TECHNICAL DATA SHEET

Dip Coater DC 2000 NANO

Precision dip-coating system

PRODUCT DESCRIPTION

The Gen3 DC 2000 NANO is a precision dip-coating system. It coats substrates with layer thicknesses from <60 nm to >150 µm at ±3 % accuracy. Applications include conformal coatings, paints, photoresists, and coatings for solar cells, LCD displays and optics.

Immersion and withdrawal speeds are independently adjustable and below 0.5 mm/s. Movement is judder-free thanks to the Oleo-Pneumatic Circuit (OPC). The system operates entirely on compressed air and is therefore also suitable for flammable liquids.



Dip Coater DC 2000 NANO

FEATURES

- Fully air-operated, also suitable for flammable liquids
- Independently adjustable speed for immersion and withdrawal
- Judder-free operation via the Oleo-Pneumatic Circuit (OPC)
- Start/stop switch with override and pneumatic key switch
- Lockable controls and dwell timer
- Low-level limit switch for the dip actuator rod
- Tank and tank support of electropolished stainless steel type 304
- Jig support bar, square or round

OPTIONS AND ACCESSORIES

- Fume cabinet/workstation with drip tray, two hanging rails for PCBs, 102 mm (4") extraction spigot and removable extraction grille
- Xylan® (PTFE) coating of process surfaces
- Spare tank (removable)
- Optional pump: enables customised tank sizes
- Wooden crate for international shipment

TECHNICAL SPECIFICATIONS

Type	DC 2000 NANO, laboratory version
Stroke	Up to 300 mm (12 in)
Standard tank size (L × W × D)	220 mm × 80 mm × 220 mm (3.75 l)
Maximum tank size (L × W × D)	300 mm × 120 mm × 300 mm
Speed	< 0.5 mm/s, independently adjustable for immersion and withdrawal
Accuracy	±3 % FSD over the full range
Coating thickness	<60 nm to >150 µm at ±3 % accuracy
Drive	Fully air-operated
Compressed air	2.4 l/s (5 cfm) at 5.5 bar (80 psi)
Tank material	Stainless steel type 304, electropolished
Housing	Aluminium frame with solvent-resistant coated steel panels
Warranty	1 year on parts from delivery
Manufacturer	Gen3 Systems Limited, Farnborough, Hampshire (UK)

NOTES

- Customised tank sizes are possible with the optional pump.