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

Stage size Substrate height

Substrate fixture

Print speed Self calibration

x & y axis type x & y axis accuracy

x & y repeatability

z axis type z axis accuracy

Dimensions (LxWxH)

Electrical interface Transformer

Power consumption

CDA

CDA consumption

Certificates & Safety

 305×305 mm (larger on req.)

Up to 40 mm

Vacuum hold down

Up to 900 mm/s

Automated self calibration

Ironless linear motor

 ± 1 micron

 ± 0.3 micron

Servo motor spindle drive

 ± 1 micron

1860 x 1350 x 2000 mm

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

< 1 kW

6.5 bar - 8.5 bar

< 1 liter per minute

CE

PRINT HEADS

Number of heads

Head types

FujiFilm, Kyocera, Xaar, Xerox,

Toshiba, Ricoh

Mixed head types Simultaneously up to 4

Mounting

Print resolution

Drop placement

Print repeatability

Calibration

Precision fast mount

All nozzle positions calibrated

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

 ± 3 micron ± 1 micron

INK SYSTEM

Tank types

Tank volume fluid S

Tank volume fluid XL Tank volume Hotmelt

Chemical compatibility Automated refill system Fluid, Hotmelt (up to 120 °C)

Cartridge 1.5...10 ml

400 ml

50 ml

Inert o-rings, high-resilience

Optional

CAMERAS

Alignment cam type Alignment precision Alignment types Alignment light source

Drop watch cam Drop watcher

Drop watcher measure

b/w CCD, 1624x1234 pixels

 ± 2 micron

2...4 fiducial marks, edge Selectable ring light source

b/w CCD, 1388 x 1038 pixels

Real time

Drop volume measurement

PRINT HEAD MAINTENANCE

Automated cleaning Head cleaning types Simultaneous cleaning Capping

Purge, seepage, standby jetting Wipe, Noncontact vacuum Up to 4 heads simultaneously Air tight capping as standard

SOFTWARE & DATA FORMATS

User Interface Rasterizer Data formats

Intuitive GUI

Drop spread accounted for Gerber, DXF, bitmap

OPTIONS

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

Heated stage Automated loading Roll to roll

HEPA environment