

Small cable tray laying machine



Overview

Choose from our selection of cable carriers, including over 3,400 products in a wide range of styles and sizes.

Key Takeaways

Small cable tray laying machines are compact roll forming machines designed to produce cable trays efficiently in limited spaces, suitable for widths of 100–600mm and heights of 50–100mm.

Small cable tray laying machines, also known as cable tray roll formers, are used to manufacture cable trays that support electrical cables for power distribution, control, and communication in industrial and commercial settings. These machines are ideal for workshops or small-scale production where space and investment are limited, yet precision and flexibility are required.

Key Features

- **Compact Design:** Small machines are designed to occupy less floor space while maintaining production efficiency.
- **Material Handling:** They typically handle metal strips with thicknesses ranging from 1mm to 2mm, suitable for light to medium-duty cable trays.
- **Tray Sizes:** Widths usually range from 100mm to 600mm, and heights from 50mm to 100mm, with adjustable rollers and cutting positions for different tray specifications.

- Automation: Many small machines include semi-automatic or fully automatic features such as hydraulic punching, cutting, and width adjustment, allowing for quick changeovers between tray designs .
- Versatility: Capable of producing ladder-type, solid channel, ventilated channel, or T-shaped cable trays depending on tooling and dies .

Working Principle

The machine operates by uncoiling a metal strip, guiding it through a series of forming rollers and dies that progressively shape the tray, punching holes as needed, and cutting the finished tray to length . Some models include servo-electric pullers and rotary shears for precise feeding and cutting .

Applications

Small cable tray laying machines are suitable for:

- Electrical installations in commercial and industrial buildings
- Data centers and communication cable management
- Workshops producing custom or small-batch cable trays
- Projects requiring quick adaptation to different tray sizes and designs

Advantages

- Space-efficient: Ideal for small workshops or limited production areas
- Flexible production: Easy to switch between different tray types and sizes
- Cost-effective: Lower initial investment compared to full-scale production lines
- High precision: Ensures consistent quality and accurate dimensions

Considerations

When selecting a small cable tray laying machine, consider:

- Maximum tray width and height required
 - Material thickness compatibility
 - Level of automation needed (manual, semi-automatic, or fully automatic)
 - Production volume and speed requirements
 - Maintenance and ease of die/tool changes
- Small cable tray laying machines provide a practical solution for producing high-quality cable trays in compact environments, offering flexibility, efficiency, and precision for small to medium-scale operations .

Article Content

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