SDV-100

SDV-100 is designed to meet the demanding requirements of continuous, high-volume production. Built with precision and reliability at its core, the system delivers exceptionally uniform plasma treatment while ensuring operational safety and ease of use.

SDV-100 integrates a dry vacuum pump, plasma chamber, and power supply into a compact, space-saving design that minimizes footprint. The plasma chamber is seamlessly stir-welded from aircraft-grade aluminum, ensuring long-term durability and superior sealing.

To meet diverse customer needs, the plasma power supply can be configured with either a 13.56 MHz Radio frequency source or a 40 KHz Medium Frequency source, allowing customization for different product specifications.

SDV-100 combines performance, reliability and user-friendly design, making it the ideal solution for manufacturers seeking efficient and affordable plasma surface treatment.

Features:

- The chamber utilizes high-standard manufacturing processes to maintain excellent leak rates over time, ensuring process stability and production safety.
- High operational efficiency, meeting the demands of continuous high-volume production.
- A variety of chamber sizes are available for flexible customization to meet diverse product and process requirements.

Applications:

- Semiconductor industry: chip bonding, lead frame, BGA, dispensing, etc. to effectively remove surface organic residues.
- LED Industry: Silver glue dispensing, pre-die bonding, wire bonding, and packaging, to remove contaminants, increasing bonding strength, reducing bubbles, and improving luminous efficiency.
- PCBA: Plasma treatment can improve the adhesion and uniformity of conformal coatings, avoid defects such as bubbles and delamination, while reducing coating thickness and improving heat dissipation and signal transmission performance.
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Specifications

Dimensions		
1	Footprint	L1068×W886×H1768mm
2	Weight	500Kg
Plasma Generator		
3	**Power frequency**	Radio Frequency13.56Hz; （Option: Medium Frequency 40KHz, 0-1000W）
4	**Standard Wattage**	0-600W
Vacuum system		
5	**Vacuum pump**	Dry pump(VSP60)：50m³/h; Option: wet pump
6	**Vacuum pipe**	All stainless steel pipes, and high-strength vacuum bellows
7	**Chamber material**	Aluminum alloy
8	**Thickness**	25mm
9	**Sealing property**	Military grade welded seal
10	**Chamber**	450×450×500mm(W×H×D)
11	**Electrode working area**	322×351mm (W×D)
12	**Electrode Pitch**	20mm
13	**Electrode plate layout**	Horizontal
14	**Pallet**	Standard one set. Aluminum or steel mesh
15	**Workspace**	8 layers
Process Gas		
16	**Gas**	O2/Ar/N2/H2/CDA and other gases (specific gases are subject to actual needs)
17	**Flow range**	0~300SCCM
18	**Gas inlets**	Standard 2 channel
Facilities		
19	**Power supply**	AC380V, 50/60Hz, 5-wires, 25A (the total air switch is selected as C-type or above)
20	**Exhaust**	Flow: 2.0m³/min
21	**Gas requirements**	Flow: 1~10 L/min Pressure: 3~7 kg/cm² Pipe diameter: 6×4 mm Material: PU tube Purity: more than 99.99%
22	**Pneumatic Gas Purity**	Flow: 1~10 L/min Pressure: 3~7 kg/cm² Pipe diameter: 8×5 mm Material: PU tube Dewpoint: below of -40°C Particle > 0.3μm：10Pcs/ft³
Compliance		
23	**International Certificate**	CE