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Canglan Technology WX-958

Canglan Technology WX-958 Electrostatic Powder Coating System User Manual

1. Introduction

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of the Canglan Technology WX-958 Electrostatic Powder Coating System. Please read this manual thoroughly before operating the equipment to ensure proper usage and to prevent potential hazards.
The WX-958 system is designed for applying a uniform and durable powder coating finish to various materials, utilizing advanced electrostatic technology for optimal adhesion and efficiency.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in serious injury or equipment damage.

- **Electrical Safety:** Ensure the unit is properly grounded. Do not operate with damaged cables or connections. Always disconnect power before performing maintenance or cleaning.
- **High Voltage:** The system generates high voltage. Avoid direct contact with the spray gun nozzle and coated objects during operation. Maintain a safe distance.
- **Respiratory Protection:** Always wear appropriate respiratory protection (e.g., a respirator) to prevent inhalation of powder particles.
- **Ventilation:** Operate the system in a well-ventilated area to prevent the accumulation of powder dust, which can be combustible.
- **Fire Hazard:** Keep flammable materials away from the coating area. Ensure proper grounding to dissipate static charges and prevent sparks.
- **Personal Protective Equipment (PPE):** Wear safety glasses, gloves, and protective clothing to prevent skin and eye contact with powder.

3. Product Overview and Components

The Canglan Technology WX-958 system consists of several key components working together to achieve efficient powder coating.



Figure 3.1: The complete Canglan Technology WX-958 Electrostatic Powder Coating System, showing the control unit, powder hopper, and spray gun assembly.

Main Components:

- **Control Unit:** Houses the electrical and pneumatic controls, including voltage and current adjustments, and air pressure gauges.
- **Powder Hopper:** A 40L capacity stainless steel container for holding the powder coating material.
- **Electrostatic Spray Gun:** Applies the powder to the workpiece with an electrostatic charge.
- **Air Hoses and Cables:** Connect the components for air supply and electrical signals.



Figure 3.2: The 40-liter powder hopper, designed for efficient powder storage and delivery.



Figure 3.3: Close-up view of the WX-958 control panel, showing gauges for powder, air, rinsing air, and digital displays for kV and uA.



Figure 3.4: Rear view of the control unit, illustrating the various air inlets, electrical connections, and grounding points.

4. Specifications

Feature	Specification
Input Power	40W
Input Power Voltage	110V/220V, 50-60Hz
Output Power Voltage	0 ~100KV Negative
Output Current	0~200uA
Weight of Gun	480g
Length of Gun Cable	4m
Powder Hopper Capacity	40L
Work Temperature Range	-10°C to 45°C
Package Size	48.5 x 47 x 59 cm
Weight (packaged)	25kg
Material	Metal
Manufacturer	Canglan Technology

5. Setup Instructions

1. **Unpacking and Inspection:** Carefully unpack all components. Inspect for any shipping damage. Report any damage to the supplier immediately.
2. **Assembly:** Assemble the control unit onto its stand. Connect the powder hopper to the main unit. Attach the spray gun cable and air hoses to their respective ports on the control unit and gun.
3. **Electrical Connection:** Connect the power cord to a grounded electrical outlet (110V or 220V, depending on your model and region). Ensure the power switch on the control unit is in the 'OFF' position before connecting.
4. **Air Supply Connection:** Connect a clean, dry compressed air supply to the 'Air In' port on the control unit. Ensure the air pressure is within the recommended operating range (typically 0.5-0.8 MPa, refer to control unit gauges).
5. **Grounding:** Connect the system's grounding cable to a reliable earth ground. Proper grounding of both the system and the workpiece is critical for safe and effective electrostatic coating.
6. **Powder Loading:** Open the powder hopper lid and carefully pour the desired powder coating material into the hopper. Do not overfill. Close the lid securely.

6. Operating Instructions

1. **Preparation:** Ensure the workpiece is clean, dry, and properly grounded. Wear all required PPE.
2. **Power On:** Turn the main power switch on the control unit to the 'ON' position.
3. **Adjust Settings:**
    - **KV (Kilovoltage):** Adjust the kV knob to set the desired output voltage. Higher kV generally provides better wrap-around and transfer efficiency. Start with a lower setting (e.g., 30-50kV) and adjust as needed.
    - **uA (Microamperes):** This indicates the current flow. Adjusting kV will affect uA. Monitor this to ensure stable operation.
    - **Powder Air:** Adjust the 'Powder' air pressure gauge to control the amount of powder delivered to the gun.
    - **Atomizing Air:** Adjust the 'Air' gauge to control the air that atomizes the powder at the gun nozzle, affecting the spray pattern.
    - **Rinsing Air:** Adjust the 'Rinsing air' gauge for internal cleaning of the gun.
4. **Test Spray:** Before coating your workpiece, perform a test spray on a scrap piece to verify settings and spray pattern.
5. **Coating Application:** Hold the spray gun at an appropriate distance (typically 6-10 inches) from the workpiece. Maintain a consistent speed and overlap passes to ensure an even coating.
6. **Curing:** After coating, transfer the workpiece to a curing oven according to the powder manufacturer's specifications.
7. **Power Off:** Once coating is complete, turn the main power switch to 'OFF'. Disconnect the air supply.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your WX-958 system.

- **Daily Cleaning:** After each use, clean the spray gun thoroughly to prevent powder buildup. Use compressed air to clear powder passages. Clean the powder hopper if changing colors or for long-term storage.
- **Nozzle and Electrode Maintenance:** Inspect the gun nozzle and electrode for wear or damage. Replace as needed to maintain spray pattern and electrostatic charge.
- **Air Filters:** Regularly check and clean or replace the air filters on the control unit to ensure a clean and dry air supply.
- **Grounding Connections:** Periodically inspect all grounding connections for corrosion or looseness. Ensure they are secure and provide good electrical contact.
- **Cable Inspection:** Check all electrical cables and air hoses for signs of wear, cuts, or damage. Replace any damaged components immediately.

8. Troubleshooting

This section addresses common issues you might encounter with the WX-958 system.

Problem	Possible Cause	Solution
No powder flow	Clogged gun nozzle; insufficient powder in hopper; low powder air pressure; powder clumping.	Clean nozzle; refill hopper; increase powder air pressure; ensure powder is dry and free-flowing.
Uneven coating / Poor adhesion	Improper kV setting; poor grounding of workpiece; inconsistent spray technique; contaminated workpiece.	Adjust kV; verify workpiece grounding; practice consistent spray motion; clean workpiece thoroughly.
No high voltage output	Power not connected; faulty cable; internal fault.	Check power connection; inspect cables; contact support if issue persists.
Excessive powder waste	Too high powder output; incorrect spray distance.	Reduce powder air pressure; adjust spray distance.

9. Warranty and Support

The Canglan Technology WX-958 Electrostatic Powder Coating System comes with a**one-year warranty** from the date of purchase, covering manufacturing defects. This warranty does not cover damage resulting from improper use, neglect, or unauthorized modifications.

For technical support, warranty claims, or spare parts, please contact Canglan Technology directly. Refer to your purchase documentation for specific contact information or visit the official Canglan Technology website.

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