





1001 Business Center Drive Mount Prospect, IL 60056-2181 Toll Free: (800) 950-5202 Phone: (847) 635-0044 Fax: (847) 635-7866 http://www.sumicarbide.com Sumitomo offers advanced milling, drilling, and hard milling solutions for the most complex die and mold parts.



DIE & MOLDMAKING: DRILLING TOOLS

SMD Replaceable Tip Drill

- Available in metric and inch diameters ranging from 0.4688"
 1.2008"
- Available in 3XD, 5XD, and 8XD hardened steel coolant through bodies that can accept multiple diameters
- Three styles of DEX™ drill tips to maximize performance in steels, stainless steels, cast irons, and exotic materials
- Ground serrations on back of drill tip allow for precise assembly and superior repeatability



WDX Indexable Drill

- New balanced design for stability and three chipbreakers for superior chip control
- New insert grades yield longer tool life in steel and cast iron
- Four cornered insert design for easy tool management
- Available in 2XD, 3XD, and 4XD drills



GS/HGS SolidCarbide Drills

- Increased wear resistance due to the high oxidation temperature of the Sumitomo DEX™ coating
- Point and flute geometry of the GS drill reduce thrust and horsepower consumption
- Available in coolant through and non-coolant through geometries



Deep Hole Carbide Drill

- Solid carbide coolant through drills for deep hole drilling
- 12XD and 20XD available as stock standard items
- Diameters from 0.118" 0.750" in 12XD, and 0.118" - 0.5512" in 20XD
- Excellent hole surface finish due to its double margin flute design



DIE & MOLDMAKING: HARD MILLING TOOLS

BNBP Ballnose Finishing CBN Endmill

- Excellent tool life in high speed, high precision machining of prehardened and hardened steel <HRc70
- High radial cutting edge profile accuracy (±0.0002in/±0.005mm)
- Excellent surface finish capabilities using chipping resistant Sumitomo CBN grades



BRC Finishing CBN Endmill

- High speed, high efficiency milling of hardened molds or cast iron materials
- Cost effective full-top CBN inserts allows for multiple indexes
- Available in both shell mill and small diameter endmill types
- Rigid clamping system ensures high accuracy





Master Tool offers specialized tooling systems designed specifically to meet demands unique to the mold and die industry.

DIE & MOLDMAKING: MILLING TOOLS

WEX Indexable Endmill

- The unique shape and strength of the cutting edge has been optimized resulting in reduced cutting forces
- A wide range of machining applications due to the new "Super ZX", "Super FF", and diamond-like carbon coatings
- Cutter body and insert strength provide for high feed rate capabilities
- Efficient chip removal due to air/coolant hole design

WRCX Indexable Shell Mill

- Round style inserts offer up to eight indexes
- Pocket design eliminates insert rotation and breakage during aggressive machining
- Created specifically for the interpolation of complex threedimensional tooling surfaces and for maximum roughing capabilities





MZI/MZBI Solid Carbide Endmills

- Two flute and four flute available in coated or uncoated solid carbide
- Square nose and ball nose geometries
- Inch and metric diameters available ranging from 0.040"
 1.000"
- High rigidity with excellent chip control



- Promotes efficient cutting action with low horsepower consumption
- Screw-on insert design features carbide back up seats for durability
- Inserts available in "M" class, "E" class, and several chipbreakers/edge preps for almost any situation



- High feed rates up to 0.055 IPT
- Higher clamping rigidity due to double clamping system
- Available in 0.750" 1.500" bodies with air holes for improved chip evacuation
- Capable of both ramping and helical boring applications

WBMR/WBMF Indexable Ballnose Endmills

- Dedicated 2-flute ballnose endmill designed specifically for high performance rough cutting
- Neutral insert edge with positive relief on face consumes low horsepower
- Negative assembly tolerancing eliminates 3-D surface violations caused by cumulative tooling errors
- The perfect 1-2 punch for the roughing of dies and moldwork when combined with the WRCX



"Metal Slash Mill" High Feed Endmill

- High feed rates maximum feed rate of 0.078 IPT
- Four corner insert design yields low tooling costs per part
- Unique design directs cutting forces into the machine spindle to facilitate high feed rates even in low rigidity conditions





Sumitomo Electric Carbide, Inc.

Headquarters

1001 Business Center Drive Mount Prospect, IL 60056-2181 P.O. Box 545, Mt. Prospect, IL 60056-0545

Phone: (800) 950-5202 Phone: (847) 635-0044 Fax: (847) 635-7866

http://www.sumicarbide.com

Detroit Branch

14496 Sheldon Road #230 Plymouth, MI 48170 Phone: (800) 239-5177 Phone: (734) 451-0200 Fax: (734) 451-5338

Cincinnati Branch

4450 Carver Woods Drive Cincinnati, OH 45242-5545 Phone: (800) 879-1887 Phone: (513) 891-4000

Fax: (513) 794-2911

Huntsville Branch

5650 Sanderson Street NW Suite J Huntsville, AL 35805 Phone: (256) 895-2845 Fax: (256) 895-3150

Torrance Branch

21221 South Western Avenue Suite 200 Torrance, CA 90501 Phone: (800) 950-5202 Fax: (310) 782-0211

Sumitomo Hardmetal Mexico (SHMM)

Avenida Universidad #1703-A Fracc. Lomas del Campestre Aguascalientes, AGS Mexico Phone: 011-52-449-993-2740 Fax: 011-52-449-993-2753

