DC 2000
Precision Dip Coater

ENGINEERING RELIABILITY IN ELECTRONICS

General Description

The DC2000 is a small, laboratory batch coating system designed for the high precision application of conformal coatings and photo-resists onto substrates by dip-coating.

A pneumatic air-over-oil system ensures that the substrate carrier exhibits a smooth, "judder-free" motion during immersion and withdrawal strokes. Its speed can be adjusted with great accuracy to suit the viscosity of a wide range of materials. This results an extremely smooth, even finished coating.

An argon gas layer is recommended in the top of the tank to minimise loss. A stainless steel tank plus an argon gas manifold are available as an option.

Model DC 2000 Laboratory Precision Dip Coater

The base unit measures 405 mm (16") long x 311 mm (12.25") deep x 355 mm (14") high and is constructed upon a profiled aluminium frame covered with solvent resistant coated steel panels. The top of the coater uses a Grade 304 electro-polished stainless steel support plate with a pre-cut slot to accommodate a Grade 304 electro-polished stainless steel tank. The tank is equipped with handles to facilitate easy removal. This feature is useful for customers using a number of different coating materials and who wish to use extra (optional) spare tanks.

The tank is 220 mm (8.5") long x 76 mm (3") wide x 220 mm (8.5") deep. The stroke of the lift cylinder is 250 mm (10").

This allows dipping of a substrate of up to 210 mm (8") x 190 mm (7.5").

Scope of Supply

The DC 2000 Laboratory Precision Dip Coater supplied complete includes:

- Lift cylinder and air-over-oil reservoirs
- Lower dip limit switch/return valve
- Stainless steel tank holding approximately 3.5 litres of material (~1 USG)
- Stainless steel tank cover/lid
- Substrate carrier

The control panel mounted on the front left side of the machine includes:

- Start/Stop switch
- Immersion and withdrawal speed controls
- System air indicator
- On/Off key switch

The DC2000 is a small, laboratory coating system designed for the application of conformal coatings and photo-resists to substrates by precision controlled dip-coating

DC2000 - Lab Scale

Accessories include:

- Additional stainless steel tanks
- Support frame for up to three spare tanks
- GEN3 SYSTEMS Flow cup and stop-watch

Options

- Xylan® coating to stainless steel tank
- Argon gas manifold

Facility Requirements

The DC 2000 requires clean, compressed air at 3 to 5.5 bar pressure (45 - 80 psi) supplied at a rate of 0.0024 m^3/s (or 5 cfm).

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