

CNC Router for Particle Board Cutting

This CNC router is designed for cutting particle board and melamine-coated particle board to precise sizes. The machine features a robust frame for stability during high-speed operations, ensuring accurate and clean cuts.



Overview

High-Performance CNC Router for Industrial Processing

This industrial-grade CNC router is engineered for high-volume processing of diverse materials, including particle board, wood, acrylic, and non-ferrous metals. Featuring a robust welded frame and precision components like Hiwin square rails, it ensures exceptional stiffness and accuracy for furniture manufacturing, cabinet making, and decorative applications. With advanced features like break-point memory and an offline DSP control system, this machine maximizes efficiency and minimizes material waste in demanding production environments.

Technical Specifications

Drive System

- X-Y Axis: Rack and pinion with Hiwin square guide rails
- Z Axis: Ball screw with Hiwin square guide rails
- Stepper Motor drive

Working Area (X,Y,Z)	1300 x 2500 x 200 mm
Table Size	1440 x 3150 mm
Positioning Accuracy	±0.03/300mm (Traveling), ±0.05mm (Repositioning)

Performance Metrics

Performance Highlights

4.5 kW

Spindle Power

18000 RPM

Max Spindle Speed

15000 mm/min

Max Working Speed

Compatibility & Control

Compatible Software	Ucancam, Type3, Artcam, Castmate, Wentai
Control System	DSP control system (offline capable)

Physical Dimensions

Dimensions & Weight

Metric	Value
Packing Size	3150 x 2150 x 1900 mm
Net Weight	1200 KG
Gross Weight	1300 KG

Electrical Requirements

Power Requirements

AC380V / 50-60Hz, 3PH

Applications

Suitable Industries & Materials

Furniture • Cabinetry • Woodworking • Acrylic Processing • Non-ferrous Metals • Insulation Materials