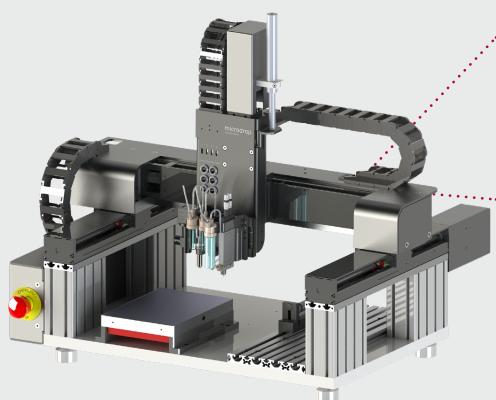


AUTODROP GANTRY II Customized

freely configurable for the Maximum Flexibility



ADVANTAGES

- dispensing from pico- to nanoliter
- inkjet printing and piezo valve jetting
- software controlled xyz-axis system
- wide viscosity range
- easy refilling and cleaning
- no disposable parts -> no follow on costs
- very good material resistance

EXTEND IT WITH

- dispenser heads, pipettes or valves
- holder for well plates
- holder for glass slides
- · vacuum plate, also heated or cooled
- humidifier
- customized substrate plates
- HEPA filter
- your ideas ... contact us.

A VERSATILE XYZ PLATFORM FOR MICRODISPENSING IN MULTIPLE FIELDS.

- drives up to 4x dispenser heads, pipettes or valves
- travel range of 300 mm x 300 mm in standard, but scalable positioning accuracy ±20 μm
- contact-less dispensing in the pico- to nanoliter range
- free choice of assembly

- ready-to-use system including intuitve software
- repetition accuracy ±5 μm
- wide range of optional items











AUTODROP GANTRY II Customized

TECHNICAL DATA OF THE AD-P-9100

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
Positioning accuracy	± 25 μm each axis
Repetition accuracy	± 5 μm each axis
Acceleration	maximum 1000 mm/s²
Velocity	maximum 100 mm/s
Additional possible load of positioning unit	maximum 2.5 kg
Dimension without hood and underframe// Weight	W: 690 mm / D: 650 mm / H: 600 mm // ~50 kg
Dimension with hood and underframe	W: 780 mm / D: 760 mm / H: 1500 mm

AUTODROP SOFTWARE

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

Short description Autodrop Software:

- Setting and saving of dispensing parameter
- Macroscript for programming automatic processes
- Print types: Point to point, in flight, vector based graphics
- Import and edit dxf files for printing curves and other structures (path control)
- Observation of dispensing droplets in flight and determination of drop velocity and drop volume
- Image recognition for substrate position and/or fiducial marks

USE THE SYSTEM WITH

Autopipettes

Inner nozzle diameter	Standard: 50 µm or 70 µm
Droplet diameter	$\sim\!70~\mu m$ up to $85~\mu m$ dispensed with pulse modulation mode, with standard pulse 70 μm up to $85~\mu m$
Droplet volume	~180 pl up to 320 pl dispensed with pulse modulation mode, with standard pulse 180 pl up to 320 pl
Viscosity range	0.4 up to ~20 mPas



Inner nozzle diameter	Standard: 50 μm, 70 μm, 100 μm, 120 μm, 140 μm
Droplet diameter	${\sim}65~\mu m$ up to 120 μm dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode
Droplet volume	~140 pl up to 900 pl dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode
Viscosity range	0.4 up to ~10,000 mPas

Nanojet valves

Dispensable Quantity	starting at ~0.5nl
Viscosity range	low to high viscosity up to 2,000,000 mPas
Compatibility	all aqueous fluids, organic acids, weak acids and bases



We are there for you. Contact us.