

Double Layer Roof Panel Forming Machine

This double layer roof panel forming machine produces roof panels with two different profiles in a single pass. The rolling mill is engineered for precision, durability and consistent quality.



Overview



Our machines feature beautiful appearance, simple operation, reasonable price, good quality and so on.

The dual-layer design allows for the production of two different profiles in one space-saving machine.

High-Efficiency Double Layer Roll Forming

This double-decker roll forming machine is engineered to produce two distinct roof panel profiles within a single compact unit, significantly saving floor space and increasing production versatility. It processes color steel, galvanized sheets, and aluminum coils with precision, featuring a robust frame and high-grade forged steel rollers for long-term durability. The system is fully automated via a PLC control cabinet, supporting multiple languages and ensuring consistent output for high-volume B2B manufacturing needs.

Performance Metrics

Key Performance Metrics

12 m/min

Max Production Speed

5 T

Uncoiler Capacity

0.8 mm

Max Material Thickness

4 kW

Hydraulic Power

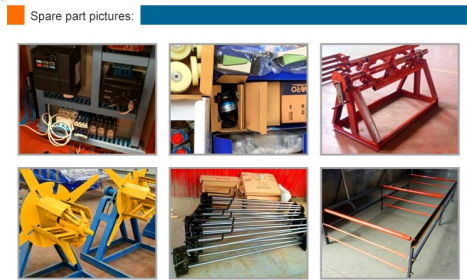
Technical Specifications



Multiple forming stations utilize No.45 forged steel rollers to gradually shape metal sheets with minimal stress.

Compatible Materials	Color Steel Plate, Galvanized Sheet, Aluminum Coils
Feeding Material Width	914-1250mm
Material Thickness Range	0.3-0.8mm
Roller Stations	11-18 rows (customizable)

Component Details



High-precision rollers and electronic control components ensuring consistent panel quality.

Roller Material	High-grade No.45 forged steel
Shaft Diameter	80 mm
Cutting Blade Material	Cr12Mov with quenched treatment

Control System

Operation Modes

Automatic • Manual

System Languages

- English
- Chinese
- Spanish
- Russian

Hydraulic System

Hydraulic Parameters

Parameter	Value
Working Pressure	12-16Mpa (Adjustable)
Oil Type	46# Hydraulic Oil
Solenoid Valve	1 Group

Uncoiler Specifications

Manual Uncoiler Data

- Inner Diameter: 500-508mm
- Max Outer Diameter: 1250mm
- Max Coil Width: 1300mm
- Main Motor: 5.5KW AC
- Adjustable Speed: 0-15m/min

Manufacturing Process



Our rigorous manufacturing process includes shot blasting, painting, and detailed debugging before shipment.

Quality Assurance Process

- Raw Material Selection
- Precision Machining
- Base Plate Production
- Shot Blasting & Painting
- Professional Assembly
- Performance Debugging