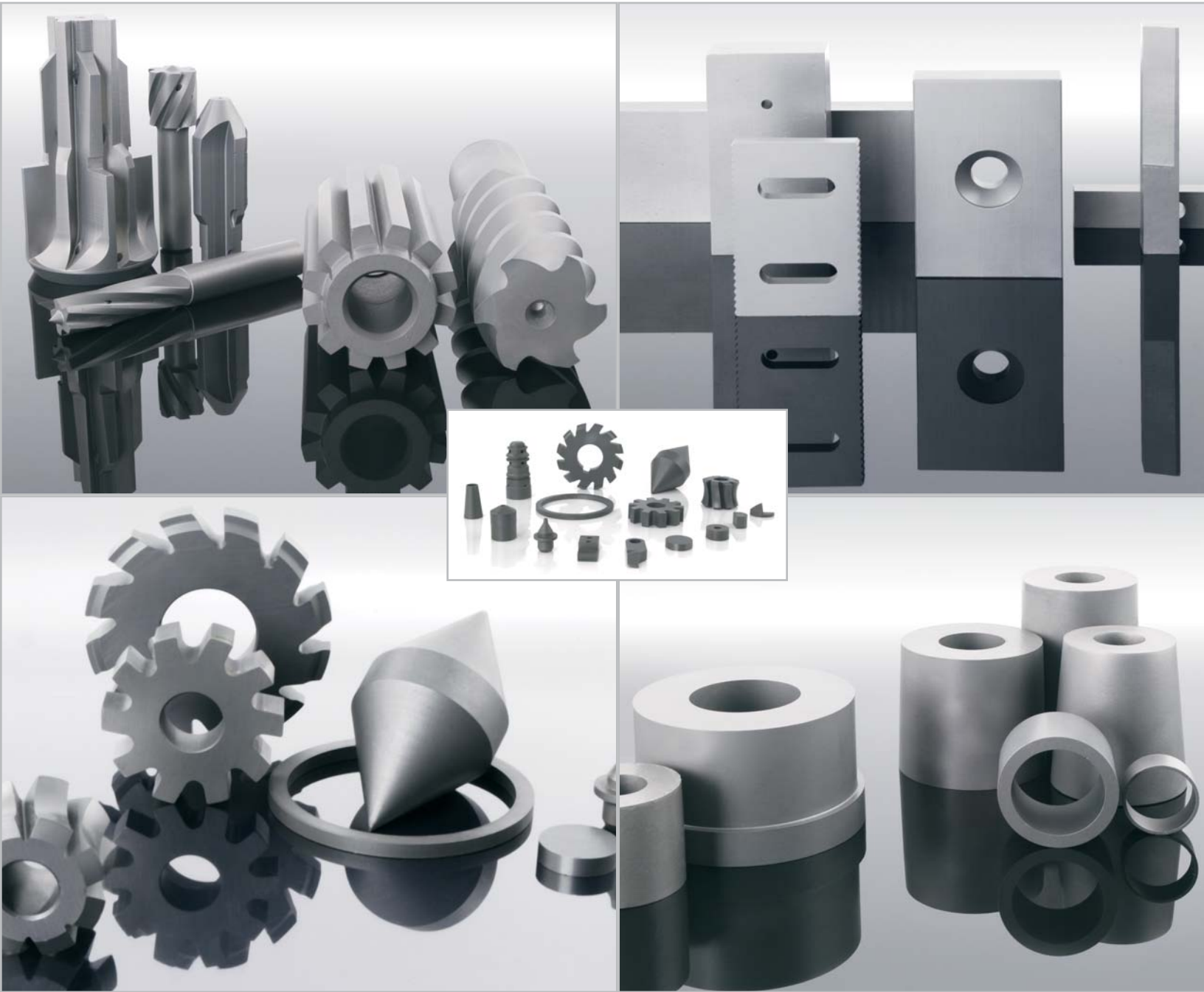


CARBIDE PREFORMS



Tungsten carbide preforms for flat blanks, round rod, cold head dies and bushings, special forms for wear parts



H. B. Carbide Company, established in 1983 and located in Lweiston, MI, is owned and operated by Star Cutter Company. H.B. Carbide manufactures tungsten carbide preforms using extrusion, isopressing, and preforming and sintering operations.



FLUTED PREFORMS

Straight and spiral flutes, straight holes, crossholes, steps, centers, flats, keyways, chamfers.



SPECIAL TOOLING

Wear parts, centers, milling cutters, custom tool blanks to customer print.



H.B.Carbide Company is recognized as a leading source of high precision and high quality tungsten carbide preforms for cutting tools, dies, and wear parts used in a variety of specialized applications throughout the world.

H.B Carbide uses only the highest quality raw materials and employs state-of-the-art computer controlled vacuum furnaces and vacuum Sinter-Hipping furnaces for complete control of sintering conditions.



FLAT BLANKS

Wire EDM blanks, saw blade blanks, form tool blanks, washers. HB Carbide EDM blanks are guaranteed against cracking.



DIES AND BUSHINGS

Wear parts, seal rings, wire drawing dies, cold heading dies, and bushings..



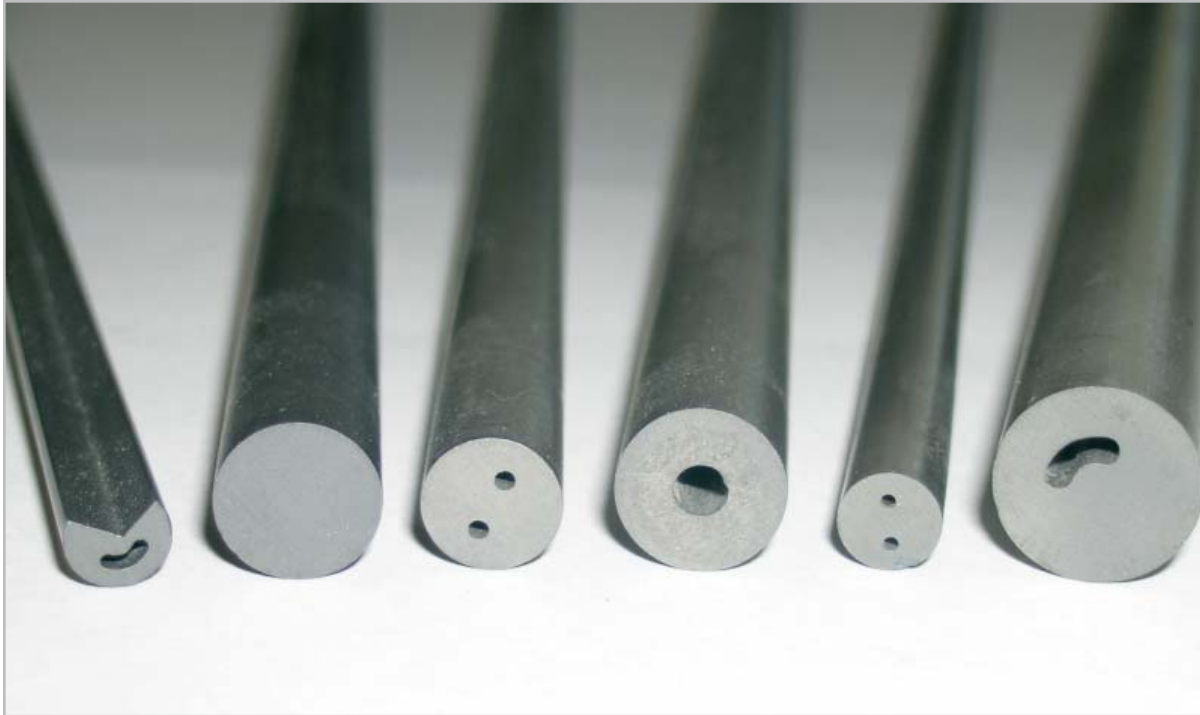


Ground and unground rods, cut to length or full sticks. Round rods up to 36 inches long.

H.B.Carbide is dedicated to quality, committed to technology, and focused on personal customer service. Quotation response is generally within 4 working hours of request. Orders are typically shipped within 5-8 working days. H.B.Carbide is able to expedite delivery. Please call for assistance. Technical assistance is readily available for grade selection and preform design.



SPECIAL EXTRUDED SHAPES AND GUNDRILL BLANKS



Round, square, rectangular rod, with or without holes, varied shapes with a constant cross section, can be cut to specified lengths, with or without centers. Gundrill blanks can be full-length sticks, cut to length heads, and can have preformed presharpener angles included. Round or other shaped coolant holes including single hole, double hole or kidney holes can be manufactured.



SPECIAL TOOLING



Wear parts, punches, knives, rings, clamps, nozzles, centers, washers, detailed blanks to customer print.





CEMENTED CARBIDES PHYSICAL PROPERTIES

HB Carbide Grade	Applications	US industry designation	ISO code	Average grain size (micron)	WC (%)	HB Carbide Grade	CO(%)	Hardness Rockwell/A	Sinter HIP/ Transverse rupture strength (PSI/min)
HB-2	General purpose Semi-finishing	C-2	K20-K30	1.5	94.0	HB-2	6.0	92.2	440,000
HB-3	Precision-finishing Sub-micron grade	C-3	K05-K15	0.8	94.0	HB-3	6.0	93.0	460,000
HB-110	General purpose Semi-finishing Sub micron grade	C-2 C-10	K30-K40	0.8	90.0	HB-110	10.0	91.7	500,000
HB-115	Low impact roughing Sub micron grade	C-12	K40	0.8	85.0	HB-115	15.0	90.0	510,000
HB-315	Low impact Coarse grain	C-13		2.5	85.0	HB-315	15.0	88.4	460,000
HB-320	Medium impact Coarse grain	C-14		2.5	80.0	HB-320	20.0	86.4	450,000
HB-325	High impact Course grain	C-14		2.5	75.0	HB-325	25.0	85.1	480,000
HB-411	Impact punches	C-12		0.8-30	88.5	HB-411	11.5	90.0	530,000



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Star SU LLC, Hoffman Estates/Illinois



- Tools Service Center
- Tools Manufacturing Site
- Tools Service Center – Planned

