

# MEASUREMENT AND INSPECTION SERVICES

MACTECH PORTABLE MACHINING SOLUTIONS

## Accurate and Cost Effective Measurement and Inspection Services

**Mactech On-site Machining Solutions** now offers a cost effective and time-saving solution to your measurement, positioning and inspection challenges. Our measurement and inspection services team can develop a personalized plan providing you with traceable measurement results; from go/ no-go indications, to comprehensive reports, to CAD data of the measurements. The Laser Tracker Coordinate Measuring System provides fast, extremely accurate and reliable data for machining, machine set-up, welding, alignment and inspection. The Laser Tracker is far more accurate and time-saving compared to conventional methods, such as tape measures, alignment wire and sag charts, plumb-bobs and theodolites. Coupled with Mactech's on-site machining services, our measurement and inspection services give you the most comprehensive solutions to your toughest challenges. Call us today for a consultation with our metrology department, who will design a cost effective and timely solution for your applications.



**Laser Tracker Coordinate Measuring System**

### Industries:

- **Aerospace**
- **Automotive**
- **Machine Shops**
- **Manufacturing**
- **Paper Mills**
- **Power Generation**
- **Sawmills**
- **Shipyards**
- **Test Facilities**
- **Wind Tunnels**

### Laser Measurement Capabilities

Volumetric Accuracy	+/- 0.001 inch@33 ft
	+/- 0.0254mm@10m
Range	180 ft
	55m
Built-in Level Accuracy	+/- 2 arc seconds
	+/- 0.00056 degrees

### Capabilities

- **Bore measurement and alignment**
- **Taper measurement and alignment**
- **Portable machining equipment alignment**
- **Machine leveling and installation**
- **Machine assembly**
- **Multiple set-up machining alignment**
- **Machine calibration**
- **CAD to part inspection**
- **Quality Assurance**

**MACTECH**  
ON-SITE MACHINING SOLUTIONS

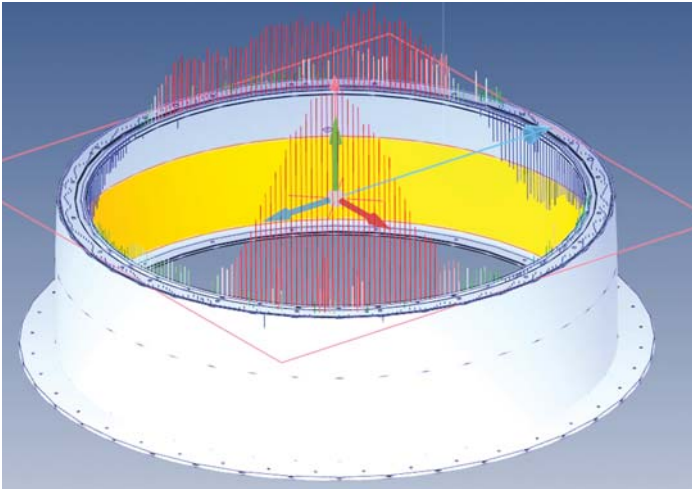
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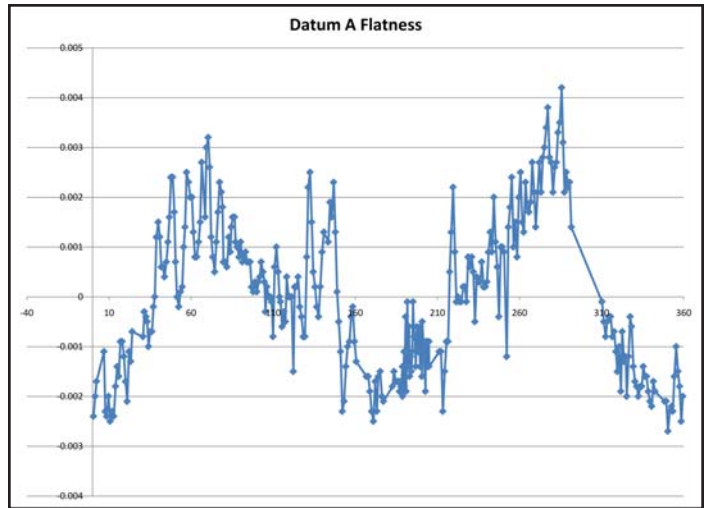
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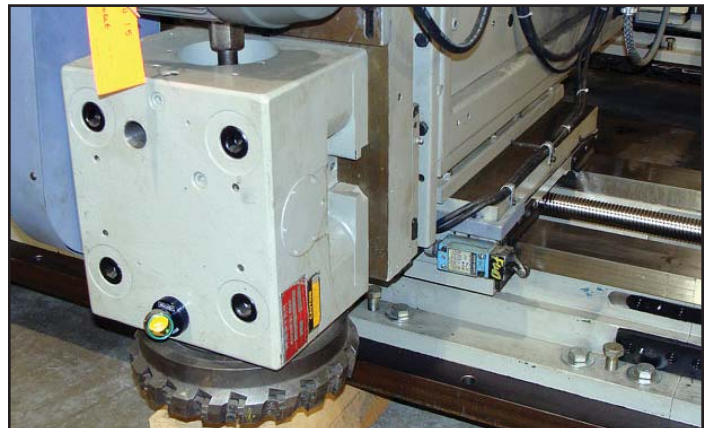
**Inspection Model**



*You will receive detailed measurement and inspection reports showing pre- and post-operation conditions. We can also provide data to confirm existing conditions and monitor the part during in-process operations. All reports and documentation are customized to your specific requirements.*



**Laser Tracker Bore Inspection**



**Laser Tracker Target mounted on Mactech's Master Mill for precision machining**

## Applications:

- Rudder bores
- Stern and strut tube bores
- Sole plates
- Pump and motor bases
- Large weldments
- Pipe alignment

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