



济南市冶金科学研究所位于济南市高新技术产业开发区，是山东省认证的高新技术企业，是中国专业硬质合金生产基地之一，企业集科、工、贸于一体，是具有自营进出口权的股份制企业，近四十年的发展，企业拥有了雄厚的研发能力和先进的生产设备。我所生产的“齐鲁牌”硬质合金及相关制品，广泛应用于机械、冶金、石油、矿山、建筑、电子、航天航空等领域，产品性能优良，品质卓越，多系列产品被国家科技部及经贸委认定为国家重点新产品，在国内外市场享有很高的声誉。产品远销美国、加拿大、意大利、德国、日本、韩国、台湾等五十多个国家和地区，年出口创汇1000万美元，企业已通过ISO9001质量管理体系认证，并被评为一等AAA级信誉企业。

**企业文化宗旨：**近四十年的发展积累，造就了独特的企业文化，其精髓就是：“科技创新，铸出好产品；爱企敬业，结成一家人。”“产品质量是企业的生命”“打造齐鲁品牌，跻身硬质合金强势企业”；不断发展和丰富的企业文化理念，形成了推动企业前进的强大合力。

**我所硬质合金制品种类齐全，可提供如下产品：**

- 机械加工类焊接刀片、机夹刀片
- 矿用凿岩钎片、球齿、截齿；地质勘探、煤炭采掘工具
- 金刚石生产用顶锤
- 盾构刀具
- 建材加工用刀具
- 木工刀具
- 硬质合金圆棒、圆盘和板材
- 硬质合金轧辊、拉丝模
- 碳化钨粉及混合料

根据客户需要，可按国内、国际标准供货，也可承接各类异型产品的加工生产。热诚欢迎国内外客户惠顾。



**Brief Introduction**

Jinan Institute of Metallurgical Science (JIMS) is located in Jinan High-Tech Industrial Development Zone, certificated as a high-tech enterprise by Shandong Province. JIMS is a specialized base of cemented with scientific research, trade and manufacturing industry in a whole and with self-managing import-export power by the state of China, which assert sufficient ability of R&D, advanced equipment for production for almost forty years development. The "QILU" brand cemented carbide and relative products from JIMS have excellent performance and high quality, many series of products have been accepted as the important and new products by the Department of the National Technology & the Council for the Financial and Trade of China. JIMS products widely used in machinery, metallurgy, petroleum, mining, construction, electronics, aerospace and other fields. JIMS products enjoy great famous both at home and abroad market, selling well in America, Canada, Italy, Germany, Japan, Korea and Taiwan etc, more than fifty countries and areas. The annual foreign exchange we earn is more than 10 million U.S. D. JIMS has passed ISO9001 standard of the Quality Manage System Certificate of Conformity and be appressed the first class of the Enterprise Credit Certificate AAA.

The Business Culture Tenet: Through almost forty years of development and accumulation, we bring up unique corporate culture, the essence of which is: "scientific and technical innovation to supply high-quality products; Love the enterprise and respecting work to become one family." "Quality is life" "Building QILU brand makes our enterprise rank among dominant firms of cemented carbide". Unceasing development and improvement of the enterprise culture concept form a forceful resultant force to push forward the development of our enterprise.

We have a complete Variety and could supply the following cemented carbide products:

- Indexable inserts; mechanically clamped tips.
- Button bits, inserts and tips for mining; coal-cutting tools for coal-excavating.
- Cemented carbide anvil for the diamond industry.
- TMB cutter tools.
- Cutting tools for building material.
- Cutting tools for woodwork, (Rotary burs)
- Solid cemented carbide rod, disk and bar.
- Solid cemented carbide roll, drawing die.
- Cemented carbide powder and mixed powder.

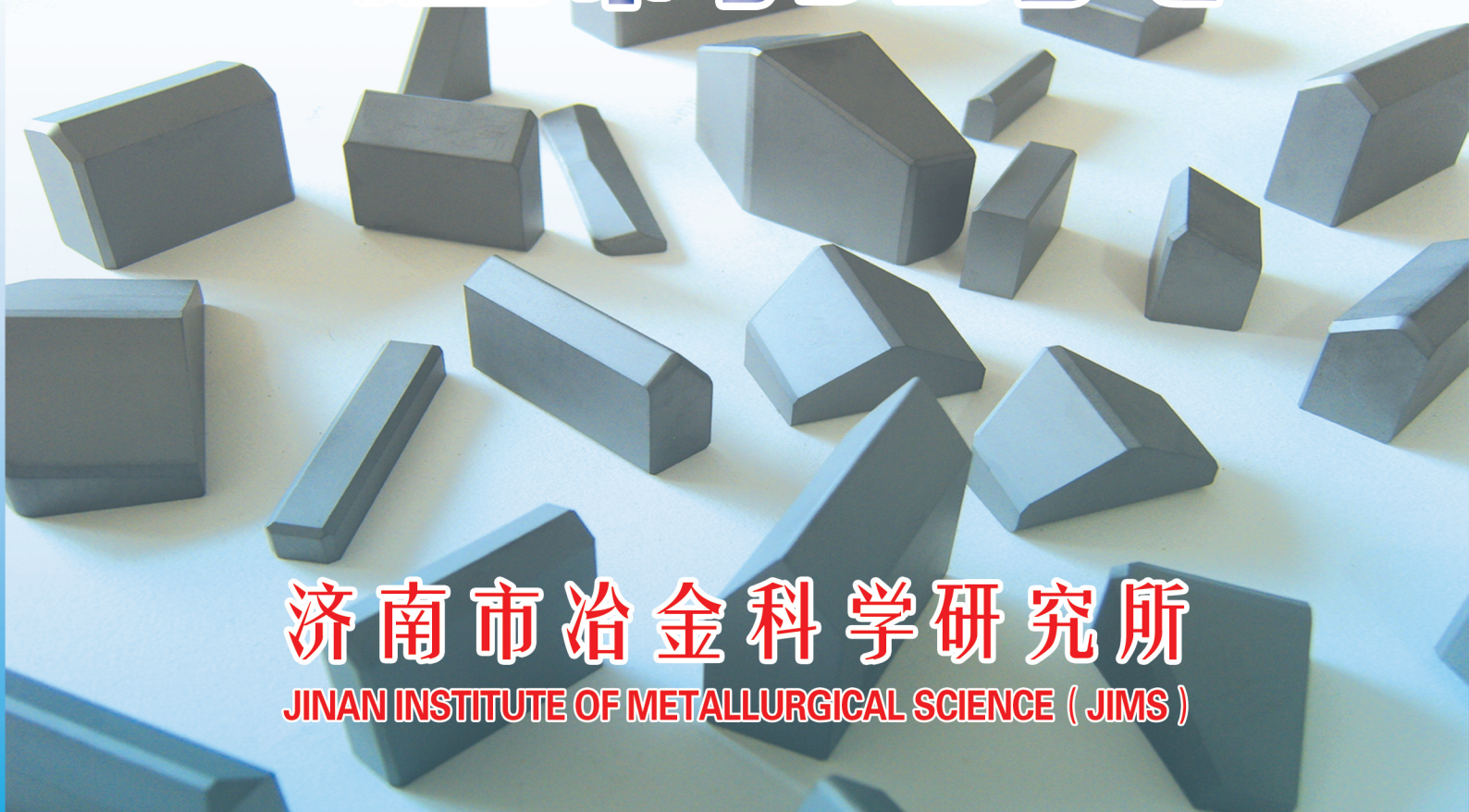
We could supply the products according to the standard of ISO and the domestic, moreover, we could work according to the drawings from customers.

Welcome your patronage of domestic and overseas customers to our company!

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# 硬质合金 盾构刀具



**济南市冶金科学研究所**  
 JINAN INSTITUTE OF METALLURGICAL SCIENCE ( JIMS )



## 盾构刀具常用硬质合金牌号

济南市冶金科学研究所是国内最早研制开发并批量生产盾构刀具硬质合金的企业，多年来与日本多家著名公司合作，提供盾构机配套硬质合金刀具。盾构齿合金已成为我所主打的品牌产品之一。通过十多年的技术积累和装备优化，自主研发生产了JK、JN等多牌号的盾构齿硬质合金，品种多达300余种，年生产能力150多吨。随着盾构机在世界范围内隧道开凿工程中的应用，我所生产的盾构合金经历了各种地质环境的考验，进尺长度、刀具更换频率均达到甚至优于国际同类产品，而且对复合地层具有良好的通用性。本公司已成为多家国际知名企业在中国盾构合金的定点生产厂家。

牌 号	密 度	硬 度	抗弯强度	相当于ISO
Grades	Density(g/cm <sup>3</sup> )	Hardness(HRA)	T.R.S(N/mm <sup>2</sup> )	ISO
JN10	14.50	89.5	2650	G10
JK3	14.70	87.7	2400	G15
JK2	14.55	87.0	2450	G15
JK1	14.45	86.7	2500	G20
YG11C	14.40	86.5	2450	G20
JK13	14.30	86.0	2550	G30
JK15	14.10	85.0	2600	G30



Jinan Institute of metallurgical science (JIMS) is the earliest tungsten carbide enterprise professional in developing and mass producing carbide for TBM cutter tools. We have done business with many famous companies in Japan for many years; supplying the high-quality carbide match the cutter tools of TBM machine. This kind of carbide product for the TBM cutter tools is becoming one of key product in our company. We developed independent JK、JN ect.grade carbide for TBM cutter tools through technological accumulation and optimize equipments into about decade period; the all kinds of types will be about 300sets and annual production capability is about 150tons. Follow the developing TBM machine widely used in the tunnel engineering in the world; our carbide products passed the test under all kinds of geological situation. The dig distance and the frequency of change cutter tools could achieve or exceed international similar products; our carbide also has good universality in the complex geology situation. JIMS has become the appointed supplier by many international world famous TBM machine manufacturer on the carbide products of TBM cutter tools.

