

Moore Nanotech® 450UPL

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**
- Thermally insensitive linear scale feedback system with **34 picometer (0.034 nanometer) resolution**
- Monolithic epoxy-granite composite base provides superb thermal stability, and excellent damping characteristics
- Box-way hydrostatic oil bearing slideways provide smooth, stiff, and well damped linear motions
- 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: 18" diameter (450mm), X slide travel: 14" (350mm), Z slide travel: 12" (300mm)
- *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), on-machine measurement & Workpiece Error Compensation System (WECS), and air shower temperature control system



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