

Metal Profile Roll Forming Machine for C and U Shapes

This metal profile roll forming machine is designed for producing C and U shaped profiles. It is ideal for manufacturing aluminum sections with precision and consistency.



ADDITIONAL IMAGES



Overview

High-Precision Metal Profile Forming

This industrial roll forming machine is engineered for the efficient, high-volume production of C and U-shaped metal profiles, including aluminum sections. Utilizing a series of progressive forming rollers, it ensures consistent dimensional accuracy and structural integrity for components used in construction, automotive, and industrial applications. The system features a robust, automated design with an integrated hydraulic station and PLC control for reliable, long-term operation.

Technical Specifications



High-pressure hydraulic station powering the cutting and forming mechanisms.

Main Motor Power	18.5 kW
Hydraulic Pump Power	15 kW
Forming Speed	12-14 m/min
Hydraulic Pressure	18-20 MPa
Forming Size Range	80-300 mm
Feeding Thickness	1.5-3.2 mm

Machine Construction



Robust machine base and hydraulic system for consistent profile forming.



Precision-engineered roller stations designed for gradual metal shaping.

Roller Stations	12
Roller Diameter	80 mm
Main Frame Type	350mm H-Beam
Roller/Cutter Material Standard	Cr12
Chrome Plating Thickness	0.05 mm

Control & Power



Integrated PLC control panel for precise speed and operation management.

Control System	PLC Panasonic Inverter
Power Supply	3-Phase, 380V, 50Hz

Dimensions & Weight

Overall Dimensions	9500 x 1400 x 1350 mm
Total Weight	6 T

Configuration

Standard Configuration

- Manual Uncoiler
- Guiding Platform
- Coil Strip Leveler
- Main Body of Roll Forming Machine
- Electro-Motor
- Hole-Punch Device
- Cutting Device
- Hydraulic Station
- PLC Control