Custom-Made Toolholder Capabilities

Reduce Cycle Time and Increase your Productivity

Toolholder Customization Options for Your Specific Machining Application

- Add Multiple Counterbores, Countersinks, or Chamfer Inserts
- Create Special Shanks or Custom Diameters and Lengths
- Combine Multiple Operations
- Variations on Diameters and Lead Angles
- Full Specials Built to your Specifications
Kyocera Cutting Tools
Custom-Made Toolholders

Watch your **productivity and profits soar** with custom made tooling from Kyocera.

Our design engineers utilize the latest in 3-D solid modeling, CAM, CNC lathes, grinders and 3, 4 and 5 axis CNC machining centers to produce the highest quality special and custom-made tools.

Our custom drilling and milling tools will **reduce your cycle time** and increase your throughput by eliminating tool changes, reducing tool inventory, and combining processes.

**Contact a Kyocera Design Engineer to determine if a custom-made tool is right for your application!**

Kyocera Industrial Ceramics Corp
Cutting Tool Division - Custom Tools
ph 419-738-6652 x268 ■ fax 419-738-5969
www.kyocera.com/cuttingtools ■ customtools@kyocera.com

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**Variations of Diameters and Lead Angles**

Create Tools with a Custom Shank:

- CAT
- ABS*
- BT
- HSK
- Metric
- Special Diameters & Lengths

**Combinations Milling Cutter that Creates a Profile**

**Custom Back Facing Cutter**

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*ABS is a registered trademark of Komet Prazisionswerkzeuge Robert Breuning GmbH, which is not affiliated in any way with Kyocera or any other Federal Signal Companies.*
Kyocera custom-made tools, designed and built for your specific application, are as simple as modifications to standard product...

**Variations of Standard Toolholders**

- A 6.0” diameter Holeshot style drill with an 8” drilling depth and through coolant on a 2-1/2” shank.
- A 20mm diameter Magic drill with a countersink.
- A 1.50” diameter long edge mill with 4-1/2” LOC on a 1-1/2” shank using the polished APET inserts. This tool is 2 flute, 2 flute effective.

**to the most complex combination tools...**

**Custom-Made Combination Toolholders**

- A 3.553” diameter combination tool with standard and special cartridges on a CAT50 shank. This tool is coredrilling, counterboring, facing and chamfering.
- A 34.44mm diameter combination tool on a special threaded shank with facing and chamfer. This tool also utilizes a center insert to break up a thin cast web.
- A 1.625 dia. drill on an ABS80* shank with a countersink, counterbore and facing using through coolant.

**Customized Tool Ordering Procedure**

To request a quote for a custom tool, please follow the steps below:

1. Photocopy and fill out the Special Tool Design Form on page 4 of this brochure.
2. Email a scanned version or fax a hard copy of this form, along with any necessary prints and drawings to the Kyocera Custom Tools Department. Email: customtools@kyocera.com - Fax: 419-738-5969.
3. Call the Kyocera Custom Tools Department at 419-738-6652 x268 with any questions regarding the custom tool quotation procedure.
SPECIAL TOOL DESIGN WORKSHEET

DATE: ___________________________  

CUSTOMER INFORMATION

Company Name: ____________________________________________________________  
Contact: ________________________________________________________________  
Address: ________________________________________________________________  
City, State, Zip: __________________________________________________________  
Kyocera Distributor Name: ________________________________________________  

Phone: ___________________________  
Fax: _____________________________  
Email: ___________________________  

PART INFORMATION

Part Number or Description: ________________________________________________  
Material: ______________________________________________________________  
Hardness (Rc): __________________________________________________________  
Current problem or objective: _____________________________________________  

MACHINE INFORMATION

Machine being tooled: _____________________________________________________  
Machine condition, age: __________________________________________________  
Spindle Hp: ___________________________ Max RPM: ___________________________  
Max IPM: ___________________________  
Circle one of each: Horizontal or vertical spindle? Stationary or rotating tooling?  

TOOL INFORMATION

Describe the tool (drill, mill, combo tool?): ________________________________  
Quantity to quote: ___________________________ Shank size/description: __________  
Right or left hand cutting: _______________ Thru coolant? (and inlet type/location):  
Size or weight restrictions (if applicable): ____________________________________  

Prints and Drawings  Supplied information should include:
Finished part  Tolerance requirements, raw stock tolerances
Raw stock or casting  Surface finish requirements (witness lines ok?)
Fixturing  Depth(s) of cut
Special inserts, hardware, etc.  Fillets, inside corner radii (insert nose radii)
Process sheet  Allowable overtravel on thru cuts
Existing tooling  Amount of finish stock to leave