



昌润极锐超硬材料
GEMS SUPERABRASIVES

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Diamond eyes Discover new value



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GPCD是上海昌润极锐采用优质金刚石微粉为原料，通过高温高压技术生产出的金刚石复合片。我司生产的金刚石复合片具有硬度适中、耐磨性强、抗冲击性良好、热传导性能优异等特点。该复合片可广泛应用于机械加工、地质钻探、及石油钻井等领域。

Produced by quality micro diamond powder, and with the technology of high temperature and pressure, GPCD is kind of Polycrystalline Diamond from GEMS Superabrasives. The GPCD from GEMS is characterized by well suited hardness, excellent wear and impact resistance, and great thermal conductivity, etc. GPCD could be applied in the industry of mechanical process, geological drilling and oil drilling, etc.

GEMS



GPCD系列特点及应用 GPCD Characteristics and Application

GPCD系列特点及应用场合 GPCD Characteristics and Application

刀具用JX系列 JX Series for Cutting Tool

该复合片具有硬度适中、耐磨性好及抗冲击性优良等性能。用其制成的刀具，表面光洁度高、使用寿命长、加工效率高。可应用于各种有色金属及其合金材料、木材、陶瓷、强化塑料等加工领域。

Such kind of GPCD has well suited hardness, nice wear and impact resistance. Cutting tools made by such GPCD enjoys great surface finish, long service life and optimal cutting efficiency. It is widely applied in the fields of various non-ferrous metal, alloy, wood, ceramics and reinforced plastics, etc.



牌号及应用 Grade and Application

牌号 Grade	JX-02	JX-05	JX-10	JX-25	JX-2505
平均粒径 Average Size	2 μm	5 μm	10 μm	25 μm	25 μm、5 μm
加工对象 Processing Object	铝、铜、贵金属、复合木板、塑料、电子材料 aluminum, copper, precious metal, composite floor, plastics, electronics	铝、铜、贵金属、复合木板、塑料 aluminum, copper, precious metal, composite floor, plastics	硅含量小于14%的硅铝合金、铜合金、石墨以及石墨复合材料、复合木板、未烧结陶瓷和硬质合金 Si-Al alloy with the Si content of less than 14%, copper alloy, graphite, graphite composite material, composite floor, non-sintered ceramics and hardened alloy	硅含量大于14%的硅铝合金、金属基复合材料、复合金属、烧结陶瓷和硬质合金、其他高耐磨材料 Si-Al alloy with the Si content of more than 14%, composite material of metal matrix, composite metal, sintered ceramics, hardened alloy and other hard wear resistance material	WC合金硅含量大于14%的硅铝合金玻璃纤维、纤维板层叠地板 WC alloy glass fiber with the WC content of more than 14%, fiber sheet floor
性能特点 Performance	刀刃质量高、晶粒间结合能力强、高耐磨性、具有相当的抗冲击强度、工件表面光洁度极高 quality blade, strong bond capacity among grits, great wear resistance, nice impact resistance, excellent surface finish on the workpiece	刀刃质量高、晶粒间结合能力强、高耐磨性、具有相当的抗冲击强度、工件表面光洁度高 quality blade, strong bond capacity among grits, great wear resistance, nice impact resistance, good surface finish on the workpiece	刀具刀刃质量高、耐磨性优秀、具有相当的抗冲击强度、表面光洁度高 quality blade, great wear resistance, relatively good impact resistance, good surface finish on the workpiece	超长的工具寿命、耐磨性极高、抗冲击强度高、不错的表面光洁度 very long tool life, fantastic wear resistance, nice surface finish on the workpiece	极高的耐磨性、高抗冲击强度、良好的表面光洁度、工具寿命长 fantastic wear resistance, great impact resistance, nice finish on the workpiece surface, long tool life

标准规格表 Specification

形状 Shape	形状代号 Code	角度/A Angle/A	直径/D (mm) Diameter/D (mm)	总厚度/H (mm) Total Thickness/H (mm)	复合层/h (mm) PCD Layer/h (mm)
圆形 Circular	C	360	8/13/32/44/48	1.6/2.0/3.2	0.5

3 注：其它形状，如长方形、三角形、扇形可根据要求从圆形中切割而出。
Note: All the other shapes, like Rectangular (R), Triangle (T), and Fan (F) could be cut from the circular shape.

地质勘探用DK系列 DK Series for Geological Drilling

考虑到地质钻探的特殊要求，该GPCD采用先进的合成工艺，由高强的金刚石微粉和特殊硬质合金在高温高压下一次复合而成，因而此类GPCD具有较高的磨耗比和优异的抗冲击性。主要应用于地质勘探用钻头。

With regard to the special requirement on geological drilling, this kind of GPCD is produced by advanced synthesizing process, and with one compound of diamond micro powder of pretty good strength and special hardened alloy under high pressure and high temperature. Such kind of GPCD is endowed with relatively high grinding-wear ratio and great impact resistance. It is mainly applicable for geological drills.



标准型号规格 Standard Specification

产品规格 Specification	直径/D (mm) Diameter/D (mm)	总高度/H (mm) Total Height/H (mm)	复合层/h (mm) PCD Layer/h (mm)
DK-01	10.40	4.5	1.5
	12.40	4.5	1.5
	13.30	4.5	1.5
	15.00	8.0	1.6
	16.00	8.0	1.6
	19.00	8.0	1.7

GPCD系列特点及应用 GPCD Characteristics and Application

GPCD系列特点及应用场合 GPCD Characteristics and Application

石油钻头用SY系列 SY Series for Oil Drilling

采用新型触媒及高强金刚石微粉，并运用先进生产工艺制造而成的高品质复合片。该类GPCD硬度高、耐磨性好，同时也具有优越的锋利度、较好的抗冲击韧性和热稳定性。

Besides the advanced manufacturing process, new catalyst and diamond micro powder of great strength are used in the manufacturing of such kind of high quality polycrystalline diamond. It has high hardness, good wear resistance. Meanwhile, it enjoys fantastic sharpness, relatively good impact resistance and thermal stability.



标准型号规格
Standard Specification

产品规格 Specification	直径/D (mm) Diameter/D (mm) (±0.05mm)	总高度/H (mm) Total Hight/H (mm) (±0.1mm)	复合层高度/h (mm) PCD Layer/h (mm) (±0.2mm)	合金层倒角/a (mm) PCD Bevel/a (mm) (±0.1mm)	复合层倒角/b (mm) Alloy Bevel/b (mm) (±0.1mm)
SY-01	13.3/13.44	8.00	2.0	0.3	0.5
	13.44	13.20	2.0	0.3	0.5
	15.88/16.05	8.00	2.0	0.3	0.5
	15.88/16.05	13.20	2.0	0.3	0.5
	19.05	8.0	2.0	0.3	0.5
	19.05	13.20	2.0	0.3	0.5
	19.05	16.30	2.0	0.3	0.5



我们期待与您一起，共同开发更适合市场需求的新产品
We are looking forward to developing more new products for the market with you.