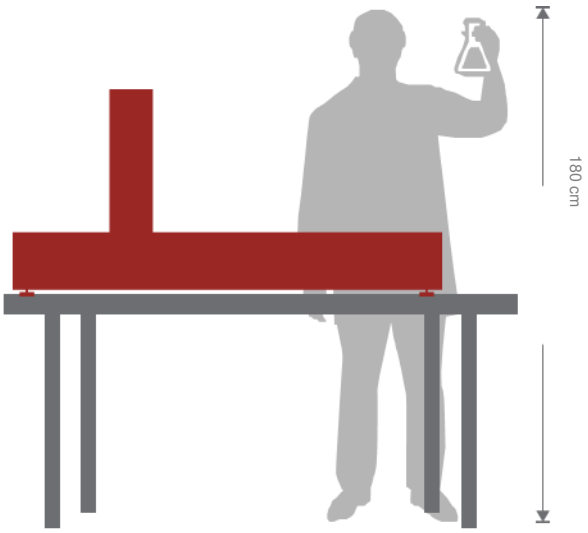
FOM alphaSC



The FOM alphaSC represents the ultimate combination of control, functionality, and versatility in thin-film research and production. All elements of its hardware, software, and premium features have been tailored to eliminate experimental error and increase usability with both flexible and rigid substrates. The FOM alphaSC provides users with unmatched versatility, precision, and process reproducibility for a wide spectrum of lab-scale materials and coating processes relevant to industry and academia.

BASE SPECIFICATIONS

- Fully motorized x-y-z positioning (1 µm precision)
- Coating width: up to 500 mm (slot-die compatibility: S – XXL)
- Coating length: up to 500 mm
- Coating speed: 0.01 up to 5.0 m min^{-1}
- Substrate heating: up to 200 °C
- Slot-die head heating: up to 80 °C
- Microporous vacuum chuck
- Integrated syringe pump
- Remote control with coating automation software on any external device
- Advanced coating automation software
- Cloud-compatible protocol saving
- Remote troubleshooting
- Dimensions : 680 x 1190 x 690 mm (D x W x H)
- Weight: 250 kg

OPTIONS

- Integrated oven module
- Syringe heating up to 80 °C
- Nitrogen/air knife module
- High viscosity pump.
- High viscosity slot-die head & tubing
- Ionizing bar
- Blade-coating / Flexographic & Gravure printing

KEY FEATURES

- Unmatched coating precision.
- Automated coating via intuitive software interface and enabled remote access.
- Frequent-tasks quick buttons panel
- Seamless glovebox integration option
- Advanced heating and slot-die head positioning functions.
- Continuous, non-contact thin-film coating process.
- Compatible with fluids up to 20,000 cP.
- Pumping system enclosure.
- Compatible with rigid and flexible substrates.
- Proprietary design for excellent substrate flatness and fixation.
- Software integrated direct wet film thickness control.
- Excellent layer definition, uniformity, and repeatability.
- Uniform dry film thickness from nano to micrometers.
- Low material waste compared to blade & spin-coating.
- Simple scaling from lab to R2R production.

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Custom constructions are available upon request.