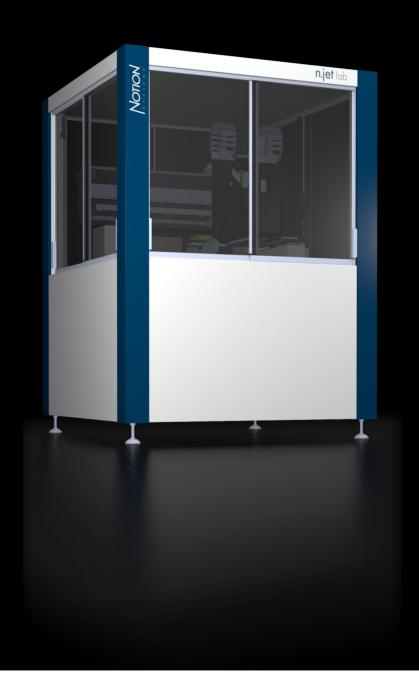
# n.jet lab R&D inkjet





## 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

156 x 156 mm, 305 x 305 mm & Stage size

400 x 400 mm Up to 80 mm Substrate height 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  $\pm 1$  micron x & y repeatability  $\pm 0.8~\text{micron}$ 

Servo motor spindle drive z axis type

z axis accuracy  $\pm 1$  micron

Dimensions (LxWxH) 1700 x 1600 x 1900 mm

400 V / 16 A, 3 phases Electrical interface Transformer Supplied by Notion Systems

< 1 kW Power consumption

CDA 6.5 bar - 8.5 bar CDA consumption < 1 liter per minute

Certificates & Safety

#### PRINT HEADS

Number of heads 3 slots Head types Dimatix, Konica-Minolta, Kyocera, Xaar, Xerox, Toshiba, Ricoh

Mixed head types Simultaneously up to 3

Mounting Precision fast mount Calibration All nozzle positions calibrated

better than 1 micron Print resolution Up to  $5080 \times 5080 \, dpi$ 

Drop placement  $\pm 3$  micron Print repeatability  $\pm 1$  micron

b/w CCD, 1624x1234 pixels Alignment cam type Alignment precision  $\pm 2$  micron

b/w CCD, 1388 x 1038 pixels

Drop watcher measure Drop volume measurement

#### INK SYSTEM Tank types

Fluid, Hotmelt (up to 120 °C) Tank volume fluid S Cartridge 1.5...50 ml Tank volume fluid XL 400 ml Tank volume Hotmelt 50 ml

Chemical compatibility Inert o-rings, high-resilience

Automated refill system Optional

#### CAMERAS

Alignment types 2...4 fiducial marks, edge Alignment light source Selectable ring light source Drop watch cam Drop watcher Real time

#### SOFTWARE & DATA FORMATS

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

### PRINT HEAD MAINTENANCE

Automated cleaning Head cleaning types Simultaneous cleaning Capping

Purge, seepage, standby jetting Wipe, Noncontact vacuum Up to 3 heads simultaneously Air tight capping as standard

#### **OPTIONS**

Built in UV curing Built in NIR sintering Adjustable head angle Rotation stage

Heated stage Automated loading Roll to roll HEPA environment

Specifications are subject to change without notice - 25/03/2014