



Giving Shape to Ideas

The Ultimate Inkjet Spot Varnish Solution

## MGI JETVARNISH 3DS

With print prices steadily declining, printers need new ways to boost revenue and increase profit margins. The MGI JETVARNISH 3DS gets it done – giving you the power to apply an ultra-precise spot coating on all your prints, digital or offset, in short or long runs, even vary the thickness of your coating between 15 and 100 microns for attractive 3D tactile effects. You will be able to offer your customers added value and creativity by transforming prints into irresistible, eye-catching communications tools with immediate appeal – and you will have greater leverage to attract new clients and grow your business.



# MGI JETVARNISH 3DS – a new dimension of added value and communications impact.

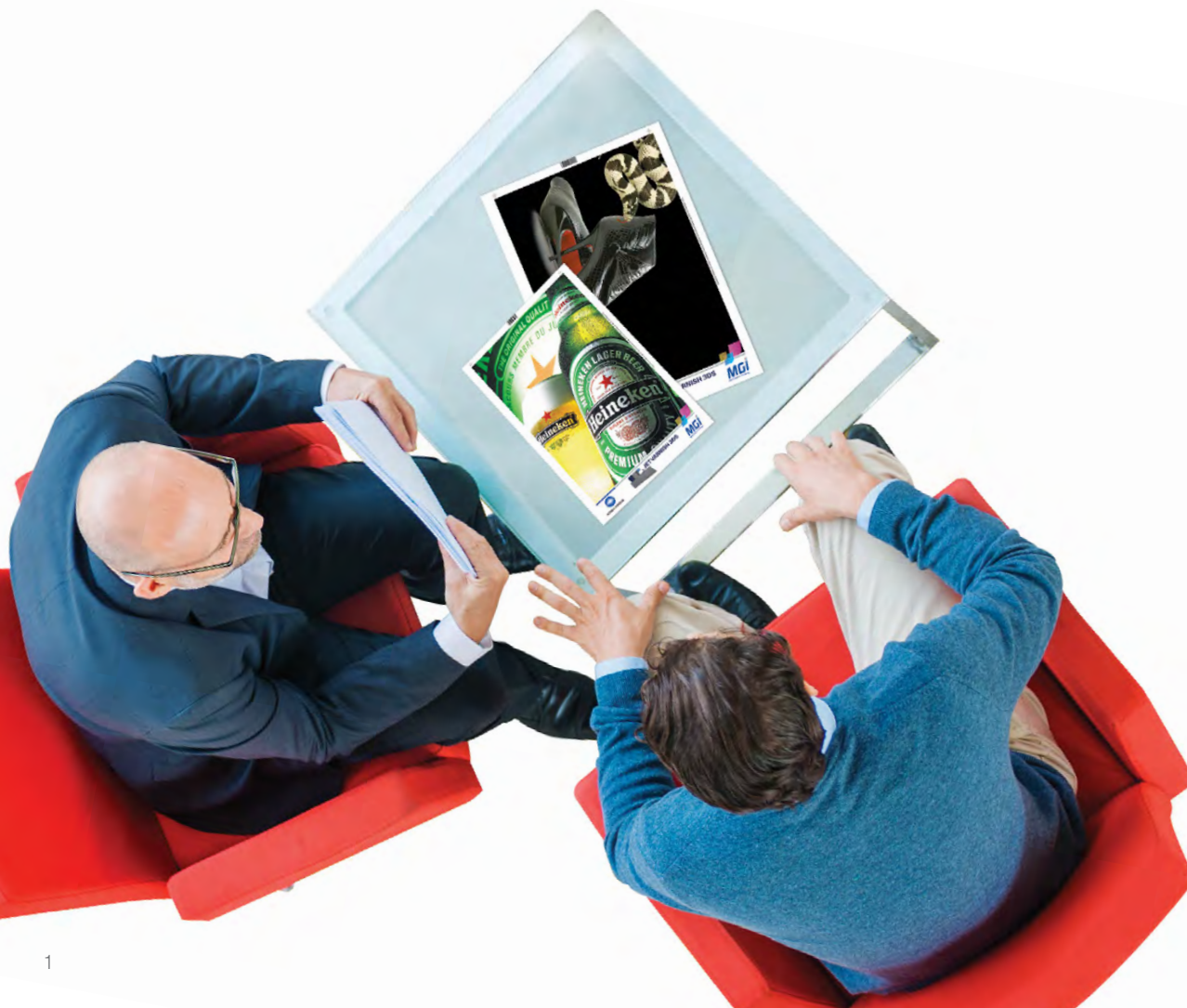
**Here is the opportunity to raise your game** – winning new prospects and penetrating lucrative prestige markets. The MGI JETVARNISH 3DS provides fully digital inkjet spot coating, transforming your customers' prints to incorporate new visual and sensory effects for more powerful print communications.

## **Instant Productivity**

Start fast, finish strong. No prep is required beyond creating a graphic description file for surfaces to be coated (5<sup>th</sup> colour). Once your file is ready, the first coated sheet is output within 5 minutes. Any sheet coming out of the JETVARNISH 3DS is immediately dry and ready for handling – and your customers can OK a print proof that will be fully identical throughout production.

## **Digital Performance**

All the benefits of digital technology. Handling paper sizes from 8.5" x 11" to 14.33" x 40.15", the JETVARNISH 3DS is an ideal partner for both digital and offset presses. The extreme gloss of the coating, combined with accurate camera-based registration control, will enhance your clients' digital prints. You can also run jobs that include variable data on items to be coated.





Ted Smith! You can save money each week on your dry cleaning with SparkleShine™.



### UV Inkjet Technology

Precision from first to final page. Drop-on-Demand technology developed and manufactured by Konica Minolta uses ultra-precise piezoelectric print heads to produce extremely thin lines (0.5 mm) as well as wide solid areas. You will also have production rates of up to 3,000 sheets per hour in 30 micron coating thickness.

### Real-Time Registration

Unerring accuracy on the fly. JETVARNISH 3DS features an Automatic Registration Camera (ARC) system using two built-in cameras to automate the registration and correction of the sheets to be coated "on the fly." The first camera reads the printed registration marks and automatically corrects for any X and/or Y offset on each sheet. The second camera detects possible paper bias and corrects it in real time. The ARC system ensures superior accuracy of the spot UV coating, even on jobs where initial registration is less than ideal – a challenge when trying to apply spot UV coating on digital prints.

### Environmentally Friendly

Less waste, less power, less noise. The JETVARNISH 3DS process does not require a plate or screen, so there is no waste of materials. Closed-loop operation optimizes coverage and eliminates waste. Neither volatile solvents (VOCs) nor ozone are released. Power consumption is optimized to save energy – and noise level is below US standards, giving you a quieter workplace.

# Production Assistance.

**JETVARNISH 3DS features a software suite designed for streamlining and facilitating your production.**

The package includes three main modules: 3DS HubManager, Spot Varnish Editor, and Production Cost Analyzer, all controlled from a large graphic touchscreen:

## **3DS HubManager**

With simple touchscreen control, the 3DS HubManager lets you monitor jobs, manage the queue, create job tickets, launch reprints, and adjust the ARC system. You can easily export detailed production data for internal cost analysis or quick integration to your MIS system.

## **Spot Varnish Editor**

Why waste time running back and forth between production and prepress? User-friendly Spot Varnish Editor software lets your JETVARNISH 3DS operator perform final touch-up of graphic files (5<sup>th</sup> colour) – speeding response time and increasing throughput to help turn jobs around more quickly.

## **Production Cost Analyzer**

For each file that is spot-coated, this powerful calculator can anticipate the exact quantity of varnish required and the cost of the upcoming production run – an immediate benefit not possible with conventional technology. Ensuring accurate quotes, you can closely control profit margins.



# Professional Performance.

**With rugged design and respect for the environment,** JETVARNISH 3DS is built to get the job done in demanding production applications. Pro-class features include:

## Communications Impact

Make your client's products and services stand out from the crowd with striking 3D raised effects. Adding spot coating to printed brochures, display materials, packaging and other communications materials gives your clients a tactile impact that online information cannot deliver.

## No Plates or Screens

With 100% digital performance, the JETVARNISH 3DS eliminates the need for expensive and time-consuming plates, screens or setups.

## High-Gloss Coating

Using a new high-gloss coating formula, the JETVARNISH 3DS delivers a gloss level of 99% (G.U.) – beyond the reach of traditional analog technology.

## Inkjet Technology

Precise piezoelectric print heads enable the JETVARNISH 3DS to create lines as small as 0.5 mm or as wide as a full 14" sheet – and you will be able to switch from one job to another with no equipment cleaning required.

## High-Capacity Tank

For high-volume production demands, the JETVARNISH 3DS features a high-capacity tank containing 10 liters of coating – which means less reloading time to interrupt your output.

## Flat and 3D Effects

There is no need to choose between traditional flat spot coating or 3D raised effects, because the JETVARNISH 3DS can do them both on the same sheet.

## Fast Output

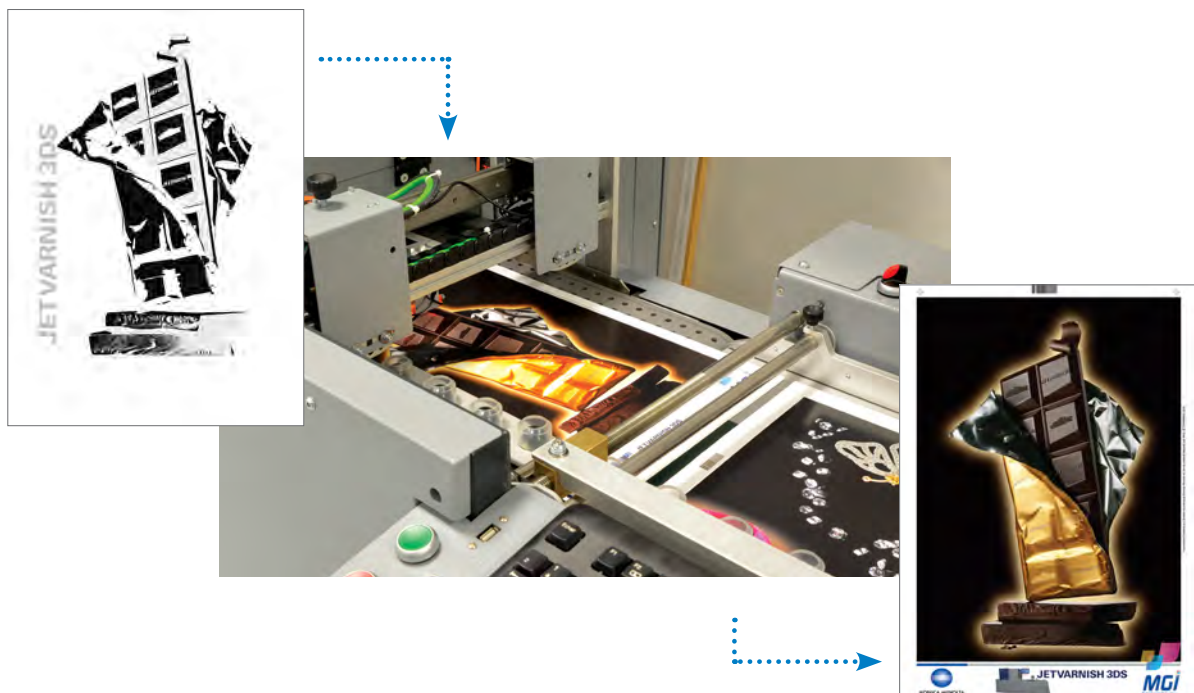
With throughput speeds up to 3,000 sheets per hour, spot varnish applications will not compromise your productivity. From short to long runs, the JETVARNISH 3DS gets the job done better and faster.

## Greater Versatility

Ideal for spot coating needs including both large flat areas and ultra-fine details, JETVARNISH 3DS is designed to handle the creative requirements of virtually any print job.

## Extended Formats

For larger originals like book covers with multiple flaps, the JETVARNISH 3DS can cover sheets up to 14.33" wide and 40.15" long – another unique feature to increase your production opportunities.



# Specifications

## Print Technology

- Patented MGI proprietary inkjet technology
- Drop-on-Demand (DoD) technology developed and manufactured by Konica Minolta
- Piezoelectric print heads
- Flexible and scalable printing system

## Coating Thickness

- 15-100 microns for a wide range of visual and tactile effects (smooth, textured, embossed)
- Coating thickness configurable through the coating file (5<sup>th</sup> colour) created in DTP and by the operator at the time of production
- Thickness may vary depending on the four-colour printing technology used, the surface treatment applied to the sheet, and the type of paper used

## Production Speeds

- Up to 3,000 8.5" x 11" sheets per hour (based on 30 micron coating thickness)
- Up to 900 8.5" x 11" sheets per hour (based on 100 micron coating thickness)

## Registration

- Feedboard with left-hand adjustment allows for precision feeding of all types of jobs where the sheet's origin (0,0) is on the left side
- MGI's automatic registration feature, using two ARC cameras that realign each job "on the fly" based on the registration marks printed on each sheet (X, Y and bias adjustment)  $\pm 200$  micron tolerance

## Paper Sizes

- Min.: 8.5" x 11"
- Max.: 14.33" x 40.15"

## Max. Coating Width

- Up to 14"

## Substrate Thickness

- Minimum: 135 gsm or 150 microns before printing and lamination
- Maximum: 450 gsm or 450 microns before printing and lamination
- Motorized adjustment of the print heads based on the substrate
- Compatible with most matte or gloss laminated surfaces, with or without acrylic varnish, coated paper, plastic, PVC and other closed surfaces
- Direct coating onto output from most digital presses without lamination or surface treatment



### UV Coating

- 10-liter, high-capacity tank

### Paper Feeder

- High-capacity feeder can accommodate a stack of paper of 30 cm or 2,500 sheets (135 gsm)

### Paper Feed Mechanism

- Flat paper path
- Air-assisted start
- Variable vacuum belt feeder

### In-Line UV Curing

- Dual-sheet detection cell
- Drying “on the fly” via built-in UV LED drying system
- No additional drying time required
- Coated sheets can be handled immediately upon exit

### Front End System

- Job queue management on a dedicated PC (CPU + touchscreen + keyboard + mouse)
- 10/100/1000BASE-T (RJ 45) Ethernet connectivity

### Application Software

- Comprehensive job queue management
- Printing cost estimate calculator (quantity of varnish required)
- Picture touch-up software for final changes prior to production

### Maintenance and Remote Technical Support

- Daily maintenance in less than 10 minutes
- Most procedures are automated
- Cold starting in less than 10 minutes
- Automated cleaning system
- Remote support and troubleshooting via built-in video camera
- High-speed Internet connection required

### Operator Control

- Driver/operator LCD touchscreen

### Dimensions and Weight

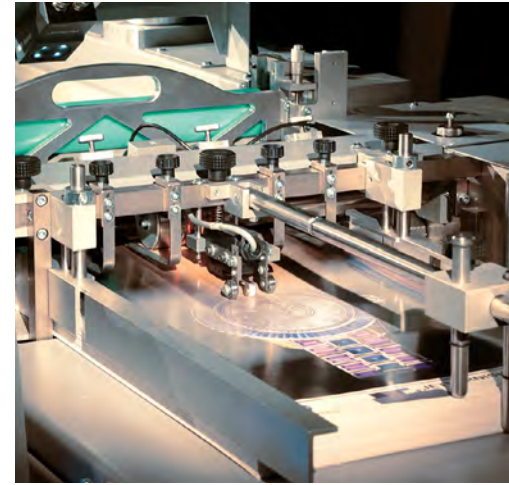
- Dimensions: 13.98' (17.95') x 3.74' x 5.91' (length x width x height)
- 40" on each side of the machine is required for access and opening of doors
- Weight: ± 2,425.1 lb (1,100 kg)

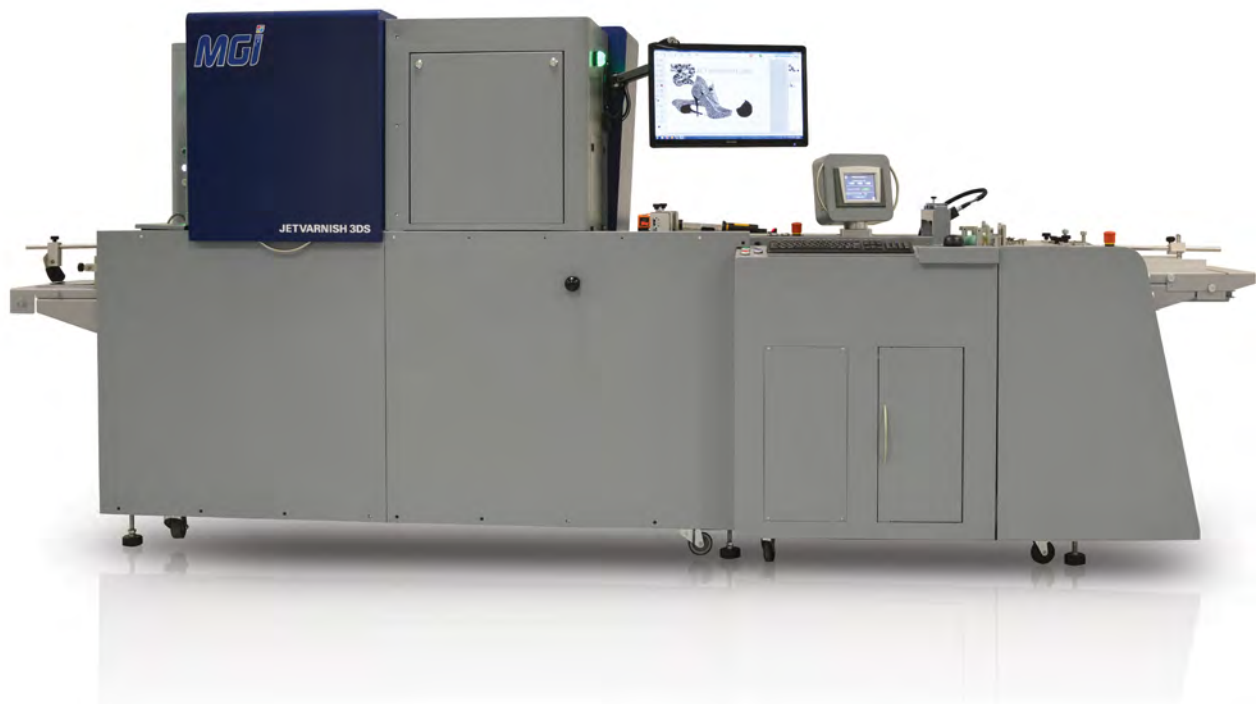
### Electrical Requirements

- 7.5 kW (32 A) @ 220/240 volts, 2 EEC/IP44 32A outlets (1L + G + N)

### Operating Environment

- Temperature: 65 to 85°F
- Humidity: between 30 and 50% (non-condensing)





## PARTNERSHIP

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 3D Printers  
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Servers and Networking Equipment  
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