

FOM alphaSC狭缝涂布机是适用于薄膜研究和生产的多功能综合性平台，可兼容柔性和刚性基板涂布工艺。该型号狭缝涂布机的软件功能，硬件组件和附加功能均经过专门的优化设计以排除实验误差，提高设备适用性和可靠性。FOM alphaSC狭缝涂布机为实验室级别的材料和涂布工艺研究提供了优越的性能并可兼容适用于多种用途。

#### 基本参数：

- 全自动 x-y-z 定位 (1 $\mu$ m 精度)
- 涂布宽度：最大可达500mm (涂布刀头尺寸可兼容包含 S-XXL范围内的多种尺寸)
- 涂布长度：最大可达500mm
- 涂布速度范围：0.01-5.0m/min
- 基片加热：最高可达200 C
- 涂布刀头加热：最高可达80 C
- 微孔真空吸盘
- 集成注射泵
- 可在任何外部设备上通过涂布自动化软件进行远程控制
- 先进的自动化软件
- 云端存储协议
- 远程故障排除
- 外形尺寸：680 x 1190 x 690 mm (D x W x H)
- 重量 250 kg

#### 可选功能：

- 可集成烘箱模块
- 注射泵加热：最高可达80 C
- 氮气 / 空气风刀
- 高粘度泵
- 高粘度涂布头和管道
- 静电消除器
- 刮涂和柔版印刷

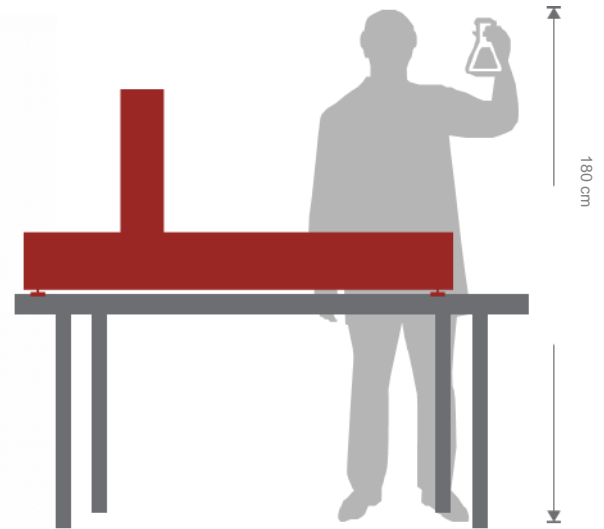
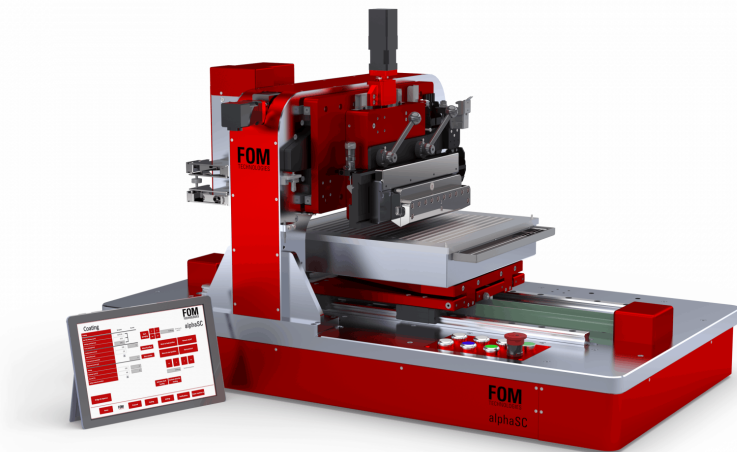
#### 关键参数：

- 无与伦比的涂布精度
- 直观便捷的软件操作界面和自动涂布程序，支持远程登录
- 常用功能控制面板
- 与手套箱无缝对接
- 先进的涂布头加热和定位功能
- 连续、无接触的薄膜涂布工艺
- 适用溶液粘度最大可达20,000 cP
- 集成式注液泵
- 兼容柔性和刚性基片
- 优越的基片平整度和先进的基片固定方式
- 直接的湿膜膜厚控制
- 优越的膜层清晰度，均匀性和可重复性
- 纳米至微米级均匀干膜制备
- 高材料利用率
- 可便利的从实验室级别升级到R2R量产

#### 联系方式：

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可根据用户需求定制



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  $\mu\text{m}$  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  $\text{m min}^{-1}$
- Substrate heating: up to 200  $^{\circ}\text{C}$
- Slot-die head heating: up to 80  $^{\circ}\text{C}$
- 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  $^{\circ}\text{C}$
- 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.

## CONTACT DETAILS

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*Custom constructions are available upon request.*