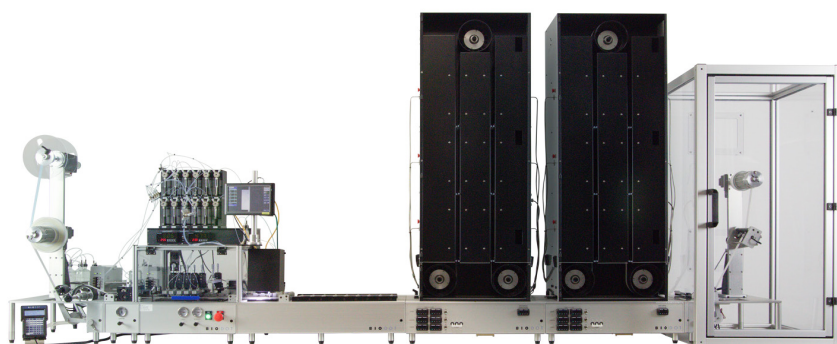


RR120 IN-LINE SERIES: PRECISION DISPENSING SYSTEMS

Improve Product Quality and Increase Manufacturing Throughput

Applications

- Lateral Flow Tests
- Immunoblots
- Dry Chemistry
- Custom Applications



RR120™ Web Handling System

Continuous Reagent Dispensing

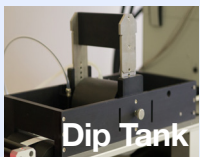
The RR120 is designed for dispensing dots or lines, coating, inspecting, and drying of web materials. Each process is designed as a separate module allowing users to pick and choose options based on application and throughput requirements. Additional modules are also available.

Dispensing/Coating Options

Lines/Dots



Coating / Saturation



Contact Lines



Dots



Features/Benefits

- Precision dispensing options
- Accurate dispense tracking
- Continuous dispensing/coating
- Flexible design for multiple processes
- Adjustable tension for backed/unbacked membranes and low tensile strength/fragile materials
- Moderate to high volume production throughput
- Easy to set up, operate and maintain
- Data storage to support multiple applications
- Systems can be upgraded after purchase*
- Take-up tracking for material alignment

System Includes

- Material payout module
- Drive capstan module w/pressure control and adjustable speed
- Dispense module w/position tracking
- Material take-up module w/ tracking
- Chassis

System Options

- Choice of up to 7 dispensers w/ tandem pumps for continuous dispensing*
- Dip Tank(s) w/ fluid level sensor and pump
- Release liner take up and payout reels
- Drying Tower(s) w/ temp sensing in 6 control zones
- Vision inspection with bad part marking
- Environmental enclosure
- Dispenser enclosure w/ humidity control
- Ultra low tension
- Custom modules

*System Configuration Dependent

To learn more about the RR120, scan this QR code with your smart device:



General Specifications

Dispensers	Up to 7 in tandem*
Membrane Width	5 mm - 120 mm
Linear Web Speed	Up to 100 mm/sec**
Dimensions (H x W x D)	139 x 295 x 66 cm**
Weight	136 kg**
Power Requirement	110/220 VAC, 50/60 Hz**
Air Requirement	60-125 PSI (clean, dry air)

*Single pump configurations are available

**Dependent on equipment, configuration, reagents and materials
Specifications subject to change without notice

Drying Tower Option

Thermocouple temperature sensing in 6 control zones	
IR web temp sensor	
Web path	3.0 meters
Temp Range	Ambient to 70 °C @ 20% Air Flow
Dimensions (L x W x H)	61 cm x 46 cm x 156 cm
Power	208V 3-phase / 230V 1-phase / 115V 1-phase
Airflow (60 hz)	>100CFM @ 20% gate open, >200CFM @ 100% gate open
High temperature version is available	

Typical Dispenser Specifications**

Feature	µAirJet	AirJet	BioJet	FrontLine	PolyDrop
Type of Dispensing	Aerosol, non-contact	Aerosol, non-contact	Drop on demand, non-contact	Contact tip	Drop on demand semi-contact
Type Application	Conjugate lines and coating	Conjugate lines and coating	Reagent lines and dots	Reagent lines	Reagent dots
Line Volume*	0.5 - 12 µL/cm	0.1 - 24 µL/cm	0.8 - 3.0 µL/cm	0.1 - 3.0 µL/cm	–
Drop Volume*	–	–	2.6 nL - 2.0 µL (single drop)	–	>25 nL
Typical Line Width*	0.5 to 6 mm	0.5 to 10 mm	0.25 to 2.5 mm	0.25 to 2.5 mm	–
Accuracy* (% of target)	+/- 5%	+/- 5%	+/- 5%	+/- 5%	+/- 5%

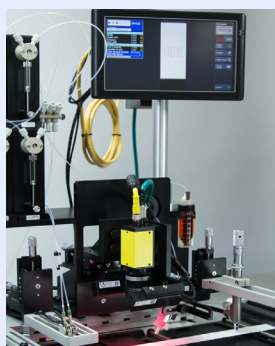
*Single pump configurations are available

**Dependent on equipment, configuration, reagents and materials
Specifications subject to change without notice

In-line Dispensing and Coating Options

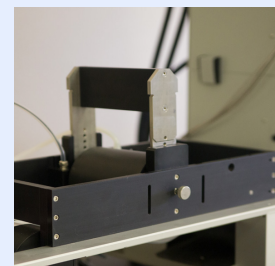
Vision Inspection Option

- Camera, mount and monitor
- Measures position, width, differential, satellites and gaps
- Bad part marking dispenser
- Custom programming available



Dip Tank Option

- Fluid level sensor
- Peristaltic pump
- Disposable liner



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