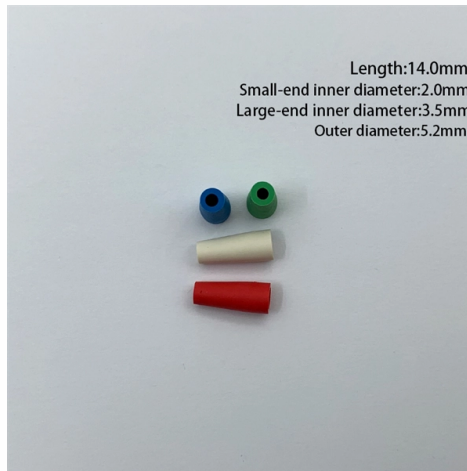


Metal Fiber Distribution Box Body Manufacturing Process



Overview

Production Process of Optical Fiber Distribution Boxes Each step plays a crucial role in ensuring the quality and functionality of the final product. Below.

Key Takeaways

The manufacturing of metal fiber distribution boxes involves precise material selection, CNC cutting and forming, surface treatment, assembly, and rigorous quality testing to ensure durability and performance.

Material Selection and Preparation

The process begins with selecting high-quality raw materials, typically stainless steel or cold-rolled steel, chosen for corrosion resistance and mechanical strength, especially for outdoor applications. Protective coatings such as anti-rust treatments, powder coatings, or electrostatic plastic sprays are applied to enhance waterproof and dustproof performance. Each batch undergoes thickness, hardness, and corrosion resistance tests to ensure compliance with standards.

Cutting and Forming

Steel sheets are cut into precise shapes using CNC laser cutting machines or plasma cutters, followed by CNC punching systems to create holes for cable entries, mounting hardware, and components. The sheets are then bent and formed using hydraulic or CNC press brakes, ensuring accurate angles for the box sides, back, and top. This step guarantees consistency and allows for both standard and customized designs.

Surface Treatment

After forming, the boxes undergo surface finishing, which may include powder coating, electrostatic spraying, or other protective treatments. This step improves durability, corrosion resistance, and aesthetic appearance, making the boxes suitable for indoor and outdoor fiber optic installations .

Assembly

The distribution box is assembled by integrating internal components such as fiber splicing trays, cable management brackets, and mounting panels. The assembly ensures proper cable termination, splicing, distribution, and cross-connection for fiber optic networks . Customization options allow for different sizes, fiber capacities, and mounting configurations to meet specific project requirements.

Quality Control and Testing

Each box undergoes rigorous inspection to verify structural integrity, waterproofing, dustproofing, and compliance with international standards. Functional tests ensure that fiber connections are secure and that the box can withstand environmental stresses . Certifications such as CE, ISO 9001, and cUL may be obtained to guarantee global compliance.

Packaging and Delivery

Finally, the boxes are carefully packaged to prevent damage during transport. Lead times vary depending on order size, with samples typically ready in 1–3 days and bulk orders in 20–35 days . Manufacturers often provide OEM services and design support for large-scale network projects. This comprehensive process ensures that metal fiber distribution boxes are durable, reliable, and suitable for FTTH, FTTB, and outdoor telecom applications, providing long-term performance in fiber optic networks .

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