KONICA MINOLTA

YOU WANT TO ADD VALUE TO YOUR PRINT JOBS
RETHINK INDUSTRIAL PRINTING

Digital spot UV coating and hot foil stamping
on different page sizes up to 36,4 x 102 cm
For Variable Data Foiling

Giving Shape to Ideas

DIGITAL HIGH-END EMBELLISHMENT SYSTEM FOR THE LOOK & FEEL EFFECT

MGI JETVARNISH 3DS

Don't limit yourself to beautifully printed jobs any longer – it's time to offer your customers more value and creativity ! The JETVARNISH 3DS turns printed jobs into spectacular and irresistible print products that will immediately catch the attention of your customers. With the JETVARNISH 3DS, you will find it easy to spot coat digital prints, highlight defined areas, or add 3D effects – all of which enables you to offer attractive print products that are more vivid and tactile. The combination with the inline hotfoiling module iFOIL S gives you a glamurous effect.

RECOMMENDED CONFIGURATIONS

YOUR ADVANTAGES WITH THE MGI JETVARNISH 3DS & iFOIL S
RETHINK INDUSTRIAL PRINTING

ECO-FRIENDLY IN-LINE LED DRYER

– On-the-fly drying & curing with integrated LEDs

– No additional drying time required

– Ozone-free and without heat thanks to LED technology

– Low power consumption

DIGITAL ADVANTAGES

– Ideal for lucrative short and medium print runs

– Fast make-ready

– No plates or screens needed

– All that's required is a digital mask

– Wide range of substrates possible

VARNISH DIGITAL AND OFFSET PRINTS

– Varnishing on toner without lamination

– Varnishing on offset prints

– Accurate sheet-to-sheet registration with the AIS SmartSanner technology

– Quick and easy setup supports digital printing business model

VARIABLE VARNISH THICKNESS

– Can be adapted to individual customer needs

– Maximum 3D effect: up to 232 µm*

– Minimum thickness (on laminated surfaces): from 21 µm

KONICA MINOLTA PRINT HEADS

– Exclusive MGI's inkjet technology

– With genuine Konica Minolta piezoelectronic printheads

– Produce any line thickness from 0.5 mm to as wide as the sheet

SOFTWARE SUITE INCLUDED

– On-the-fly job manager

– Reprint function

– Image editor

– Catalogue of different patterns

– Cost calculation and export of data

– For intuitive operation

– Saves time and money

CORONA TREATMENT SYSTEM (CTS)

– Optional In-line system, which enables the JETVARNISH 3D One to use a higher viariety of different media (e.g. plastic, etc.)

– Improves the adhesion of the varnish and maximizes the embellishment quality on digital prints

– With optional ozone filter cabinet

AIS SCANNER

– Full page scanner

– For on the fly coating registration from sheet to sheet

– For on-the-fly paper skew, shift, contraction and stretch adjustment

VARIABLE DATA OPTION

– Barcode reader option available

– For Variable Data Printing

– For spot UV coating without manual intervention

ENVIRONMENTALLY FRIENDLY

– Ink is in a closed/circuit system

– No ink and varnish residues

– No cleaning in-between jobs

– No material waste between jobs

– Reduced paper, varnish and electrical consumption

HIGH PRODUCTIVITY WITH SINGLE PASS PRINTING

– Up to 2,077 A3 sheets/hour with varnish thickness of 21 μm (2D/flat mode)

– 1,468 A3 sheets/hour with varnish thickness of 43 μm (3D mode)

– Up to 547 A3 sheets/hour with varnish thickness of 116 μm (3D mode)

VARIABLE DATA FOILING

– Short set-up time of jobs

– For personalised foil applications

– High flexibility

– On digital and offset prints

– Fast make-ready

– Exclusive look and feel

TECHNICAL SPECIFICATIONS
RETHINK INDUSTRIAL PRINTING

PRODUCT SPECIFICATIONS – JETVARNISH 3DS

Printing technology	MGI's exclusive inkjet engine technology; Drop-on-Demand (DoD) technology; Piezoelectric printheads,developed and manufactured by Konica Minolta; Single pass printing; Flexible & scalable printing architecture
Coating thicknesses	Depending on your file, the inks used and the type of surface of your sheet, the coating thickness can vary. On laminated and aqueous coating: 21 µm – 232 µm* for 3D raised effects and tactile finish. On toner and coated paper: 30 µm – 116 µm/232* µm for 3D raised effects and a tactile finish
Production speed	In 2D/flat mode: Up to 2,077 A3 sheets per hour (with 21 µm) In 3D/raised mode: Up to 1,468 A3 sheets per hour (with 43 µm) Up to 547 A3 sheets per hour (with 116 micron)
Registration	SmartScanner coupled with Artificial Intelligence (AIS) for fully real-time automated sheet-to-sheet registration process. No crop mark required.
Formats	Min. 21 x 29.7 cm / 8 x 11.8'' Max. 36.4 x 102 cm / 14.33 x 40.15'' Max. Printable Width 35.3 cm
Substrate thickness	Min: 135 gsm and not less than 150 µm or 6 mil before printing & lamination; Max: 450 gsm and not more than 450 µm or 18 mil before printing & lamination; Motorized height-adjustment print heads
Substrates **	Printing on most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials.
Varnish on toner	Spot 3DS coat directly onto most digital prints with no lamination or coating required.
UV coatings and capacity	3D varnish delivered with a 10-litre tank capacity
High capacity Automatic feeder	Feeder able to handle a paper pile up to 30 cm; 2,500 sheets at 135 gsm
High pile output stacker	Stacker able to handle a paper pile up to 30 cm; 2,500 sheets at 135 gsm
Paper path	100 % flat paper path; Vacuum feed system; Air feed system; Automatic double sheet detection; In-line LED dryer; ''On-the-fly'' drying & curing via integrated LED; Spot Coated sheets can be immediately finished or handled, no additional drying time required
Front end system	Dedicated PC; CPU + touch-screen + keyboard/mouse; Ethernet connection 10/100/1000 BT (RJ 45); Built-in Application Software Suite; Comprehensive job queue management; Predictive printing cost calculator (coating consumption); Dedicated image editor to do local and fast image editing prior to production
Maintenance & remote technical support	Daily maintenance completed in less than 10 minutes; Majority of procedures are automated; Automatic cleaning system; From cold start to production in less than 10 minutes; Remote troubleshooting & support via included video/web camera (high speed internet connection required)
Operator panel	Integrated user-friendly LCD touch-screen
Options	Twin bar option: 2nd inkjet bar to increase 3D print speed and coating thickness up to 232 µm. Variable data option: Complete system including RIP, barcode reader and MGI software to automatize the association between a pre-printed barcode and its specific spot coating file
Additional Option	Corona One for JV3D One/JV3DS with an optional Ozone Filter Cabinet in order to increase the quality of varnish on digital prints
Dimensions (L x W x H)	4.26 (5.47*) x 1.14 x 1.80 meter (with the longest paper extensions installed) 1 metre clearance required on all 4 sides
Weight	± 1,100 kg
Electrical requirements	7.5 kW (32 A) at 220–240 V; 2 plug CEE/IP44 32A (1P+N+E)
Operating	Temperature: 18 to 30°C Environment Relative humidity: between 35 – 55% (no condensation)
Respecting the environment	Eliminates resource waste (wasted electricity, paper and varnish); No plates (offset) or screens (screen printing); No cleanup or preparation between jobs; Drastic reduction in amount of consumables and use of bulk packaging; Coating without volatile solvent.

The default sheet format is A3, unless otherwise stated
1) with an additional option installed
2) speed will vary according to printing parameter used
3) confirm substrate/toner compability with KM
* With the Twin Bar
** The used substrate needs to be either coated or laminated.
  Otherwise the media is absorbing the varnish and the desired effect might get lost.

iFOILs

PRODUCT SPECIFICATIONS – iFOIL S

Production speed	Up to 2,298 A3 sheet size per hour (or 20 meters/min)
Formats	Min: 21 x 29.7 cm
	Max: 36.4 x 102 cm
Hot foil stamping area	32 x 102 cm
Substrate thickness	Min: 135 gsm and not less than 150 µm/6 mil before printing and lamination; Max: 450 gsm and not more than 450 µm/18 mil before printing and lamination; Motorised height-adjustment print heads
Substrates	Most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials
	Most digital prints without any lamination or coating
Foil rolls	Standard internal core: 1 inch - Min./Max. widths: 10/36 cm, 400 meter length (average)
	Up to 3 rolls loaded simultaneously on the same holder
	3" internal core is optional
Embossing	From 21 µm to 116 µm thickness
	From 21 µm to 232 µm thickness (Twin Bar optional)
Compatibility	Online module that connects to all JETVARNISH 3DS
Dimensions (L x W x H)	2.09 x 1.24 x 1.80 meter
Weight	± 850 kg
Electrical requirements	7.5 kW (32 A) at 220–240 V – 50/60 Hz
	2 plugs CEE/IP44 32A (1P+N+E)
Options	High capacity stacker for paper stacking up to 60 cm paper height
	3" core inch foil holder