Cable Tray Lifting Bracket Production



Overview

The utility model discloses a production line for a cable bracket, comprising a bracket side plate production line, a bracket wire tie production line, and a production line for...

Key Takeaways

Cable tray lifting brackets are produced using specialized roll forming and punching machinery integrated into automated cable tray production lines, ensuring precise dimensions, strength, and compatibility with various cable tray systems.

Production Overview

Cable tray lifting brackets are essential support elements that connect cable trays to ceilings, walls, or structural frameworks, providing mechanical stability and load-bearing capacity. Their production is typically part of a cable tray roll forming line, which includes feeding, punching, roll forming, and cutting modules to create both the tray and its supporting brackets.

Materials and Specifications

Brackets are usually made from steel, stainless steel, or galvanized steel, with optional coatings for corrosion resistance. Production lines can handle materials with thicknesses ranging from 0. 4 mm to 2.

0 mm and widths from 50 mm to 1200 mm, allowing customization for different tray sizes and load requirements. The height of brackets can also be adjusted to match the cable tray system, typically between 20 mm and 150 mm.

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Manufacturing Process

Feeding System: Raw material, either in coil or sheet form, is fed into the line using a decoiler, straightener, and precision feeder controlled by servo motors for high accuracy. Punching: CNC punching units create holes or slots in the bracket for mounting and ventilation. Hole patterns are designed to optimize heat dissipation, reduce weight, and allow flexible installation.

Roll Forming: The metal is shaped into the bracket profile using roll forming stations. This ensures consistent dimensions and structural integrity. Cutting and Coupling: Brackets are cut to length and may include coupling units to create outlets or attachment points for cable trays.

Quality Control: PLC-controlled systems monitor production parameters, ensuring dimensional accuracy within ±0. 2 mm and consistent mechanical strength.

Customization and Integration

Production lines allow customized bracket designs to match specific cable tray types, including perforated trays, ladder trays, and mesh trays. Brackets can be adapted for horizontal or vertical mounting, and specialized fittings are available for complex routing scenarios. This flexibility ensures compatibility with industrial, offshore, and onshore installations.

Advantages of Automated Production

High precision and repeatability in bracket dimensions and hole patterns. Efficient material usage and reduced waste. Scalability for small or large production volumes.

Integration with cable tray systems, ensuring safe and reliable cable support. In summary, cable tray lifting brackets are manufactured using automated roll forming and punching lines, with materials and dimensions tailored to project requirements. These brackets are critical for the safe installation of cable trays, providing mechanical support, flexibility, and durability in diverse industrial environments.

Article Content

A production line for cable trays

The utility model discloses a production line for a cable bracket, comprising a bracket side plate production line, a bracket wire tie production line, and a production line for...

Guide to cable support systems

The systems are suspended from the ceiling with threaded rods, stand-off brackets allow raised floor mounting of cable trays, ladders and mesh cable trays. The universal systems comprise ceiling

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This production line has 2 sets of storage devices, between the front press machine and rear machine, between the rear machine and roll forming machine. The storage device consists of bracket,

Cable Trays

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GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian Electrical Code, Part I and the National Electrical Code®

Cable trays

We offer a wide range of cable tray systems to support tubing, electrical cables and instrumentation. Our cable trays are produced in fit for purpose materials like

Cable Tray Roll Forming Machine,Cable Tray Production Line,Ladder

Cable tray forming equipment offers a range of solutions for different production needs. While roll forming lines provide efficiency and scale, the third-generation cable tray machine introduces

How to Install Cable Tray: A Comprehensive Guide to Different Cable ...

Welcome to our step-by-step guide on installing cable trays! In this video, we''ll explore the different types of cable trays available and provide detailed instructions for their installation.

Cable Tray Accessories, Cable Tray Hangers & Support | RS

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What types of cable tray accessories are there? There are several different types of cable tray accessories, which are available in heavy-duty, medium-duty, or light-duty strengths. The type of

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Wall L Bracket for 150 mm and 300 mm Wire Mesh Cable Trays MODEL NUMBER: SRWBWALLBRKT Securely attaches sections of wire mesh cable tray to the wall of your data center, network closet or

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CABLE TRAY L WALL BRACKET

• For hanging cable tray directly to wall • Requires Mounting Anchor Bolts • Sturdy design for heavy load weights • Professional Electro-Plated Zinc Finish ...

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Cable Tray Capabilities

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MST Installation of Cable Containment Including Support Bracket - Free download as Word Doc (.doc / .docx), PDF File (.pdf), Text File (.txt) or read online for free. This method statement outlines the

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