

# CNC Pipe and Tube Cutting Machine

This CNC pipe and tube cutting machine offers automated cutting for precise and repeatable results. It is suitable for cutting various materials, including steel, stainless steel, and aluminum.



## Overview

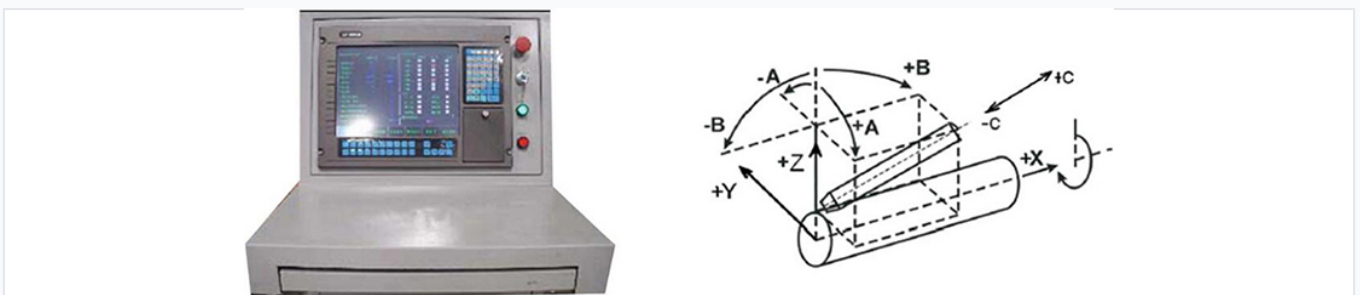


The robust gantry system and rotary chuck allow for high-precision processing of various pipe lengths.

## Professional CNC Pipe & Tube Cutting Solution

This CNC pipe and tube cutting equipment is a high-precision solution designed for automated industrial fabrication. It features a robust steel structure and a versatile multi-axis control system capable of handling complex geometries including miter joints, branch connections, and saddle cuts. With support for both plasma and oxy-fuel processes, it offers a flexible and efficient workflow for construction, shipbuilding, and manufacturing applications.

## Key Performance Metrics



The system supports up to 6 axes for precision beveling and intricate joint preparation.

## Performance Highlights

**1200 mm**

Max Pipe Diameter

**6000 mm/min**

Positioning Speed

**0.5 mm/m**

Pos. Accuracy ( $\pm$ )

**6 Axes**

Max Control Axes

## Technical Specifications

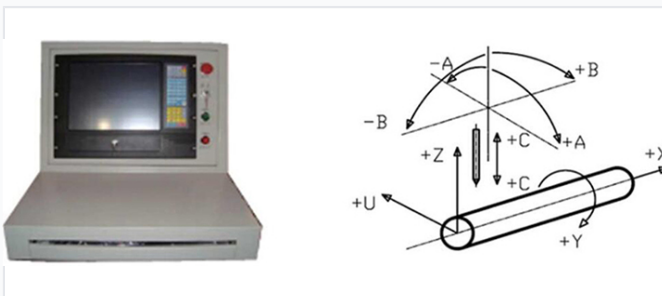


Industrial-grade mechanical components ensure stability and long-term accuracy in heavy-duty environments.

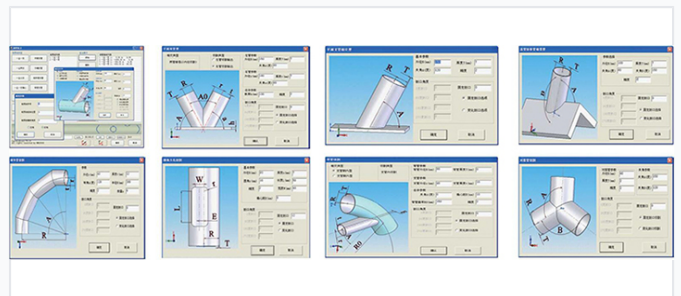
### Machine Parameters

Parameter	Details
Cutting Processes	Plasma, Flame (Oxy-fuel)
Pipe Diameter Range	60 - 1200 mm
Available Pipe Lengths	3000, 6000, 12000, 20000 mm
CNC Controller	HG812 (English/Chinese support)
Drive System	Servo Motor
Repeating Accuracy	±0.2 / 1000 mm
Flame Cutting Fuel	Acetylene, Propane, LPG with O <sub>2</sub>

## Control & Software



Advanced multi-axis control (X, Y, Z, A, B, C, U) enables complex geometric cutting paths.



Intuitive software for configuring miter joints, branch connections, and saddle cuts.

### Software Capabilities

- FreePIPE functional suite
- Direct input of existing drawings
- Easy drawing modification and optimization
- Visual representation of programmed cuts
- Support for miter, branch, elbow, and saddle cuts
- User-friendly interface for real-time monitoring

## Operational Features

### Operational Benefits

Easy Installation, Portable Design, Multi-Axis Bevel Cutting, Automated Loading/Unloading, High Repeatability, Contract Production Ready

## Power & Compatibility

### Power Supply

- 110/220/230/240 V (50/60 Hz)
- 220/380/400/415 V (50/60 Hz)

## Plasma Compatibility

### Compatible Plasma Sources

MAXPRO200 • HPR260 • XPR300 • HPR400