

# C Purlin Roll Forming Machine

This C purlin roll forming machine efficiently produces C-shaped purlins. It utilizes a series of rollers to gradually shape metal sheets into the desired C profile.



## ADDITIONAL IMAGES



## Overview



A complete view of the roll forming line including the uncoiler and main forming stations.

## High-Efficiency C Purlin Production

This C Purlin Roll Forming Machine is engineered for the precise and continuous production of C-shaped structural purlins used in industrial factories, warehouses, and civil buildings. It features a robust 400mm H-beam main frame and 18 forming stations to ensure consistent profile accuracy and durability. With an automated PLC control system and high-speed operation, it provides a reliable solution for high-volume steel building manufacturing.

## Performance Metrics

### Key Performance Metrics

**24 m/min**

Max Forming Speed

**22 kW**

Total Power

**3 mm**

Max Material Thickness

**18 stands**

Forming Stations

## Technical Specifications



The machine produces clean, accurate C-shaped profiles ready for construction use.



Samples of various sizes produced by the adjustable roller system.

### Material Capacity

Parameter	Range/Value
Feeding Thickness	1.5 - 3.0mm
Effective Width	80 - 300mm
Compatible Materials	Galvanized steel, cold-rolled steel, high-strength steel
Roller Diameter	80mm
Backboard Thickness	20mm

## System Components

### Included Components

- Manual Uncoiler (5T Capacity)
- Guiding Platform
- 9-Shaft Strip Leveler
- Main Roll Forming Machine
- Hydraulic Pre-Punching Device
- Hydraulic Pre-Cutting Device
- PLC Computer Control Cabinet
- Hydraulic Station
- Supporter/Run-out Table

## Control & Automation



Chain-driven system with hydraulic cutting for high-speed automated production.

### Control System Features

Feature	Specification
Control Unit	PLC with Touch Screen
Operation Modes	Automatic and Manual
Language Support	English, Chinese, Spanish, Russian
Functions	Programmable length and quantity settings
Components	Inverter, Encoder, Solenoid valves (3 groups)

## Mechanical Construction



Precision-engineered rollers designed for gradual shaping of high-strength steel.

### Mechanical Material Specs

Component	Material/Treatment
Roller Material	High-grade Gcr15 forged steel
Cutter Material	Cr12Mov with quenched treatment
Main Frame	400mm H-Beam steel
Hydraulic Oil Type	46# Hydraulic oil

## Power Requirements

Power Supply	380V, 3-Phase, 50Hz
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## Compliance & Support

Certifications	CE, ISO 9001
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