

CARBIDE

Greenleaf offers a comprehensive line of carbide inserts in grades ranging from sub-micron C-1 through C-8 classifications. An industry pioneer in coated carbide, Greenleaf offers a variety of uncoated, CVD-coated and PVD-coated grades. Carbide inserts are available in ANSI standard geometries with multi-purpose chip-breakers for heavy roughing through finishing.

COATED

GA-5036 A high-performance CVD-coated grade for milling steels at high speed. GA-5036 should be used when milling forged and cast steels and selected ductile irons. GA-5036 has a unique combination of toughness and heat resistance making it suitable for heavy- and light-duty milling at high cutting speeds.

GA-5040 A tough CVD-coated grade for low-speed, high-feed milling of carbon and alloy steels, and cast irons. Other applications for GA-5040 include milling and interrupted turning of stainless steel and selected high-temp alloys. This multi-layer CVD-coated grade excels in severe machining applications requiring resistance to mechanical shock.

G-910 PVD-coated grade for milling high-temp alloys, stainless steel, and low carbon steels. G-910 is a medium-speed grade and should be applied at moderate to high feed rates.

G-915 Multi-layer PVD-coated grade, excellent for milling and turning high-temp alloys, stainless steel, and low-carbon steels. The multi-layer PVD coating adds heat and abrasion resistance to the tough, shock-resistant substrate. G-915 should be run at moderate speeds and moderate to high feeds in milling and interrupted turning applications.

G-935 Multi-layer PVD-coated grade for steel milling and turning applications requiring additional resistance to mechanical and thermal shock. The multi-layered PVD coating increases the speed capability and wear resistance in tough milling and interrupted turning applications.

UNCOATED

G-53 Excellent general-purpose milling grade for steel and steel alloys at moderate speeds and feeds. Good combination of toughness and wear resistance for milling, or as an all-around grade for mixed production applications. G-53 is not recommended for continuous turning.

G-70 Finishing of steel and steel castings under favorable conditions. G-70 is an excellent finish-milling grade. Apply at high speeds and low to moderate feeds. Offers superior wear resistance when dry machining alloy steels.

CERAMIC

Greenleaf is the industry leader in the development and manufacture of ceramic and coated ceramic inserts in ANSI standard and special geometries. Some of the most prominent include:

WG-300®

Patented, whisker-reinforced ceramic with excellent wear and shock resistance at high surface speeds. WG-300 is very effective at machining nickel- and cobalt-based super alloys, and other hard materials at metal removal rates up to 10 times higher than carbide.

HSN-100

The latest in engineered silicon-nitride cutting tools has superior toughness and high cutting-speed capability. For the turning and milling of all classes of cast iron. HSN-100 is a good choice for ductile, malleable, nodular, and other difficult-to-machine irons.

Greenleaf Sales

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