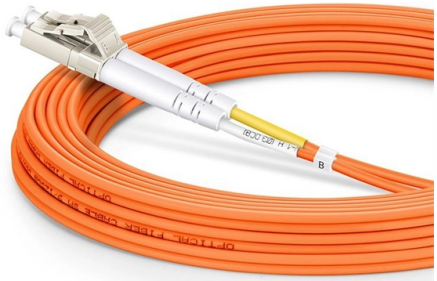
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Distribution Box Shell Production



Overview

How Distribution Box Shell Production is Done Video Transcript The distribution box shells are used to house electrical components such as circuit breakers.

Key Takeaways

Distribution box shells are manufactured through a precise process involving material selection, CNC cutting and forming, assembly, surface finishing, and rigorous quality testing to ensure durability, safety, and compliance with international standards.Material Selection and Preparation

The production begins with selecting high-quality raw materials. Sheet steel, galvanized steel, stainless steel, or durable plastics like ABS are chosen based on indoor or outdoor applications and required corrosion resistance. Protective coatings, such as anti-rust treatments or powder coatings, are applied to enhance durability. Each batch undergoes thickness, hardness, and corrosion resistance tests to ensure consistent quality and compliance with standards like IEC, ANSI, or IP/NEMA ratings .

Cutting, Forming, and Punching

Sheets are cut using CNC laser or plasma cutting machines for high precision. The flat pieces are then bent and formed using hydraulic or CNC press brakes to create the box's sides, back, and top. Holes for circuit breakers, switches, cable entries, and mounting hardware are made with punching and drilling machines, ensuring exact alignment for component installation .

Assembly and Welding

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Depending on the design, parts of the shell are spot-welded or fastened together, with reinforcements added at stress points. For plastic enclosures, components are molded and assembled with precision. The assembly ensures structural integrity and proper fit for internal electrical components like busbars, terminals, and breakers .

Surface Finishing

To protect against corrosion and environmental damage, shells undergo surface treatments such as phosphate coating, powder coating, or UV-resistant finishes. This step ensures the enclosure maintains its appearance and performance over time, even in harsh outdoor conditions .

Quality Control and Testing

Finished shells are subjected to electrical safety tests, insulation resistance checks, grounding verification, and load tests. Ingress Protection (IP) tests confirm dustproof and waterproof performance, while final inspections verify dimensions, coating quality, and structural integrity. Only after passing these checks are the shells approved for packaging and delivery .

Innovations and Efficiency

Recent innovations in sheet metal shell design include enhanced heat dissipation, electromagnetic shielding, and structural optimization, which improve the safety and efficiency of internal components. Advanced manufacturing technologies reduce production costs while maintaining high quality, supporting smart power systems and industrial applications .

Packaging and Delivery

Completed distribution box shells are carefully packed in wooden crates, export cartons, or pallets to prevent damage during transport. Manufacturers often maintain global warehouses for quick dispatch and offer customization for small or large-volume orders . This comprehensive production process ensures that distribution box shells are reliable, durable, and suitable for industrial, commercial, and renewable energy applications, meeting international standards and customer-specific requirements.

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Due to different applications, the protection level of the shell is different. They are mainly used as power

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Distribution board

A distribution board (also known as a panelboard, circuit breaker panel or box, electric panel, fuse box or

Power Distribution Boxes: A Complete Overview

This article covers the types, features, and advantages of power DB boxes, as well as their manufacturers

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Sabo IP65 Waterproof Dustproof ABS Plastic Shell Combiner Box

The waterproof distribution box is mainly used for distribution lines and is a product with a box structurtBeautiful

smseace Distribution Protection Box, ABS Plastic Transparent Cover ...

Product name: Distribution protection box (design of 8 ways circuit breakers) Material: The shell is made of ABS plastic, the cover is

Manufacturing locations

Manufacturing locations

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Reliable power distribution boxes designed for safety and efficiency—perfect for industrial and commercial setups.

RCB Plastic Distribution Box

In addition, the IP67 plastic street light waterproof box is composed of ABS shell and PC door, which has excellent heat resistance

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The shell is what keeps everything inside the distribution box safe from external factors like dust, water, or physical

IP66 Plastic Distribution Box SHPN Series

IP66 plastic distribution box SHPN series has streamlined design, compact structure, easy installation, impact resistance, oxidation

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IP65 Waterproof 2-Way Distribution Box with DIN Rail | ABS Shell

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IP65 ABS Distribution Protection Box,12 Way Waterproof Circuit

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