



The FOM scalarSC is the ideal entry point to begin scalable coating of functional thin films and devices. The FOM scalarSC has been designed to allow easy control over coating on both rigid and flexible substrates while requiring a fraction of the cost and physical footprint. By leveraging years of experience in materials research and slot-die coating, the FOM scalarSC provides the necessary freedom through a simplified design for everyday experimental runs. The FOM scalar SC will offer excellent precision and reproducibility for a wide spectrum of lab-scale materials and coating processes relevant for industry and academia.

BASE SPECIFICATIONS

- Coating width: up to 200 mm (slot-die compatibility: S – XL)
- Coating length: up to 300 mm
- Coating speed range: 0.01 to 5.0 m min⁻¹
- Substrate heating: up to 200 °C
- Stand-alone syringe pump
- Remote control unit
- Coating automation software
- Cloud-compatible protocol saving
- Remote support & troubleshooting
- Dimensions: 485 x 870 470 mm³ (D x W x H)
- Weight: 50 kg (est.)

OPTIONS

- Nitrogen/air knife module
- High viscosity slot-die head & tubing
- Ionizing bar
- High-viscosity pump
- Heated-syringe

KEY FEATURES

- Plug & play installation.
- Excellent substrate holder flatness
- Coating via intuitive software interface and enabled remote access.
- Seamless glovebox integration option.
- Compatible with rigid and flexible substrates.
- Compatible with fluids up to 20,000 cP.
- Continuous, non-contact thin-film coating process.
- Software integrated direct wet film thickness control.
- Excellent layer definition, uniformity, and reproducibility.
- Uniform dry film thickness from nanometers to microns.
- Low material waste compared to blade & spin coating.
- Simple scaling from lab to R2R production.

CONTACT DETAILS

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Custom constructions are available upon request.