

NANO-COAT Ultra Precision Dip Coating Sysems

The Gen3 NANO-Coat Systems may be used with all coating types for the very widest range of applications:

Solar-cell coatings

Photovoltaic Cell

Nano-coatings

LCD panels

Wafers

Glass panels and plates

Optics and Lenses

Conformal Coatings

Paints and other finishes

Photo-Resists



Precision coating from <60nm to >150 μ m @ \pm 3% accuracy

Ultra precise application of coatings onto a variety of substrates guaranteeing:

Speed control: < 0,5 mm/second on BOTH immersion and withdrawal

Accuracy: ±3%FSD (Over the full range)

Stroke Range: ~35 mm to >2 meters

Totally judder-free operation using our unique (OPC) Oleo-Pneumatic Circuit

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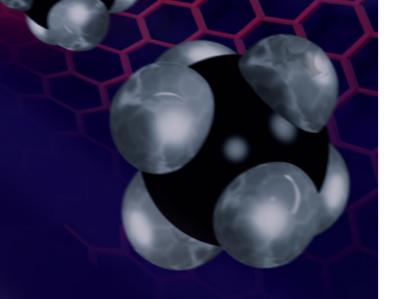
Glass panels and plates

Optics and Lenses

Conformal Coatings

Paints and other finishes

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NANO-COAT Dip Systems can apply coatings from <60nm to >50 μ m @ >3% accuracy.

Being totally air operated, NANO-Coat Dip Systems are totally safe to use with all coatings including flammable liquids.

Standard Features:

- Stainless Steel (Type 304) Dip Tank and tank surround
- Independently variable speed control of immersion and withdrawal strokes
- Lift cylinder and air-over-oil reservoirs
- Guide and dip actuator rod with low level limit dip actuator switch
- Stroke reversing valve

Control Panel c/w:

- Start/Stop switch with override and pneumatic key-switch
- Variable speed controls, dwell timer, pump drive (where applicable) – all lockable
- Jig support bar square or round profile

Constructed with an aluminium box frame chassis with solvent resistant coated steel panels. The standard tank and tank support plate is fabricated from electro-polished type 304 stainless steel.

The system requires compressed air at 2.4 litres per second (5 cfm) at a pressure of 5.5 bar (or 80 psi).



DC 2000 NANO Work Station



DC 2002 NANO

The NANO-COAT range comprises:

DC 2000 NANO Stroke / Dip range = up to 300 mm (12 inches)

Standard size = $220L \times 80W \times 220D \text{ mm}$ (3.75Ltrs)

Maximum Tank size = $300L \times 120W \times 300D$ mm

Note: if an optional pump is selected Custom sized tanks may be specified.

DC 2002 NANO Stroke / Dip range = up to 700 mm (27 inches)

Standard Tank size = $600L \times 250W \times 350D$ mm Custom sized tanks may be specified up to maximum dimensions of: $965L \times 200W \times 700D$ mm

DC 2003 NANO Stroke / Dip range = up to 2000mm (6 feet)

Custom sized tanks may be specified.

DCC NANO Gen3 Systems can also supply the Dip Control Circuit mounted onto an independent frame to facilitate a totally selfcontained mechanism that can be mounted over existing dip tanks / drying or curing stations.



DC 2003 NANO

NANO-COAT Options:

RPS - Recirculating Pump System for constant coating level control ±0,5 mm Pump options include: Parastaltic – Piston – Double-Diaphragm – Rotary – Screw etc..

PDC - Precision Depth Control – only available with RPS Option. This comprises Vernier Scales providing depth accuracy <0,01 mm

FX - Fume extraction cover and spigot to control solvent vapour release – Standard on DC2002 NANO (Does not include fan)

AVC - Automatic Viscosity Control. This provides control to better than ±10 mPa

GIS - Gas Inerting System. This permits
Argon (Ar) or Nitrogen (N) gas to be
injected over the coating material
within the tank. NOTE: This will include a
minimum 50mm clearance between the
tank top and the coating within the tank

FDS - Fume Detection System

MF - Micro Filtration with bypass to suit client's material

AR - Coating material Auto-Refill system

LI - Light Isolation package for light sensitive coating materials

TTC - Tank Temperature Control

XY - Xylan® (PTFE) coating to process surfaces

CT - Stainless steel Catch Tray complete with manual extractor rods to recover items that may fall into the tank

JIG - Jigs to handle the items for coating



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