Industrial Inkjet Ltd *Making inkjet work*

Industrial Inkjet XYPrint 300

The XYPrint 300 from Industrial Inkjet is a complete, high-accuracy inkjet system ideal for process development, print research, direct-product decoration, material deposition/additive manufacturing and low volume production. Using Konica Minolta inkjet printheads for highest possible accuracy, repeatability and reliability, the XYPrint 300 is designed to cover the widest possible range of process parameters. It offers fully flexible control of printhead setup, print parameters and ink drying/curing, combined with high speed, high accuracy motion. As standard it comes with a simple syringe-based ink system for rapid change of ink type and minimal ink wastage.

Features

- Granite bed for highest accuracy and stability
- Reinforced structure, minimises vibration or shock
- Isolated sub-frame mounts all equipment
- Scan speed 0 - 1.2 m/sec minimum
- Electronics and software drive for up to 8 printheads
- Mounting for 10 up to printheads in line, eg 8 heads plus 2 UV pinning lamps
- For example: White, LED, CMYK spot colour, LED, varnish.
- Improved ergonomic design: Better access into enclosure, all controls mounted externally
- True single-pass and multi-pass print capability
- Very thin media can be printed due to vacuum pressure control
- UV exhaust is ducted from the enclosure
- UV light impervious enclosure

Options

- UV lamps (pinning type and full cure. LED and Mercury)
- IR and near-IR lamps
- Additional heads (up to 16 total)
- Heads arranged in 2 rows (for 142mm single-pass print width)
- Automatic Z axis (height) adjustment in software (for 3D printing)
- Laser print-height measurement
- HEPA filter positive pressure enclosure (for dust-free print)
- A4 or A3 vacuum chuck size
- Full bulk ink system
- Recirculating ink system for white, or sedimenting inks
- Full variable image software (print a sequence of files defined in a database)
- Includes barcode library, serial numbering, date code
- Remote control of the system via TCP/IP protocol
- Heated vacuum plate (reduces max height of product being printed)
- UV lamp exhaust ducting
- IIJ is prepared to produce custom systems Please contact IIJ for details

Support and Training

Full on-site installation, training and technical support.

Technical support by direct internet machine access as well as on-site.

IIJ offers courses in optimisation of inks and fluids for use in Konica Minolta printheads.

IIJ's print sample lab – equipped with XYPrint systems – is able to offer preliminary sample feasibility work.

Printheads

The XYPrint 300 is available with head mounts for Konica Minolta printheads.

Custom printhead mount plates are available on request.

- Heads are available with and without built-in electrical heating.
- Printhead versions available for water-based, solvent, oil or UV cured inks.
- Special versions available for strong solvents, acids or alkalis
- Other combinations are possible, please contact IIJ for details.

Specifications

XY System	- Printheads fixed, product moves in X and Y axes - Z axis adjustable 0-120mm between printheads and vacuum chuck - Scan direction (x axis) 1200mm, step direction (y axis) 250mm - Absolute accuracy of motion +/- 3 micron - Repeatability of motion +/- 1 micron, scan velocity 0 -1.2m/s - Print area A4 vacuum chuck (x)297mm x (y)210mm - Print area A3 vacuum chuck (x)420mm x (y)297mm - Adjustable full UV cure position 100mm – 600mm
Software Features	- Integrated inkjet and motion control (1 click to print) - Full access to inkjet head parameters (waveform, voltage, fire frequency) - Full access to print resolution parameters - Automatic handling of multi-pass print - Accepts TIFF, JPEG, BMP, PDF image files - Accepts ICC profiles - Manual edit of colour linearisation
UV Lamps	- Optional LED pinning lamps between colours (KM1024 and KM1024i only) - Optional full cure mercury vapour lamp - Main UV lamp exhaust ducting system
Ink Supply	- Optional bulk ink supply - Optional recirculating ink system - Direct feed from 8 or 16 150ml syringes (1 per printhead) - All ink tubing FEP for excellent material compatibility - Ink pressure set by adjustable syringe height
Dimensions	- Height 2080mm - Width 2000mm - Depth 1280mm (excluding monitor/keyboard support)
Power Requirements	- Single phase 115V/60Hz or 220V/50Hz - Power: 2800VA

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