

DIAMOND INDUSTRIAL AREA, ZHENGZHOU, HENAN, CHINA 450000

WWW.SINOSEIKO.COM

产品目录 Product Catalogue



金刚石复合片(PDC)

- ◆地质勘探煤田钻采用金刚石复合片 PDC for Geology Exploring and Mining Field
- ◆石油钻井用金刚石复合片 PDC for Oil Drilling
- ◆异形金刚石复合片 Special Shape PDC
 - ★锥形金刚石复合片 Conical PDC (JCZ series)
 - ★球形金刚石复合片 Spherical PDC (JCB series)
 - ★屋脊形和钢盔形金刚石复合片 WJ PDC and GK PDC Cutters

工具(Tools)

- ◆聚晶立方氮化硼及聚晶金刚石复合片 PCBN/PCD Compact
- ◆聚晶立方氮化硼刀具 PCBN Cutting Tool
- ◆聚晶金刚石刀具 PCD Cutting Tool
- ◆大单晶金刚石 Large Single Crystal Synthetic Diamond



地质勘探煤田钻采用金刚石复合片

PDC for Geology Exploring and Mining Field

公司引进美国技术，采用新型高效触媒及新工艺，生产的地质煤田系列金刚石复合片具有较高的磨耗比和抗冲击性能，同时改进了金刚石层和硬质合金界面的结合方式，改善了应力分布，使结合面更为牢固，大大提高了产品的可靠性和使用寿命，具有较高的性价比。

PDC for geology exploring and coalfield mining series have high abrasion resistance and impact resistance through adopting advanced technology. Meanwhile we have improved the structure of interface combination between polycrystalline diamond layer and tungsten carbide substrate which can improve the distribution of stress and make the interface firm and steady. So this series of production are reliable, durable for years while high cost-effective.

W系列以其稳定的质量和产品性能，得到国内外客户的认可。

W series has been recognized both at home and abroad through the steady quality and product performance.

规格型号 Size	直径 Diameter	高度 Height	金刚石层厚度 Thickness of diamond	适用范围 Application
W0804	8.00	4.5	0.8-1.8	适用于f5-f7岩层 (砾石岩 大理岩 石灰岩 石英) Rock grade:f5-f7 (Bibbey-rock Marble Limestone Quartz)
W0808	8.00	8.0	1.2-2.5	
W1004	10.40	4.5	0.8-1.8	
W1204	12.40	4.5	0.8-1.8	
W1304	13.33	4.5	0.8-1.8	
W1305	13.33	5.0	0.8-1.8	
W1008	10.45	8.0	1.2-2.5	
W1308	13.44	8.0	1.2-2.5	
W1604	16.05	4.5	0.8-1.8	适用于f7-f9岩层 (花岗岩 玄武岩 正长岩) Rock grade:f7-f9 (Granite Basalts Syenite)
W1608	16.05	8.0	1.2-2.5	
W1906	19.05	6.5	1.2-2.5	
W1908	19.05	8.0	1.2-2.5	



地质勘探煤田钻采用金刚石复合片 PDC for Geology Exploring and Mining Field

公司引进美国技术，采用新型高效触媒及新工艺，生产的地质煤田系列金刚石复合片具有较高的磨耗比和抗冲击性能，同时改进了金刚石层和硬质合金界面的结合方式，改善了应力分布，使结合面更为牢固，大大提高了产品的可靠性和使用寿命，具有较高的性价比。

PDC for geology exploring and coalfield mining series have high abrasion resistance and impact resistance through adopting advanced technology. Meanwhile we have improved the structure of interface combination between polycrystalline diamond layer and tungsten carbide substrate which can improve the distribution of stress and make the interface firm and steady. So this series of production are reliable, durable for years while high cost-effective.

E系列通过对产品工艺的改进，具有更高的磨耗比和抗冲击性。卓越的性能获得了客户的一致认可。

E series have higher wear resistance and impact resistance by improving process.

规格型号 Size	直径 Diameter	高度 Height	金刚石层厚度 Thickness of diamond	适用范围 Application
E0804	8.00	4.5	0.8-1.8	适用于f6-f8岩层 (砾石岩 大理岩 石灰岩 石英 花岗岩) Rock grade:f6-f8 (Bibbey-rock Marble Limestone Quart Granite)
E0808	8.00	8.0	1.2-2.5	
E1004	10.40	4.5	0.8-1.8	
E1204	12.40	4.5	0.8-1.8	
E1304	13.33	4.5	0.8-1.8	
E1305	13.33	5.0	0.8-1.8	
E1008	10.45	8.0	1.2-2.5	
E1308	13.44	8.0	1.2-2.5	
E1604	16.05	4.5	0.8-1.8	适用于f8-f10 (岩层 花岗岩 玄武岩 正长岩 角页岩) Rock grade:f8-f10 (Granite basalts syenite hornfels)
E1608	16.05	8.0	1.2-2.5	
E1906	19.05	6.5	1.2-2.5	
E1908	19.05	8.0	1.2-2.5	



石油钻井用金刚石复合片

PDC for Oil Drilling

公司生产的石油复合片使用了更高级别的金刚石微粉和硬质合金基体，聚晶金刚石层中的金刚石晶粒之间具有完整的C-C键结合的显微特征，使金刚石层具有高强度、高硬度及高耐磨性。采用多种齿型结构和特殊的后期处理工艺，有效的降低了金刚石复合片的残余应力，界面结合更牢固、均匀，具有较高的热稳定性和较强的抗冲击韧性等特点。

PDC for oil drilling bits series is produced by using the higher degree of diamond powder and tungsten carbide substrate. Microstructure with complete C-C bond combination is characterized between the grains of the diamond in polycrystalline diamond layer, which allows the high strength, hardness and wearing property of diamond layer. We adopt many types of claw structure of the interface between diamond layer and tungsten carbide substrate, and use the special technological late conditions in order to effectively reduce residual stress of PDC while make the interface combination firmer and more symmetrical. So applied to oil drill bits, PDC displays satisfying thermal stability, higher impact resistance and excellent performance.

石油系列产品序列表/Size

产品型号 Product Size	直径 Diameter (mm)	高度 Height (mm)	YD系列	ES系列
1916	19.05	16.0	●	●
1913	19.05	13.2	●	●
1910	19.05	10.0	●	●
1908	19.05	10.0	●	●
1613	16.05	13.2	●	●
1610	16.05	10.0	●	●
1608	16.05	8.0	●	●
1310	13.44	10.0	●	●
1313	13.44	13.2	●	●
1308	13.44	8.0	●	●

屋脊形和钢盔形金刚石复合片

WJ PDC and GK PDC cutters



该产品耐磨性高，抗冲击韧性强，由于此种复合片采用特殊斜面结构设计，不但可以防止复合片局部受力集中，同时还可以减少复合片崩边现象的发生。主要应用于制造石油钻头以及煤田、地质钻头。

PDC cutter called WJ has excellent wear-ability and impact toughness. And with the special shape design of the diamond layer, compared with the cylinder PDC cutters, WJ PDC cutters have a better performance, which can avoid the PDC force too centralized, so that reducing the PDC damage. Mainly used for making roller bits, coal mining bits and geological bits.

The spherical prominence of GK PDC will disperse the impact force. Especially when it meet with pebble layer, the spherical prominence will crack up the gravel or squeeze the gravel into the gap of the pebble layer so that it can reduce the shake, improve the drilling speed and prolong service life.

屋脊钢盔形产品序列列表/Size

产品型号 Size	直径 Diameter (mm)	高 Height (mm)
1308	13.44	8.00
1306	13.33	6.00

锥形金刚石复合片

Conical PDC insert (JCZ series)

主要用于石油牙轮钻头的主切削齿或保径齿，用于高时效要求的潜孔钻头制造和高品级矿用截齿的制作。

Mainly used for gage protection or as main cutting teeth of roller bit for petroleum drilling. Can also for DTH bit requiring high efficiency.



锥形产品序列列表/ Size

产品型号 Size	直径 Diameter (mm)	高 Height (mm)	复合层 Height of column (mm)
JCZ1016	10.2	16.5	9
JCZ1118	11.2	18.5	10
JCZ1318	13.2	18	8.5
JCZ1419	14	19	12
JCZ1217	12.2	17	8
JCZ2428	24	28	16

球形金刚石复合片

Spherical PDC (JCB series)

主要用于石油牙轮钻头制造，也用于中小钎头，潜孔钻头等。其耐磨性好，具有很高的抗冲击韧性，可用于冲击钻进。

Mainly for roller bit for petroleum drilling, can also for small and medium-sized button bit, DTH bit. With good wear ability and better impact toughness, it can be for percussion drilling.



球形产品序列列表/ Size

型号	直径 Diameter (mm)	高度 Height (mm)	球冠半径 Radius of sphere top (mm)
JCB1016	10.40	16.00	5.50
JCB1318	13.40	18.00	7.50
JCB1621	16.05	21.00	9.00
JCB1926	19.05	26.00	10.50

聚晶立方氮化硼 及聚晶金刚石复合片 PCBN/PCD Compact



PCBN复合片 Polycrystalline Cubic Boron Nitride Cutting Material

牌号	粒度 (μm)	适用范围及特点
BN8001	10-20	灰口铸铁及铸钢件粗精加工; 耐磨性好, 抗冲击强度高, 切深量大 finish and rough machining of gray cast iron and cast steel; good wear-resistance, high impact resistance and large cutting depth
ZTPF003	3-6	灰口铸铁精加工, 耐磨性好, 加工表面光洁度高 finish machining of gray cast iron; good wear-resistance, excellent surface finish
BN7000	2	铸铁、粉末金属、淬火钢的精加工, 适用范围广 finish machining of cast iron, powdered metal and hardened steel; wide range of application
BS-60	2	淬火钢断续精加工, 抗冲击性能强 interrupted finish machining of hardened steel; high impact resistance
BS-55	2	淬火钢连续及轻度断续精加工, 耐磨性好 continuous/mild interrupted finish machining of hardened steel; good wear-resistance
BN50	1	淬火钢连续精加工, 高转速, 加工表面光洁度高 continuous finish machining of hardened steel; high speed running, high-quality surface finish.

PCD复合片 Polycrystalline Diamond Cutting Material

牌号	粒度 (μm)	适用范围及特点
YLD02	2	适合铝、铜、贵金属、电子材料 精加工, 超高表面光洁度、高韧性 finish machining of aluminium, copper, noble metal, electronic material; high surface finish, high tenacity
YLD05	5	适合铝、铜、复合木板的加工, 高韧性、高表面光洁度 suitable for aluminium, copper, composite wood; high tenacity, high surface finish
YLD10	10	适合硅铝合金、铜合金、石墨及其复合材料、硬质合金的加工, 耐磨性高、韧性好、表面光洁度好 suitable for silicon-aluminium alloy, copper alloy and related composite material, cemented carbide; good wear-resistance, high toughness, high surface finish
YLD25	25	适合硅铝合金、金属及复合材料、烧结陶瓷的加工, 极高的耐磨性 suitable for silicon-aluminium alloy, metal and related composite material, sintered ceramic; extremely high wear resistance
YLD2505	5~25	适合玻璃纤维、纤维板、层叠地板的加工, 极高的耐磨性、高韧性、高光洁度 suitable for glass fiber, fiberboard, laminated flooring; extremely high wear-resistance, high toughness and surface finish

聚晶立方氮化硼刀具 PCBN Cutting Tool

公司生产的CBN刀具专注于齿轮、轴承、耐高温粉末冶金精加工，以及发动机缸体、变速箱壳体等铸铁工件端面的精铣加工。

We provide a range of CBN cutting tools. It has been used extensively in the finish machining of gear, bearing, powder metallurgy superalloy, and finish-milling of cast iron workpiece, for example engine cylinder block, shell of gearbox ect.



▲1



▲2



▲3



▲7



▲8



▲9



应用领域 Application Fields

- ▲1. 缸套 Cylinder Liner
- ▲2. 发动机气门座 Valve Spring Retainer
- ▲3. 气门 Valve
- ▲4. 缸体 Cylinder Blocks
- ▲5. 转向节 Knuckle
- ▲6. 曲轴 Crankshaft
- ▲7. 球笼 Birfield Ball-joint
- ▲8. 同步器 Synchronizer
- ▲9. 离合器压盘 Clutch Pressure Plate
- ▲10. 离合器轴承齿轮 Clutch Bearing Clutch Gear
- ▲11. 变速箱壳体 Gearbox Shell
- ▲12. 汽车减壳 Rear Axle Driver
- ▲13. 刹车盘 Brake Disc
- ▲14. 刹车毂 Brake Drum
- ▲15. 回转支承 Slewing Bearing
- ▲16. 直线导轨 Linear Guide
- ▲17. 火车轴承 Train Bearing
- ▲18. 蜗轮蜗杆 Turbine Vortex Rod
- ▲19. 齿轮轴承 Gear Bearing
- ▲20. 风电轴承 Wind Power Bearing

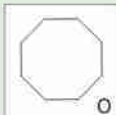
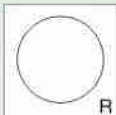
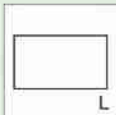
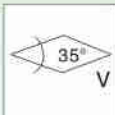
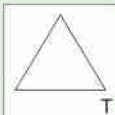
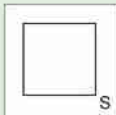
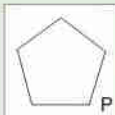
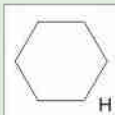
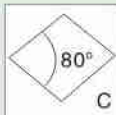
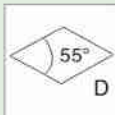


SINO SEIKO 華夏精工

DIAMOND INDUSTRIAL AREA, ZHENGZHOU, HENAN, CHINA 450000

www.sinoseiko.com

contact@sinoseiko.com



聚晶金刚石刀具 PCD Cutting Tool

公司生产的PCD刀具专注于铝合金、铜合金、石墨、陶瓷的加工，我们有专业的研发团队和工程师团队，为帮助客户选择和使用最合适的型号，提供全面的技术资料和专家意见。

Our Diamond is PCD cutting tool professional manufacturer specializing in machining of aluminium alloys, copper alloys, graphite and ceramics. We have professional r&d team and engineer team. So as to aid customers in the selection and application of the most appropriate grade, we offer comprehensive technical literature and expert advice from our application engineering team.



应用领域 Application Fields

- ▲① 发动机缸盖 Cylinder Head
- ▲② 木工刀具 Wood Cutting Tool
- ▲③ 活塞 Piston
- ▲④ 涡轮增压器 Turbocharger
- ▲⑤ 硬质合金 Cemented Carbide
- ▲⑥ 铜合金轴承 Copper alloy Bearing
- ▲⑦ 石墨 Graphite
- ▲⑧ 墙体开槽刀 Grooving Tool
- ▲⑨ 陶瓷 Ceramics
- ▲⑩ 离合器壳体 Clutch Shell
- ▲⑪ 汽车铝轮毂 Aluminum Wheel







大单晶金刚石

Large Single Crystal Synthetic Diamond

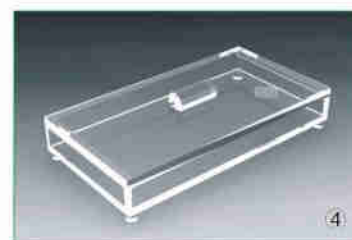
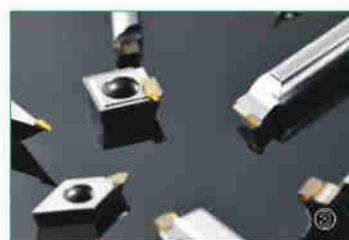
公司主要生产工业级单晶和单晶片，用于有色金属及非金属材料的切削刀具，砂轮修整工具，抛光工具，耐磨件和拉丝模等，如手机外壳，亚克力，贵金属首饰，活塞等精加工工具。

The company mainly produce industry-leading single crystal synthetic diamond, Mono series are used for cutting tool for non-ferrous and non-metallic materials, dressers for wheel dressing, burnishing tools, wear parts, and wire drawing dies. For example: mobile shell, acrylic, precious metal jewelry, piston etc finish machining tool.

单晶尺寸规格single Crystal Synthetic Diamond Size

尺寸 \ 级别	C1	C2	C3	C4	C5	C6
2.0MM	★	★	★	★	★	★
2010-/2010/2012+						
2.5MM	★	★	★	★	★	★
2510-/2510/2512+						
3.0MM	★	★	★	★	★	★
3010-/3010/3012+						
3.5MM	★	★	★	★	★	★
3510-/3510/3512+						
4.0MM	★	★	★	★	★	★
4010-/4010/4012+						
4.5MM	★	★	★	★	★	★
4510-/4510/4512+						

注：C1-C6表示品级，“+”和“-”表示厚度大于和小于。Mark: C1-C6 show quality grades, "+"and "-"show thickness greater than and less than.



应用领域 Application Fields

- ▲ ①单晶刀具 Cutting Tools
- ▲ ②单晶刀具 Cutting Tools
- ▲ ③单晶刀具 Cutting Tools
- ▲ ④亚克力 Acrylic
- ▲ ⑤手机壳 Mobile Shell
- ▲ ⑥铜合金轴承 Copper Alloy Bearing
- ▲ ⑦单晶砂轮修整笔 Dressing Tools
- ▲ ⑧贵重金属首饰 Metal Jewelry
- ▲ ⑨眼镜片 Spectacle Glass
- ▲ ⑩单晶拉丝模 Wire Drawing Dies

