

Cable Tray Cold Bending Forming Machine



Overview

The Layout of Cable Tray Manufacturing Machine All as we know that, cable trays are perforated and bended into a C type.

Key Takeaways

Cable tray cold bending forming machines are automated systems that transform metal sheets into precise cable tray profiles using progressive cold bending technology. Overview

Cable tray cold bending forming machines are specialized equipment designed to manufacture various types of cable trays, including ladder, perforated, U-shaped, and C-shaped trays, from metal sheets such as galvanized steel, stainless steel, or aluminum . These machines operate using cold bending technology, where metal sheets are gradually shaped through multiple roller passes without heating, ensuring high dimensional accuracy and structural integrity .

Working Principle

- **Uncoiling and Leveling:** Coiled metal sheets are unrolled and flattened using a leveling machine to remove internal stresses and achieve a smooth surface .
- **Servo Feeding and Punching:** High-precision servo motors feed the flat sheets into punching stations for holes such as connection, grounding, or ventilation holes .



- Cold Bending/Forming: The sheets pass through a series of rollers in a multi-frame forming unit. Each roller gradually bends the sheet into the desired cross-sectional profile, maintaining precise angles and dimensions .

- Cutting and Discharge: After forming, hydraulic or mechanical cutting units trim the trays to preset lengths, and the finished products are collected automatically .

Technical Specifications

- Tray Widths: Typically 100mm to 1000mm, customizable based on client requirements .

- Material Thickness: 0.8mm to 3mm for most machines .

- Production Speed: 10-20 meters per minute depending on tray type and material thickness .

- Automation: Fully automated with PLC and HMI control, requiring minimal operators (1-2 personnel), .

- Forming System: Double-sided or multi-frame roller systems allow symmetrical or asymmetrical tray profiles .

- Punching/Cutting: Integrated punching units for holes and hydraulic/flying saws for precise cutting .

Applications

These machines are widely used in industrial plants, construction projects, energy storage, photovoltaic power stations, and automated production lines. They enable high-volume, consistent, and precise production of cable trays for electrical wiring and cable management systems .

Advantages

- High precision and dimensional accuracy due to progressive cold bending.
- Fully automated operation reduces labor costs and increases production efficiency.

- Versatile production for different tray types and sizes.

- Integrated punching and cutting units streamline manufacturing.

- Compliance with international safety and quality standards (CE, ISO certifications), .

Cable tray cold bending forming machines represent a reliable, efficient, and flexible solution for modern cable tray manufacturing, combining automation, precision, and adaptability to meet diverse industrial requirements.

Article Content

Cable Tray Ladder Making Cold Roll Forming Machine

The Cable Tray Ladder Making Cold Roll Forming Machine is an automated cold bending equipment specifically designed for

Cable Tray Machine factory

China Cable Tray Machine manufacturer, Bazhou Yiping Hongshengda Electromechanical Equipment Co., Ltd is Cable Tray Roll

Cable tray roll forming machine

The fourth generation production line is composed of block steel conveying device, leveling punching and cutting machine, feeding

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Cable Tray Roll Forming Machine Manufacturer

Trunking cable tray is cold-formed by cable tray roll forming machine. Trunking cable tray is a durable rectangular enclosure in which

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The Layout of Cable Tray Manufacturing Machine All as we know that, cable trays are perforated and bended into a C type. So the

Cable Tray Machine

A cable tray roll forming machine takes flat metal strips and gradually bends them into specific shapes or profiles

Cable Tray Forming Machine□Fully Automatic Cold Roll Forming Line

As a core automated production line for the electrical accessories industry, our cable tray roll forming machine integrates uncoiling,

automatic cable tray forming line | customizable profiles

Our cable tray roll forming machine is your all-in-one solution for manufacturing professional-grade cable management systems.

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