



## ▲ DC200

**The DC200 dip coaters automatically and precisely apply UV-curable, hydrophilic coatings for a variety of life science devices, with performance, features and size unmatched in the industry.**

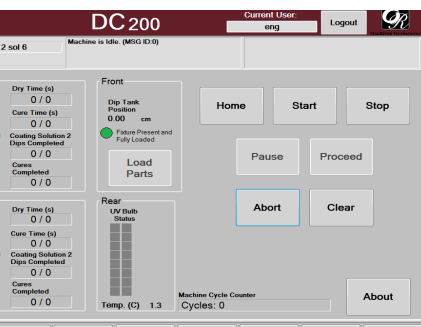
**The systems were designed for the latest low particulate, low-friction lubricious coatings, with multi-coat and multi-solution capabilities for catheters, guidewires, and other surgical intravenous, urological, and endoscopic devices.**

### **WHAT IS THE DC200?**

These dip coaters offer a dual-batch platform with a load/dip/dry station in parallel with a dry/cure station to maximize manufacturing productivity of the hydrophilic coating.

### **BENEFITS OF THE DC200**

- Automated handling and processing improves quality and consistency
- Space-saving design to optimize production area
- Increased throughput with dual batch platform
- Process flexibility via solution containment of multiple different coating solutions
- Safe and efficient use



## TECHNICAL INFORMATION

### Safety Features

- UV Filtered and tinted glass
- Front-mounted E-stop and rear door E-stop
- Interlocked and keyed curing chamber
- Keyed access to main electrical enclosure and system rear door
- Software automatic and maintenance modes
- Safety interlock sensors on front and rear doors and partition door

### Physical Features

- Removable cassettes
- Up to 4 precision extract zones via servo driven motion
- Individual part rotation
- 17" Touchscreen monitor
- Lifetime monitoring of UV bulbs and C-tubes through limit approaching warnings and limit-reached alarms
  - Temperature sensing via Omega Type K Thermocouple
  - UV Intensity monitoring (optional) via Radiometer and UVA probes
- 1 front panel ethernet port and 2 front panel USB ports

### Software Features

- Intuitive controls with visual cues for all key machine states
- Recipe-driven for customizable process control parameters
- Access to historical data, with the ability to create, view, print and save logs
- Teach function for simple recipe creation
- Maintenance modes for control of individual components
- Modular design for easy configuration to specific needs
- Touch-screen, menu-driven PC interface
- Explicit error messages and prompts
- Sensing of all actuation positions
- Intended for production and R&D environments with 4 access levels
- Industrial PC-based controls and components

**For recommendations on hydrophilic coating chemistries, reach out to Surmodics.**



## MARKET SEGMENTS



Neurovascular



Coronary



Structural Heart



Peripheral



Endoscopy



Urological

## PROCESS CAPABILITIES

- Max. part length  
Fixed: 120cm  
C-Tube: 180cm
- Max. coat length  
Fixed: 60cm  
C-Tube: 175cm
- Max. part diameter  
3/8in (standard);  
alternatives optional
- Max. batch size  
1-solution config: 11  
(22 max parts)  
2-solution config: 6  
(12 max parts)

Customizations available to the standard DC200 to accommodate longer part lengths or coat lengths, larger part diameters or increased batch sizes.

## MOTION CONTROL

- Insertion/Extract Rate  
0.5-10cm/s
- Controllable Extraction Zones  
Up to 4 separate  
extraction speeds  
± 0.005cm/s
- Dip tank speed repeatability  
± 0.001cm
- Position Repeatability  
± 0.001cm
- Rotation Speeds  
1 – 60rpm
- Spacing between parts  
3 in

## DIP TANK

- Coating solution reservoir  
~1.5L each reservoir  
(max volume)
- Funnel dimensions  
0.4 – 2.75"
- Tube change-out time  
0.5 – 1hr (estimated)
- C-Tube pressure rating  
6psi

## FLOW

- Max. exhaust flow rate  
1650cfm  
(3) 550cfm fans  
(2) adjustable fans
- Max. input flow rate  
910cfm  
1 adjustable 30cfm fan  
3 110cfm fans  
2 adjustable fans  
1 550cfm fan
- Air filters  
Polyester (disposable)  
Expanded Aluminum  
(cleanable)
- Fan speed adjustability  
0%, 40-100% of max. cfm

## CURING

- Part curing distance  
Less than 12" (to UV lamps)
- UV lamp warm-up time  
5 - 20 minutes (configurable)
- UV lamp controllability  
Lamp standby and on/off  
Individual power &  
fault detection  
50%/100% power option
- UV bulb life  
~500hrs before drop to 75%

## OPERATION

- Load Height  
Adjustable down to 5ft
- Loading Ergonomics  
Press-&-hold button lowering  
Single press button lifting
- HMI ± 0.005cm/s  
17" VGA Touchscreen
- Monitor Height range  
43-56" (Ergotron arm)
- Front window height  
27-81" height range
- Cure chamber window  
17-71" height range

## ELECTRICAL/PNEUMATICS

- Voltage  
208VAC
- Frequency  
60Hz
- Phases  
3
- Wires  
5
- Full-load current  
60A
- Largest load  
10A
- SCCR  
5kA
- Air pressure  
95psi

## DIMENSIONS

- Height, Width, Depth  
94"x 34" x 50"
- Weight  
2200 lbs

## MATERIALS

- Processed materials  
Stainless steel, Anodized  
aluminum
- UV resistance  
Polane-painted frame,  
Aluminized conduit,  
Kevlar sleeving
- Debris generation  
resistance  
Sealed stage/bearings,  
PTFE wear plates,  
Contained gears/pulleys



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