

Vertical Machining Center

This vertical machining center is designed for mass production in industries such as automotive, aerospace, and electronics. It features a direct drive spindle, rapid feed rates, and a three-axis rail system for efficient material processing.



ADDITIONAL IMAGES



Overview

High-Efficiency Vertical Machining Centers

The CV series vertical machining centers are engineered for high-speed mass production, catering to automotive, aerospace, communications electronics, and precision mold industries. Featuring a robust integrated base design, these machines ensure rapid chip discharge to maintain a clean internal environment. Equipped with high-speed direct-drive spindles and a non-counterweight Z-axis design, they excel in fast drilling, milling, and tapping operations while minimizing non-processing time.

Performance Metrics

Key Operational Metrics

12000 rpm

Spindle Speed

48 m/min

Rapid Feed Rate

300 kg

Table Load Capacity

Technical Specifications

Axis Travel Comparison

Model	X-Axis (mm)	Y-Axis (mm)	Z-Axis (mm)
CV-640	600	420	450
CV-750	750	420	450

Axis Rail Configuration

- X-Axis: Ball rail
- Y-Axis: Ball rail
- Z-Axis: Roller rail

Applications

Suitable Industries

Automotive, Aerospace, Communications Electronics, Automation Components, Precision Molds

Design Features

Design Advantages

Direct drive spindle • No counterweight Z-axis • Integrated base for chip discharge • Low vibration • Backlash-free transmission