



Packaging

Cosmetic

Overwrapping

Shopping Bags

Book Covers

Luxury Packs

Labels

Gift Boxes





Technical Specifications

Printing Technology

MGI's exclusive inkjet engine technology
Drop-on-Demand (DoD) inkjet
Piezoelectric print heads in single pass printing
Flexible & scalable printing architecture

Coating Thicknesses

Depending on your file and the paper used, the coating thickness can vary, from 3 microns (μ) same as a traditional flat spot UV coating, up to $200\mu^1$ for 3D raised effects and a tactile finish

Production Speed

Up to 3,000² B2 sheet size per hour (flat spot UV coating or 2D)

Registration

Left & right side lay guides on either side of the sheet.
New feature of automated registration using 2 standard cameras with optical detection of printed crop marks. Overall registration of ± 200 microns

Formats

- **Min.**
21x30 cm / 8 x 11.8"
- **Max.**
52x105 cm / 20x42"

Printable Area

Up to 51.5x104.5 cm

Substrate Thickness

- **Min:** 135 gsm and not less than 150 microns/6 mil before printing & lamination
 - **Max:** 600 gsm and not more than 600 microns/24 mil before printing & lamination
- Motorized height-adjustment print heads

Substrates

Printing on most³ matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials.
Spot 3D coat directly onto most³ digital prints (ie. MGI Meteor) with no lamination or coating required.

UV Coatings and Yields

Several coating formulas available, one dedicated to 2D (no raised effects) and the other for 2D/3D usage. The JETvarnish 3D now comes standard with 2 coating tanks and 2 coating circuits allowing a quick changeover between coatings. The first tank has a high capacity volume⁴ (18 liters / 4.7 US gal.). The second one is a recyclable 6 liters / 1.59 US gallon bag. "On-the-fly" tank changeover possible during production without any interruption.
Capacity of ink circuit during operation - approximately 1 liter / 0.26 US gal.

High Capacity Automatic Feeder

High capacity feeder able to handle a paper pile up to 60cm / 23.6" high
Approximately 4,000 sheets at 135 Gsm

High Pile Output Stacker

High capacity stacker able to accommodate stacks up to 60cm / 23.6" high
Approximately 4,000 sheets at 135 Gsm

Paper Path

- 100% flat paper path
- Vacuum feed system
- Air feed system
- Automatic double sheet detection

In-line UV dryer

"On-the-fly" drying & curing via integrated UV lamps
Spot Coated sheets can be immediately finished or handled, no additional drying time required

New Front End System

New intuitive and user-friendly software suite.
Controlling by a new graphical interface and 27" touch screen.
Includes functions for both operators and technicians:
Cost calculator, image editor, managing queue and reprint, camera and print-heads settings, etc.
Dedicated controller for equipment settings and technical datas.
Ethernet connection 10/100/1 000 BT in RJ 45

Dry Air

An onsite dry air system is necessary for the new sheet stacker blower

Maintenance & Remote Technical Support

Daily maintenance completed in less than 10 minutes
Majority of procedures are automated
From cold start to production in less than 15 minutes
Remote troubleshooting & support via included video/web camera (high speed internet connection required)

Options

- Twin option - 2nd print engine to double 3D print speed and coating thickness, up to 200μ
- iFOIL option - a hot foil stamping module that connects inline with the JETvarnish 3D
- Bar Code Reader option - Variable Data Printing system using a camera and preprinted barcodes (Q4 2014)

Dimensions (L x W x H) & Weight

7.67 x 2.24 x 2.16 meter (with all doors opened)
1 meter / 3.3' clearance required on all 4 sides
 $\pm 2,150$ kg / $\pm 4,470$ lbs

Electrical Requirements

30 kW (32 A) at 400 Volts - 1 plug CEE/IP44 63A (3P+N+E)
3.7 kW (16 A) at 220 Volts - 1 plug CEE/7 16A (2P+E)
2 kW (16 A) at 220 Volts - 2 plugs CEE/7 16A (2P+E)

Operating Environment

Temperature: 18 to 30°C / 64 to 86°F
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 messy 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 52x74cm/20"x29", unless otherwise stated

- 1) with an additional option installed
- 2) speed will vary according to printing parameter used
- 3) confirm substrate/toner compatibility with MGI
- 4) since January 2014

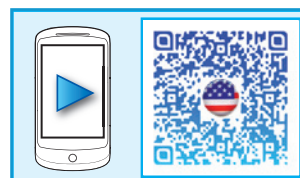


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MGI
Digital Graphic Technology

JET VARNISH 3D

*Inkjet Spot UV Coater
With NEW 3D Raised Effects
52x105cm - 20x42"*



Innovation in Motion

JETVARNISH 3D

The JETvarnish 3D takes digital spot UV coating to a new dimension, featuring increased throughput for flat spot UV jobs and amazing 3D raised effects. Ideal for operations with digital and offset presses up to 52x105 cm (20x42") format, the JETvarnish 3D is the perfect solution for 3D or traditional spot UV coating on runs from one to thousands, providing printers with true value-added services.

Gain new customers and explore profitable market opportunities: your clients will receive visually stunning, tactile pieces that allow them to differentiate themselves from their peers.

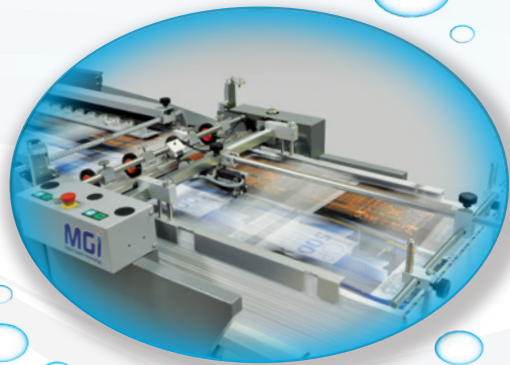
Instant Production

The **JETvarnish 3D** allows for fast startup without plates, screens or waste, producing anything from one to several thousand sheets per hour with ease. On the same document, the JETvarnish 3D can change the coating thickness from **3 to 200 microns**, depending on the user's defined areas.

MGI's Digital Advantage

With extended formats ranging up to **52x105cm (20x42")** and weights up to **600 Gsm**, you can use the JETvarnish 3D to upsell each one of your regular printed jobs into high margin spot UV jobs.

The 100% digital **JETvarnish 3D** allows you to take a few sheets from a job and spot UV coat it, producing a sellable proof so your customers can see the potential and additional visibility and impact that their jobs could have.



Take Your Prints To A Whole New Dimension

3D Spot UV Coat Directly Onto Digital Prints

No lamination required. Take advantage of MGI's newly redesigned coating formula coupled with the ability to precisely vary the level of coating thickness on each sheet along with MGI's ARC registration technology to give your digital prints an additional WOW factor. The Variable Data option adds full personalization capabilities for maximum marketing impact.

Inkjet Technology

MGI's exclusive inkjet technology bring you the quality you deserve, from the first page to the very last. Precise piezo (drop-on-demand) print heads allows for lines as small as **0.5 mm (1/144")** or as wide as the sheet (**max. width 515 mm/20"**). With MGI's patented coating formula, users can switch from one job to another with no equipment cleaning required.

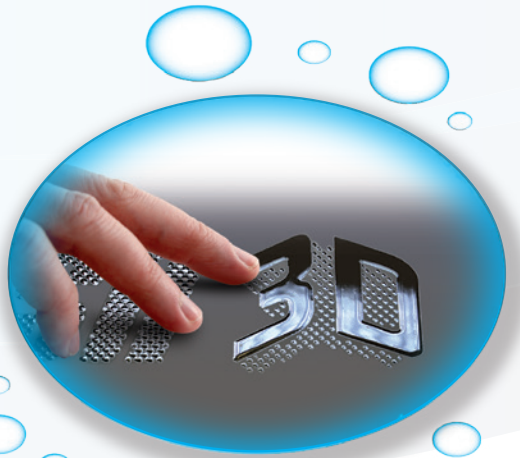
New - high capacity tank

For your medium and long runs, the JETvarnish 3D comes standard with a high capacity tank (HCT) containing 18 liters of coating. No need to refill your tank too often, you save time and money.

UV Curing

The JETvarnish's integrated UV curing dries sheets "on-the-fly" via a conveyor belt, with no solvents required.

Sheets are completely dry upon entering the high capacity stacker and can be immediately handled.



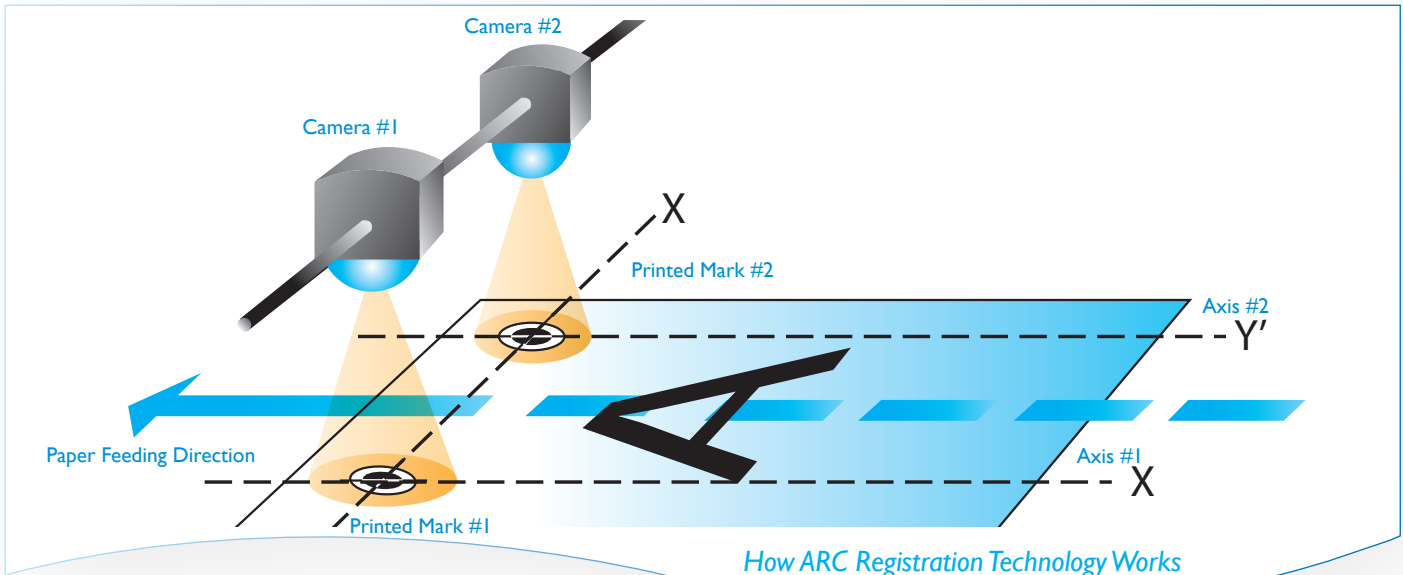
Respecting Mother Nature

- Closed-circuit functioning maximizes varnish consumption, thus preventing waste
- Lower noise levels than European standards, virtually eliminating any noise pollution
- Lower energy consumption than traditional UV systems.



New - two registration cameras

The JETvarnish 3D comes equipped with ARC registration technology (Automated Registration Camera), two onboard cameras combined with a proprietary tracking system designed to calibrate (on-the-fly) coating registration from sheet to sheet. The first camera is reading any printed marks and automatically corrects for changes in X and Y portions of each sheet. The second camera detects the paper skew and adjusted it on-the-fly. The ARC system ensures accurate spot UV coating, even on jobs with inconsistent print registration, a traditional obstacle for those wishing to spot UV coat jobs printed on some digital presses.



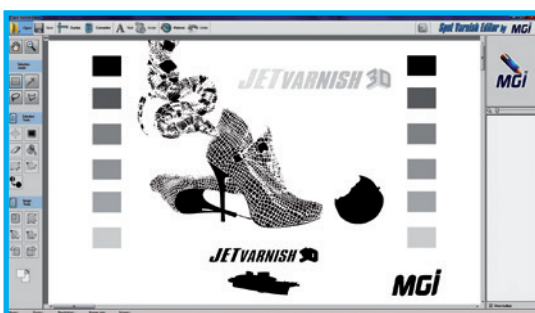
New - Software suite and touch-screen interface

The JETvarnish 3D has a new built-in innovative software suite developed by MGI, including: cost calculator, on-the-fly image editor, reprinting, archiving, registration camera manager, maintenance and variable data manager. The JETvarnish 3D adopts for this purpose, a new ergonomic and intuitive interface to control the front end software suite «**WSM TouchScreen**». A new 27" touch screen completes the offer. This new software allows both operators and technicians to cover all operations related to the production and maintenance, through a graphical and user-friendly interface. Here are the two most useful features :



Cost Calculator

Based on your job's spot UV coating mask, this powerful calculator anticipates your coating consumption down to the microliter, something that has, until now, never been possible on traditional spot coating technologies. Sleep soundly at night knowing in advance what your precise production costs are, in turn allowing you to make reliable and accurate job estimates. The cost calculator is also available on Windows computers for your pricing and sales departments.



Spot Varnish Editor

An easy to use tool designed by MGI for editing job masks on-the-fly. Why waste time going back and forth between your production and prepress departments when the JETvarnish operator can simply do all the job file modifications right there from the production floor? A major time saver designed for a high production work environment.