ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Russian Cable Tray Production Process



Overview

The cable tray forming machine is a fully automatic CNC production equipment specially designed for cable tray processing.

Key Takeaways

Cable trays in Russia are primarily produced using roll forming and rotary punching processes, transforming steel or aluminum sheets into standardized profiles for electrical and communication cable management.Overview of the Production Process

Russian cable tray production typically begins with metal coil selection, usually steel or aluminum, chosen based on the required tray width, thickness, and load capacity . The production line is designed to handle high-volume manufacturing efficiently, often integrating multiple steps into a single automated line .

Key Steps in Production
• Decoiling and Straightening The metal coil is loaded onto a decoiler, which unwinds the sheet. A straightener ensures the metal is flat and free of residual curvature before forming .

• Roll Forming The flat metal strip passes through a series of roll forming machines, where successive rollers gradually bend the sheet into the desired cross-sectional profile of the cable tray. Each roller is precisely designed to shape the metal incrementally, maintaining dimensional accuracy and structural integrity .

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• Punching and Perforation For ventilated or perforated trays, a rotary punching machine is used to create holes or slots along the tray. This allows air circulation and reduces weight. Russian production lines often use high-speed rotary punches for efficiency and precision, replacing older hydraulic or eccentric presses .

• Cutting and Length Adjustment After forming, trays are cut to the required lengths using automated cutting machines. Some lines allow for continuous production, with optional welding or joining of tray sections for longer runs .

• Quality Control and Finishing Throughout the process, quality control ensures dimensional accuracy, surface finish, and structural strength. Minor deformations are corrected, and trays may undergo surface treatments such as galvanization or powder coating for corrosion resistance .

• Stacking and Packaging Finished trays are stacked and prepared for shipment. Automated stacking units help organize trays efficiently for storage or delivery .
Types of Cable Trays Produced
• Ventilated Cable Trays: Perforated for airflow and heat dissipation.

• Wire Mesh Trays: Suitable for numerous small cables, such as network or telephone lines.

• Channel Trays: Used where fewer cables are installed, often in constrained spaces .
Russian Manufacturers

Companies like MKM (Moskabelmet) are leading producers in Russia, offering a wide range of cable and wire products. They operate multiple factories with advanced production lines, exporting to Europe and Asia, and supplying strategic partners such as the Ministry of Defense and Rosatom . Their production emphasizes innovation, environmental safety, and quality control, with over 50,000 product items and annual output exceeding 40,000 km of cable products .

Summary

The Russian cable tray production process combines roll forming, rotary punching, cutting, and quality control to produce durable, standardized trays for industrial and commercial applications. Automation and precision machinery ensure high efficiency, while manufacturers like MKM maintain strict quality and environmental standards, making Russian cable trays competitive in both domestic and international markets .

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It can process the male and female overlapping sockets at both ends of cable trays

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Cable tray manufacturing is an intricate process involving the design, production and distribution of systems

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These technological advances enable higher production volumes with improved consistency and reduced

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The first company producing cable and wire products in Russia. Based on the plant that was founded by Mikhail Podobedov in 1895.

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We manufacture Cable trays from Mild Steel (MS) sheets and Aluminium sheets. MS Cable trays are either Hot dip galvanised or

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From Coil to Finished Product: See How a Cable Tray is Made | Fully ...

Have you ever wondered how these uniform trough-type cable trays are manufactured

Galvanization In Cable Tray Manufacturing and Installation

With the process of using a cable tray, the wiring work becomes very easy and fast. Everything is contained in an

Cable Trays (Cable Tray)

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Cable Trays - You find here 33 suppliers from Germany Canada China Turkey Netherlands Denmark India Russia Morocco and

Cable Tray Manufacturing Process: 5 Best Secrets

The optimal Cable Tray Manufacturing Process is a continuous, highly automated operation that transforms heavy

About Us

A group of companies was founded in 1997. At the present time it''s one of the leading manufacturers of cable support systems for

Amazing Manufacturing Process Of Cable Tray

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