KONICA MINOLTA

HIGHER PROFITS
ON YOUR PRINT JOBS

RETHINK EMBELLISHMENTS
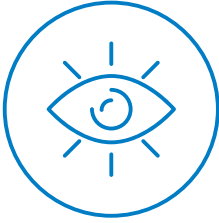## WITH DIGITAL SPOT UV COATING

Giving Shape to Ideas

MGI JETVARNISH 3D ONE
COST-EFFECTIVE ACCESS TO INNOVATIVE DIGITAL EMBELLISHMENTS

Customers today are always looking for more from your business: more value, creativity and performance from their print jobs. The MGI JETvarnish 3D One allows you to transform standard print jobs into engaging print products that deliver exactly what your customers are looking for — at a price that's cost effective for your business. You'll be able to easily spot-coat digital prints, highlight specific areas or add 3D effects — all resulting in powerful printed communications that are more vivid and tactile.

From the global market leader and pioneer of digital embellishment technologies, the MGI JETvarnish 3D One makes it simple for companies of any size to offer 2D Spot UV and textured 3D varnish special effects — enhancements that will change your business offerings as much as it's changing print itself.

Delivers big opportunity in a compact size

The MGI JETvarnish 3D One has a small footprint, allowing printers with limited space to have an in-house, full-production and prototype-finishing Spot UV varnish resource — without any screens, plates or dies. You'll be able to pursue new, higher-margin applications that will grow your business.

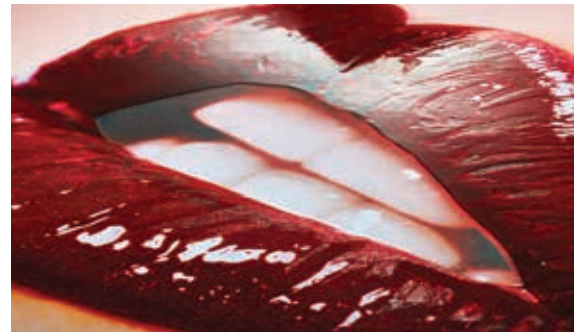## Creates a vast number of special effects — on a wide range of substrates

Using one single varnish formula, MGI JETvarnish 3D One digitally produces both flat 2D Spot UV and tactile 3D special effects on a wide range of substrate stocks and media, including paper, plastics, synthetics and cartons. MGI's unique substrate management process enables these enhanced print treatments to be produced on substrate stocks from 135 to 450 gsm. The possibilities are endless, as you can print on materials ranging from offset and digital inks to lamination films and aqueous coatings.

Simplifies job setup

The combination of an easy-to-use touchscreen operator software suite and AIS SmartScanner with an intelligent and adaptive automatic registration system allows for "Scan & Go" job setup. The result is instantly optimized registration on every piece and minimal waste.

Expands your business by providing clients with high-impact personalized printed pieces

The MGI JETvarnish 3D One adds impact to every printed piece while also adding highly profitable digital special effects to any printing application. Plus, the Variable Data Printing (VDP) option opens the door to even more possibilities.

RETHINK THE INDUSTRIAL PRINTER

TAKE A LOOK INSIDE THE MGI JETVARNISH 3D ONE

ECO-FRIENDLY IN-LINE LED DRYER

– On-the-fly drying and curing with integrated LEDs

– No additional drying time required

– Ozone-free and without heat thanks to LED technology

– Low-power consumption

PAPER OUTPUT TRAY

– Up to 1,250 sheets at 135 gsm

– Accepts paper formats from Letter up to 14.3" x 29.5" (36.4 x 75 cm)

VARNISH DIGITAL AND OFFSET PRINTS

– Varnishing on toner without lamination

– Varnishing on offset prints

– Accurate sheet-to-sheet registration with the AIS SmartScanner technology

– Quick and easy setup supports digital printing business model

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 mask

– Wide range of substrates possible

VARIABLE VARNISH THICKNESS

– Can be adapted to individual customer needs

– Maximum 3D effect: up to 116 µm

– Minimum thickness (on laminated surfaces): from 21 µm

KONICA MINOLTA PRINT HEADS

– MGI's exclusive inkjet technology

– Includes Konica Minolta's genuine piezoelectronic printheads

– Flexible printing architecture

POWERFUL SOFTWARE SUITE

– On-the-fly job manager

– Workstation image editor

– Catalog of different patterns

– Job cost calculator that estimates production costs before quoting jobs

– Intuitive operation

– Eliminates customer prepress issues

– Saves time and money

VARIABLE DATA OPTION

– Barcode reader option available

– For variable data printing (text/graphic and image) on 2D/3D Spot coating areas

PATENTED AIS SMARTSCANNER

– Full-page scanner

– On-the-fly coating registration from sheet to sheet

– On-the-fly paper skew, shift, contraction and stretch adjustment

HIGH PRODUCTIVITY WITH SINGLE-PASS PRINTING

– Up to 2,077 A3 sheets per hour with varnish thickness of 21 µm (2D/flat mode)

– 1,260 A3 sheets per hour with varnish thickness of 51 µm (3D mode)

– Up to 547 A3 sheets per hour with varnish thickness of 116 µm (3D mode)

HIGH-CAPACITY PAPER FEED

– New vacuum belt feeding system

– Handles paper pile up to 11" or approximately 2,250 sheets at 135 gsm

– Supports paper formats from Letter up to 14.3" x 29.5" (36.4 x 75 cm)

100% DIGITAL TECHNOLOGY THAT GIVES YOUR BUSINESS A COMPETITIVE EDGE

AIS SmartScanner for innovative registration

The AIS system eliminates more than 80% of operator setup time spent on registration processes — while reducing make-ready waste. It uses Artificial Intelligence to create an automatic varnish registration for inkjet heads over the preprinted sheet.

There's never a decrease in feeding speed. And your operators don't have to do a thing. The AIS simply makes corrections and adjustments on any defects generated by the original print run and/or lamination process. The AIS SmartScanner will fix:

– Sheet and image skew

– Sheet and image shift on X and/or Y direction

– Sheet and image stretch, partial or total

– Sheet and image correction contraction, partial or total

– And more

Rethink the enhancement market

The MGI JETvarnish 3D One adds eye-catching special effects to help printers energize the communication campaigns of brands, resulting in highly profitable new application revenue streams. It allows you to:

– Take on more lucrative short and medium print runs

– Speed up make-ready

– Eliminate plates and screens

– Produce more complex jobs

A MULTITUDE OF PRINT APPLICATIONS

The possibilities are endless. Digital Spot UV coating can enhance a multitude of projects — adding that extra dimension to help differentiate your customers. Create both tactile and visual effects to enhance patterns, make products stand out or accent typography. Digital Spot UV works great on :

– Business cards

– Invitations

– Greeting cards

– Menus

– Direct mail

– Book and magazine covers

– Brochures

– Sheet-fed labels

– Small folding cartons

– And more

A COMMITMENT TO SUSTAINABILITY

Konica Minolta promotes sustainable development and integrates environmental and social perspectives into its business strategies.

The MGI JETvarnish 3D One embodies this ideal, incorporating several eco-sensitive features. The ink is in a closed/circuit system, leaving no ink or varnish residue. The press has been designed so there is no cleaning or material waste in between jobs. Overall, these small yet significant details reduce paper, varnish and electrical consumption — helping the environment and your bottom line.

JETVARNISH 3D ONE
Digital print embellishment press

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 printing architecture
Coating thicknesses	– Depending on your file, the inks used and the type of surface of your sheet, the coating thickness can vary – Laminated and aqueous coating: 21 µm – 116 µm for 3D-raised effects and tactile finish – Toner and coated paper: 30 µm – 116 µm for 3D-raised effects and a tactile finish
Production speed	– 2D/flat mode: Up to 2,077 A3 sheets per hour (with 21 µm) – 3D/raised mode: Up to 1,260 A3 sheets per hour (with 51 µm) – Up to 547 A3 sheets per hour (with 116 µ)
Registration	SmartScanner coupled with Artificial Intelligence (AIS) for full real-time automated sheet-to-sheet registration process; no crop marks required
Formats	Min.: 210x297mm Max.: 364x750mm Max printable width.: 352mm
Substrate thickness	Min.: 135 g/m^2 and not less than 150 µm or 6 mil before printing and lamination Max.: 450 g/m^2 and not more than 450 µm or 18 mil before printing and lamination Motorized height-adjustment printheads
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 3D coat directly onto most digital prints with no lamination or coating required
UV coatings and capacity	Varnish delivered with a 10-liter tank capacity
High-capacity automatic feeder	Feeder able to handle a paper pile: – Up to **28 cm** – 2,250 sheets at 135 g/m^2
Paper tray	Tray able to handle a paper pile: – Up to15cm – Approximately 1,250 sheets at 135 g/m^2 – All paper formats from A4 up to 364x750mm – No paper extensions available – Automatic tray full sensor

Paper path	– 100% flat paper path – Vacuum-feed system – Air-feed system – Automatic double-sheet detection – In-line LED dryer – On-the-fly drying and curing via integrated LED
Maintenance and 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 touchscreen
Options	Variable Data Printing (VDP) option: Complete system including RIP, barcode reader and MGI software to automate the association between a preprinted barcode and its specific spot coating file
Dimensions (L x W x H)	4.02 x 1.20 x 1.80 m Necessary clearance: 1 m on all 4 sides
Weight	± 2,646 lb (1,200 kg)
Electrical requirements	7.5 kW (30A) at 208 – 240 Volts 50/60 Hz 2 Nema plugs L6-30P (30A 250V, 2P 3 Wires)
Operating	Temperature: 18°C – 30°C Environment relative humidity: 30 – 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
Options	– Automatic PDF file converter (using PC-C1) – Variable data printing barcode camera – AIS SmartScanner lighting for metalized substrates

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 Konica Minolta

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