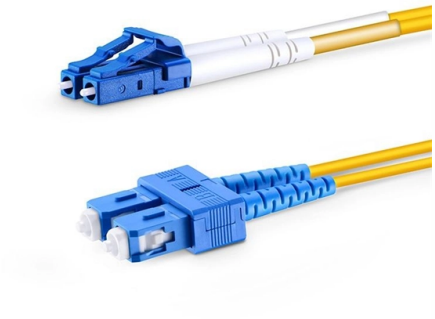
Distribution Box Profile Machine



Overview

Professional electric box enclosure roll forming machine for producing electrical cabinets, distribution boxes, junction boxes, and control panels.

Key Takeaways

A Distribution Box Profile Machine is specialized industrial equipment designed to automate the forming, punching, bending, and assembly of electrical distribution boxes with high precision and efficiency.

Overview

A distribution box profile machine is used to manufacture metal or composite enclosures that house circuit breakers, fuses, meters, and other electrical components. These machines are essential for producing standardized electrical boxes for residential, commercial, and industrial applications, ensuring protection against environmental exposure and unauthorized access while complying with safety standards such as IEC 61439 and UL 508A.

Key Features

Automation: Modern machines integrate servo feeding, hydraulic punching, roll forming, automatic cutting, and PLC control, allowing fully automatic production from coil feeding to finished product collection. Material Compatibility: Machines can process cold-rolled steel, galvanized steel, stainless steel, and sometimes polycarbonate materials, with tensile strength up to 780 MPa. Customization: Adjustable dimensions for height (300–1200 mm) and depth (160–400 mm) allow production of various box profiles.

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Some machines can produce multiple panel styles in one line. Production Efficiency: Fully integrated machines can produce 2–3 enclosures per minute, with overall efficiency 3–5 times higher than conventional manual methods. Precision: CNC laser cutting, hydraulic punching, and roll forming ensure accurate shaping, hole placement, and bending with minimal tolerance.

Production Process

Uncoiling and Leveling: Raw metal coils are placed on an uncoiler and straightened. Servo Feeding and Punching: Material is fed into the machine, and hydraulic punching creates holes and notches. Roll Forming and Bending: The sheet is shaped into the box profile and bent to specifications.

Cutting and Collection: Finished boxes are cut to length and collected for packing. Quality Control: Insulation, grounding, load tests, and IP protection tests ensure compliance with safety standards.

Considerations for Selection

Automation Level: Fully automatic machines reduce labor costs and improve consistency. Durability and Maintenance: Machines with robust construction and accessible spare parts ensure long-term operation. Technical Support: Availability of training, software updates, and overseas service is critical for smooth operation.

Production Volume: Choose machines based on required output, from small-batch customization to high-volume industrial production.

Applications

Distribution box profile machines are widely used in: Industrial automation (motor control, robotics)Renewable energy (solar, wind, battery storage)Commercial buildings (HVAC, lighting, office power distribution)Infrastructure projects (transportation, water treatment, smart cities) By combining high-speed roll forming, hydraulic punching, and automated bending, these machines provide a reliable, scalable, and cost-effective solution for producing high-quality electrical enclosures.

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Article Content

Zhongtuo Electric Box Enclosure Roll Forming Machine For Electrical ...

Professional electric box enclosure roll forming machine for producing electrical cabinets, distribution boxes, junction boxes, and control panels. Fully automatic production with servo feeding, hydraulic

Metal Enclosure Electronic Cabinet Making Machine Distribution Panel ...

The main features of the distribution box roller forming machine include a high degree of automation and precise control, which can adjust the size and shape of the box according to different production

Electric Cabinet Profile Frame Making Machine Column Steel Upright

The main features of the distribution box roller forming machine include a high degree of automation and precise control, which can adjust the size and shape of the box according to different production

Electrical Cabinet Box Forming Machine (Electrical Distribution Box)

The electrical control box roll forming machine is a highly efficient automated equipment specifically designed for the mass production of electrical control box enclosures.

Electrical Distribution Boxes for Power Distribution

The Wieland distribution boxes accommodate all required components of the electrical installation as well as building automation on a project-specific basis.

Distribution Box Manufacturing Process | Custom

Learn the step-by-step distribution box manufacturing process—from design and material selection to assembly and testing. E-abel provides high-quality electrical

Distribution Box Guide: Types, Components & Solutions

Understand distribution boxes (DB boxes) in 5 minutes. Learn about types, components, functions, and uses. Find the perfect DB box for your needs.

Distribution boxes – For modular and decentralized

Modular enclosure system for individual power distribution solutions and a broad product range for signal distribution. Available in all forms and configurations,

Customized Electric Panel Box Distribution Box Metal Enclosure Roll ...

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From profile drawings to assembly drawings to installation drawings. Every link is designed by our technical department.Due to the high accuracy of cutting and low range tolerance, the product can

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Automatic Power Distribution Box Production Line

Steel Enclosure Box Making Process Uncoiler→ Straightening→Servo feeder→Hydraulic device→ Guide device → Roll forming machine →Bending

Steel Enclosure Roll Forming Machine for Making Distribution Box

The document details the technical specifications and production process of a distribution box roll forming machine by Shenzhen Superda Machine Co., Ltd. It includes parameters for materials,

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DB BOX(Electrical Distribution Box): Everything You Need to Know

Learn everything you need to know about the Electrical Distribution Box (DB Box). Explore types, materials, installation tips, etc.

Power distribution panel production machine for outdoor/indoor cabinet box

1, Distribution box production line for producing electrical cabinet box IP65 & IP66, Outdoor & Indoor water-proof cabinet enclosure. 2, PLC

Electronic Distribution Box Roll Forming Machine

Power distribution box roll forming machine advantage 1, Distribution box production line for producing electrical cabinet box IP65 & IP66, Outdoor & Indoor water

Electrical Distribution Board Enclosure Roll Forming

Electrical distribution board roll forming machine production line process Uncoiler→ Straightening→Servo feeder→Hydraulic device→ Guide device → Roll forming

Understanding Distribution Boxes: A Comprehensive

A distribution box, also known as a power distribution box or electrical distribution box, is used to distribute electrical power safely to multiple

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