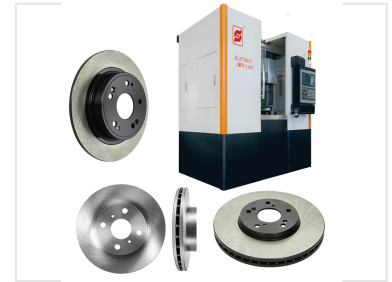


# CNC Vertical Grinder for Brake Discs

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

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**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