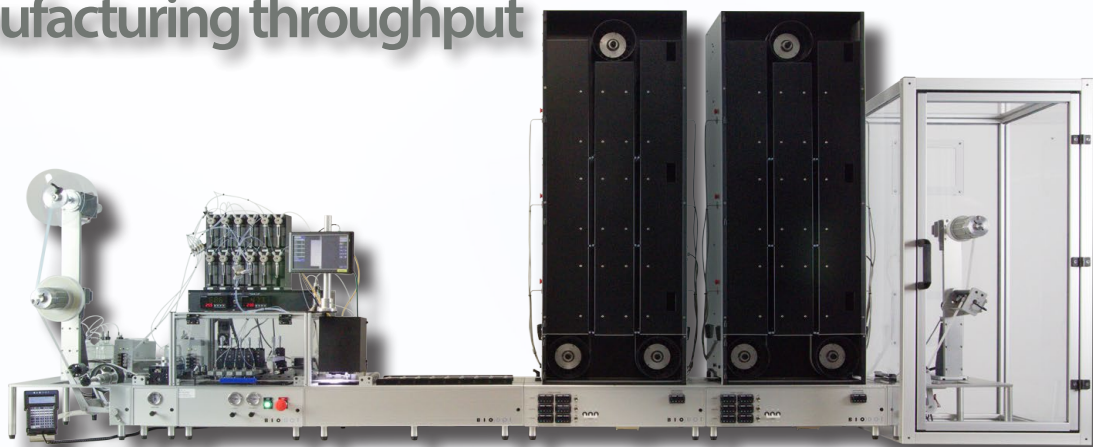


**IMPROVE** product quality and  
**INCREASE** manufacturing throughput

### Applications

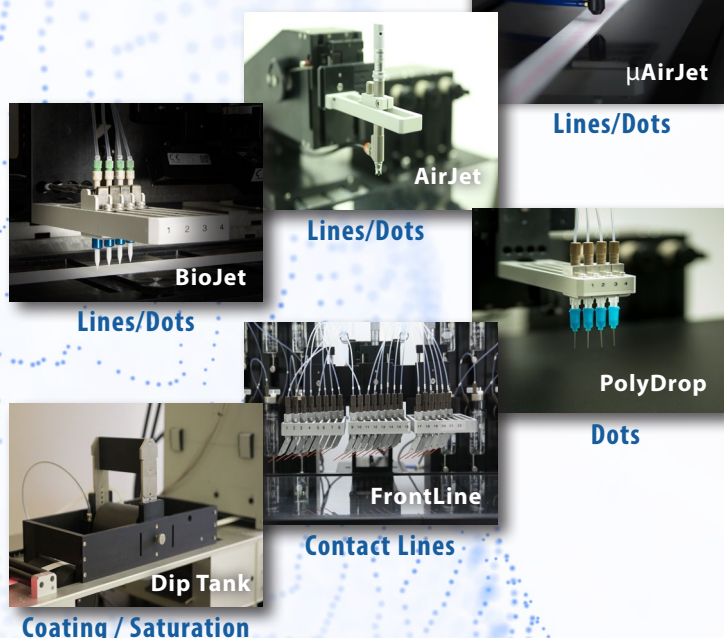
- Lateral Flow Tests
- Immunoblots
- Dry Chemistry
- Custom Applications



### 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. Customization is also available.

### Dispensing/Coating Options



### 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/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

## 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 temp 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
Typical 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 - 2.0 nL (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%

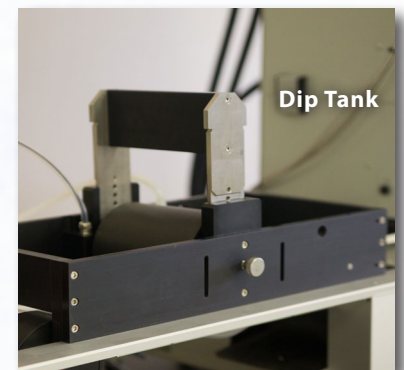


## VISION INSPECTION OPTION

- 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



## In-line Web Dispensing and Coating System

*For over 23 years, BioDot has been providing dispensing, laminating and cutting systems in the rapid test market. Our long-lasting relationships with customers are built on precision products and quality service around the world.*