

jig grinders

jig grinder retrofits

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 can retrofit, remanufacture and/or convert your old jig grinder to include full CNC control and new machine capabilities.

features

- Systems remanufactured to original machine performance specifications
- Full CNC control with continuous path control contouring capability
- GE Fanuc 16i multi-axis CNC

productivity options

- Four-axis CNC with optional fifth-axis rotary table
- Standard packages available for all Moore models
- Modular packages engineered for efficiency and speed
- Control replacements performed in your factory
- Remanufacturing and retrofitting performed in Moore facility



specifications

Capacity

Table working surface	11.0 x 24.0 in. (280 mm x 610 mm)
Travel X longitude	18.0 in. (450 mm)
Travel Y cross	11.0 in. (280 mm)
Table top to wheel collet	2.0 to 18.0 in. (50 mm to 450 mm)
Spindle housing travel	12.625 in. (320 mm)
Quill travel Z vertical	3.5 in. (89 mm)
Spindle angular adjustment	+/- 1.5 degrees
Grinding hole diameter range	.016 to 5 in. (0,4 mm to 127 mm)

Speeds and feeds

Traverse speed: X & Y axes	60 in./min. (1,500 mm/min.)
Main spindle range	2 to 300 rpm
Grinding wheel with air & electric heads	6,000 to 175,000 rpm
Reciprocation @ 25 mm stroke length – original	2 to 120 cycles/min.
Reciprocation @ 25 mm stroke length – high speed option	2 to 175 cycles/min.

Accuracy

Positioning: Step Gage*

Deviation in full travel: X & Y axes	90 μ m. (2,3 μ m)
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Positioning: VDI/DGQ 3441*

Positional uncertainty P: X axis	120 μ m. (3,0 μ m)
Positional uncertainty P: Y axis	120 μ m. (3,0 μ m)
Positional deviation Pa: X axis	100 μ m. (2,5 μ m)
Positional deviation Pa: Y axis	100 μ m. (2,5 μ m)

Contouring*

X, Y & C at 250 mm/min., measuring a 200 mm (8 inch) ring gage	120 μ m. (3,0 μ m)
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Geometric: Squareness*

Full travel: X to Y axes	40 μ m. (1,0 μ m)
Spindle housing travel: X-Y plane	90 μ m. (2,3 μ m)

Geometric: Alignment*

Total spindle travel: Parallelism of spindle centerline to column guideways	90 μ m. (2,3 μ m)
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(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*



Moore Tool Company, Inc.
800 Union Avenue
Bridgeport, CT 06607-0088
USA
Phone 203 366 3224
Fax 203 367 0418
www.mooretool.com
e-mail sales@mooretool.com

Moore Special Tool AG
Hohlstrasse 608
8048 Zurich
Switzerland
Phone +41 1 438 5030
Fax +41 1 438 5040
www.mooretool.com
e-mail sales@mooretool.ch

Moore Nanotechnology Systems LLC
426A Winchester Street
Keene, NH 03431-0605
USA
Phone 603 352 3030
Fax 603 357 3363
www.nanotechsys.com
e-mail sales@nanotechsys.com