

Manufacturing of complete electrical distribution boxes



Article Overview

The manufacturing of complete electrical distribution boxes involves a systematic process from design and material preparation to assembly, surface treatment, and rigorous testing to ensure safety and functionality.

Design and Engineering

The process begins with design and engineering, where precise CAD drawings and 3D models are created based on customer requirements, application scenarios, and international standards such as IEC or ANSI. This stage defines material thickness, dimensions, IP/NEMA protection levels, and component layout, ensuring compatibility and reliability for applications like industrial automation, solar power, or commercial buildings .

Material Preparation

High-quality raw materials are selected according to the intended use. Common materials include galvanized steel for indoor boxes and stainless steel for outdoor applications. Surface treatment materials such as anti-rust coatings, powder paints, or other protective finishes are prepared. Each batch undergoes thickness, hardness, and corrosion resistance tests to ensure durability .

Cutting and Forming...



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