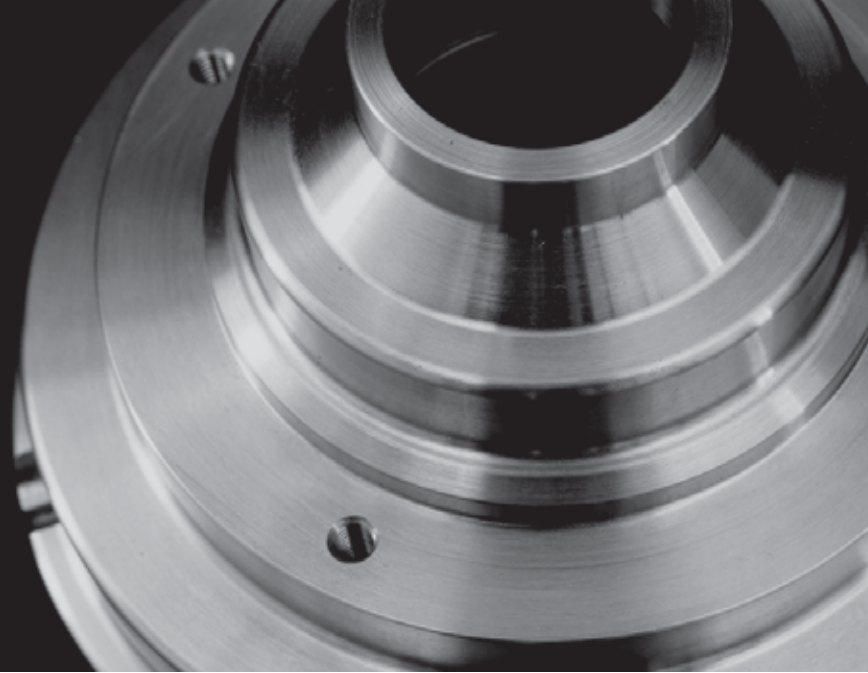


M & E PRODUCTS

TECHNICALLY CHALLENGING PARTS MADE TO VERY TIGHT TOLERANCES



M&E Products specializes in the production of tight tolerance often complex parts that many other machining companies are unable to produce.

LARGE COMPLEX RINGS

Our machinists are especially skilled in the machining of up to 16" OD rings with critical ID and OD dimensions that have significant amounts of material to be removed through milling. These parts can be very sensitive to flexion which require a final turning operation post milling.

The most critical dimensions are:
OD: 15.025"; Tolerance: +0.001"/-0.001"
ID: 10.875"; Tolerance: +/-0.0005"

The large complex ring components we produce typically contain multiple bolt holes with tapping that require critical hole locations with +/-0.0005" tolerances.



COMPLEX TIGHT TOLERANCE SHAFT

M&E's is a leading expert at producing <2.00" OD shafts with complex geometry that include critical dimensions for diameters and keyways. The shafts we machine typically have up to 10 diameters and grooves. Material is typically 4340 or 4140 bar stock. The component pictured is machined on M&E's new Haas ST-20Y Lathe with sub-spindle and Y axis.

There are multiple tight tolerance dimensions in such parts as follows:
OD: 1.376"; Tolerance: +0.0005"; -0.0005"
Keyway: 0.251" wide; Tolerance: +/- 0.001"



BRASS COVER FOR PROPANE DISPENSING AND MEASURING DEVICE

M&E is also experienced in dealing with many different material types. For one key customer, M&E machines a brass cover for a propane gas measuring device. In production, the brass casting expands during machining so allowance must be made to ensure the correct dimension is achieved after the part cools and contracts. This part has to be held in a special fixture under very light pressure to make sure that no stresses are set up and that the part does not flex.

The most critical dimensions are:

OD: 4.6500; Tolerance: +0.0003"/-0.0002"

ID: 1.2193; Tolerance +/-0.0005"

Flatness across face of fully machined side: Tolerance +0.0005"/-0.0005"



THIN WALLED SPACER RING

M&E specializes in machining high tolerance components for gear systems. Our experienced machinists exhibit their capabilities by producing over 300 different industrial components. The pictured thin walled spacer ring is just one example of a mission critical component that M&E regularly produces.

The most critical dimensions are:

Wall thickness: 0.125"

OD: 7.500"; Tolerance: +0.001"/- 0.001"

ID: 7.25", Tolerance: +0.001"/-0.001"

Surface finish at: 13-18

The parts are produced by using special fixtures to apply minimal pressure and distortion to the ring during machining. Surface finish is critical and is achieved using a technique that has been perfected by M&E's skilled machinists.



M & E PRODUCTS

SALES CONTACT INFORMATION

Garnett Component Sales, Inc.
Artie Smith-NC, SC, VA Sales Mgr. | 919-475-4775
Mark Snyder-AL, GA, FL Sales Mgr. | 678-699-9152

M&E CONTACT INFORMATION

PO Box 37, Simpsonville SC 29681
www.mandeproducts.com
704-724-8740