



KONICA MINOLTA

TECHNOLOGY

## JETVARNISH 3DS | iFOILs

DIGITAL SPOT UV COATING, EMBOSSING AND HOT FOIL STAMPING



**MGI**  
Digital Technology

# THE MGI JETVARNISH 3DS AND iFOIL S. **MORE THAN A GAME CHANGER. IT'S A GROWTH ENGINE FOR YOUR BUSINESS.**

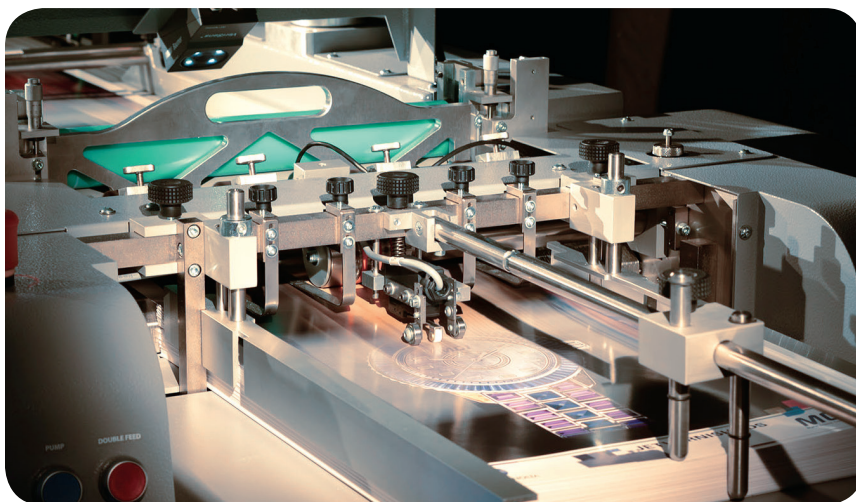
**Inline spot UV coater. Hot foil stamping.  
And never-before-seen finishes for creative impact.**

Adding the MGI JETvarnish 3DS and iFOIL S to your production floor can help your business attract new clients — and grow current business — with cost-effective, creative capabilities beyond the reach of traditional production techniques. Clients today require more impact from their print communications. This printing press does just that, giving you a number of creative offerings that can boost your revenue and increase profit margins. From spot-varnish and embossing to never-before-seen variable hot foil stamping, the MGI JETvarnish 3DS and iFOIL S leverages the power of digital production — offering your customers greater impact at a lower cost. And positions your business for growth.



## **AT A GLANCE** **MGI JETvarnish 3DS and iFOIL S**

- Create digitally-made embossed foil without the need for expensive dies
- Artificial Intelligence SmartScanner (AIS) creates automatic varnish and hot foil registration
- Never-before-seen variable data foil unique to the market
- UV spot, 3D emboss and hot foil in one pass
- Exclusive capability to foil and emboss on most matte or glossy laminated surfaces
- Software Suite for streamlining production
- Optional T2 print engine for secondary row of printheads



### DIGITAL PERFORMANCE

Along with all the benefits of digital technology, you can handle paper sizes from 8.5" x 11" to 14.33" x 40.15" — making the JETvarnish 3DS an ideal partner for both digital and offset presses. The extreme gloss of the coating, combined with the revolutionary Artificial Intelligence SmartScanner (AIS) system for accurate registration control, will enhance your clients' digital prints. And you can always run jobs that include variable data — giving you a significant competitive advantage.

### INSTANT PRODUCTIVITY

The JETvarnish 3DS lets you start fast, finish strong — no prep is required beyond creating a graphic description file for surfaces to be coated (5th layer mask). Once your file is ready, the first coated sheet is output within 5 minutes. Any sheet coming out of the JETvarnish 3DS is immediately dry and ready for handling — and your customers can OK a print proof that will be fully identical throughout production.

### COMMUNICATIONS IMPACT

Make your clients' products and services stand out from the crowd with striking 3D-raised effects. Adding embossing and spot coating to printed brochures, display materials, packaging and other communication materials gives your clients attention-grabbing impact that online information and conventional printing cannot deliver.

### ARTIFICIAL INTELLIGENCE

#### SMARTSCANNER (AIS)

The patented AIS system uses artificial intelligence to create an automatic varnish and hot foil registration for inkjet heads over the pre-printed sheet. It's fully compatible with Variable Data Finishing (VDF) jobs. Using print image and inkjet synchronization algorithms, the AIS system runs at more than 5 billion 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 lamination process. For example:

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

### UV INKJET TECHNOLOGY

For precision from first to final page, Konica Minolta's Drop-on-Demand technology uses ultra-precise piezoelectric printheads to produce extremely thin lines (0.5 mm) as well as wide solid areas. You will also have production rates of up to 2,077 A3 sheets per hour in 21 micron coating thickness.

### ENVIRONMENTALLY FRIENDLY

With less waste, less power and less noise, the JETvarnish 3DS can lower your costs and reduce your environmental impact. With no need for a plate or screen, there is no waste of materials. Closed-loop operation optimizes coverage and eliminates waste. Neither volatile solvents (VOCs) nor ozone are released. Power consumption is optimized to save energy — and noise level is below US standards, giving you a quieter workplace.

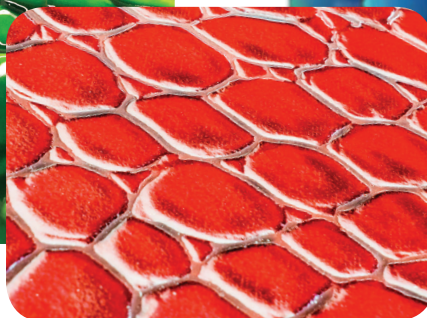
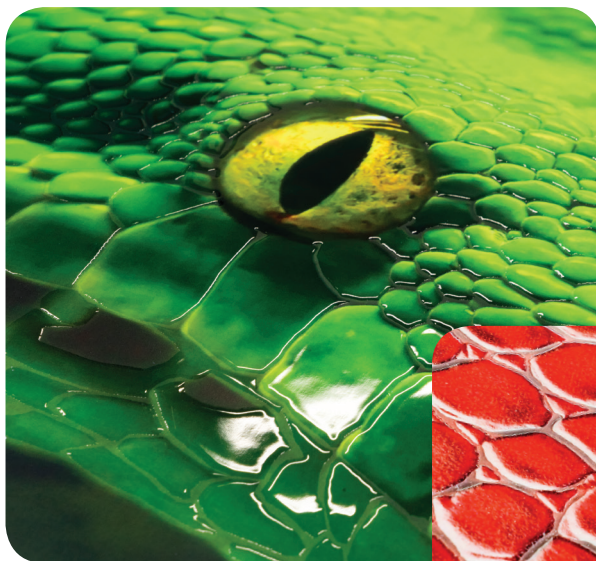




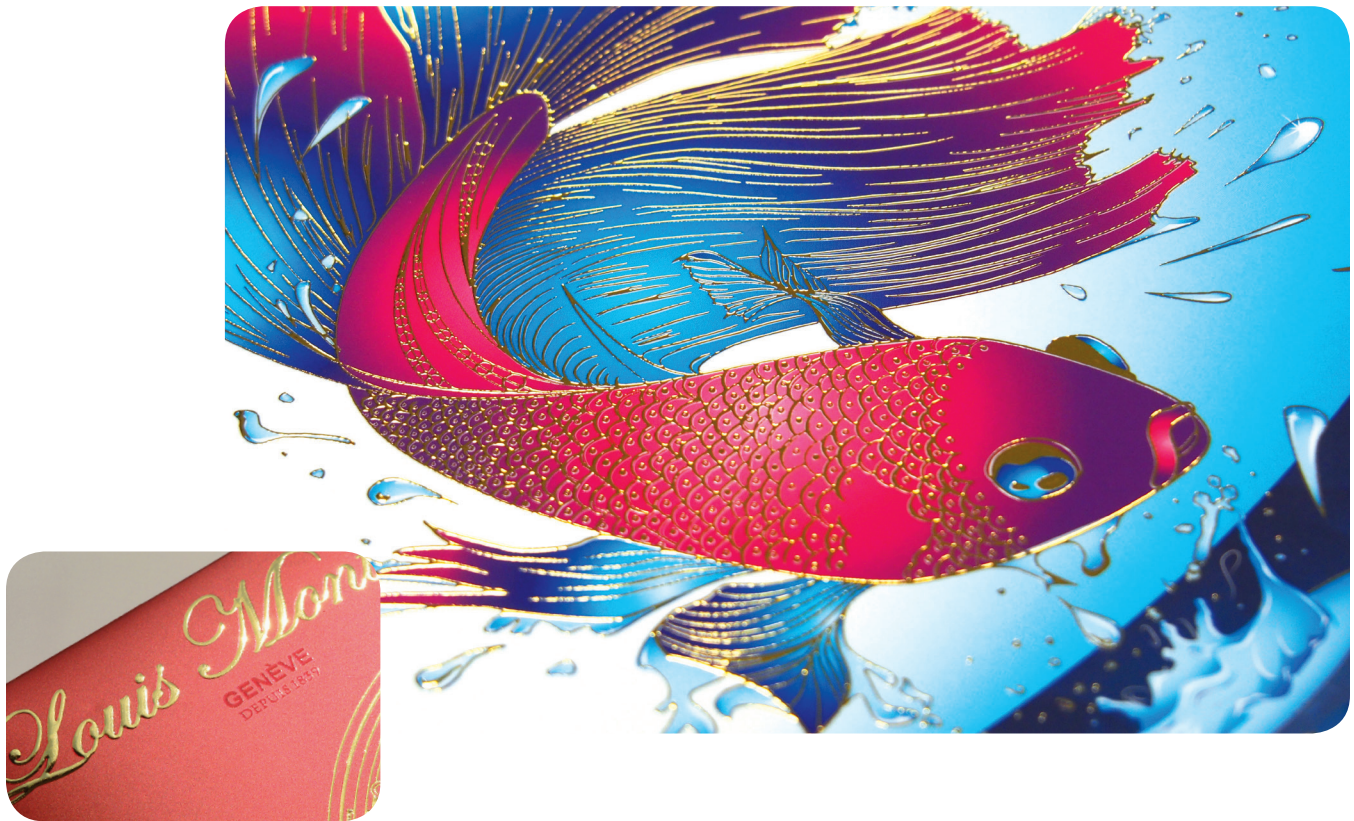
# A WIDE ARRAY OF VALUE-ADDED BENEFITS. **DIGITAL SPEED.** **SIMPLICITY. LOWER COST.**

**An amazing choice of colors and effects.**  
**And unlimited possibilities for your business.**

Apply an ultra-precise spot coating on short or long press runs, vary the thickness of your coating for attractive 3D tactile effects, perform hot foil stamping in up to two simultaneous colors; and offer a new, never-before-seen finish: the personalization of embossed hot foil stamping. You can even add a secondary row of printheads to increase your speed and keep you running smoothly for on-time delivery.







#### **EMBOSSSED FOIL WITH DIGITAL DATA**

For traditional printers, foil has been out of reach — requiring years of experience, high cost or complex setup. The iFOIL S in-line module for the JETvarnish 3DS can break through these limitations, allowing you to add foil to packaging, book jackets, promotional materials, high-end invitations and greeting cards, security materials and more — all in a seamless, 100% digital process that applies varnish, heat and pressure so foil will stick only on spot varnish areas. Result: a brilliant gloss with a high level of adhesion.

#### **HIGH-SPEED OUTPUT, VERSATILE SUBSTRATES**

With speeds up to 2,298 A3 sheets per hour, embossed foil will not slow down your productivity. You can apply up to two simultaneous foil colors for rich, creative effects using substrates from 135 gsm to 450 gsm — on most matte or glossy laminated surfaces, with or without aqueous coating, including layered paper, plastic, PVC and other coated materials. You can also handle digital prints from Konica Minolta's AccurioPress C3080 and C6100 series digital presses with no lamination or coating required. The iFOIL S can load up to two foil rolls, from 3.9" to 14.2" in width and over 1,300' in length — even add a 3" core system option for larger production foil runs.

#### **VARIABLE DATA FOIL — FOR THE FIRST TIME IN HISTORY**

Picture the pulling power of addressee names in gold! In addition to making short run embossed foil a practical and economical production choice, the JETvarnish 3DS with iFOIL S option lets you apply foil to variable data print runs — creating attention-grabbing effects with immediate appeal for a higher rate of return. No previous production process has combined the richness of foil with the targeted focus of variable data promotions and presentations.

#### **BARCODE READING FOR AUTOMATED PRODUCTION**

You can add a barcode reaction option to your JETvarnish 3DS system, giving you high-speed throughput that automatically reads printed barcodes during production. The barcode will call up the correct image to varnish, making it ideal for variable data printing in 2D varnish, 3D varnish and variable data printing with embossed foiling — a flexible system for any production need.

#### **T2 — A NEW PRINT ENGINE FOR GREATER EFFICIENCY**

The JETvarnish 3DS allows you to add the T2 option — a new print engine with a secondary row of printheads. Field upgradable for simple installation, the T2 can improve 3D linear output speed, increase the thickness of 3D effects and provide production backup that keeps your system in operation with long-run reliability.



# POWERFUL SOFTWARE. SIMPLE TOUCHSCREEN CONTROL. JOBS ARE EASIER THAN EVER.

The JETvarnish 3DS and iFOIL S comes with a powerful software package that includes three main modules: 3DS HubManager, Spot Varnish Editor and Production Cost Analyzer. They're all controlled from a large graphic touchscreen that makes everything simple, even for operators without special training.

## 3DS HUBMANAGER

With simple touchscreen control, the 3DS HubManager lets you monitor your ongoing jobs, manage the queue, create job tickets, launch reprints and adjust the AIS system. You can easily export detailed production data for internal cost analysis or quick integration to your MIS system.

## SPOT VARNISH EDITOR

Why waste time running back and forth between production and prepress? User-friendly Spot Varnish Editor software lets your JETvarnish 3DS operator perform final touch-up of graphic files (5th layer mask) — speeding response time and increasing throughput to help turn jobs around more quickly.

## PRODUCTION COST ANALYZER

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. Ensuring accurate quotes, you can closely control profit margins.



## Streamline production. Boost productivity. Impact sales.

### RUGGED DESIGN

The JETvarnish 3DS is a true professional — built to stand up to the most rigorous production applications, maintaining the high-quality output your customers demand — with reliability and cost-efficiency that makes your bottom line look better than ever.

### NO PLATES OR SCREENS

With a 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% (G.U.) — beyond the reach of traditional analog technology.

### INKJET TECHNOLOGY

Precise piezo (Drop-on-Demand) printheads enable the JETvarnish 3DS to create lines as small as 0.5 mm or as wide as a full 14" sheet — and you will be able to switch from one job to another with no equipment cleaning required.

### HIGH-CAPACITY TANK

For high-volume production demands, the JETvarnish 3DS features a high-capacity tank containing ten liters of coating — which means less reloading time to interrupt your output.

### FLAT AND 3D EFFECTS

There is 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

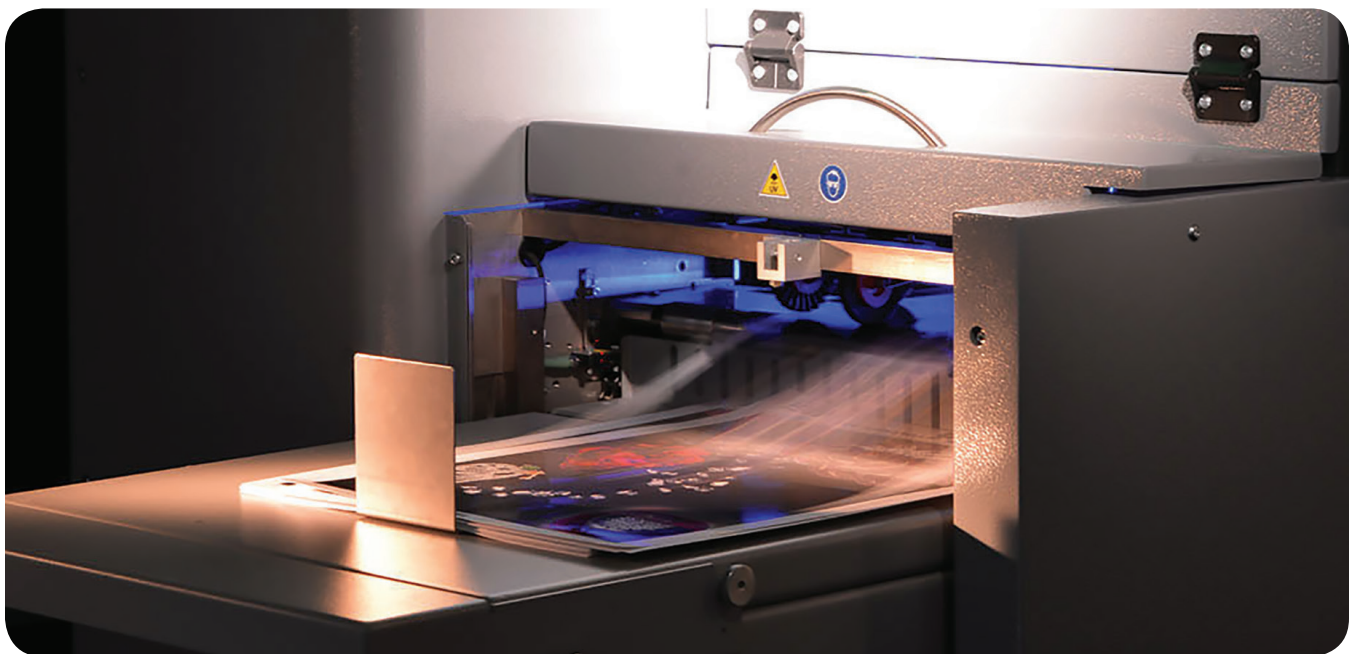
With throughput speeds up to 2,077 A3 sheets per hour, spot varnish application will not compromise your productivity. From short to long runs, JETvarnish 3DS gets the job done better and faster.

### GREATER VERSATILITY

Ideal for spot coating needs including both large flat areas and ultra-fine details, JETvarnish 3DS is designed to handle the creative requirements of virtually any print job.

### EXTENDED FORMATS

For larger originals like book covers with multiple flaps, the JETvarnish 3DS can cover sheets up to 14.3" wide and 40.15" long — another unique feature to increase your production opportunities.





# MGI JETvarnish 3DS and iFOIL S

DIGITAL SPOT UV COATING, EMBOSsing AND HOT FOIL STAMPING

## JETVARNISH 3DS

<b>Print technology</b>	Patented MGI proprietary inkjet technology. Drop-on-Demand (DoD) technology developed and manufactured by Konica Minolta. Piezoelectric printheads. Flexible and scalable printing system.
<b>Coating thickness</b>	21–116 microns (µm) for a wide range of visual and tactile effects (smooth, textured, embossed). Coating thickness configurable through the coating file (5th layer mask) created in DTP and by the operator at the time of production. Thickness may vary depending on the four-color printing technology used, the surface treatment applied to the sheet and the type of paper used, up to 232 µm with T2 option.
<b>In 2D/Flat mode</b>	Up to 2,077 A3 sheets per hour (21 µm)
<b>In 3D/Raised mode</b>	Up to 1,468 A3 sheets per hour (43 µm)
<b>Registration</b>	Feedboard with left-hand adjustment allows for precision feeding of all types of jobs where the sheet's origin (0,0) is on the left side. MGI's automatic registration feature, AIS SmartScanner coupled with Artificial Intelligence for full real-time automated sheet-to-sheet registration. No crop marks required. ± 200 µm tolerance.
<b>Formats</b>	<b>Min.:</b> 8" x 11.8" (21 x 29.7 cm) <b>Max.:</b> 14.33" x 40.15" (36.4 x 102 cm)
<b>Max. coating width</b>	Up to 14"
<b>Substrate thickness</b>	<b>Min.:</b> 135 gsm or 150 µm before printing and lamination <b>Max.:</b> 450 gsm or 450 µm before printing and lamination Motorized adjustment of the printheads based on the substrate. Compatible with most matte or gloss laminated surfaces, with or without acrylic varnish, coated paper, plastic, PVC and other closed surfaces. Direct coating onto output from most digital presses without lamination or surface treatment.
<b>UV coating</b>	10 L high-capacity tank
<b>Paper feeder</b>	High-capacity feeder can accommodate a stack of paper of 30 cm or 2,500 sheets (135 gsm)
<b>Paper feed mechanism</b>	Flat paper path, air-assisted start, variable vacuum belt feeder
<b>In-line UV curing</b>	Dual-sheet detection cell. Drying "on-the-fly" via built-in UV LED drying system. No additional drying time required. Coated sheets can be handled immediately upon exit.
<b>Front end system</b>	Job queue management on a dedicated PC (CPU + touchscreen + keyboard + mouse) 10/100/1000BASE-T (RJ 45) ethernet connectivity
<b>Application software</b>	Comprehensive job queue management. Printing cost estimate calculator (quantity of varnish required). Picture touch-up software for final changes prior to production.
<b>Maintenance and remote technical support</b>	Daily maintenance in less than 10 minutes. Most procedures are automated. Cold starting in less than 10 minutes. Automated cleaning system. Remote support and troubleshooting using included video/web camera. High-speed internet connection required.
<b>Operator control</b>	Driver/operator LCD touchscreen
<b>Dimensions and weight</b>	Dimensions: 13.98' (17.52') x 3.74' x 5.91' (L x W x H) 40" of clearance on each side of the machine is required for access and opening of doors Weight: ± 2,42.5 lb (1,100 kg)
<b>Electrical requirements</b>	7.5 kW (32 A) at 220/240 volts, 2 EEC/IP44 32A outlets (1L + G + N)
<b>Operating environment</b>	Temperature: 65–85°F Humidity: between 30–50% (non-condensing)

## IFOIL S

<b>Production speeds</b>	Up to 2,298 A3 sheet size pages per hour (or 20 meters per minute) <sup>1</sup>
<b>Formats</b>	<b>Min.:</b> 8" x 11.8" (21 x 29.7 cm) <b>Max.:</b> 14.33" x 40.15" (36.4 x 102 cm)
<b>Substrate thickness</b>	<b>Min.:</b> 135 gsm and not less than 150 µm/6 mil before printing and lamination <b>Max.:</b> 450 gsm and not less than 450 µm/18 mil before printing and lamination
<b>Substrates</b>	<b>Min.:</b> 135 gsm and not less than 150 µm/6 mil before printing and lamination <b>Max.:</b> 450 gsm and not less than 450 µm/18 mil before printing and lamination
<b>Foil rolls</b>	Standard 1" internal core. Min./Max. widths: 3.9"/14.2". Length: 1,300' (average). Up to 2 rolls loaded simultaneously on the same holder. Optional 3" internal core.
<b>Embossing</b>	From 21 up to 116 µm in thickness. From 21 to 232 <sup>2</sup> µm in thickness
<b>Compatibility</b>	Online module that connects to all JETvarnish 3DS equipment
<b>Dimensions and weight</b>	Dimensions: 6.9' x 4.1' x 5.9' (L x W x H) Weight: 1,873 lb (850 kg)
<b>Electrical requirements</b>	7.5 kW (32 A) at 220/240 volts, 50/60 Hz, 2 plugs EEC/IP44 32A outlets (1L + G + N)
<b>Options</b>	High-capacity stacker for paper stacking (up to 24" paper height), 3" core foil holder

<sup>1</sup> Speed will vary according to printing parameter used.

<sup>2</sup> JETvarnish 3DS T2 option required.

For complete information on Konica Minolta products and solutions, please visit: [CountOnKonicaMinolta.com](http://CountOnKonicaMinolta.com)

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