

## **SMT NC-400 Nano Coating Dip Machine - outline technical specification**

### **Physical Data**

External dimensions - height 1100 mm (on braked castors)

- width 1100 mm
- depth 760 mm
- weight 228 kgs excluding coating fluid

Work basket size - @ 400mm long x 250mm wide x 200mm high.

Tank size to top of liquid level - 500mm long x 350mm wide x 225mm high.

Tank size overall - 500mm long x 350mm x 800mm high.

Tank capacity - @ 39.4 litres

Minimum liquid required to charge the machine including tank, filters, pipework etc - @ 58 litres

Top up tank capacity (if fitted as an option) - 10 litres

Pump for re-circulation - magnetically coupled stainless impeller type with EPDM seals and a pumping capacity of 3 - 3.5 litres per minute at 15 deg. C

Filters - 3 stage system with progressive path through 5um, 1um and 0.5um particle filtration.

Filter type - low pressure, stainless steel and alloy body with disposable filter cartridges.

Water separation by dual system - condensing coil collection channel with direct drain off to water collection container 5 litres, plus tank inline separator with manual drain to the shared 5 litre container.

Machine cooling - 3 circuits fitted. One to cool the tank fluid (this is the primary vapour control method), plus two circuits fitted to tank cooling coils. One just above the dwell zone, and one additional freeboard coil fitted just under the access lid.

Cooling system - Solid state Peltier multi-stage cascade type system with a combined cooling capacity of 3.12 kw/hr - 10645 BTU's/hr at full load. Estimated average hourly cooling load typically, @ 1.3 Kw/hr - 4435 BTU's/hr depending on ambient temperature and bath loading.

Machine construction - Aluminium structural extrusion machine construction system for the framework with removable side and end panels from 1.2mm 304L stainless steel. Top cover and tank from 1.5mm 316L stainless steel. All pipework, baffles and filter housings etc. From 304 or 316 stainless steel.

Alternatives and options - larger sizes are available on application. Auto basket dipping and raising system with programmable speed and dwell times. System supplied with one stainless steel work dipping basket. Additional baskets are available. Special workholding jigs can be supplied as an extra.

These specifications may be subject to change due to ongoing product improvement and development.