

SCH Technologies

Conformal Coating Services, Equipment,
Technical Support & Humiseal Materials.

DS101 Conformal Coating Dip System

Overview

Automatic Dip Coating is one of the most efficient methods for application of conformal coatings and is excellent for all volume production whether large or small.

The process of dipping circuit boards into a conformal coating material contained in a tank ensures complete coverage, including underneath components and around difficult large 3D boards and there is no over spray or material wastage

Specification

The DS101 Conformal Coating Dip System is a precision built, floor standing, conformal coating dip machine for medium to high volume batch processing of printed circuit boards.

Operating completely on compressed air and utilising an air over oil pneumatic system, the DS101 dip coating system offers total precision regulated speed control to allow a wide range of conformal coatings to be correctly coated and an unparalleled repeatable high tolerance of coating thickness to be achieved.

Being entirely pneumatic the machine is safe to use with flammable materials, and the automatic dip cycle process provides a smooth immersion and withdrawal rate which eliminates air entrapment and ensures an even film.

Standard Features

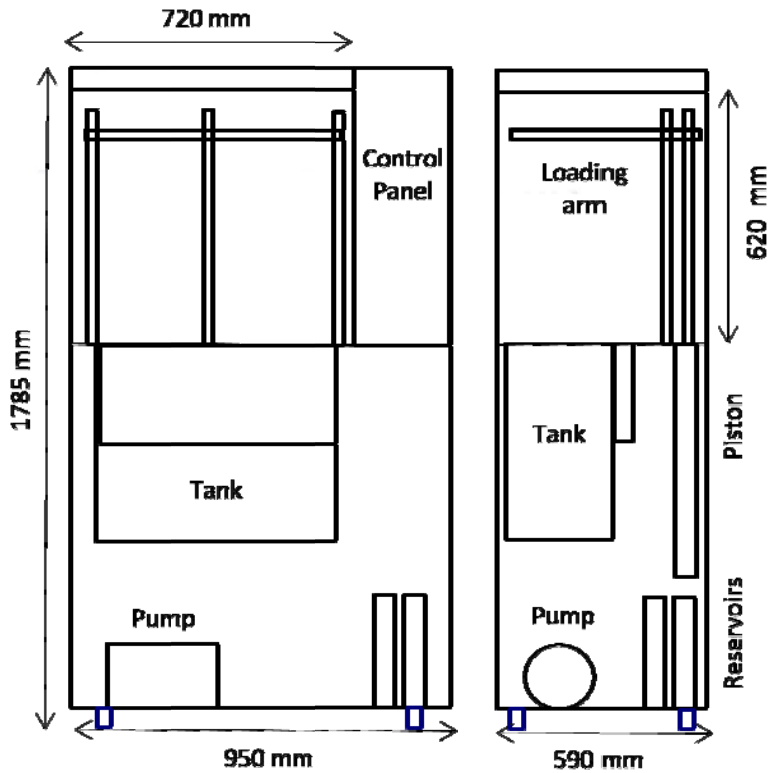
- A pneumatically driven control & pump system operating from a single air inlet to meet the most stringent H&S needs
- Front-mounted control panel for easy operation
- Constant levelling re-circulating weir system
- Multiple horizontal support rods on dipping arm
- Transparent doors fitted for minimal exposure to operators
- Compatible with solvent, silicone and water based coatings
- Flow cup and stop watch for material viscosity control
- Fume extraction hood and spigot
- Fixed steel rule to calibrate dipping speeds
- RoHS compliant system



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Schematic of DS101 Layout



The system is constructed of powder coated steel frame with solvent resistant stainless tank internal panels and tank.

Options

- Solvent Exposure alarm fitted in-situ or stand alone
- Teflon coated tank and panels
- Custom tank and dip system sizes
- Stainless steel weir catch tray
- Argon gas flow monitor and gas manifold
- Automatic viscosity control and top up system
- Customised PCB jigging and carriers

Facilities

- Clean, dry, compressed air at 80 psi
- 150mm extraction connection for solvent based & hazardous coatings
- 475 cfm for extraction with doors open, 30 cfm doors closed

System Specification

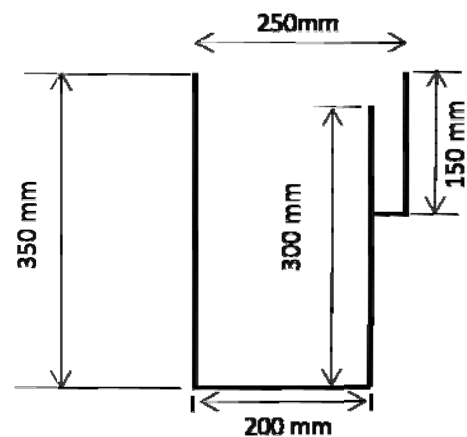
The DS101 measures (approx) 1795 mm high x 950 mm wide x 590 mm deep.

The standard stainless steel dip tank usable area is approximately 600 mm long x 200 mm wide x 300 mm deep with a 50mm wide rear weir, 150mm deep for easy clean.

Range of dip speed: 0-150mm/min

Tank Capacity: approx 40 litres.

Weight: approx 155kg excluding coating



Tank Dimensions

SCH Technologies offer

- Conformal coating Subcontract Services
- Global supply of Conformal Coating Application Equipment
- Humiseal Conformal Coatings
- Conformal Coating Training courses
- Conformal Coating Consultation & troubleshooting

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www.conformalcoating.co.uk