



Helping industry measure up!

## LASER CALIBRATION SERVICES

June 2015

### Equipment:

- ◇ Renishaw XL –80 Laser Interferometer:
  - Linear optics
  - Angular optics
  - Straightness optics
- ◇ Renishaw XR-20W Wireless Rotary Calibrator
- ◇ Renishaw QC-10 Ballbar

### Rates:

- ◇ Flat rate quotes available for specific services.
- ◇ General Laser and Ball bar inspection and reporting.
  - Hourly Labor rate: \$150.00 per hour (minimum 4 hours)
  - Travel: \$75.00 per hour drive time + expenses.

*Our Measurement Technicians work with the end user helping them understand the entire measurement process. We have specialized in Heidenhain position encoders since our first day in business and have a comprehensive understanding of most machine tool servo systems. Through the use of our measurement equipment we can help identify major and minor machine issues and limitations.*



Renishaw XL-80 Interferometer on a small horizontal Mill

### Facts:

- The ASME standard is 20 degrees Celsius or 68 degrees Fahrenheit.
- Workspaces can be compensated based on Machine, Part or without Thermal Expansion calculations.
- Less than a degree change can affect the dynamics of your machine.