



SPECIALTY COATING SYSTEMS™



SCS P3201 Dip Coater

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The SCS P3201 is a precision dip coating system for coating of printed circuit boards in a production setting. This system can be used to apply urethane, epoxy, silicone and acrylic coatings, as well as photoresists and solder mask materials.

This efficient dip coating system uses a stationary tank and an air-over-oil cylinder mechanism to move circuit assemblies into and out of the coating. It meets NFPA-79 conformance for Class I, Group D explosion-proof standards for a Division I environment. A stainless steel tank cover minimizes vapor loss.

The SCS P3201 makes efficient use of coatings and ensures complete coverage on both sides of coated assemblies. Accurate immersion control eliminates the need to mask areas that remain above the dip line.

- Powered by compressed air-over-oil cylinder for smooth, explosion-proof operation

- Adjustable immerse and lift speeds, 1 to 24 inches per minute
- Dip assembly supports multiple boards per dip cycle
- Removable tank for fast, easy coating changes
- Independently adjustable immersion and withdrawal rates

SCS P3201 Optional Features

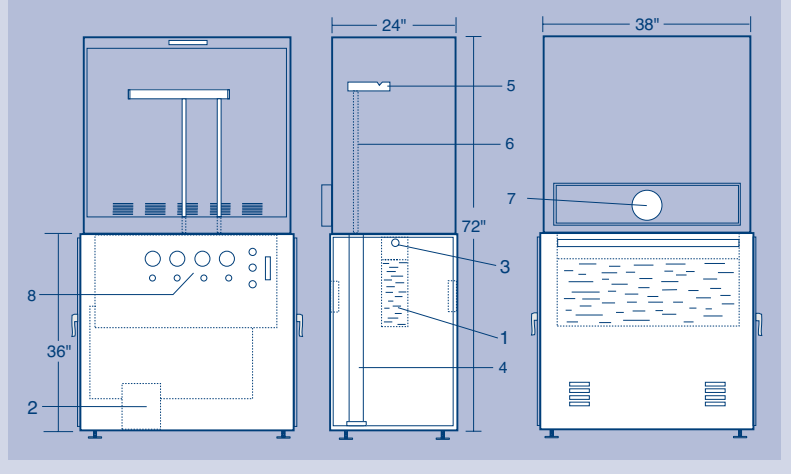
- Circulation pump and overflow dam
- Stainless steel piping for circulation pump in lieu of brass piping
- 225 micron coating filter (circulation pump option must be purchased with this option)
- Dip dwell (0-30 seconds)
- Tank air blanket and flow meter
- PTFE coated tank
- Exhaust hood enclosure

SCS P3201 Specifications

Unit size (W x D x H)	38 x 25.75 x 39 in. / 96.5 x 65.41 x 99 cm
Tank size (L x W x D)	27 x 7 x 19 in. / 68.6 x 17.78 x 48.3 cm
Tank Drain	0.5 in. / 1.27 cm
Immersion capacity	Up to 13 in. (33.0 cm), with 6 in. (15.2 cm) freeboard
Immersion rate	1 to 24 in./min. / 2.54 to 61 cm/min.
Withdrawal rate	1 to 24 in./min. / 2.54 to 61 cm/min.
Dip depth	Adjustable by sensor position
Actuation	Compressed air at 15 cfm / 80 psi (25.5 m ³ /hr/5.5 bars), oil and moisture free
Exhaust	200 CFM (340 m ³ /hr) with optional hood enclosure

SCS P3201 Dimensions

1. Dip tank
2. Circulation pump (optional)
3. Gas blanket manifold (optional)
4. Hydraulic actuation cylinder
5. Cross rod support rack
6. Lift travel control bar
7. Exhaust plenum
8. Control panel



Innovative solutions for advanced technologies.

Specialty Coating Systems leads the industry in providing Parylene solutions for its global customers' advanced technologies. SCS is a direct descendant of the companies that originally developed Parylene, and we have more than 40 years of experience and expertise that we leverage on every project for our customers—from the initial planning phases, to advanced engineering, to the development of application processes.

Our worldwide resources include highly experienced sales engineers, some of the world's foremost Parylene specialists, and expert manufacturing personnel, working in eleven state-of-the-art coating facilities around the globe. In addition to Parylene coating services, we design and manufacture industry-leading Parylene deposition systems; liquid spray, dip and spin coating systems; ionic contamination test systems; and UV and thermal cure units. Our equipment is used in environments that range from university and research labs to high-volume production applications.

Our extensive and proactive approach to production and quality requirements—testing, validating, documenting and processing—provides our customers peace of mind and minimizes their resources needed to meet the most challenging industry specifications and quality requirements.



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