

# Contracting the production of electrical distribution boxes



## AI Overview

Contracting the production of electrical distribution boxes involves a structured process from design and material preparation to manufacturing, assembly, testing, and delivery, ensuring quality, compliance, and customization to client requirements.

**Key Steps in Contracted Production**

- 1. Requirement Confirmation** Before production, clearly define the electrical parameters (rated voltage, current), functional requirements (main distribution, control, protection), quantity, installation environment, and any special needs. This ensures the manufacturer understands the scope and specifications of the project.
- 2. Design and Engineering** Manufacturers create detailed CAD drawings and 3D models based on customer requirements and standards (IEC/NEMA). This includes material thickness, dimensions, IP/NEMA protection levels, and internal component layout. Proper design ensures compatibility, safety, and reliability across applications such as industrial automation, commercial buildings, or renewable energy systems.
- 3. Material Planning and Preparation** High-quality raw materials are selected, including steel or stainless steel sheets, anti-rust coatings, powder paint, and protective finishes. Accurate material planning ensures sufficient stock for production, including extra steel sheets and components like locks, hinges, and sealing strips.
- 4. Manufacturing and Assembly** The production process typically involves:
  - Cutting and Forming:** CNC laser cutting, punching, bending, and stamping for precise dimensions.
  - Surface Treatment:** Powder coating, anti-corrosion treatment, and finishing.
  - Internal Assembly:** Installing electrical components such as circuit breakers, contactors, and wiring according to the design plan.
  - Sealing and Protection:** Applying seamless gaskets and climate filters to protect internal electronics and comply with standards like DIN EN 61439.
- 5. Quality Contr...**

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Distribution board

A distribution board (also known as panelboard, circuit breaker panel, breaker panel, circuit breaker, electric panel, fuse box or DB box) is a component of an

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.mr-security.co.za>

Email: [info@mr-security.co.za](mailto:info@mr-security.co.za)

Phone: +33 1 45 23 67 81

Address: 10 Rue de la Paix, 75002 Paris, France

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