

RR4510

IN LINE WEB HANDLING SYSTEM

FEATURES AND BENEFITS

Precision

- Accurate positioning of the dispensed lines and drops on the web material

Flexible

- Modular design provides a wide range of process capabilities for reagent application and drying

User Friendly

- Handheld controller

PERFORMANCE

AirJet Quanti Dynamic Dispense Range

- 1 $\mu\text{L}/\text{cm}$ to 50 $\mu\text{L}/\text{cm}$

Front Line Minimum Continuous Line Width

- 0.6 μL to 3 $\mu\text{L}/\text{cm}$

BioJet Quanti Dynamic Dispense Range

- 5 nL to 4 μL

**Dependent on fluid rheology and substrate properties.*

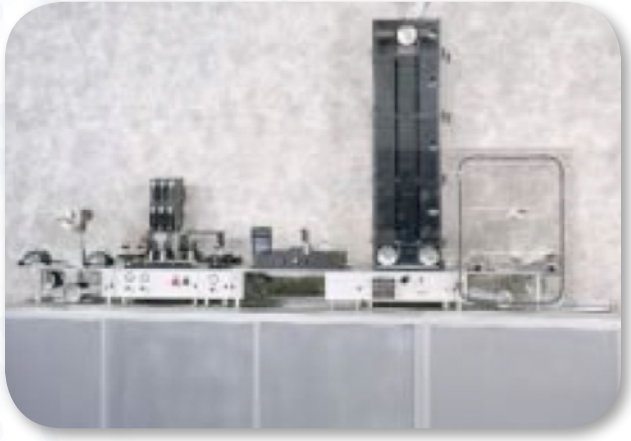


The RR4510 is designed to provide reagent application and drying capabilities for web processing. The reagent application options include precision dispensing as well as dip coat impregnation.

A wide range of dispensers can be integrated into the system including the patented BioJet Quanti and AirJet Quanti dispensers for non-contact dispensing as well as Front Line for contact dispensing. Dispensing options provide for printing arrays of lines or full coating of webs using wide angle AirJets.

The Reel to Reel system also incorporates two tracking systems. The first is an automatic tracking of the web on the take-up reel and the second is a web edge tracking to maintain the position of the dispensed lines relative to the web edge. Web speed, pinch roller pressure, tension, drying time and temperature are all adjustable. Low-tension versions are also available for processing materials with the low tensile strength.

RR4510 IN LINE WEB HANDLING SYSTEM



In Line Web Handling System with dispense module, dip tank, dry tower, and enclosed takeup module.

SPECIFICATIONS

Dimensions (L x W x H)

- 9 ft x 22 ft x 40 ft (configuration dependent)

Weight

- ~ 1047 lb (476 kg) (configuration dependent)

Power Requirements

- 110/220 VAC; 50/60 Hz (for all models)

Air Requirements

- Air Supply: 0 - 90 psi (when AirJets & Capstan are configured)

DISPENSING SPECIFICATIONS

Dispensers

- Up to 8 in any combination; 7 in Tandem

Membrane Width

- Minimum: 0.20 in (5 mm)*
- Maximum: 3.85 in (98 mm)

*Material dependent.

Linear Web Speed

- Up to 4 in/sec (100 mm/sec);
Typical (25 mm/sec)

Web Tracking

- SD of ± 0.25 mm on take-up roll
- SD of ± 0.25 mm on dispensing tracking;
Typical SD ≤ 0.1 mm

OPTIONS

Dispense Modes

- Front Line Quanti: Gliding tips for multiple fine lines
- AirJet Quanti: Quantitative spraying and coating
- BioJet Quanti: Quantitative non-contact line and drop dispensing

Inspection Stations

Dip Tanks

Dry Towers

Environmental Enclosures