

Exceptional service in the national interest



Equipment Update / SNL NM

May 18th – 22nd, 2015

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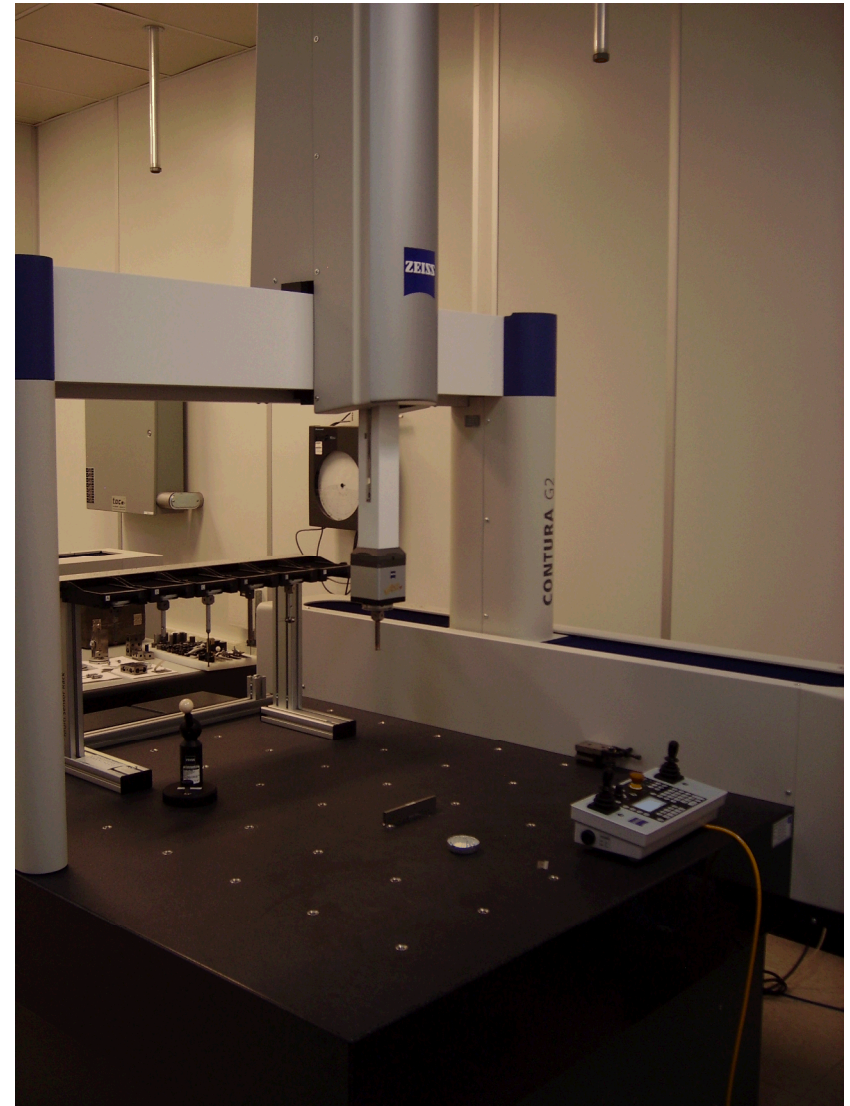
Equipment Update

- The items presented, with specifications, were acquired by the SNL Manufacturing Liaison group or the PSL Mechanical Calibration group

Coordinate Measuring Machines

Manufacturing Liaison Group

- Zeiss Contura G2
- Work Area
 - X = 1000 mm
 - Y = 1200 MM
 - Z = 600 mm
- Specifications
 - MPE(I)
 - $1.9 \mu\text{m} + (L/300)\mu\text{m}$



Coordinate Measuring Machines

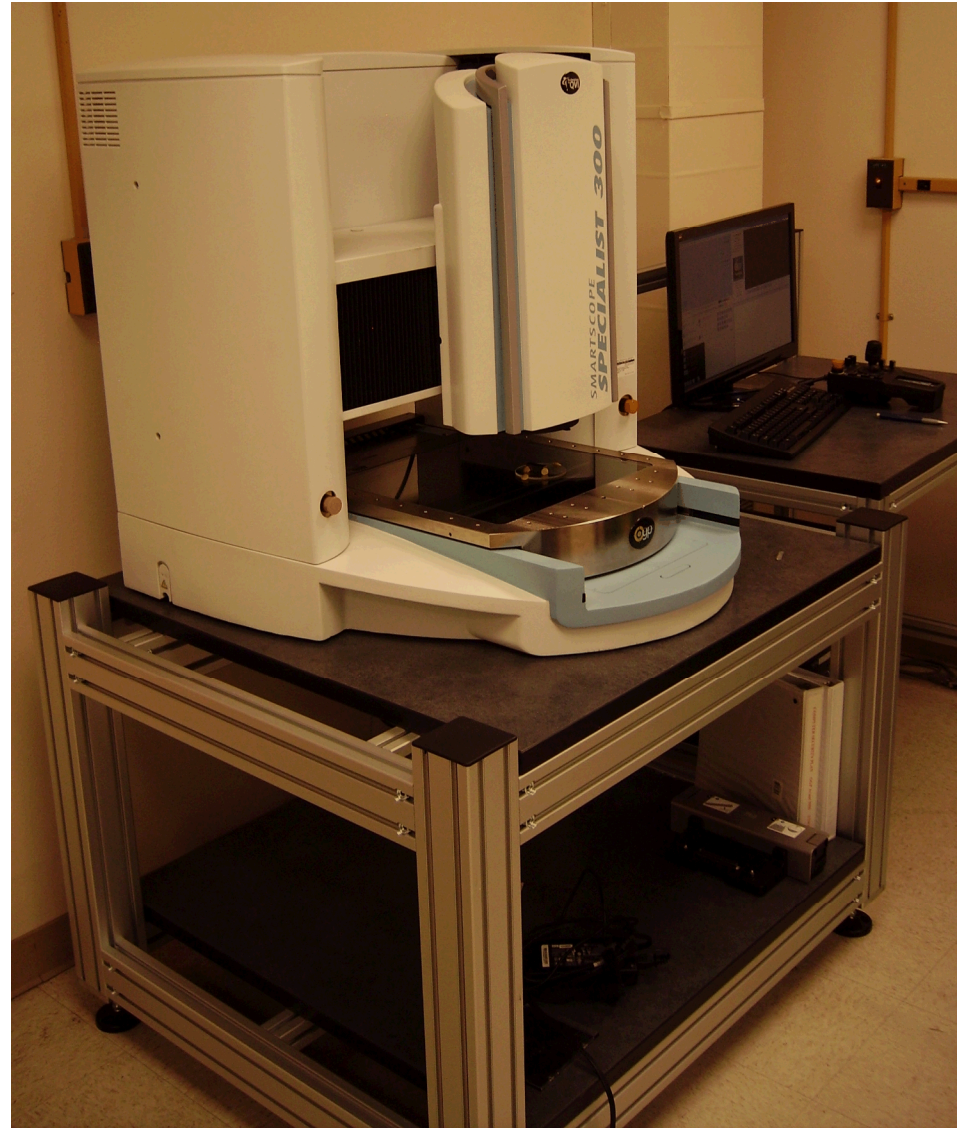
Manufacturing Liaison Group

- Zeiss Micura
- Work Area
 - X, Y & Z
 - 500 mm
- Specifications
 - MPE(I)
 - $0.7 \mu\text{m} + (L/400)\mu\text{m}$



Video Measuring System Manufacturing Liaison

- Optical Gaging Products (OGP) – SmartScope Specialist 300
- XYZ Stage Travel: 300 x 300 x 250 mm
- XY Accuracy: $(1.5 + 5L/1000) \mu\text{m}$
- Z Accuracy: up to $(1.5 + 5L/1000) \mu\text{m}$
- Equipped with through-the-lens laser



Laser Tracker

Manufacturing Liaison

- Faro
- Software
 - Spatial Analyzer
- 160m (525 ft.) spherical working volume
- Accuracy up to 0.015mm (0.0006 in.)

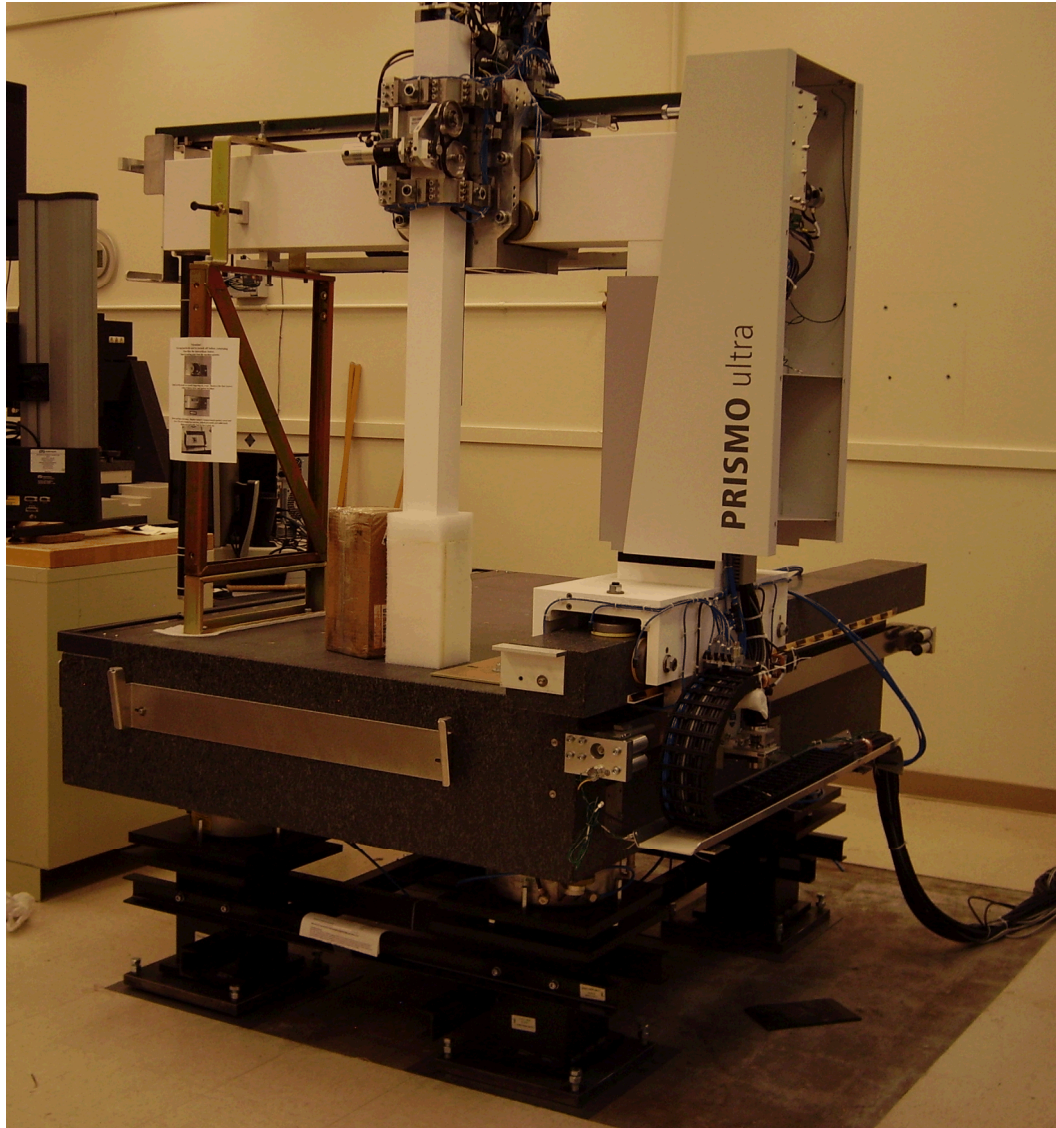


Coordinate Measuring Machine Mechanical Calibration

- Zeiss Prismo Ultra 9/13/7
- Measuring Range
 - X = 900 mm
 - Y = 1300 mm
 - Z = 650 mm
- Specifications
 - VAST Prismo Navigator Probe Head
 - $MPE(I) = 0.4 \mu m + (L/500)\mu m$
 - Air Bearing Rotary Table
 - RDS Articulating Probe with VAST XXT Scanning Head
 - ViScan Optical Probe



CMM Spotted – Waiting for Calibration



CMM Installation / April 2015 – Off Loading



CMM Installation – Entry Issues



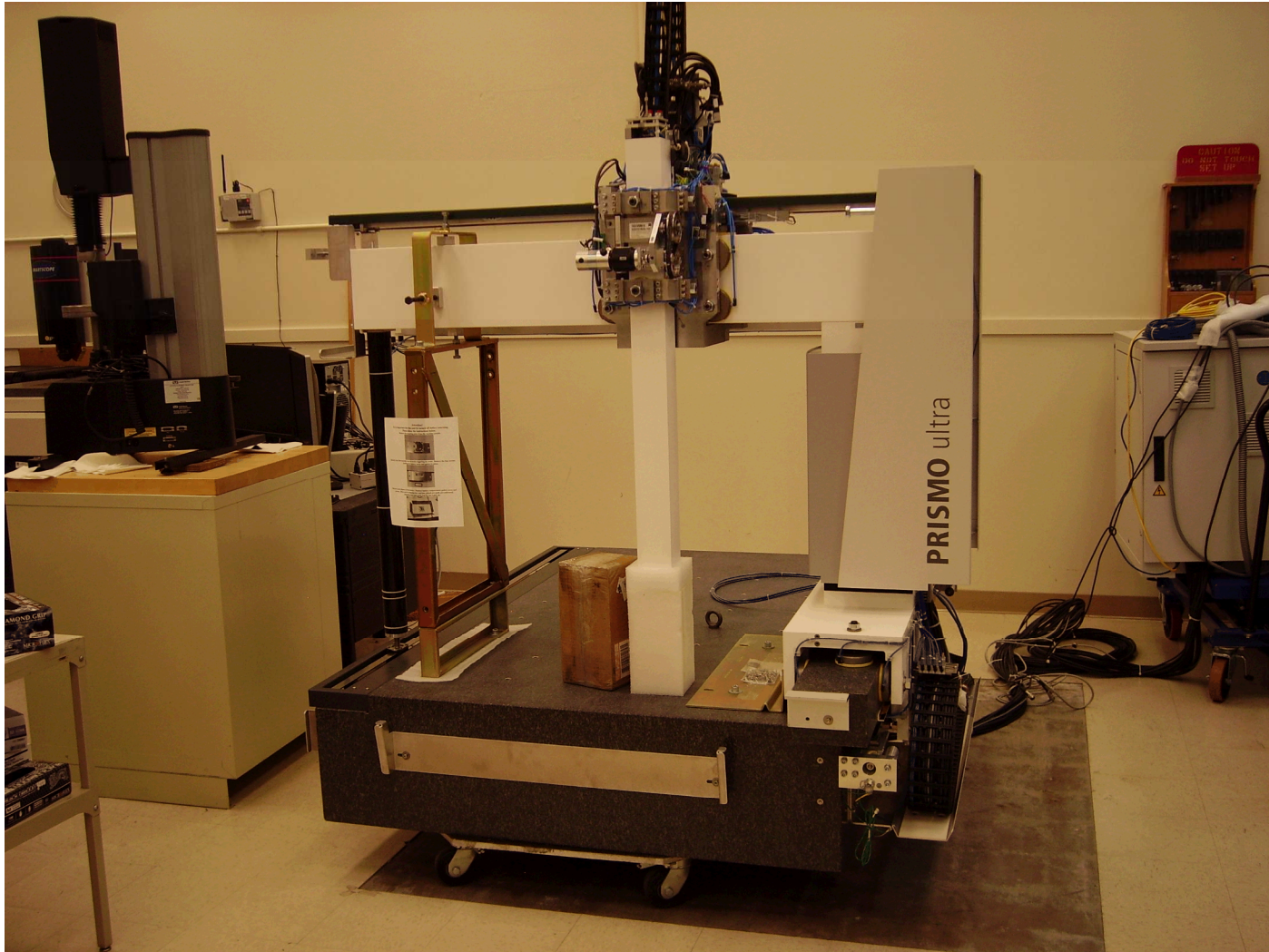
CMM Installation – Entry Issues



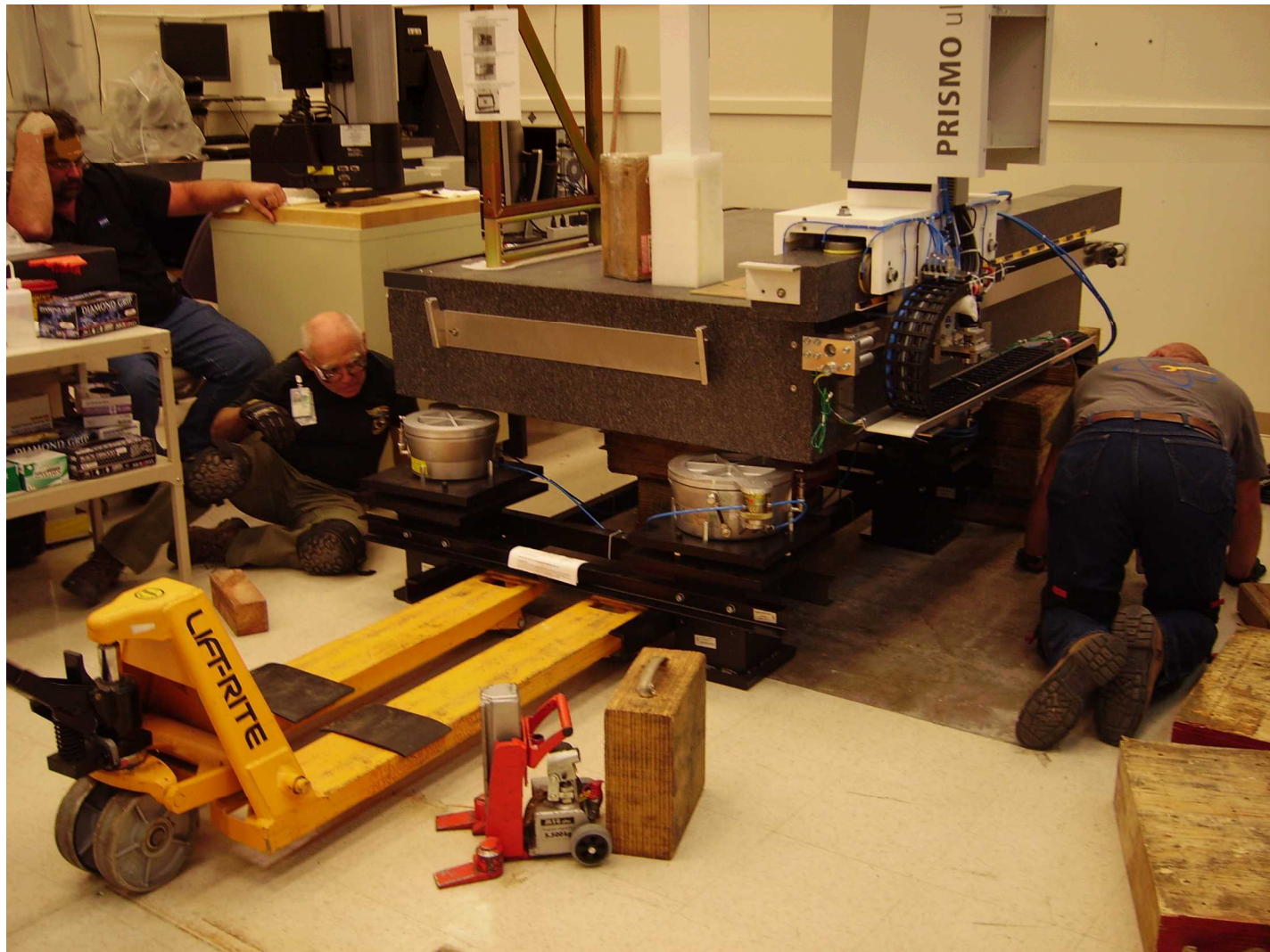
CMM Installation – Entry Issues



CMM Installation – Spotted Minus Base



CMM Installation – Raising to Install Base



Questions?