Flat Sheet Roof Panel Roll Forming Machine

This machine is designed for the efficient production of flat sheet roofing panels. It utilizes a series of rollers and forming stations to gradually shape metal sheets into the desired profile.

ADDITIONAL IMAGES

Overview

Designed for continuous operation, this machine integrates feeding, forming, and output sections.

High-Efficiency Roll Forming Solution

This flat sheet roof panel roll forming machine is engineered for the precise and efficient fabrication of high-quality roofing materials. Featuring a robust 350H beam steel frame and an 18-step forming process, it ensures consistent output for demanding industrial applications. The system integrates advanced PLC controls and a powerful hydraulic cutting mechanism, allowing for easy parameter adjustments and clean, burr-free edges on various metal sheets.

Performance Metrics

Performance Highlights

12 m/min	18 steps	5 T
Max Line Speed	Forming Steps	De-Coiler Capacity

Machine Construction

The forming section features multiple roller stations designed for gradual and precise metal shaping.

Robust frame construction ensures stability during high-volume production runs.

Frame and Structure

- Frame: Welded 350H Beam Steel
- Wallboard Thickness: 16 mm
- Forming Machine Type: Wallboard and Chain Driver
- Chain Specification: 16A Single Row

Roller Specifications

Component	Specification
Roller Material	Superior 45# Steel Forging
Chrome Plating Thickness	0.05 mm
Shaft Diameter	70 mm

Power and Hydraulics

Automated control panel allows for easy parameter adjustments and performance monitoring.

Electrical and Control

- Voltage: 380V, 50Hz, 3 Phases
- Forming Motor Power: 5.5 kW
- Hydraulic Station Motor: 3.0 kW
- Control System: PLC Computerized

Hydraulic System

- Pressure: 8-12 MPa
- Pump Type: Gear Pump
- Cutting Type: Hydroforming Shear
- Blade Material: Cr12

Operational Features

Operational Capabilities	PLC Controlled, Hydraulic Cutting, Side Direction Roller Feeding, Passively De-Coiling