

# Precision Surface Grinding Machine

This precision surface grinding machine is designed to achieve superior flatness and finish on metallic workpieces. Its robust construction includes a vertically mounted grinding wheel and a horizontally reciprocating table.



## ADDITIONAL IMAGES



## Machine Overview

### Precision Surface Grinding Machine

This high-precision grinding machine is engineered for surface and shaping operations, ideal for small workshops handling batch or single-piece production. Featuring a robust steel-inlaid guiderail column and a high-stability grinding head, it delivers exceptional processing precision and surface quality. The machine incorporates advanced Japanese P4-grade spindle bearings to ensure low noise, steady operation, and a surface roughness profile of less than 0.63.

## Technical Capabilities

Surface Roughness	0.63 $\mu\text{m}$
Spindle Bearing Grade	Japanese P4-grade
Compatible Materials	Steel, Casting Iron, Nonferrous Metal, Nonmetal

## Control & Automation

### Feed & Movement

- Hydraulic nonpolar transmission for longitudinal movement
- Programmable logic controller for transverse automatic feed
- Manual hand wheel override with clutch gear
- Stepping motor drive

Magnetizing Control	Yes
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## Design & Construction

### Guide Rail Configuration

Axis	Rail Type
Transverse	Double V Type
Longitudinal	One V and one parallel rail