

FOM vectorSC



The FOM vectorSC has been designed from the ground up to allow easy control over coating on rigid and flexible substrates. By integrating industry-grade components and user-friendly recipe features, the FOM vectorSC provides a seamless, accelerated user workflow and excellent control for coating various active materials. It is an ideal solution for users aiming to bridge the gap between fundamental research and pilotscale production, emphasizing versatility and compatibility for various substrates and coatings.

KEY FEATURES

- Non-contact coating within µm precision
- Uniform dry film thickness from nm to µm
- Coating width from 1 mm to 200 mm
- Microporous vacuum substrate holder
- Automated coating via intuitive GUI
- Remote access from PC or Tablet
- Coating protocol saving in cloud
- Quick action buttons
- Designed for rigid and flexible substrates

- Integrated Pump with SW controlled wet film
- Designed for fluids up to 20,000 cPs
- Built-in hotplate for drying
- Simple scaling from sheet coating to R2R coating
- Excellent layer uniformity and repeatability
- Seamless fume hood and glove box integration
- Remote support and troubleshooting
- Motorized slot-die head positioning (Option)



Technical specifications

MACHINE

- Model: FOM vectorSC
- Dimensions: 530 x 870 x 500 mm (L x W x H)
- Weight: 71 kg
- Substrate holder dimensions: 255 mm x 355 mm
- Substrate holder heating: Up to 200 °C
- Microporous vacuum dimensions: 210 mm x 306 mm
- Recommended cable clearance: 200mm
- Integrated syringe pump from 1 ml to 300 ml
- Integrated PLC control system

ELECTRICAL PANEL

- Panel dimensions: 1000 x 300 x 950 mm (L x W x H)
- Weight: 90 kg
- · Material: Carbon steel
- Cable length to machine: 4,5 m (Standard)

COATING

- Coating width: 1 mm to 200 mm
- Coating length: Up to 300 mm
- Coating speed: 0.01 up to 5.0 m min⁻¹
- Slot-die head heating: Up to 80 $^{\circ}$ C
- Slot-die compatibility: FOM SD 25 FOM SD 200

MACHINE UTILITIES

Electrical power supply

- 3 phase Voltage: 3-PHASE+N+G 200-230 (V) OR 3-PHASE+N+G 380-415 (V)
- Voltage frequency: 50 & 60 (Hz)
- Maximum current: 24 (A)
- Electrical panel plug connection: FOM provides a CEE plug for connection to the electrical panel
- Cable length from electrical panel to machine: Fixed at 4.5 m
- Power connection: Connection cable from the main power supply to the electrical panel not included
- Recommended power connection cable: 12AWG / 4 mm²

Compressed air

- Compressed air information: Spec list 5-7 bar. Clean and dry, non-lubricated. ISO 8573-1:2010 Class 1.2.3 or better
- Connection and tubing type: To be fitted to Ø8 mm Festo push-fit connection

Internet connection

Ethernet cable via Rj45 connector

CERTIFICATIONS & STANDARDS

- Machine Standard: EN 60204-1 and ISO 13849-1 (CE)
- Compliant with Quality Directive 2006/42/EC Annex II B
- Electrical panel standard: UL508A

OPTIONS

Equipment:

- Laptop
- FOM Ionizing system (Anti-static)
- FOM Flexographic system
- FOM Positioning sheet
- FOM Blade coating system
- FOM Slot-die height laser system
- FOM Slot-die height & alignment laser system
- FOM Equipment mounting system (For multiple options)
- Motorized slot-die head positioning (Option)

Electrical panel:

• Extension cable (from electrical panel to machine): Intervals of 5 m

Glove box integration:

• FOM Glove box adapter cables – 5m

Pumps, syringes, and consumables:

- Syringe pump Standard viscosity
- Syringe pump High viscosity
- Stainless steel syringe
- Glass syringe
- PPTT syringe
- FOM Syringe heating up to 80 °C
- Slot-die shims and guides for adjusting coating width and pattern

Additional drying:

- FOM Air knife system
- · FOM IR drying system

Enclosure:

FOM Enclosure

