





KEY FEATURES

- Uniform dry film thickness from nm to µm
- Coating width from 1 mm to 500 mm
- A microporous vacuum substrate holder
- Automated coating via intuitive GUI
- Remote access from a PC or Tablet
- Local saving of coating protocols
- Quick-action physical buttons
- Integrated pump with software controlled wet film thickness

- Designed for rigid and flexible substrates
- Substrate, slot-die head, and syringe heating
- 2-axis motorized slot-die head positioning
- Designed for fluids up to 20,000 cPs
- Simple scaling from sheet coating to R2R coating via a docking station
- Fume hood and glove box integration
- Remote support & troubleshooting



Technical specifications

MACHINE

- Model: FOM alphaSC
- Dimensions: 1297 x 788 x 786 mm (L x W x H)
- Weight: 166 kg
- Substrate holder dimensions: 520 mm x 500 mm
- Substrate holder heating: Up to 200 °C
- Microporous vacuum dimensions: 305 mm x 305 mm
- · Recommended cable clearance: 200 mm
- 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: Powder-coated carbon steel
- Cable length to machine: 4,5 m (Standard)

COATING

- Fully motorized x-y-z positioning 1 μm precision
- Coating width: 1 mm to 500 mm
- Coating length: Up to 470 mm
- Coating speed: 0.01 up to 5.0 m min⁻¹
- Slot-die head heating: Up to 80 °C
- Slot-die compatibility: FOM SD 25 FOM SD 500

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
- Power connection: Connection cable from the main power supply to the electrical panel not included
- Recommended power connection cable: 12AWG / 4 mm²

Compressed air

- Operating pressure: 6-8 bar
- Air consumption: 3.5 NL/s
- Air quality requirements: Clean and dry, non-lubricated. ISO 8573-1:2010 Class 1.2.3 or better
- Connection details: 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 İonizing system (Anti-static)
- FOM Flexographic system
- FOM Positioning sheets
- FOM Blade coating system
- FOM Slot-die height laser system
- FOM Slot-die height & alignment laser system
- FOM Equipment mounting system (for multiple options)

Electrical panel:

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

Glove box integration:

• FOM Glove box adapter cables - 5 m

Enclosure:

FOM Enclosure

Pumps, syringes, and consumables

- External syringe pump Standard viscosity
- External syringe pump High viscosity
- Continuous pumps Standard viscosity
- Continuous pumps High viscosity
- · Stainless steel syringe
- Glass syringe
- PP 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 Heat blower oven system
- FOM IR drying system

Roll-to-roll option:

Continuous coating: FOM R2R docking system

