

HAG CARBIDE

Empowering Global Manufacturing with Carbide Technology

Trusted by 20,000+ Businesses



www.hao-carbides.com

Respect For Nature And Love For Mankind, Deliver The Truth,
Kindness, And Beauty.

About Us

Trusted by 20,000 clients across 50 countries
we deliver 16 years of proven excellence with a commitment to 99% satisfaction

 Company Team

 Plant Area

 Partner Enterprises

120⁺

1200m²

3000⁺

Principal Business Lines:

- 01 High-Performance Cemented Carbides
- 02 Tungsten Heavy Alloys
- 03 Tungsten-Molybdenum Alloys



13-Year Honoree for Contract Compliance and Creditworthiness

10⁺ Utility Model Patents





Patents as the Foundation
Credibility as a Guarantee
Innovation Leadership



Corporate Honors

20 Corporate Innovation Awards

10 Utility Model Patents

13 Year Honoree for Contract Compliance and Creditworthiness

98%⁺

Customer Satisfaction Rate

30⁺ 200⁺

Customer Coverage Across China

20000⁺

Served Clients Cumulatively

99%⁺

Sales by Product Category Percentage

10⁺

Utility Model Patents



Featured Core Products

Empowering Advanced Manufacturing

Energy Exploration



<Energy Exploration>



<Tungsten Carbide Dies>

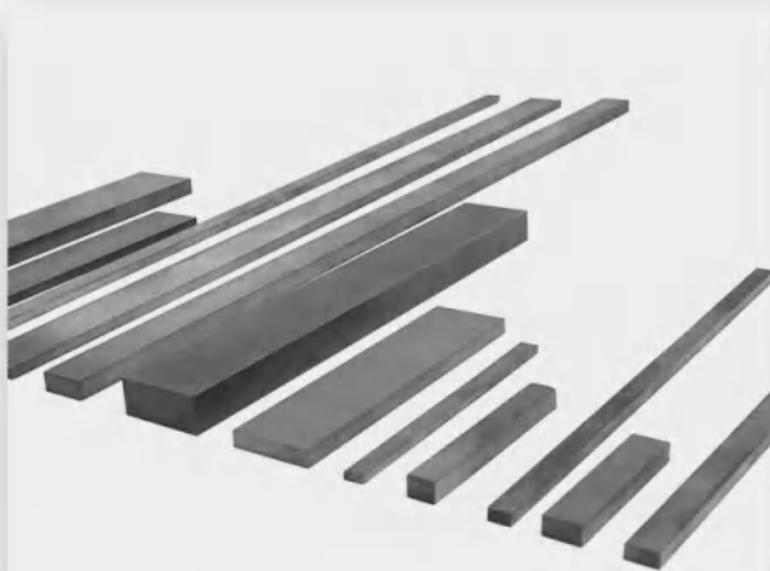


<Tungsten Carbide Plates>

← Products Are Constantly being updated →

Featured Core Products

Specially Designed for Drilling, Cutting, and Wear-Resistant Parts



<Tungsten Carbide Strips>



<Tungsten Carbide Rods >



<Tungsten Carbide Buttons>

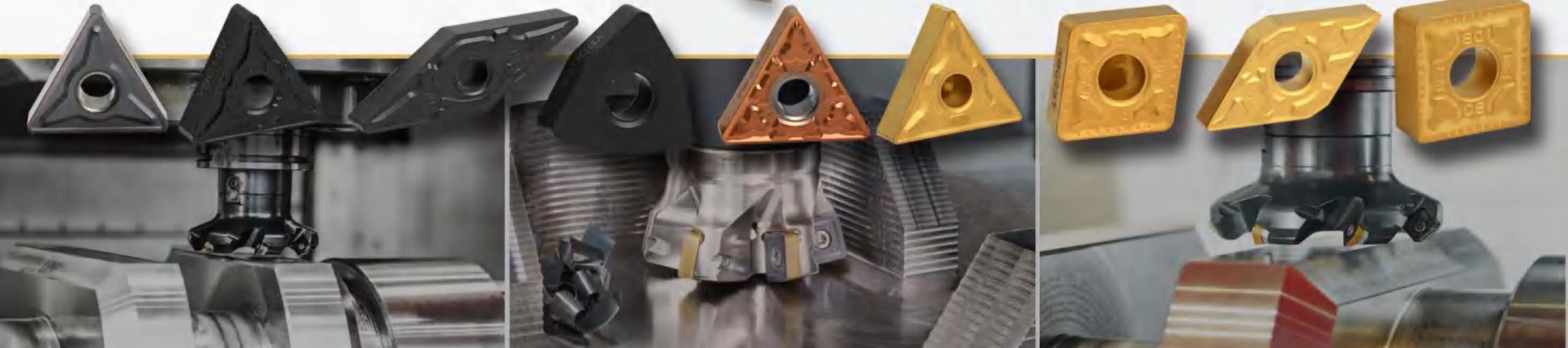
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HAG CARBIDE

Tungsten Carbide CNC Inserts

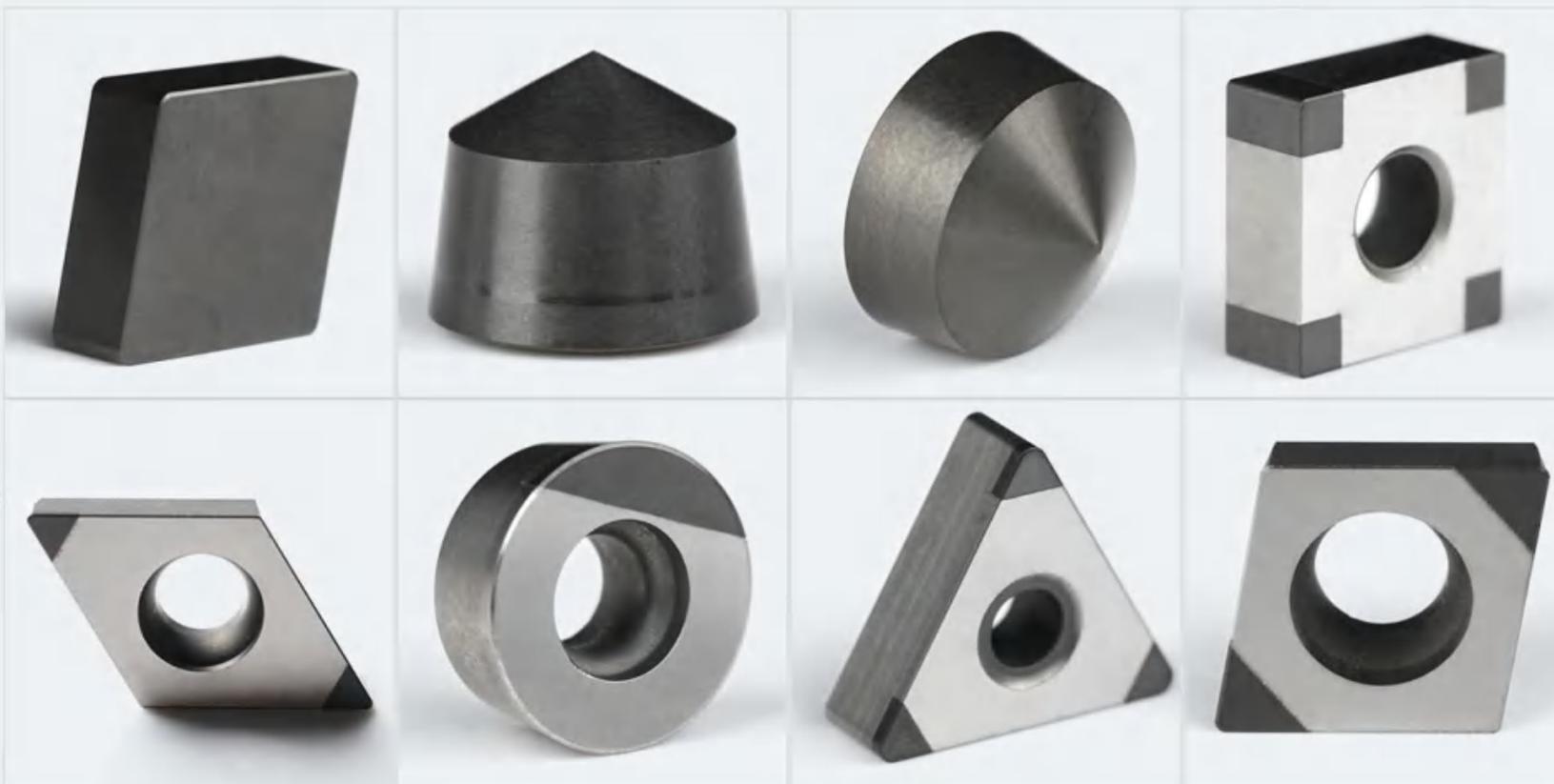
Engineered for Speed. Built for Longevity.

Designed for precision applications in demanding industries such as Automotive, Aerospace, Mold & Die, and Consumer Electronics.





- Ultimate Wear Resistance
- High-Efficiency Cutting
- Versatile Applications
- Cost-Effective Performance



PCBN Inserts

Primarily designed for machining metal parts where precision is critical, such as engine cylinder blocks, turbine blades, and precision gears.

HAG CARBIDE

Tungsten Carbide Valve Components for the Oil and Gas Industry

One-Stop Service: Providing Comprehensive Solutions for All
Tungsten Carbide Needs in the Petroleum Industry.



Tungsten Carbide Ring

Mainly used for: Equipment Sealing, Drawing Dies, Stamping Dies.



Tungsten Carbide Valve Seats

Mainly used for: Oil and Gas Drilling, Chemical, Power Generation, and Mining & Metallurgy Industries.



Tungsten Carbide Valve Cores and Seats

Mainly used for: Key valves in high-pressure, high-temperature, and highly corrosive conditions in industries such as oil and gas, chemical, and power



Tungsten Carbide Wear-Resistant Nozzles

Mainly used in: petroleum drilling, industrial cleaning,
mining metallurgy, and machinery manufacturing fields.



HAG CARBIDE

Tungsten Carbide Customized Die

Not limited by standards, but shaped by needs.

Mainly used in:

Carbide dies are key components for the forming processing of high-volume metal products such as fasteners, wire materials, and precision parts





Tungsten Carbide Drawing Die

Used for cold drawing and forming of metal pipes, bars, and wires





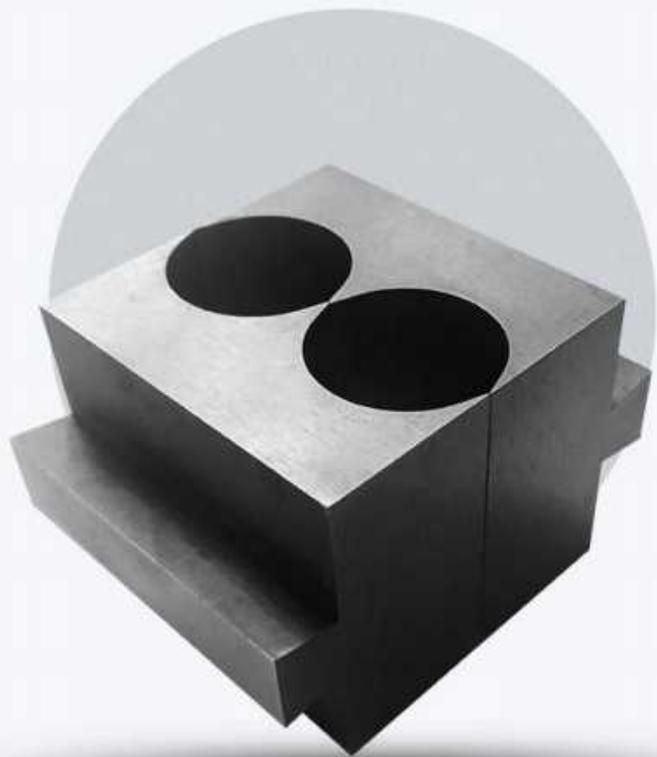
Tungsten Carbide Wire Drawing Dies

Used in precision manufacturing industries that require drawing metal materials into fine or micro-filaments



Tungsten Carbide Custom Forming Dies

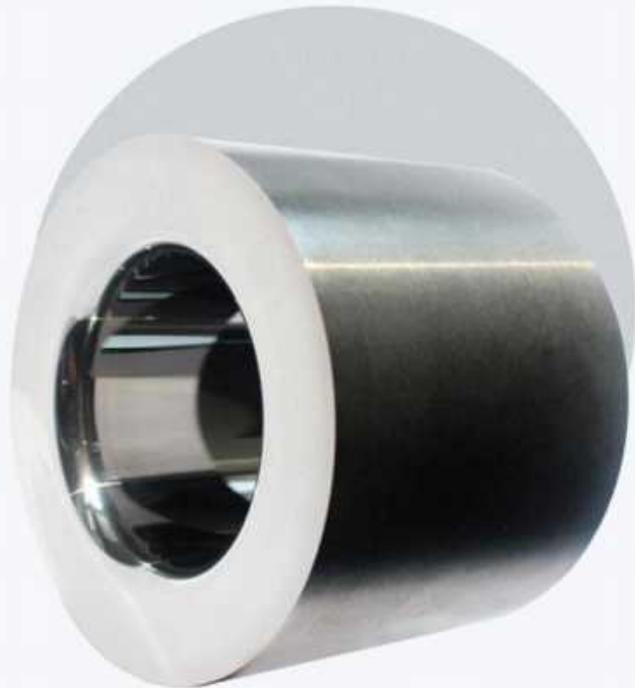
Tailored solutions for high-difficulty, high-wear forming requirements of specific products under specialized working conditions





Tungsten Carbide Stamping Dies

Used in electronics, automotive manufacturing, hardware products, aerospace, and other fields.



HAG CARBIDE

Tungsten Carbide Wear-Resistant Plates

Committed to Solving Wear Problems in Fully Automated Machinery and Equipment

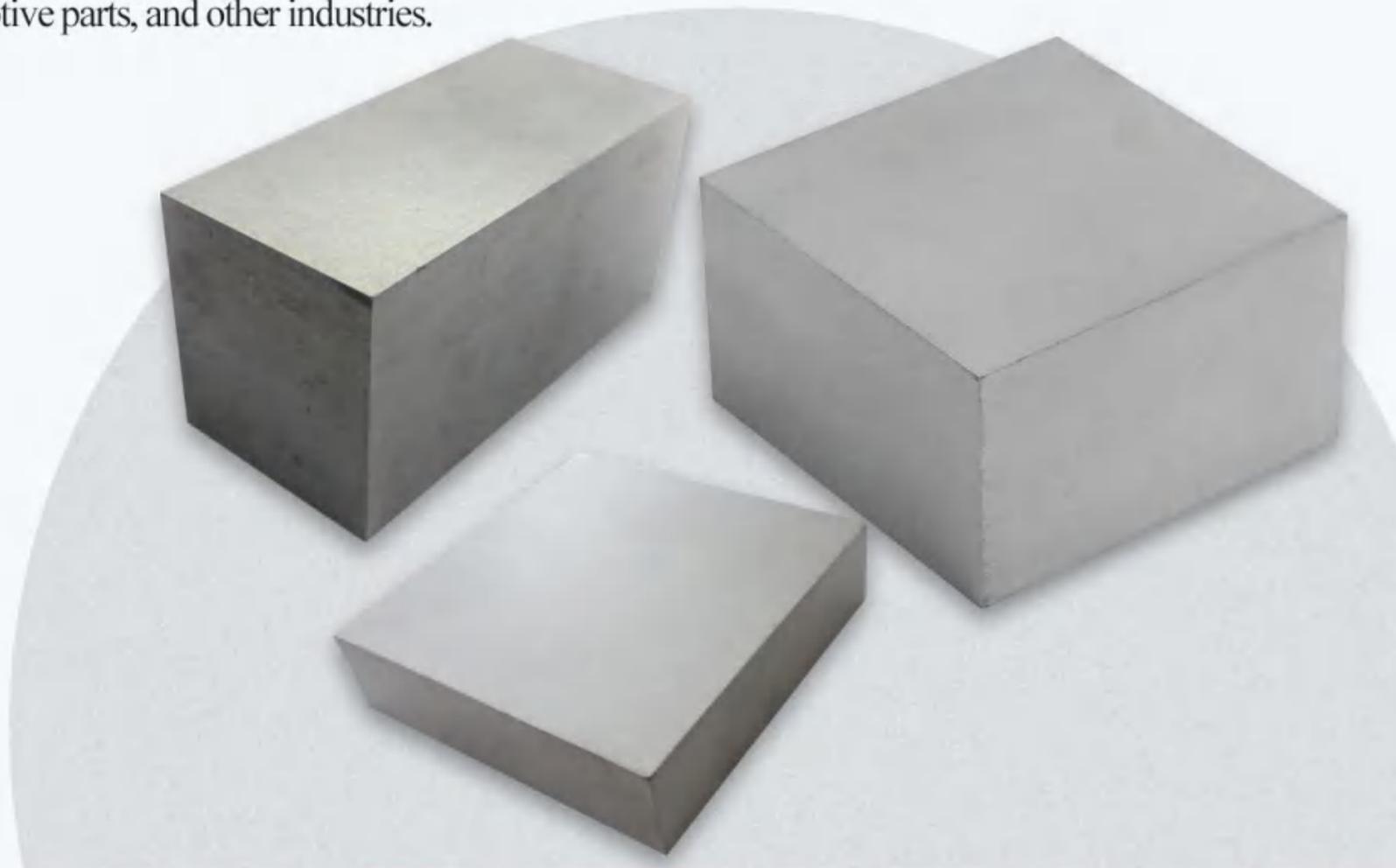
Mainly used in:
Wear-resistant components, molds and stamping parts, metal cutting,
and related applications



Carbide Die Plates

Mainly used in: Precision pressing tools for powder metallurgy, magnetic materials, electronic components, automotive parts, and other industries.

Thickness up to **150mm**

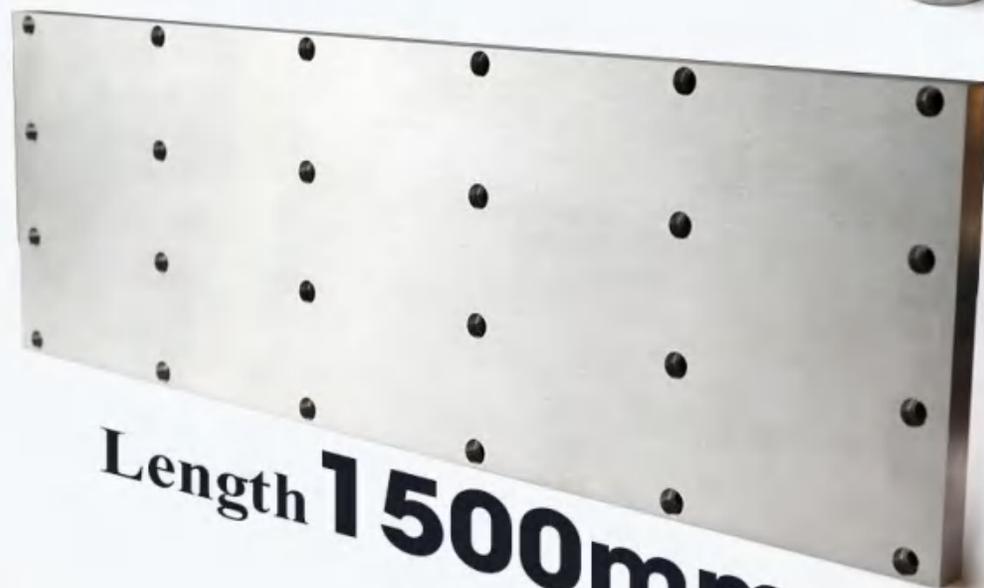


Tungsten Carbide Customized Plates

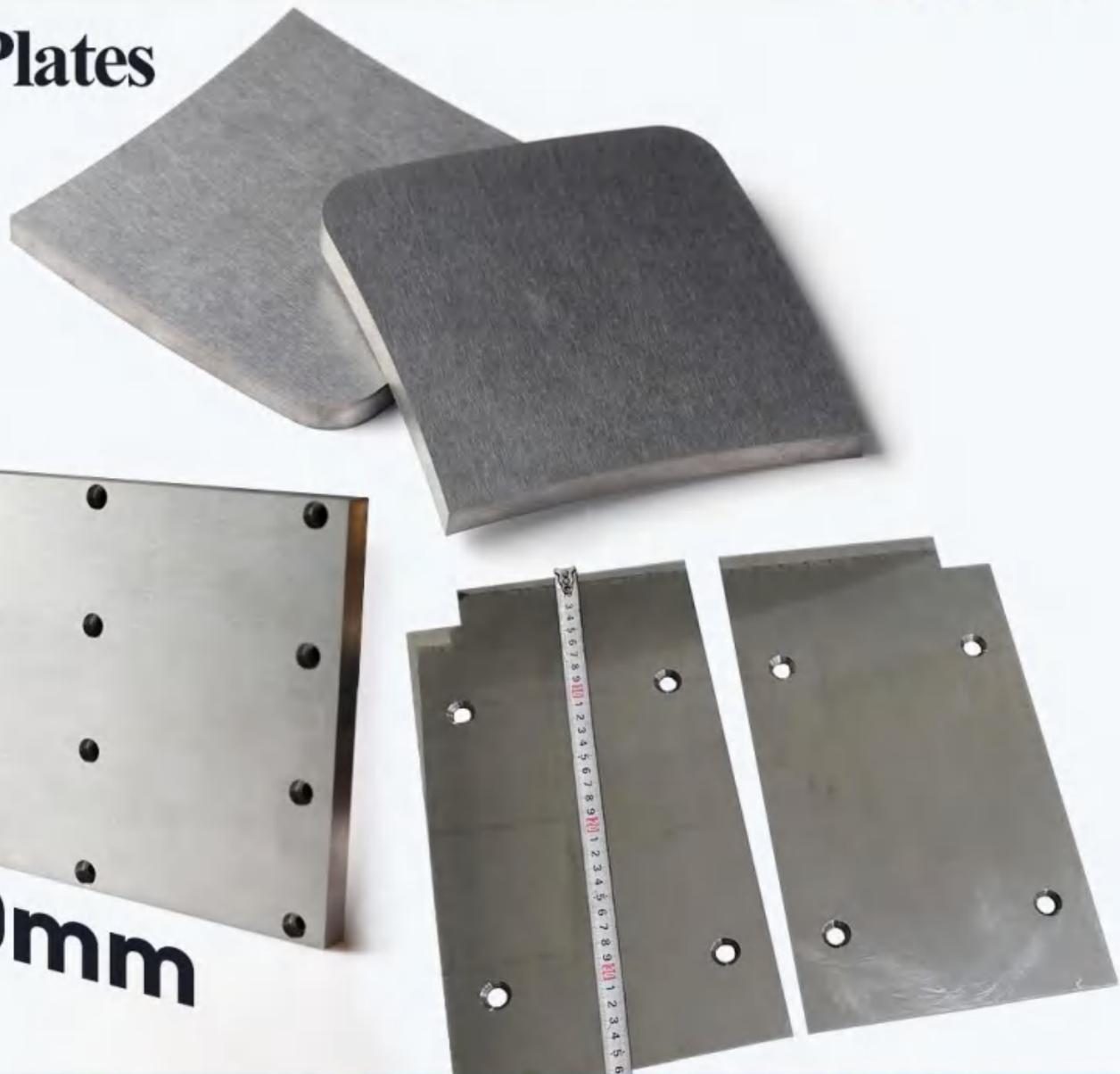
Mainly used in:

semiconductor manufacturing, new energy material processing, high-temperature industrial furnaces, and other fields requiring precision measurement and high-end molds.

- Tolerance
 $\pm 0.01\text{mm}$
- TRS
2200-3200MPA
- HRA up to
HRA92



Length **1500mm**





Tungsten Carbide Saw Tips

Mainly used in cutting industrial materials such as wood, non-ferrous metals, plates, and steel.

- Grain size
0.6-1.8um
- TRS
2200-3200MPA
- HRA up to
HRA92





Cemented Carbide Knife Sharpener Blade

Provides efficient and long-lasting grinding regeneration for the sharp edges of various metal cutting tools.

- Support **OEM/ODM**
- TRS **2200-3200MPA**
- HRA up to **HRA92**





Tungsten Carbide Discs

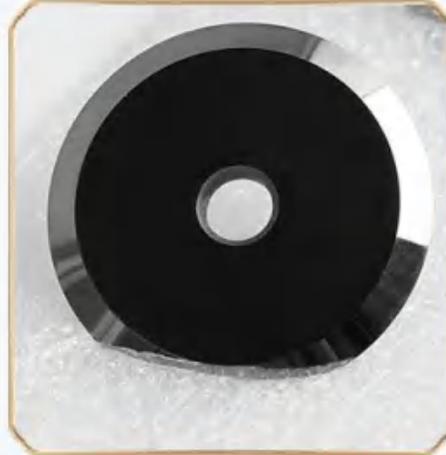
Used in mechanical seals, valves, bearings, molds, and other equipment requiring high pressure resistance and wear resistance

Diameter up to
600mm

Thickness up to
0.8mm

Surface Finishing
Ra0.1 μm

HRA up to
HRA93



HAG CARBIDE

Tungsten Carbide Wear-Resistant Rods

Wear resistance is a form of low-key frugality

Tungsten carbide rods mainly used in:
Cutting tools and wear-resistant parts for CNC machine tools,
woodworking tools, punches, and dies.





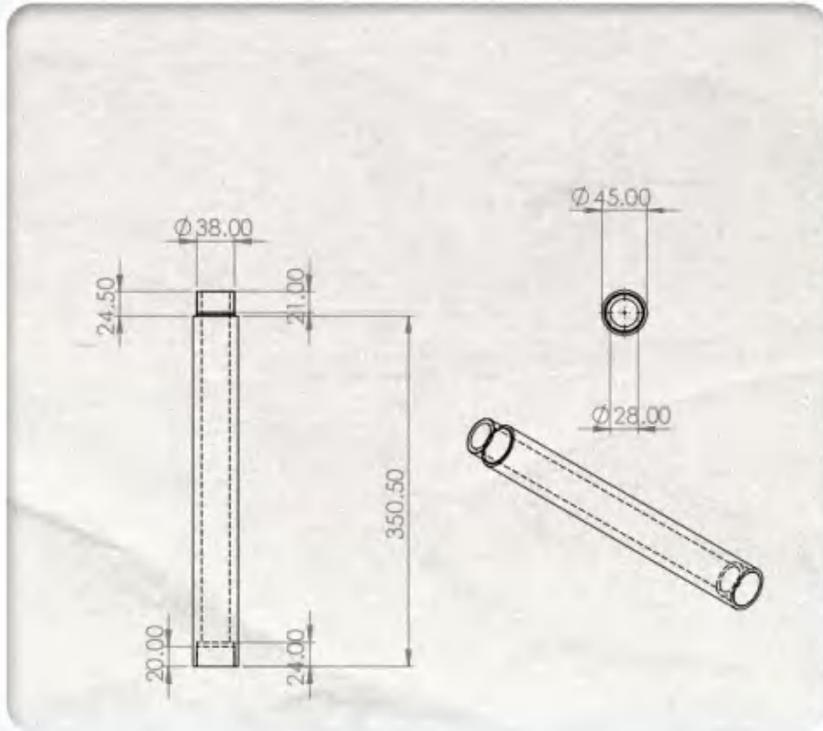
Tungsten Carbide End Mill Rods

Mainly used for solid carbide cutting tools, drills etc.



Tungsten Carbide Non-Standard Rods

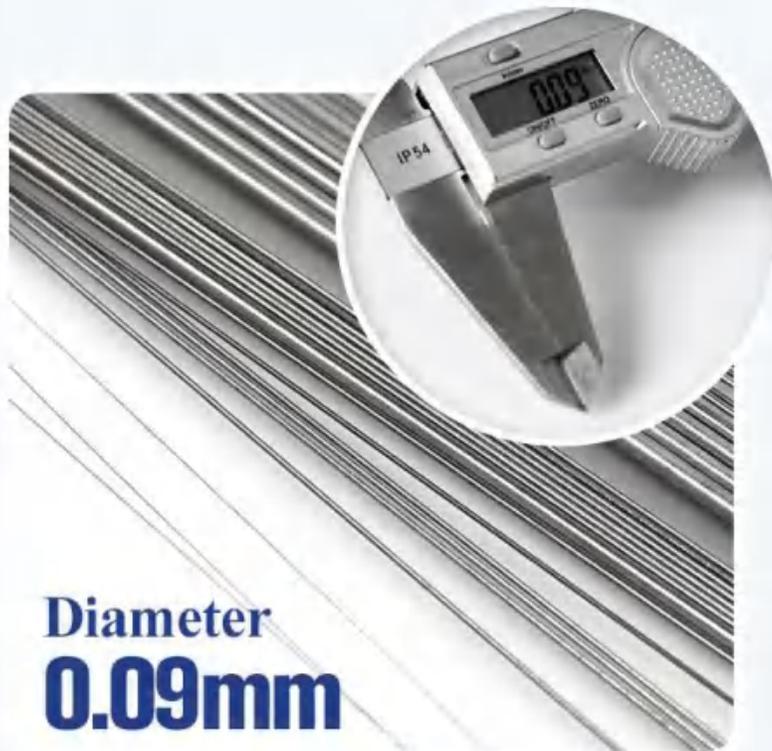
Providing freely processable hardened base components for wear-resistant applications in special structures and under extreme working conditions.





Tungsten Carbide Fine Rods

Used in industries such as 3C electronics, medical devices, and precision instruments for processing micro drills, milling cutters, probes, guide wires, and other components.



Diameter
0.09mm



Tungsten Carbide Coolant Rods

Used in fields such as guide shafts for automation equipment, spinnerets for chemical fibers, hydraulic valve spools, and special cutting tools.



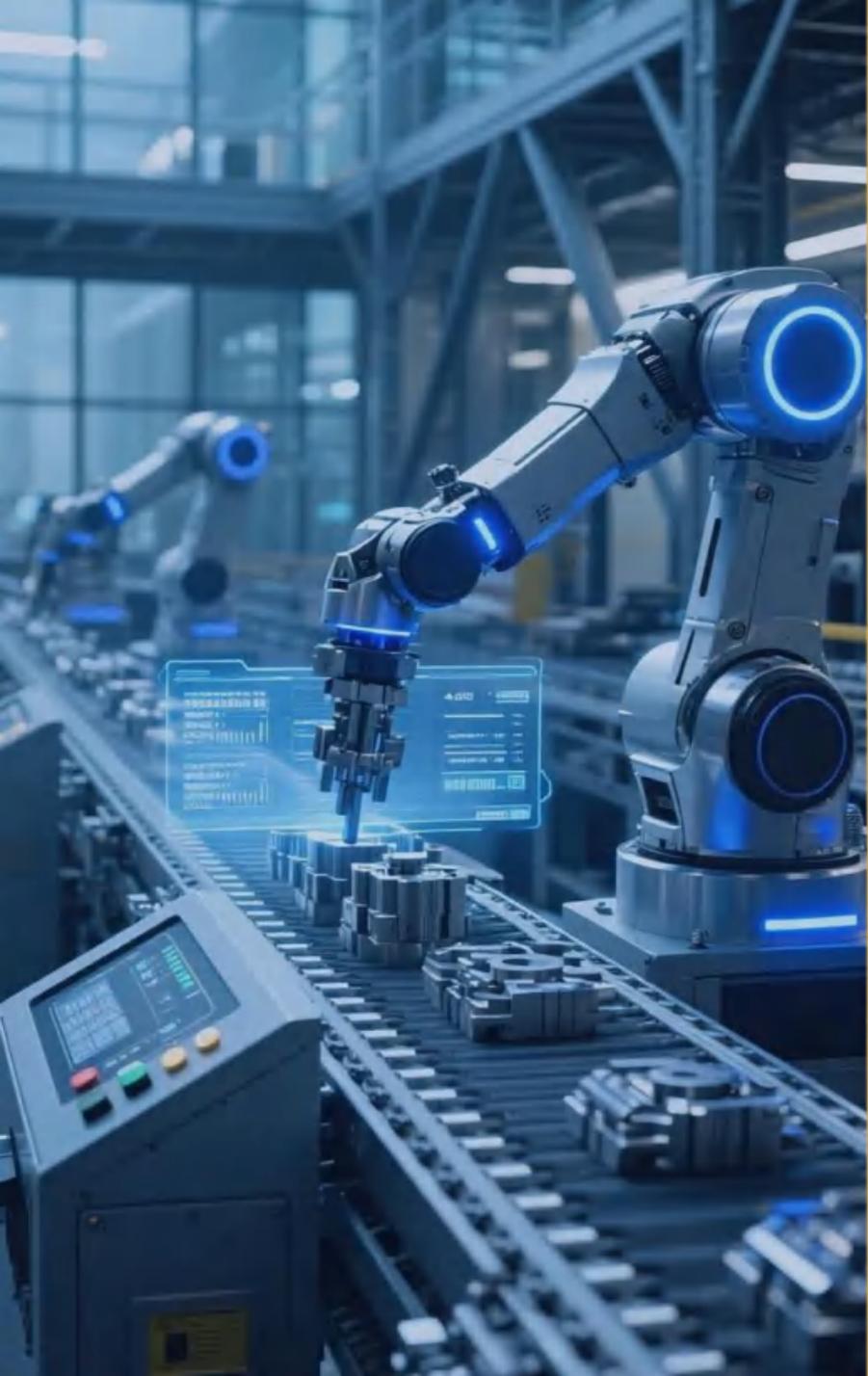
<Single hole rod>



<Double holes rod>



< Three holes rod >



HAG CARBIDE

Tungsten Carbide Strips

Grinding Solutions for Intelligent Industrial Automation.

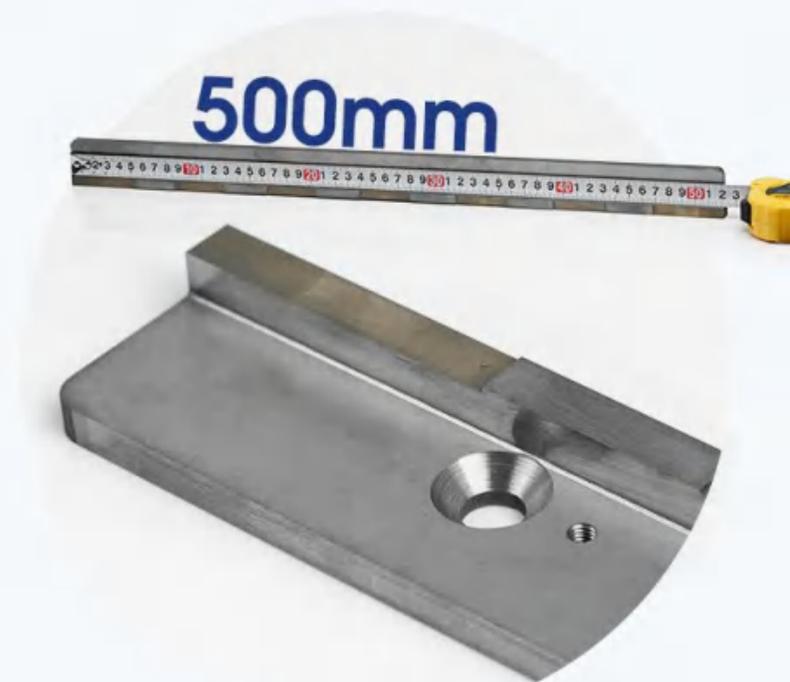
Applications: woodworking tools&cutting blades&wear-resistant guide rails& various of precision wear parts





Custom Tungsten Carbide Strips

Application: Mining machinery, construction equipment, metallurgical rolls, etc.





HAG CARBIDE

Tungsten Alloy Products

Extreme Density. Empowered Performance..

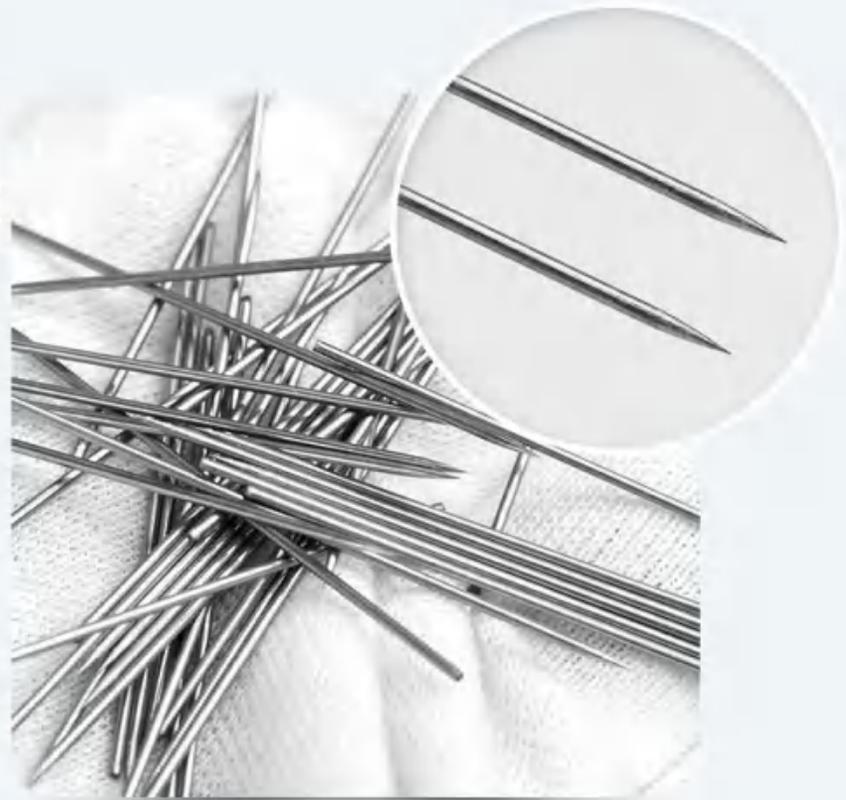
Application: Counterweights&balancing&radiation shielding&sporting goods&consumer products&industrial& mechanical Tools.





Pure Tungsten Probe

Specifically designed for use in critical sectors such as advanced manufacturing, medical equipment, and R&D.

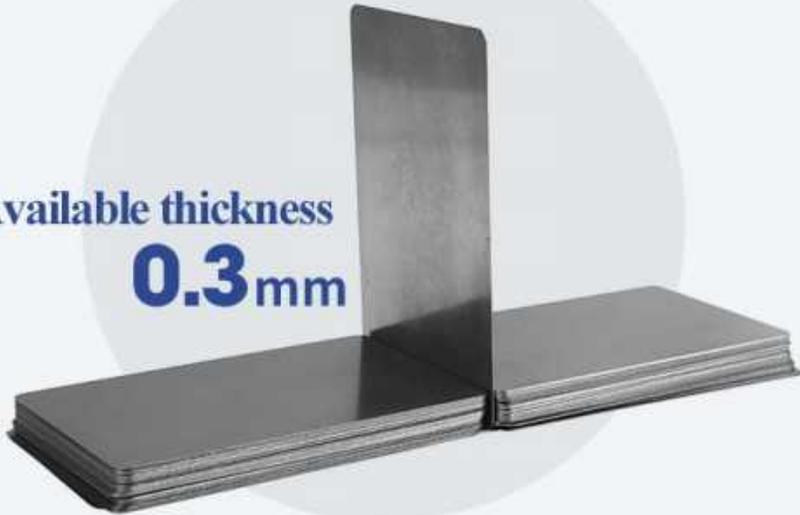




Pure Tungsten Plates

The base material for critical applications in nuclear, medical, semiconductor, and aerospace industries, and the primary blank for fabricating other tungsten products.

Available thickness
0.3mm



<Pure Tungsten Card>



<Pure Tungsten Mass>

Large and thin sizes up to
400×400×5mm



<Pure Tungsten Plates>

HAG CARBIDE

Tungsten Carbide Button

True drilling economy isn't promised. It's engineered

For all kinds of DTH bits & roller cone bits in mining, oilfield drilling, and construction engineering application.



• Our Facilities •

100⁺

Production Equipment

10⁺

QC Equipment

60⁺_T

Monthly Output

Our Facilities

- ▶ Advanced Technical Strength
- ▶ Modern Production Equipment
- ▶ Rigorous Quality Control (QC) Process
- ▶ Advanced Management System
- ▶ Production Process
- ▶ Standard Operating Procedures



HAO CARBIDE

Production Equipment

The Science of Technology,
The Art of Manufacturing.
Building Core Competence in High-End
Cemented Carbide.



01 Spray Drying Towers



02 Baking Furnaces



03 Automatic Precise Press Machines



04 HIP Sintering Furnaces

HAO CARBIDE

Machining Equipment

Expertly Machined, Precisely Shaped.
A Powerhouse of Precision Machining
for Cemented Carbide.



02

Quality Control (QC) Equipment

Precision Inspection: The Cornerstone of Quality.
Comprehensive Quality Assurance
System for Cemented Carbide.



01 Raw Material Testing



02 Hardness Testing



03 Density Testing



04 Bending Strength Testing



05 Magnetic Testing



06 Raw Material Testing



07 Flaw Detector

03

HAO CARBIDE

Production Capacity

Robust Capacity, One Step Ahead.
A High-Efficiency Production Platform for
Cemented Carbide.



04