.4	1		●	
	CCGW09T308	0.8	1		●	
	CCMT060201	0.1	1		●	
	CCMT060202	0.2	1		●	
	CCMT060204	0.4	1		●	
	CCMT09T301	0.1	1		●	
	CCMT09T302	0.2	1		●	
	CCMT09T304	0.4	1		●	
	CCMT09T308	0.8	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

DC..



型号 Model	尺寸Size (mm)		
	d	s	d1
DC..0702..	6.35	2.38	2.8
DC..11T3..	9.525	3.97	4.4

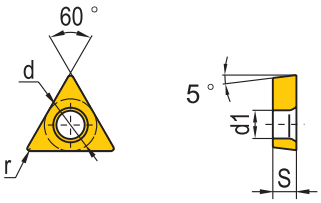
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	DCGW070201	0.1	1		●	
	DCGW070202	0.2	1		●	
	DCGW070204	0.4	1		●	
	DCGW11T301	0.1	1		●	
	DCGW11T302	0.2	1		●	
	DCGW11T304	0.4	1		●	
	DCGW11T308	0.8	1		●	
	DCMT070201	0.1	1		●	
	DCMT070202	0.2	1		●	
	DCMT070204	0.4	1		●	
	DCMT11T301	0.1	1		●	
	DCMT11T302	0.2	1		●	
	DCMT11T304	0.4	1		●	
	DCMT11T308	0.8	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCD刀片系列

PCD Inserts series

TB..

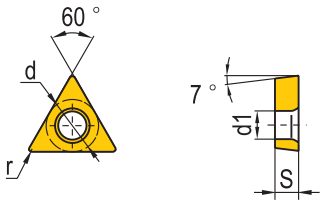


型号 Model	尺寸Size (mm)		
	d	s	d1
TB..0601..	3.97	1.59	2.3

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	TBGW060101	0.1	1		●	
	TBGW060102	0.2	1		●	
	TBGW060104	0.4	1		●	
	TBMT060101	0.1	1		●	
	TBMT060102	0.2	1		●	
	TBMT060104	0.4	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

TC..



型号 Model	尺寸Size (mm)		
	d	s	d1
TC..0902..	5.56	2.38	2.5
TC..1102..	6.35	2.38	2.5
TC..1103..	6.35	2.38	2.8
TC..16T3..	9.525	3.97	4.4

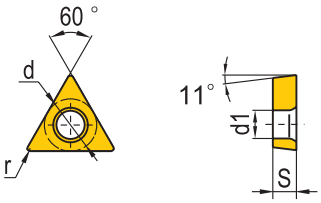
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	TCGW090201	0.1	1		●	
	TCGW090202	0.2	1		●	
	TCGW090204	0.4	1		●	
	TCGW110301	0.1	1		●	
	TCGW110302	0.2	1		●	
	TCGW110304	0.4	1		●	
	TCGW110308	0.8	1		●	
	TCMT090201	0.1	1		●	
	TCMT090202	0.2	1		●	
	TCMT090204	0.4	1		●	
	TCMT110301	0.1	1		●	
	TCMT110302	0.2	1		●	
	TCMT110304	0.4	1		●	
	TCMT110308	0.8	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCD刀片系列

PCD Inserts series

TP..

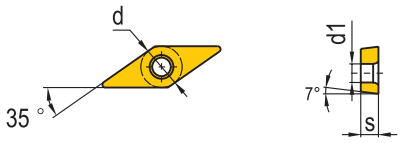


型号 Model	尺寸Size (mm) d	s	d1
TP..0802..	4.76	2.38	2.3
TP..0902..	5.56	2.38	3.0
TP..1102..	6.35	2.38	3.5
TP..1103..	6.35	3.18	3.3
TP..16T3....	9.525	3.18	4.5

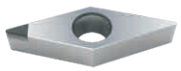
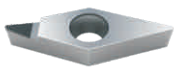
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application r	刀尖数 Corner	KPD05	KPD10	KPD25
	TPGW080201	0.1	1		●	
	TPGW080202	0.2	1		●	
	TPGW080204	0.4	1		●	
	TPGW090201	0.1	1		●	
	TPGW090202	0.2	1		●	
	TPGW090204	0.4	1		●	
	TPGW110301	0.1	1		●	
	TPGW110302	0.2	1		●	
	TPGW110304	0.4	1		●	
	TPMT080201	0.1	1		●	
	TPMT080202	0.2	1		●	
	TPMT080204	0.4	1		●	
	TPMT090201	0.1	1		●	
	TPMT090202	0.2	1		●	
	TPMT090204	0.4	1		●	
	TPMT110301	0.1	1		●	
	TPMT110302	0.2	1		●	
	TPMT110304	0.4	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ●标准库存standard stock ○订单生产order production

VC..



型号 Model	尺寸Size (mm)		
	d	s	d1
VC..1103..	6.35	3.18	2.8
VC..1604..	9.525	4.76	4.4

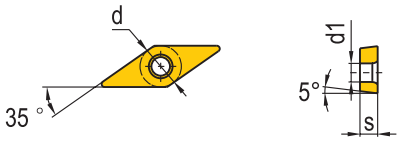
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	VCGW110301	0.1	1		●	
	VCGW110302	0.2	1		●	
	VCGW110304	0.4	1		●	
	VCGW110308	0.8	1		●	
	VCGW160401	0.1	1		●	
	VCGW160402	0.2	1		●	
	VCGW160404	0.4	1		●	
	VCGW160408	0.8	1		●	
	VCMT110301	0.1	1		●	
	VCMT110302	0.2	1		●	
	VCMT110304	0.4	1		●	
	VCMT110308	0.8	1		●	
	VCMT160401	0.1	1		●	
	VCMT160402	0.2	1		●	
	VCMT160404	0.4	1		●	
	VBMT160408	0.8	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

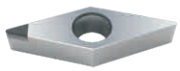
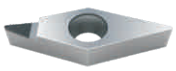
PCD刀片系列

PCD Inserts series

VB..

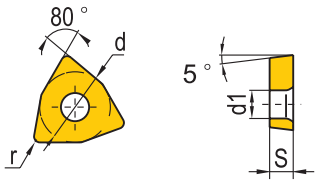


型号 Model	尺寸Size (mm)		
	d	s	d1
VB..1103..	6.35	3.18	2.8
VB..1604..	9.525	4.76	4.4

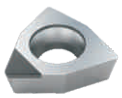
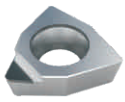
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	VBGW110301	0.1	1		●	
	VBGW110302	0.2	1		●	
	VBGW110304	0.4	1		●	
	VBGW110308	0.8	1		●	
	VBGW160401	0.1	1		●	
	VBGW160402	0.2	1		●	
	VBGW160404	0.4	1		●	
	VBGW160408	0.8	1		●	
	VBMT110301	0.1	1		●	
	VBMT110302	0.2	1		●	
	VBMT110304	0.4	1		●	
	VBMT110308	0.8	1		●	
	VBMT160401	0.1	1		●	
	VBMT160402	0.2	1		●	
	VBMT160404	0.4	1		●	
	VBMT160408	0.8	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

WB..



型号 Model	尺寸Size (mm)		
	d	s	d1
WB..0601..	3.97	1.59	2.3

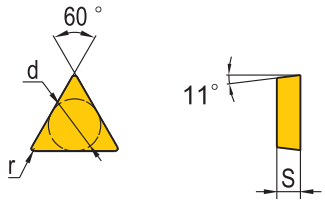
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	WBGW060101	0.1	1		●	
	WBGW060102	0.2	1		●	
	WBGW060104	0.4	1		●	
	WBMT060101	0.1	1		●	
	WBMT060102	0.2	1		●	
	WBMT060104	0.4	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCD刀片系列

PCD Inserts series

TP..

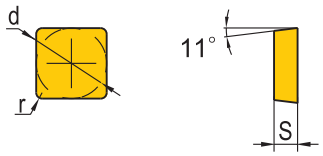


型号 Model	尺寸Size (mm) d	s
TP..0902..	5.56	2.38
TP..1103..	6.35	3.18
TP..1603....	9.525	3.18

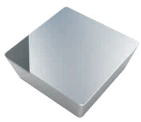
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application r	刀尖数 Corner	KPD05	KPD10	KPD25
	TPGN090201	0.1	1		●	
	TPGN090202	0.2	1		●	
	TPGN090204	0.4	1		●	
	TPGN090208	0.8	1		●	
	TPGN110302	0.2	1		●	
	TPGN110304	0.4	1		●	
	TPGN110308	0.8	1		●	
	TPGN160302	0.2	1		●	
	TPGN160304	0.4	1		●	
	TPGN160308	0.8	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

SP..



型号 Model	尺寸Size (mm)	
	d	s
SP..0903..	9.525	3.18
SP..1203..	12.7	3.18

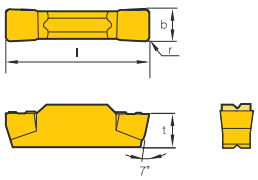
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		r	刀尖数 Corner	KPD05	KPD10	KPD25
	SPGN090302	0.2	1		●	
	SPGN090304	0.4	1		●	
	SPGN090308	0.8	1		●	
	SPGN120304	0.4	1		●	
	SPGN120308	0.8	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ●标准库存standard stock ○订单生产order production

PCD刀片系列

PCD Inserts series

MGGN..

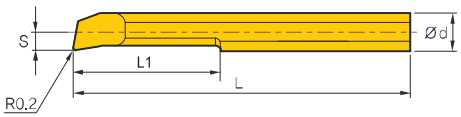


型号 Model	尺寸Size (mm)			
	b	r	t	l
MGGN150	1.5	0.15	4.8	16.0
MGGN200	2.0	0.20	4.8	16.0
MGGN250	2.5	0.20	4.8	18.5
MGGN300	3.0	0.40	4.8	21.0
MGGN400	4.0	0.40	4.8	21.0

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		w	刀尖数 Corner	KPD05	KPD10	KPD25
	MGGN150	1.5	1		●	
	MGGN200	2.0	1		●	
	MGGN250	2.5	1		●	
	MGGN300	3.0	1		●	
	MGGN400	4.0	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred　☆ 可选optional　●标准库存standard stock　○订单生产order production

PSBR..



型号 Model	尺寸Size (mm)			
	d	L	L1	S
PSBR0303-50	2.8	50	25	1.4
PSBR0404-60	3.8	60	30	1.9
PSBR0505-70	4.8	70	40	2.4
PSBR0606-70	5.8	70	45	2.9
PSBR0707-80	6.8	80	60	3.4

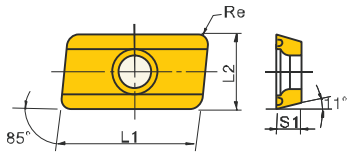
刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		Dmin	刀尖数 Corner	KPD05	KPD10	KPD25
	PSBR0303-50	3.0	1		●	
	PSBR0404-60	4.0	1		●	
	PSBR0505-70	5.0	1		●	
	PSBR0606-70	6.0	1		●	
	PSBR0707-80	7.0	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

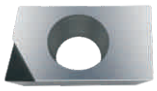
PCD刀片系列

PCD Inserts series

AP..

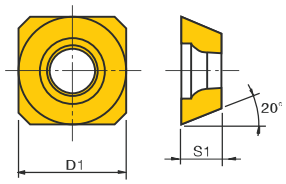


型号 Model	尺寸Size (mm) L2	L1	S
AP..1135..	6.6	11.3	3.6
AP..1604..	9.56	16.4	4.76

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application Re	刀尖数 Corner	KPD05	KPD10	KPD25
	APMT113504	0.4	1		●	
	APMT113508	0.8	1		●	
	APMT113512	1.2	1		●	
	APKT160404	0.4	1		●	
	APKT160408	0.8	1		●	
	APKT160412	1.2	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ●标准库存standard stock ○订单生产order production

SEKT..



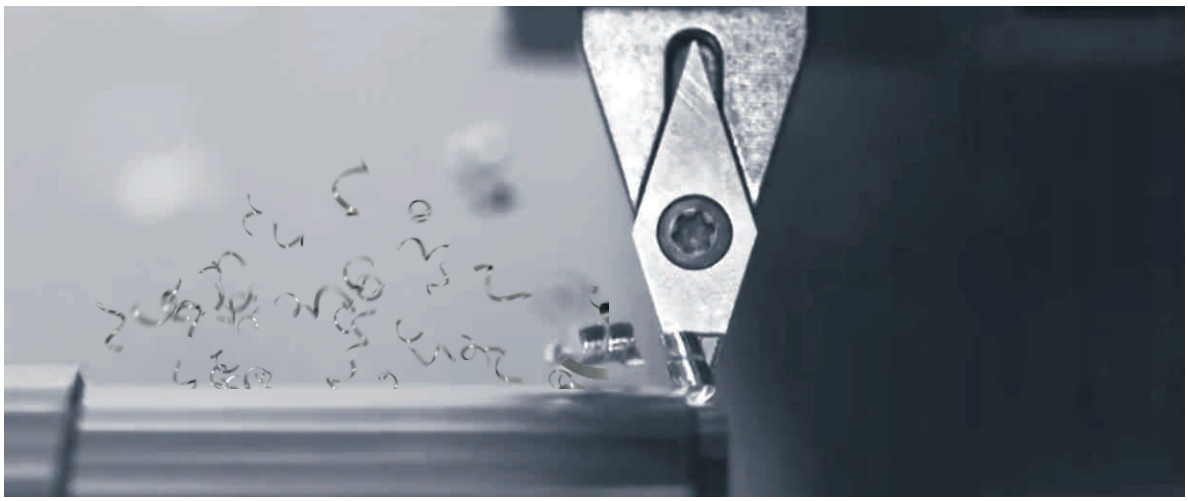
型号 Model	尺寸Size (mm)	
	d1	s1
SEKT1204..	12.7	4.76

刀片外形 Insert shape	型号 Model	刀片材质及适用加工材料 Insert grades and application				
		Re	刀尖数 Corner	KPD05	KPD10	KPD25
	SEKT1204AFFN	C0.45	1		●	
有色金属Nonferrous Metal					★	
耐热合金Heat Resistant Alloy					☆	

★ 首选Preferred ☆ 可选optional ● 标准库存standard stock ○ 订单生产order production

PCD断屑槽刀片

PCD Chipbreaker inserts



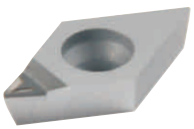
我们的优势：

(1)PCD断屑槽型刀片，效率高、寿命长。
(2)可让内孔加工排屑更顺畅，满足高加工表面要求。
(3)可防止不顺畅排屑造成的刀具损坏、刀杆断裂、工件报废。
(4)有效应对自动化生产线中出现的缠屑、切屑划伤工件表面等问题。

CCGT09T304 FA KPD10

Our advantage:

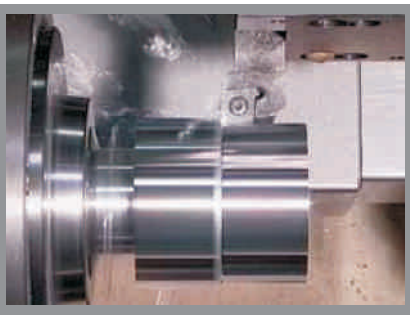
(1) PCD chipbreaker insert has more high effiency,long life.
(2) It can make the hole processing of chip removal more smoothly, and meet the high processing surface requirements.
(3) It can prevent tool damage, cutter breakage and workpiece scrapping caused by unsmooth chip removal.
(4) Effectively cope with problems such as scraps, chips and scratches on the workpiece surface in automated production lines.



DCGT11T304 FA KPD10

排屑效果对比：

Turning contrast



带断屑槽
With chipbreaker

不带断屑槽
Without chipbreaker

超硬刀具
Diamond tool

我们注重细节的控制，无论是简单的刀片还是到复杂的钻铰刀，在每一道工序做质量的检验与控制，强调质量是生产出来的而不是检验出来的，确保满足并超越您的预想！

we pay attention to detail control,whether it is a simple blade or complex drilling and reamer,we care every processing testing and controlling,we always keep in mind the quality is not only by checking but also by controlling when production.we promise you we will satisfy you and exceed your expectation.

以上产品只展示部分，如有需要敬请联系我司销售人员订购。
Above tools is only part of Koves, If any necessary, pls contact our sales department for order.

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