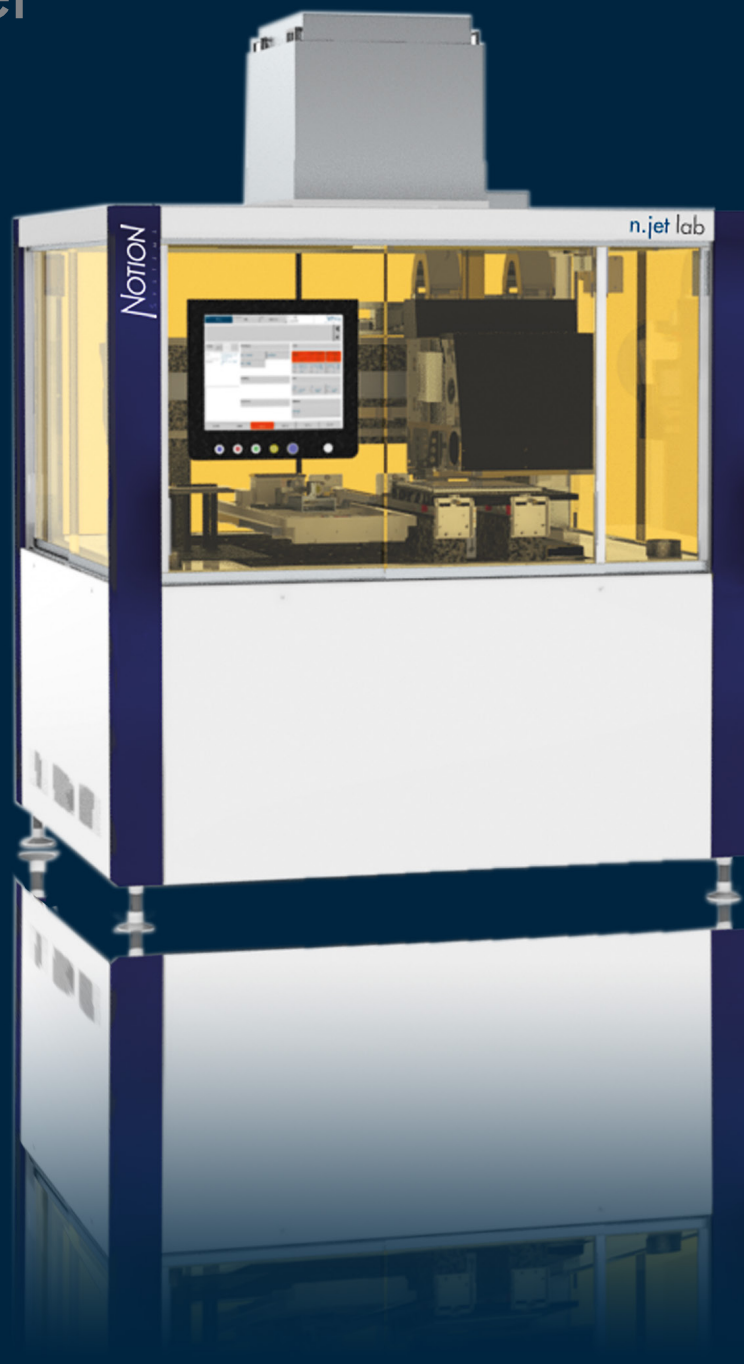


n.jet lab

R&D inkjet



Inkjet | Laser | Automation | Made in Germany

NOTION
S Y S T E M S

Product Specification

Advantages

- Smooth transfer from R&D scale to 24/7 industrial production systems
- Versatile applications with print heads from several manufacturers
- Fast and easy change between different heads & different inks
- Up to four different head/ink combinations in use simultaneously
- High precision mechanical design with self calibration including nozzle by nozzle calibration
- Easy to use graphical user interface
- Fun to work with

Mechanical & Interfaces

Stage size	156 x 156 mm, 305 x 305 mm & 400 x 400 mm
Substrate height	Up to 80 mm
Substrate fixture	Vacuum hold down
Print speed	Up to 1330 mm/s
Self calibration	Automated self calibration
x & y axis type	Ironless linear motor
x & y axis accuracy	±1 micron
x & y repeatability	±1 micron
z axis type	Servo motor spindle drive
z axis accuracy	±3 micron
Dimensions (LxWxH)	1800 x 1600 x 1900 mm
Electrical interface	400 V /16 A, 3 phases
Transformer	Supplied by Notion Systems
Power consumption	< 1 kW
CDA	6.5 bar - 8.5 bar
CDA consumption	< 1 liter per minute
Certificates & Safety	CE

Cameras

Alignment cam type	b/w CCD, 1624x1234 pixels
Alignment precision	±2 micron
Alignment types	2...4 fiducial marks, edge
Alignment light source	Selectable ring light source
Drop watch cam	b/w CCD, 1388 x 1038 pixels
Drop watcher	Real time
Drop watcher measure	Drop volume measurement

Software & Data Formats

User Interface	Intuitive GUI
Rasterizer	Drop spread accounted for
Data formats	Gerber, DXF, bitmap

Print Heads

Number of heads	4 slots
Head types	FujiFilm Dimatix, Konica-Minolta, Xaar, Kyocera, Toshiba, Ricoh
Mixed head types	Simultaneously up to 4
Mounting	Precision fast mount
Calibration	All nozzle positions calibrated better than 1 micron
Print resolution	Up to 5080 x 5080 dpi
Drop placement	±3 micron
Print repeatability	±1 micron

Ink System

Tank types	Fluid, Hotmelt (up to 120 °C)
Tank volume fluid S	Cartridge 1.5...50 ml
Tank volume fluid XL	600 ml
Tank volume Hotmelt	50 ml
Chemical compatibility	Inert o-rings, high-resilience
Automated refill system	Optional

Print Head Maintenance

Automated cleaning	Purge, seepage, standby jetting
Head cleaning types	Wipe, Noncontact vacuum
Simultaneous cleaning	Up to 4 heads simultaneously

Options

Built in UV curing	Heated stage
Built in NIR sintering	Automated loading
Adjustable head angle	Roll to roll
Rotation stage	HEPA environment
Humidity controlled environment	