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Powder Coating Line Spraying Gun

The MPCL-SGK02 high-voltage electrostatic spraying gun is a core component of any modern powder coating line, representing the advanced technology found in today's leading powder coating machines. This process is a superior, environmentally-friendly alternative to traditional liquid painting. Unlike solvent-based coatings that emit harmful toxins, pollute the environment, and endanger operator health, the powder coating machines in a typical powder coating line use clean compressed air, ensuring a safer workplace and a greener footprint.

Integrating the MPCL-SGK02 spraying gun into your powder coating line dramatically improves material efficiency. While conventional paint utilization hovers around 60%, the electrostatic process allows for overspray recovery and reuse, pushing transfer efficiency to over 98%. This high efficiency is a hallmark of well-designed powder coating machines. Furthermore, a powder coating line simplifies production. With the right powder coating machines and a precision spraying gun, a single pass can often achieve the desired coating thickness, eliminating multiple steps and boosting productivity. The result is a durable, high-quality finish that is both cost-effective and superior in performance.

Spray Gun Body: High-quality insulating material that effectively prevents high-voltage breakdown.
Electrostatic High-Voltage Module: Imported electronic components, precision-engineered for stable performance.
Spray Gun Cable: Three-hole connectors at both ends, with cable length customizable to meet specific needs.
Spray Gun Nozzle: Made of Teflon material, available in round and flat shapes with built-in resistors, allowing flexible assembly based on actual requirements.

Working Conditions:

Power Supply: Voltage: 50Hz / 220V ± 5%

Air Source: Pressure: 0.4 MPa — 0.6 MPa

Air Consumption: Approximately 0.4 m³/min

◆ **Main Technical Specifications**

1. Power Supply: Voltage 220V ± 5% / 50Hz
2. Output Voltage: 0 kV — 120 kV, continuously adjustable
3. Output Current: 0 μA — 200 μA, automatically adjusted
4. Input Power: 50W
5. Powder Container Capacity: 60L
6. Solenoid Valve Control Voltage: DC 24V
7. Input Air Pressure: 0 — 0.6 MPa
8. Output Air Pressure: 0 — 0.5 MPa
9. Maximum Air Consumption: 13.2 m³/h (at 0.4 MPa/hour)

Spray Gun Technical Parameters:

1. Input Air Pressure: Less than or equal to 0.55 MPa
2. Powder Output: 50 — 550 g/min
3. Output Voltage: 0 kV — 120 kV
4. Output Current: 0 μA — 200 μA
5. Spray Gun Weight: 480g
6. Spraying Distance: 15 cm — 20 cm