

Grille Ceiling Roll Forming Machine

This cold roll forming machine efficiently produces grille ceilings with precision. It uses rollers to gradually shape metal sheets into the desired profile, ensuring consistent quality.



ADDITIONAL IMAGES



Overview

High-Efficiency Grille Ceiling Production

This automated roll forming line is engineered for the precise and continuous manufacturing of metal grille ceiling panels. The system integrates decoiling, straightening, servo-driven feeding, multi-stage punching, and forming into a single, high-speed production workflow. Built with a robust steel chassis and precision-ground components, it ensures consistent dimensional accuracy and reliable performance for high-volume architectural production.

Technical Specifications

Key Performance Metrics

15 m/min

Forming Speed

0.6 mm

Max Material Thickness

4 kW

Main Motor Power

Material Compatibility

Aluminum

Electrical Requirements

AC380V, 50Hz, Three-phase

Line Components

Production Line Components

Component	Specifications
Decoiler	1T capacity, 400-500mm inner hole
Straightener	3-roller system, 1.5kW motor
Feeder	Yaskawa servo motor, 1.5kW
Conveyor	0.75kW, 220V adjustable speed

Punching System Details

- Main Punch: 16t, 1.5kW, 120 times/min
- Small Punch: 1.6kW, 180 times/min
- PLC-controlled pitch and length

Machine Construction

Construction Details

- 14 sets of rolling wheels
- 45# steel rollers, quenched and hard chrome plated
- HRB6206 ball bearings
- 16mm thick bottom plate
- 25mm thick side plates