

INCREASING PRODUCTIVITY THROUGH CARBIDE BLANKS & PREFORMS

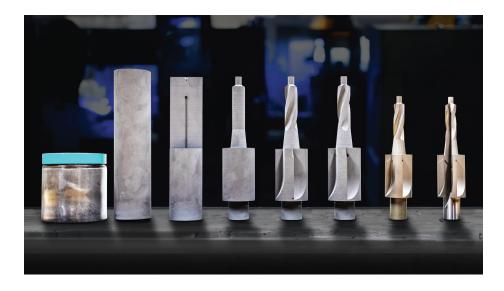


hbcarbide.com

OPTIMIZED SOLUTIONS FOR YOUR MOST CHALLENGING APPLICATIONS

H.B. Carbide is a manufacturer of tungsten carbide custom, altered standard and standard blanks and preforms. We offer a comprehensive selection of grades to deliver high-performance, reliable near-net shaped blanks that address specialized customer application challenges across diverse industries including energy, defense, metal cutting, wear and die.

Vertically integrated, H.B. Carbide handles everything from powder production through finished ground blanks with inspection and verification built into each step of the process, ensuring the highest quality product. We supply to markets around the world, producing over 3000 pieces per day and shipping 800,000 blanks annually.



SUCCESSFUL RESULTS START FROM THE GRADE

We produce a wide variety of grades in differing density, hardness and grain structure to address wide range of materials and applications.

- Super Alloys and Titanium (ISO S)
- Stainless (ISO M)
- Diverse steels (ISO P)
- Non-ferrous metals (ISO N)
- Cast Iron (ISO K)
- Composite materials



Consistency is essential when working with critical metal cutting applications, including aerospace (engine & frame) and medical, as well as high performance segments, such as die and mold, oil and gas, wind power and automotive.

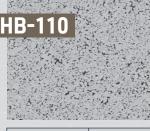
Our fully-integrated capabilities, extensive process knowledge and experienced specialists are committed to helping you in your decision making to achieve optimized solutions – from grade to customized blank specification.



Download a copy of our Grade Selection Chart



Cutting & Wear Resistance	Impact & Toughness
TRS	625,000psi
Grain Structure	Submicron
Hardness	92.0 HRA
Density	14.46 g/cm ³
WC	90%
Co	10%



10%
90%
14.5 g/cm ³
91.7 HRA
Submicron
550,000psi
Impact & Toughness



TRS	520,000psi
Grain Structure	Submicron
Hardness	93 HRA
Density	14.9 g/cm ³
wc	94%
Co	6%



Со	12%
WC	88%
Density	14.11 g/cm ³
Hardness	92.5 HRA
Grain Structure	Ultrafine
TRS	640,000psi
Cutting & Wear Resistance	Impact & Toughness

SPEED, PERFORMANCE, RELIABILITY, CAPABILITY

SHAPING TANGIBLE SOLUTIONS

H.B. Carbide preforms are available in just about any shape you require with minimal grind stock. Blanks are available with a variety of features, enabling us to deliver tangible solutions that provide manufacturing process efficiencies, reduced lead times, and overall productivity improvements.

- Custom, Standard, and Altered Design Blanks
- Drill & Reamer Blanks
- Gundrill Blanks

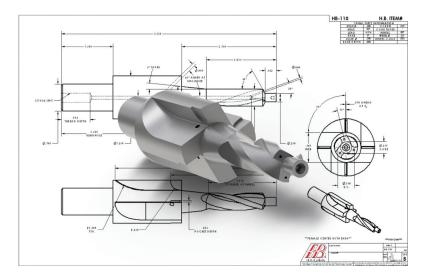
OUR CAPABILITIES

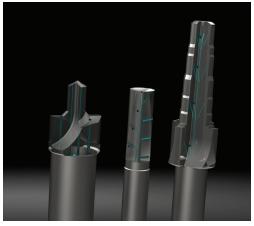
- Straight and Spiral Flutes
- Vast Coolant Hole Configurations
- Stepped Diameters and Flats
- Chamfers
- Keyways
- PCD Pockets
- Saw Blanks
- Male and Female Centers

BETWEEN CENTERS AND CENTERLESS GRINDING

As a value-added service to our customers, H.B. Carbide can offer centerless and between center OD grinding on pre-formed blanks.

- h5 and h6 diameter tolerances
- Multi-diameter grinding
- Lapped centers





Advanced Blank Feature Capabilities



Altered Standard Blanks



Between Center Grinding

DISCOVER WHAT THE **H.B. CARBIDE ADVANTAGE** CAN DO FOR YOU

- Responsible corporate citizen social, cultural and environmental responsibilities
- **Reliable partner** for global supply & support
- Sustainability Environmentally focused, including recycling of carbide scraps
- **Focus on customer experience –** Service Supply & Technical Support
- Material innovation Optimized application specific grade selection
- Advanced production controls and techniques ensuring quality and consistency





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