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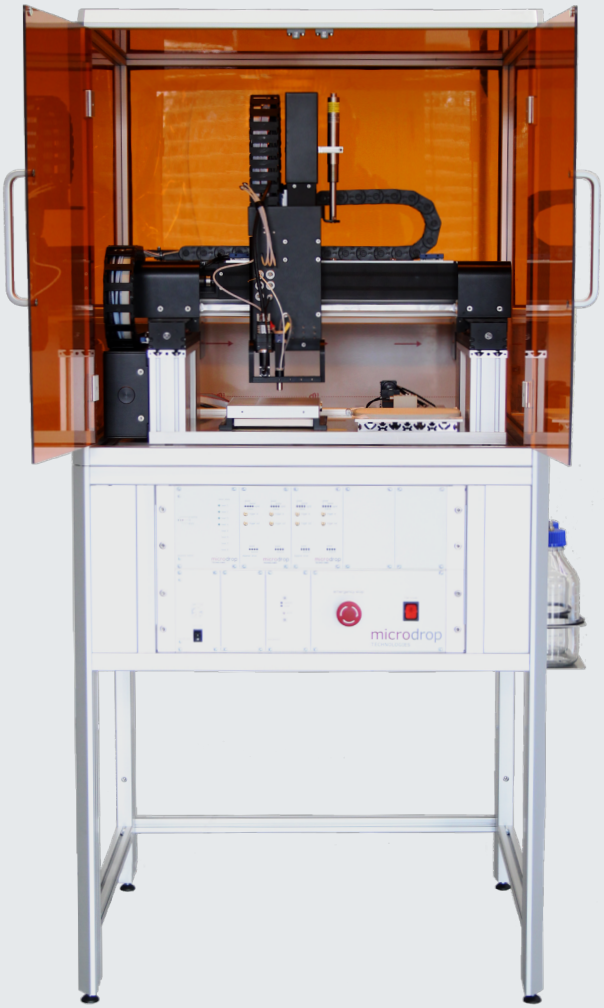
TECHNOLOGIES

Autodrop Gantry II Printing System

AD-P-9140



ADVANTAGES

- Contactless dispensing in pl to µl range
- Tabletop unit (optional with hood & frame)
- Software controlled xyz-axis system
- Easy refilling and cleaning of Micro dispenser heads
- Wide viscosity range
- High material resistance
- No disposable parts
- No follows on costs
- High flexibility

THE SYSTEM

The Autodrop Gantry II Printing System is a perfect start base for applications who demands working in the pico- to microliter range with a high repetition and positioning accuracy.

In its standard configuration the system is ready to start with 2x Micro dispenser heads or Autopipettes with the option to extend it up to four.
To make the system even more variable for different applications, it can be equipped with several optional components like a base frame or hood.

The generous travel range of 300 mm x 300 mm x 100 mm (x-, y-, z-axis) provides an versatile integration of different substrates on the platform.

The included Autodrop Software with its Graphics Design Editior allows the operator to define own free designed pattern like curves and lines. Vector based graphic files (dxf-format) are importable.

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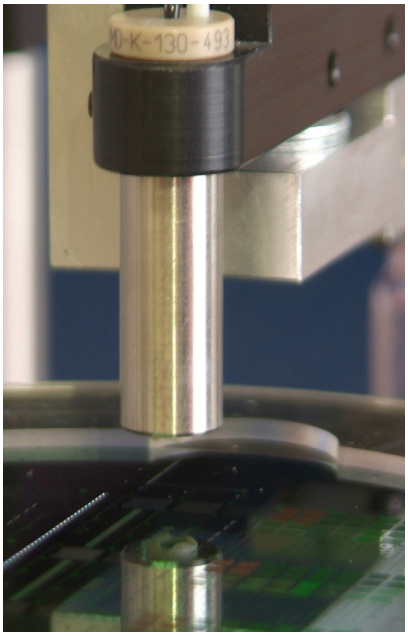
TECHNICAL DATA

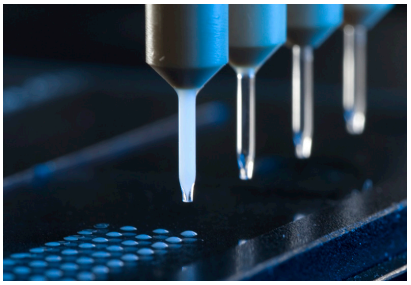
Autodrop Gantry II Printing System AD-P-9140	
Travel range	x-axis 300 mm, y-axis 300 mm, z-axis 100 mm
Positioning accuracy	± 20 µm each axis
Repetition accuracy	± 5 µm each axis
Acceleration	max. 1000 mm/s^2
Speed	max. 100 mm/s
Load	additional possible load of positioning unit at maximum 2.5 kg
Axis resolution	0.1 µm
Servo control/ Drive	3-axis servo control, programmable, ball screws linear stage, 4x BLDC motor
Dimensions without hood and underframe	w: 690 mm / d: 650 mm / h: 600 mm
Dimensions with hood and underframe	w: 780 mm / d: 760 mm / h: 1600 mm
Weight (without hood and underframe)	~50 kg

Application Example:
Biosensor

Application Example:
Microlubrication



Application Example:
Wafer Marking & Inking



Application Example:
Microarray

Application Example:
Printed Electronics

03/2021-e

microdrop Technologies GmbH
Tycho-Brahe-Kehre 1
22844 Norderstedt / Germany

Phone: +49 (0)40 53 53 83-0
Fax: +49 (0)40 53 53 83-24

info@microdrop.de
www.microdrop.de