

# 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**

Max Working Diameter

**1950 RPM**

Grinding Wheel Speed

**11 kW**

Main Drive Motor

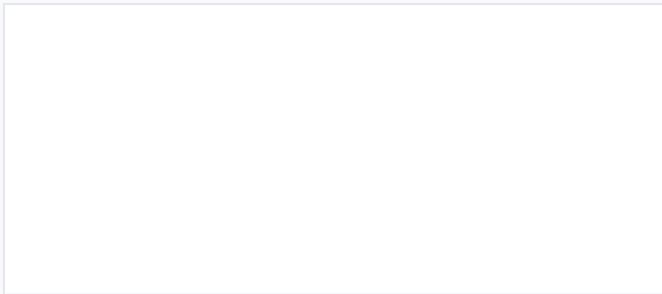
## Wheel Specifications



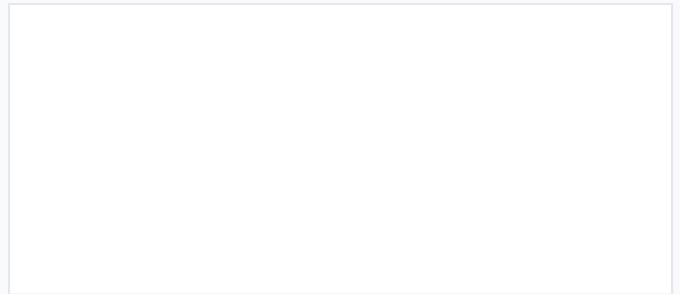
Front view of the YJ-1808S showing the robust grinding and regulating wheel assembly.

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

## Technical Characteristics



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



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

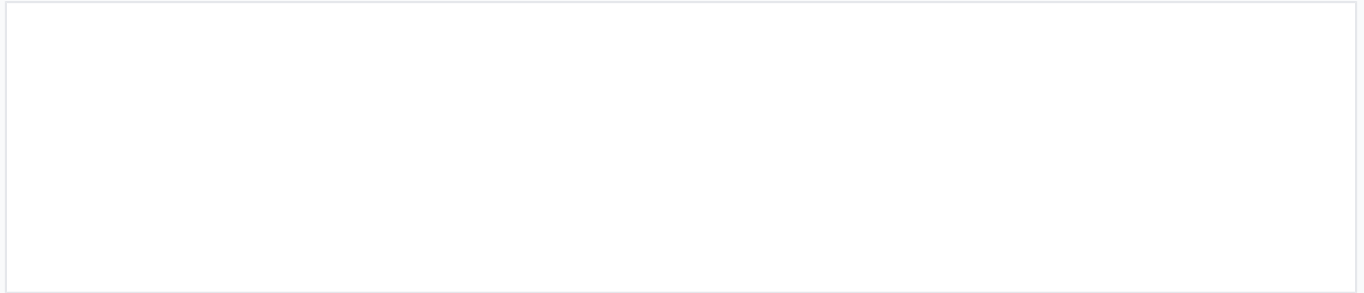
- AC frequency converter for regulating wheel speed control
- Hydraulic transmission for dresser units
- Stepless speed regulation for grinding wheel dresser
- Numerical Control (NC) for automated grinding cycles

## 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.

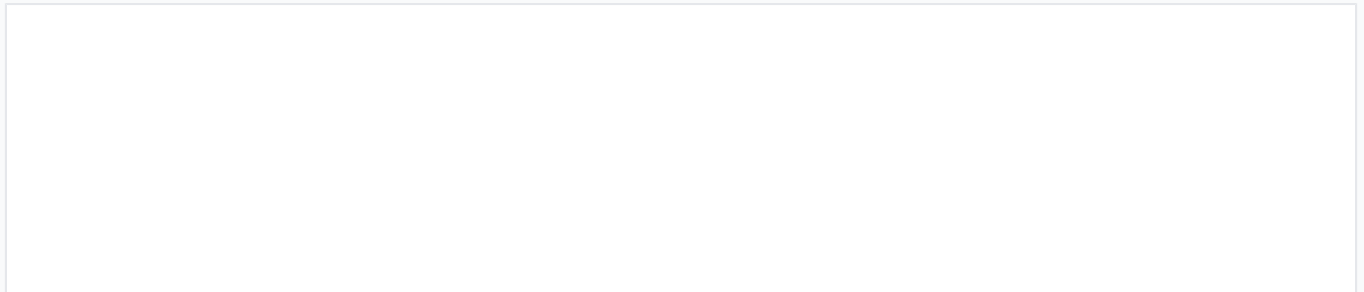
### Target Industries

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