



株洲信达机械科技股份有限公司  
ZHUSHOU XINDA MACHINERY TECHNOLOGY CO., LTD



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# 煤 截 齿

# COAL CUTTER PICK

专业 务实 创新

Professional, pragmatic, innovative



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株洲信达机械科技股份有限公司（以下简称信达机械）成立于2017年，是一家专注截齿研发、生产、销售、服务为一体的高新技术企业，湖南省“专精特新”小巨人企业。公司坐落于亚洲最大的硬质合金生产基地——湖南株洲，注册资本1000万元，现有全自动智能截齿生产线2条，能够满足年产40万支截齿需求。公司拥有实用新型专利7项，发明专利2项（授权）。目前公司主要经营的产品有隧道掘进齿、矿山巷道掘进齿、煤矿采煤截齿，铁路、公路、机场等基础设施建设用旋挖齿等各类掘进零配件产品。

秉承“诚信致远，通达天下”的企业经营理念，公司对标国际头部企业，严控产品品质，历经数年和上万次测试，研发出了独特的“截齿超耐磨涂层”技术，完美解决了恶劣工况及超硬岩掘进问题，在业内形成了良好口碑。经过数百次实地测试，公司截齿产品切割效率和使命寿命显著高于普通截齿30%以上。

信达机械还积极与国内知名高校开展产学研合作。我们与中南大学材料学院、地球物理信息学院联合研究的“截齿-岩石耦合数值模拟系统”，能够根据客户岩石样本数据，精准预测耗齿量，为客户项目成本测算提供数据支撑，预测准确率达到90%以上。

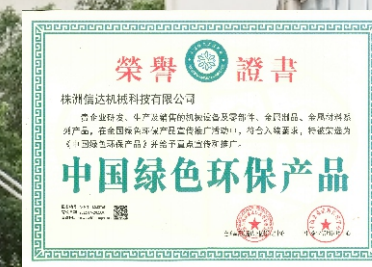
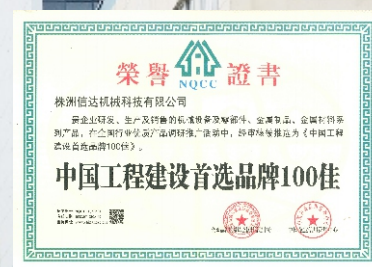
目前，公司产品遍布国内各地，已经与众多煤业和工程机械央企、国企建立了长期合作关系。信达截齿也已经出口欧美、南美、东南亚及非洲等国家，为众多国际客户所青睐。2023年，信达机械正式面向全国，诚邀经销商和代理商加盟，携手共赢，共创未来。

Zhuzhou Xinda Machinery Technology Co., Ltd. (hereinafter referred to as Xinda Machinery) was established in 2017. It is a high-tech enterprise that focuses on the research and development, production, sales, and service of cutting teeth, and a "specialized, refined, and new" small giant enterprise in Hunan Province. The company is located in Zhuzhou, Hunan, the largest hard alloy production base in Asia, with a registered capital of 10 million yuan. It currently has two fully automatic intelligent cutting production lines, which can meet the annual production demand of 400000 cutting teeth. The company has 7 utility model patents and 2 invention patents (authorized). At present, the company's main products include tunnel excavation teeth, mining tunnel excavation teeth, coal mining picks, and various excavation spare parts products such as rotary excavation teeth for infrastructure construction such as railways, highways, and airports.

Adhering to the business philosophy of "integrity and openness to the world", the company targets international leading enterprises, strictly controls product quality, and after several years and tens of thousands of tests, has developed a unique "cutting ultra wear-resistant coating" technology, which perfectly solves harsh working conditions and ultra-hard rock excavation problems, and has formed a good reputation in the industry. After hundreds of on-site tests, the cutting efficiency and mission life of the company's cutting products are significantly higher than ordinary cutting teeth by over 30%.

Xinda Machinery also actively cooperates with well-known domestic universities in industry, academia, and research. We have collaborated with the School of Materials at Central South University and the School of Geophysical Information to develop a "pick rock coupling numerical simulation system" that can accurately predict tooth consumption based on customer rock sample data, providing data support for customer project cost estimation, with a prediction accuracy of over 90%.

At present, the company's products are distributed throughout China and has established long-term cooperative relationships with numerous central and state-owned enterprises in the coal industry and construction machinery. Xinda cutting teeth have also been exported to countries such as Europe, America, Southeast Asia, and Africa, and are favored by many international customers. In 2023, Xinda Machinery officially launched nationwide and sincerely invites dealers and agents to join us, working together for a win-win situation and creating a better future.



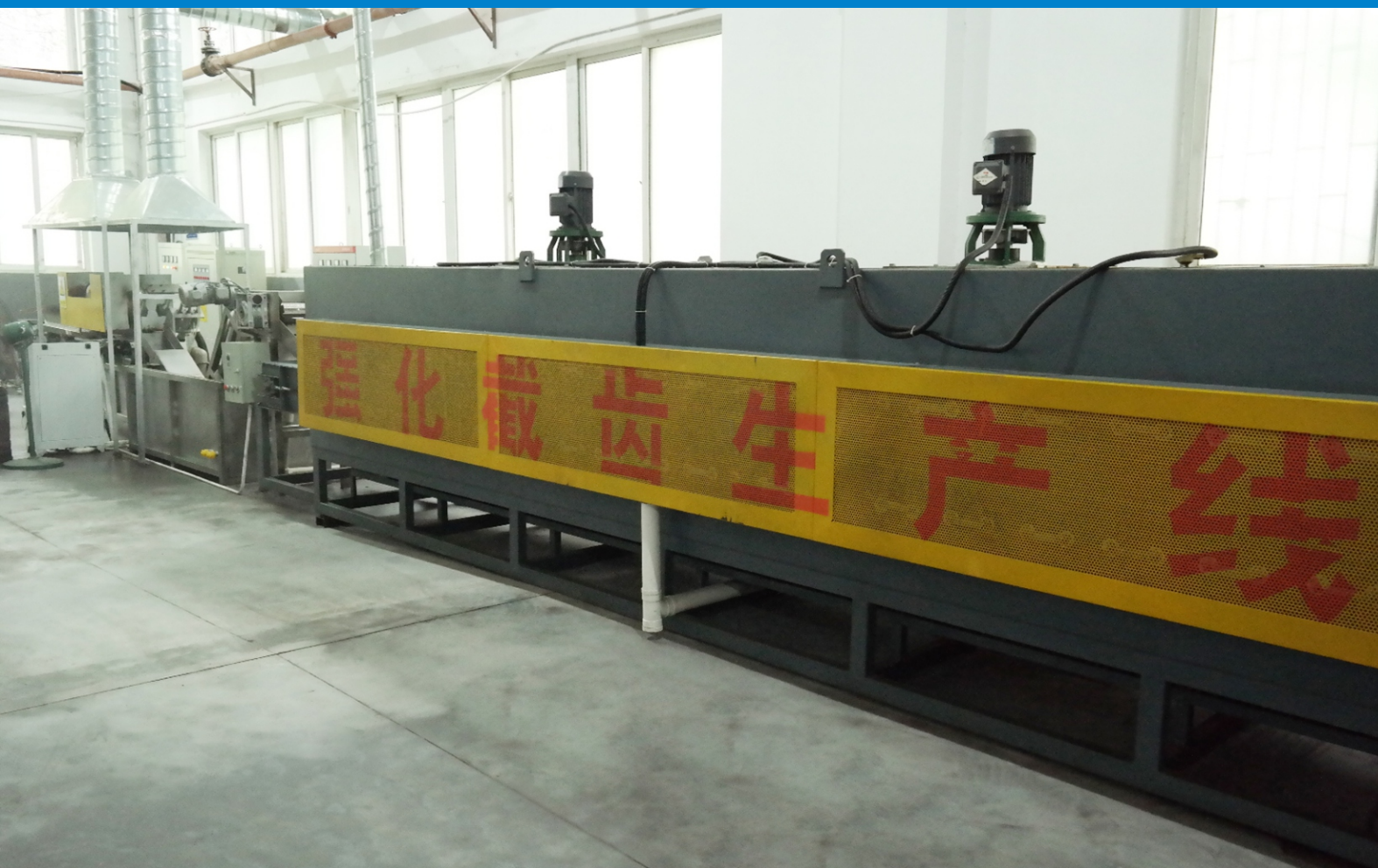


# 生产设备

Production Equipment

该炉为链带式步进炉，适用于截齿的批量钎焊热处理。加热的工件采用红外线测温仪进行测量，具有自动化程度高、操作技术要求简便、控制精度高、工作环境好等特点。

The furnace is a chain belt walking furnace, which is suitable for batch brazing heat treatment of pick. The heated workpiece is measured by infrared thermometer. It has the characteristics of high automation, simple operation technology, high control precision and good working environment.



## 履带式抛丸机

Crawler Type Shot Blasting Machine

履带式抛丸机利用高速回转的叶轮，将弹丸抛向滚筒内连续翻转的工件上，达到清理的目的。它适合对各行业中的小型铸件、锻件、冲压件等进行抛丸除锈、去除氧化皮和表面强化，特别适用于不怕碰撞的零件的表面清理及强化。

The crawler type shot blasting machine uses the high-speed rotating impeller to throw the shot in the cylinder, the workpiece is turned continuously to achieve the purpose of cleaning. It is suitable for small castings, forgings and stamping parts in various industries. It is especially suitable for shot blasting, scale removal and surface strengthening. It is used for surface cleaning and strengthening of parts that are not afraid of collision.



## 自动化堆焊设备

Automatic Surfacing Equipment

- 1、数字控制系统，多轴联动控制。
- 2、采用步进电机(可选伺服电机)运行稳定，精度高。
- 3、自动化程度高，堆焊过程一次完成，效率高。
- 4、系统稳定，抗干扰能力强。
- 5、可堆焊多种型号截齿及圆形工件。
- 6、小电流堆焊热影响小，钎焊合金头的截齿也可顺利堆焊，不影响钎焊层，不脱落。

1. Digital control system, multi axis linkage control.
2. Adopt step motor (optional servo motor) for stable operation and high precision.
3. High degree of automation, one-time completion of surfacing process, high efficiency.
4. Stable system and strong anti-interference ability.
5. Various types of cutting teeth and round workpiece can be hardfacing.
6. The heat effect of small current surfacing is small, and the pick of brazing alloy head can also be surfacing smoothly without affecting the brazing layer or falling off.





# 产品介绍及特点

Product Introduction And Features

截齿是采煤机和掘进机的直接切割刀具，工作条件非常恶劣，在使用过程中受到煤层或岩石的摩擦和冲击作用，一般工作寿命都比较短，其主要失效形式是因为截齿头部齿体磨损过快导致合金头脱落或者是齿体抗弯性能差，在受强力作用下弯曲或折断。

Picks are direct cutting tools of coal mining machines and roadheaders. The working conditions of the picks are really tough. They are affected by the friction and impact of coal seams or rocks during use. Generally, their working life is relatively short. The main failure mode is the pick head tooth body wears out too fast, causing the alloy head to fall off or the tooth body has poor bending resistance, which is bent or broken under strong force.



# 1

截齿的耐磨性能显著提高。使用先进的等离子熔覆强化技术在截齿头部熔覆一层高硬度金属陶瓷层，该金属陶瓷层具有硬度高，韧性好，耐磨耐冲击等特点，很好的保护了截齿齿体头部，降低了头部齿体磨损速度，使齿体与合金头同步磨损，达到了最佳的配合。

By using advanced plasma cladding strengthening technology to cladding a layer of high-hardness cermet on the pick head, the wear resistance of the picks is significantly improved. The cermet layer has the characteristics of high hardness, good toughness, high-standard of wear resistance and impact resistance, which could protect the pick body well. Due to the layer we used, the wear speed of head tooth body will be reduced, makes the tooth body and the alloy head wear synchronously to achieve the best fit.

# 2

抗弯性能显著提高。根据截齿在使用过程中的断裂部位及弯曲情况，研发出独特的热处理工艺等生产加工工艺。使齿体的整体抗弯能力及齿柄的表面强度得到了很大提高，保证截齿的正常使用。

The bending resistance is significantly improved. According to the broken position and bending situation of the pick during use, a unique heat treatment process and other production processing techniques have been developed. The overall bending resistance of the tooth body and the surface strength of the tooth shank have been greatly improved to ensure the normal use of the pick.

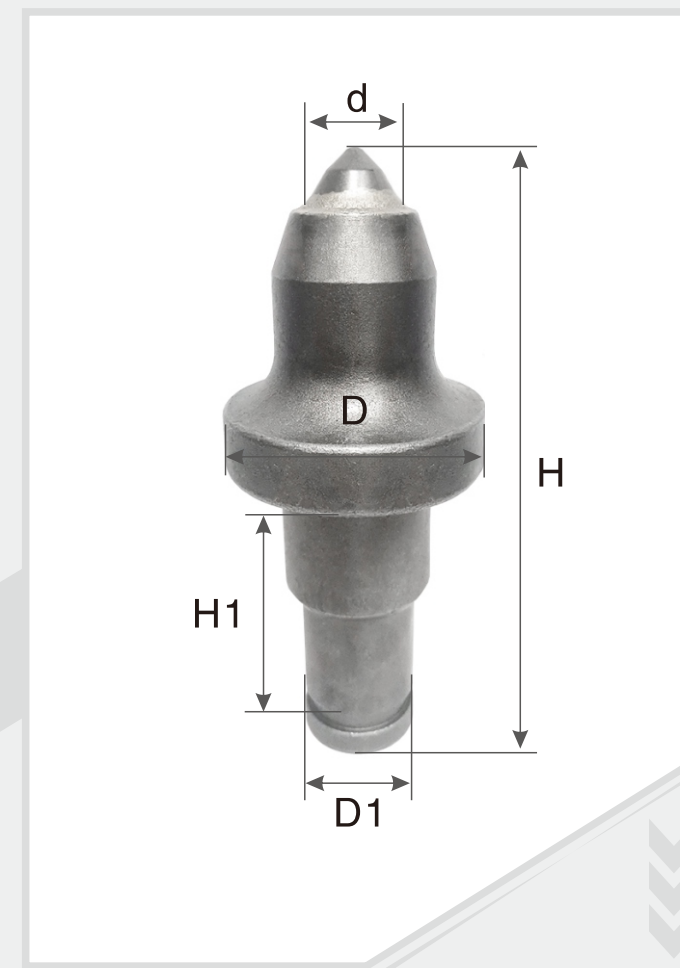
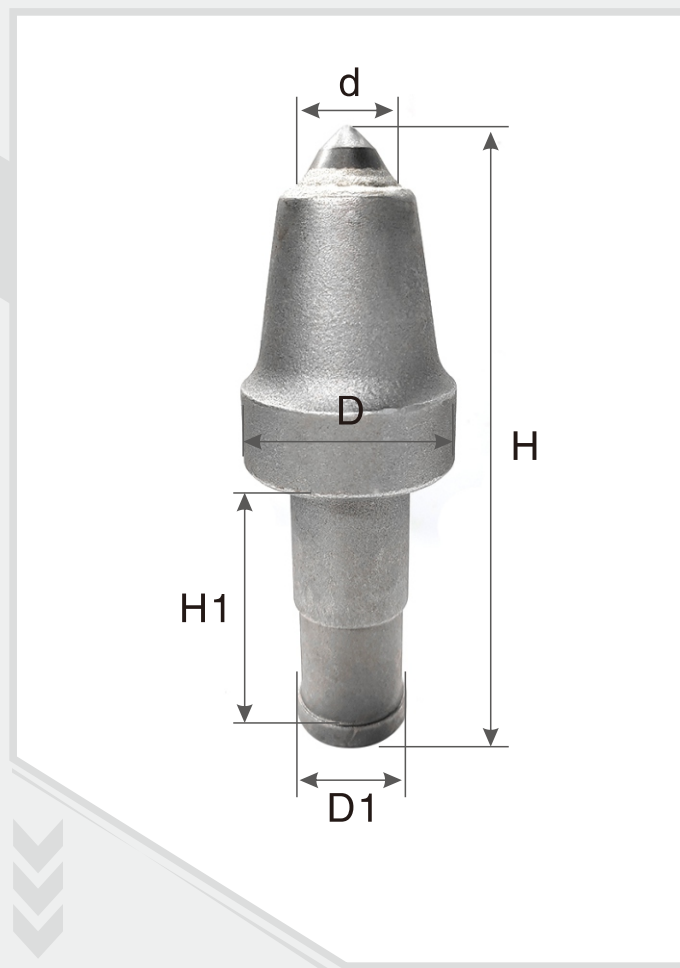
# 3

使用过程中不产生火花。普通截齿在使用过程中，特别是割岩石过程中会产生大量的火花，给煤矿生产带来了极大的安全隐患。我公司生产的等离子熔覆了一层高硬度的金属陶瓷层，在使用过程中该陶瓷层能减少90%的火花，极大的提高了煤炭开采的安全性。

Common picks will generate a lot of sparks during use, especially during rock cutting, which brings great safety hazards to coal production. To ensure there is no sparks during use, the plasma cladding produced by our company is cladding with a high-hardness cermet layer, which can reduce 90% sparks during use, which greatly improves the safety of coal mining.

# 煤截齿

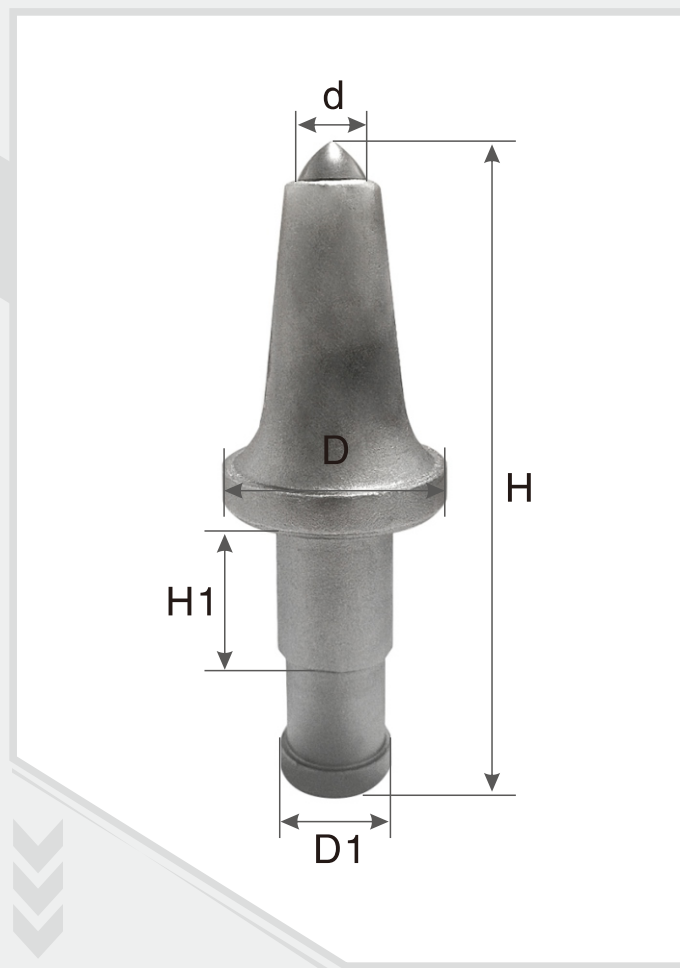




TYPE	d	H	D	D1	H1
U47-19	$\phi 19$	147.5	51	30/38	63.5
U47-22	$\phi 22$	150.5	51	30/38	63.5

TYPE	d	H	D	D1	H1
U47F-22	$\phi 22$	149.5	63.5	30/38	63.5
U47F-25	$\phi 25$	150.5	63.5	30/38	63.5
U47F-30	$\phi 30$	152.5	63.5	30/38	63.5

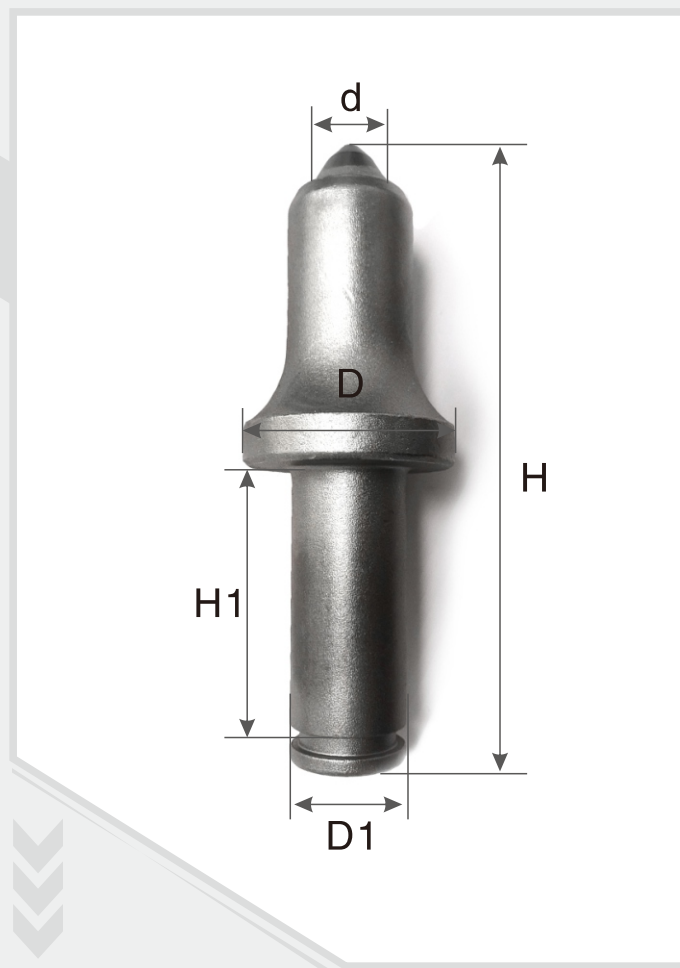




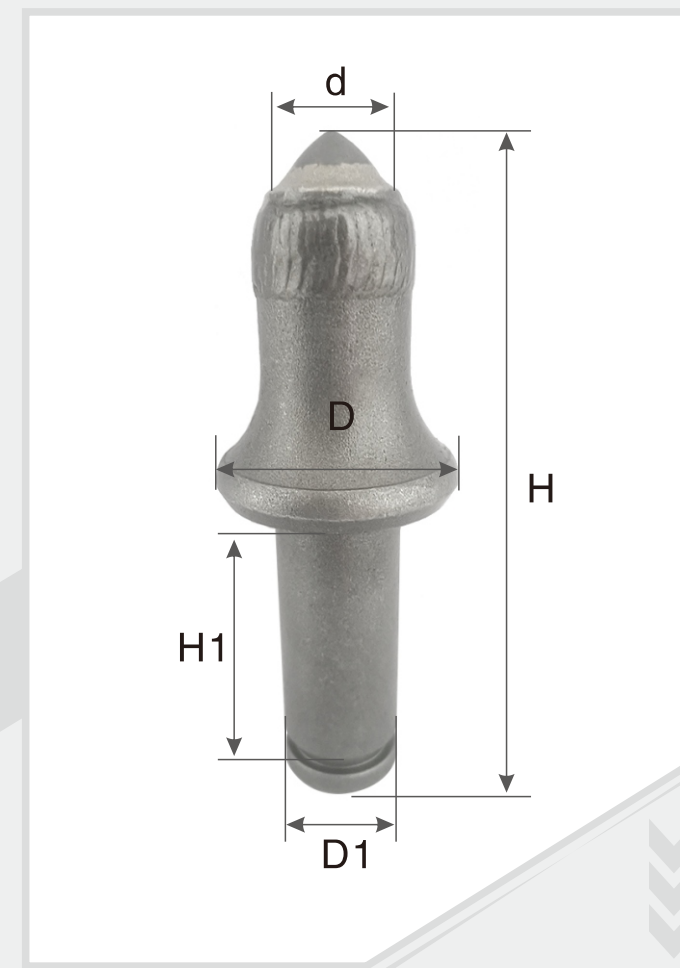
TYPE	d	H	D	D1	H1
U82-16	$\phi 16$	158	54.5	30	38.5
U82-19	$\phi 19$	159	54.5	30	38.5

TYPE	d	H	D	D1	H1
U84-19R	$\phi 19$	146.5	51	30	37.5
U84-22R	$\phi 22$	150.5	51	30	37.3
U84-25R	$\phi 25$	151.5	51	30	37.3



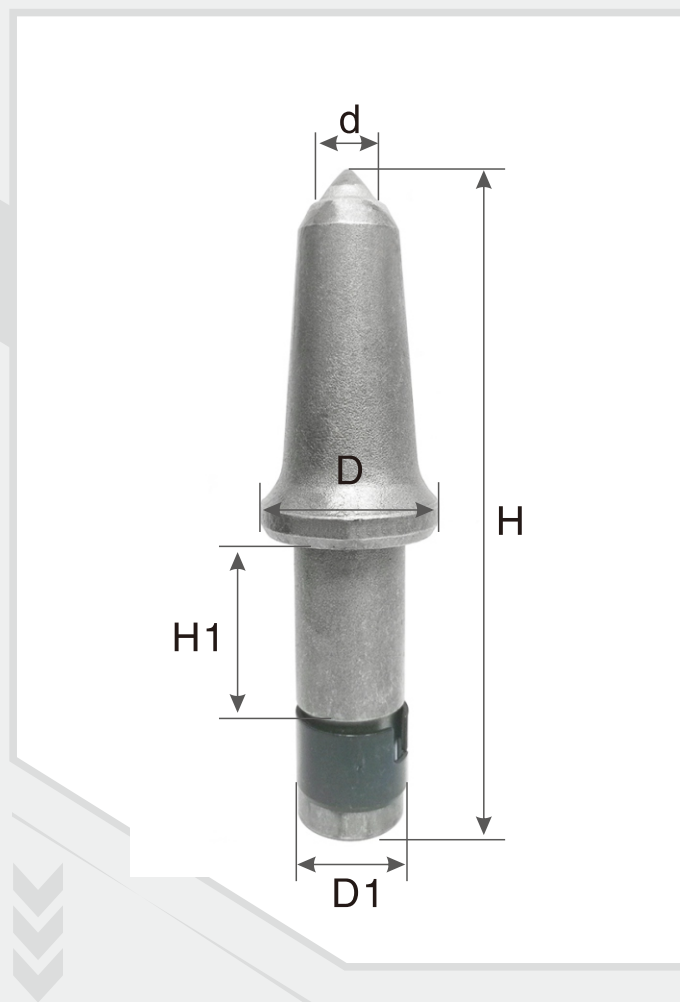


TYPE	d	H	D	D1	H1
U85-19	φ 19	149.8	55.7	30	65.3
U85-22	φ 22	153.8	55.7	30	65.3

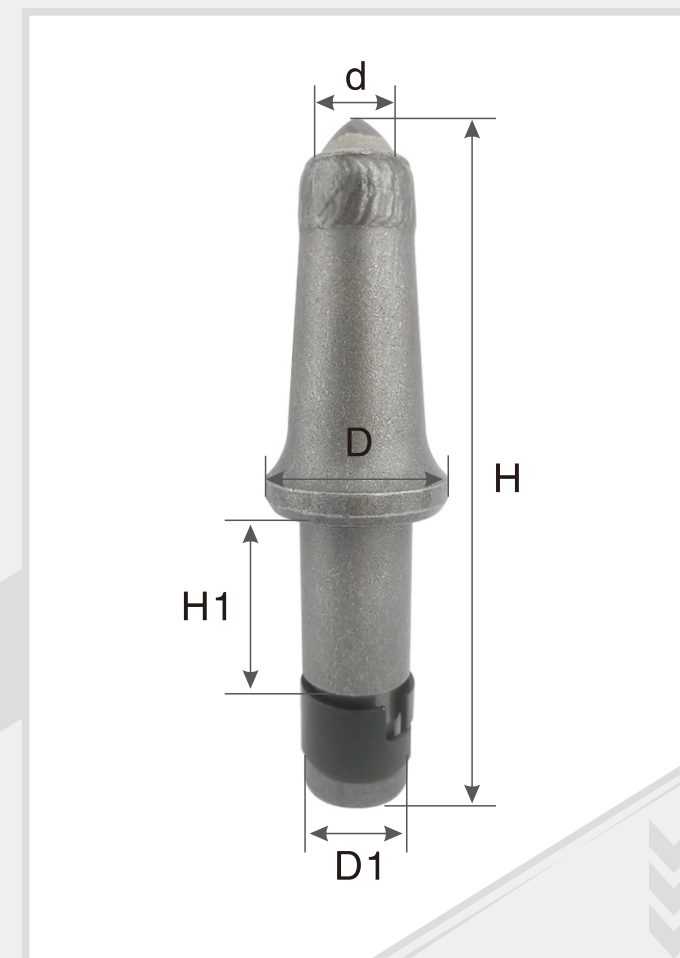


TYPE	d	H	D	D1	H1
U85-19R	φ 19	149.5	55.7	30	65.3
U85-22R	φ 22	153.8	55.7	30	65.3

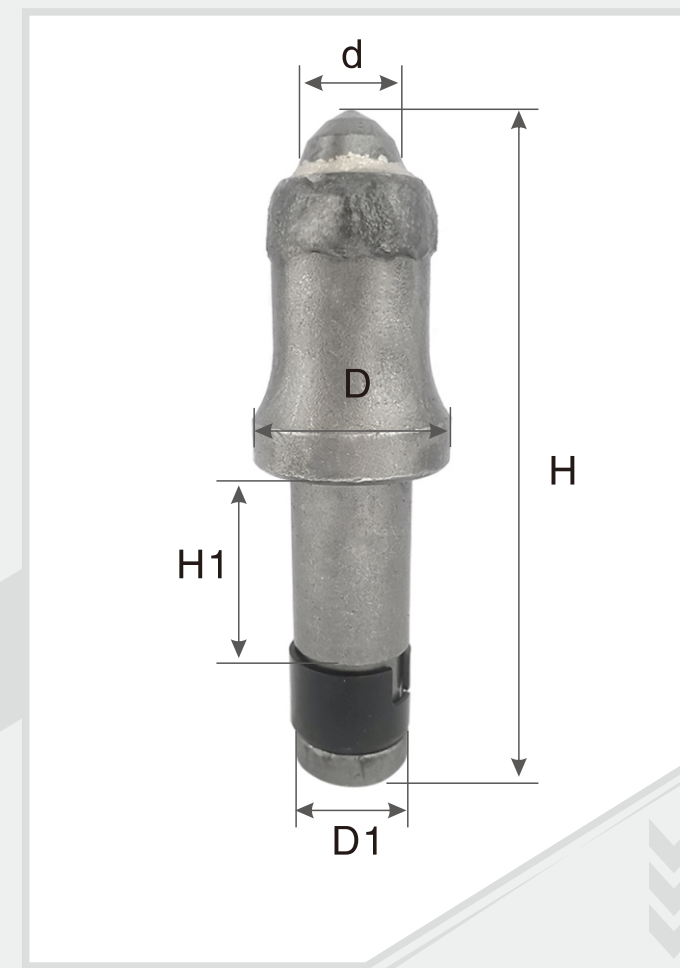
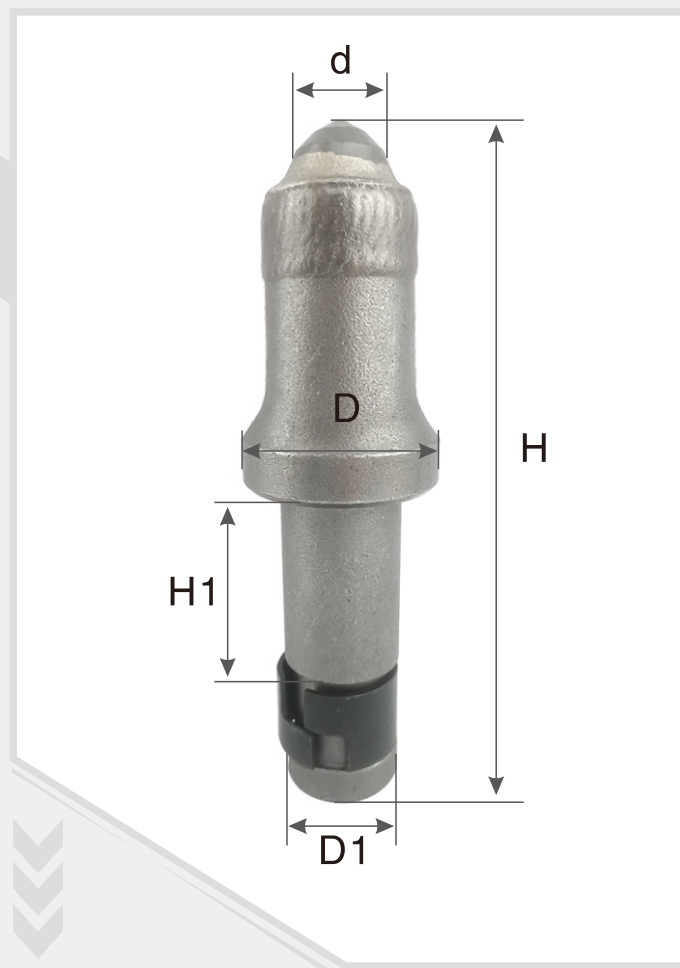




TYPE	$d$	H	D	D1	H1
U92-16	$\phi 16$	200	55	34.8	54.8
U92-19	$\phi 19$	200	55	34.8	54.8



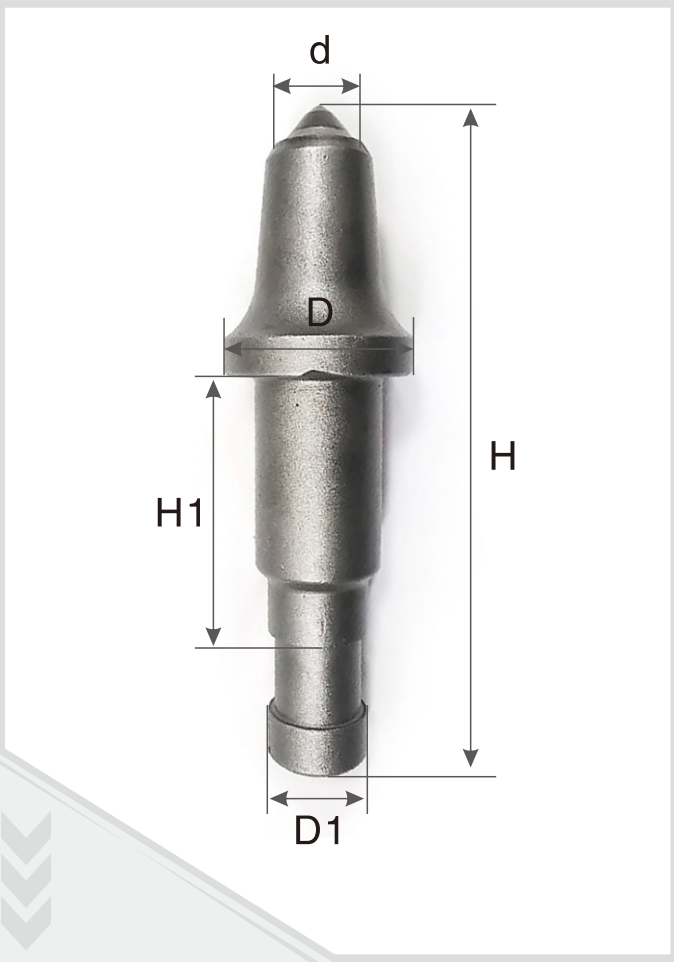
TYPE	$d$	H	D	D1	H1
U94-19R	$\phi 19$	199.7	55	35	54.8
U94-22R	$\phi 22$	203.7	55	35	54.8



TYPE	$d$	H	D	D1	H1
U95-22R	$\phi 22$	182	55	35	54
U95-25R	$\phi 25$	183	55	35	54
U95-28R	$\phi 28$	184.5	55	35	54
U95-30R	$\phi 30$	185	55	35	54

TYPE	$d$	H	D	D1	H1
U95-30C	$\phi 30$	185	55	35	54





TYPE	d	H	D	D1	H1
U170-19	φ 19	218	67.8	35/43	84.1
U170-22	φ 22	222	67.8	35/43	84.1
U170-25	φ 25	223	67.8	35/43	84.1

各种型号的齿座齿套

Pick Hold& Flxing Sleeve In Various Sizes



齿套



齿座





## 产品包装展示

Product Packaging Display



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