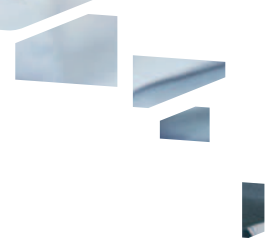




KONICA MINOLTA

**I WANT TO  
INNOVATE &  
EXPAND MY  
BUSINESS  
WITH DIGITAL  
PRINTING**



**PRODUCTION  
PRINTING**

# THE FUTURE LOOKS BRIGHT WITH DIGITAL PRINTING

**Konica Minolta successfully entered the production printing market in 2004 and has become one of the leading industry vendors. Today, Konica Minolta is recognised for creating inspiring long-term partnerships with its customers.**

As a service provider for the production printing industry, Konica Minolta offers you integrated workflows and applications as well as professional and sophisticated hardware products to enable your business. Konica Minolta's business-building concept, Digital1234, encourages print businesses to find and focus on new opportunities to save money, improve productivity, add new services, and increase profits. By adopting Konica Minolta's business-enabling opportunities, you can drive your business in numerous ways:



- Benefit from print automation enablers – include suitable print automation and book publishing applications as well as professional inline finishing equipment.
- Take advantage of Konica Minolta's hardware enablers, including digital technology, wide-format printing, and overall maximised productivity.
- Make use of professional VDP 1:1 communication with variable data and transpromotional printing solutions as well as cross media communication.
- Look at web-to-print enablers and consider diversification with web printing and photo merchandising.
- Do not bypass output control enablers by integrating viable colour management, make-ready and output management applications.

**Konica Minolta's aim is to help you achieve a good return on investment. Konica Minolta provides support and business tools to help you explore new markets by focusing on print and Web technologies that will enable your business today.**

1234

**DIGITAL1111**  
enabling your business





KONICA MINOLTA

# MGI JETVARNISH 3DS & iFOIL S DATASHEET

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

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 glamorous effect.



**MGI**  
Digital Technology

# YOUR ADVANTAGES WITH THE JETVARNISH 3DS & iFOIL S

## 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

## 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

## 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



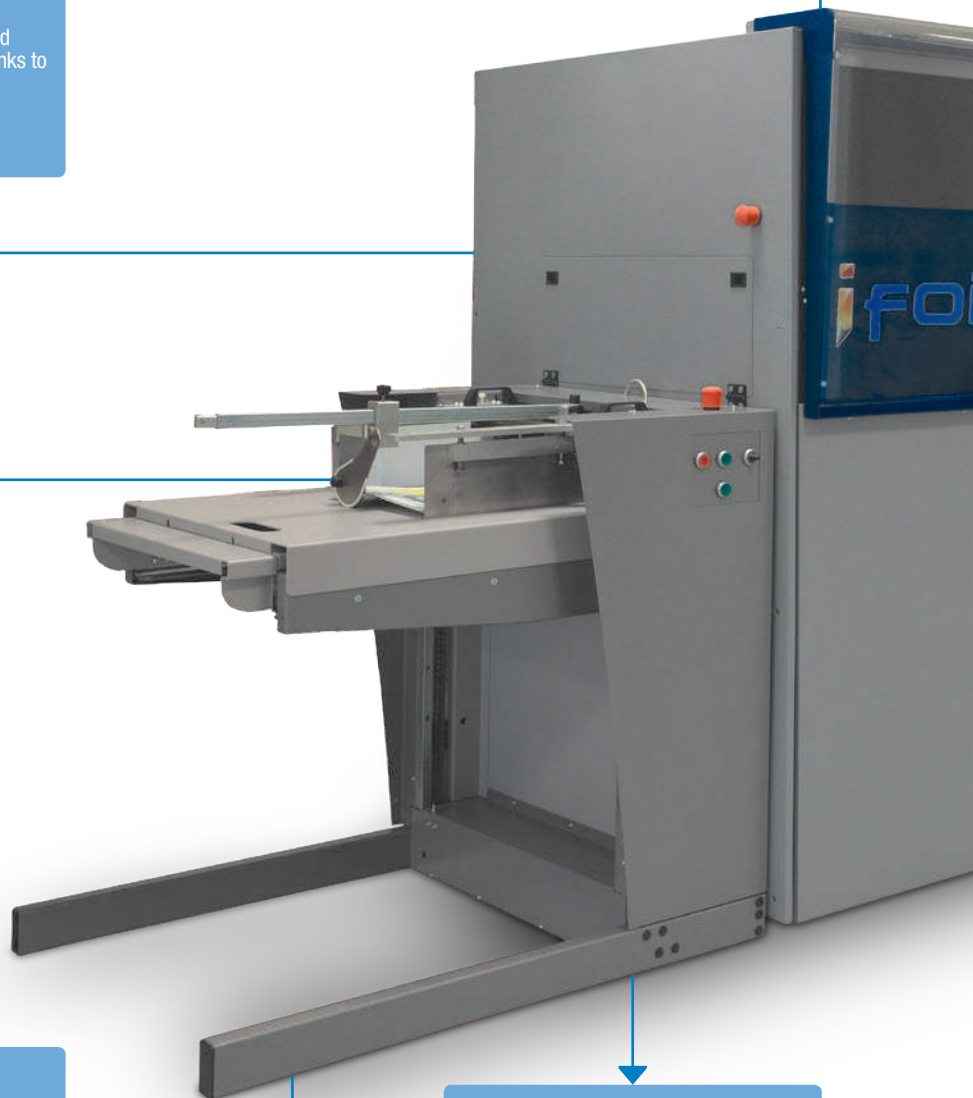
## VARNISH DIGITAL AND OFFSET PRINTS

- 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

\* with the Twin Bar Option



**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



**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

**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



**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)

**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



## Technical specifications

### PRODUCT SPECIFICATIONS - JETVARNISH 3DS

<b>Printing technology</b>	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
<b>Coating thicknesses</b>	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
<b>Production speed</b>	<b>In 2D/flat mode:</b> Up to 2,077 A3 sheets per hour (with 21 µm) <b>In 3D/raised mode:</b> Up to 1,468 A3 sheets per hour (with 43 µm) Up to 547 A3 sheets per hour (with 116 micron)
<b>Registration</b>	SmartScanner coupled with Artificial Intelligence (AIS) for fully real-time automated sheet-to-sheet registration process. No crop mark required.
<b>Formats</b>	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
<b>Substrate thickness</b>	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
<b>Substrates**</b>	Printing on most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials.
<b>Varnish on toner</b>	Spot 3DS coat directly onto most digital prints with no lamination or coating required.
<b>UV coatings and capacity</b>	3D varnish delivered with a 10-litre tank capacity
<b>High capacity Automatic feeder</b>	Feeder able to handle a paper pile up to 30 cm 2,500 sheets at 135 gsm
<b>High pile output stacker</b>	Stacker able to handle a paper pile up to 30 cm 2,500 sheets at 135 gsm
<b>Paper path</b>	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

### PRODUCT SPECIFICATIONS - iFOIL S

<b>Production speed</b>	Up to 2,298 A3 sheet size per hour (or 20 meters/min)
<b>Formats</b>	Min: 21 x 29.7 cm Max: 36.4 x 102 cm
<b>Hot foil stamping area</b>	32 x 102 cm
<b>Substrate thickness</b>	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
<b>Substrates</b>	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

<b>Front end system</b>	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
<b>Maintenance &amp; remote technical support</b>	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)
<b>Operator panel Options</b>	Integrated user-friendly LCD touch-screen <b>Twin bar option:</b> 2 <sup>nd</sup> print engine to increase 3D print speed and coating thickness, up to 232 µm variable data option. <b>Variable data option:</b> Complete system including RIP, barcode reader and MGI software to automatize the association between a pre-printed barcode and its specific spot coating file
<b>Dimensions (L x W x H)</b>	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
<b>Weight</b>	± 1,100 kg
<b>Electrical requirements</b>	7.5 kW (32 A) at 220–240 V; 2 plug CEE/IP44 32A (1P+N+E)
<b>Operating</b>	Temperature: 18 to 30°C Environment Relative humidity: between 35 – 55% (no condensation)
<b>Respecting the environment</b>	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 compatibility 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.

<b>Foil rolls</b>	Standard internal core: 1 inch - Min./Max. widths: 10/36 cm 400 meter length (average) Up to 2 rolls loaded simultaneously on the same holder 3" internal core is optional
<b>Embossing</b>	From 21 µm to 116 µm thickness From 21 µm to 232 µm thickness (Twin Bar optional)
<b>Compatibility</b>	Online module that connects to all JETVARNISH 3DS
<b>Dimensions (L x W x H)</b>	2.09 x 1.24 x 1.80 meter
<b>Weight</b>	± 850 kg
<b>Electrical requirements</b>	7.5 kW (32 A) at 220–240 V – 50/60 Hz 2 plugs CEE/IP44 32A (1P+N+E)
<b>Options</b>	High capacity stacker for paper stacking up to 60 cm paper height 3" core inch foil holder

– All specifications refer to A4-size paper of 135 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 is based on specific operating conditions such as page coverage for a particular page size (5% 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.

– Konica Minolta does not warrant that any prices or specifications mentioned will be error-free.

– All brand and product names may be registered trademarks or trademarks of their respective holders and are hereby acknowledged.

# ENABLE YOUR BUSINESS WITH PRINT AUTOMATION

## Print Automation

**“Gain time for more important things.”**

With suitable print automation software, you optimise internal production routines, achieve greater staff efficiency, and thus enhance your production capacity. This ultimately enables you to produce more with less, without compromising on your high quality standards. The easy integration of digital devices into existing offset workflows through the print controller provides you with a new kind of print automation.

## Inline Finishing

**“Put tailor-made print products at your fingertips.”**

As a print provider, you are always expected to do more with less! Inline finishing provides a great opportunity to reduce lead time and costs without compromising on quality and service. Printers who do not invest will pay the price by falling behind those that have invested in inline finishing, because it provides such a significant operational advantage. Never forget: time is money!

## Book Publishing

**“Open your eyes to new business.”**

The printing landscape has changed, and flexible print providers can benefit from this development by producing a range of bound documents including books, calendars, magazines, and photo albums. InfoTrends expects the book-printing market to grow by 16.7% over their seven-year forecast period, which means that the print volume from book publishing will come to almost 54 billion pages by 2016. In other words, on-demand book publishing is a new business field that is well worth looking into!\* With Konica Minolta you have an even stronger argument due to automated production.

\* Source: InfoTrends

## Advantages

- Enhance production flexibility, efficiency and competitiveness
- Benefit from less human involvement through automated job handling
- Take full advantage of the benefits of digital printing
- Meet the continually increasing demand for short-run printing
- Enjoy ease of use, features, reliability and seamless integration

