

n.jet pcb
pcb inkjet



PRODUCT SPECIFICATION

ADVANTAGES

- Low total cost of ownership
- Less processes compared to lithography and LDI
- Well suited for small batch sizes
- Fast and easy change between different heads & different inks
- Robust performance for 24/7 production
- High precision mechanical design with self calibration including nozzle by nozzle calibration
- Available as manual loading, continuous panel conveyer and roll-to-roll

MECHANICAL & INTERFACES

Stage size	533 x 609 mm (larger on req.)
Substrate thickness	Up to 40 mm
Substrate fixture	Vacuum hold down chuck
Print speed	Up to 900 mm/s
Self calibration	Automated self calibration
x & y axis type	Ironless linear motor
x & y axis accuracy	±1 micron
x & y repeatability	±0.3 micron
z axis type	Servo motor spindle drive
z axis accuracy	± 1 micron
z axis speed	100 mm/s
Dimensions	2160 x 1650 x 2200 mm
Electrical interface	400V /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

ALIGNMENT

Alignment cam type	b/w CCD, 1624x1234 pixels
Alignment precision	±2 micron
Alignment types	2...4 fiducial marks, holes, edge
Alignment light source	Selectable ring light source

SOFTWARE & DATA FORMATS

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

PRINT HEADS

Number of heads	Up to 8 heads
Head types	FujiFilm, Kyocera, Xaar, Xerox, Toshiba, Ricoh
Mounting	Precision fast mount
Calibration	All nozzle positions calibrated better than 1 micron
Print resolution	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... 10 ml
Tank volume fluid XL	400 ml
Tank volume Hotmelt	500 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
Capping	Air tight capping as standard

OPTIONS

Built in UV curing	Heated stage
Built in NIR sintering	Automated loading
Adjustable head angle	Roll to roll
Rotation stage	HEPA environment
Drop watch cam	