

Electrical distribution box for the workshop



Summary of Content

A workshop distribution box safely distributes electrical power to multiple circuits, protecting both equipment and users while accommodating high-load tools and machinery.

Purpose and Function

An electrical distribution box, also known as a DB box, serves as the central hub for routing electricity from the main supply to individual circuits in a workshop. It houses protective devices such as MCBs, RCCBs, and RCBOs, which isolate faults to prevent damage or hazards without shutting down the entire workshop. The enclosure also prevents accidental contact with live components, ensuring user safety.

Types and Configurations

- Single-phase boxes: Suitable for small workshops with standard 230V tools and lighting.
- Three-phase boxes: Required for heavy-duty machinery, air compressors, and industrial motors, providing 400V power and balanced load distribution.
- Surface-mounted: Installed directly on walls, ideal for retrofits or industrial setups.
- Flush-mounted: Embedded into walls for a clean appearance, often used in commercial or residential-adjacent workshops.
- Pole-mounted: Designed for outdoor or utility applications.

Materials and Environmental Considerations

Article Content

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