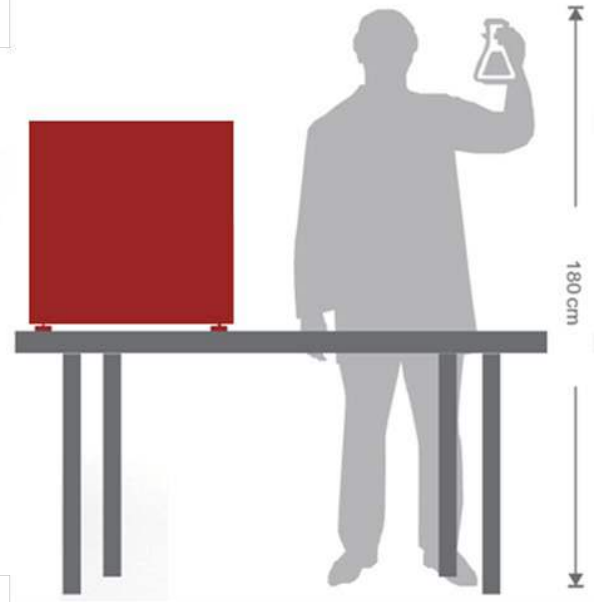




The FOM arcRC has been designed to mimic industrial roll-based coating in a smaller, lab-friendly format. By integrating industry-grade components and a user-friendly interface, the FOM arcRC provides a seamless, accelerated user workflow and excellent control for coating a wide variety of functional materials. It is an ideal solution for users aiming to bridge the gap between fundamental research and pilot-scale production, with an emphasis on control of shear and gravity effects via variable slot-die attack positions around the coating roll.

BASE SPECIFICATIONS

- Coating width: up to 300 mm (slot-die compatibility: 25-200mm)
- Coating length: up to 1 m
- Coating speed range: up to 5.0 m min⁻¹
- Substrate heating: up to 180 °C
- Integrated reversible syringe pump
- Remote control with coating automation software on any external device
- Frequent-tasks quick buttons panel
- Cloud-compatible protocol saving
- Remote support & troubleshooting
- Dimensions : 700 x 840 x 700 mm (D x W x H)
- Weight: 115 kg

OPTIONS

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

KEY FEATURES

- Control of gravity and inertia effects via adjustable slot-die positions in 120° arc around coating roll
- Control of fluid shear via adjustable slot-die coating angle to ± 25°
- Turnkey glovebox compatibility
- Unique time-saving roll-cooling system
- Compatible with flexible substrates
- Compatible with fluids up to 20,000 cP
- Continuous, non-contact thin-film coating process
- Pumping system enclosure
- Direct wet film thickness control
- Excellent layer definition, uniformity, and reproducibility
- 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 available upon request.