



GANTRY II S

**BENCH TOP
OR
STANDALONE**

APPLICATIONS

Diagnostic Cartridges
POCT
DNA / Protein / Cell Microarrays
Multiplex Immunoassays
Lateral Flow Applications
Biosensors
Lab-on-a-Chip
Diagnostic Biomarkers
Drug Discovery
Microfabrication of Watches
Polymer Functionalisation
Stent Surface Activation
Spotting to custom-specific targets
Wafer Marking & Inking



KEY ADVANTAGES

R&D and small production
Dispensing from 30 µl to low µl
Up to 8 different dispensers
Spot on the Fly, Fiducial autocorrection
QC on the Fly
No system liquids, no sample dilution
No cross contamination
Recovery of biological samples
Any viscosity range
Any target, any pattern



**MICRODROP.
THE DIFFERENCE.**

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HIGH PRECISION MICRODISPENSING INSTRUMENT SYSTEM DESCRIPTION

- Modularly designed for R&D applications and medium production
- Ability to customize the system according to the customer's applications
- Dispensing from pl to low μ l volumes with piezo electric driven microdispensers
- Up to 8 different dispensers for any viscosity and any surface
- Spot-on-the-Fly, fiducial auto-correction, QC on the fly, interior climate control

SOFTWARE

INTUITIVE FROM THE FIRST CLICK

- Setting individual dispensing parameters for each sample
- Import **EXCEL** or **DXF files** for structure information
- Point to point, Drop on Demand, Spot-on-the-Fly, QC on-the-Fly
- Image recognition, Fiducial marking, Positioning correction and Path compensation

All control electronics are operated via the user interface of the included Autodrop Software.

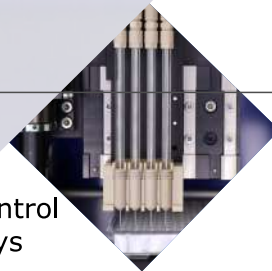


DISPENSERS		Inner nozzle diameter	Droplet diameter	Droplet volume	Viscosity range
Autopipettes		30 μ m, 50 μ m, 70 μ m, 100 μ m or customized	~50 μ m up to 90 μ m dispensed with standard pulse*	~65 pl up to 380 pl dispensed with standard pulse*	0.4 up to ~50 mPas
Microdispenser heads		30 μ m, 50 μ m, 70 μ m, 100 μ m, 120 μ m, 140 μ m	~50 μ m up to 120 μ m dispensed with standard pulse*	~65 pl up to 900 pl dispensed with standard pulse*	0.4 up to ~10,000 mPas
Piezovalves		100 μ m, 200 μ m, 500 μ m	N/A - jet ejection	minimum 5 nl per cycle	up to 2.000000 mPas
Nanojet		50 μ m, 100 μ m, 200 μ m, 500 μ m	N/A - jet ejection	<50 nl	0.4 up to ~50 mPas

* can be reduced up to 50% by using pulse modulation mode

OPTIONAL EXTENSION

- dispenser heads or piezo pipettes
- coolable & heatable dispensers
- coolable & heatable or vacuum holders
- source & target holders
- humidity & DEW point control
- customized substrate trays
- UV shield protection
- and more



YOUR
IDEAS?

CONTACT
US

TECHNICAL DATA

Electronic control unit	BLDC motors, ball screws, x- and z-axis each 50 W, y-axis 2x 50 W	
Travel range	x-axis 300 mm, y-axis 300 mm, z-axis 100 mm	
Repetition accuracy	$\pm 5 \mu$ m each axis	
Resolution	0.1 μ m	
Acceleration	maximum 1000 mm/s ²	
Velocity	maximum 125 mm/s ²	
Dimension WxDxH /weight	Benchtop model 800 x 800 x 800 mm/ 65 kg	Standalone model 780 x 760 x 1500 mm/ 115 kg