

How to cut a folded cable tray

Article Overview

Cable trays can be efficiently cut and folded using manual tools or automated machines, with proper planning, material handling, and safety precautions ensuring precision and system integrity.

Cutting Cable Trays

Purpose: Cutting is often required to adjust tray length, create openings for conduits, or modify sections during installation . **Tools and Methods:**

- o **Manual Tools:** Hacksaws or heavy-duty cable cutters are suitable for smaller cuts or aluminum/fiberglass trays .
- o **Power Tools:** Band saws, cut-off saws, or angle grinders are used for metal trays, providing cleaner cuts and higher efficiency .
- o **Automated Machines:** Fully automatic cutting machines integrate feeding, punching, cutting, and forming, ideal for high-volume production and custom specifications . **Best Practices:**
 - o Measure and mark cut lines accurately using tape measures and markers .
 - o Secure the tray with clamps or a vise to prevent movement during cutting .
 - o Deburr edges with a file or deburring tool to prevent injury and maintain structural integrity .
 - o Use personal protective equipment (PPE) including gloves, safety glasses, and hearing protection .
 - o Avoid using torches for cutting, as heat can weaken the material and damage surface treatments .

Folding Cable Trays

Purpose: Folding shapes the tray to fit installation requirements, such as bends, angles, or transitions. **Methods:**

- o **Manual Folding:** Operators use hand tools or press brakes to bend trays, suitable for small-scale or custom jobs .
- o **Automated Folding Machines:** CNC or PLC-controlled machines provide high precision, consistent angles, and high production capacity, ideal for large-scale manufacturing . **Advantages of Automated Folding:**
 - o Uniform folding angles and dimensions reduce defects .
 - o Minimal labor involvement after programming, improving efficiency .
 - o Supports high-volume production for industrial or infrastructure projects .

Safety and Material Considerations

- o Always wear Kevlar gloves, eye protection, and appropriate footwear when handling and cutting trays .
- o Use the correct blade for the material type (e.g., stainless steel vs. carbon steel) to prevent contamination or

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galvanic corrosion .

- o Protect surrounding materials from sparks and overheating when using grinders .
- o For fiberglass or FRP trays, avoid angle grinders due to splintering and safety hazards .

Summary

For small-scale or on-site adjustments, manual cutting and folding with proper PPE and deburring is sufficient. For high-volume or precision manufacturing, automated cutting and folding machines provide efficiency, consistency, and reduced labor costs. Proper planning, accurate measurement, and adherence to safety guidelines are essential to maintain tray integrity and ensure safe, compliant installations .

Common cable trays are made of galvanized steel, stainless steel, aluminum, or glass-fiber reinforced plastic. The material for a

Developed by Interstates, this cable tray cutting guide acts as a guide for a metal cutting circular saw for cutting the

The document discusses Metstrut cable tray systems, including their configuration, materials, dimensions, and compliance with

When a wire cable tray is cut, the fact that a wire has been cut does not affect the level of protection. Let alone we have rubber caps

This video is a short excerpt from our full video that can be found

Part (2) How to cut Cable Trunking || electrical cable tray cutting formula || cable tray 90 bendHi friend I am Usman

Cutting wire mesh tray properly reduces sharp ends and makes for a safer installation. To

How to make a 90 electrical cable tray bend to measurement with a gusset of your

The solution for cutting cable trays, cable tray lids, cable ladders, trapezoidal profile rungs, cable protection channels, stiffening UA

Hello, I am learning how to become an electrician. I am going to make a series of videos showing how to fabricate cable tray and

I worked with cable tray about 40 years ago and remember I created a couple of simple formulae to work out

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how

These trays help manage cable routing in commercial, industrial, and data center

In the Oglaend System Cutting Guideline you can easily find out what the optimal cutting lengths/intervals are for all

Includes a full demonstration on how bend steel cable tray using a crimping to. You can

Part Number CLEANSHEAR Patented 1 Face tray up. Slide cutter next to vertical wire and cut. 2 Turn tray to the side with open side

CUTTING GUIDELINE How to cut Oglaend System Support Channels, Cable Ladders and Cable Trays.

Web: <https://bssoda.pl>

