

Moore Nanotech® 250UPL Ultra-Precision Diamond Turning Lathe (Configurable as a 2, 3, or 4 axis machine)

Machine Features

- PC based CNC motion controller with Windows operating system and **1.0 nanometer (0.04μ") programming resolution**
- Laser holographic linear scale feedback system with **34 picometer (0.034 nanometer) resolution**
- Natural granite machine base mounted on passive air isolation system
- Box-way hydrostatic oil bearing slideways with 2,000,000 lbs./in. stiffness (350N/μm)
- Linear motor drives for rapid cycle times, improved surface quality, and minimal maintenance
- 10,000 rpm "heavy-duty" air bearing workspindle (with liquid cooling option)
- Swing capacity: 10" diameter (250mm), X & Z slide travel: 8" (200mm)
- Compact footprint (51" x 51")
- *Options* include vertical Y-Axis, rotary B-Axis, C-Axis positioning control of the workspindle, micro-grinding and micro-milling attachments, Fast Tool Servo system, optical tool set station, spraymist coolant system, vacuum chuck, micro-height adjust tool holders, Aspheric Part Programming Software (APPS), and on-machine measurement & Workpiece Error Compensation System (WECS)



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