

Distribution box roll forming machine



AI Overview

Distribution box roll forming machines are automated systems designed to efficiently produce electrical enclosures from coiled metal sheets, integrating feeding, punching, forming, bending, and cutting processes.

Overview Distribution box roll forming machines are specialized equipment for manufacturing electrical enclosures such as power distribution boxes, control cabinets, and switchgear housings. These machines transform coiled metal sheets—typically cold-rolled, galvanized, or stainless steel—into precise, high-quality enclosures through a continuous roll forming process.

Key Components and Process

- Uncoiler and Leveling Machine:** The metal coil is placed on an uncoiler, straightened, and tensioned to ensure smooth feeding.
- Hydraulic Punching System:** Pre-punching and notching are performed to create holes and cutouts required for assembly and wiring.
- Roll Forming Section:** The metal is shaped into the enclosure profile using precision rollers, ensuring consistent dimensions and flatness.
- Bending and Cutting:** The formed sheet is bent and cut to the required size, completing the enclosure structure.

Automation Features: Modern machines include CNC control, automatic feeding, IoT monitoring, and MES system integration for real-time production data and preventive maintenance.

Technical Specifications

- Material Thickness:** 1.0–1.5 mm
- Material Width:** 200–450 mm
- Coil Weight:** Up to 3 tons
- Production Speed:** 2–3 enclosures per minute for standard lines, or up to 100 units per hour for high-efficiency models
- Adjustable Dimensions:** Height 300–1200 mm, Depth 160–400 mm
- Durability:** Machines are tested for over 100,000 continuous cycles, ensuring stability and reliability.

Advantages

- High Efficiency:** Integrates multiple steps into a continuous process, reducing manual labor and production time.
- Flexibility:** Modular mold design allows quick changeovers for different enclosure types, including surface-mount, concealed, and suspended models.
- Cost Reduction:** Optimized structural design can reduce production costs by up to 28% and increase...

Article Content

Electrical Cabinet Forming Machine

electrical cabinet enclosure roll forming machine for producing for power distribution box, control panel, cabinet upright beam rack, low voltage cabinet instrument

Distribution box roll forming machine-Qingdao Sunmach Intelligent ...

The production line from sunmach include: Light guard steel frame roll forming machine, distribution box roll forming machine, Cable tray roll forming machine, Supermarket/storage shelf series forming

Electrical cabinet enclosure 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

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

Sure, we can design the machine according to the requirement and profile drawing you provide. Our engineers can offer the best professional solution to our worldwide clients.

Sheet metal box roll forming machine for distribution board & modular ...

Product Description Machinery for production electronic Sheet metal box roll forming machine for distribution board & modular box making. Equipment for outdoor/indoor distribution panel formed

Wall mounted steel enclosure production line

Wall mounted steel enclosure roll forming machine production line for electric box outdoor indoor cabinet panel forming and enclosure bending. 1, Steel enclosure

Automatic Electrical Cabinet Box roll forming machine

The video was recorded the Electrical Cabinet Roll Forming Machine equipment working in our factory. It manufactures Electrical Cabinet.

Panel Width Changeable Electrical Box Roll Forming

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

Steel Enclosure Roll Forming Machine for Making Distribution Box

It includes parameters for materials, forming capabilities, speed, and quality, along with a description of the production line's components and layout. The setup features an uncoiler, straightener, servo

Factory Direct Distribution Box Roll Forming Machine for Small ...

KEFA-Distribution box roll forming machine Distribution box roller forming machine is an automation equipment for efficient and accurate production of distribution box housing. This machine through a

Distribution box roll forming machine

First option:Decoiling——Leveling——Feeding——Punching——Roll forming——Cutting/Bending——Collecting Second

Electric Modular Iron Box Making Machine

Automatic electrical modular iron box roll forming machine for making module consile box, iron outlet box, module socket box.

Sheet metal box roll forming machine for distribution

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

Factory Direct Distribution Box Roll Forming Machine for Small ...

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

junction box & distribution enclosure roll forming machine working ...

@metalenclosuremachines junction box & distribution enclosure roll forming machine working video 11 4 Share

Full Automatic Metal Steel Distribution Box DB Box Roll Forming Machine ...

Distribution box roller forming machine is an automation equipment for efficient and accurate production of distribution box housing. This machine through a series of automatic processes, from raw steel

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

Customized Distribution Box Roll Forming Machine Manufacturer

Our Distribution Box Roll Forming Machine offers exceptional stability and reliability, having been tested for 100,000 cycles of continuous operation. Choosing a Parfu switchboard forming machine means

Metal Enclosure Electrical Distribution Box Roll Forming Machine ...

Distribution box roller forming machine is an automation equipment for efficient and accurate production of distribution box housing. This machine through a series of automatic processes, from raw steel

Box Plate Roll Forming Machine in 2025

A Box Plate Roll Forming Machine isn't just a piece of equipment—it's an investment in your business's growth. Whether you're manufacturing for construction, automotive, or industrial

Electronic Distribution Box Roll Forming Machine Supplier China

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

Box Beam Roll Forming Machine

A box beam roll forming machine is equipment used to form sheet metal or coils into box beam structures with a hollow rectangular cross-section. This versatile roll former produces

Metal Electrical Box Cabinet Enclosure Distribution Box Roll Forming ...

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

1. Introduction

Hydrofoils have replaced table rolls in high-speed paper machines having very short forming zones. The advantages of hydrofoils are easy regulation of drainage, gentle turbulence, more drainage, good

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.dknconsulting.co.za>

Email: info@dknconsulting.co.za

Phone: +31 6 2948 7351

Address: Herengracht 123, 1015 BT Amsterdam, Netherlands

This document is for informational purposes only. Specifications subject to change without notice.

