

moore tool company

The Moore Tool Company, a leader in precision machine tool design and manufacture, produces a complete line of jig grinding machines and accessories.

In addition, Moore remanufactures older jig grinders to include full CNC control and new machine capabilities. Tailored to your requirements, we provide a full mechanical rebuild of spindles, housing, and way systems to the guaranteed tolerances of a new machine.

Features

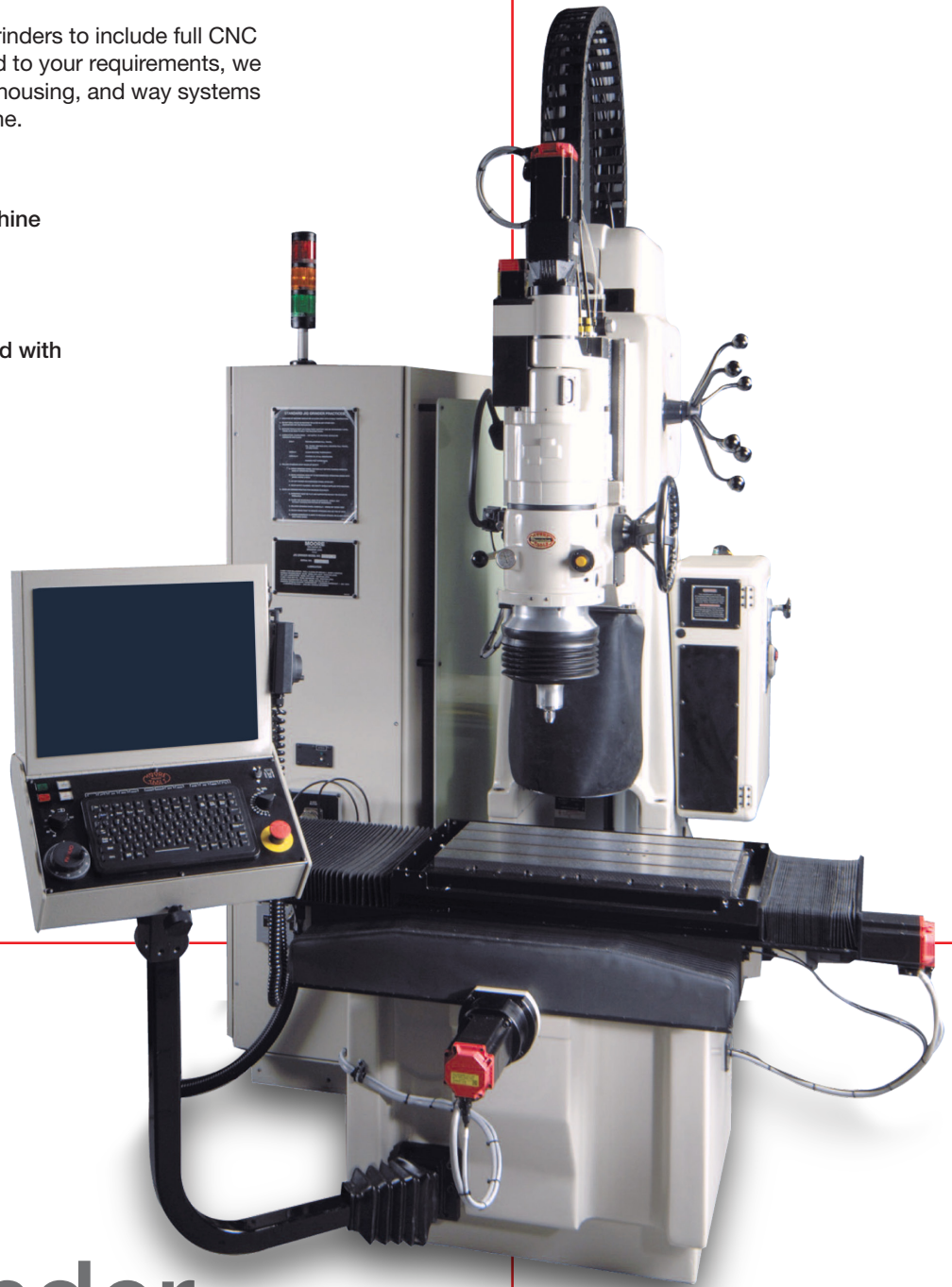
- Systems remanufactured to original machine performance specifications
- Full CNC control with continuous path contouring capability
- Fanuc multi-axis control and PC front-end with customized touchscreen user interface
- Remanufacturing performed in Moore facility

Standard Options

- Standard packages available for most Moore models
- Moore AutoSize® and Moore AutoGrind
- Optional fifth-axis rotary table

Moore Guarantee

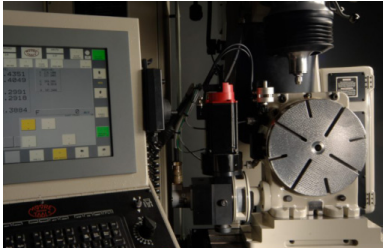
- One year guarantee on geometric and positioning accuracy
- Local service and support through Moore certified technicians



Jig Grinder

Remanufactured 450 CP

specifications



Optional fifth-axis rotary table

Capacity	
Table working surface	280 mm x 610 mm (11.0 x 24.0 in.)
Travel (X Axis)	450 mm (18.0 in.)
Travel (Y Axis)	280 mm (11.0 in.)
Table top to wheel collet (std. 40K grinding head)	50 mm to 450 mm (2.0 to 18.0 in.)
Spindle housing vertical travel	320 mm (12.625 in.)
Vertical slide travel	89 mm (3.5 in.)
Taper adjustment range	0 to 1.5° from centerline (3° included angle over full vertical travel.)
Grinding hole diameter range	0,4 to 127 mm (0.016 to 5.0 in.); or to 343 mm (13.5 in.) with optional extension plates

Speeds and Feeds	
Traverse speed: X & Y axes	1,500 mm/min. (60.0 in./min.)
Spindle speeds (planetary mode)	2 to 300 rpm
Air turbine grinding spindle speeds	6,000 to 175,000 rpm
Reciprocation stroke rate (25,4 mm / 1 in.)	2 to 175 cycles/min.

Accuracy*	
Positioning Accuracy: Step Gauge	
Deviation in full travel: X & Y axes	2,3 µm (90 µin.)
Positioning Accuracy: VDI/DGQ 3441	
Positional uncertainty P: X axis	3,0 µm (120 µin.)
Positional uncertainty P: Y axis	3,0 µm (120 µin.)
Positional deviation Pa: X axis	2,5 µm (100 µin.)
Positional deviation Pa: Y axis	2,5 µm (100 µin.)
Contouring Accuracy	
X, Y & C at 250 mm/min., measuring a 200 mm (8 in.) ring gauge	3,0 µm (120 µin.)
Geometric: Squareness (Full Travel)	
X-axis table to Y-axis cross slide	1,0 µm (40 µin.)
Spindle housing travel: X-Y plane	2,3 µm (90 µin.)
Geometric: Alignment (Full Travel)	
Total spindle travel: Parallelism of spindle centerline to column guideways	2,3 µm (90 µin.)

(All statements concerning accuracy are based on calibration temperature of 20 +/- 0.5 degrees C [68 +/- 1.0 degrees F])

**Accuracies guaranteed with complete remanufacturing only*



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