

How to generate elbows in Huijue cable trays

Article Overview

Huijue cable tray elbows can be created either by metal fabrication techniques for physical trays or by using CAD software like AutoCAD/TrayCAD for digital designs.

Physical Fabrication of Cable Tray Elbows

To make a 90° or 45° elbow in a cable tray:

- o Tools and Materials: Straight cable tray section, cutting tools (angle grinder or hacksaw), measuring tape, marker, set square or protractor, drill, bolts, nuts, washers, and cold galvanizing spray for rust protection .
- o Mark the Center Line: Determine the bend location and draw a line across the tray base.
- o Mark 45° Cuts: Measure equal distances on both sides of the center line to create two 45° cuts for a 90° elbow.
- o Cut Side Channels: Cut the tray flanges at 45° angles, stopping at the base.
- o V-Notch the Base: Remove V-shaped sections to allow the sides to close together.
- o Bend the Tray: Fold the tray at the center to form the elbow; the cut sides should meet perfectly.
- o Secure the Joint: Drill holes and fasten with bolts; use connecting plates for larger trays.
- o Finish: Apply cold galvanizing spray to exposed metal to prevent rust . You can also follow video tutorials for step-by-step guidance on professional fabrication techniques .

Digital Creation in CAD Software

For designing elbows in software like Revit or AutoCAD:

- o Revit Method:
 - o Open the family editor and create a new Cable Tray Fitting family.
 - o Set the Part Type to 'Channel Vertical Elbow' and replace duct connectors with cable tray connectors.
 - o Adjust parameters and angles to allow the elbow to adopt the routing path of the tray .
 - o For 45° elbows, use two segments; for 90° elbows, use three segments .
- o TrayCAD Method:
 - o Install B-Line cable tray product data and open AutoCAD with TrayCAD.
 - o Use the Explorer to select parts and drag them into the model space.
 - o TrayCAD proposes horizontal bends for several angles; adjust the length or angle as needed and place the elbow fitting .

Tips and Considerations

- o Always measure accurately and ensure cuts are precise to avoid misalignment.

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- o For larger trays, reinforce elbows with additional bracing.
- o In CAD, use sweeps and reference lines instead of simple extrusions to prevent geometry errors .
- o Safety is critical during fabrication: wear gloves, goggles, and follow proper metalworking precautions . By combining these fabrication and CAD techniques, you can generate Huijue cable tray elbows suitable for both real-world installations and digital planning.

Metal elbows for cable trays are an essential component in electrical installations, ensuring safety, durability, and aesthetic appeal.

Learn how to produce wire mesh cable trays and complex connectors with this detailed guide. Explore the key steps

Creating a 90-degree elbow in an electrical cable tray, often called a "fabricated" or

How to make Huijue multi-layer cable trays The purpose of this article is to define the sequence and methodology for the installation

Solved: I am having a problem creating a cable tray fitting, I did the best I could (see attached), however still doesn't

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

Cable Tray Installation Method Statement 1. Cable Tray Installation Cable trays should be installed in accordance with the latest

Cable trays and ducts In CADprofi program it is possible to create plans and installations cross-sections that include trays, ducts and

Discover the detailed process on how to produce cable trays, covering everything from

Use the Create Category window to create a cable tray element (CTRAY), including types such as elbows, tees, crosses, risers,

How to design cable tray? Most projects are roughly defined at the start of cable tray design. For projects that are not

The first reason it does not work is that the cable tray MEPSsystem property is null, so the connectors cannot

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be found. Instead, the

UMI horizontal flat elbow in the context of a cable tray refers to a component used in cable management systems to change the

Discover the main components of a cable tray system. Learn about tray types, fittings,

o Cable trays - general views - this command contains typical trays and fittings used when designing cable trays. o Cable tray

Main keywords for this article are Cable Tray Installation Details With Pictures, Cable Tray Installation Details DWG, Cable Tray

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