



# **Our Capabilities**

www.archcuttingtools.com | Easy to Choose, Easy To Use®





ARCH<sup>®</sup> Cutting Tools is making significant investment in building a full-service midsized cutting tool company. Capable of providing nimble, streamlined and highly interactive service to our customers. Building on a rich heritage of high-quality domestic manufacturing, ARCH Cutting Tools has significantly expanded our standard solid round tool offering under the trusted KEO<sup>®</sup> brand name and our indexable portfolio under the Ultra-Dex<sup>®</sup> brand. "The Collection" catalog integrates all heritage KEO products, a full line of micro tools, and a comprehensive new offering of Patriot High Performance<sup>®</sup> milling and drilling tools in an Easy to Choose, Easy to Use<sup>®</sup> format designed with the end-user in mind. All with the purpose of creating many new facets of product and service with which we can support your manufacturing needs.

Our valued customers have spoken. We listened carefully. You called for ease of doing business. You demanded we deepen the ARCH Cutting Tool portfolio with new and innovative standards, stocked tooling options.

The new catalog coincides with a significant investment in a state-of-the-art warehouse that allows customers to place one order, ship minimum number of packages for a wide breadth of solid round cutting tools.

Please look for additional communications as we work to further expand the ARCH catalog offering.

#### Jeff Cederstrom

President, ARCH Cutting Tools

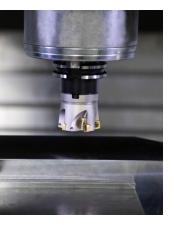


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ARCH<sup>®</sup> Cutting Tools is your complete tool making authority. ARCH does this by blending our customer service associate's strengths with the commitment of 350,000 square feet of American manufacturing that provides the innovation to support the breadth of in-stock Standards for quick shipment at our all-new Midwest campus. It is no coincidence that ARCH leads the industry in custom engineered tooling solutions. It was intentional.

The cutting tool heritage of KEO<sup>®</sup> has evolved over the past 80 years to include Micro Tools, Milling Cutters and in the last decade, the Patriot High Performance cutting tool line. We build on this with the broad portfolio of the Ultra-Dex<sup>®</sup> indexable product line supporting manufacturing solutions in tool holding, indexable milling, boring, turning, threading, grooving, and hole-making. Adding to the pillars of strength is collaborating with the customer to enhance process and profitability with our engineered custom tooling solutions through ARCH Specials, from solid round, indexable, and PCD tipped to complex multi-function tools. ARCH Cutting Tools provides the best service and solutions in the cutting tool industry!

#### **ARCH Cutting Tools in America**



Headquarters ARCH Corporate 2600 S. Telegraph Road Bloomfield Hills, MI 48302

**Arkansas** ARCH Cutting Tools - Little Rock 11600 Arch St.

Little Rock, AR 72206

Fort Wayne, IN 46803

Indiana ARCH Cutting Tools - Fort Wayne (Plant I) 7007 Trafalgar Street

ARCH Cutting Tools - Fort Wayne (Plant II) 3955 Industrial Blvd. Indianapolis, IN 46254 Kentucky Beamer Laser Marking Systems (Plant II) 6318 Taz Ct. Bowling Green, KY 42104

Maine ARCH Cutting Tools - Maine 5 Industrial Way Cornish, ME 04020

Massachusetts ARCH Cutting Tools - Plymouth 250 Cherry St. Plymouth, MA 02360

ARCH Cutting Tools - Athol 273 Main St. Athol, MA 01331 **Michigan** ARCH Cutting Tools - Warren (Plant I) 25040 Easy St. Warren, MI 48089

ARCH Cutting Tools -Centralized Distribution Center 25125 Easy St. Warren, MI 48089

ARCH Cutting Tools - Flushing (Plant II) 7144 Sheridan Rd. Flushing, MI 48433

Beamer Laser Marking Systems (Plant I) 7136 Sheridan Rd. Flushing, MI 48433

Diversified Percision Products 6999 Spring Arbor Rd. Spring Arbor, MI 49283 New York ARCH Cutting Tools - NAC 5720 Ellis Rd. Orchard Park, NY 14127

Ohio ARCH Cutting Tools - Mentor (Plant I) 9332 Pinecone Dr. Mentor, OH 44060

ARCH Cutting Tools - Mentor (Plant II) 9435 Pineneedle Dr. Mentor, OH 44060

ARCH Cutting Tools - Dayton 2700 Russia-Versailles Rd. Russia, OH 45363 ARCH Cutting Tools - Dayton South 600 E Main Street Russia, OH 45363

Pennsylvania ARCH Cutting Tools - Latrobe 131 Turnberry Cir. Latrobe, PA 15650

Rhode Island ARCH Cutting Tools -Rhode Island 339C Farnum Pike

Smithfield, RI 02917





We focus on producing high precision cutting tools utilizing carbide, PCD, CBN, HSS, Cobalt with a variety of high performance coatings. The high quality work of our skilled associates, the strength of our brands, and the breadth of our product offering are points of pride.

#### Rotating

- Indexable Cutter Bodies
- End Mills
- Drills
- Micro Tools
- Countersinks
- Spot Drills
- Chamfer Mills & Drills
- Engraving Cutters
- Corner Rounding End Mills
- Keyseat Cutters
- Dovetail Cutters
- T-Slot Cutters
- Tool Holders
- Solid Arbor Mount

#### **Non-Rotating**

- Indexable Boring Bars
- Indexable Square Shank Holders
- Wide Range of Inserts
- Hardware / Accessories

## For More Information

Go to archcuttingtools.com and click on "Contact Us"

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My Account Contact Us Find Distributor 🐺 0 - $0.00
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The KEO<sup>®</sup> Solid Round portfolio consists of Patriot HP end mills, Patriot HP Drills, micro tools, center drills, countersinks, keyseat cutters, NC spotting drills and more. KEO was built on cutting edge manufacturing, on imagination and an unbeatable determination to make you more productive. 80 years later we still hold true to that promise, providing all the legacy tools you know today and in addition, new high-performance carbide tooling for today's most demanding applications. KEO will continue to be at the forefront of innovative solutions, in sophisticated applications, and in every manufacturing industry across America.

KEO is comprised of a huge selection of Solid Carbide, PCD, CBN, HSS, HSSco & Carbide tipped variations of large diameter and Micro Tools, in Imperial & Metric options. Many in both solid shank & arbor type platforms:

#### Patriot High Performance End Mills



PATRIOT by KEO

Originally optimized to tackle difficult to machine applications such as in Titanium & pre-hardened steels, this High-Performance End Mill has excelled in a wide array of exotic, alloyed and ferrous part materials. The Patriot family of highperformance end mills is designed with advanced proprietary geometry and thin film coating in order to consistently deliver increased tool life, superior part finish and aggressive material removal rates within machine environments that generate extreme working temperatures.

#### Patriot High Performance Solid Carbide Drills





Incorporating a wide range of drill lengths and diameters, our Patriot High Performance portfolio of solid carbide drills excels across the broad spectrum of all ISO class workpiece materials, from general steels, cast irons, HSRA, and many more. With diameters as small as 0.8 mm (0.0314 inches) and up to 20.0mm (0.7874 inches), single or double margin offering based on cutting diameter. Our range covers a comprehensive application base, providing a universal geometry suitable for most applications across all industry segments that focus on hole quality. These include die and mold, automotive, medical, and aerospace.

Milling	Drilling	Finishing	Contouring	Saws
End Mill	Circuit Board	Engraving / Marking	Key Seat	Slitting
Side Mill	Spotting	Deburring	Dove Tail	Form Relieved
Shell	Countersink	Corner Rounding	Double Angle	Slotting
Tapered Rib	Counterbore	Chamfering	Concave / Convex	Gang



#### Standards





The Ultra-Dex<sup>®</sup> portfolio offers a variety of indexable cutting tools, specializing in boring, milling, drilling, tool holding and inserts. A continued investment in the scope and breadth of the Ultra-Dex product line provides our customer with the latest technology to improve processes on their manufacturing floor.

Ultra-Dex offers High Performance Indexable Drills. Flutes are designed for stiffness and superior chip evacuation. Inserts are fully utilized by switching pockets and indexing 4 times. These drills can be radially adjusted or offset to produce larger holes, reducing the total number of drills you keep in stock. Drilling into angled or uneven surfaces without a spotting operation is easy. Through coolant provides effective chip evacuation and long tool life.



Select from Ultra-Dex's offering of indexable tooling, holding & accessory options:

#### **Patriot High Performance Drills**





This next level tool is designed to take on rugged conditions when wear resistance is critical. Made with a premium steel body for exceptional wear resistance. Along with its companioning four-edge proprietary insert design comes standard with a variety of High-Performance coatings. Its geometry is optimized to reduce chip wash, provide excellent chip control and lower cutting forces in all ISO materials.

Milling	Boring	Hole-Making
Threading	Turning	Tool Holding

Carbide inserts with several advanced coated options are stocked, standard to accompany any tool body selection.

Ultra-Dex offers Rotary Tool Holders are hardened & tempered to prevent cracking along the taper and balanced to significantly reduce vibration to maintain a T.I.R. of .0002".

Standard offering includes common shank configurations to include CAT40 & CAT50 shrink fit, HSK40A, 50A, 63A, HSK 80A, 100A, 125A & Straight Shank in coolant through options. We also offer accessories such as retention knobs, z coolant tubes, ER collets, Bushings & more. Custom holders are also available.

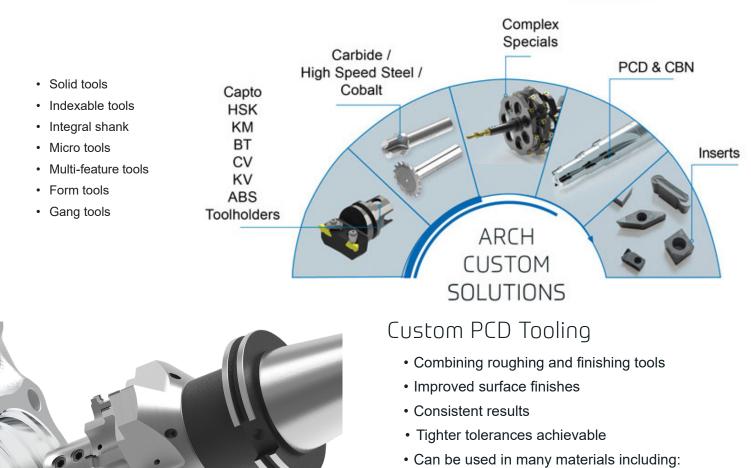




# **ARCH**<sup>®</sup> Specials

With our wide range of application expertise and depth of cutting tool knowledge, we bring our customers an overarching perspective, full life cycle collaboration, and supply chain management that provide performance improvements to your organization. ARCH Cutting Tools offers best practices, engineering intelligence, and infrastructure to allow us to focus on creating custom-engineered solutions centered on our customer's needs.





- Aluminum Composite Material (ACM)
- Composite panels
- High pressure laminates (HPL)
- Fiberglass







#### Productivity at the Spindle

#### Our engineers talk to your engineers – fewer steps for better tools

At high speeds, even the smallest variance is amplified. When a customer consults with us, they get design-for-manufacturability guidance. We can help reduce the number of steps required to produce a component and the number of cutting tools needed to do it. Each time you take out a step in the manufacturing process, you remove the introduction of an inconsistency, divergence, or variation, no matter how small.

Milling, drilling, boring, turning, and holding tools can all be optimized with our proven full product life cycle process. From the initial on-site consultation to engineering and design assistance, from full supply chain management to complete customer service, ARCH Specials enables our customers to develop specialized cutting tool solutions that not only improve their final product, but also how they operate as an organization.

#### We provide:

- Operational consultation
- Cost-reducing efficiencies
- · Process improvements
- · Advanced coatings and laser etching
- · Comprehensive supply chain management
- Unmatched customer service

#### Case Studies





## Contact ARCH Specials: (844) 321-ARCH | ARCHCTSpecials@archgp.com





# **ARCH**<sup>®</sup> Services

## Repair - Recondition - Recoat - Regrind - Retip - Resize

#### Save up to 75% off the cost of new tooling

Contact us at archcuttingtools.com/services



ARCH Cutting Tools is proud to offer our customers complete repair services for any solid or indexable tooling.



#### **Indexable Tools**

- Capable of repairing any manufacturers' tool or insert pocket type
- All tools brought back to original manufacturer's specifications
  - Experienced with HSK, KM, CAPTO, and all standard machine tapers

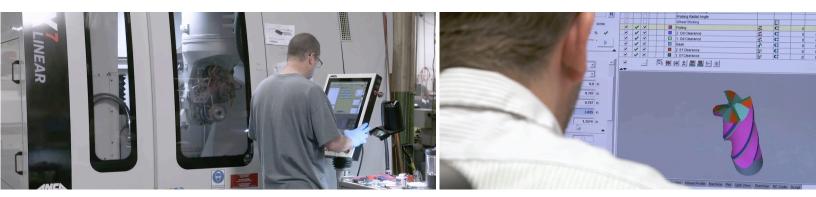




#### Solid Round Tools

- Carbide, HSS, Cobalt
- PCD/CBN Tipped
- Any coating





## Locations across the USA, 20+ application engineers, all working for you. Contact us today!



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- Check inventory
- · Contact our experts
- More info about us
- · Keep up on news and events
- Request catalogs



Can't find what you need in our standard stocked inventory? We can create your custom tooling solution within ARCH's 350,000 square feet of manufacturing space. Here to serve you is ARCH Specials:

Standard Tools: ARCHCTSales@archgp.com 888-390-2050

## Special Tools: ARCHCTspecials@archgp.com 844-321-ARCH



Easy To Choose, Easy To Use ®

# ARCH<sup>®</sup> Cutting Tools



#### THE COMPLETE TOOL MAKING AUTHORITY®