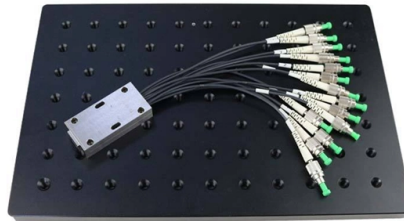


SolidWorks sloping power distribution box



Article Overview

A sloping power distribution box in SolidWorks can be designed using sheet metal tools, parametric modeling, and proper ventilation features to ensure functionality and manufacturability.

Design Approach in SolidWorks

1. Sheet Metal Modeling: Use SolidWorks Sheet Metal tools to create the enclosure. Start with a base sketch of the box and apply Bend, Flange, and Loft features to achieve the sloped top or angled surfaces. This allows for easy flattening for manufacturing and ensures accurate bend allowances (). 2. Parametric Design: Create a fully parametric model so dimensions, slope angles, and cutouts can be adjusted easily. Input your desired specifications for height, width, depth, and slope angle, and SolidWorks will update the 3D model automatically (). 3. Ventilation and Mounting: Include ventilation slots, fan openings, and mounting holes to ensure proper cooling and easy assembly. Sloped tops can help with heat dissipation and prevent dust accumulation (). 4. Electrical Component Accommodation: Design the interior to house power supplies, control boards, or connectors. For sloping boxes, ensure that components are mounted securely and that cable routing is optimized to follow the slope (). 5. Export and Manufacturing: Once the design is complete, generate a flat pattern for sheet metal fabrication. SolidWorks allows exporting in STEP, STL, or DXF formats for CNC cutting or 3D printing ().

Resources and Examples...

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