

Mini CNC Router with DSP Control

This compact CNC router is designed for precision cutting and engraving on various materials. It is equipped with a DSP control system for efficient operation and accurate results.



Overview

Precision Mini CNC Router

This compact CNC router features a durable, all-aluminum cast body and a high-precision water-cooled spindle, making it an ideal solution for small-scale production, prototyping, and educational use. Equipped with an offline DSP control system and imported ball screws, it ensures steady, high-accuracy performance across all three axes. The machine supports a wide range of CAD/CAM software and is versatile enough for processing materials including stone, brass, aluminum, wood, and acrylic.

Technical Specifications

Working Area Dimensions

Model	X,Y Area	Z Area
PC-3020	300mm x 200mm	60mm
PC-3030	300mm x 300mm	60mm

Spindle Performance

24000 r/min
Max Rotating Speed

2.2 KW
Max Power

Resolution	0.01 mm
Max Speed	9 m/min
Cooling System	Water cooling
Drive Motor	Stepper
Operating System	DSP (Offline capable)
Cutter Diameter	3.175 - 8 mm
Power Supply	AC220V / 50/60Hz / 2PH

Features

Machine Highlights

- Whole cast aluminum construction
- Imported ball screw and circle orbit on three axes
- Dustproof X-axis for long-term reliability
- Fixed gantry design for high accuracy
- Compatible with Type3, Artcam, Castmate, and Wentai software
- Built-in process time forecasting

Certifications

CE

Compatible Materials

Stone, Brass, Aluminum, Wood, Plastic, PVC, PCB Board, MDF, Artificial Stone, Acrylic