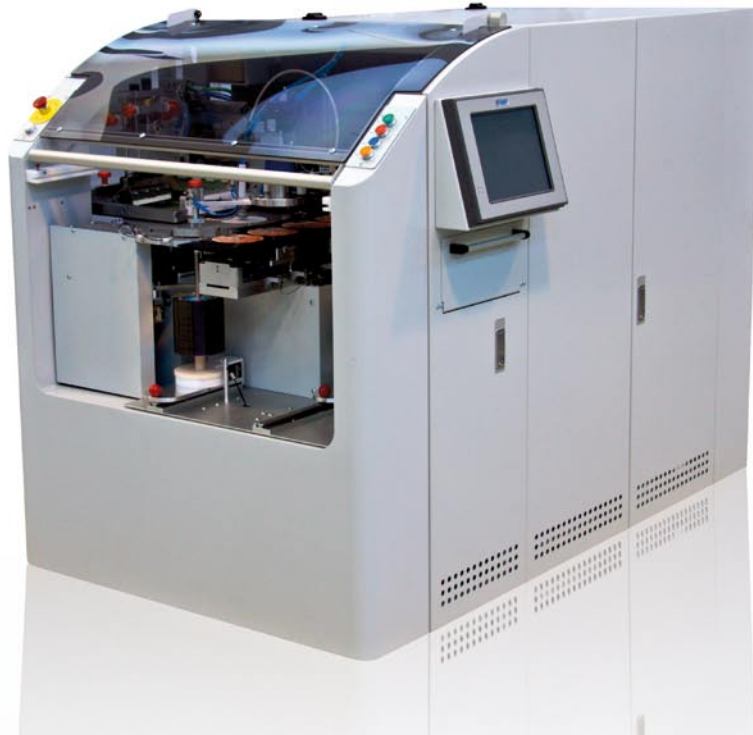


IPrint[®] mini

Multi Format Digital Printer



Incredibly versatile

IPrint is a revolutionary, versatile industrial UV inkjet printer, which prints directly onto the top surface of three dimensional objects such as optical discs, usb cards, usb keys, pens, badges or much larger items up to 150 mm thick.

Most inkjet printers are plotters, printing onto rolls, or flat bed printing onto sheets, IPrint is unique in its printing process as it prints onto individual items mounted onto a 'tray'.

The tray concept allows accurate alignment of the items to be printed and also a very fast change-over as the tray is exchanged at the end of each print cycle.

Printing a full tray in high resolution takes just over half a minute, therefore a full cycle including replacing the tray takes about a minute, as each tray can hold many articles, production of usb keys is 4,000 per hour.

Forty years of manufacturing experience is built into every machine, making them functional, robust with low running costs and close to zero print cost per item.

Tray concept

Articles are printed on trays, trays are loaded while printing is in progress, reducing downtime to a real minimum.

Smudge and scratch proof

The UV ink is cured to a hard finish. The printed product is smudge, scratch and water proof, providing a long lasting high quality print surface.

Fast job change-over

Changing the image to be printed, requires just a click on the touch-screen and the new 'job' is loaded within seconds.

Four to six colours

A wide choice of up to six colours is offered including white CYMK / CYMKLcLm / CYMKW.

Print ink cost

The total ink cost per item is close to zero, in addition there is very little waste as there is no set-up necessary.

Payback

Savings over conventional printing and increase in productivity will allow the capital expenditure to be paid back very quickly.

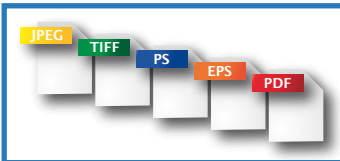
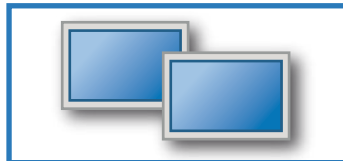


Image file

Any conventional image file is accepted, the process to turn the image into a rip-file is fully automatic and takes only a few minutes.



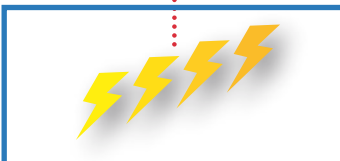
Software

A touch screen and proprietary programmes makes interfacing as simple as using your desk top printer.



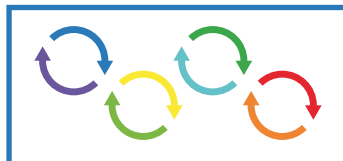
Direct print

The non-contact inkjet drop on demand technology allows a very high level of precision when printing onto three dimensional objects.



Print finish

UV ink can be cured within microseconds to a hard and resistant finish and also allows a high level of adhesion onto a wide choice of materials.



Job change

With no films, screens, plates or clichés, changing the image to be printed takes less than a minute.



Low cost

Many years of experience in the UV manufacturing environment has allows us to keep ink, spares, service and maintenance costs to a minimum.

Interchangeable tray concept



Flexibility and ease of product change is what makes IPrint so incredibly versatile. Individual items to be printed are loaded onto trays, these can be identical and requiring exactly the same image or each item can be different.

Exchanging one tray for another after each print cycle reduces machine downtime to a minimum allowing maximum output. Naturally the smaller the item the greater the quantity that can be loaded onto each tray.

Trays and image positioning templates are available for both standard and customised items.

- | | |
|----------------|-------------|
| Optical discs | Badges |
| Flash memory | Displays |
| Labels | Pens |
| Packaging | Decorations |
| Pharmaceutical | ID cards |
| Tiles | Gadgets |

Technical specifications

Substrate	
Surface	Non porous
Surface type	PVC, polyester, polycarbonate, polystyrene, polypropylene, plastic, OPP cardboard, glass, wood, metal, ceramic, acrylic
Maximum print area	600 x 400 mm
Maximum substrate height	150 mm
Print	
Head bridge	Up to 12 UV piezoelectric drop on demand inkjet heads
Ink type	UV curable with high adhesion on media
Ink supply	Collapsible bags changeable during print process - low level sensor
Colours	C M Y K Lm Lc White Clear
Software	
PLC	IPrint Tapematic programme
RIP	Licensed imaging and correction software included
Image transfer	LAN, USB, wireless
Original image files	PostScript, PDF, Jpeg, Tiff, EPS
Images stored	> 6000, divided in folders
Process	
Substrate in-feed	Multi items on a removable tray
Printing	Multi pass
Print cycle	Tray movement via reciprocating shuttle action
Production	60 trays per hour
Physical	
Dimensions	1000 w x 1600 l x 1300 h mm
Weight	800 kg
Utilities	
Power	220V single phase 50/60 Hz 8 k VA
Air	6 bar 200 N l/min
Vacuum	- 0.8 bar 10 m ³ /hr
Water	Chiller 4 k VA
Environment	
Work area	3 m x 3 m ceiling height minimum 2.5 m
Temperature	22 - 25 °C
Relative Humidity	55 - 65% non condensing
Safety	
CE	Complies with all current regulations
Ink	Non toxic fumes - no exhaust required
Options	
White ink	CMYK + White
Trays	Standard - personalized
Serialization	Progressive numbering

We reserve the right to make modifications without prior notice

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