

Two-Wave Guardrail Roll Forming Machine

This roll forming machine produces two-wave guardrails. It uses galvanized steel sheet to fabricate metal railings of waved beams.



ADDITIONAL IMAGES



Overview

High-Performance 2-Wave Guardrail Production

This automated roll forming machine is specifically engineered to produce standard two-wave metal guardrails for roadway safety and highway barriers. Utilizing galvanized steel, the system fabricates high-strength waved beams designed to absorb impact energy during vehicle collisions. With a robust 30-ton construction and PLC-controlled automation, it offers a reliable solution for high-volume traffic safety infrastructure manufacturing.

Performance Metrics

Key Performance Metrics

12 m/min

Max Forming Speed

4 mm

Max Material Thickness

30 Tons

Total Weight

Technical Specifications

Compatible Materials	Galvanized steel sheet (as per drawing)
Material Thickness Range	3.0mm - 4.0mm
Production Speed	8-12 m/min (including punching)
Number of Forming Stands	15
Length Tolerance	±1.5mm per 3m

Power & Drive System

Auxiliary Power Components

- Oil pump: 22kw
- Leveling power: 11kw
- Hydraulic Decoiler power: 4kw

Drive Mechanism

Universal Joint

Main Motor Power

22kw + 22kw

Voltage Requirement

380V / 3 Phase / 50 Hz (Customizable)

Components & Construction

Control System

PLC

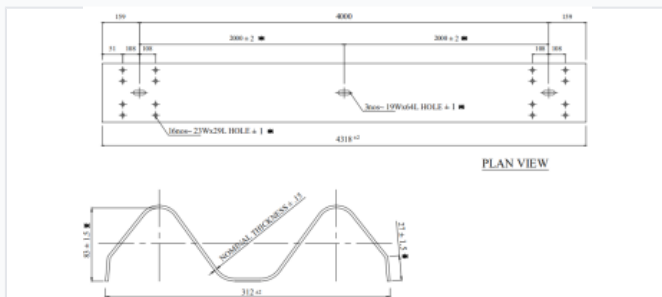
Forming Roller Material

Cr12 with Chromed Treatment

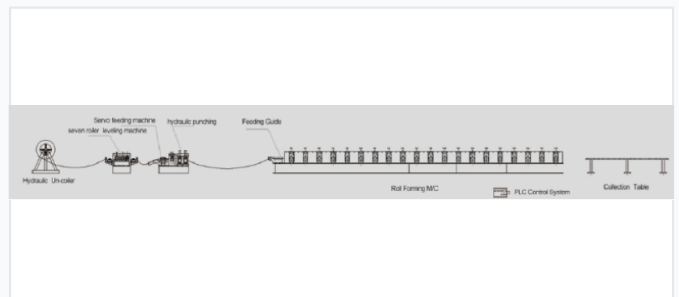
Shaft Details

45# Steel, 110mm Diameter

Workflow & Dimensions



Detailed plan and cross-sectional view of the 2-wave guardrail profile showing hole placements and wave dimensions.



Complete production line layout including hydraulic un-coiler, leveling machine, punching unit, and PLC control system.

Operational Workflow

- Hydraulic decoiler
- Material guiding & leveling
- Servo feeding
- Hydraulic punching & cutting
- Roll forming
- Collection table

Machine Footprint (L*W*H)

12m x 2m x 1.2m