

NEW PRODUCTS FROM SUMITOMO



AC820P/AC830P Grades

The ultra hard and ultra smooth Super FF coating of these next generation steel turning grades improves both heat and wear resistance for increased speeds and feeds. Together the AC820P and the AC830P machine applications ranging from finishing to general purpose to heavy roughing in steel and stainless steel.



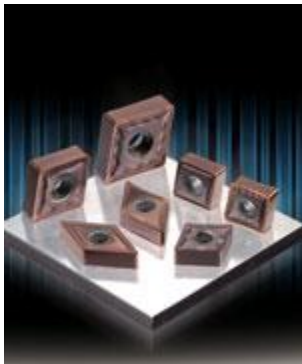
AC410K Grade

Featuring Super FF Alumina and Super FF TiCN coatings, the AC410K grade offers excellent wear resistance in continuous to light interrupted machining of gray and ductile cast iron. The AC410K's tool life is at least doubled that of conventional cast iron grades, and it is capable of covering medium to high-speed machining applications. The AC410K grade is available in positive and negative insert styles.



SumiEdge Mill

The SumiEdge Mill is a tangential-style cutter that is designed to provide excellent performance in cast iron milling applications. The LNMX inserts can be used in both right and left hand cutters, offering full use of the 8 cutter edges. The ACK200 and ACK300 grades provide stable cutting performance and longer tool life. The SumiEdge Mill cutters are available in 3", 4", 5", and 6" diameters.



AC510U/AC520U Grades

With up to 1,000 layers of TiAlN and AlCrN coatings alternately stacked, higher speed capabilities and greater wear resistance can be achieved with the new AC510U/AC520U. The AC510U grade is capable of finish machining of exotic materials, while the AC520U grade is superior in roughing and medium cut machining applications. The grades are available in both molded and ground insert types.



WEX Indexable Insert Endmills and Shoulder Milling Cutters

The wave-shaped cutting edges of our WEX generate lower cutting forces, while the high shear cutting action ensures smooth and accurate performance - even during deep slotting or milling using low rigidity machines. Consisting of heat- and wear-resistant Nano technology coated grades, the WEX's high strength cutting edges substantially enhance feed rates, machining accuracy and surface finish. WEX cutter bodies feature a highly durable surface treatment and an improved method of insert clamping into the pocket.



YB100 Coated Carbide Grades

Featuring a unique substrate, edge honing and fine TiCN CVD coating, the YB100 coated carbide grade is the most versatile of its kind in the metal cutting industry. The YB100 can go from finish turning steels and stainless steels to roughing cast iron.



Metal Slash Mills

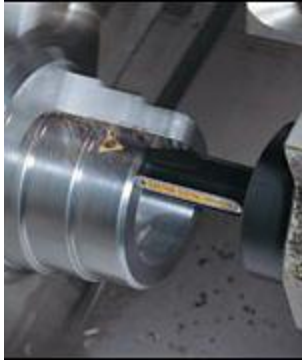
The unique design of our Metal Slash Mill directs cutting forces into the machine spindle to achieve feed rates of up to 0.078" IPT, even in low rigidity conditions. A four-corner insert (screw on assembly) design yields low tooling costs per part. U.S. stock bodies are available in 2.000" - 4.000" diameters. Available with:

- ACP100 CVD coated grade for high-speed and wet cutting of steels and stainless steels
- ACP200 PVD coated grade for general purpose milling of steels and stainless steels
- ACP300 PVD coated grade for interrupted machining of steels and stainless steels
- ACK200 CVD coated grade for general purpose milling of gray and ductile cast irons
- ACK300 PVD coated grade for general to interrupted machining of gray and ductile cast irons



SDP Spider Mills

Our new SDP Spider Mill is designed for high productivity face milling of gray and ductile cast irons. It is a 90 degree double negative milling cutter with positive cutting insert geometry. Each insert consists of eight cutting edges. A unique positive chipbreaker insert provides less cutting force, more productivity and a longer tool life. Available with ACK100 CVD coated grade for high-speed milling applications and ACK200 CVD coated grade for general purpose milling. Both grades are offered for use in 3", 4", 5" and 6" cutter bodies.



X-Bar Boring Bars

Designed for deep-hole boring, our revolutionary anti-vibration X-Bar features a special dampening mechanism that eliminates chatter and results in extremely fine finishes and extra long tool life. Ideal for extended overhangs, the X-Bar provides smooth finishes at up to 6X the length to diameter. The X-Bar is priced to compete with a solid carbide bar and offers performance superior to a steel bar. It is ideal for step boring, bottom facing and copying. All X-Bars are coolant thru and available with CCMT, TCMT and TPMT style inserts in a wide variety of chipbreakers - including our new ELU and ESU. Shank sizes range from 0.500 - 1.000" diameter.



SMD Replaceable Carbide Tip Drills

Our new SMD Replaceable Carbide Tip Drill is the most versatile, easy to inventory and cost-effective drilling system on the market. The hardened steel drill body of the SMD accepts multiple drill size heads, for reduced costs and inventory. The carbide replaceable drill head can be reground. For increased tool life, SMD wear-resistant drill heads consist of extremely tough carbide and our ZX coating. The ZX coating is 2000 layers tough for long wear resistance. Ground serrations on the back of the drill head allow for precise, two-screw assembly and exceptional hole accuracy. The SMD is available in metric and inch diameters ranging from 0.4688" - 1.2008" with 3X and 5X diameter coolant-thru drill bodies. Other tips specifically for cast iron, stainless steel and exotic materials are also available upon request.



T-Rex Inserts

Our new 55 degree SumiTurn T-REX triangle insert is a cost-effective replacement for the 55 degree DNMG. The T-REX features six cutting edges, compared to the four edges of a conventional DNMG. These contoured edges result in rigid clamping within the turning system, and provide for accurate insert indexing. Choose from three grades: AC700G for finishing steels and stainless steels, and for roughing cast irons; AC2000 for general purpose machining of steels, stainless steels, and cast irons; and AC3000 for heavy roughing and interrupted machining of steels and stainless steels. Maximum cutting depth is 2.5 mm (0.100"). T-REX inserts are exclusively compatible with T-REX turning toolholders and boring bars.



AC610M/AC630M Grades for Stainless Steel & Steel

- High speed, high efficiency cutting with a high hardness substrate
- Good plastic deformation and wear resistance
- Polished insert face and cutting edges
- New thin CVD coating layer and sharp edges excel in difficult to machine materials

AC630M Features & Benefits

- General cutting grade with a high strength substrate
- Good peeling and notch wear resistance
- Polished insert face and cutting edges
- New thin CVD coating layer and sharp edges excel in difficult to machine materials



T2000Z Grade

Our T2000Z grade is the perfect solution for applications where cermet is too brittle and carbide wears rapidly. Ideal for high speed finishing in steel applications, it features very high heat resistant properties and superior toughness. The T2000Z is coated with Sumitomo's unique ZX coating technology for an ultra smooth cutting edge that provides superior surface finishes. Other features of ZX Technology include high hardness, excellent oxidation resistance and excellent peeling resistance. The T2000Z 's new coating and substrate reduce both tool wear and breakage. The T2000Z is available in negative and positive rake geometries with our high quality chip breakers.