The Mechanical Calibration team, as part of Primary Standards Laboratory (PSL), performs calibrations of secondary reference standards, gages, fixtures, and measurement and test equipment (M&TE). The team also provides technical support for both dimensional measurement (i.e. inspection) and geometric dimensioning and tolerancing (GD&T).

**Capabilities**

Calibration capabilities include, but are not limited to, acceptance gages, production fixtures, gage blocks, torque wrenches, coordinate measuring machines (CMMs), video measuring systems, optical comparators, analytical balances, scales, weights (i.e. mass), surface roughness, surface topography, hardness testing, and assorted hand tools, including micrometers, calipers, and thread gages.

**Resources**

- Zeiss Prismo Ultra CMM
  - Tactile and Video Sensors
- OGP APEX Video Measuring System
  - Video and Laser Sensors
- Taylor Hobson Talyrond 365 High-Precision Roundness/Cylindricity System
- Mahr 828 CiM Universal 1D Length Measuring System
  - Up to 1 meter length
- Mahr XC Surface Finish and Surface Topography System
- Mahr Focodyn Non-Contact Surface Topography System
- Mahr Gage Block Comparators
- Federal Levels
- Hewlett Packard and API Metrology Lasers
- Mettler Mass Comparators

**Video Measuring System**

Measurement services include inspection and reverse engineering.
Gage Block Calibration

Form Tester

CMM

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