

CNC Router with Pre-Labeling and Auto Loading System

This CNC router integrates pre-labeling and automatic loading/unloading for streamlined wood processing. It is designed for efficient and precise machining operations in high-volume production environments.



Overview



Complete view of the CNC router with automated material handling systems.

High-Efficiency Wood Processing Center

The HFE1224SP is an advanced CNC machining center designed for high-volume production environments. It features a fully integrated pre-labeling system and automated loading/unloading to minimize manual handling and maximize throughput. This machine is ideal for precision engraving, milling, and cutting across various materials including wood, plastics, and composites.

Key Performance Metrics

Performance Highlights

| | | | |
|--------------------------------|---|---|---------------------------------------|
| 9.6 kW Spindle Power | 80 m/min Max Travelling Speed | 24000 r/min Max Spindle Speed | 15 m/min Auto Loading Speed |
|--------------------------------|---|---|---------------------------------------|

Technical Specifications



The machine features advanced control systems and safety warnings for industrial operation.

Technical Details

| Feature | Specification |
|--------------------|-----------------------|
| Travelling Size | 2500 * 1260 * 200 mm |
| Working Size | 2440 * 1220 * 70 mm |
| Table Size | 2440 * 1228 mm |
| Transmission (X/Y) | Rack and pinion drive |
| Transmission (Z) | Ball screw drive |
| Table Structure | Vacuum table |
| Max Working Speed | 25 m/min |

System Components



Detail view of the high-performance HSD boring head and machining components.



Integrated Zebra ZT410 printer for automatic part identification during the machining process.

System Components

- Pre-labeling device (Automatic and independent)
- Zebra ZT410 Label Printer
- HSD Boring Head
- Carousel Tool Magazine (8 positions)
- Yaskawa (Japan) Driving System
- Syntec (Taiwan) Controller

Automation & Workflow

CNC Router/Machine de gravure CNC/Фрезерный станок с ЧПУ HFE1224SP

HFE1224SP (CNC Router with Pre-labeling + Auto loading/unloading system)
Машинка на гравировку CNC/Фрезерный станок с ЧПУ

Pre-label device: Automatic and independent working



WEIHAI HELPFUL MACHINERY CO.,LTD



The integrated pre-labeling and automated loading system for high-volume wood processing.

Automation Features

Pre-Labeling, Auto Loading, Auto Unloading, Vacuum Clamping, Automated Tool Change

Electrical Requirements

Power Supply

AC380V / 3 Phase / 50Hz