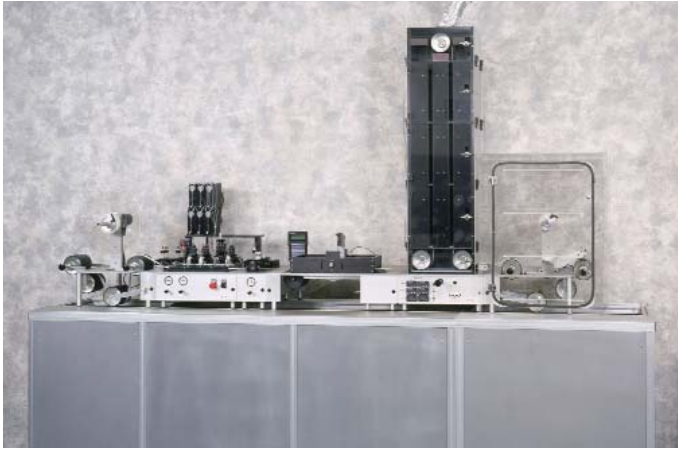


RR4500

In-Line Web Handling System



PRODUCT DESCRIPTION

The RR4500 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 FrontLine 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 low tensile strength.

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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 Repeatability:
 $\pm 1\%$ (line dispensing)

AirJet Quanti Dynamic Dispense Range:
1 μL per cm - 50 μL per cm

FrontLine Repeatability:
 $\pm 1\%$ (line dispensing)

Front Line Minimum Continuous Line
Width: 0.6 μL to 3 $\mu\text{L}/\text{cm}$

BioJet Quanti Dynamic Dispense Range
0.8 to 3 $\mu\text{L}/\text{cm}$

Dependent on fluid rheology and
substrate properties




SPECIFICATIONS**DIMENSIONS (L x W x H)**

9" x 22" x 40"
(configuration dependent)

WEIGHT

~1047 lbs (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

MEMBRANE WIDTH

Minimum: 0.20" (5 mm) *
Maximum: 3.85" (98 mm)
* Material dependent

LINEAR WEB SPEED

Up to 4"/sec (100 mm/sec)

WEB TRACKING

± 0.25 mm on take-up roll
± 0.25 mm on dispense tracking

OPTIONS**DISPENSE MODES**

FrontLine 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**