

Printing System Autodrop Gantry AD-P-9000



ADVANTAGES

- Designed for inline-production
- Large printing area - extension by feeding system possible
- Contactless dispensing in pico- to microliter range
- Dispensing for a large fluid viscosity range
- Good material resistance
- Easy refilling and cleaning of dispensing system
- No disposable parts
- No follow on costs

The System

The Printing System Autodrop Gantry is a new device for inkjet printing and material deposition. microdrop Technologies makes a higher degree of automated production processes accessible to their customers.

The opportunity to integrate different microdrop dispenser variations like dispenser heads, pipettes and valves in combination with placing larger substrates or multiple microtiter plates makes the Printing System Autodrop Gantry an improvement in the range of existing handling systems.

Furthermore the option to adapt industrial feeding systems is still given.

Printing System Autodrop Gantry can be driven with up to eight microdrop dispenser heads, pipettes or dispensing valves.

Large size printable area of 360 mm x 600 mm x 100 mm makes the Printing System Autodrop Gantry to an ideal platform for inline-production. The substrate will be fixed while the dispenser units are movable.

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The optional Graphics Design Editor allows the operator to define own free designed pattern like curves and lines. Vector based graphic files (dxf-format) are importable.

Application fields

Printing System Autodrop Gantry is a versatile positioning unit for various dispensing application fields like Biochips, Pharmaceutical Cartridges, solar cells, displays, gas sensors and fuel cells.

TECHNICAL DATA

Printing System Autodrop Gantry AD-P-9000	
Drive	DC-Servomotors, x- and z-axis 150 W, y-axis 2 x 150 W
Travel range	x-axis 360 mm, y-axis 600 mm, z-axis 100 mm
Positioning accuracy	± 10 µm each axis
Repetition accuracy	± 3 µm each axis
Acceleration	max. 1000 mm/s ²
Load	max. 5 kg for all axes in total
Speed	max. 500mm/s
Servo control	3-axis servo control, RS 232, freely programmable
Dimensions	w: 850 mm / h: 1900 mm / d: 1100 mm
Weight	approx. 600 kg



Autodrop Pipette AD-K-901

Microdrop dispenser head MD-K-...

Nanojet Solenoid Valve MJ-K-...

Autodrop Pipette AD-KH-501-L6

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