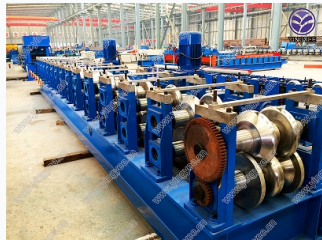


# Two-Wave Guardrail Roll Forming Machine

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

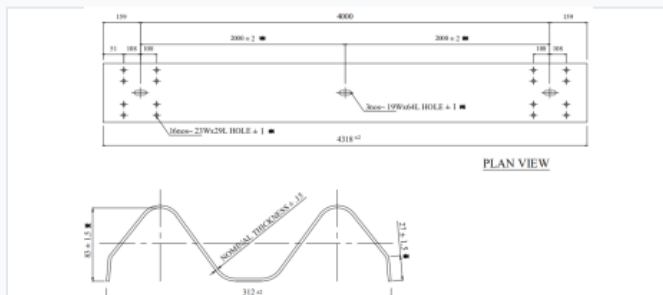
### Forming Roller Material

Cr12 with Chromed Treatment

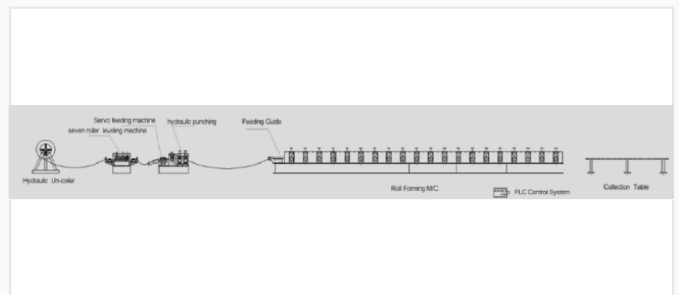
### Shaft Details

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