



长沙速钻工程机械有限公司

Changsha Fast Drill Engineering Machinery Co., Ltd.

地质岩芯钻探产品介绍

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## 公司简介

长沙速钻工程机械有限公司是湖南迪凡地质装备有限公司旗下一个子公司2008年诞生以来，公司位于美丽的山水城市-湖南长沙，产品涉及地质勘探、水电站、房勘、钻井、石油、煤田以及探矿、矿山等行业领域。主要生产热压金刚石钻头、电镀金刚石钻头、复合片金刚石钻头、扩孔器及地质钻杆和管材，经营钻机、水泵设备及配件。我们专注于 PDC 矿用钻头、PDC 石油钻头、PDC 煤层气钻头、PDC 定向钻头等产品的研发与制造。

多年来，我们始终致力于 PDC 钻头技术的创新与突破，不断提升钻头的地层适应性和性价比。我们深知，钻探效率与产品寿命的平衡是企业发展的核心。因此，我们力求在保障钻进效率的同时，延长产品的使用寿命，实现降本增效的目标。

我们的产品凭借着其卓越的性能，已经覆盖了国内知名的大型钻探设备公司、各探矿机械厂、国内部分煤矿等，并出口到印尼、巴基斯坦、非洲、等国家和地区，广受好评。

我们始终坚持以稳定的产品质量，以专业的技术支持，为客户提供完善而优质的服务。我们真诚的希望和各地的客户在诚实、守信、互利的基础上建立长期稳定的合作伙伴关系，携手未来，共同发展。

Changsha Speed Drilling Engineering Machinery Co., Ltd. is a subsidiary of Hunan Difan Geological Equipment Co., Ltd. Since its establishment in 2008, the company is located in the beautiful mountain and water city of Changsha, Hunan. Its products cover geological exploration, hydropower stations, housing exploration, drilling, petroleum, coalfields, as well as exploration, mining and other industries. We mainly produce hot pressed diamond drill bits, electroplated diamond drill bits, composite diamond drill bits, hole extenders, geological drill rods and pipes, and operate drilling rigs, water pump equipment and accessories. We focus on the research and manufacturing of PDC mining drill bits, PDC petroleum drill bits, PDC coalbed methane drill bits, PDC directional drill bits and other products.

For many years, we have been committed to innovation and breakthroughs in PDC drill bit technology, continuously improving the geological adaptability and cost-effectiveness of drill bits. We are well aware that the balance between drilling efficiency and product lifespan is the core of enterprise development. Therefore, we strive to extend the service life of our products while ensuring drilling efficiency, achieving the goal of reducing costs and increasing efficiency.

Our products, with their excellent performance, have covered well-known large-scale drilling equipment companies, various exploration machinery factories, some domestic coal mines, etc., and have been exported to countries and regions such as Indonesia, Pakistan, Africa, etc., receiving widespread praise. We always adhere to stable product quality and professional technical support to provide customers with comprehensive and high-quality services. We sincerely hope to establish long-term and stable partnerships with customers from all over the world on the basis of honesty, trustworthiness, and mutual benefit, and work together for the future and common development.



## PDC定向钻头

## PDC Bits for directional drilling

# 定向钻头

## Directional Drill Bits

### 定向钻头

PDC定向钻头，该钻头采用先进的PDC技术，结合定向钻进原理，能够在复杂地层中实现精准、高效的钻探作业。该钻头结合了现代科技与传统工艺，满足各种复杂地层的钻探需求，是钻探作业中不可或缺的重要工具。

### Directional Drill Bits

PDC directional drill bits, using advanced PDC technology combined with directional drilling principles, can achieve precise and efficient drilling operations in complex formations. These drill bits integrate modern technology with traditional craftsmanship, meeting the drilling needs of various complex formations and becoming an indispensable tool in drilling operations.

## 应用领域/Application Areas



## 产品特征/Product Features

适用于软至中硬岩层，复杂地层  
Suitable for soft to medium-hard formations and complex formations

高精度定向  
High-precision directional drilling

开分支效率高  
High branching efficiency

高强度和高耐磨性  
High strength and wear resistance

## 技术规格/Product Specifications

常规规格/Standard sizes:

φ 96, φ 98, φ 120, φ 132, φ 153

如需定制尺寸，请联系我们。

Note: For the customized size or design, please contact us.

## 产品展示/Product Showcase

φ98钢体定向钻头

φ98 Steel Body Directional Drill Bit



Φ98烧结体定向钻头

φ98 Sintered Body Directional Drill Bit



φ120钢体定向钻头

φ120 Steel Body Directional Drill Bit



Φ120烧结体定向钻头

φ120 Sintered Body Directional Drill Bit



# 定向扩孔钻头

## Directional Reaming Bits

### 定向扩孔钻头

PDC扩孔钻头，全称聚晶金刚石复合片扩孔钻头。是一种专门设计用于精确控制扩孔方向和深度的先进钻探工具。其独特的PDC材料和精密设计使得PDC定向扩孔钻头在石油、天然气、地质勘探等领域中展现出卓越的性能。

### Directional Drill Bits

PDC reaming bits, also known as polycrystalline diamond compact (PDC) reaming bits, are advanced drilling tools designed for precisely controlling the direction and depth of reaming. Their unique PDC materials and precision design enable PDC directional reaming bits to demonstrate excellent performance in fields such as oil, natural gas, and geological exploration.

## 应用领域/Application Areas



## 产品特征/Product Features



## 技术规格/Product Specifications

常规规格/Standard sizes:

φ 96- φ 153, φ 120- φ 165, φ 153- φ 193, φ 165- φ 203,  
φ 203- φ 245

如需定制尺寸，请联系我们。

Note: For the customized size or design, please contact us.

## 产品展示/Product Showcase

φ120-φ165扩孔钻头

φ120-φ165Directional Reaming Bit



φ120-φ203扩孔钻头

φ120-φ203Directional Reaming Bit



## 打捞钻头 Fishing Bits

### 打捞钻头

PDC打捞钻头是一种专为打捞作业设计的特殊钻头，专为解决钻井和井下作业中遇到的钻杆、钻头、套管、卡钻、夹钻等问题而设计。独特的PDC切削结构能够快速、有效地破碎和抓取井下的落物。

### Fishing Bits

PDC fishing bits are specialized drill bits designed for fishing operations to solve problems encountered in drilling and downhole operations, such as stuck pipes, jammed drill bits, casings, wedges, etc. The unique PDC cutting structure can quickly and effectively crush and grasp debris underground.

## 技术规格/Product Specifications

常规规格/Standard sizes:

φ 105- φ 169

如需定制尺寸，请联系我们。

Note: For the customized size or design, please contact us.

## 产品展示/Product Showcase

φ145打捞钻头

φ120 Steel Body Directional Drill Bit



φ169打捞钻头

φ169 Steel Body Directional Drill Bit



## PDC矿用钻头 PDC Mining Drill Bits

# 弧角钻头

## Arc Angle Bits

### 弧角钻头

PDC弧角钻头是一种高性能的钻井工具，它结合了聚晶金刚石的高硬度、耐磨性和优异的切削性能，以及弧角设计的高效钻进特点，能够在各种复杂地层中实现高效、稳定的钻探作业。

### Arc Angle Bits

PDC arc angle bits are high-performance drilling tools that combine the high hardness, wear resistance, and excellent cutting performance of polycrystalline diamond with the efficient drilling characteristics of arc angle design. They can achieve efficient and stable drilling operations in various complex formations.

## 应用领域/Application Areas



## 产品特征/Product Features

适用于中硬到坚硬地层，复杂地层  
Suitable for medium-hard to hard formations and complex formation

钻进效率高  
High drilling efficiency

高强度和高耐磨性  
High strength and wear resistance

性价比高  
Cost-effective

## 技术规格/Product Specifications

常规规格/Standard sizes:  
Φ65-φ250

如需定制尺寸，请联系我们。  
Note: For the customized size or design, please contact us.

## 产品展示/Product Showcase

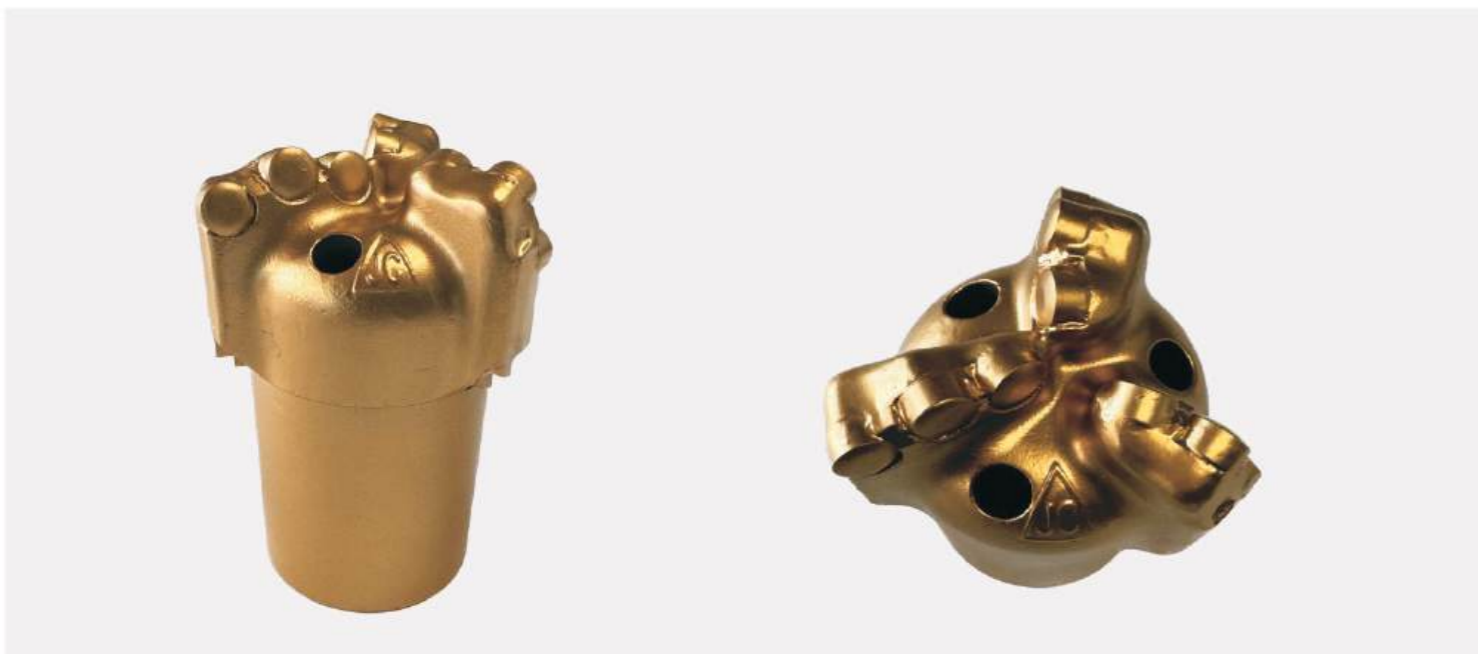
φ75三翼弧角钻头

φ75 Three-Wing Arc Angle Drill Bit



φ94三翼弧角钻头

φ94 Three-Wing Arc Angle Drill Bit



φ113三翼弧角钻头

φ113 Three-Wing Arc Angle Drill Bit



φ94四翼弧角钻头

φ94 Four-Wing Arc Angle Drill Bit



φ113四翼弧角钻头

φ113 Four-Wing Arc Angle Drill Bi



φ133四翼弧角钻头

φ133 Four-Wing Arc Angle Drill Bit



φ140四翼弧角钻头

φ140 Four-Wing Arc Angle Drill Bit



φ152四翼弧角钻头

φ152 Four-Wing Arc Angle Drill Bit



φ200四翼弧角钻头

φ200 Four-Wing Arc Angle Drill Bit



φ120五翼弧角钻头

φ120 Five-Wing Arc Angle Drill Bit



## 平顶钻头

## Flat Top Bits

### 平顶钻头

PDC平顶钻头是钻探行业中应用十分广泛的一类钻头。钻头沿刀翼周向不均匀布齿，其独特的平顶设计和聚晶金刚石的覆盖，使得它在各种复杂地层中都能保持高效、稳定的钻探性能。

### Flat Top Bits

PDC flat top bits are widely used drill bits in the drilling industry. The uneven tooth layout along the blade circumference and the unique flat top design covered with polycrystalline diamond ensure high-efficiency and stable drilling performance in various complex formations.

## 应用领域/Application Areas



## 产品特征/Product Features

适用于中硬岩层 Suitable for medium-hard formations	抗冲击能力强 Strong impact resistance
打孔直 Straight drilling	寿命长 Long lifespan

## 技术规格/Product Specifications

常规规格/Standard sizes:  
Φ65- φ120

如需定制尺寸，请联系我们。  
Note: For the customized size or design, please contact us.

## 产品展示/Product Showcase

φ65五齿平顶钻头

φ65 Five-tooth Flat Top Drill Bit



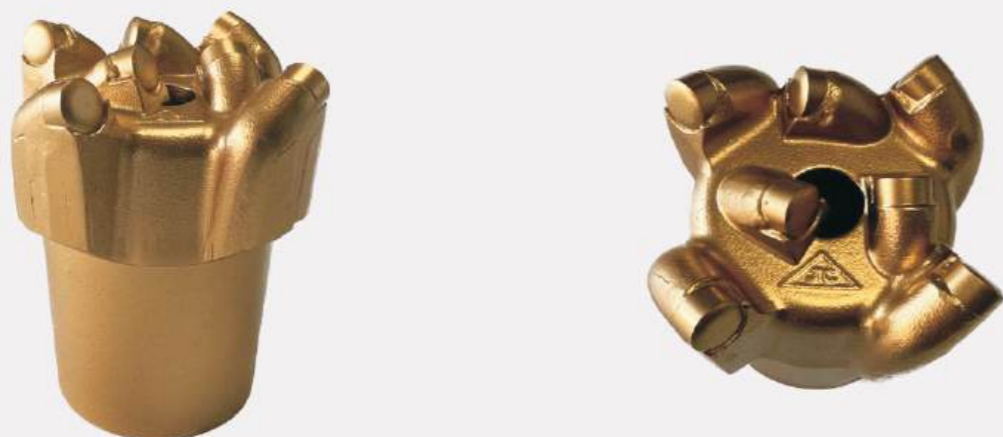
φ75六齿平顶钻头

φ75 Six-tooth Flat Top Drill Bit



φ94七齿平顶钻头

φ94 Seven-tooth Flat Top Drill Bit



## 内凹钻头 Concave Bits

### 内凹钻头

PDC内凹钻头采用先进的金刚石复合片（PDC）技术，有着独特的内凹结构，在钻探作业中有这卓越的稳定性，特别是在工勘领域被广泛使用。

### Concave Bits

PDC concave bits use advanced polycrystalline diamond compact (PDC) technology with a unique concave structure, demonstrating excellent stability in drilling operations, especially widely used in engineering geological surveys.

## 应用领域/Application Areas



## 产品特征/Product Features

适用于软至中硬岩层  
Suitable for soft to medium-hard formations

钻进稳定性强  
Strong drilling stability

## 技术规格/Product Specifications

常规规格/Standard sizes:  
Φ65-Φ300

如需定制尺寸，请联系我们。  
Note: For the customized size or design, please contact us.

## 产品展示/Product Showcase

φ94三翼内凹钻头

φ94 Three-Wing Concave Drill Bit



φ153三翼内凹钻头

φ153 Three-Wing Concave Drill Bit



# 开闭钻头

## Open-Closed Bits

### 开闭钻头

PDC开闭钻头是结合了金刚石的高硬度和耐磨性与现代机械设计的创新产品，其最大的特点是钻头底部有一个配备了精密的可开闭机构，具有开闭功能。

### Open-Closed Bits

PDC open-closed bits are innovative products that combine the high hardness and wear resistance of diamonds with modern mechanical design. The biggest feature is the precise open-closed mechanism at the bottom of the bit, providing open and close functions.

### 产品特征/Product Features

适合复杂地层  
Suitable for complex formations

可开闭功能  
Open-close function

寿命稳定强  
Stable and robust

### 技术规格/Product Specifications

常规规格/Standard sizes:  
Φ95, Φ113, Φ133

如需定制尺寸，请联系我们。  
Note: For the customized size or design, please contact us.

## 产品展示/Product Showcase

φ103三翼开闭钻头

φ103 Three-Wing Open-Closed Drill Bit



Φ113四翼开闭钻头

Φ113 Four-Wing Open-Closed Drill Bit



## 锚杆钻头 Anchor Drill Bits

### 锚杆钻头

PDC锚杆钻头以聚晶金刚石复合片为主要切削材料，结合现代制造技术，专为煤矿、建筑、隧道等建设工程的锚杆钻孔作业设计。这种钻头在锚杆支护作业中表现出色。

### Anchor Drill Bits

PDC anchor drill bits mainly use polycrystalline diamond compact (PDC) as the main cutting material, combined with modern manufacturing technology, specially designed for anchor hole drilling in coal mines, construction, tunnels, and other engineering projects. These drill bits perform excellently in anchor support operations.

## 产品特征/Product Features

攻击性角度设计  
Aggressive angle design

高性能PDC齿  
High-performance PDC  
teeth

## 技术规格/Product Specifications

常规规格/Standard sizes:  
 $\Phi 28$ ,  $\Phi 30$ ,  $\Phi 32$

如需定制尺寸, 请联系我们。

Note: For the customized size or design, please contact us.

## 产品展示/Product Showcase

$\Phi 28$ 锚杆钻头

$\phi 28$  Anchor Drill Bits



# PDC石油钻头 PDC Oil Drill Bits

石油钻头尺寸表  
Sizes of PDC Oil Bits

尺寸/size		API扣型/API Reg Pin	上扣扭矩/Make-Up Torque(KN.m)
英寸/in	毫米/mm	英寸/in	(KN.m)
4-5/8"	117.5mm	2-7/8 REG	6.1~7.5
6"	152.4mm	3-1/2 REG	9.5~12.2
6-1/2"	165.1mm		
6-3/4"	171.5mm		
7-1/2"	190.5mm	4-1/2 REG	16.3~21.7
7-7/8"	200.0mm		
8-1/2"	215.9mm		
8-5/8"	219.1mm		
8-3/4"	222.3mm		
9-1/2"	241.3mm	6-5/8 REG	38~43.4
10-1/2"	266.7mm		
12-1/4"	311.2mm		
12-1/2"	317.5mm		
13-1/2"	342.9mm		
13-5/8"	346.1mm		
14-3/4"	374.7mm	7-5/8 REG	46.1~54.2
15"	381.0mm		
15-1/2"	393.7mm		
16"	406.4mm		
17-1/2"	444.5mm		
26"	660.4mm		

备注：如需定制尺寸，请联系我们。  
Note: For the customized size or design, please contact us.

石油钻头设计特点

Design Features of PDC Oil Drill Bits

**刀翼设计**  
刀翼的设计，使钻头流道宽，有效防泥包，不对称的刀翼布局，降低了对切削齿的磨损。

**Blade Design**  
The design of the blade widens the flow channel of the drill bit, effectively prevents mud clogging, and the asymmetrical blade layout reduces the wear of cutting teeth.

**保径面设计**  
螺旋保径面的设计以提高布齿密度，降低钻头有效规径长度，增大保径面基，降低钻头扭矩。达到延长钻头寿命，改善钻头对水眼的控制能力。

**Gauge Protection Design**  
The design of spiral gauge protection surfaces improves tooth density, reduces the effective gauge length of the drill bit, increases the base of the gauge protection surface, and reduces the torque of the drill bit. This extends the lifespan of the drill bit and improves its control over water holes.

### 直刀翼高出刃设计

这一设计使得钻头具有更强的攻击性钻进速度，为用户带来更加高效的钻探体验。

### **Raised Blade Design**

This design provides the drill bit with a stronger attack drilling speed, bringing users a more efficient drilling experience.

### 多排齿结构设计

该设计能够保持高效的切削能力同时降低对钻头的磨损和损坏风险，有效地提高钻头的稳定性和抗冲击、抗研磨性能。

### **Multi-row Tooth Structure Design**

This design maintains efficient cutting ability while reducing the risk of wear and damage to the drill bit, effectively improving the stability and impact resistance of the drill bit.

### 抗回旋设计

我们采用了抗回旋设计，增强刀翼的稳定性并提高进钻速度。

### **Anti-Rotation Design**

We have adopted an anti-rotation design to enhance the stability of the blade and increase the drilling speed.

## PDC地勘钻头

## PDC Bits for Geological prospecting

# 取芯钻头

## Core Drill Bits

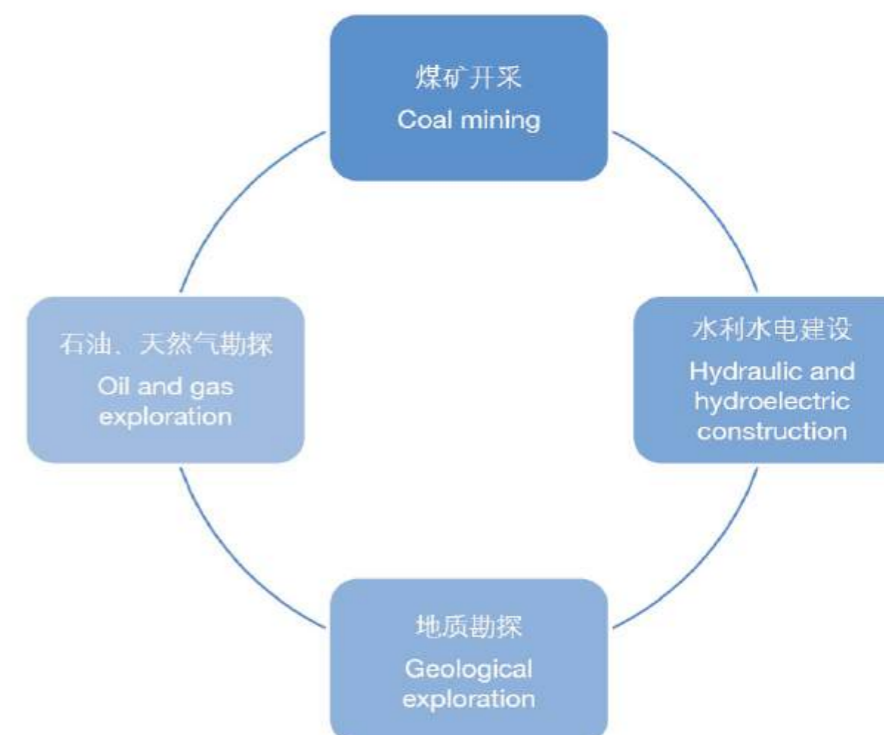
### 取芯钻头

PDC取芯钻头也叫空心钻头，是一种薄壁管状多齿片型的钻头，适应各种复杂岩层的抽心、取样。在地质勘探中使用最为广泛。

### Core Drill Bits

PDC core drill bits, also known as hollow drill bits, are thin-walled tube-shaped multi-toothed drill bits, suitable for coring and sampling in various complex formations. They are widely used in geological exploration.

## 应用领域/Application Areas



## 产品特征/Product Features



## 技术规格/Product Specifications

常规规格/Standard sizes:  
Φ50-φ300

如需定制尺寸，请联系我们。  
Note: For the customized size or design, please contact us.

## 产品展示/Product Showcase

单管取芯钻头

Single-Tube Core Drill Bit



肋骨取芯钻头

Rib Core Drill Bit



烧结体取芯钻头

Sintered Body Core Drill Bit



## 厂房设备照片/Plant and Equipment





## 车间场景 Workshop Scene

