



KONICA MINOLTA

MGI JETVARNISH 3DS DATASHEET

- ✓ Digital spot UV coating on different page sizes from A4 to 36,4 x 104 cm
- ✓ Up to 2,298 A3 pages per hour

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. In combination with the Konica Minolta print heads, the new varnish formula lets you create a 3D effect on laminated surfaces or directly on toner. The variable data option gives you full personalisation capabilities for maximum one-to-one marketing impact.



MGI
Digital Graphic Technology

JETVARNISH 3DS

YOUR ADVANTAGES WITH THE JETVARNISH 3DS

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

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

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 with or without acrylic lamination
- Accurate sheet-to-sheet registration with ARC registration feature
- Quick and easy setup supports digital printing business model

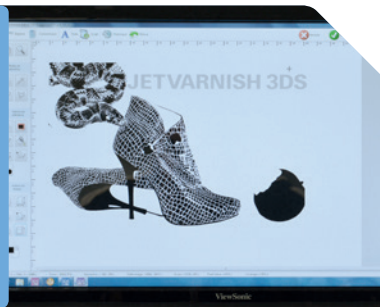
VARIABLE VARNISH THICKNESS

- 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



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



AUTOMATED REGISTRATION CAMERA

- 2 on-board cameras
- For on-the-fly coating registration from sheet to sheet
- For on-the-fly paper skew adjustment

VARIABLE DATA OPTION

- Barcode reader option available
- For Variable Data Printing
- For spot UV coating without manual intervention

MEDIA PROCESSING

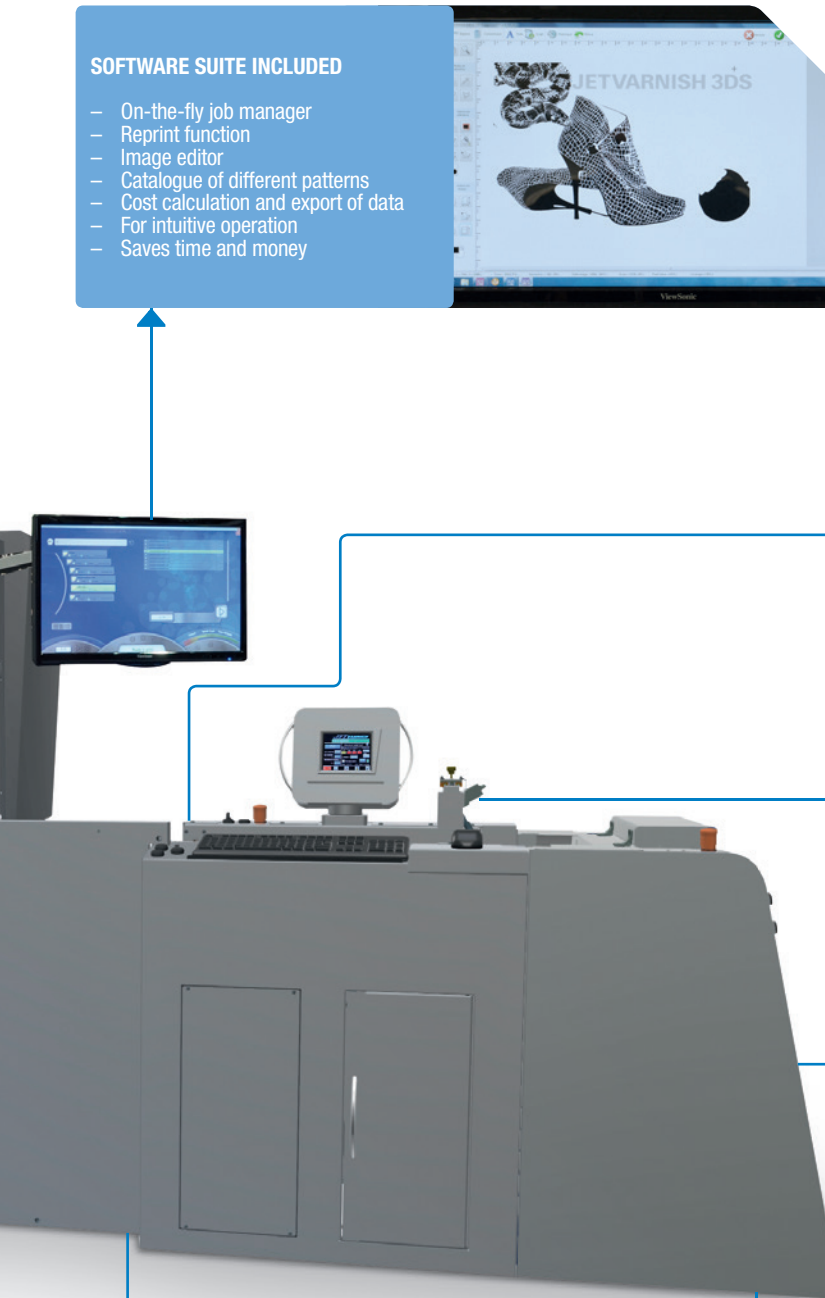
- Wide range of paper weights of up to 450 gsm
- Printing on most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other closed surface materials.
- Spot 3D coating directly onto most digital prints with no lamination or coating required.

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 100 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

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: 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
Production speed	In 2D/flat mode: Up to 2,298 A3 sheets per hour (with 15 µm) In 3D/raised mode: Up to 1,624 A3 sheets per hour (with 30 µm)
Registration	Fully motorized and automatic left side lay guide. Automated registration featuring MGI ARC system with optical detection of printed crop marks. Overall registration of ± 200 µm
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
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
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.
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 3,000 sheets at 135 gsm
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

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 Options	Integrated user-friendly LCD touch-screen Twin option (available soon): 2 nd print engine to increase 3D print speed and coating thickness, up to 200 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)	4.25 (5.50) x 1.06 x 1.80 metre 1 metre clearance required on all 4 sides
Weight	± 1,400 kg
Electrical requirements	7.5 kW (32 A) at 220–240 Volts; 2 plug CEE/IP44 32A (1P+N+E)
Operating	Temperature: 18 to 30°C Environment Relative humidity: between 30 and 50% (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 compatibility with KM



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