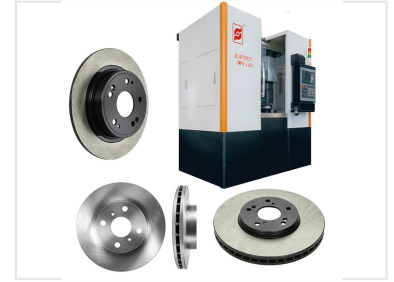


CNC Vertical Grinder for Brake Discs

This CNC vertical grinder is designed for high-precision, high-load machining of brake discs. The X-axis utilizes a positioning moving column structure and optimized design to minimize thermal deformation and enhance shock absorption.



Overview

High-Precision Vertical CNC Grinding Solution

The CMFK-L450 is a high-load vertical CNC lathe specifically engineered for high-speed turning and precision grinding of brake discs. It features an optimized positioning moving column structure and high-grade cast iron construction to minimize thermal deformation and maximize shock absorption. Designed for the automotive and machinery manufacturing sectors, this machine delivers exceptional rigidity and safety for processing complex workpieces.

Key Performance Metrics

Key Performance Metrics

450 mm

Max Processing Diameter

2000 rpm

Max Spindle Speed

6000 kg

Net Weight

11 kW

Main Spindle Power

Processing Capacity

Capacity Specifications

Feature	Specification
Max Swivel Diameter on Workbench	∅450mm
Max Processing Height	200mm
Spindle Nose	A2-8
Grinding Spindle Diameter	∅42mm
Max Diamond Wheel Diameter	∅300mm (Bowl Type)

Technical Features

Core Features

- NSK high-precision spindle bearings
- Heat-treated and precision-ground ball screws
- Automatic lubrication device
- Eight-station electric turret tool rest
- Back-shaped inner protective folding cover
- Chip and liquid ingress protection
- Optional absolute position encoder or servo system

Control System

KND System • CNC Controlled

Travels & Motion

Travels and Motion

Axis	Stroke	Rapid Traverse	Servo Motor
X Axis	360mm	18 m/min	15 N.m
Z Axis	200mm	15 m/min	23 N.m
ST Axis	100mm	-	-

Precision Standards

Processing Precision

Metric	Value
X Axis Positioning Precision	0.015mm
X Axis Repeated Positioning	0.02mm
Z Axis Positioning Precision	0.007mm
Z Axis Repeated Positioning	0.01mm
Shaft Runout	0.008mm

Physical Dimensions

Machine Dimensions

- Length: 2100mm
- Width: 2100mm
- Height: 2400mm