

All Factory Electrical Distribution Boxes



Overview

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Key Takeaways

Factory electrical distribution boxes are strategically located throughout the facility, including main distribution boards, sub-distribution boards, control panels, and specialized boxes near machinery, lighting, and outdoor areas. Main Distribution Board (MDB)

The Main Distribution Board acts as the central hub for the factory's electrical system. It is typically located in a dedicated electrical room or control room near the incoming utility supply. The MDB distributes power to all sub-panels and major equipment, housing main circuit breakers, bus bars, and protective devices to ensure overall system safety .

Sub-Distribution Boards (SDB)

Sub-Distribution Boards are installed in different sections of the factory, such as production lines, workshops, or storage areas. They receive power from the MDB and distribute it to localized circuits, including lighting, machinery, and auxiliary equipment. SDBs are often wall-mounted or floor-standing depending on space and load requirements .

Control Distribution Boxes



Control distribution boxes are placed near specific machinery or automated systems. These boxes integrate relays, contactors, timers, and other control components to manage equipment operation safely. They are commonly found in assembly lines, CNC machine areas, and robotic workstations .

Lighting Distribution Boxes

Lighting distribution boxes are installed throughout the factory, including production floors, corridors, and outdoor areas. They manage lighting circuits and often include dedicated protection devices to prevent overloads .

Power Distribution Boxes

Power distribution boxes supply electricity to heavy machinery, compressors, and other high-load equipment. These are typically located close to the equipment they serve to minimize voltage drop and improve safety. They may be floor-standing or wall-mounted depending on factory layout .

Meter Panels

Meter panels are installed in utility rooms or near the main electrical entry point. They monitor energy consumption for different sections of the factory, helping with billing, energy management, and load balancing .

Outdoor and Specialized Boxes

- Pole-mounted or outdoor distribution boxes are used for external lighting, security systems, or outdoor machinery.
- Manual and automatic transfer switches are installed near backup generators or critical systems to ensure uninterrupted power supply .

Mounting and Material Considerations

- Wall-mounted boxes are common for easy access and space efficiency.
- Floor-standing boxes are used for larger loads or multiple circuits.
- Metal enclosures are preferred in industrial areas for durability, while plastic enclosures are used in lighter-duty or corrosion-sensitive environments .

Summary

In a factory, distribution boxes are strategically placed to ensure safe, efficient, and reliable power distribution. Key locations include the main electrical room (MDB), production areas (SDBs), near machinery (control and power boxes), lighting circuits, and outdoor areas. Proper placement, mounting, and protective devices are essential for operational safety and maintenance efficiency .

Article Content

PowerBox Factory

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

