

# 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 gravado CNC/Фрезерный станок с ЧПУ HFE1224SP

HFE1224SP (CNC Router with Pre-labeling + Auto loading/unloading system)  
Машина de gravado 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