SPECIALS

There are some situations in which a standard tool just doesn’t fit the job. When a complicated application or other limitations are introduced, a custom tool can provide the unique capabilities required.

COMPLEX TOOLS

In some applications, the end result required for the job cannot physically be completed with a single, standard tool. Utilizing custom tools may provide the most effective solution.

EXAMPLE: Intersecting Form Tool
By dividing the required forms and applying them to alternating flutes, a customer can manufacture an inside corner with a zero radius. Without the use of the intersecting form tool, a perfectly sharp inside corner would be physically impossible to manufacture.

MODIFIED STANDARDS

Standard tools provide an immediate manufacturing solution. In some cases, the tool needed may be similar to a stocked tool, but requires some changes to improve efficiencies.

EXAMPLE: Modified Drill
By making small modifications to a standard drill, the modified tool can save machine time and reduce manufacturing costs. In addition, by converting the standard drill into a customized step drill, the lead time can be significantly less than if opting for a newly designed custom tool.

COMBINATION TOOLS

When several tools are blended into one, the resulting combination tool can complete all of the necessary tasks in one pass. By reducing the number of tools needed to complete the tasks, the number of variables and potential variances are reduced, allowing the combination tool to perform with greater precision and repeatability.

EXAMPLE: Combination Thread Mill and Counterbore
By combining several tools used in a work station, a single tool can complete multiple tasks. Not only does this make room for other tools in the work station, but it reduces the number of tool changes to complete the same work. Additionally, the total cost difference between a single combination tool vs. multiple tools can reduce the overall tool costs by 20-30%.
ORDERING CUSTOM TOOLS

The process to get exactly the right tool you need does not have to be complicated. Using our Custom Tool Design Service, your specifications can turn into a working tool within two weeks of receiving a purchase order.

Custom variables can include:

• Tool Type
• Cutter Diameter
• Length of Cut
• Shank Diameter
• Overall Length
• Extended Reach
• Number of Flutes
• Included Angle
• Thread Size
• Pitch
• Max Depth of Thread
• Work Piece Material
• Radius
• Neck Diameter
• Coating

For more information on the types of tools that MITGI can produce, see page 55.

Custom tools can be manufactured from an existing design or created using our in-house design service. Within two weeks of approval print and receipt of a purchase order, we can have the custom tool in your hands and ready for use. To make re-ordering easier, we'll keep detailed notes on each custom order so that we're always ready to manufacture the tool to the exact same specifications.

Tips for Ordering Specials

When ordering custom tools, consider the following:

• Would you like to test the tool before placing a large order? Consider our Approval Based Sample Program. See page 107 for more info.

• Want to reduce the per tool price? Ordering in larger quantities will help to lower the per tool price. Blanket POs and stocking options allow us to build larger quantities and gives you the ability to schedule appropriate delivery dates. Ask for more info on our stocking options.

• Concerned about long lead times? MITGI specials can be manufactured within two weeks of the order. See page 45 for more info.