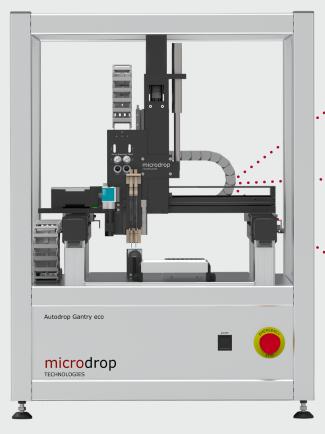


AUTODROP GANTRY ECO

The perfect entry into the world of microdispensing



ADVANTAGES

- dispensing from pico- to microliter
- software controlled xyz-axis system
- wide viscosity range
- easy refilling and cleaning
- no disposable parts -> no follow on costs
- high repetition and positioning accuracy

.. EXTEND IT WITH

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

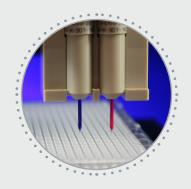
PERFECT FOR APPLICATIONS LIKE

- R&D purpose
- small batch productions

POWER PROGRESS ACROSS A RANGE OF APPLICATIONS

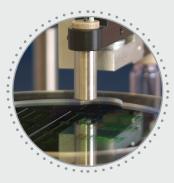
- drives up to 2x dispenser heads or pipettes
- travel range of 210 mm x 210 mm
- contact-less dispensing in the pico- to microliter range
- perfect and compact size for lab benches

- · ready-to-use system including intuitve software
- positioning accuracy ±25 μm
- repetition accuracy ±10 μm
- · wide range of optional items











AUTODROP GANTRY ECO

TECHNICAL DATA OF THE AD-P-9020

Electronic control unit	BLDC motors, ball screws, x- and z-axis each 50 W, y-axis 2x 50 W	
Travel range	x-axis 210 mm, y-axis 210 mm, z-axis 110 mm	
Positioning accuracy	± 25 μm each axis	
Repetition accuracy	± 10 μm each axis	
Resolution	0.1 μm	
Acceleration	maximum 500 mm/s ²	
Velocity	maximum 75 mm/s	
Additional possible load of positioning unit	maximum 2.5 kg	
Dimension (including feets)// Weight	W: 580 mm / D: 580 mm / H: 790 mm // ~62 kg	

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 μm dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode
Droplet volume	~180 pl up to 320 pl dispensed with standard pulse, can be reduced up to 50% by using pulse modulation mode
Viscosity range	0.4 up to ~20 mPas

Micro dispenser heads

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

EXTENSION POSSIBILITIES

- vacuum tables, also heatable
- holder for well plates
- holder options for glass slides

- laminar flow module
- ionizer
- humidifier

We are there for you. Contact us.

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