I WANT TO INNOVATE & EXPAND MY BUSINESS WITH DIGITAL PRINTING

KONICA MINOLTA

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.

DIGITAL**1234**
enabling your business

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 glamurous effect.

Giving Shape to Ideas

JETVARNISH 3DS + iFOILs

YOUR ADVANTAGES WITH
THE JETVARNISH 3DS & iFOIL S

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

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 5th colour mask
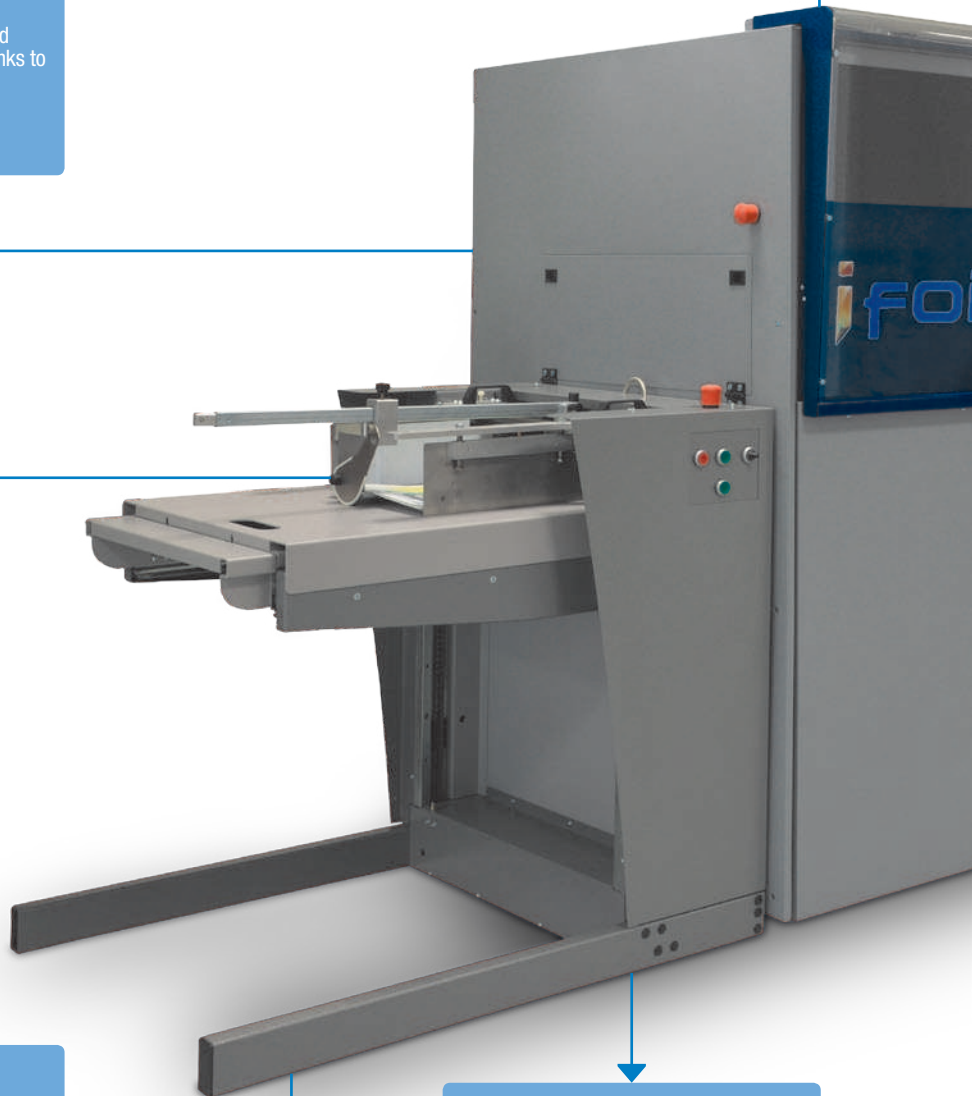– Wide range of substrates possible

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

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 print engine to increase 3D print speed and coating thickness, up to 232 µm variable data option. **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
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.

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 2 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

– 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