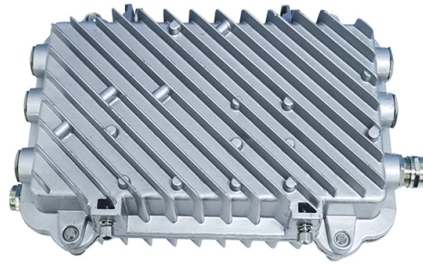


Machining of Distribution Box Equipment Shells



Article Overview

Distribution box shells are manufactured through a precise sequence of CNC cutting, bending, punching, welding, surface treatment, and assembly to ensure durability, accuracy, and compliance with protection standards.

Material Selection and Preparation

The process begins with selecting high-quality raw materials, typically sheet steel, galvanized steel, or stainless steel, depending on indoor or outdoor applications and corrosion resistance requirements. Each batch undergoes thickness, hardness, and corrosion resistance testing to ensure consistency and suitability for the intended environment ().

Cutting and Forming

Sheets are cut into precise shapes using CNC laser cutting machines or plasma cutters. This step ensures accurate dimensions for all panels. After cutting, the sheets are bent and formed using hydraulic or CNC press brakes, creating the sides, back, and top of the enclosure. Punching and drilling machines then create openings for switches, circuit breakers, cable entries, and mounting hardware, with high precision to maintain alignment and sealing integrity ().

Machining and Surface Finishing...

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