

FOM sigmaR2R 是一款紧凑型卷对卷狭缝涂布机，采用工业量产级组件结合用户友好的操作界面以满足特定的涂布工艺要求。FOM sigmaR2R可灵活选配烘箱模块以及其他涂布前和涂布后工艺模块，适用于研发和工业生产场景的各种功能材料涂布。

基本参数:

- 涂布宽度: 最大可达350mm (涂布头尺寸可兼容研发和量产尺寸)
- 涂布长度: 最大可达480 m (最大卷材直径400 mm)
- 涂布速度: 最高可达5.0m/min
- 自动纠偏
- 独立注液泵, 具备倒吸功能
- 集成控制系统
- 定制双区烘箱长度10%, a 7, 可独立控制温度, 最高可达200 °C。
- 外形尺寸: 2400 x 1550 x 1820 mm (L x W x H)
- 重量: 1500 kg

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
- 具有红外线加热功能的烘箱
- 氮气 / 空气风刀
- 高粘度涂布头和管道
- 静电消除器
- 刮涂和柔版印刷模块

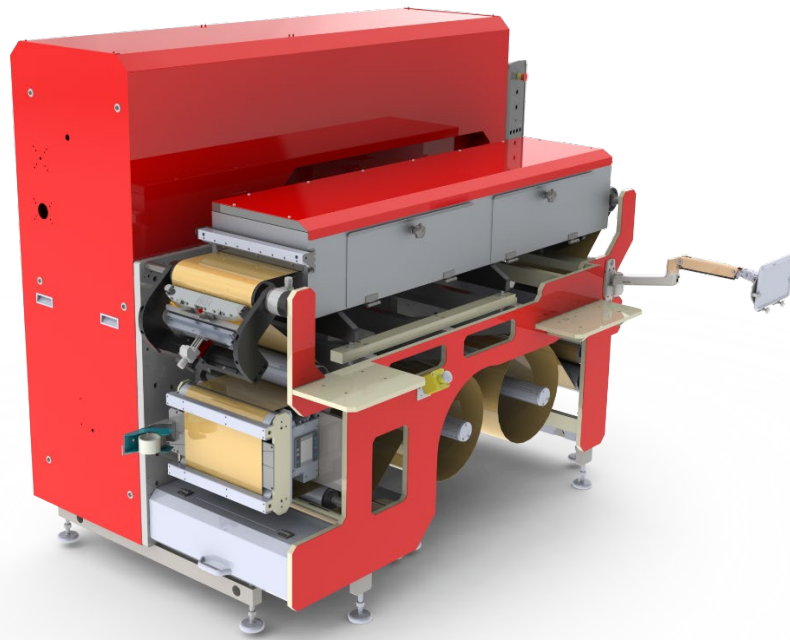
关键参数:

- 伺服电机驱动的卷材和张紧力控制系统
- 具有双向收放卷功能
- 可调整涂布头角度调节重力效应和惯性效应
- 涂布头可调角度: 120°
- 可便利的更换卷轴
- 集成卷材拼接功能
- 适用溶液粘度最大可达20,000 cP
- 连续、无接触的薄膜涂布工艺
- 直接的液膜膜厚控制
- 精准的膜厚控制, 优越的均匀性和可重复性
- 可轻松对准多个膜层
- 纳米至微米级均匀干膜制备
- 高材料利用率
- 实验室到量产级无缝连接

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可根据用户需求定制



The FOM sigmaR2R is a compact roll-to-roll slot-die coating machine integrating industry-grade components adaptable to specific coating procedures with a user-friendly interface. The flexibility and ease of choosing oven modules and other pre coating and post coating addons make the FOM sigmaR2R suitable for slot-die coating a wide variety of functional materials for R&D and industrial applications.

BASE SPECIFICATIONS

- Coating width: up to 350 mm (slot-die compatibility: R&D and industrial sizes)
- Coating length: up to 480 m (max roll diameter 400 mm)
- Coating speed range: up to 5.0 m min⁻¹
- Automatic web-guide.
- Stand-alone reversible continuous pump
- One integrated control system.
- Custom 2-zone oven (1.8 m in length) with individual temperature control up to 200 °C.
- Dimensions: 2400 x 1550 x 1820 mm (L x W x H)
- Weight: 1500 kg

OPTIONS

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

KEY FEATURES

- Full web and tension control and servo-driven system
- Two directional winding & unwind capability
- Adjustable slot-die positions in 120° arc around coating roll for inertia and gravity effects control of coating
- Convenient and easy roller(s) replacement
- Splicing feature integrated
- Compatible with fluids up to 20,000 cP
- Continuous, non-contact thin-film coating process
- Direct wet film thickness control
- Excellent layer definition, uniformity, and reproducibility
- Easy alignment of multiple layers.
- 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 available upon request.