

FOM arcRC 适用于以小型化，实验室规模的研究工作来模拟和探索工业量产级卷对卷涂布工艺。FOM arcRC集工业级工艺组件和友好的操作界面于一身，在保证连续，迅捷的工作流程的同时，保证针对众多类型活性材料的高质量涂布控制。FOM arcRC可通过调整涂布刀头和滚筒间夹角来控制剪切效应和重力效应，是桥梁基础研发和中试生产的理想工具。

基础参数：

- 涂布宽度：最大可达200mm（涂布头尺寸可兼容S-XL）
- 涂布长度：最大可达1m
- 涂布速度：最高可达5.0m/min
- 基片加热：最高可达200 C
- 集成注射泵，具备倒吸功能
- 基于PC的自动涂布软件界面
- 核心功能可通过物理按键快速操作
- 云端存储协议
- 远程支持和故障排查
- 外形尺寸：54 x 84 x 70 cm (L x W x H)
- 重量：50Kg

可选功能：

- 涂布头加热：最高可达80 C
- 注射泵加热：最高可达80 C
- 氮气/空气风刀
- 高粘度组件

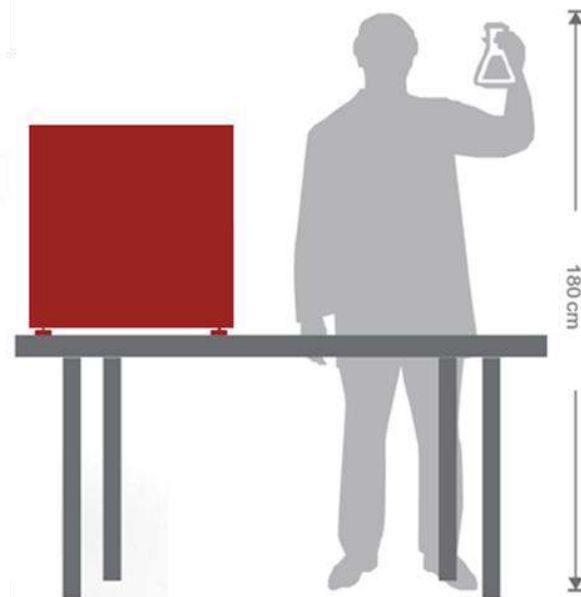
关键参数：

- 可通过调整涂布头角度实现重力效应和惯性效应控制；涂布头调角度：120°
- 可通过调整涂布角度实现剪切效应控制，涂布角度可调范围：± 25°
- 独特的冷却装置可实现便捷降温
- 兼容柔性基片
- 实验室级的R2R/S2S涂布
- 可与手套箱集成
- 直接的湿膜膜厚控制
- 连续、无接触的薄膜涂布工艺
- 纳米至微米级均匀干膜制备
- 优越的膜层清晰度，均匀性和可重复性
- 适用溶液粘度最大可达20,000 cP
- 密闭式输送装置有效保护涂布溶液
- 可便利的从实验室级别升级到R2R量产
- 高材料利用率

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可根据用户需求定制



The FOM arcRC has been designed from the ground up to mimic industrial roll-based coating in a smaller, lab-friendly form factor. 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 active 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 200 mm (slot-die compatibility: S – XL)
- Coating length: up to 1 m
- Coating speed range: up to 5.0 m min⁻¹
- Substrate heating: up to 200 °C
- Integrated reversible syringe pump
- Laptop control unit with coating automation software
- Hardware quick buttons for core tool functions
- Cloud-compatible protocol saving
- Remote support & troubleshooting
- Dimensions : 54 x 84 x 70 cm (L x W x H)
- Weight: 50 kg

OPTIONS

- Slot-die head heating up to 80 °C
- Syringe heating up to 80 °C
- Nitrogen/air knife module
- High viscosity kit

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°
- Easy temperature reduction via unique cooling system
- Compatible with flexible substrates
- Lab-scale demonstration of R2R/S2S coating
- Turnkey glovebox compatibility
- Direct wet film thickness control
- Continuous, non-contact thin film coating process
- Uniform dry film thickness from nanometers to microns
- Excellent layer definition, uniformity and repeatability
- Compatible with fluids up to 20,000 cP
- Protects coating fluid via closed delivery system
- Simple scaling from lab to R2R production
- High material efficiency compared to blade & spin coating

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Custom constructions available upon request.