

# N.E.T<sup>®</sup>



◇机械珩磨系列  
MACHINE HONING SERIES

◇砂轮修整系列  
GRINDING WHEEL DRESSER SERIES

◇天然金刚石系列  
OTHER DIAMOND SERIES



诚信 求实 拼搏 创新  
HONEST AND REALISTIC DEDICATION AND INNOVATION

江苏耐尔特钻石有限公司  
JIANGSU N.E.T DIAMOND CO., LTD.

# 企业简介

江苏耐尔特钻石有限公司是以生产天然、人造金刚石系列工具为主的专业生产企业。主要产品有天然金刚石砂轮刀、金属笔、四角刀、修整器、珩磨杆油石等。公司位于“江中明珠”水上花园城市——扬中市。企业历经多年的改革和发展,培养出了一批具有专业技术水平的人才,建立了先进的产品质量管理体系,并与国内外多家大型工具研究机构建立了长期稳定的技术合作关系,公司产品已通过国际ISO9001:2008 质量标准体系认证。并出口至美国、日本、印度、台湾、香港等国家和地区,受到国内外多家企业认同为替代之进口产品。

本公司N.E.T.牌金刚石系列工具,选用进口优质金刚石原料,生产工艺先进,设备精良,产品质量可靠,是精密机械加工行业首选的理想工具,同时本厂还以雄厚的技术优势为用户设计生产多种规格型号的异型金刚石工具,满足用户的特殊要求。

本公司视以质量为生命的企业理念和“质量第一、用户第一、信誉至上、服务第一”的经营宗旨,愿N.E.T.品牌永远成为您的朋友,欢迎来我公司惠顾或电询。

**耐尔特**

**珩行世界**

N.E.T. HENG-LINE WORLD

**诚信铸造伟业**

ALBERT CASTING INTEGRITY





# ENTERPRISE CULTURE

Jiangsu N.E.T Diamond Co., Ltd. is a specialized manufacture enterprise for the natural diamond serial tools and man-made diamond serial tools. The products contain natural diamond cutter/ metal pen /repair tools/four-corner knives/diamond honing pole/oil stone etc .The company is located in the Yang zhong city which has been reputed as "a pearl amid the river", an over-water garden city. Through years' reform and development, it has fostered a group of talents with professional technological levels. It establishes the advanced production quality control system. It sets up the long-term stable technical cooperation relationships with serveral large-scale tool partners and research institutes both at home and abroad. The goods pass the international ISO9001:2000 quality standard system attestation. They have been exported to the countries and regions such as America, Japan, India, Taiwan, Hongkong etc. They prove to be the replaceable products for the imported goods from the large-size enterprises such as the domestic foreign invested corporations or the joint ventures.

The company's N.E.T brand diamond serial instruments are made of the imported superior quality diamond materials. With the advanced process, consummate equipments and reliable product quality, It is a first-choice ideal tools of the precision mechanical processing . Meanwhile with our abundant technological advantages ,we may design and produce the specially shaped diamond tools with multiple specifications and models for the consumers in order to meet the clients' special needs.

This company abides by the enterprise idea of "regard fine quality as the life " and the managing objective of "Reputation First ,Service Best". We wish N.E.T brand becomes your eternal friend. Welcome to visit and make enquiries to our company by telephone.





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# 营业执照

(副本)

统一社会信用代码 91321182731150010G (1/1)

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类型 有限责任公司  
住所 扬中市中兴路99号  
法定代表人 方国祥  
注册资本 2000万元整  
成立日期 2001年09月07日  
营业期限 2001年09月07日至\*\*\*\*\*  
经营范围 金刚石制品、铂合金制品、紧固件、金属结构件、低压开关柜、母线、磨料磨具、橡塑制品、制造、销售。  
(依法须经批准的项目,经相关部门批准后方可开展经营活动)



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2016 年 11 月 28 日

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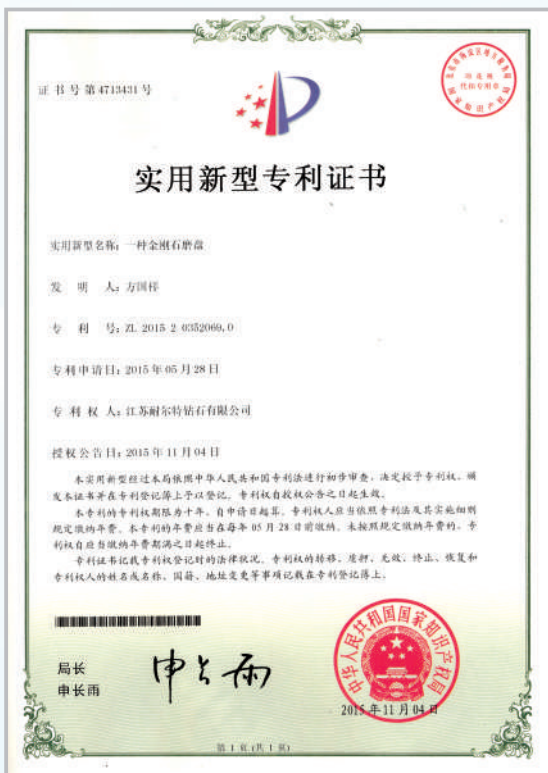
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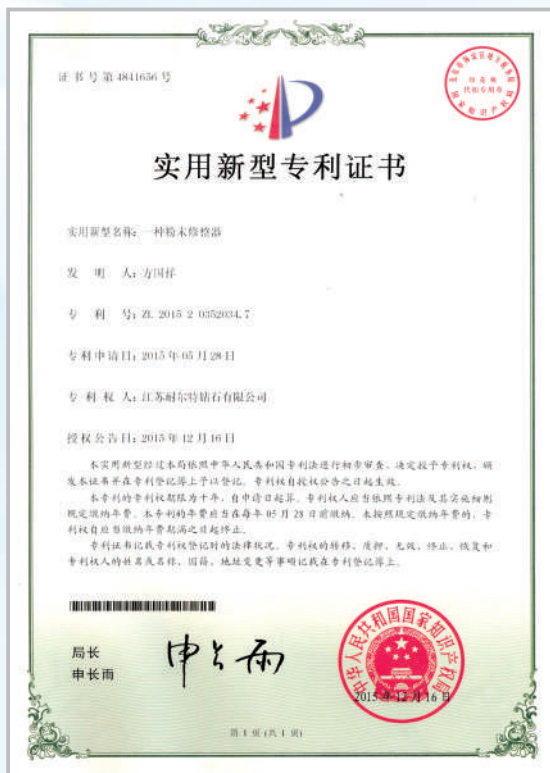
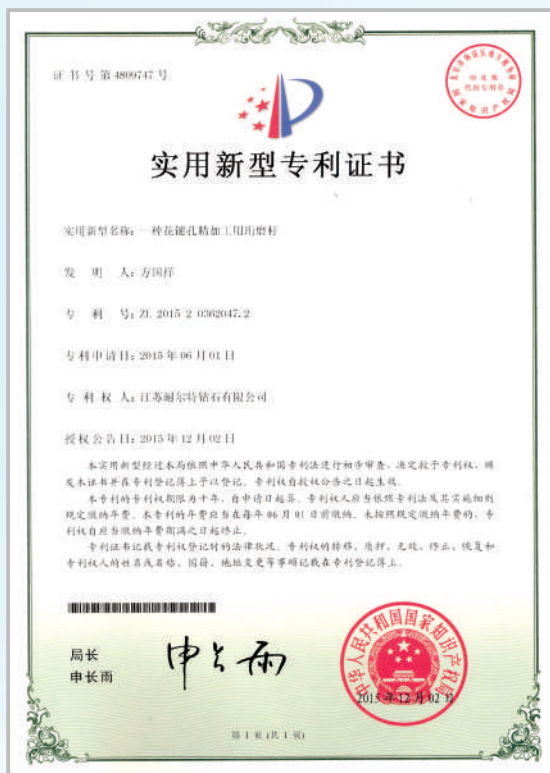




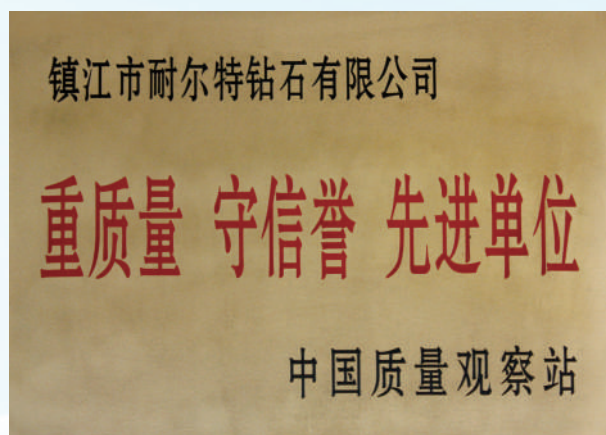
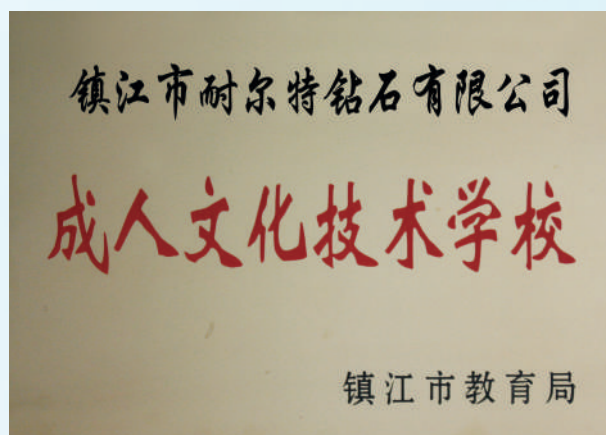












# 机械珩磨系列

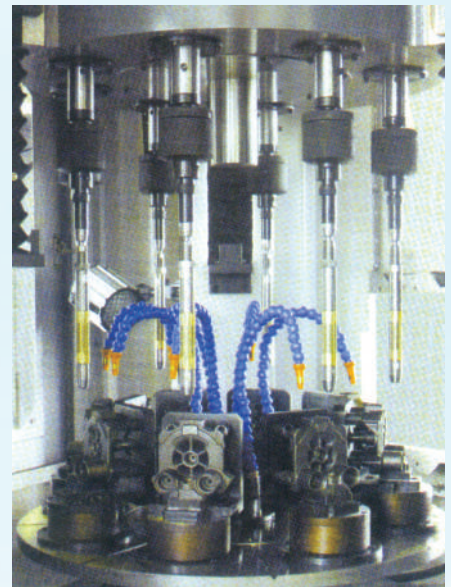
## MACHINE HONING SERIES





## ◇概述 INTRODUCTION

珩磨加工是磨削加工中的特殊形式,是精加各类复杂零件孔的一种高效的高精度的加工方法,这种工艺不仅能去除较大的加工余量,而且是一种能提高零件尺寸精度,几何形状精度和表面粗糙度的最有效的加工法。在50年代初珩磨仍是作为研磨和抛光使用,那个时期的珩磨设备也比较简单,大都是手工操作,机械自动化的程度很低,生产效率也很低。随着社会的发展和科技的进步,珩磨工艺技术也有了很大的改进和提高。首先珩磨设备越来越先进,有进口设备有国产设备,可根据需要任意选择,从卧式珩磨到立式珩磨。从单轴磨头到多轴磨头。从固定工作台到旋转工作台。从手动控制到电脑编程的全自动控制,大大满足了大批量、高效生产的需求,与珩磨设备配套的珩磨杆从结构形式分类品种也很多,卧式珩磨机配套的有单条杆,多条杆,套体杆。立式珩磨机配套的有气动测量扩张式,定量扩张式,定压扩张式、套体固定可调式,套体浮动可调式等,广泛适用于往复珩磨和绞珩磨等多种珩磨模式的需要。珩磨的磨料也有很大的改进和提高,现今的金刚石和立方氮化硼超硬磨料的配方,基本取代了原来使用的刚玉和碳化硅磨料,有效地提高了珩磨精度和使用寿命,并且也大大拓宽了珩磨加工在其他非金属材料,有色金属和超硬材料领域的广泛应用使珩磨技术不断改进,不断创新,让我们携手共创,珩磨新工艺技术的光辉明天。



Honing process is a special form of grinding , is a highly efficient method of machining various types of complex parts' holes. This process is not only changing the larger allowance, but also the most effective processing method of improving the accuracy of part size, geometry accuracy and surface roughness. In 1950s, as a method of honing and polishing, honing machines are very simple, people almost hones by their hands, machine automation and production efficiency is very low. With the development of the society and the progress of technology, honing process changes a lot. First , honing machine is more advanced , From import equipment to China-made equipment, you can choose any kind of them. from Horizontal Honing to Vertical Honing, from single spindle grinding-tip to double spindles grinding-tip. from fixed table to the rotary table. from manual control to automatic control of computer programming, it meets the needs of a large number of efficient production. Honing rods matched honing machines are a variety of Structure forms. there are a single rod, multiple rods, sets of rods about horizontal honing and there are pneumatic measurement expandable, quantitative expansion of the style, constant pressure expansion type, sets fixed adjustable body, sets the body floating adjustable about vertical honing. They are widely used in a variety of honing needs about reciprocating honing and other honing. Honing abrasive has greatly improved and increased. Today's super abrasive materials, diamond and cubic boron nitride, have basically replaced the original use of corundum and silicon carbide abrasive, They can effectively improved the honing precision and life, but also greatly broaden the fields of widely using honing technology in other non- metallic materials, nonferrous metals and super- hard materials . Today honing technology continues to improve, innovate, let us work together, and make honing process a brilliant new technology tomorrow.



### (一) 珩磨油石(珩磨条、珩磨刀套)

#### Honing oil stone(Honing Strip\Honing cutter case)

##### 1、珩磨工艺的加工原理和特点 Honing Process Principles And Characteristics Of The Processing

珩磨就是利用安装在珩磨杆圆周上的单条或多条珩磨油石或珩磨刀套,由涨开机构,将油石或套沿径向,向外涨开,使它压向工件孔壁,以便产生一定的面接触,同时使珩磨杆旋转和上下往复运动,零件不动,或珩磨杆只作旋转运动,零件上下往复运动,从而实现珩磨,使零件达到要求尺寸和精度,因为珩磨时珩磨油石以矩形面与孔壁接触,通过珩磨杆的旋转、往复,扩张运动的进行,使加工后的零件孔表面形成了独特的交叉痕(珩磨网纹)。

通过珩磨加工后的产品精度很高,特别是中小型通孔珩磨,其圆柱度可达0.001mm以内,一些壁厚不均匀的零件,如连杆,其圆度也能达到0.002mm,对于大孔(孔径在200mm以内)圆度也可达0.0005mm。珩磨后的零件其表面质量也有很大提高,交叉网纹有利于润滑油的存储及油膜的保持,因而能承受较大的载荷、耐磨损,从而提高了零件的使用寿命,因珩磨时速较低,油石与孔是面接触,因此平均磨削压力小,这样零件的发热量很小,表面几乎没有热损伤和变质层。珩磨可以加工各种形状的孔。如通孔、盲孔、串型孔、断孔、叠孔、带键槽孔、横孔带槽孔、花键孔等。广泛应用于冰箱空调压缩机、液压阀体、油泵油嘴,连杆、齿轮、汽车、摩托车、缝纫机等行业。

Honing is opened up by the agency with a single or more honing stone or honing strip on the honing rod circumference .Oil stone, or honing strip will be outwarded up to open, it is pressed to make the work piece hole wall to produce a certain face contact while honing rod rotation and reciprocating motion, part not move, or just honing rod for rotation, parts up and down reciprocating motion, in order to achieve honing, so that parts meet the required size and precision, because when the honing stone with rectangular honing surface and the hole wall contact, the rotation through the honing rod, back and forth, expanding movement to allow the processed parts hole formed on the surface a unique cross-marks (honing reticulate).

By honing process products have high precision, especially small and medium honing hole, the cylinder of up to 0.001mm or less, some of the uneven thickness of the parts, such as connecting rods, its roundness can reach 0.002mm, for large hole (diameter of 200mm or less) are also up roundness 0.005mm. After honing the surface quality of parts is also greatly improved, and is conducive to cross-textured film lubricant storage and retention, which can withstand greater loads, wear, thereby increasing the service life of parts due to the lower speed honing , Whetstone is a surface contact with the hole, so the average grinding pressure is small, so small parts of the heat, almost no thermal damage and surface deterioration layer. Honing holes of various shapes can be processed. Such as through holes, blind holes, string-shaped hole, off the hole, overlapping holes, with a key slot, horizontal holes with a slot, spline hole and so on. Widely used in refrigerator air compressor, hydraulic valve, pump nozzle, connecting rod, gear, cars, motorcycles, sewing machines and other industries.



## 2、超硬磨料珩磨油石(金刚石、CBN珩磨条) Super Hardness Honing Oil Stone(Diamond \CBN)

超硬磨料油石是采用进口的标准优质金刚石微粉与金属结合剂,按一定比例的配方和浓度,充分混合搅拌均匀后,装石墨模具在真空热压机中烧结而成,整个流程工艺先进,不会形成金刚石碳化,保证了磨条的烧结质量,把烧结好的磨条单片通过用银焊或粘结的方法固定在珩磨杆配套的油石座基体上,最后用专门夹具把珩磨油石整体归圆修整,保证油石与被加工面接触良好。



Whetstone is the use of super-hard abrasive quality standards for imports and metal bond diamond powder, a certain proportion of the formulation and concentration, even after full mixing, loading graphite mold in vacuum hot press sintering, the entire process, advanced technology, not will form a diamond carbide, to ensure the grinding of the sinter quality, a good grinding of the sintered piece by welding or bonding with the silver method of honing rod fixed to the seat base supporting the Whetstone, the last with a special fixture to the overall return honing stone round trim, Whetstone and being processed to ensure good surface contact.



### 超硬磨料的珩磨油石适应珩磨的材料:

Superhard Abrasive Honing Stone Honing The Material To Adapt:

- ◇ 金刚石油石: 铸铁, 硅铝合金, 巴氏合金, 青铜, 黄铜合金, 铜, 玻璃, 陶瓷等。
- ◇ CBN 油石: 工具钢, 模具钢, 淬火钢, 高温合金钢, 高铬铸铁等各种钢及超硬耐热钢。
- ◇ Diamond Whetstone: cast iron, silicon and aluminum, babbitt, bronze, brass alloys, copper, glass, ceramics and so on.
- ◇ CBN Whetstone: tool steel, tool steel, hardened steel, high alloy steel, high chromium cast iron and other heat-resistant steel and super-hard steel.



### 3、超硬磨料珩磨刀套(金刚石, CBN) Super hardness honing cutter case (diamond /CBN)

超硬磨料珩磨刀套是以圆筒状整体的形式。代替了单条或多条型式, 选用磨料标准与珩磨油石一样是把超硬磨料按一定比例、浓度配方的结合剂混合粉料整体烧结在套基体的圆周表面, 然后经各道工序和专业设备精加工而成, 圆周外表加工成螺旋槽排屑方式, 它虽然制造工艺比较复杂, 但珩磨质量稳定, 精度很高, 操作方便, 特别适合各类特殊孔型和各种珩磨设备以绞珩模式的珩磨加工。

它适应珩磨材料与超硬珩磨油石相同



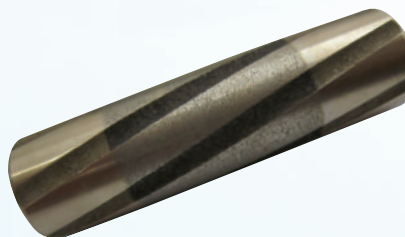
Superabrasive honing the whole pocket is a cylindrical form. Instead of single or multiple patterns, use abrasive honing stone, as is standard with super-hard abrasive according to a certain percentage of the concentration of binder mixed formula powder sintering in the overall circumferential surface of the substrate set, and then by the fine procedure and professional equipment processed, the spiral groove into the circumference Waibiaojiagong Paixie way, although it is the manufacturing process more complicated, but honing stable quality, high precision, easy operation, especially for various types of special pass and Ge Zhong Heng Moshi honing equipment to twist the Honing.

It is suitable for the honing materials as well as honing oil stones.

### 4、整体螺旋式削珩磨套 Honing the whole set of spiral cut

整体螺旋式削珩磨套, 具有排屑快, 切削负载小, 使用寿命长等特点, 特别是对零件孔壁有油孔和油槽时, 产品精度要求能得到保证。

Honing the whole set of spiral cut, with fast chip removal, cutting load is small, long service life, especially for parts with hole and the hole wall tank, the product precision can be guaranteed.



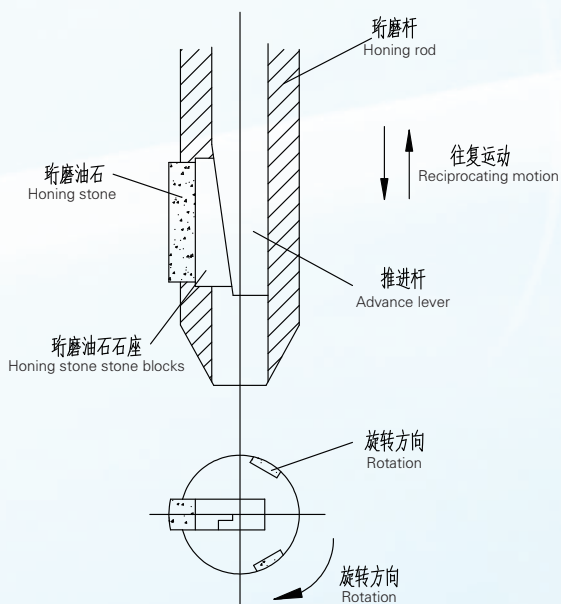
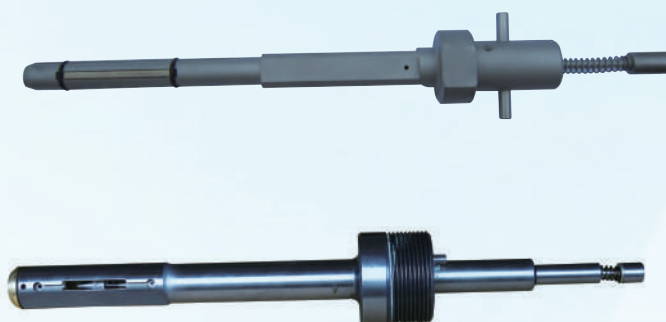


## (二) 珩磨杆 Honing Rod

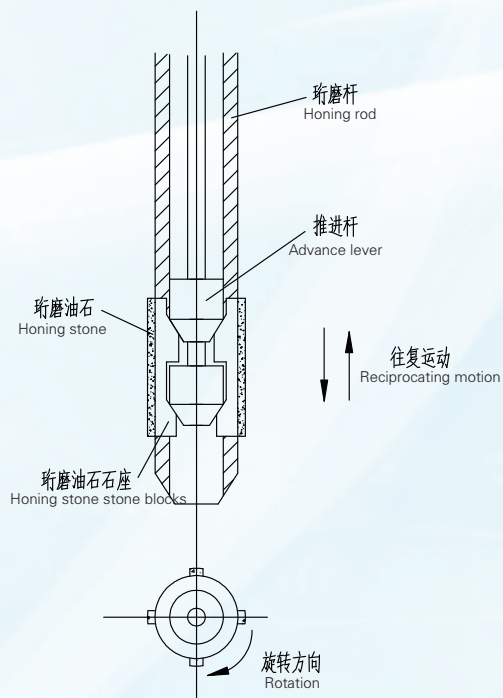
### 1、压力扩张式珩磨杆 Pressure Expandable Honing Rod

它是以压力扩张的形式推动珩磨油石座基体向内外涨缩的珩磨工具，它强度高，制造精良配合精密灵活，是卧式、立式扩张珩磨的理想珩磨工具，适用于往复珩磨模式。

It is a honing tool promoted the honing oil stone base to expand and contract inside and outside by the form of Pressure expansion. It has high strength, excellent precise, flexible manufacturing, it is the ideal tools of horizontal, vertical expansion honing and it is suitable for reciprocating honing mode.



卧式单条 Horizontal single



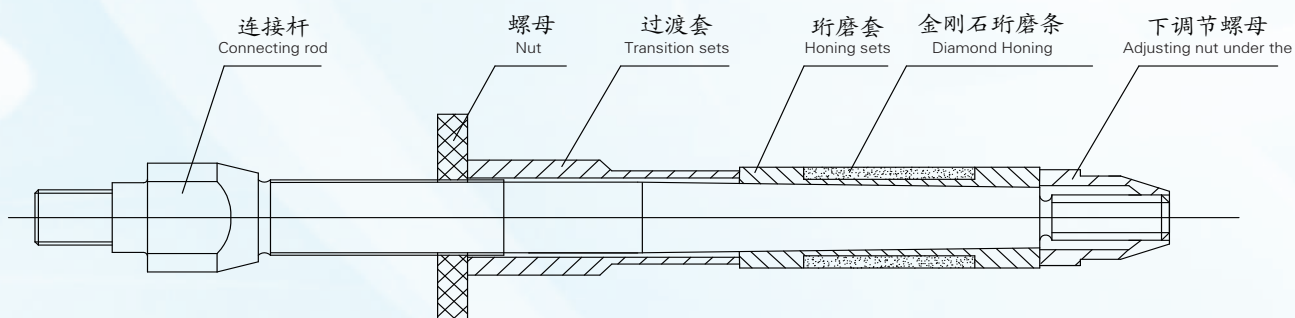
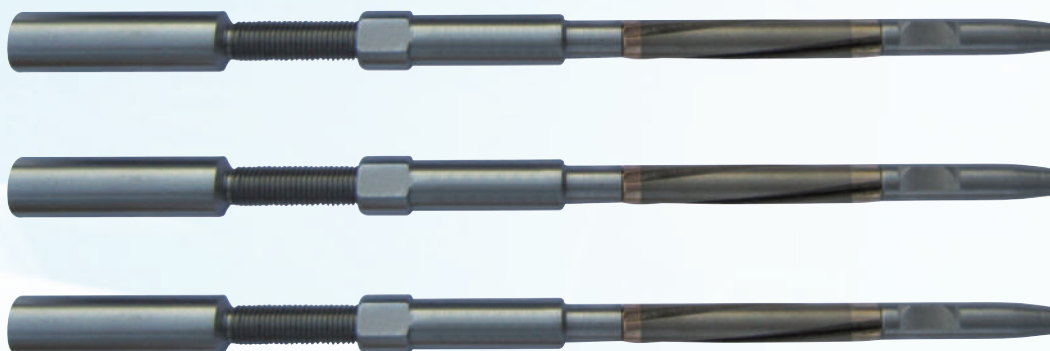
立式多条 Multiple vertical



## 2、可调节套体式珩磨杆 Adjustable Set-bodied Honing Rod

它是以调节珩磨刀套在 1:50 锥度芯轴上移动的位置来推动珩磨刀套使其涨缩的珩磨工具,它强度高制造精良,配合精密灵活,它可以在珩磨杆上直接调节所需尺寸(珩磨定量)。所以操作简单方便,只需珩磨杆能旋转就可以珩磨,最适用于各类珩磨机的纹珩模式。

It can move the position of honing cutter sheath in 1:50 taper mandrel to promote honing cutter sheath to expand or shrink, It has high strength, excellent precise, flexible manufacturing, may adjust the size you need in the honing rod(Quantitative). So it has simple operation, you can just use honing rod to rotate. It can be suitable for honing mode of various types of honing machine.

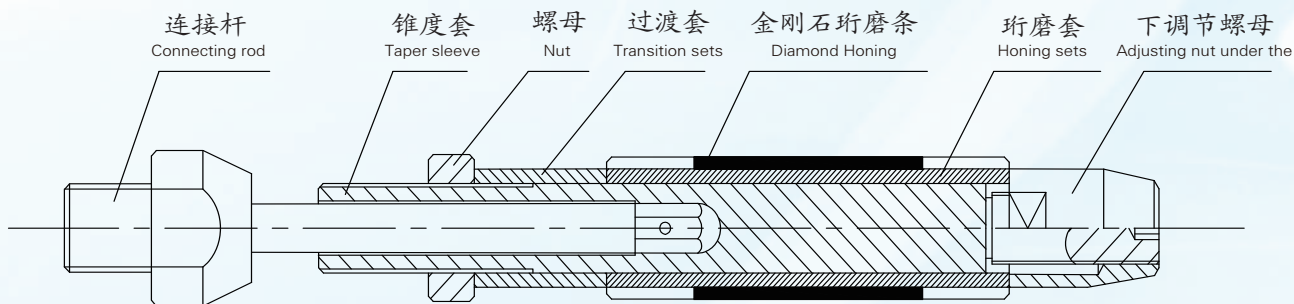
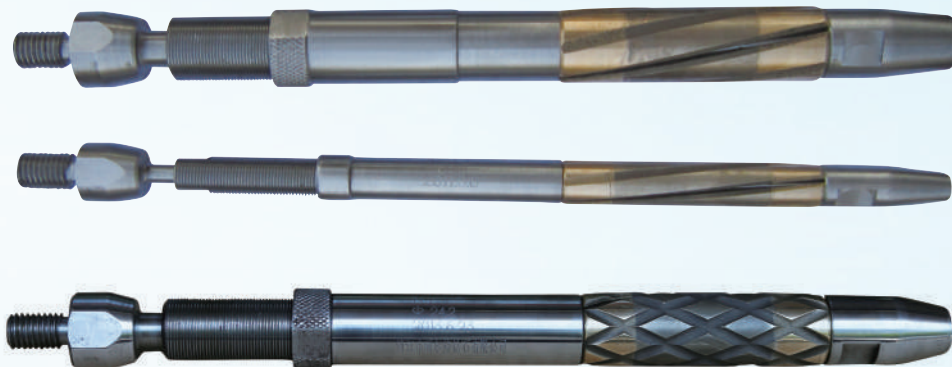




### 3、可调节浮动式珩磨杆 Adjustable Floating Honing Rod

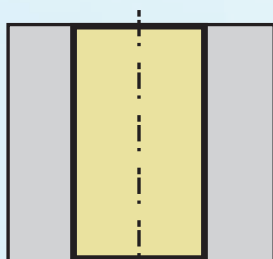
浮动式的珩磨杆它的调节刀套和涨缩原理与套体式相同,只是在1:50锥度芯轴里面又增加了一套浮动装置,使珩磨刀套在珩磨过程中垂直方向有一定的角度浮动,更有效地修整因设备和夹具浮动量不足而产生的误差,也更好地提高了珩磨精度,(该珩磨杆不适用卧式珩磨)。

Adjustable floating honing rod, its Principle of adjusting cutter sheath and expanding or shrinking is the same as set-bodied honing rod. It can only add a set of floating tools in 1:50 taper mandrel, that makes cutter sheath a certain vertical angle float in honing process, and repair data error more efficient caused by equipment and fixtures floating, but also to improve honing precision well.(it is not suitable for horizontal honing)

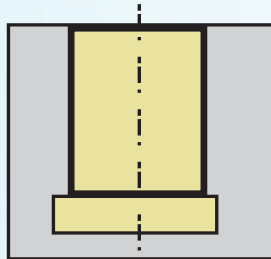




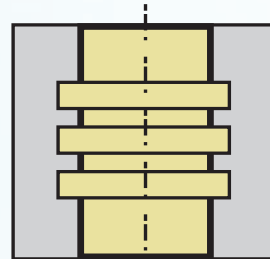
## 加工孔形状 SHAPE OF THE HOLE PROCESSING



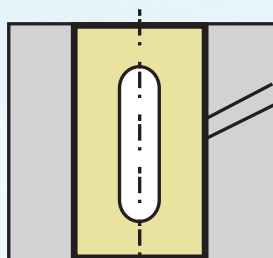
通孔  
Hole



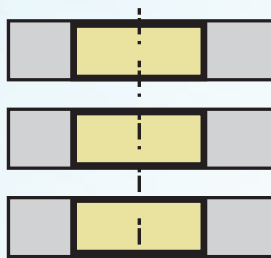
盲孔  
Blind hole



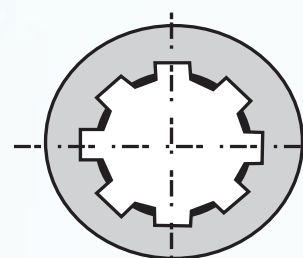
串型孔  
String-hole



横孔、带槽孔  
Horizontal hole with slot



叠孔加工  
Stack Hole



花键孔  
Spline hole

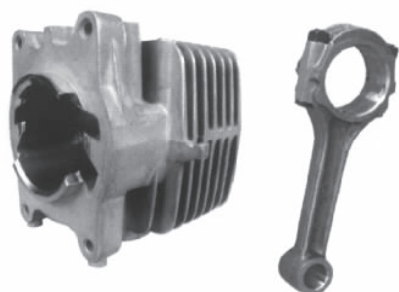
## 五大产品优势 FIVE ADVANTAGES



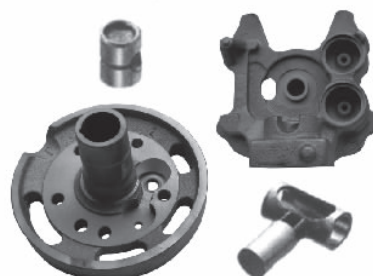


## 活跃领域 ACTIVE IN THE FIELD

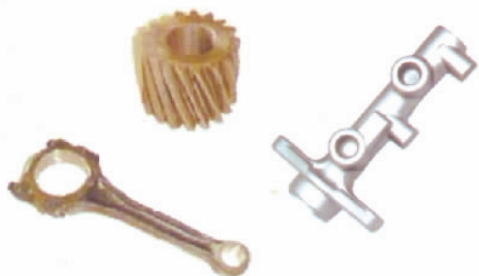
气缸连杆  
Cylinder rod



压缩机零件  
Compressor Parts



汽车、摩托车零件  
Automotive, Motorcycle Parts



高压泵零件  
High-pressure pump parts



各种齿轮  
Various gear



陶瓷零件  
Ceramic parts



发动机气缸  
Engine cylinder



液压阀  
Hydraulic valve





## 各种类型的珩磨机 ALL TYPES OF HONING MACHINE





### （三）超硬磨料端面研磨头、研磨环(机架孔、阀板孔端面研磨)

#### Super hard end face honing tips and honing rings(Rack hole, Valve board hole end surface honing)

超硬磨料端面研磨头,研磨环选用进口优质磨料,采用先进配方,具有制造精度高,耐磨性好,切削效率高等优点,广泛应用于冰箱、空调压缩机孔端面伐板孔端面的研磨。并可以根据用户不同设备的连接方式和精度要求加工订货。

super hard end face honing tips and honing rings are made of importer grinding materials by advanced formula. They have the feature of high precision manufacture, good abrasion resistance, high efficiency cutting process, they are widely used in the grinding of plate hole about refrigerators, air-conditioning compressor hole cutting end faces. And it can order according to users' different connect mode and precision processing.

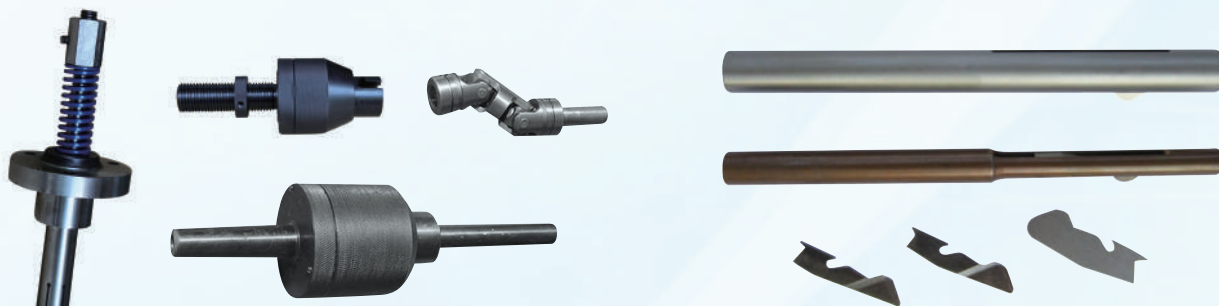


### （四）其他配套产品(珩磨连接杆、浮动连接头、活塞销孔去毛刺倒角刀等)

#### Other products(honing rod\floating connect\ Chamfer tool)

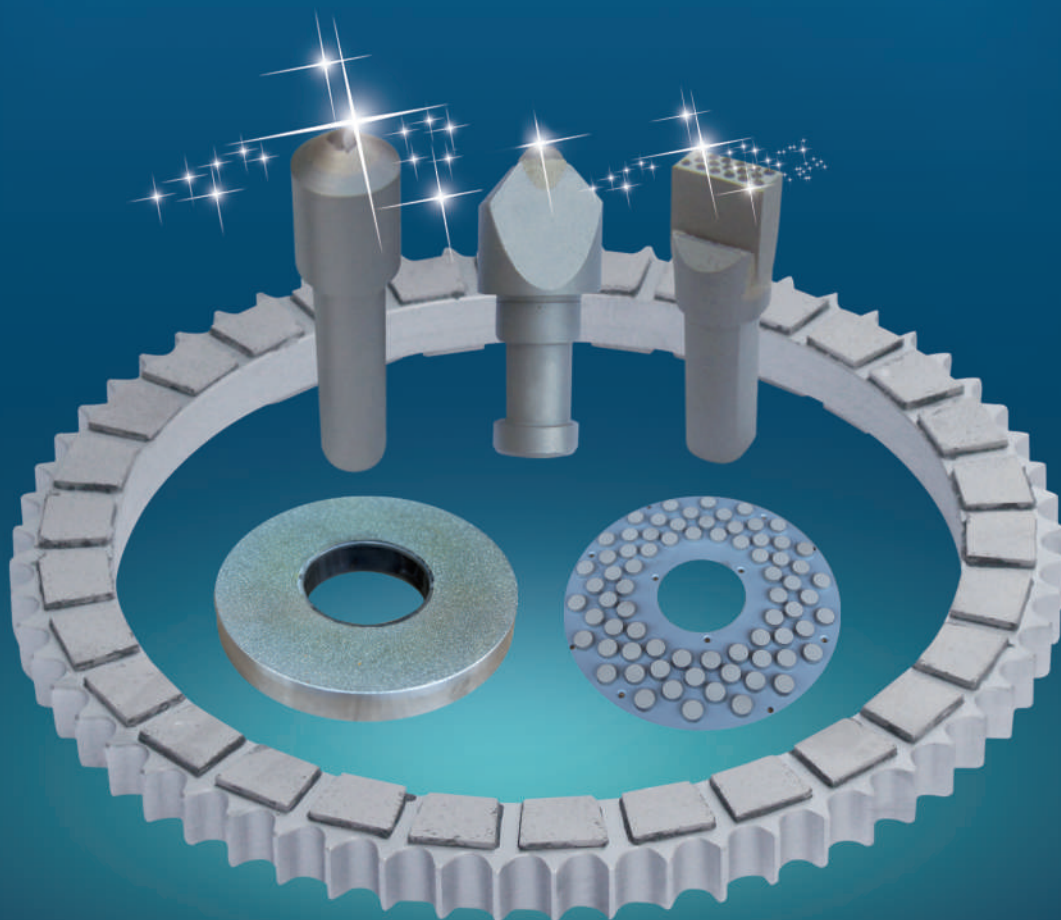
公司根据用户需要,可以代为加工珩磨机与珩磨杆之间的连接杆,和大小各种规格及与设备连接方式的浮动连接头,制造精良,浮动灵活,质量可靠,活塞销孔的倒角刀具,完全符合进口刀具的要求。

Our company can manufacture connect rods about honing machining and honing rods, all kinds of special floating-connection connected with the equipments,We have sophisticated manufacture process , flexible floating .reliable quality, cutter tools of piston pin holes are full compliance with the requirements of the import tools



# 砂轮修整系列

## GRINDING WHEEL DRESSER SERIES





## ◇概述 Introduction

天然金刚石是在地球内部的高温、高压下形成的,随着火山的喷发而被推向地球表面,它是与一种特别的岩石(金柏利岩)在火山喷发时共生在一起。世界上最有名的钻石矿就是在南非大约一亿年历史的火山型营状矿脉“金伯利”钻石矿。1890年戴比利斯取得了该矿的开发权,据说平均每1吨矿石只能提取到0.6克拉钻石,可见它的稀少和珍贵。

现代科技表明金刚石是碳的结晶体之一,属于异轴晶系矿物,是世界上目前已知的自然界中最硬的物质,号称世界硬度之王,相当于硬质合金显微硬度的6-7倍,它的熔点为3700度,但在空气中燃烧850-1000度以上会发生碳化,而降低硬度,原先人们只把它作为华贵的装饰品和工艺品,随着社会的进步,科技的发展,现在已经被工业制造领域广泛应用。

Natural diamond is formed under high temperature and high pressure in the earth. As the volcano erupts, it is pulled to the surface of the earth, and it is symbiotic with a special kind of rock (JinBaiLi rock) in volcanic eruption. The world's most famous diamond mine is in South Africa, it calls "kimberley diamond mines", it has one hundred million years history of volcanic veins. In 1890, Wear Billy achieved the rights to exploit the mine, it is said that on average only 0.6 carat diamond can be extracted from each ton's ore, this shows its rare and precious.

Modern technology shows that the diamond is a kind of crystals of carbon, it belongs to one of the carbon off-axis crystal mineral department, and it is the hardest material in the world as already know, it is called the king of the world hardness, equivalent to 6-7 times hard of alloy microhardness. Its melting point is 3700 degrees, but carbonization will happen and reduces hardness when burning 850-1000 degrees in the air. It was regarded only as a previously luxurious decorations and arts originally, but with the progress of the society and the development of science and technology, now it has been widely used in industrial production.





## 工业用天然金刚石配料等级标准

### Industrial use of natural ingredients diamond grading standards



级别 Level	晶体特征 Crystal characteristics	规格 Specification	用途分类 Use classification
一级品 First Grade	晶体为完整八面体,十二面体或过度型晶体,透明、半透明,颜色不限,顶角处不得有裂纹和包裹体,内部允许有不大于0.5mm的包裹体,似是而非不得有裂纹 Octahedral crystals to complete, dodecahedron or excessive crystal, transparent, translucent, color limited to, angle at the crack and inclusions may not have, not more than 0.5mm are allowed inside the inclusions, paradoxically not have cracks	每粒0.3-3克拉 0.3-3 carats each piece	1、砂轮刀 Grinding wheel cutter 2、成型刀 Molding knife 3、四角刀 Corner knife 4、车刀 Lathe tool 5、压头、支撑器 Pressure head, stent
二级品 Second Grade	晶体有五个以上天然有用顶角的八面体十二面体或过度型晶体,透明、半透明、颜色不限,有用顶角处不允许有裂纹,其他部位允许有少量的包裹体和微小的裂纹 Crystal useful for more than five natural angle of the octahedron dodecahedron or excessive crystal, transparent, translucent, color limitation, useful angle at the crack does not allow other parts to allow a small amount of inclusions and tiny cracks	每粒0.3-3克拉 0.3-3 carats each piece	1、砂轮刀 Grinding wheel cutter 2、成型刀 Molding knife 3、四角刀 Corner knife 4、车刀 Lathe tool 5、压头、支撑器 Pressure head, stent
三级品 Three Goods	晶体形状不限,具有三个以上天然有用顶角,透明、半透明、颜色不限,有用顶角处不允许有裂纹,其他部位允许有包裹体和微小裂纹 Limited crystal shape, with three or more natural angle be useful, transparent, translucent, color limitation, useful angle at the crack are not allowed in other parts of the inclusions and allowed small cracks	每粒0.3-3克拉 0.3-3 carats each piece	1、砂轮刀 Grinding wheel cutter 2、成型刀 Molding knife 3、四角刀 Corner knife 4、车刀 Lathe tool 5、压头、支撑器 Pressure head, stent
等外品 Substandard products	非片状晶体,具有一个以上的顶角,颜色不限,透明、半透明,有用顶角处不得有裂纹,允许有微小包裹体 Non-flaky crystals, with more than one entry angle, color, limited, transparent, translucent, useful not there at the crack angle, allowing a tiny inclusions	1-15粒/克拉 1-15 tablets / carat	1、金属笔 Metal Pen 2、多点修整器 Multi-dresser 3、测爪 Measured claw
细颗粒统计 Fine-grained statistics	非片状晶体,透明、半透明 Non-flaky crystal, transparent, translucent	20-70粒/克拉 20-70 tablets / carat	粉末修整器 Powder Dresser



## (一)、单晶天然金刚石修整工具 Single Crystal Natural Diamond Dresser

### 1、天然金刚石砂轮刀

Natural Diamond Grinding Wheel Cutter

天然金刚石砂轮刀,选料讲究,规格级别齐全,广泛用于各种大型磨床设备的砂轮修整和各种精度要求较高砂轮的精密修复,其特点是硬度高,韧性强,耐磨强,尖部磨损后可以多次翻修,并重复使用,延长提高使用寿命。



Natural diamond grinding wheel cutters ,the strict choose of materials, complete specifications , are widely used in grinding wheel dressing of various large-scale grinding equipment and precision repairs of high precision grinding wheel, which is characterized by high hardness, strong toughness, better Abrasion resistant, tip wear can be renovated and reused more than times to extend service life after being abraded.

### 2、天然金刚石四角刀 Natural Diamond Four Angle Cutter

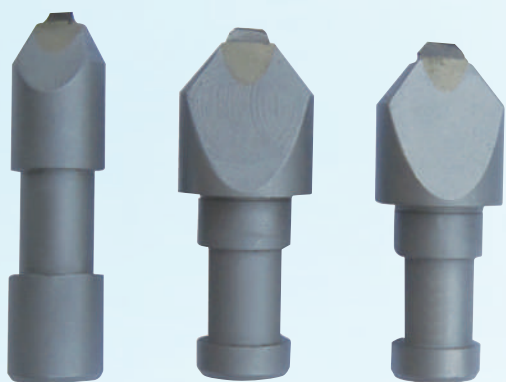
选用优质天然金刚石原料,先进的工艺配方和加工设备,用精良的检测仪器和完善的检测手段,确保四角面的同心度在0.03mm范围内,该产品完全符合轴承行业,中外合资等大型企业先进设备,配套使用的要求,并出口美国、日本、印度、台湾、香港等国家和地区。

It' s made of good natural diamond materials, uses advanced process and mechanical equipments. With sophisticated detection equipment and perfect testing means to ensure the concentricity of the four corners is in the range of 0.03mm, This products meet the necessary use's request of the bearing profession, Major industries in the Chinese- foreign company and so on .The products can export to the countries and areas .such as the USA, Japan, India, Taiwan, Hong Kong.





### 3、天然金刚石成型刀 Natural Diamond Forming Cutter



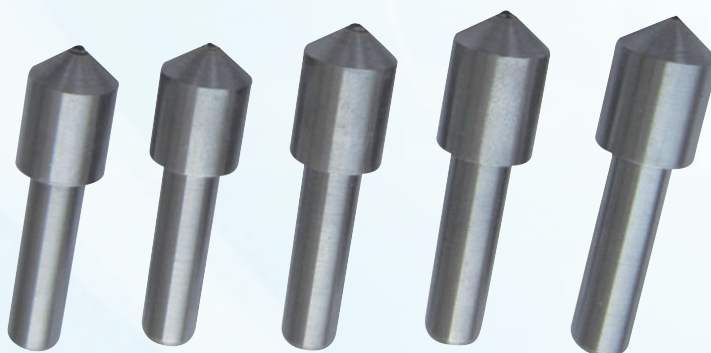
该产品选用优质和成型结构合理的天然金刚石原料,通过专用设备进行粗磨成形,然后在特殊夹具上用手工操作,精细研磨而成,它适合各种砂轮所需角度,内外弧度的成形修整。

This products are made of rational-structure natural diamond material. They are formed by special equipment for coarse grinding and then made in a special fixture by hand, They are necessary for a variety of grinding wheel angle to form dressing inside and outside Radians .

### 4、天然金刚石金属笔 Natural Diamond Pen

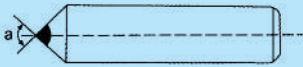
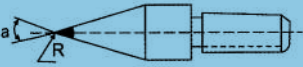



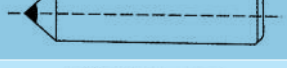
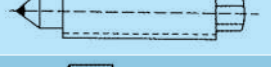
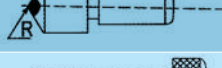

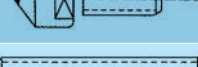
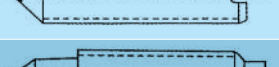



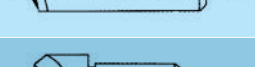
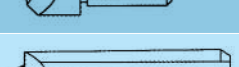
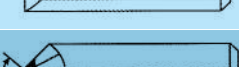
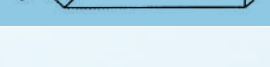
该产品的金刚石选料标准比砂轮刀较次之,一般选用等外级的原料而成,但在使用过程中工人操作合理,也能获得良好的效果,它具有成本低,效率高,不需要翻修,可以连续使用等特点。

The diamond material standards of this products is lower than standands of grinding wheel cutter. They're usually made of raw materials in substandard level, but workers must keep the courses of operation reasonable, it can get good results. It has low cost, high efficiency, no renovation, can be used continuously and so on.



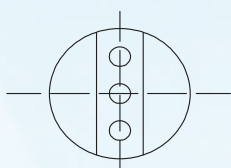
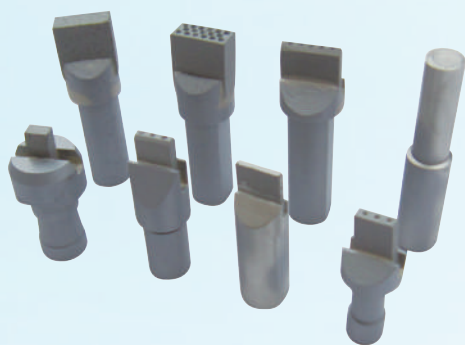


## 各种非标图形

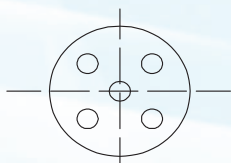
形状 Shape	规格 Specification	精度 Accuracy	用途 Use
	$a=30^{\circ}\sim 120^{\circ}$	笔尖对外径同心度 $\leq 0.01$ Tip of the outer diameter concentricity $\leq 0.01$	用于薄轨磨床、平磨外磨、刃具磨床 Rail grinding machine for thin, flat ground outside the grinding, cutting grinder
	$a=30^{\circ}\sim 120^{\circ}$	$R=0.2\pm 0.5$	用于意大利4M万能工具磨床、高速齿轮磨床 4M universal tool grinder for Italian high-speed gear grinder
	按用户要求做 Done according to user requirements	笔尖对准柄同心度 $\leq 0.01$ Align the handle tip concentricity $\leq 0.01$	用于东德125等磨床 125 other grinding machines for East Germany
	按用户要求做 Done according to user requirements		用于意大利4M万能工具磨床控砂轮修整器 For control of Italy 4M Universal Tool Grinder Dresser
	按用户要求做 Done according to user requirements		用于各种型号的螺纹磨床 For various types of thread grinding machines
	按用户要求做 $a=55^{\circ}\sim 60^{\circ}$ Requested by the user to do $a=55^{\circ}\sim 60^{\circ}$		用于7332磨齿机 Grinding machine for 7332
	按用户要求做 Done according to user requirements	金刚石尖对螺纹柄部同轴度 $\leq 0.025$ Diamond tip of the screw shank concentricity $\leq 0.025$	用于各种型号高速齿轮和7150磨床 For various types of high-speed grinding gears and 7150
	按用户要求做 Done according to user requirements	$R0.51\pm 0.025$	用于弧齿磨床 For the arc tooth grinding
	按用户要求做 Done according to user requirements	笔尖对螺纹柄同心度 $\leq 0.025$ Tip of the screw shank concentricity $\leq 0.025$	用于各种型号滚刀磨床 For various types of hob grinder
	按用户要求做 Done according to user requirements	笔尖对螺纹柄同心度 $\leq 0.025$ Tip of the screw shank concentricity $\leq 0.025$	
	按用户要求做 Done according to user requirements	笔尖对螺纹柄同心度 $\leq 0.025$ Tip of the screw shank concentricity $\leq 0.025$	
	按用户要求做 Done according to user requirements	笔尖对螺纹柄同心度 $\leq 0.025$ Tip of the screw shank concentricity $\leq 0.025$	
	A型 type, B型 type $H=0.1\sim 0.2$ $H=0.2\sim 0.4$		用于瑞士NZA AZA Ab等型号蜗样砂轮磨齿机 Switzerland NZA AZA Ab for snail-like wheel gear and other models
	C型 type, D型 type $R=10$ $R=70$		用于瑞士NZA AZA Zb等型号蜗样砂轮齿机 Switzerland NZA AZA Zb for worm-like models such as teeth grinding machine
	刃口斜度 $30^{\circ}4'$ Blade pitch $30^{\circ}4'$	刃口圆弧 $R0.5\pm 0.05$ Edge arc $R0.5\pm 0.05$	用于英国S10花键磨床 S10 spline grinding machine for the UK
	刃口整形角 $30^{\circ}55'$ Plastic edge angle of $30^{\circ}55'$	刃口圆弧 $R0.5\pm 0.05$ Edge arc $R0.5\pm 0.05$	用于日本45M轴颈磨床 Japanese journal grinder for 45M
	刃口整形角 $90^{\circ}10'$ Plastic edge angle $90^{\circ}10'$	刃口对柄部平面平行 $\leq 0.025$ Plane parallel to the edge of the shank $\leq 0.025$	用于GG24磨齿机 Grinding machine for GG24
	$a=90^{\circ}\sim 120^{\circ}$	笔尖对外径同心度 $\leq 0.01$ Tip of the outer diameter concentricity $\leq 0.01$	用于薄轨磨床HK-5MaaG等磨齿机 Rail grinding machine for thin grinding machine such as HK-5MaaG



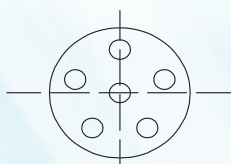
## (二)多晶天然金刚石修整工具 Polycrystalline Natural Diamond Dresser



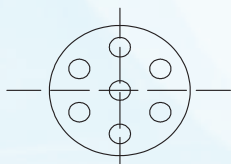
三点单排条形排列  
three points in a line



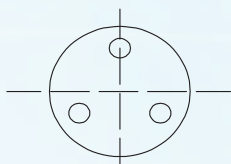
五点圆形排列  
five points in a circle



六点圆形排列  
six points in a circle



七点圆形排列  
seven points in a circle



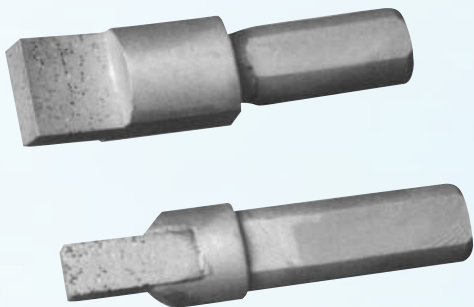
三点圆形排列  
three points in a circle

选用优质均匀的小颗粒天然金刚石原料,采用先进的烧结设备和工艺配方,把大小一致的颗粒整齐均匀地按所需图形排列,可以放一层,也可放二层、三层,根据用户需要,它具有降低工具成本,使用方便,磨耗均匀,不易过热等特点,适用于各种粒度砂轮的精密修整。

It's made of high quality fine diamond material, and advanced process and sintering equipments .The same size of particles arranged neatly in the graphics, can be put in a layer, but also be put in two or three cells, According to users' needs, it has a lower tool cost, is easy to use, abrades uniformly, not easy to overheat and so on, it is suitable for all kinds of granularity grinding wheel's precise dressing.



### (三)粉末金刚石修整工具 Powder Diamond Dresser



#### 1、粉末金刚石修整片 Powder Diamond Dressing Film

精选大小均匀一致的天然细颗粒金刚石,或细粒度人造金刚石,和粉末金属配方结合剂搅拌均匀,一起装入石墨模具中经加热加压烧结而成,烧好的片状形修整块可直接焊牢在刀杆上,也可焊牢在板状铁基上用螺钉机夹固定在刀杆上,修整角度可自由调整,特别适合在特殊异形砂轮的磨床上使用,它本身具有自锐性,不须重复修磨,可连续长时间使用,寿命长,品质稳定,经济实用。

It's made of the same size of natural diamond particles, or man-made diamond particles. This material can mix with powder-metal Uniformly, then fill with graphite mold and sinter by heat and pressure. The sintered diamond dressing film can be welded on the cutter-rod, dressing angle can be adjusted freely, particularly suitable for using in special-shaped grinding wheel. It has own self-sharpening, does not need to repeat grinding, and uses continuously for a long time, and has stable quality, economical and practical qualities.

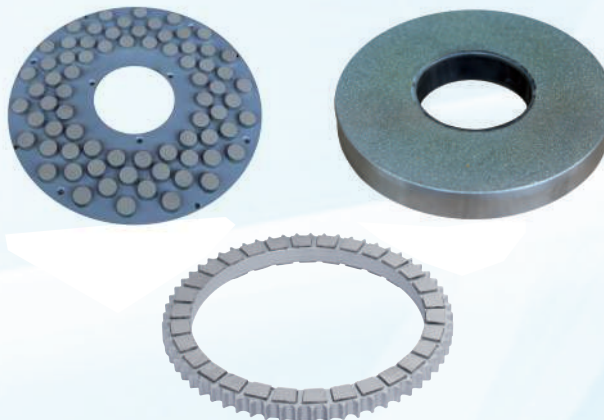
#### 2、双端面磨砂轮打锐修整圈 Two end Faces Grinding Wheel Dressing Ring

选用标准粒度的金刚石原料和金属结合剂配方,经加热,加压烧结成片块状,再把它牢固嵌焊在齿圈基体的正反两面,用专用设备,精密修磨加工,确保基体两面金刚石的平面度和平行度一致的技术要求。

该产品是立式双端面磨床上使两块砂轮上下同时精密修整的专用工具,如制冷压缩机阀板两平面的加工,精度要求平面度0.012,粗糙度在0.15,用砂轮刀修整的砂轮,很难达到工艺要求。

It is made of standard diamond materials and metal bonds. After the heated, pressurized sintering chip block, then it is firmly welded on both sides of the ring gear substrate, with specialized equipment, precision grinding process, to ensure that both sides of the diamond substrate flatness and parallelism of the same technical requirements.

The product is a precision trimming of specialized tools in a vertical double end faces grinding machine while grinding wheel up and down, such as the process of two planes on refrigeration compressor valve plate, precision flatness 0.012, Roughness 0.15. The Grinding wheels dressed by Grinding wheel cutter are difficult to get the process requirements



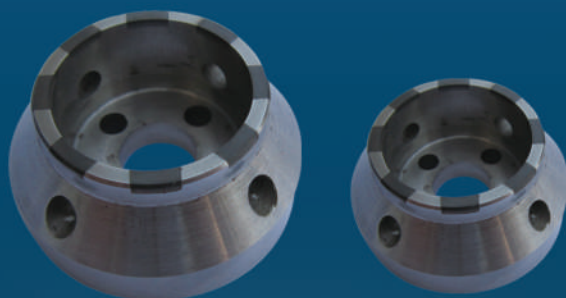
#### 修整方法 Dressing Methods

先用砂轮刀粗修,后再用打锐修整圈精密修整一下,精修整时,将三块或五块修整圈同时放入两片砂轮之间,使它随设备作同步行星运动,达到上下砂轮同时修整的效果,提高工件加工的精度。

First use grinding wheel cutter to dress Roughly, then use grinding wheel dressing ring to dress precisely. when dressing precisely, put three or five dressing rings into the middle of two grinding wheels, make them move with the equipments, It can make same dressing-effect of grinding up and down while dressing, to improve the accuracy of products.

# 金刚石其他系列

## OTHER DIAMOND SERIES





## 金刚石测量工具类 Diamond Measure Tools

本厂生产的金刚石测爪是把精选的优质天然金刚石,采用本厂首创的先进焊接工艺,直接焊接到不锈钢的基体上,经过专用设备精研而成,具有寿命长、精度高,对测量的零件不会造成任何划伤和阴影等特点,是制造精密零件测量内孔的理想工具。

The measurement jaw produced by our plant is directly welded and natural diamond on the stainless steel body by advance welding technology which is initally invented by our plant,then ground and polished by special device.It has characteristics of long service life,high precision and no any scratch or impairment on measured parts therefore it is an ideal tool to measure inner hole for manufacture of precision part.



## 金刚石支撑工具类 Diamond Support Tools

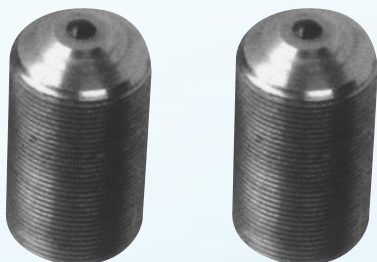
金刚石支撑器、螺丝金刚钉等 Diamond Supporters\Diamond Nails

PCD 适用于有色金属材料和非金属材料的加工

PCD is suitable for Colored-metal and non-metallic materials processing

PCBN 适用于黑色金属和热处理超硬材料

PCBN is suitable for black-metal and heat-treated super hard materials

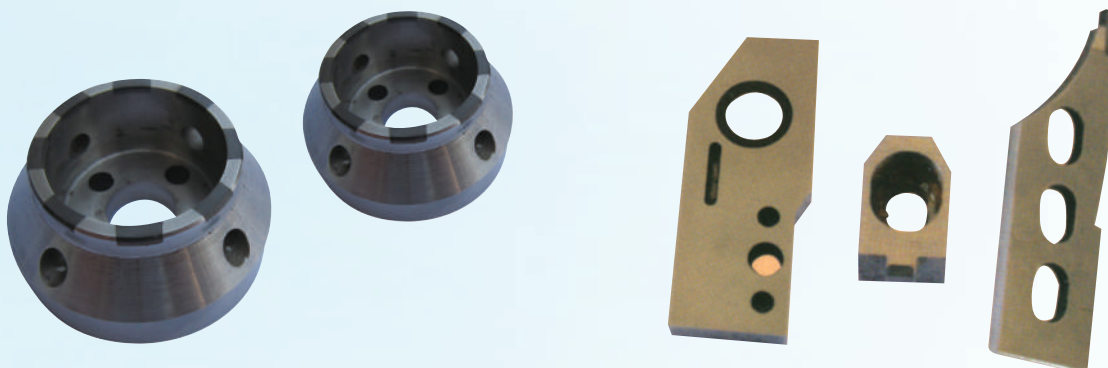


我厂可根据用户需要生产各种特殊规格的金  
刚石工具,并承接生产金刚钉、压头、洗石笔、硅片刀、圆  
镜机等。

Our plant can produce various special kinds and sizes of diamond tool on customer's request and undertake production of diamond nail,press heas,stonewashing pen,silicon chip cutter and round mirror machine etc.



## PCD 金刚石精密轴承支承器 PCD Dimond Precision Bearing Supporter



我公司选用进口优质聚晶金刚石,采用先进进口设备和自主开发的  
多项工艺技术制作的金刚石精密轴  
承支承器有如下特点:

进口优质聚晶金刚石具有硬度  
高,耐磨性好,摩擦系数低等特点。  
用它们制作的轴承支承器性能好,寿  
命长,质量稳定。由于节约了大量停  
机维修和辅助生产的时间,生产效率  
得到大幅度提高。

我厂采用的先进进口设备和工  
艺技术生产的金刚石支承表面光洁  
度可达镜面,不会对轴承零件表面造  
成任何划痕,保持了轴承零件表面原  
有的光亮。

通过多年以来的研究开发,我厂  
已具备制作和生产从微型,小型直至  
大中型轴承加工的金刚石精密轴承  
支承器的能力,而且也可以按照用户  
的要求,提供轴承加工中的多种金刚  
石耐磨部件。

My Company chooses to use import a superior quality to  
gather to the poly- crystal diamond,diamond the precise  
bearings that adpots a forerunner to import several craft  
technique creations of equipment and independent  
development accepts a machine like descend a  
characteristics:

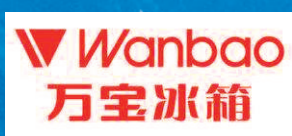
Import the superior quality gathers the poly- crystal  
diamond to have degree of hardness high,bear to whet sex  
good,coefficient of friction low etc. Characteristics.The  
bearings that uses their creation accepts the machine  
function good,the life span is long,the quality stability.In order  
to economizing to shut down to maintain in great quantities  
with time of lend support to the production,produce an  
efficiency to get a significant exaltation.

The forerunner of my factory adoption imports the  
equipments and the craft technique to produce of the  
diamond accept a clean degree of surface and can reach the  
mirror noodles,can't to the bearings spare parts surface  
result in any row scratch marks,keep the bearings spare parts  
surface an original shining degree.

Pass a research development over many years,my  
factory has already had manufacture and produce from the  
miniature,small scaled keep the diamond precise bearings  
that processes to the biga and medium- sized bearings  
ability that accepts a machine,and can also according to the  
equest of the customer,provide bearings to process various  
medium diamonds to bear to whet a parts.



# 合作企业





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