

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.

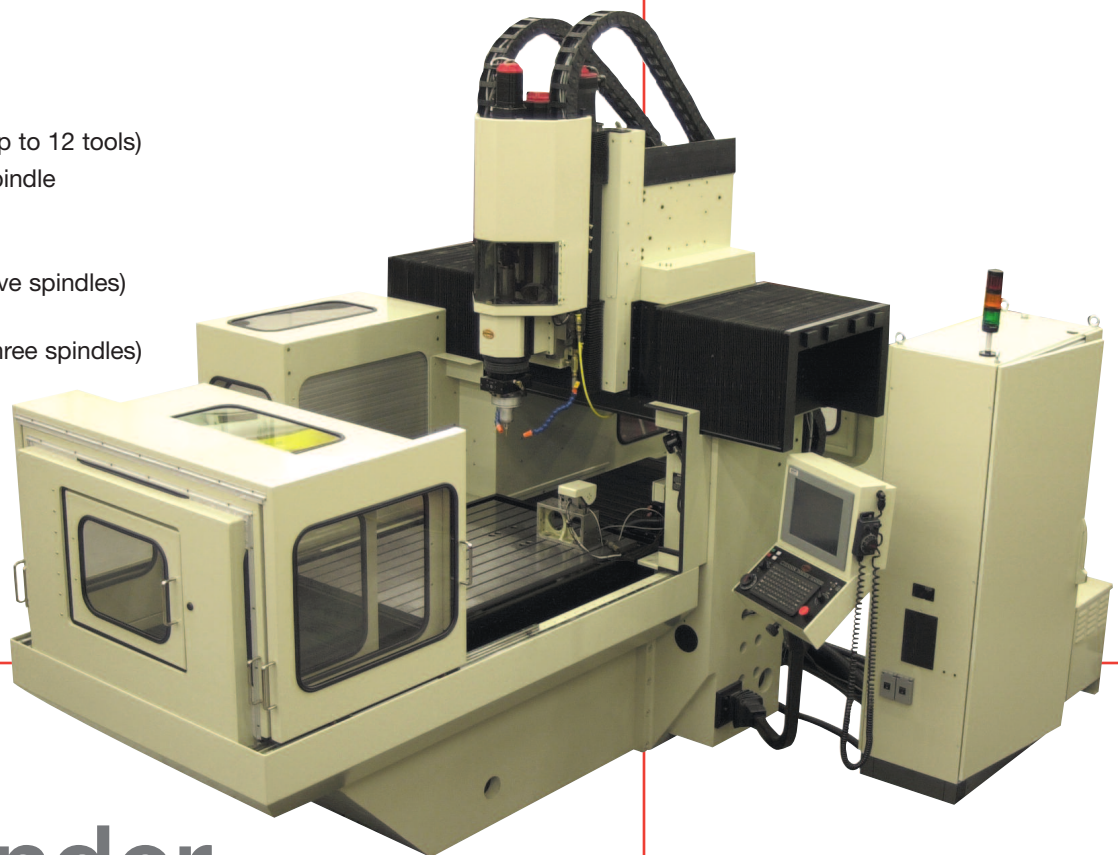
The 1280 is available in two models (CPZ and CPWZ) to address your specific ultra-precision requirements. These four- or five-axis, CNC-controlled jig grinding machines have continuous path contouring capability for complex two- and three-dimensional operations.

Features

- Large travels for large work or multiple part setups
- Programmable spindle housing positioning system
- GE Fanuc multi-axis CNC with customized touch screen-display

Productivity options

- Moore Autosize®
- Moore Autogrind
- Automatic tool changer (up to 12 tools)
- Automatic tool changer spindle
- Flood coolant system
- Air spindles:
 - 9,000 to 175,000 rpm (five spindles)
- Electric spindles:
 - 15,000 to 80,000 rpm (three spindles)
- Machine enclosure
- Optional rotary table
- Fire suppression system
- Vapor extraction system



Jig Grinder

1280 Series

specifications

1280 Series

CPZ and CPWZ

Capacity

Table working surface	32.0 x 48.0 in. (812 mm x 1219 mm)
Inside distance between risers	38.0 in. (965 mm)
Tabletop to bottom of bridge	20.5 in. (520 mm)
Travel X longitude	48.0 in. (1220 mm)
Travel Y cross	32.0 in. (812 mm)
Table top to U axis slide	10.5 to 30.9 in. (267 mm to 785 mm)
Spindle housing travel	12.5 in. (320 mm)
Quill travel Z vertical	5.5 in. (140 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	80.0 in./min. (2.000 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	2 to 190 cycles/min.

Accuracy

Positioning: Step Gauge

Deviation in full travel: X & Y axes	100.0 μ in. (2.5 μ m)
Deviation in full travel: Y axis	80.0 μ in. (2.0 μ m)

Positioning: VDI/DGQ 3441

Positional uncertainty P: X axis	100.0 μ in. (2.5 μ m)
Positional uncertainty P: W & Y axes	80.0 μ in. (2.0 μ m)
Positional uncertainty P: Z axis	160.0 μ in. (4.0 μ m)
Positional deviation Pa: W, X & Y axes	60.0 μ in. (1.5 μ m)
Positional deviation Pa: Z axis	120.0 μ in. (3.0 μ m)

Contouring

X, Y & C at 250 mm/min., measuring a 200 mm (8 in.) ring gauge	120.0 μ in. (3.0 μ m)
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Geometric: Squareness

Full travel: X to Y axes	60.0 μ in. (1.5 μ m)
Spindle housing travel: X-Y plane	120.0 μ in. (3.0 μ m)

Geometric: Alignment

Total spindle travel: Parallelism of spindle centerline to column guideways	90.0 μ in. (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])



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