

S20 Powder coating machine

High Performance • Easy to Use • Stable & Reliable

Spray Gun Categories

1. Manual Spray Guns

- Hopper-Feed Spray Guns



- Box-Feed Spray Guns



2. Automatic Spray Guns



S20 Authorized Patents & Software Copyrights:

1. Domestic Invention Patent: 1
2. International Invention Patent: 1
3. GUI Patent: 1
4. Design Patent: 1
5. Computer Software Copyright: 1



M2 Demonstration Videos

S20 Manual & Automatic Spray Gun—Full Showcase:

<https://www.youtube.com/watch?v=g25G3O1wTbQ>

Brief introduction to the function of S20 powder coating machine, Touch screen operation:

https://www.youtube.com/watch?v=_equvdBBOEs

Automatic spraying of door handles, using JOBON S20 powder coating gun:

<https://www.youtube.com/watch?v=VsDVnScBhSg>

S20 electrostatic powder spraying machine, fast spraying at Faraday angle position.

<https://www.youtube.com/watch?v=AWsC7ezqISM>

The box with a depth of 160mm will realize automatic powder coating, using S20 powder coating gun:

https://youtu.be/jj_GFHw02cl

Horizontal aluminum profile automatic spraying line, M2 type powder coating gun is competent:

<https://www.youtube.com/watch?v=MfA7Oz2r5Cw>

S20 Coating Performance on Huawei 5G Base Station Heat Sinks:

<https://www.youtube.com/watch?v=A-NmBjhqH7g>

M2 Basic Parameters

Item	M2 Specification
Power	AC 100–240 V, 50/60 Hz (Automatic Adaptation)
Max Power	50 W
Safety Level	IP54
Ambient Temperature	0–40 °C (+32–+104 °F)
Input Pressure	0.555MPa (5.5 bar, 80 psi)
Water Concentration in Compressed Air	≤ 1.3 g/m ³
Oil Concentration in Compressed Air	≤ 0.1 mg/m ³
Electrostatic Polarity	Negative
Max Output Voltage	150 kV
Max Output Current	120 μA
Gun Cable Length	4 m
Powder Pipe Length	4.5 m
Max Powder Output	550g/min

M2 Automatic Powder Coating Machine

1. Venturi Tube Replacement Reminder

The Smart Venturi Tube Replacement Reminder prevents coating defects, reduces consumable waste, and eliminates the need for manual inspection every shift.

2. Automatic Venturi Tube Wear Compensation

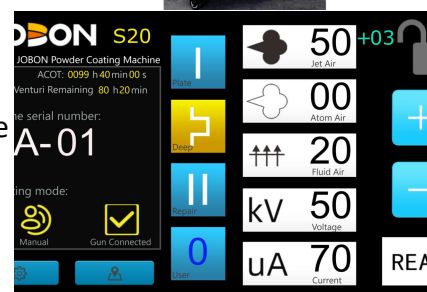
Automatic Venturi Tube Wear Compensation ensures stable powder output and consistent coating performance without manual adjustment.

3. Master-Slave Control

One unit can be set as the **Master**. All connected Slave Units automatically follow its start/stop commands.

4. RS-485 Communication

MODBUS-compatible RS-485 communication enables real-time parameter switching during robotic spraying for more precise and consistent coating results.



Why Choose S20 and What You Get?

1. Improved Ability to Overcome the Faraday Cage Effect

Delivers better powder penetration into deep grooves, corners, and recessed areas, achieving more complete and uniform coverage while significantly reducing manual touch-up and rework.

Solves challenging coating problems, such as deep grooves and corners.



2. Higher First-Pass Transfer Efficiency

More powder is effectively deposited on the workpiece in the first pass, reducing powder waste and re-spraying while lowering coating costs and improving production efficiency.

Most Powder Deposits on the Workpiece with Almost No Overspray



3. Enhanced Automatic Backside Coating Coverage

Delivers excellent powder wrap-around performance for better coverage of the backside, edges, and hard-to-reach areas, reducing manual touch-up and improving overall coating efficiency.

One-side spraying delivers complete two-side coverage



4. Enhanced Electrostatic Attraction Force

Provides stronger and more stable powder adhesion, helping reduce powder loss, improve coating uniformity, and achieve higher first-pass coating efficiency.

Powder stays firmly attached, reducing powder loss and ensuring stable coating quality.



5. Higher Coating Stability

Designed for stable 24/7 continuous operation, ensuring consistent coating quality even during long-term production.

6. Automatic Film Thickness Control

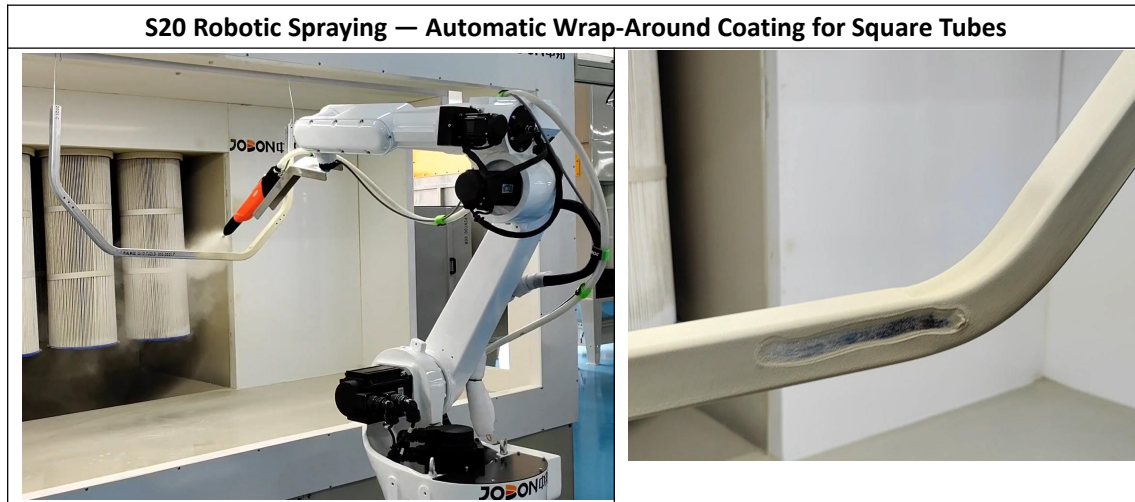
Automatically controls coating thickness to prevent excessive powder buildup, ensuring a more uniform and consistent finish.

Metal Workpiece Coating- Automatic Thickness Control



7. Automatic Parameter Switching for Robotic Coating

Works seamlessly with robots to enable automatic parameter switching during spraying, dynamically adapting coating parameters to different areas of the workpiece for more precise and efficient coating than manual spraying.



★What You Get

- **Lower Production Costs**

Higher powder utilization and less powder waste reduce powder consumption, recovered powder and overall coating costs.

- **Easier Operation, Less Skill Dependency**

Simple operation reduces reliance on highly skilled workers, making training easier and production more consistent.

- **Better Coverage, Less Rework**

Excellent coating performance on grooves, corners and other complex areas minimizes manual touch-up, reduces defects and lowers rework costs.

- **Higher Efficiency, Easier Automation**

Less manual intervention and more stable coating performance improve production efficiency and make automation easier to achieve.

Why Choose JOBON and What You Get?



About JOBON

Qingdao JOBON Science & Tech Development Co., Ltd. is a professional manufacturer specializing in **electrostatic powder coating equipment and complete powder coating solutions.**

Founded in 2005, JOBON integrates **R&D, manufacturing, engineering, and technical service.** With more than 20 years of experience in the powder coating industry, we have developed our own brands **JOBON** and **PENTOO**, and accumulated extensive expertise in electrostatic spraying technology.

Our product range covers **manual and automatic powder coating guns, powder coating booths, curing ovens, powder recovery systems, reciprocators, and complete powder coating lines.** We provide both standard equipment and customized solutions according to customers' workpieces, production capacity, coating requirements, and factory layout.

JOBON focuses strongly on **spraying performance, coating quality, powder-saving, automation, and equipment reliability.** Our S20 series, for example, features deep-groove and Faraday-cage coating capabilities, automatic thickness control, and compatibility with robotic/PLC automation.

Our products have obtained relevant certifications including **CE and ATEX**, and have been exported to customers in **Japan, the United States, the United Kingdom, Mexico, Russia, Australia, Canada, Saudi Arabia, Colombia, the UAE, and many other markets.**

We believe that supplying equipment is only the beginning. Our goal is to help customers achieve **better coating quality, higher production efficiency, lower powder consumption, and more reliable long-term operation.**

JOBON — Better Performance, Better Service.

Industry Recognition

- ISO 9001 Quality Management System Certified
- National High-Tech Enterprise
- Executive Council Member of China Surface Engineering Association
- Executive Council Member of the Coating Branch, China Surface Engineering Association
- Deputy Chairman Unit of China Enamel Industry Association
- Member of the National Standardization Technical Committee
- China Enamel Equipment Engineering Technology Research Center
- Postgraduate Training Base of Donghua University
- Qingdao Technology Innovation Center
- Qingdao Specialized and Innovative Enterprise
- New Fourth Board Listed Enterprise
- Equipment Supplier to Haier
- 70+ National Patents, 1 International Patent & 5 Software Copyrights
- Main Products Certified with CE & ATEX
- Products Exported to Germany, Italy, USA, Japan, UK, France, Russia, Australia, Mexico, Canada and More

★What You Get

- **Reliable Equipment**



Stable spraying performance and reliable components for long-term operation.

- **Coating Quality**

Better powder penetration into deep grooves and Faraday cage areas, helping you achieve more uniform coating.

- **Powder Consumption**

High first-pass transfer efficiency helps reduce powder waste and operating costs.

- **Automation**

Compatible with robots and PLC systems, making automated spraying easier to achieve.

- **Customized Solutions**

Equipment and complete coating lines can be customized according to your workpieces, production capacity, and workshop layout.

- **After-Sales Support**

Professional technical support, installation guidance, spare parts, and troubleshooting assistance.

- **Warranty**

1-year warranty for the complete machine and 2-year warranty for core components.

- **Complete Solution**

From powder spraying equipment to booths, ovens, recovery systems, and complete coating lines, we can provide an integrated solution.

Official Website: <https://www.joboncoating.com/>

Facebook Page: https://www.facebook.com/JOBONcoating?locale=zh_CN

YouTube Channel: <https://www.youtube.com/@joboncoating>