

Precision Dispensing Systems

XYZ Batch Dispensing

SIMPLIFY product development
IMPROVE product quality

Applications

- Lateral & Flow Through Tests
- Biosensors
- Immunoblots
- Dry Chemistry
- Custom applications

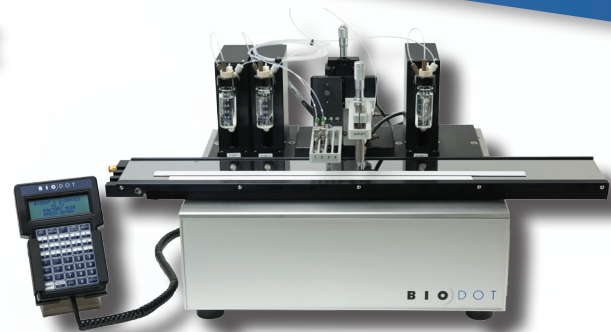
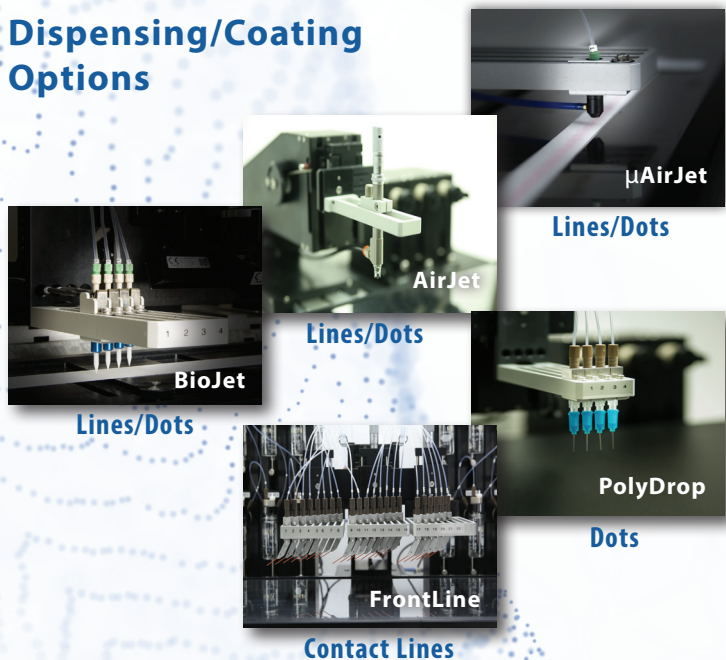
Batch Dispensing Systems

BioDot's XYZ workstations dispense lines and/or dots onto membranes and other surfaces for the development and production of diagnostic tests.

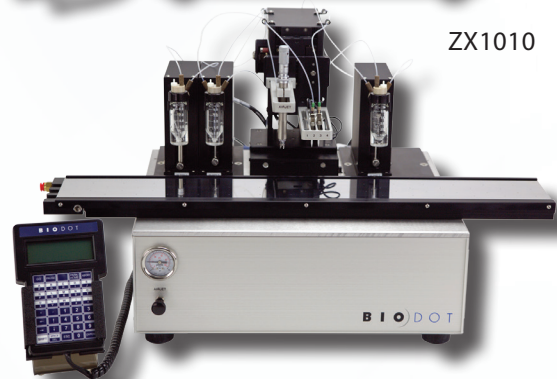
These high quality production machines offer superior dispensing technologies, positioning controls, and easy to use software.

Choose the number and type of dispenser(s) on the system to meet your application needs and optimize your work flow. Custom nests can also be designed to hold your parts.

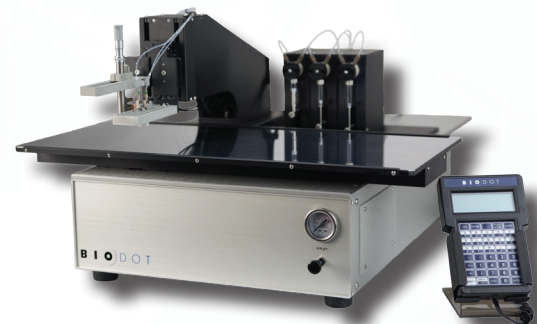
Dispensing/Coating Options



ZX1010



XYZ3060



XYZ3210

Features/Benefits

- Simultaneous quantitative dispensing
- Independent volume control for each dispenser
- Flexible design for multiple processes
- R&D to moderate production throughput
- Easy to set up, operate and maintain
- Programmable line and drop volumes
- Data storage for multiple applications
- Low dead/swept volume
- Systems can be upgraded after purchase*
- Compact footprint

*System Configuration Dependent

B I O D O T

XYZ Workstations

GENERAL SPECIFICATIONS

Dimensions (L x D x H)

- ZX1010: 43 cm x 36 cm x 40 cm
- XYZ3060: 43 cm x 36 cm x 40 cm
- XYZ3210: 74 cm x 74 cm x 46 cm

Dispense Area (L x D)

- ZX1010: 495 mm x 85 (manual)
- XYZ3060: 495 mm x 75 mm
- XYZ3210: 495 mm x 265 mm

System Precision (all models)

- X, Y and Z-Axis typically < 10 µm

Weight

- ZX1010 & XYZ3060: 25 kg
- XYZ3210: 50 kg

Power Requirement

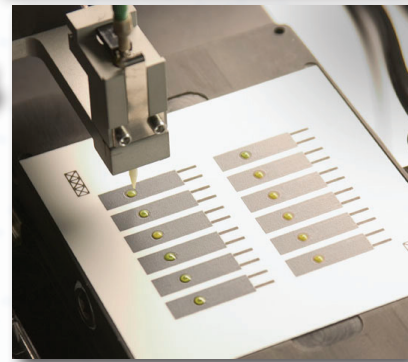
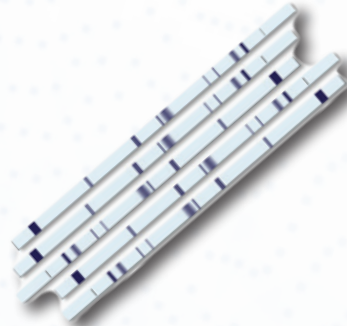
- 110/220 VAC; 50/60 Hz (all models)

Air Requirement

- 60-125 psi (for ZX1010 and AirJets)

Vacuum Requirement (for vacuum nest)

- 60 L/min (2.1 CFM)



TECHNICAL SPECIFICATIONS

Dispensers

- Up to 8 dispensers

Available nests

- ZX1010 & XYZ3060 - vacuum/magnetic
- XYZ3210 - magnetic
- Custom - user defined

Optional Humidity Chamber

Optional Vacuum Pump

DISPENSING TECHNOLOGIES AVAILABLE FOR XYZ WORKSTATIONS

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	0.5 - 3.0 µL/cm	> 0.5 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%	--

*Table speed, material and/or reagent dependent
Specifications subject to change without notice

Fully Programmable Low Volume Dispensing 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.

B I O D O T

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XYZ HHT DS-07-10