

jig grinders

1200 series jig grinder

The Moore Tool Company, a leader in precision machine tool design and manufacture, produces a complete line of jig grinding machines and accessories. The 1200 is available in three models (CP, CPZ and CPW) to address your specific high-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 16i multi-axis CNC

productivity options

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



specifications

Capacity

Table working surface	24.0 x 48.0 in. (610 mm x 1220 mm)	
Travel X longitude	48.0 in. (1220 mm)	
Travel Y cross	24.0 in. (610 mm)	
Table top to wheel collet	6.0 to 24.5 in. (150 mm to 620 mm)	
Spindle housing travel	13.0 in. (330 mm)	
Quill travel (Z) vertical	CP & CPW: 5.1 in. (127 mm)	CPZ: 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	60 in./min. 1,500 mm/min.	
Main spindle range	2 to 300 rpm	
Grinding wheel with air and electric heads	6,000 to 175,000 rpm	
Reciprocation @ 25 mm stroke length	CP & CPW: 2 to 160 cycles/min.	CPZ: 2 to 190 cycles/min.

Accuracy

Positioning: Step Gage

Deviation in full travel: X axis	100 μ m. (2,5 μ m)
Deviation in full travel: Y axis	80 μ m. (2,0 μ m)

Positioning: VDI/DGQ 3441

Positional uncertainty P: X axis	100 μ m. (2,5 μ m)
Positional uncertainty P: W & Y axes	80 μ m. (2,0 μ m)
Positional uncertainty P: Z axis	160 μ m. (4,0 μ m)
Positional deviation Pa: W, X & Y axes	60 μ m. (1,5 μ m)
Positional deviation Pa: Z axis	120 μ m. (3,0 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	60 μ m. (1,5 μ m)
Spindle housing travel: X-Y plane	120 μ m. (3,0 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])



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