Our Capabilities

ARCH GLOBAL PRECISION

AMERICAN MANUFACTURING SERVING THE WORLD
Together we can help you!

ARCH Global Precision is a family of companies that collectively manufacture high quality cutting tools and precision machined components for industry. Our plants are located throughout the United States and we are extremely proud that all of our products are 100% American Made. We are metalworking experts that are solutions oriented in how we approach the manufacturing challenges of our customers. We firmly embrace a high level of engagement with our customers, including program management, design for manufacturability, onsite testing, support, and proactive customer service. Working together, we provide the best products at competitive prices with superior customer service.
Our Companies

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ULTRA-DEX prides itself on delivering the highest quality and the best value products to our customers. Using the latest technology and processes, we prove American Manufacturers can compete with imported products. We manufacture a variety of indexable cutting tools, specializing in boring, milling, drilling, tool holders and inserts.

Custom build manufacturing, detail and assembly are the cornerstone of our services. We will finish the vision of your sketches into real working tools and our experienced engineering staff allows us to design specialized tooling to perform multiple operations. We are also experts in reconditioning used or damaged indexable tools and are committed to a revitalized restoration.

Over the last several years we have dramatically increased the scope and breadth of our product offering and we will continue to do so going forward. As many of our satisfied customers have come to know, our passion is providing excellent products proudly made in the USA, at a great price!
Standard Tools
The Ultimate USA Made, Indexable Metalworking Source at Aggressive Pricing
4,000 Tools In-Stock, Ready to Ship!

Indexable Lathe Tooling
Internal Boring, Complete Line of Standard ISO Boring Bars
♦ 0.156” - 4” Diameters Available
♦ 4:1 - 14:1 Ratios, with 16:1 Capabilities
♦ Steel, Carbide, Hybrid and Heavy Metal Materials
♦ Solid, Modular and Chatter-Free Styles

External Boring, Square Shank Tool Holders
♦ 0.625” - 1.50” Shank Sizes
♦ CNMG, DNMG, RNMG, SNMG, TNMG, VNMG, & WNMG Insert Styles
♦ 21 Different Head Configurations

Indexable Drilling
Value 2xD and 4xD, Coated/Uncoated Drills
♦ 0.437” - 2.375” Cutting Diameters Available
♦ + Chamfer Drill Options

Coming Soon! Pro 3xD, Coated/Uncoated Drills
♦ NEW Insert Geometries
♦ Improved Drill Body Material
♦ Improved Chip Control
♦ Less Spindle Pressure Required

Indexable Milling
♦ Standard End Mill and Face Mills
♦ Round End Mill and Face Mills
♦ Chamfer End Mills

Rotary Shank Tool Holders
♦ CAT40, CAT50, HSK40A - HSK125A & Straight Shank Machine Connections
♦ ER Collet Chuck, End Mill, Shell Mill, Shrink-Fit, & Jacobs Taper Tool Connections

Carbide Inserts
+ Special Tools (24-48 Hour Quoting)
Custom Design & Build, Detail Work + Repairs
**Design & Build Specials**

♦ Our Experienced Engineering Staff Allows Us to Design Specialized Tooling to Perform Multiple Operations
♦ Our Attention to Cost Effective Machining Saves You Time and Money
♦ We Maintain All Necessary Equipment for Completing All of Your Manufacturing Needs
♦ Including 3D Prototype Drawing

**Blueprint Detail Work**

♦ We Can Machine Anything!

♦ Complete Milling Department
  - Including 5-Axis Milling
♦ Complete Lathe Department
♦ Complete Wire EDM Department
♦ Complete Grinding Department
  - Including Jig and Centerless Grinding
♦ Heat Treat, Black Oxide & Laser Engraving
Chatter-Free Boring

Our Chatter-Free Tooling (CFT) utilizes proprietary Tunable Internal Dampening Technology. This technology enables extended reaches of up to 10x bar diameter and 14x bar diameter with our carbide reinforced bars. Increase productivity with higher feed rates and improved surface finishes. The CFT modular system gives the operator the ability to perform multiple operations with one bar. We offer heads for roughing, finishing, grooving, and threading.

♦ ½” – 4” Diameters, 4:1 – 14:1 Ratios, with 16:1 Capabilities

♦ Standard and Serrated Connection Modular Heads Available in Negative, Positive, and Threading/Grooving Configurations

Repairs & Reconditioning

♦ Featuring Quick Pic Quoting!

Simply Text or Email a Pic of Your Damaged Tool…

- Include Your Name and Contact Information
- Reference Your Distributor & Part Numbers

It’s that Easy!

♦ Full Line of Stocked Hardware
♦ Capable of Repairing ANY Manufacturer and Insert Type
♦ All Tools are Brought Back to Original Manufacturer Specs
♦ Experienced with HSK, KM, CAPTO and All Standard Machine Tapers

SAVE Up to 75% OFF the Cost of New Tooling!
Richards Micro-Tool is your precision performance company when it comes to engineering and producing miniature cutting tools. We set the standards for quality, service, and value for the industry and the medical field through practical experience and state-of-the-art technology.

At Richards Micro-Tool our goal is to deliver enhanced value through engineering solutions for your cutting tool applications. We take the time to understand your application to provide a cost effective solution, expected results and long-term value. This includes our in-stock cutting tools and custom applications. Our job is to help you create a superior product by partnering with you as a unified metalworking team.

Richards Micro-Tool goes above and beyond, we are continuously improving both our products and our services. We make every effort to turn quotes around in 24 hours or less, which is second to none in the industry. We have a well deserved reputation for delivering products on time, and for going the extra mile to assist our customers. Discover for yourself the difference Richards Micro-Tool can make for your company.
Standard Tools
The Widest Selection of Micro Tools Made in USA
5,000 Tools In-Stock, Ready to Ship!

Carbide End Mills
♦ 0.005” - 0.500” Diameters Available
♦ Standard, Stub and Long Flute, Up to 15X Diameter Flute Length
♦ Hundreds of Stocked Reached End Mills, Reach Lengths Ranging from 3X - 20X Diameter
♦ All Standard Carbide End Mills Stocked Uncoated and TIALN Coated
♦ Hundreds of Amorphous Diamond Coated End Mills Stocked
Huge Selection of End Mills Capable of Machining PEEK Plastics for Medical Applications

Cobalt / HSS – End Mills & Drills
♦ Hundreds of Standard and Stub Length of Cut End Mills Stocked in HSS and M42 Cobalt Materials
♦ Cobalt Micro Drills Available, Ranging from 0.1mm - 3mm in Diameter
♦ Uncoated and TICN Coated Drill & Countersinks

Carbide Specialty Tools
Stocked Uncoated and TIALN Coated...
♦ Circuit Board Drills
♦ NC Spot Drills
♦ Corner Rounding End Mills
♦ Drill & Countersinks
♦ Keyseat Cutters
♦ PCD Mills
♦ Drill Mills
♦ Chamfer Mills
♦ Engraving Cutters
♦ Marking Cutters

We Offer Vast Tool Options for Fine Jewelry and Electronic Applications
+ Extreme Availability of Corner Rounding End Mills, Angled Cutters, PCD Mills, Amorphous Diamond Tools & More!

Special Tools / Specialties (24-48 Hour Quoting)
Whether it’s a simple modification of a standard micro tool or a complete custom design that’s specific
to your exact application, we do it all. Our goal is to deliver enhanced value through engineered
solutions for your cutting tool applications. We take the time to understand your application so that
we can provide a cost effective solution that delivers effective results and long-term value.
♦ T-Slot Cutters
♦ Step Drills
♦ Half-Round Tools
♦ Counterbores
♦ Grooving Tools
♦ + More!

In-House Application Testing!
♦ Substitute Machining
♦ Tool Design Perf Test
KEO Cutters is the recognized North American leader in the production and sale of combined drills and countersinks (aka “center drills”) since its inception back in the 1940s. The KEO brand is synonymous with quality and our products are used by the most successful machining businesses throughout North America and the rest of the world. In addition to center drills, we are also a leading supplier of countersinks, NC spotting drills, counterbores, and keyseat cutters. All of these products are sold through our loyal distributor and catalog house customer base. In addition, these products are all manufactured in Warren, Michigan by a group of the most talented equipment operators in the world. Many of our employees have been manufacturing KEO cutting tools for over 40 years!

Our cutting tools are offered in high speed steel, cobalt and carbide versions, in most cases. In addition to our standard product offering, we are also a leader in the production of custom or “specials” tools to your print. Our talented engineering staff can even assist you with the development of custom tools to meet the unique challenges of your specific machining application. Recently KEO Cutters has expanded its offering to address international markets and international sales growth remains a top area of focus for the business going forward.
Standard Tools
World Leader in Performance Solid Cutting Tools
3,000 Tools In-Stock, Ready to Ship!

**Combined Drills & Countersinks**
- 0.01” - 0.375” Point Diameter, Standard Sizes Available
- 0.5mm - 12.5mm Point Diameter, Metric Sizes Available (DIN 333)
- HSS, Cobalt, Carbide and T15 Materials with Different Coating Options
- Plain Type, Plain Type Hey, Radius Type, Bell Type, Bell Type Hey, & Jig Bore Types

**Spotting Drills**
- 0.125” - 1.75” Diameter, Standard Sizes Available
- 2 mm - 25mm Diameter, Metric Sizes Available
- 82°, 90°, 118°, 120° and 142° Point Angles Available
- HSS, Cobalt and Carbide Materials with Different Coating Options

**Countersinks**
- 0.125” - 3” Body Diameters Available
- 60°, 82°, 90°, 100°, 110° and 120° Countersink Angles Available
- HSS, Cobalt and Carbide Materials with Different Coating Options
- Featuring Our ZErO Flute Cobalt Countersink and Deburring Tools

**Counterbores**
- 0.186” - 1.588” Counterbore Diameter, Standard Sizes Available
- 6mm - 20mm Counterbore Diameter, Metric Sizes Available (DIN 373)

**Center Reamers**
- 0.250” - 2” Body Diameters Available
- 60°, 82°, 90°, 100°, 110° and 120° Countersink Angles Available
- HSS, Cobalt and Carbide Materials with Different Coating Options

**Milling Cutters**
- Keyseat, Dovetail, and T-Slot Milling Cutters

**Special Tools** (24-48 Hour Quoting)
Simple Modifications of Stock Tools and Complex Custom Tools
For over 28 years, Keo Milling Cutters has been an industry leader in supplying the North American market with high quality milling cutters, saws and customized cutting tools. We design and manufacture tools with advanced geometries and tight tolerances that have a proven record of providing faster speeds and feeds, while generating consistent high quality results for our end users.

Headquartered in Athol, Massachusetts, KEO Milling Cutters is a sister company to KEO Cutters. Whether we are producing our standard catalog offering or quickly turning around a “custom” or “special” order for our customers, all tools are produced here in the U.S.A. by our highly skilled and prideful associates. We offer high speed steel, cobalt, carbide tipped and solid carbide cutting tools with several coating options that are sold through our loyal distribution customer base. We also perform re-grinding services on our tools to restore them to their original condition and allow our users to maximize their utilization and reduce their costs. Whether you are a long time KEO Milling Cutters customer, or just now considering us, we want to thank you for your business and consideration of us as your source of choice for all of your milling cutter, saw blade and customized tool requirements.
Standard Tools

6,000 Tools In-Stock, Ready to Ship!

Milling Cutters

♦ HSS, Cobalt, Carbide and T15 Materials with Different Coating Options

Shank-Type
♦ Keyseat Cutters
♦ Dovetail Cutters
♦ T-Slot Cutters
♦ Double-Angle
♦ Chamfering
♦ Concave Radius
♦ Convex Radius
♦ Corner Rounding

Hole-Type
♦ Side Milling
♦ Double-Angle
♦ Single-Angle
♦ Shell Mill
♦ Slitting Saw
♦ Saw
♦ Plain Milling
♦ Concave
♦ Convex
♦ Corner Rounding

Special Tools (24-48 Hour Quoting)

Simple Modifications of Stock Tools and Complex Custom Tools

Custom Carbide Cutting Tools

♦ T-Slot Cutters
♦ Form Cutters - Shank and Hole Type
♦ End Mills - Square, Ball Nose, Tapered and Roughing

♦ 3/32” - 5” Diameters Available

Custom HSS Cutting Tools

♦ Form Cutters - Form Cam Relieved and Profile Ground
♦ Gang Cutters - Interlocked to Produce Special Forms In a Single Pass

♦ Diameters Up to 10”
♦ Bores Up to 3”

Resharpening Services

♦ HSS and Cobalt Tools
♦ We Will Sharpen Any Brand of Tool!
Headquartered in Russia, Ohio, Voisard Tool was originally founded as a regrind shop focused on supporting the cutting tool service needs of local manufacturers around Dayton, Ohio. After the company purchased its first CNC grinding machine, the company has continued to invest heavily in CNC grinding technology. Today Voisard Tool has more than 25 state-of-the-art CNC grinding machines that produce high quality cutting tools every day of the week.

As Voisard expanded, it focused on producing high quality end mills, drills and special cutting tools for demanding applications. The company has an exceptionally talented and dedicated workforce and prides itself on providing high quality cutting tools, coupled with extraordinary focus on customer service.

Voisard stands ready to invest heavily in support of the growth of its customers, which now include businesses throughout North America, South America, Asia and Europe. Look no further if you are looking for a cost effective, high quality solution to your cutting tool needs.
Standard Tools
Specializing in High Performance Carbide Cutting Tools

♦ End Mills
♦ Micro End Mills
♦ Thread Mills
♦ Drill Mills
♦ Chamfer Mills
♦ Countersinks
♦ Taps & Dies
♦ Reamers
♦ Burs
♦ Drills

Available in Carbide, HSS & Cobalt with Different Coatings

Special Tools (24-48 Hour Quoting)
We Engineer Custom Tools or Build to Print. Extremely Fast Turnaround!

Custom Carbide Drill Burnish Tools
♦ Straight Flute Drills for Cast Iron and Aluminum
♦ Variations of These Tools Can Be Made to Order for Port Hole Drilling, Drilling & Back Chamfering, plus Precision Boring of Pre-Drilled and Cored Holes
♦ Coolant-Thru and Material Specific Coatings Available for a Wide Variety of Applications

Custom Carbide Helical-Flute Drills
♦ High Performance Helical-Flute Drills
♦ Normally Used in Steels or Other Materials that Produce Long Chips and Need the Positive Rake
♦ Variations of These Tools Can Be Made to Order for Drilling & Back Chamfering
♦ Coolant-Thru and Material Specific Coatings Available for a Wide Variety of Applications

Custom Carbide End Mills
♦ We Produce Many Varieties of Special End Mills for a Wide Variety of Applications
♦ On-Site Edge Prepping
♦ High Performance Capabilities - Solid Carbide end mills that incorporate the ultimate in variable index geometry. Our flute configuration produces a harmonics shift, resulting in minimal chatter and an exceptional finish.

Resharpening Services
♦ Dedicated Resharpening Machines and Personnel For Quick Turnaround
♦ Automation to Handle Large Volumes
♦ 25 CNC Grinders, 15 of which are Automated
♦ OTEC Drag Finishing Machines
♦ Capable of Resharpening Many Types of Drills and End Mills
♦ Sort, Laser Etch and Pack to Customer Requirements
♦ Re-coat Tools Using All Major Coating Companies
Little Rock Tool (LRT) is a skilled cutting tool manufacturing facility located in Little Rock, Arkansas. LRT was established in 1963 to serve the growing demands of the Automotive, Power Generation, Aerospace and Defense industries.

In our 38,000 square foot facility we manufacture what we call “special specials,” which is the more complex tooling that most cutting tool shops do not produce due to the complexity and difficulty of producing these tools. We specialize in high speed steel, carbide tipped, solid carbide, and CBN tools. The key to success is our ability to consistently solve our customers cutting tool needs and designing tools to improve the machining processes.
Special Tools (24-48 Hour Quoting)

With a customer's part print we can design the cutting tool required to produce the desired cavity. With our ability to produce HSS, HSCO, solid carbide, carbide tipped or CBN tipped; we can design the right tool for the job. Combining features on step tools reduces machine cycle times and is the main focus for our engineers. Detailed prints of the tool can be supplied on customers title block if the title block is provided by the customer, if not, the print will be on LRT title block. Speed and feed parameters can also be recommended.

Aircraft & Defense Cutting Tools

Rivet Shavers
We have been awarded no substitute for certain customers because our Rivet Shavers are ground to a process that ensure no dome left at the center of the rivet.

Drivematic Drills
Our grinding process ensures close TIR for diameters, chamfer angles and drill point angles. We have the capabilities to make these tools from HSS, HSCO and Solid Carbide.

Threaded Shank Tooling
We make Threaded Shank C-bores, Reamers and Dreamers in Solid Carbide or Carbide Tipped material.

Automotive Cutting Tools
We are experts at complex round tools in HSS, HSCO, Solid Carbide, Carbide or CBN Tipped material.

General Industry Cutting Tools
Having a hard time finding a reliable vendor for your more complex tools? We fill this void exceptionally, with great pricing and lead times.

High Volume Cutting Tools
Blanket orders or consignment agreements on tools that have a high volume requirement can be worked out with customers to ensure the best pricing and availability of tools.

Reconditioning & Resharpening
LRT can retip and regrind Carbide Tipped tools saving 35% from the new cost of the tool. We also resharpen HSS, HSCO and Solid Carbide tools at a 60% savings from the new cost. We offer this service on not only the tools we make, but other manufacturers.
Lasers are our passion. For over a decade, the perfect laser marking system has evolved! Beamer Laser Systems provide the ability to mark virtually any design on surfaces with ease, speed, and precision. The versatile structure of the Beamer allows endless options to fit any form of production. A variety of standard enclosures are available, along with custom options including automation.

Beamer Laser Systems is committed to manufacturing high quality Laser Machines. The quality of our products, along with our personal service, set us apart from the competition. We are dedicated to keeping up with the latest technology and we continue to improve existing product lines, while developing new products.

We are behind you every step of the way!
Setting ourselves apart from the rest is our continued commitment after the sale. Not only are you getting a Beamer, but a support team that will be with you in aid for the growth of your business.
BEAMER LASER SYSTEMS

♦ Controls for Simple Operation
♦ Windows Based User-Friendly Software
♦ Runs Off Standard 110 Volts, Completely Air Cooled
♦ Easy to Remove Side Panels Allow for Larger Parts to be Marked
♦ Built With High Strength Powder Coated Square Tubing & Steel Panels. Not Plastic or Aluminum!

B-Series
Engineered specifically to fulfill all laser marking applications, the B-Series Enclosure provides everything needed to easily mark your product quick and safe. Dual doors offer quick and precise part loading, while removable side panels allow larger parts to be marked as well. It has built-in compartments for the computer tower, with easy access to components and storage areas. The computer monitor and control panel rest on a convenient double-jointed swinging arm.

S-Series
All the same amenities as the B-Series Enclosure offered in a more compact design. It is the perfect size for a designated area such as a shipping room. Dual doors offer quick and precise part loading, while removable side panels allow larger parts to be marked as well. The PC rests outside of the enclosure in an area of your choice.

L-Series
Everything needed to easily mark your larger product quick and safe. It can accommodate up to a 3’ part with the side panels attached. Easy to remove side panels allow for even larger parts. Dual doors offer quick and precise part loading. It has built-in compartments for the computer tower, with easy access to components and storage areas. The computer monitor and control panel rest on a convenient double-jointed swinging arm.

T-Series
The new benchmark for high volume marking. Simply place the objects on the rotating table, set up the laser, press the button and watch the table turn. As the objects are being marked you can have more ready to go. The T-Series Enclosure is also more compact than the standard B-Series model. The control panel and screen are built in thus eliminating a swinging arm. This allows for convenience of placement.

Class-4 No Enclosure
This is a non enclosed unit. This unit is flexible in sizes and contains the minimum needed to mark what you need. Place it on a table or anywhere convenient. Save space and money by ordering a class 4 unit today!

C-Series (CUSTOM)
Have a special application or placement you would like the Beamer to occupy?
We will work closely with you in the design of a custom enclosure that will fit your needs. Possibilities are endless with Beamer Laser Marking Systems! Significantly improve production time with the incorporation of automated options in your system.
Together we can help you!

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