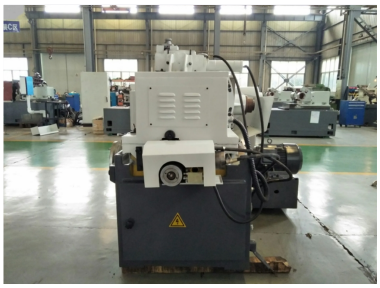
NC Centerless Grinding Machine YJ-1808S

This NC centerless grinding machine is engineered for high-precision grinding of cylindrical workpieces. It features numerical control for automated operation and consistent results.



ADDITIONAL IMAGES

Overview

The YJ-1808S features a high-rigidity structure for stable, high-precision grinding operations.

High-Precision NC Centerless Grinding

The YJ-1808S is a high-accuracy NC centerless grinding machine designed for precision processing of cylindrical workpieces without the need for center holes. It features a robust construction for superior stability and vibration damping, making it ideal for high-volume production environments in automotive and aerospace industries. The numerical control system ensures automated operation with precise adjustments for consistent surface finishes and tight tolerances.

Key Performance Metrics

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50 mm	1950 RPM	11 kW
Max Working Diameter	Grinding Wheel Speed	Main Drive Motor

Wheel Specifications

Front view of the YJ-1808S showing the robust grinding and regulating wheel assembly.

Grinding Wheel Size (O.D*W*I.D)	¦455 × 205 × ¦228.6mm
Regulating Wheel Size (O.D*W*I.D)	¦255 × 205 × ¦111.2mm
Regulating Wheel Speed	0-250 R.P.M (Stepless)

Technical Characteristics

Close-up of the NC-controlled grinding mechanism designed for cylindrical work-pieces.

Engineered with vibration damping components to ensure high surface finish quality.

Mechanical Features

- Fixed grinding wheel and movable regulating wheel structure
- Cantilever type grinding wheel design
- Multi-plate long bearing bushed static-hydrodynamical oil film bearing
- Regulating wheel spindle supports solid bearing sliding with 1:30 taper
- Flat-V hydraulic unloaded guideway for feed slide support

Electrical & Control

Control Systems

- AC frequency converter for regulating wheel speed control
- Hydraulic transmission for dresser units
- Stepless speed regulation for grinding wheel dresser
- Numerical Control (NC) for automated grinding cycles

Power System

Motor Power Ratings

Component	Power Output
Grinding Wheel Drive	11 kw
Adjusting Wheel Drive	2.2 kw
Hydraulic System Drive	1.5 kw
Cooling System Drive	320 w

Applications

The centerless design allows for continuous grinding, significantly improving throughput for mass production.

Target Industries

Automotive • Aerospace • Medical • Precision Engineering

Suitable Materials	Steel, Cast Iron, Non-ferrous Metals, Ceramics, Composites

Logistics

Comprehensive packing, sealing, and global delivery network to ensure safe transport.

Service & Logistics

- OEM & ODM available
- Professional engineer inspection
- Global shipment service
- Technical support and maintenance knowledge