

Three-Wave Guardrail Roll Forming Machine

This machine is used for producing three-wave guardrails. It utilizes a rolling and cold bending process to form steel sheets into the desired three-wave pattern.



ADDITIONAL IMAGES



Overview

High-Efficiency 3-Wave Guardrail Production

This specialized roll forming machine is engineered to produce high-strength 3-wave road barriers from steel sheets with thicknesses ranging from 3.0mm to 4.0mm. The resulting guardrails are characterized by their light weight, high structural strength, and excellent earthquake-proof and fireproof properties. Designed for durability and low energy consumption, this automated line ensures consistent quality for large-scale highway safety applications.

Key Advantages

Earthquake-proof, Fireproof, High Strength, Low Energy Consumption, Durable

Key Performance Metrics

Performance Highlights

10 m/min

Forming Speed

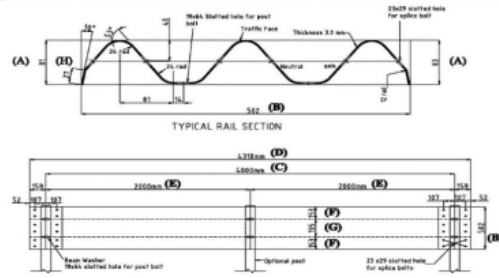
40 Tons

Total Weight

55 kW

Main Motor

Technical Specifications



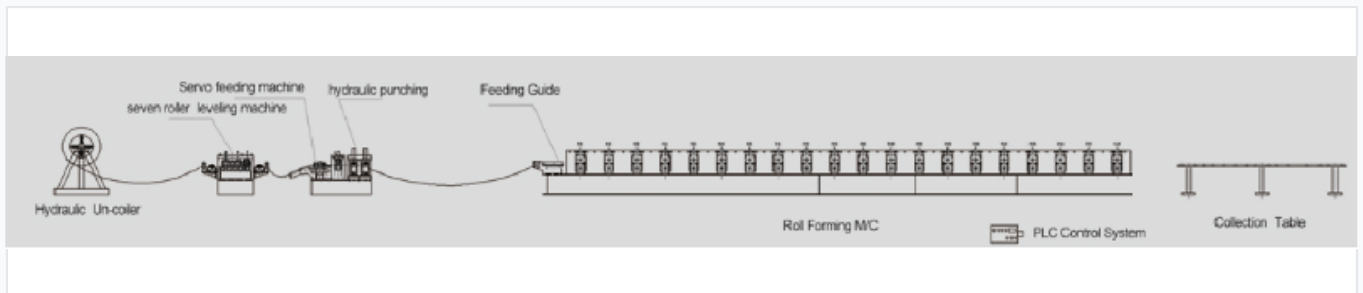
Detailed profile dimensions for a standard 3-wave guardrail section, including bolt hole placements.

Material Compatibility

Parameter	Specification
Material Thickness	3.0 - 4.0 mm
Roller Material	GCR15
Shaft Material	45# Steel
Shaft Diameter	110 mm

Number of Forming Stands	15
Length Tolerance	±2mm per 3m

Production Process



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

Operational Workflow

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

System & Control

Control Unit

PLC Control • Universal Joint Drive • 380V/3-Phase/50Hz

Physical Dimensions

Machine Footprint	18m x 2m x 1.2m (L*W*H)
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Power Requirements

Auxiliary Power

- Oil pump: 45kw
- Hydraulic Decoiler: 5.5kw