



## Ultra Precise Machine Centers

CiDRA® Precision Services, LLC uses state-of-the-art machine centers to manufacture products to customers exacting requirements. This brochure provides a glimpse into the equipment in our production facilities. We have many other custom and off-the-shelf machines, and continue to invest in new equipment and capabilities so we can maintain our world class services.

### Precision CNC 4 Axis Slicing to +/-1um

- MTI NSS-612 & MTI NSS-816 4 Axis Nano Slicing Systems
  - 360x vision system
  - Industrial scale sizes and thicknesses

### Precision Centerless Grinding to +/-1um

- Agathon 150-SL CNCs & 150-SL CNC fitted with a Custom CNC Crush Roll Dresser
- General E226 Truing Machine for Dressing Bonded Diamond Wheels
  - CNC axis crush roll dresser programmable to 0.1um
  - Plunge grind, concentric grind, through feed grind
  - Perfect for hard materials



### Precision Flat Polishing to 0.003Ra um

- Strasbaugh Two Spindle Polishing Machines (Model 6DA-DC-2)
- Strasbaugh One Spindle Polishing Machines (Model 6DE-DC-1)

### High Speed CNC Milling & Drilling

- Fanuc Robodrills (Model T14iBL & T21i-EL)
  - Contoured forms in hard materials
  - 14 bit tool changer



### Precision Surface Grinding to +/-1um

- Okamoto Surface Grinder (Model VG101MKIIL)
  - CNC controlled continuous downfeed grinding method
  - Ultra precision thickness, flatness, parallelism and micro-finishes
  - Auto measure and compensation feedback

### Sub-micron Inspection

- Z-Mike 1210 Series Laser Bench Micrometers
- OGP SmartScopes (Model Zip 250)
- OGP Optical Comparitor (Model QL-30)
- Zygo NewView 5000 (Model 5032)
- Bendix Indi-Ron (Model IR-2)

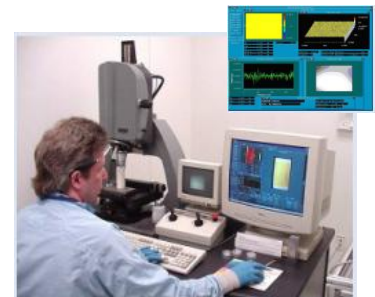


### Cleaning

- Branson Custom Ultrasonic Aqueous Cleaning System (Model No. 427081)
- PVA TePla Plasma Cleaner (Model M4L)
- Yamato Vacuum Oven (Model DP 43)

### Internal Tool Making

- Grinders
- Milling Machines
- Lathes



For more information about CiDRA® Precision Services, LLC and to discuss your application, contact Customer Services at (203) 774-4422.

