

RIVO MULTITRADE OPTICAL SYSTEMS

How difficult is it to dismantle a mesh cable tray



Overview

Preparation Wire Tray Models and Dimensions Before proceeding with fabrication, first confirm your wire tray model and dimensions.

Key Takeaways

Dismantling a mesh cable tray is moderately challenging, requiring careful planning, proper tools, and attention to cable protection and structural stability. Key Factors Affecting Difficulty



Material and Tray Type: Mesh cable trays are typically made from galvanized steel, stainless steel, or aluminum, each affecting weight, rigidity, and ease of cutting or unbolting . Aluminum trays are lighter and easier to handle, while steel trays may require more effort and specialized tools . **Tray Configuration:** Straight sections are easier to remove, whereas bends, tees, risers, and reducers require careful disassembly to avoid damaging the tray or cables . The open-grid design allows flexibility, but complex assemblies increase the difficulty. **Cable Protection:** During dismantling, cables must be secured to prevent swinging, bending, or damage. Using temporary supports, cable racks, or anchor points is essential, especially for vertical runs . **Tools and Equipment:** Common tools include wrenches, bolt cutters, angle grinders, or hydraulic shears for metal trays . For field modifications, bolt cutters can safely cut mesh wires without compromising corrosion protection, and rubber caps can protect cut ends . Proper lifting equipment may be needed for longer or heavier sections. **Safety Considerations:** Power must be disconnected, and the work area assessed for hazards. Fall protection and insulating mats are necessary for elevated installations . Rusty or corroded bolts may require loosening agents rather than forceful removal to prevent damage.

Practical Tips

- **Disassemble in Sections:** Remove support structures first, then carefully detach tray sections, starting from the furthest points .
- **Maintain Structural Stability:** Use jacks or temporary supports to prevent sudden shifts or collapse.
- **Field Modifications:** Mesh trays allow on-site cutting and bending, which can simplify removal of complex sections .
- **Plan Ahead:** Review project drawings, mark tray locations, and ensure all tools and safety equipment are ready before starting .

Conclusion

While mesh cable trays are designed for flexibility and field modification, dismantling them is not trivial. The task requires moderate technical skill, proper tools, and careful handling to protect both the cables and the tray structure. With proper preparation and adherence to safety protocols, the process can be executed efficiently and safely .

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