

Dip Light Keel Roll Forming Machine

This machine is used for the efficient production of light gauge metal profiles, specifically keels used in lighting and ceiling systems. It utilizes a series of shaped rollers to gradually form the metal strip into the desired keel profile.



ADDITIONAL IMAGES

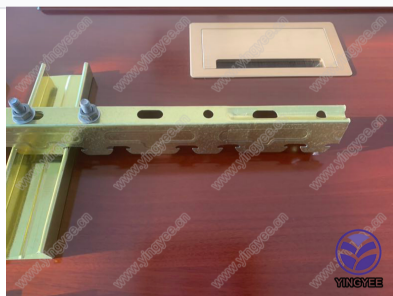


Product Overview

High-Efficiency Dip Light Keel Production

The Dip Light Keel Roll Forming Machine is a specialized solution for the precise manufacturing of light gauge metal profiles used in suspended ceiling systems. This automated line utilizes a series of 16 forming stands to progressively shape metal strips into consistent, high-quality keel profiles. Engineered for high-volume production, it features a non-stop cutting system and adjustable settings to accommodate various material thicknesses and dimensions.

Core Performance



The robust forming station featuring precision rollers for consistent profile shaping.

Key Performance Metrics

5.5 kW

Main Motor Power

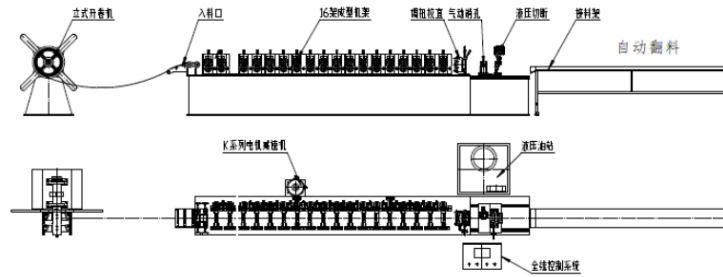
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Decoiler Capacity

16 qty

Forming Stands

Technical Process



Detailed technical layout from vertical uncoiler to automatic blanking rack.

Production Workflow

- Vertical Uncoiling
- Entry Port Feeding
- 16-Stand Roll Forming
- Torsion Straightening
- Pneumatic Punching
- Hydraulic Non-stop Cutting
- Automatic Blanking and Collection

System Components



Complete automated line including uncoiler, forming section, and control panel.

Included Equipment

- Manual Decoiler (3T Capacity)
- Adjustable Width Feeding System
- Main Forming Machine
- Non-stop Hydraulic Cutter
- Hydraulic Station with Cooling Fan
- PLC Control System
- Automatic Collection Table
- Maintenance Wrench Set

Material Compatibility

Compatible Materials

Galvanized Steel, Aluminum, Light Gauge Metals

Technical Specifications

Mechanical Details

| Component | Specification |
|--------------------|--|
| Motor Reducer | K-series high-efficiency type |
| Cutting Mechanism | Hydraulic non-stop tracking cut |
| Feeding System | Width adjustable guides |
| Frame Construction | High-strength steel for vibration resistance |

Application



High-precision finished products suitable for ceiling and lighting applications.

Primary Applications

Suspended Ceilings • Lighting Fixture Frames • Construction Profiles • Wall Partition Systems