Technical specifications

PRODUCT SPECIFICATIONS - JETVARNISH 3DS

Printing technology	MGI's exclusive inkjet engine technology	Front end system	Dedicated PC; CPU + touch-screen + keyboard/mouse	
	Drop-on-Demand (DoD) technology		Ethernet connection 10/100/1000 BT (RJ 45)	
	Piezoelectric printheads, developed and manufactured		Built-in Application Software Suite	
	by Konica Minolta		Comprehensive job queue management	
	Single pass printing		Predictive printing cost calculator	
	Flexible & scalable printing architecture		(coating consumption)	
Coating thicknesses	Depending on your file, the inks used and the type of		Dedicated image editor to do local and fast	
	surface of your sheet, the coating thickness can vary.		image editing prior to production	
	On laminated and aqueous coating: 21 µm – 232 µm*	Maintenance &	Daily maintenance completed in less than 10 minutes	
	for 3D raised effects and tactile finish. On toner and	remote technical	Majority of procedures are automated	
	coated paper: 30 μm – 116 μm/232* μm for	support	Automatic cleaning system	
	3D raised effects and a tactile finish		From cold start to production in less than 10 minutes	
Production speed	In 2D/flat mode:		Remote troubleshooting & support via included video/	
	Up to 2,077 A3 sheets per hour (with 21 µm)		web camera (high speed internet connection required	
	In 3D/raised mode:	Operator panel	Integrated user-friendly LCD touch-screen	
	Up to 1,468 A3 sheets per hour (with 43 µm)	Options	Twin option (available soon):	
	Up to 547 A3 sheets per hour (with 116 micron)		2 nd print engine to increase 3D print speed and coating	
Registration	SmartScanner coupled with Artificial Intelligence (AIS)		thickness, up to 232 µm variable data option.	
	for fully real-time automated sheet-to-sheet		Variable data option:	
	registration process. No crop mark required.		Complete system including RIP, barcode reader and	
Formats	Min. 21 x 30 cm / 8 x 11.8"		MGI software to automatize the association between	
	Max. 36.4 x 102 cm / 14.33 x 40.15"		a pre-printed barcode and its specific spot coating file	
	Max. Printable Width 35.5 cm	Dimensions	4.26 (5.47*) x 1.14 x 1.80 meter	
Substrate thickness	Min: 135 gsm and not less than 150 µm or 6 mil	(L x W x H)	(with the longest paper extensions installed)	
	before printing & lamination		1 metre clearance required on all 4 sides	
	Max: 450 gsm and not more than 450 µm or 18 mil	Weight	± 1,400 kg	
	before printing & lamination	Electrical requirements	7.5 kW (32 A) at 220-240 V; 2 plug CEE/IP44	
	Motorized height-adjustment print heads		32A (1P+N+E)	
Substrates**	Printing on most matte or glossy laminated surfaces,	Operating	Temperature: 18 to 30°C	
	with or without aqueous coating, layered paper, plastic,		Environment Relative humidity: between 30 and 50%	
	PVC and other coated materials.		(no condensation)	
Varnish on toner	Spot 3DS coat directly onto most digital prints with	Respecting the environment	Eliminates resource waste (wasted electricity,	
	no lamination or coating required.		paper and varnish)	
JV coatings and capacity	3D varnish delivered with a 10-litre tank capacity		No plates (offset) or screens (screen printing)	
ligh capacity	Feeder able to handle a paper pile up to 30 cm		No cleanup or preparation between jobs	
Automatic feeder	3,000 sheets at 135 gsm		Drastic reduction in amount of consumables and	
High pile output stacker	Stacker able to handle a paper pile up to 30 cm		use of bulk packaging.	
	3,000 sheets at 135 gsm		Coating without volatile solvent.	
Paper path	100 % flat paper path; Vacuum feed system	The default sheet format is A3, unless otherwise stated 1) with an additional option installed		
	Air feed system; Automatic double sheet detection			
	In-line LED dryer		speed will vary according to printing parameter used serium substrate (feacy composition with KM)	
	"On-the-fly" drying & curing via integrated LED	 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. 		
	Spot Coated sheets can be immediately finished or handled, no additional drying time required			
	or nangiag no additional driving time required			

PRODUCT SPECIFICATIONS - iFOIL-S

Production speed	Up to 2,298 A3 sheet size per hour	Foil rolls	Standard internal core: 1 inch - Min./Max. widths:
	(or 20 meters/min)		10/36 cm
Formats	Min: 21 x 29.7 cm		400 meter length (average)
	Max: 36.4 x 102 cm		Up to 2 rolls loaded simultaneously on the same holder
Hot foil stamping area	33.5 x 100 cm		3" internal core is optional
Substrate thickness	Min: 135 gsm and not less than 150 µm/6 mil	Embossing	From 21 µm to 116 µm thickness
	before printing and lamination		From 21 µm to 232 µm thickness (Twin Bar optional)
	Max: 450 gsm and not more than 450 µm/18 mil	Compatibility	Online module that connects to all JETVARNISH 3DS
	before printing and lamination	Dimensions (L x W x H)	2.09 x 1.24 x 1.80 meter
	Motorised height-adjustment print heads	Weight	± 850 kg
Substrates	Most matte or glossy laminated surfaces, with or	Electrical requirements	7.5 kW (32 A) at 220-240 V - 50/60 Hz
	without aqueous coating, layered paper, plastic,		2 plugs CEE/IP44 32A (1P+N+E)
	PVC and other coated materials	Options	
	Most digital prints without any lamination or coating		High capacity stacker for paper stacking up to
			60 cm paper height
All appointment refer to A4 aiz	a nanar of 00 cam quality		3" core inch foil holder

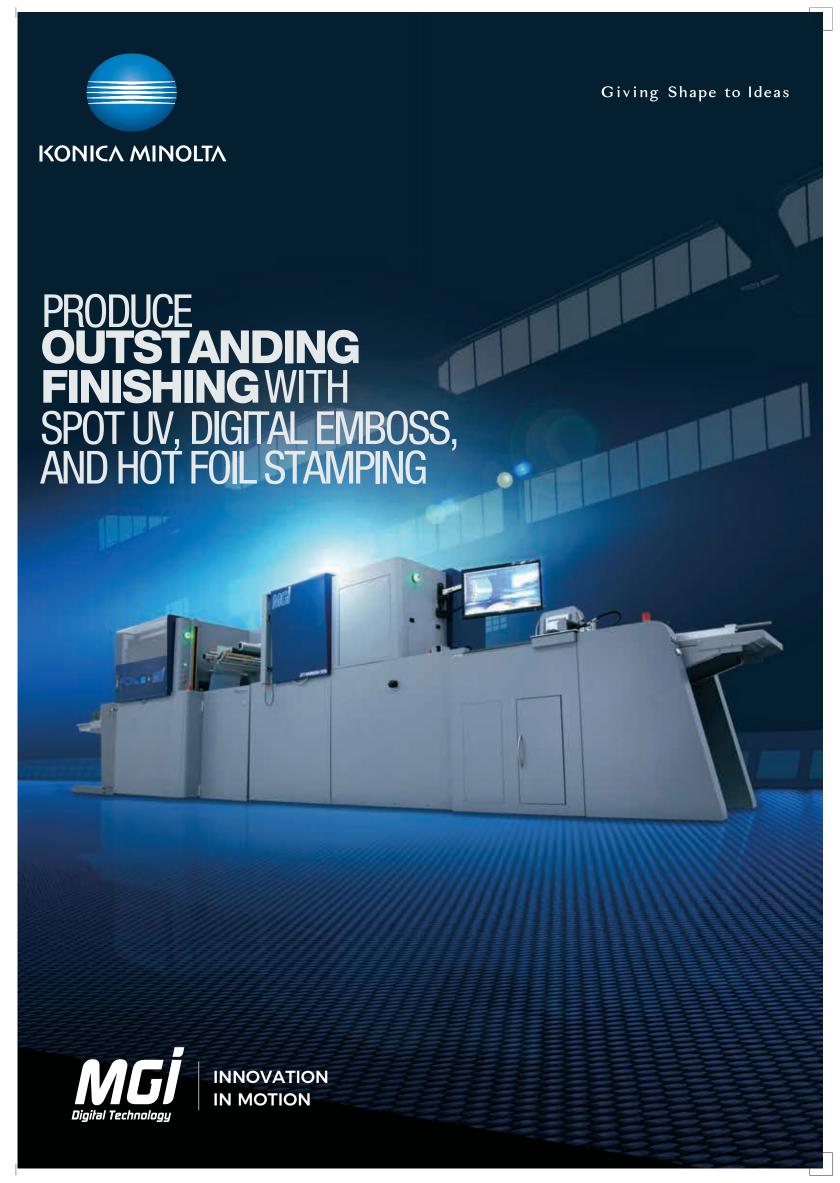
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For more information: SMS "KM IP" to 52424 or Call: 1-800-266-2525 Konica Minolta Business Solutions India Pvt. Ltd. URL: www.konicaminolta.in, marcom@bin.konicaminolta.in | Konica Minolta Inc., Tokyo, Japan.

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All specifications refer to A4-size paper of 80 gsm quality.

The support and availability of the listed specifications and functionalities varies depending on operating systems, applications and network protocols as well as network and system configurations.

The stated life expectancy of each consumable will vary depending on use and other printing variables including page size, f5% coverage of A4).

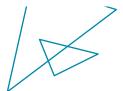
The actual life of each consumable will vary depending on use and other printing variables including page coverage, page size, media type, continuous or intermittent printing, ambient temperature and humidity.

Some of the product illustrations contain optional accessories.

Specifications and accessories are based on the information available at the time of printing and are subject to change without notice.

**Voice Microbiated does not warrant that any uniques or specifications mantioned will be error-free.





FOR MORE PRODUCTIVITY



IFOIL L - PERSONALIZED EMBOSSED HOT FOILING

All of the JETvarnish 3DS models offer a fully integrated, inline option to add the awardwinning iFOILS Hot Foiling System. This module can be installed at the time of purchase or in the future as a field upgrade.

JETVARNISH 3DS

Technical Boo

Through a revolutionary digital process, the iFOIL eliminates the need for films, dies, screens and makeready. This allows quick and easy production of foil stamping jobs from one to thousands of sheets.

This scalability of foil customization and personalization enables printers and trade finishers to expand into profitable new markets segments.

Spectacular and unique effects are now available within a 100% digital process:

Embossing

Multiple colored foils applied in one pass

- (upto 2 colors)
 Variable data foiling (VDF) with 2D/3D UV Coating
- Foil over foil to create dramatic special effects
- This functionality produces digital and variable Unique capability to foil and emboss on

The JETvarnish 3DS and iFOIL S combination creates both visual and tactile excitement that print buyers, end-users and brand owners are looking for, to distinguish their products in the marketplace.

The software suite simplifies layout mask changes on sheets ranging from 8x11.8" format to 14.33x40.15" and on substrates ranging from 150 up to 450 microns (µm).



It is designed to produce brillant foil effects on iobs printed on offset, flexo and digital presses. Foil can be applied on coated/uncoated papers, synthetics, plastics, laminated films and aqueous coated surfaces.

Adding in-line digital foil adds value and profitability while reducing out sourcing costs and job completion delays.





INVESTMENT PROTECTION AND INCREASED PRODUCTIVITY

The JETvarnish 3Ds has been designed to evolve with the growth of your business according to changing business needs and new business development opportunities.

MGI 3Ds machines can be upgraded in the field with 2nd print Engine to increases 3D print Speed and coating thickness up 232 Microns.

VARIABLE DATA PRINTING (VDP)

The Variable Data Printing option adds full personalization capabilities for maximum marketing impact.

Push your documents personalization beyond the limits with varnish and hot foil stamping variable data printing.

Make basic customization with standard layout, etc, to reach an unique piece.

Optical "on-the-fly" variable data system uses camera and preprinted barcodes. With the performance PC RIP with software and a barcode camera are included. Generate your 3Ds amaze you.



A TECHNOLOGICAL REVOLUTION...

THE TECHNOLOGICAL REVOLUTION: ARTIFICIAL INTELLIGENCE SMARTSCANNER (AIS)

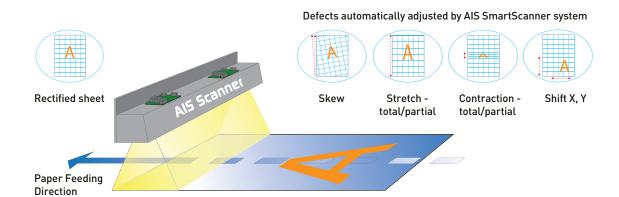
The MGI AIS system is a revolutionary registration development for the printing and finishing industry:

- Eliminates more than 80% of operator set-up time spent on registration processes and reduces make-ready waste
- Allow quick and seamless integration within job workflows with simple, automatic "scan and register" set-up process
- Supports rapid equipment amortization with increased throughput, faster job completion and greater productivity
- Removes unnecessary operator wage costs & paper make-ready waste associated with analog set-up processes

The AIS system uses Artificial Intelligence to create an automatic varnish and hot foil registration for inkjet heads over the preprinted sheet. It is fully compatible with Variable Data Finishing (VDF) jobs. Using print image and inkjet synchronization algorithms, the exclusive and patented AIS system runs at more than 5,000 billion of operations per second. Without operator intervention or a decrease in feeding speed, it makes corrections and adjustments for any defects generated by the original offset or digital printing run and any lamination process.

- Sheet and image skew
- Sheet and image shift on X and/or Y direction
- Sheet and image stretch partial or total
- Sheet and image contraction partial or total

"ARTIFICIAL INTELLIGENCE THAT DOES THE WORK FOR YOU."

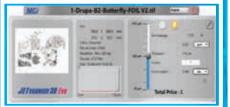


SOFTWARE SUITE AND TOUCHSCREEN INTERFACE

The JETvarnish 3D Evo has an innovative software suite developed by MGI that includes management tools such as: a job cost calculator, workstation image editor, reprinting utility, AIS SmartScanner set-up and variable data controller. All job management functions operate via intuitive touchscreen interface. This software suite allows operators to manage all operations related to production and maintenance, via the workstation interface.

SPOT VARNISH EDITOR An easy to use graphical tool designed by MGI for editing job files at the workstation. This utility allows production operators to quickly modify enhancements without going back to prepress. This software saves time and allows operators to set up jobs in minutes and conduct rapid prototyping directly from the equipment workstation. Varnish and foil enhancements are designed for high production work environments.

JOB COST CALCULATOR Based on your job's image file, this powerful calculator forecasts varnish consumption costs traditional spot coating technologies. This powerful functio automatically calculates precise production costs in advance of actual production. It is a valuable tool for managing suppl also available on a PC for your pricing and sales departments





MGI JETVARNISH 3DS WITH IFOIL S

■ HIGH-PILE OUTPUT STACKER

■ DIGITAL ADVANTAGES

Fast make-ready

- Automatic stacking of prints to a maximum height of 30 cm
 Minimum stacking format A4 (21 x 29.7cm)
 Maximum stacking format 36.4 x 102 cm

• Ideal for lucrative short and medium print runs

No plates or screens neededAll that's required is a digital 5th colour mask

Wide range of substrates possible

■ KONICA MINOLTA PRINT HEADS

- Exclusive MGI inkjet technology
- Produce any line thickness from 0.5 mm

■ 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

■ SOFTWARE SUITE INCLUDED

- On-the-fly job managerReprint function
- Image editor
- Catalogue of different patternsCost calculation and export of data
- For intuitive operation
- Saves time and money

■ AIS SMARTSCANNER

- Each sheet is scanned and chcked
- No registration marks
- No make ready time wastes

■ VARIABLE DATA OPTION

- Personalise & SerialiseBarcode readerWithout manual intervention

- HIGH PRODUCTIVITY WITH SINGLE PASS PRTINTING
 Up to 2,298 A3 sheets/hour with varnish thickness of 21 µm (2D/flat mode)
 1,624 A3 sheets/hour with varnish thickness of 42 µm (2D mode)
 - of 42 µm (3D mode)
- 812 A3 sheets/hour with varnish thickness
- of 86 μm (3D mode)
 Up to 513 A3 sheets/hour with varnish thickness of 116 µm (3D mode)



- VARNISH DIGITAL AND OFFSET PRINTS
 Varnishing on toner without lamination
 Varnishing on offset prints with or without lamination or aqueous coating
 Accurate sheet-to-sheet registration with AIS registration feature
 Quick and easy setup supports digital printing business model

■ VARIABLE VARNISH THICKNESS

- Can be adapted to individual customer needs
- Maximum 3D effect: 116 μm
- Minimum thickness (on laminated surfaces): 21 µm
 Minimum thickness (directly on toner): 42 µm

■ ENVIRONMENTALLY FRIENDLY

- Ink is in a closed-circuit system
- No ink and varnish residues
- No cleaning in-between jobsNo material waste between jobs
- Reduced paper, varnish and electrical consumption

■ MEDIA PROCESSING

- Wide range of paper weights of up to 450 gsm
 Printing on most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other closed surface materials.
 Spot 3D coating directly onto most digital prints with no lamination or coating required.

UV COATING ON on different page sizes from A4 to 36,4 x 102 cm PASS printing

UP TO**116**MICRON
thickness

Wide range of substrates up to **450 GSM**

Produced by MGI **EXCLUSIVELY** for **Konica Minolta**

