MGI Jet Varnish 3DS

Spot UV Coating System

MGI
Digital Graphic Technology

Add Instant WOW Appeal

The Unique Jetvarnish 3DS system gives any printed output the WOW factor. Firstly, the Spot Gloss coating attracts attention with colours POPPING from the page, a closer look draws you to the raised coating and finally the need to feel the highlight textured coating layered on the sheet.

The Jetvarnish 3DS system produces Premium Printed Products that improves brand appeal, while at the same time allowing an upsell of regular printed sheets. This combination then leads to premium margins being obtainable for prints produced.

Marketing potential is expanded with this tangible finish adding extra visibility to potential clients and customers.

Konica Minolta Inkjet Technology

For reliability, quality and precision the MGI 3DS system incorporates the Konica Minolta exclusive Piezo print heads, enabling lines as small as 0.5 mm or as wide as the printed sheet, all while controlling the level of coating applied up to a massive 100 microns thick.

Built for Production Output

With extended sheet formats ranging from A4 up to a large 36.4 x 102 cms in size, and production speeds of up to 4,800 sheets per hour in A4 sheet size.

With 3,000 sheet load capacity using an advanced Air Feed System with automatic double sheet detection, flat sheet paper path, in-line LED Instant Drying and matched with 3,000 sheet output capabilities. This system is built for the high demands of production printing environments.

There is the additional ability to print onto most substrates types and coatings, with a media stock weight range from 135 to 450 gsm.

Environmental Credentials

Varnish consumption is maximised by a closed loop system designed to prevent waste. Automated head cleaning is also designed to reduce impact on any wastage, including operators time.

With low noise levels, and minimum odour and emissions the JV-3DS system will add to your production output and margins with no negative effects on the environment.

Reliability with Precision

The Jetvarnish 3DS is equipped with ARC (Automated Registration Cameras) registration technology, two cameras combined with a tracking system designed to calibrate the coating registration from sheet to sheet. The ARC system ensures accurate spot UV coating, even on print jobs with inconsistent print registration, a traditional obstacle for producing spot UV coating jobs on some digital presses.
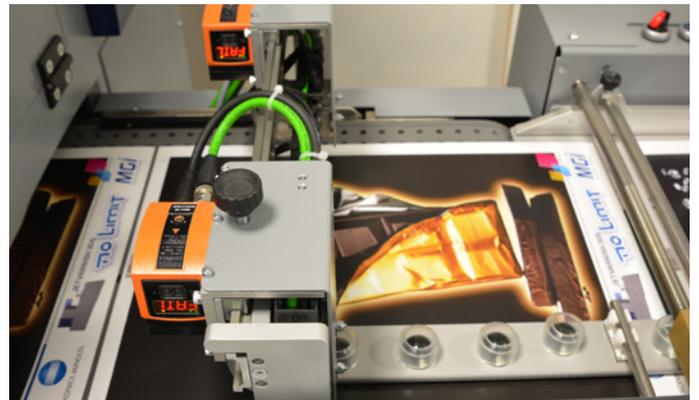
Production Tools

A highly developed suite of software tools are included, to streamline design and functionality with the JV-3DS System.

These software modules include the 3DS HubManager, Spot Varnish Editor and the Production Cost Analyser (PCA).

The **Production Cost Analyser** is designed to supply precise production costs based on the selected job's spot UV coating file, something that has until now never been possible with traditional spot coating technologies. This allows for quick and accurate job estimations.

To save time, the **Spot Varnish Editor** tool is designed for editing job files, allowing the 3DS operator an easy and simple process to handle all job file modifications on the system.

The **3DS HubManager**, allows the operator to manager the print job queue, create job tickets, recall print jobs and adjust the ARC camera system in one defined simply application tool. The power export function allows the export of detailed production data for internal cost analysis, or for integration into an MIS system, including operator's time.

With 3D coating applied

Konica Minolta and MGI Graphic Technology Strategic Alliance

A Global alliance aimed at accelerating innovation and the commercialisation of Next generation digital printing solutions that brings exceptional value to print.

Product Specifications

Printing Technology	MGI's exclusive inkjet engine technology
	Drop-on-Demand (DoD) technology
	Piezoelectric print heads, developed and manufactured by Konica Minolta
	Single pass printing Flexible & scalable printing architecture
Coating Thicknesses	Depends on your designed 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	Up to 4,800 A4 sheets per hour in flat mode (2D) Up to 1,500 A4 sheets per hour in 3D mode
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. 21x30 cm
	Max. 36.4x102 cm
	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 for 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 print Output with no lamination or coating required.
UV Coatings and Yields	New coating formula with a 10 litre tank capacity.
Media Capacity Automatic Feeder	30 cm high input, Max. 3,000 sheets at 135 gsm
High Pile Output Stacker	30 cm high output 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	Daily maintenance completed in less than 10 minutes
Remote Technical	Majority of procedures are automated
Support	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 option 2nd print engine to increase 3D print speed and coating thickness, up to 200 µm variable data option
	1D and 2D code bar reader to automatize variable data spot varnishing in conjunction with the 3DS HubManager
Dimensions	4.25 x 1.06 x 1.80 meters (L x W x H)
	1 meter clearance required on all 4 sides
System Weight	± 1,400 kg / ± 3,100 lbs
Electrical	7.5 kW (32 A) at 220–240 Volts
	2 plug CEE/IP44 32A (1P+N+E)
Requirements Operating	Temperature: 18 to 30°C Optimum
Environment	Relative humidity: between 30 and 50% (no condensation)
Environmental	Eliminates resource waste (wasted electricity, paper and varnish)
	No plates (offset) or screens (screen printing)
	No messy clean up 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
• Speed will vary according to printing parameter
• Confirm substrate/toner compatibility with KM

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