

Vertical Honing Machine for Precision Bores

This vertical honing machine is designed for precision honing of engine components. It features hydraulic reciprocation and handwheel feed control, achieving high accuracy in cylinder block, liner, and hydraulic cylinder bores.



ADDITIONAL IMAGES



Overview

Precision Vertical Honing Machine

This vertical honing machine is engineered for high-precision finishing of various engine components, including cylinder blocks, cylinder liners, and hydraulic cylinder bores. It features a robust yet simple design that ensures easy operation while maintaining exceptional working accuracy. With advanced hydraulic drive systems for the honing head and precise manual feed control, it delivers superior surface finishes and tight roundness tolerances, making it an essential tool for precision bore machining.

Performance Metrics

Machining Capabilities

0.0025 mm

Roundness Accuracy

0.4 Ra

Surface Finish

400 mm

Max Honing Depth

Operating Parameters

- Honing Diameter Range: 30-150mm
- Spindle Reciprocation Speed: 3-18 m/min
- Hydraulic System Max Pressure: 25 bar
- Spindle Speeds: 4-step adjustable (112, 140, 160, 200 r/min)

Technical Specifications

Machine Dimensions & Weight

Parameter	Value
Overall Dimensions (LxWxH)	1220 x 1680 x 2673 mm
Net Weight	2500 kg
Gross Weight	3500 kg
Worktable Surface Size	480 x 1100 mm
Worktable Height	470 mm

Power & Motor Specs

- 2.2
- 2.2
- 0.125

Motor Details

Spindle Rotation Motor: 2.2 kW, Hydraulic Pump Motor: 2.2 kW, Coolant Pump Motor: 0.125 kW

Tooling

Honing Tooling Compatibility

Honing Diameter Range	Stone Size	Series
30-35 mm	5x6x63	MT30
35-41 mm	5x7x80	MT35
41-50 mm	7x6x80	MT41
50-70 mm	8x9x80	MT70
70-90 mm	8x9x100	MT90
90-122 mm	10x12x120	MT122
122-150 mm	13x13x150	MT150