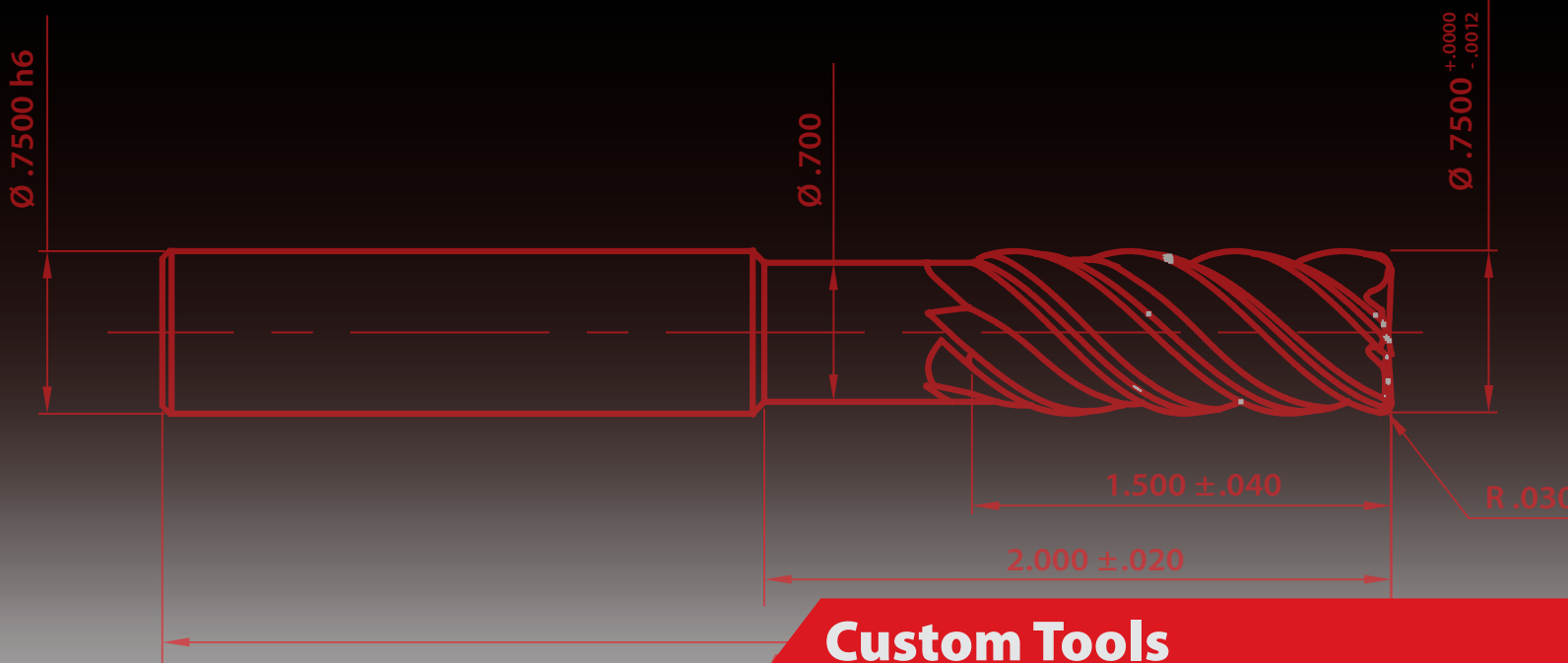


# YG-1 SPECIAL TOOLS AND RECONDITIONING SERVICES



THE MARKET LEADER IN CARBIDE ROUND TOOLS



## Custom Tools

*Form tools, special end mills, step drills, reamers. HSS and Carbide available.*

## QuickTurn Program

*Quick delivery of tools that are close to standard dimensions with slight modifications.*

## Tool Reconditioning

*Recondition end mills, drills, and special tools to extend life and improve your ROI!*

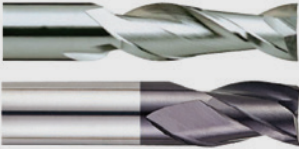


# Custom Tools

Made in the USA, with fast lead times and YG-1 technology!

## SPECIAL END MILLS BASED ON YG-1 STANDARDS

Square



Taper Ball Nose



4/5 Flute Variable Helix



Corner Radius w/ Neck



Double Core w/ Neck



Ball Nose



Ball Nose w/ Taper Neck



Taper

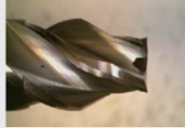


HSS End mill



## FULL CUSTOM END MILLS

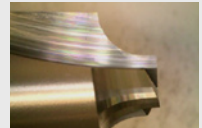
Step End mill



Chamfer Mill



Corner Round Cutter



Wood Milling Cutter



Form Cutter



## SPECIAL DRILLS AND REAMERS, INCLUDING PORTING TOOLS



## SPECIAL DRILLS BASED ON YG-1 STANDARDS

Dream Drill - General Type



Dream Drill - INOX Type



Dream Drill - Alu Type



Dream Drill - HHS Type



Dream Drill - Flat Bottom



## ENGRAVING TOOLS



# QuickTurn Program

Get exactly the tool you need — shipped in days, not weeks!

## QuickTurn High-Performance End Mills

- ▶ Easy selection and design starts with pre-fluted blanks in the most widely used sizes with predefined OD, SD, LOC, OAL (inch dimensions only).
- ▶ Specify your special dimension for: Cutting Diameter (OD), Length of Cut (LOC), Length Below Shank (LBS), Corner Radius, and Overall Length (OAL) using our simple quote request form (available on YG-1 USA website).
- ▶ QuickTurn delivery ships in 8 business days or less for coated tools, and 3 business days or less for uncoated tools. In many cases, faster shipping for coated tools is available, please consult with our Tech Center team for more information.
- ▶ Minimum order quantity: 3 end mills.
- ▶ For easy custom quote and ordering, visit [yg1usa.com/quickturn.asp](http://yg1usa.com/quickturn.asp)

## Standard Tool Modifications

Our huge standard inventory is flexible to meet your needs. Did you know? Many of the over 30,000 standard drills and end mills on the shelf in Chicago, IL can be pulled and shipped to our Charlotte Tech Center to be modified.

Ask your local YG-1 representative or distributor for more information the next time you need something just a little out of the ordinary—fast.

## CHOOSE FROM:

V7 Plus A **4-FLUTE** VARIABLE INDEX END MILLS



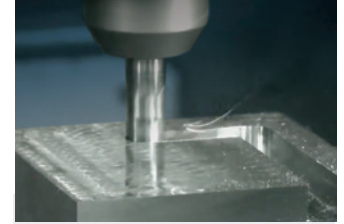
V7 Plus A **6-FLUTE** VARIABLE INDEX END MILLS



TitaNox Power **4-FLUTE** VARIABLE INDEX END MILLS

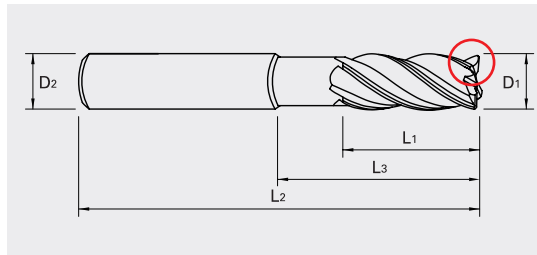


TitaNox Power **5-FLUTE** VARIABLE INDEX END MILLS



## CUSTOM OPTIONS:

- ▶ Square, radius, chamfer, ball nose, and corner radius styles.
- ▶ Regular, extended lengths, and neck-down tools available.
- ▶ Specify OD, LOC, OAL, and LBS dimensions made for your needs.



Unequal index with high-performance corner geometries including corner radius



### Corner Radius

D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
OD	SD	LOC	LBS	OAL

# Tool Reconditioning

End mills, drills and special tools reconditioned to extend life and improve your ROI!



Reducing tooling costs includes a great reconditioning program. YG-1 takes the hassle out of reconditioning by providing a program that's simple, easy and effective to use. Ship your tools to YG-1 and we'll take it from there.

We provide the same high quality YG-1 technology as was supplied when made new at the original factory.

**For quotes, please contact your local distributor.**

# YG-1 USA Tech and Manufacturing Center

*A wide range of special tools custom-designed to meet your specific needs!*

The industry's largest standard round tool portfolio is supported by local manufacturing and logistics for custom tools in the USA. When you work with YG-1 for special tools, you'll receive the same great YG-1 value from our unmatched raw material purchasing power, with local service and fast shipping.



**YG1 USA Tech & Mfg Center**  
11001 Park Charlotte Blvd.  
Charlotte, NC 28273, USA

**60,000 sq. ft. (est. 2014)**



## CAPABILITY OF YG-1 AMERICA / US TECH CENTER

Tool Type	Material	Tool Size	End Type	Flute Type	Remark
<b>Endmill</b>	HSS M42 HSS-PM	Ø1/8 ~Ø50.8mm (2")	Square Corner Chamfer Corner Radius Ball Nose Corner Round Taper	Fine Pitch Roughing Coarse Roughing Roughing & Finish Finish	
	CARBIDE	Ø2.0mm ~ Ø25.4mm (1")	Taper Taper Ball Taper Neck	Constant/ Variable Helix	1) Customized Form Tool 2) Step End Mill
<b>Drill</b>	CARBIDE	Ø2.0mm ~ Ø25.4mm (1")	Conventional Corner Chamfer Flat Bottom Brad Point	Straight Spiral	1) With/Without Coolant Holes
<b>Step Drill</b>	CARBIDE	Ø2.0mm ~ Ø25.4mm (1")	Conventional Corner Chamfer Flat Bottom Brad Point Drill Reamer	Straight Spiral	1) 1 Step, 2 Step 2) With/Without Oil Holes 3) Customized Profile
<b>Engraving Tool</b>	CARBIDE	Ø2.0mm ~ Ø25.4mm (1")	Customized Point	Straight Spiral	1) Customized Profile
<b>Router</b>	CARBIDE	Ø2.0mm ~ Ø25.4mm (1")	No End Type Burr Type EndMill End Type Drill Point Type	Chip Breaker Type Compression Type Diamond Cut Type	1) For Composite Material
<b>Reamer</b>	CARBIDE	Ø2.0mm ~ Ø25.4mm (1")	Corner Chamfer	Straight Spiral	1) 1 Step, 2 Step 2) With/Without Oil Holes



### YG-1 and done.

For the best value in the world of special and reconditioned cutting tools, turn to your friends at YG-1.

YG-1 USA  
730 Corporate Woods Parkway  
Vernon Hills, IL 60061 U.S.A.

**Phone: 800-765-8665**  
**Technical Assistance: 888-868-5988**  
**yg1usa.com**