

CNC Engraving and Milling Machine

This CNC engraving and milling machine is designed for precise material processing. It is suitable for creating intricate 2D and 3D shapes in materials like wood, plastics, and composites.



Overview



The industrial-grade CNC working center designed for high-speed machining and precision.

High-Precision CNC Working Center

The HF1224F is a robust CNC engraving and milling machine designed for industrial-grade precision in woodworking, plastics, and composite material processing. It features a high-speed HSD spindle and a sophisticated control system capable of producing complex 2D and 3D shapes with exceptional accuracy. Built for stability and efficiency, this machine incorporates an automatic tool changer and advanced safety features to streamline professional production environments.

Performance Metrics



Equipped with a powerful 9.0kW HSD spindle and reliable Yaskawa servo motors.

Key Performance Metrics

9 kW Spindle Power	24000 r/min Max Spindle Speed	45 m/min Max Travelling Speed	20 m/min Max Working Speed
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Technical Specifications

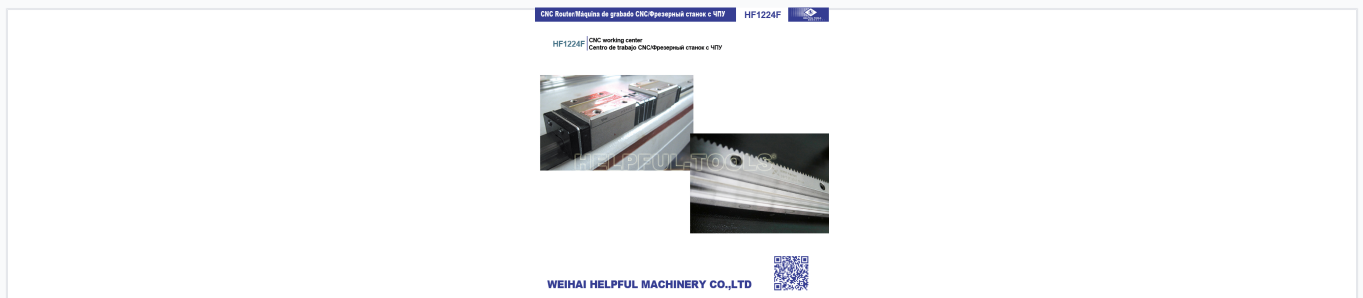
Machine Dimensions

Parameter	Specification
Travelling Size	2500 x 1260 x 200 mm
Working Size	2480 x 1230 x 180 mm
Table Size	2500 x 1230 mm

Voltage Requirement

AC380V / 3PH / 50HZ

Mechanical Components



High-precision linear guide rails and rack and pinion drive system for stable motion.

Transmission & Drive

- X/Y Axis: Rack and pinion drive
- Z Axis: Ball screw drive
- Driving System: Yaskawa (Japan) Servo Motors
- Linear guide rails with sliding blocks

Operational Features

Tool & Table Management

- 8-piece Carousel type tool magazine
- Automatic tool changer for efficient operation
- Vacuum table structure for workpiece stability

Control System



User-friendly control interface featuring an emergency stop and programmable function keys.

Control & Interface

- Syntec (Taiwan) / OSAI (Italy) Controller
- User-friendly interface with function keys (F1-F5)
- Directional controls and emergency stop button
- Supports complex 2D and 3D shape production

Applications

Compatible Materials

Wood, Plastics, Composites