

**PRODUCE
OUTSTANDING
FINISHING WITH
SPOT UV, DIGITAL EMBOSS,
AND HOT FOIL STAMPING**



MGI JETVARNISH 3DS WITH iFOIL S

CREATE **impactful** printed materials with **Spot UV!**

PROFESSIONAL PERFORMANCE.

With rugged design and respect for the environment, JETVARNISH 3DS is built to get the job done in demanding production applications. Pro-class features include:

COMMUNICATIONS IMPACT

Make your client's products and services stand out from the crowd with striking 3D raised effects. Adding spot coating to printed brochures, display materials, packaging and other communications materials gives your clients a tactile impact that online information can't deliver.

NO PLATES OR SCREENS

With 100% digital performance, the JETVARNISH 3DS eliminates the need for expensive and time-consuming plates, screens or setups.

HIGH-GLOSS COATING

Using a new high-gloss coating formula, the JETVARNISH 3DS delivers a gloss level of 99 GU (Gloss Units) – beyond the reach of traditional analog technology.

INKJET TECHNOLOGY

Precise piezoelectric print heads enable the JETVARNISH 3DS to create lines as small as 0.5mm or as wide as a full 36.4 cm sheet – and you'll be able to switch from one job to another with no equipment cleaning required.

FLAT & 3D EFFECTS

There's no need to choose between traditional flat spot coating or 3D raised effects, because the JETVARNISH 3DS can do them both on the same sheet.

FAST OUTPUT

With throughput speeds up to 2,300 sheets per hour, spot varnish applications won't compromise your productivity. From short to medium runs, the JETVARNISH 3DS gets the job done better and faster.

EXTENDED FORMATS

For larger originals like book covers with multiple flaps, the JETVARNISH 3DS can cover sheets up to 36.4 cm wide and 102 cm long – another unique feature to increase your production opportunities.

PRODUCTION ASSISTANCE.

JETVARNISH 3DS features a software suite designed for streamlining and facilitating your production. The package includes three main modules: 3DS HubManager, Spot Varnish Editor, and Production Cost Analyser, all controlled from a large graphic touchscreen:

3DS HUBMANAGER

With simple touchscreen control, the 3DS HubManager lets you monitor jobs, manage the queue, create job tickets, launch reprints, and adjust the ARC system.

SPOT VARNISH EDITOR

User-friendly Spot Varnish Editor software lets your JETVARNISH 3DS operator perform final touch-up of graphic files (Spot-UV layer) – speeding response time and increasing throughput to help turn jobs around more quickly.

PRODUCTION COST ANALYSER

For each file that is spot-coated, this powerful calculator can anticipate the exact quantity of varnish required and the cost of the upcoming production run – an immediate benefit not possible with conventional technology.



MGI JETVARNISH 3DS WITH iFOIL S

■ HIGH-PILE OUTPUT STACKER

- 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

■ KONICA MINOLTA PRINT HEADS

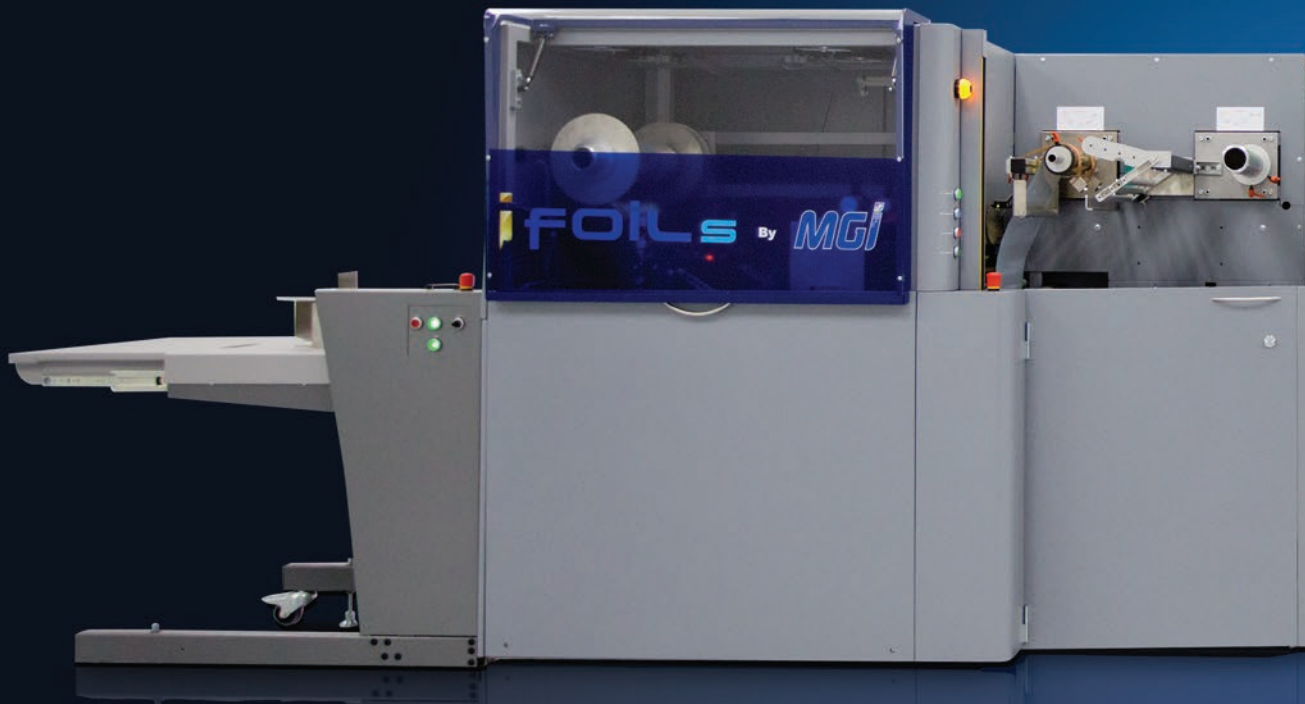
- Exclusive MGI inkjet technology
- Produce any line thickness from 0.5 mm

■ 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 5th colour mask
- Wide range of substrates possible

■ 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



■ 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 ARC registration feature
- Quick and easy setup supports digital printing business model

■ VARIABLE VARNISH THICKNESS

- Can be adapted to individual customer needs
- Maximum 3D effect: 100 µm
- Minimum thickness (on laminated surfaces): 15 µm
- Minimum thickness (directly on toner): 30 µm

Highlights

**DIGITAL SPOT
UV COATING ON**
on different page sizes
from A4 to 36,4 x 102 cm

**1 SINGLE
PASS**
printing

UP TO **100
MICRON**
thickness

Wide range of
substrates up to
450 GSM

Produced by MGI
EXCLUSIVELY
for Konica Minolta

■ 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

■ VARIABLE DATA OPTION

- Personalise & Serialise
- Barcode reader
- Without manual intervention

■ AUTOMATED REGISTRATION CAMERA

- 2 on-board cameras
- For on-the-fly image skew detection
- For on-the-fly coating registration from sheet to sheet

■ HIGH PRODUCTIVITY WITH SINGLE PASS PRINTING

- Up to 2,298 A3 sheets/hour with varnish thickness of 15 µm (2D/flat mode)
- 1,624 A3 sheets/hour with varnish thickness of 30 µm (3D mode)
- 812 A3 sheets/hour with varnish thickness of 60 µm (3D mode)
- Up to 513 A3 sheets/hour with varnish thickness of 100µm (3D mode)



■ 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

■ 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.

JETVARNISH 3DS WITH iFOIL S SOLUTION

Perform various finishing jobs
without manual intervention



Open the doors to digital embossing and hot foil stamping with your JETVARNISH 3DS and iFOIL S solution. Through a revolutionary digital process, iFOIL S eliminates the need for films and dies, allowing you to produce hot foil stamping and embossing jobs from one to thousands of sheets with high profitability and ease of use. From magazine covers, books, brochures, labels to invitations and packaging, customers are able to achieve spectacular and unique effects within a 100% digital process:

- embossing without a reverse impression on the back page
- multiple colored foils applied in one pass (up to 2 colors)
- Foil on foil and spot UV on foil

Exploiting both visual and tactile excitement that the JETVARNISH 3DS and iFOIL S brings, not only will you be able to finally bring Hot Foil Stamping in house, with virtually no set up and high speeds, you will also have the capability to offer a new personalisation finishing. Easy to use, iFOIL S works in-line with the JETVARNISH 3DS digital spot UV coater. A software suite allows you to easily modify layouts, with sizes ranging from A4 format to 36.4 x 102 cm and on paper substrates ranging from 135 to 450 microns. It is possible to make hot stamping with iFOIL S from printing done on both offset and digital presses.



iFOIL S Specification

PRODUCTION SPEED

Machine Velocity:

4 to 30 meters/minute (in Bypass mode)
12 to 20 meters/minute (foil production)

FORMAT

Substrate size:

Min: 21.0x29.7 cm / 8x11.8"
Max: 36.4x102.0 cm / 14.33x40.15"

SUBSTRATE THICKNESS

Substrate thickness:

Min: 150 µm (135gsm, not less than 150 microns)
Max: 450 µm (450gsm, not thicker than 450 microns)

HOT FOIL STAMPING

Foil area:

Min: 10 x 5 cm (10cm minimum width)
Max: 32 x 102 cm

EMBOSSING

Embossing thickness:

Min: 30 µm
Max : 100 µm with the standard JETVARNISH 3DS.
200 µm with twin printhead option.

ELECTRICAL REQUIREMENTS

iFOIL S electrical system:

7.5 kW - 32 A at 220-240 V – 50/60 Hz
2 Plug CEE/IP44 32 A (1P + N + E)

COMPATIBILITY

Online module that connects to JETVARNISH 3DS

DIMENSIONS & WEIGHT

Weight of the iFOIL S:

Approx. 850 kg
Dimensions L x W x H (cover open):
Approx. 2085 (without stacker option)
x 1243 x 1795 mm

FILMS

Foil specification: - Most of the foil design to foil on PVC or PP.

- Foil core: 1 inch (ca. 76 mm) / optional 3 inches.
- External diameter: Max. 30 cm (foil length around 2000 m depending from foil thickness)
- Foil width: 320 mm
- Max. 2 foil rolls synchronously (min. width 100mm)

ROLLS

Roll size: 30 cm in maximum diameter and approximately 2,000 meters of film.

- Minimum width of 10 cm.
- Maximum width of 32 cm.
- Up to 2 film rolls simultaneously
- 2 cores supported: 1 and 3 inches

SUBSTRATES

Foil finishing on most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials.

PRODUCT SPECIFICATIONS

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	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
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: 15 µm – 100 µm for 3D raised effects and tactile finish. On toner and coated paper: 30 µm – 100 µm for 3D raised effects and a tactile finish	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)
Production speed	In 2D/flat mode: Up to 2,298 A3 sheets per hour In 3D/raised mode: Up to 1,624 A3 sheets per hour	Operator panel	Integrated user-friendly LCD touch-screen
Registration	Fully motorised and automatic left side lay guide. Automated registration featuring MGI ARC system with optical detection of printed crop marks. Overall registration of ± 200µm	Options	Twin option (available soon): 2 nd print engine to increase 3D print speed and coating thickness, up to 200µm variable data option. Complete system including RIP, barcode reader and MGI software to automatise the association between a pre-printed barcode and its specific spot coating file
Formats	Min. 21 x 30 cm / 8 x 11.8" Max. 36.4 x 102 cm / 14.33 x 40.15" Max. Printable Width 35.5 cm	Dimensions (L x W x H)	4.26 x 1.14 x 1.8 meter 1 metre clearance required on all 4 sides
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 24 mil before printing & lamination Motorized height-adjustment print heads	Weight	± 1,100 kg
Substrates	Printing on most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials. Spot 3DS coat directly onto most digital prints with no lamination or coating required.	Electrical requirements	7.5 kW (32 A) at 220–240 Volts; 2 plug CEE/IP44, 32A (1P+N+E)
UV coatings and capacity	3D varnish delivered with a 10-litre tank capacity	Operating	Temperature: 18 to 30°C Environment Relative humidity: between 30 and 50% (no condensation)
High capacity Automatic feeder	Feeder able to handle a paper pile up to 30 cm 3,000 sheets at 135 gsm	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.
High pile output stacker	Stacker able to handle a paper pile up to 30 cm 3,000 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		

- The default sheet format is A3, unless otherwise stated
- Speed will vary according to printing parameter
- Confirm substrate/toner compatibility with KM

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Konica Minolta Business Solutions Asia

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