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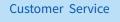


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R ጠ 🙀 ኻ 城 GREAT WALL



PRODUCTS FOR COAL MINING



Professional marketing team and technical service team, to provide personalized professional products and complete solutions. Domestic Sales Tel.: (0813)5516521 5516296 5516300

International Sales Tel.: 0086-813-5516691





CITT ZIGONG CEMENTED CARBIDE CORP., LTD







CITT ZIGONG CEMENTED CARBIDE CORP., LTD



自贡硬质合金有限责任公司

- 世界500强企业中国五矿的核心成员
- 中国第一家自主设计建设的大型硬质合金企业
- 国内领先的硬质合金及配套工具制造商
- 世界先进水平的表面工程技术服务提供者
- 国内领先的钨钼制品制造商

ZIGONG CEMENTED CARBIDE CO., LTD.

- Zigong Cemented Carbide Co.,Ltd(ZGCC) is a core member of China Minmetals which is one of the world 500 top companies.
- It is the first home-designed and built large scale cemented carbide manufacturing enterprise in China.
- It is one of the leading manufacturers of cemented carbides and related tools at home.
- It's a reliable supplier of the surface engineering technology with advanced world levels and their application services.
- It holds the leadership position in the tungsten and molybdenum product manufacture in China.







我们的优势 Our superiority

- □ Special design and development of materials
- Complete production procedure-from manufacturing of materials to making finished wear parts
- Advanced equipments and powerful systematic secure capability
- Quality control in wide range





品质成就未来 QUALITY ACCOMPLISHES THE FUTURE



Solutions

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Flow Chart for Coal Mining

02

Underground Mining—Rotary Drilling

04

Groungd and Underground Mining-Coal Washing

Solutions



01

Apllication Classification Ground Mining—Drilling and blasting Ground Mining—Coal Mining 03

Underground Mining—Mining

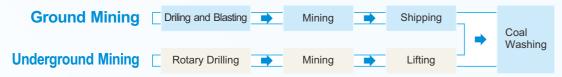
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Solutions

Flow Chart for Coal Mining



Apllication Classification



Ground Mining—Coal Mining

Equipments	Products	Application Parts
<section-header></section-header>	Miner Tools Shear tools	And Martineses
	Miner Tools Holder system	
	Cemented Carbide Parts Mining tips	
	Hardfacing Materials Welding wire	

Underground Mining——Rotary Drilling Equipments Miner Tools Rotary Drilling Rig Shear tools Miner Tools Holder syster



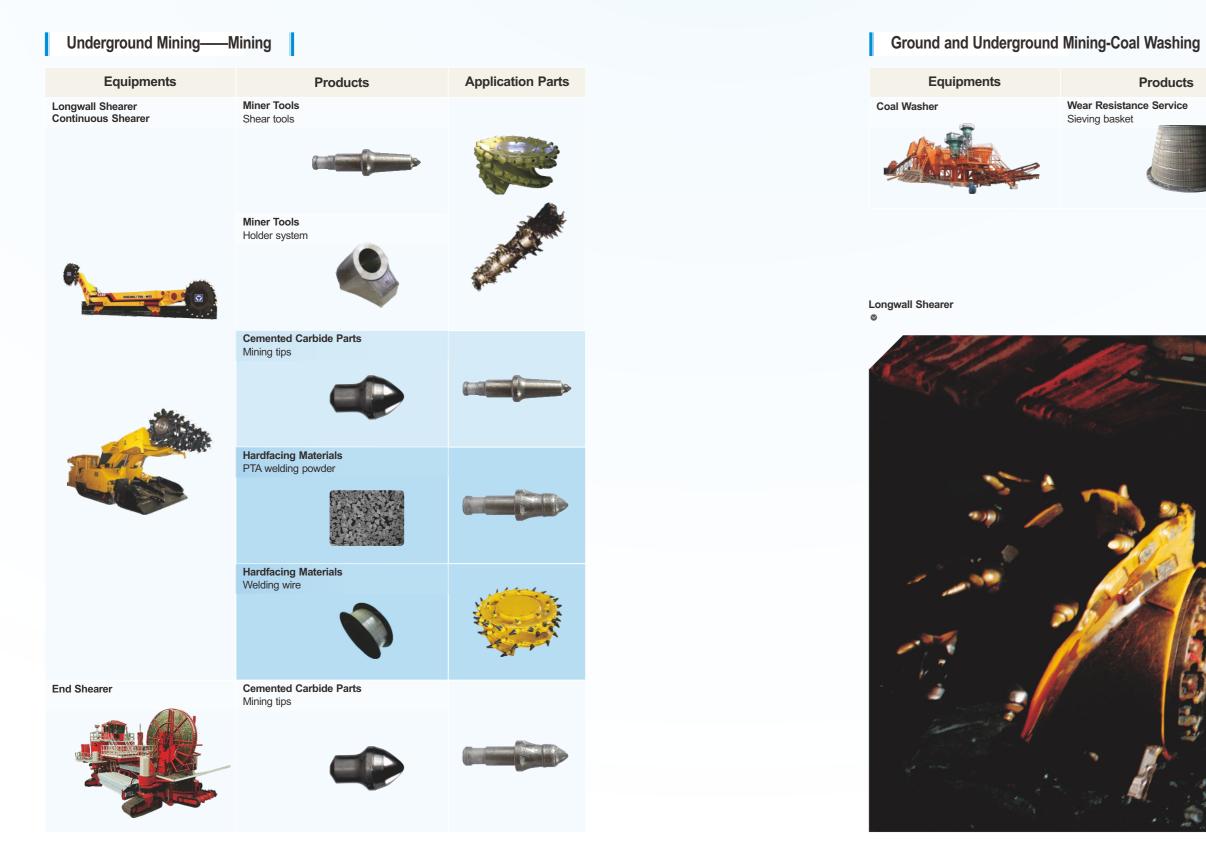






Products	Application Parts
Miner Tools Shear tools	
Miner Tools Holder system	
Cemented Carbide Parts Mining tips	
Hardfacing Materials PTA welding powder	
Hardfacing Materials Welding wire	









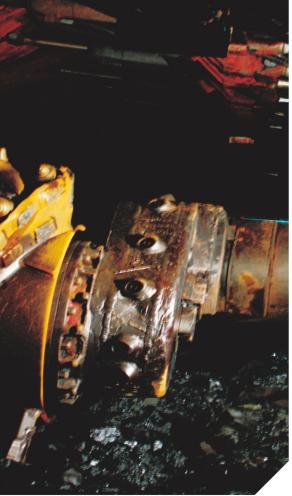
Products

Wear Resistance Service



Application Parts





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Parts Selection

Ground Mining—— Products for Drilling and Blasting **Carbide Products** ★ Engineering Tips Products **Application Parts**

Advantage:

After about 40 years' development, ZGCC accumulated special technology. For raw materials, The Topquality WC powder is produced by European high temperature carbonization furnace. For the technology, advanced paraffin hexane process and spraying process are adopted. For the equipment, Has introduced foreign advanced ALD low pressure sintering furnace, automatic manipulator press. For the inspection, It has obtained the national CNAS laboratory recognized quality testing center, with first-class product composition analysis, physical and metallographic performance testing and product size precision measurement capabilities.

R & D as per requirements:

We have a professional technical team, and constantly looking for new materials technology breakthroughs in order to improve the service life of the product, has formed cutter tooth alloy tools, mining drilling alloy, roller press column nails, rotary drilling teeth, alloy matrix PDC, geological exploration and so on six big series of products, used in coal mining, road surface maintenance, metallurgical processing, oil and gas, iron and steel, cement, railway and water conservancy and highway bridge construction and other new fields at present.









Applications

It is used for manufacturing column teeth bit and drill bit, and it is mostly used for ground mining.

Ground Mining—— Products for Drilling and Blasting

Miner Tools ★ Shear Tools



Advantage

- □ High-quality raw materials. cold forged steel parts. The wear and breakage resistance improved significantly because of ultra-coarse grain size.
- □ Advanced technology and equipment. Continuous automatic brazing production line, high stability. special treatment process, great wear resistance.

Miner Tools ★ Holder System



R & D as per requirements:

We can cooperate with customers to R&D ground carbide mining tips, tips mating and holders.

Carbide products ★ Shear Bits



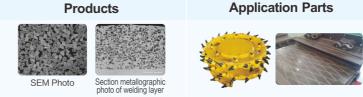
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Hardfacing Materials * PTA Welding Powder-Casting WC/Ni Based Self-Fluxing Alloy



Products Introdution and Its Properties:

It is one kind of dark grey particle, casting WC and Ni - based alloy powder mechanical mixture, Cast WC is irregular shape, high hardness (2200 HV0.1), good wear resistance; Ni - based alloy powder is spherical or nearly spherical, and with good wettability with WC casting. PTA surfacing welding layer has low porosity and good wear resistance.

Hardfacing Materials * Welding Wire—Wear Resistant High Chromium Cast Iron Surfacing Welding Wire



Products Introdution and Its Properties:

By filling iron-based alloy powder which contains Cr, Mo, Nb and so on into the steel strip and drawing it into welding wire to different diameters. The deposited metal is high chromium cast iron alloy. The welding layer has high hardness and good wear resistance of abrasive particles. Cracks on the surface can release stress.







Applications

It is widely used in pre-strengthening or repairing wear - resistant surface. Application of mining industry shearer roadheader, cutting teeth, middle slot, hydraulic prop and other surface enhancement surfacing welding.

Application Parts



Applications

It is used in repairing and remanufacturing wear-resisting plate, hammer head, engineering cutting teeth, propeller and excavator leading edge and so on

Underground Mining-Rotary Drilling Relevant Products

Miner Tools ★ Shear Tools





Rotary drilling, cutting a passage into a coal seam

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Miner Tools ★ Holder System



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Carbide Products ★ Shear Bits



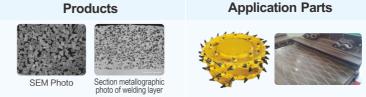
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Miner Tools ★ Holder System



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Carbide Products ★ Shear Bits



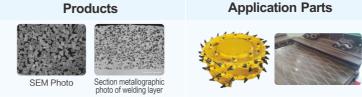
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Ground and Underground Mining——Coal Washing

Wear Resistance Service **★** Sieving Basket



Application Parts



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Applications

Advantage:

Siever, it is a part of coal washing equipment for sieving, used for coal and water separation. Supersonic flame spraying technology can effectively enhance the service life of the face in contact with coal by 2–4 times.

R & D as per requirements:

In the field of coal mining and deep processing, our company can specify wear-resistant and corrosionresistant coating products according to the parts of the equipment under various wear and corrosion conditions of customers, which can effectively extend the service life of relevant parts and improve production efficiency.











DRILLING SERVICE AND COMPLETION Parts for LWD & MWD

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