

Solar Photovoltaic Thin Film Spray Coating Equipment

Argus 9524S Single-Sided HVLP Spray Unit



Argus International has provided spray equipment to customers around the world for a variety of applications. Now, Solar Panel Manufacturers turn to Argus for Thin Film Spray Technology.

Applications include spraying primary resist, cadmium chloride, copper acetate, and several other sprayable chemistries used for solar panel processes. The 9524S can spray solar panels ranging from 6 to 24 inches wide with an optional maximum width of 26.5 inches. Panels of any length are coated precisely, with controlled thickness and uniform coverage. The wide operation window, user-friendly touch screen interface, and simplicity of access for cleaning and maintenance make the Argus 9524S Single-Sided HVLP Spray Unit an excellent choice for Thin Film Coating.

Argus International's spray technology has been proven by our customer base to be superior to other methods of spray coating applications. A single traversing spray head enhances efficiency by reducing setup time and machine maintenance. High Viscosity Low Pressure (HVLP) Heated Gun Technology allows use of high-solids for increased efficiency, less material waste, and minimized environmental impact.

| Argus 9524S Single-Sided HVLP Spray Unit | |
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| Function | Thin Film Spray Coating System |
| Major Features | Precise Heated Spray Gun Control and Technology Single Spray Head for Uniform Spray Control - No Multiple Gun Balancing Minimal Overspray for Less Material Waste Precise Thin Film Spray Coating Control on Any Surface Exhaust Flows in the Direction of Spray for Optimal Spray Efficiency Rugged Conveyor Designed to Withstand and Convey Heavy Materials 10.4 Inch Operator Touch Screen Command Center Built-in Window Ports on Both Sides to View Spraying Process Easy Accessibility of Parts for Convenience in Cleaning and Maintenance |
| Panel Size | 6 to 24 Inches Wide by Any Supported Length Optionally up to 26.5 Inches Wide Per Customer Request |
| Oven Integration | Integrates with Argus 9724 Cross-Convection IR Drying Ovens |

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The Argus 9524S Single-Sided HVLP Spray Unit utilizes advanced spray technology to apply uniform coatings to solar panels. This is accomplished by sweeping the heated gun across the solar panel at high speeds as the solar panel passes through the spray chamber on a continuously moving edge-contact conveyor. This provides an efficient, reliable system which minimizes over-spray and produces a continuous, conveyORIZED throughput of the coated solar panels.

Key Benefits:

- Heated Spray Gun Technology has improved the ability of HVLP systems by reducing the usage of solvent as a Volatile Organic Compound (VOC) component.
- Settings are retained for stable processes even with operational stops or unexpected interruptions.
- Auto-Mode feature for automated controlled horizontal production lines.
- Typical spray operation provides 140 to 150 square feet of 1 mil thick dry coating per kilogram of spray material; this easily equals or exceeds the efficiency and economy of other methods of application.
- Simplicity of setup, speed of operation and uniformity of performance are supported by the single spray gun system. The 9524S is not subject to multiple gun spacing, placement, adjustment and pattern problems that can lead to inconsistent coating thickness. Our HVLP conveyORIZED spray does not require ultrasonic atomization.

Please contact Argus International to confidentially discuss your production plans.