



The FOM moduloR²R is a highly capable, modular roll-to-roll pilot line platform. The base model consists of unwind, rewind, oven and slot die stations for simple pilot-scale thin film production. This can be easily customized and optimized for a given coating process through the addition of a wide variety of machine modules and process stations. The FOM moduloR²R makes it simple to design the perfect production line for a particular process, representing an ideal first step from R&D to full-scale fabrication.

BASE SPECIFICATIONS

- Unwind, rewind, oven and slot die stations
- Coating width: up to 300 mm (slot die sizes: S to XXL)
- Coating length: 10² - 10³ m (substrate dependent)
- Coating speed range: up to 20 m min⁻¹
- Hot air + IR oven heating: up to 200 °C
- Slot-die head heating: up to 80 °C
- Integrated syringe pump + stainless steel syringe
- HMI control unit
- Advanced coating automation software
- User/admin accounts
- Remote troubleshooting
- Dimensions: 1.2 x 1.2 x 1.8 m (L x W x H) per module
- Weight: 300 kg per module

OPTIONS

- Corona treatment station
- Flexographic printing station
- High pressure pump
- Fully motorized slot die positioning
- Additional HMI control units
- Coating speed up to 100 m min⁻¹

KEY FEATURES

- Pilot scale R2R thin film production
- Modular design optimizes hardware for your process
- Advanced heating and slot-die positioning options
- Diverse printing modules for additive manufacturing
- Simple scaling from lab to production
- Direct wet film thickness control
- Continuous, non-contact thin film coating process
- Uniform dry film thicknesses from nanometers to microns
- Compatible with rigid and flexible substrates
- Intuitive HMI touch interface
- Coating automation for easy control and repeatability

CONTACT DETAILS

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Further customizations available upon request.