ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Trough-type cable tray production line



Overview

A trough-type cable tray roll forming line cold-forms steel strip into channel-style cable trough sections.

Key Takeaways

A trough-type cable tray production line is a fully automated system that integrates roll forming, hydraulic punching, and cutting to produce high-quality, durable cable trays efficiently.Overview

A trough-type cable tray production line is designed to manufacture trough cable trays used in electrical wiring systems for commercial, industrial, and infrastructure projects. These lines are highly automated, combining coil feeding, leveling, roll forming, punching, cutting, and finished product collection into a continuous process, ensuring precision, efficiency, and consistent quality .

Key Components
• Hydraulic Uncoiler/Decoiler: Handles steel or aluminum coils, allowing smooth feeding into the line .

• Leveler: Ensures flatness of the metal sheet before forming .

• Punching Unit: CNC or hydraulic punching systems create holes, slots, or perforations for ventilation, heat dissipation, and cable management. Punching patterns can be customized according to project requirements .

• Roll Forming Machine: Precisely bends and shapes the metal into the trough profile. Rollers are made of hardened steel for durability and high precision .

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• Cutting Unit: Automatically cuts trays to the desired length, often using Cr12MoV steel blades for long-lasting performance .

• Control System: PLC-based intelligent control panels manage production parameters, monitor operations, and allow easy adjustments for different tray sizes and materials .

Material Compatibility

These production lines can process a variety of materials, including galvanized steel, stainless steel, aluminum, pre-painted, hot-rolled, and cold-rolled steel, with thickness ranges typically from 0.4mm to 2.0mm . This flexibility allows manufacturers to meet diverse project specifications.

Production Capabilities

• Tray Dimensions: Widths from 50mm to 1200mm, heights from 20mm to 150mm, and customizable lengths .

• Precision: Forming accuracy is typically within ±0.2mm, ensuring consistent tray quality .

• Automation: High-speed continuous production reduces labor intensity and increases output, with options for semi-automatic or fully automated operation .

• Customization: Modular designs allow adaptation for different tray types (trough, ladder, perforated, wire mesh) and project-specific punching patterns .

Advantages

• High Efficiency: Continuous roll forming and punching maximize production speed .

• Durability: Hardened rollers, precision molds, and robust components ensure long service life .

• Flexibility: Supports multiple materials, tray sizes, and hole patterns .

• Reduced Costs: Automation lowers labor requirements and material waste .

• Technical Support: Manufacturers often provide installation, training, and after-sales service .

Applications

Trough-type cable trays produced by these lines are widely used in construction, power plants, industrial facilities, and infrastructure projects, providing reliable cable management, ventilation, and structural strength . In summary, a trough-type cable tray production line is a highly automated, flexible, and precise system that enables manufacturers to produce durable cable trays efficiently while accommodating various materials, sizes, and project-specific requirements.

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Our cable tray production line has specially strengthened the high-precision CNC punching process and roll forming process to cope

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Professional cable tray roll forming machine line for complete production. High-precision roll forming technology ensures efficient

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automatic production line for ladder & trough cable tray

high-speed automatic cable tray forming machine with PLC control, stable forming, high precision and easy operation. Suitable for

Trough Trays | Cable Tray and Reels | Wire and Cable Management

Cablofil steel trough trays provide the strength and security required when then need to limit cable access is of primary importance.

HOPEX Fully Automatic cable tray production line

HOPEX Fully Automatic cable tray production line is high-performance industrial equipment for mass production of steel cable trays.

Cable Tray Production Line

According to cable machine necessary work, we offer different combinations of steel sheet cable tray production machine lines. We

cable tray production line cable tray manufacturing machine

Considering the various sizes of cable tray, the roll forming machine is designed in a quick interchangeable type. which can adjust

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Cable Trough Production Line

A cable tray production line is an industrial machinery system designed for the automated manufacturing of cable trays, which are

Full cable tray systems specification document

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

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Cable Tray Production Line

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Cable Tray Automatic Production Line

HCM-600 Cable Tray Automatic Production Line is a cable tray roll forming line that adopts metal sheet coils as raw material. It forms

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Cable Tray Making Machine

Cable trays come in many sizes and designs – ladder type, ventilated channel type, solid

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Explore the ultimate guide to cable tray production equipment. Learn about types, features,

Perforated Cable Tray Production Line: Boost Your Production In 2026

The perforated cable tray production line is a high-performance duplex system engineered to manufacture C-section cable tray

Cable Tray Production Method & Production Line Process

A standard fully automatic cable tray roll forming line mainly includes the following steps: Decoiling, Leveling, Servo Feeding,

Cable Tray Roll Forming Machine Line | Complete Production Line

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Production Insight: Manufacturing these requires a high-precision cable tray forming machine (specifically a trough type cable tray

[Full Machine Breakdown] Inside a Trough Cable Tray Roll Forming ...

This video offers a deep look, from a static panoramic view, at the complete production

Cable Tray Manufacturing Line

This production line allows the manufacturing of cable trays in various sizes, materials, and specifications to meet different needs.

Solid Bottom Cable Tray System | MonoSystems

The solid bottom trough is a versatile cable tray system available in a broad range of NEMA and CSA load classes.

HOPEX Fully Automatic cable tray production line

HOPEX Fully Automatic Cable Tray Forming Machine: high precision, stable performance, full automation,

Cable tray manual

Where cable tray wiring systems with current carrying conductors are installed in a dust environment, ladder type cable trays should

Cable Tray Roll Forming Machine

This production line can produce cable tray. Different specifications can be completed by replacing the die.

Cable Troughs | McMaster-Carr

Choose from our selection of cable troughs, including raceway, wire duct, and more. Same and Next Day Delivery.

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Cable Tray Production Line Cable tray production line is for production cable tray, which is pretty helpful system which can deliver to

Cable Tray Roll Forming Machine | Cable Tray Making Machine

Cable Tray Roll Forming Machine This line can produce various sizes of cable trays and tray covers Whatever the width, height,

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