# Production of suspended platform electrical distribution boxes

## Overview

ZLP630/ZLP800 Suspended Platform Electric Control BoxThe suspended platform control box is a high-performance Distribution Box Manufacturing Process | Cust.

## Key Takeaways

Suspended platform electrical distribution boxes are manufactured using precision-engineered materials and automated production lines to ensure safety, reliability, and compliance with international standards.Overview

Suspended platform electrical distribution boxes, also known as electric control boxes or gondola boxes, are the core power source for suspended platforms such as ZLP series platforms. They provide overload protection, emergency stop, phase loss protection, and limit switch compatibility, ensuring safe and efficient operation during high-altitude tasks like curtain wall construction, window cleaning, and painting .

Components and Features

Key components of a suspended platform distribution box include:

• Control circuits and wiring for stable power distribution

• Overload limiters and safety locks to prevent accidents

• Emergency stop buttons and intuitive operation panels

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• Durable enclosures made from galvanized or stainless steel with anti-rust coatings

• Compatibility with suspension mechanisms, hoists, wire ropes, and parapet clamps
These boxes are often customizable for OEM branding, modular layouts, and specific cable entry configurations .

Manufacturing Process

The production of these boxes involves several precise steps:

• Design & Engineering: CAD drawings and 3D models are created based on customer requirements, application scenarios, and standards such as IEC 61439, ensuring compatibility and safety .

• Material Preparation: High-quality steel or stainless steel sheets are selected, tested for thickness, hardness, and corrosion resistance, and treated with anti-rust coatings or powder paint .

• Cutting and Forming: CNC laser cutting, punching, bending, and stamping machines shape the metal sheets into enclosures. Automated production lines use uncoilers, straighteners, servo feeders, roll forming machines, and bending devices to achieve precise dimensions .

• Assembly: Electrical components, wiring, busbars, and safety devices are installed. Modular designs allow for customization of internal layouts and cable entry points .

• Testing and Quality Control: Each box undergoes functional testing, including electrical continuity, insulation resistance, and safety compliance. CE marking and EU declarations of conformity are applied for boxes intended for European markets .

• Packaging and Delivery: Finished boxes are manually packed or prepared for bulk shipment. Production speed varies by specification, typically 2–3 enclosures per minute on automated lines .

Standards and Compliance

Suspended platform distribution boxes are manufactured in accordance with:

• IEC 61439 for low-voltage switchgear and controlgear assemblies

• Low Voltage Directive 2014/35/EU and EMC Directive 2014/30/EU for European markets

• Optional compliance with other regional standards depending on customer requirements

Automation and Production Lines

Modern production lines for these boxes are highly automated, featuring:

• Adjustable height and depth forming machines

• Hydraulic pre-punching and punching notches

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• Frictional damping and bending rollers for precise shaping

• Capability to handle steel coils up to 3 tons and thicknesses of 1.0–1.5 mm This automation ensures high efficiency, consistency, and scalability for both standard and custom designs.
Conclusion

The production of suspended platform electrical distribution boxes combines advanced design, high-quality materials, automated forming, and rigorous testing to deliver safe, reliable, and compliant electrical control solutions for high-altitude work platforms. Customization options and adherence to international standards make these boxes suitable for global industrial applications .

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Production of electrical distribution boards

After the manufacturing process, the distribution box is tested and marked with CE marking, and the customer is provided with the

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