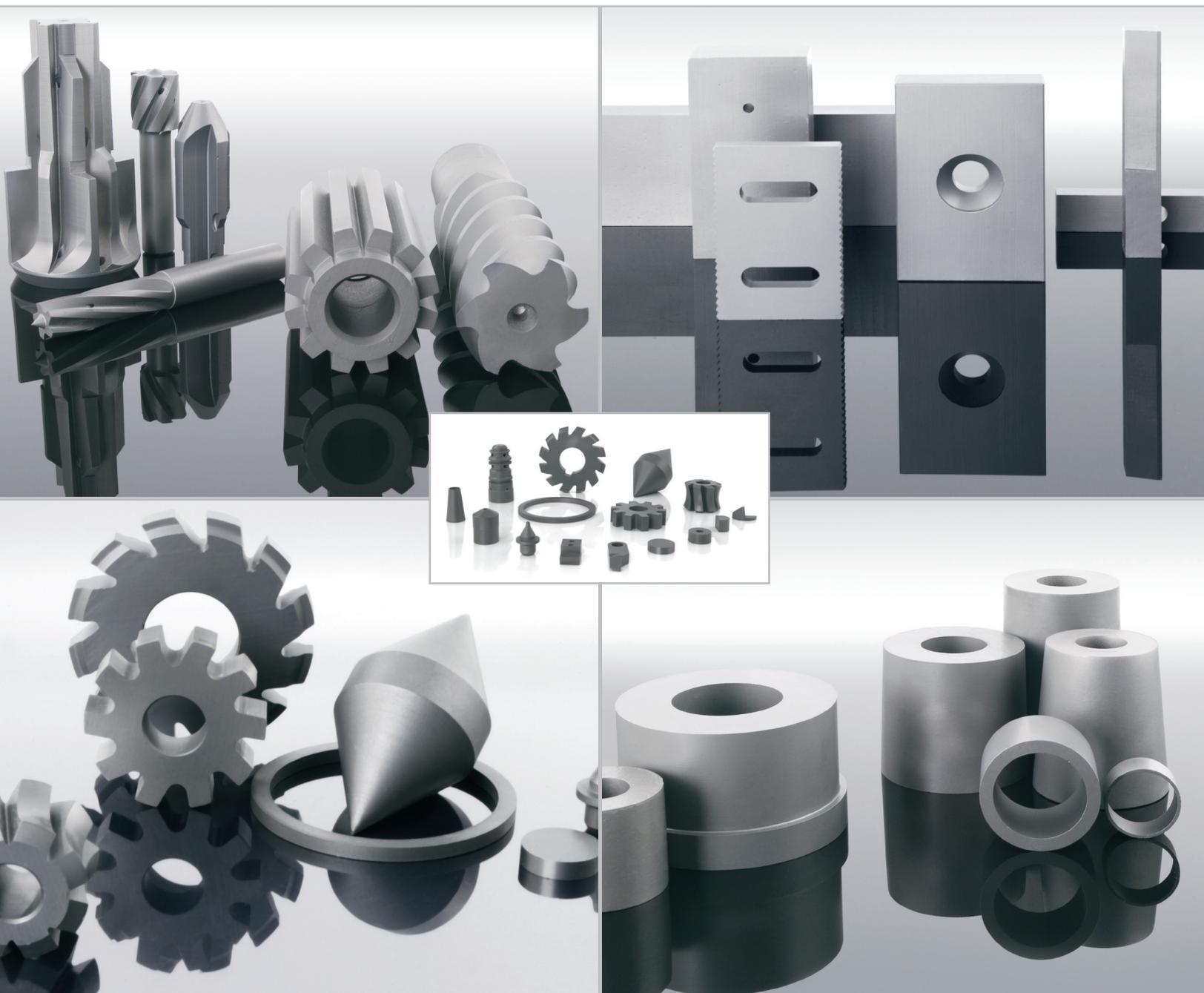


StarSU CARBIDE PREFORMS



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 Lewiston, 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.



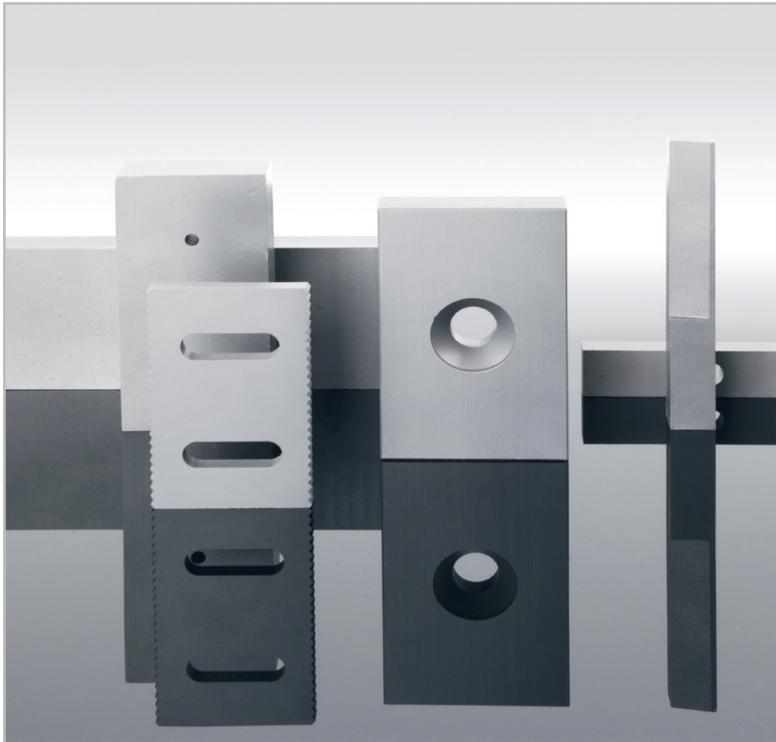
SPECIAL TOOLING

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



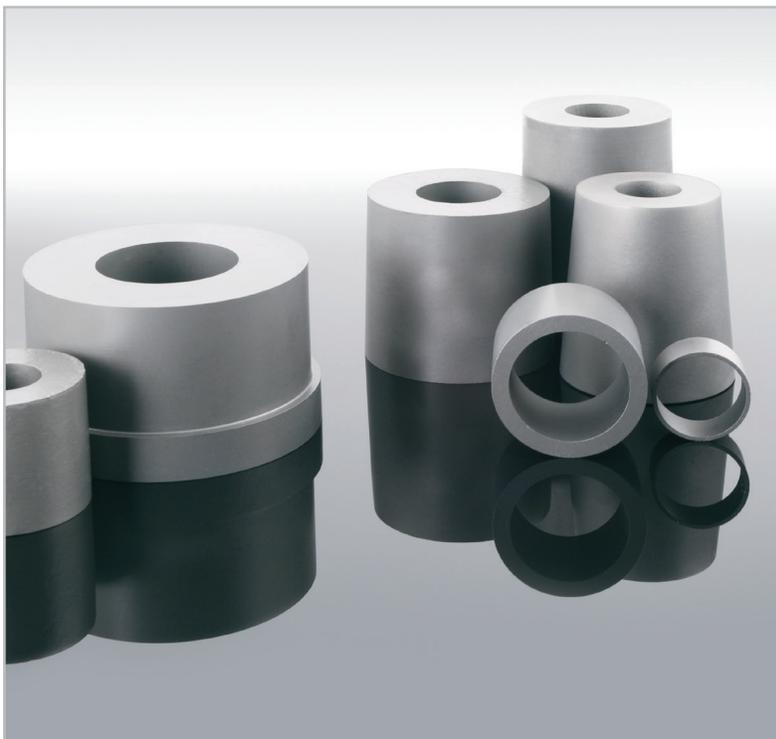
H.B.Carbide Company is recognized as a leading source of high precision and high quality tungsten carbide preforms for cutting tools, dies, and wear parts used in a variety of specialized applications throughout the world.

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.



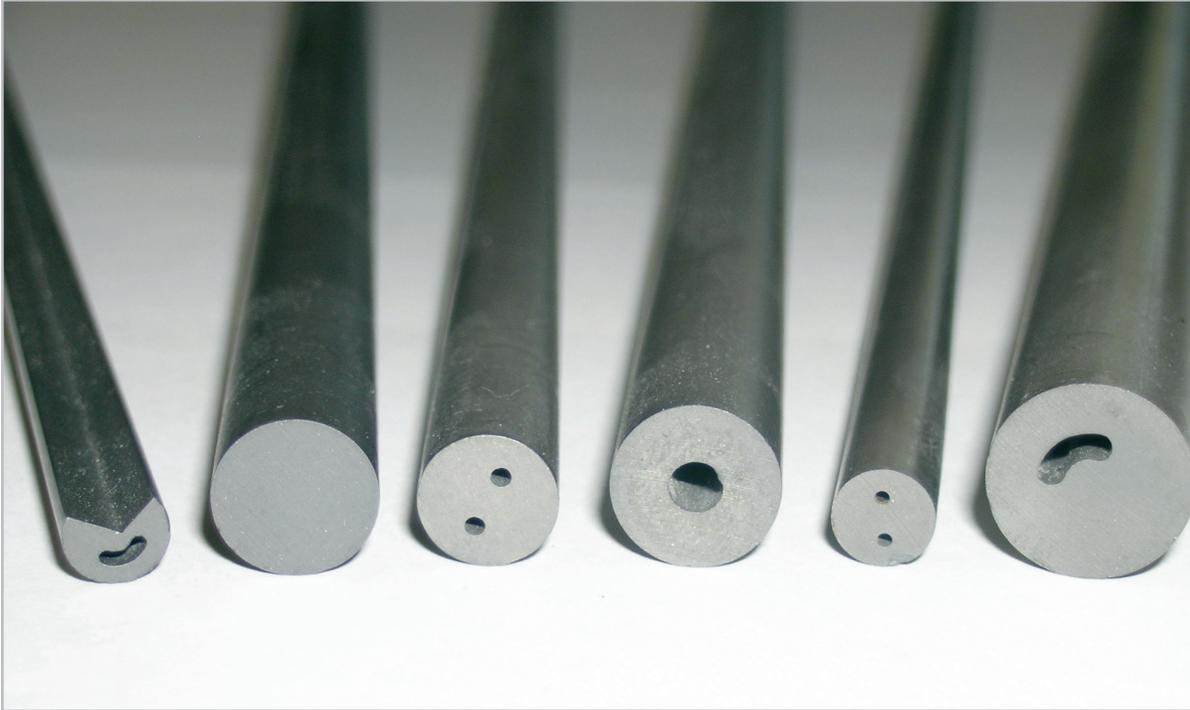


Ground and unground rods, cut to length or full sticks. Round rods up to 36 inches long.

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

CARBIDE PREFORMS



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



CEMENTED CARBIDE PROPERTIES

PHYSICAL PROPERTIES									
HB Carbide Grade	Applications	US Industry Designation	ISO Code	Average grain size (micron)	Density g/cc	WC (%)	CO (%)	Hardness Rockwell A	Sinter Hip TRS (psi)
HB-2	Excellent wear properties, abrasion resistant grade, medium grain size, general purpose grade for all cutting tools, drills, endmills, and reamers, for finishing and semi-finishing, and wear parts with little impact, EDM blanks, seal rings, knives	C-2	K20 - K30	1.5	14.9	94	6	92.2	530,000
HB-3	Extremely hard material, highly abrasion resistant, micro grain grade, for finish machining cutting tools, drills, endmills, and reamers, and wear parts, with very little or no shock, EDM Blanks, wire guides, sand blast nozzles	C-3	K05 - K10	0.8	14.9	94	6	93.0	520,000
HB-110	Excellent wear properties, micro grain grade, general purpose cutting tool grade for semi-finishing and finishing, drills, endmills, reamers, stamping dies, punches, knives and all types of cutting tools, will withstand slight shock, EDM blanks	C-2 C-10	K30 - K40	0.8	14.5	90	10	91.7	550,000
HB-115	High wear, low to medium impact, micro grain grade, for cutting tools, dies, knives, punches, roughing tools, will withstand slight shock, EDM blanks, crush rolls, form rolls, coining dies	C-12	K40	0.8	14.0	85	15	90.0	610,000
HB-512	Extra fine grain carbide grade, all types finish cutting tools, drills, endmills, and reamers	C-1 C-2	K40 - K50	0.6	14.3	88	12	92.5	640,000
HB-312	Low impact resistance, coarse grain size grade, knives, punches, will withstand slight shock	C-12		4.0	14.3	88	12	88.7	445,000
HB-315	Low impact, coarse grain grade, rough core nibs for header dies, swaging dies, and forming applications	C-13		4.0	14.0	85	15	87.4	470,000
HB-320	Medium impact, coarse grain grade, rough core nibs for header dies, swaging dies, draw dies, crushing hammers, forming applications	C-14		4.0	13.5	80	20	85.4	455,000
HB-325	Highest impact, coarse grain grade, rough core nibs for header dies, swaging dies, draw dies, forming applications	C-14		4.0	13.1	75	25	83.3	430,000
HB-411	Multi grain size grade, impact punches, wear parts, plastic injection molding pins	C-12		0.8 to 4.0	14.4	88.5	11.5	90.0	530,000





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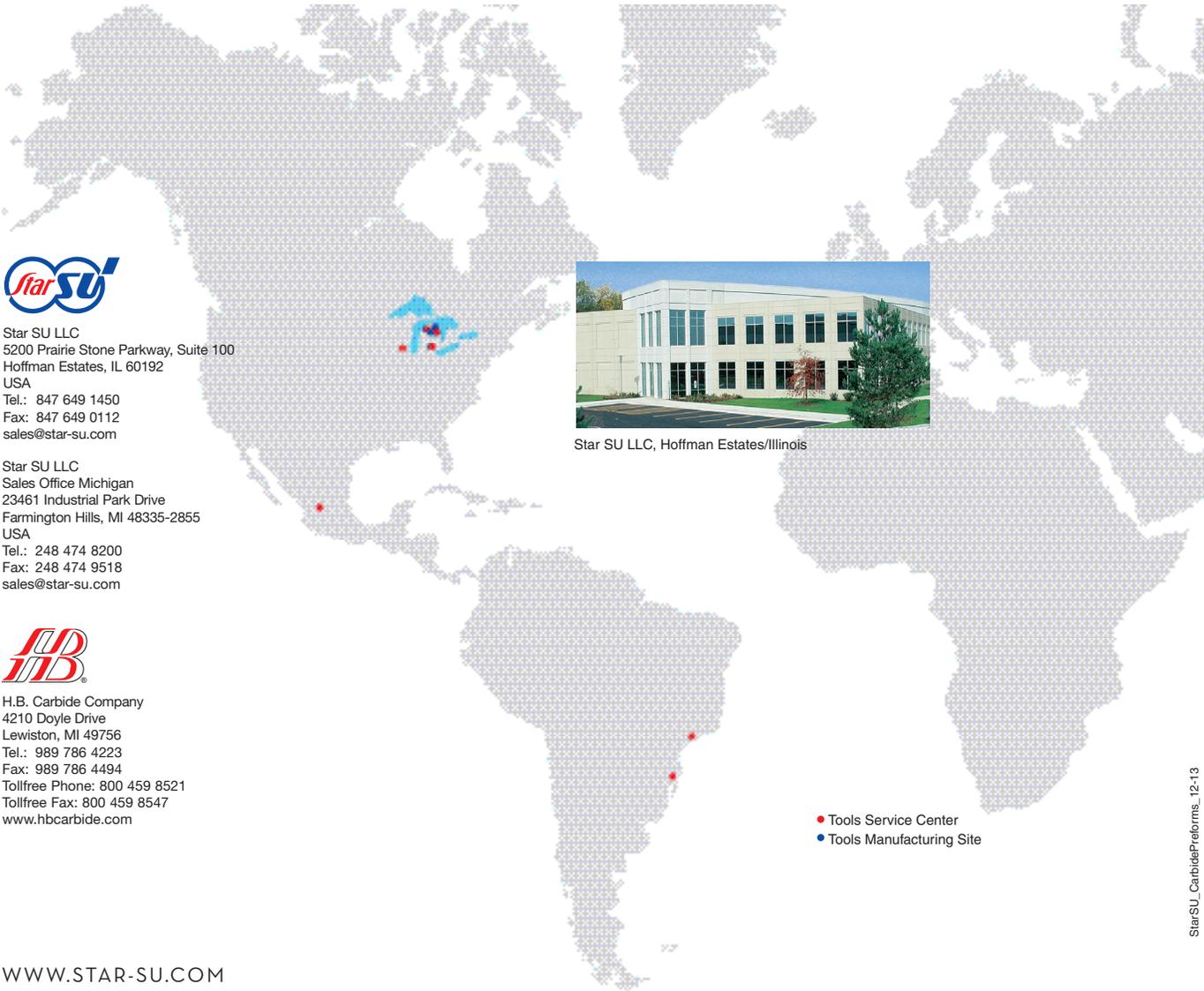
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Star SU LLC, Hoffman Estates/Illinois



- Tools Service Center
- Tools Manufacturing Site

