KONICA MINOLTA

MGI JETvarnish 3D Evolution & iFOIL L DATASHEET

- Digital spot UV coating/hot-foiling for 2D/3D effects
- Produces brilliant foil effects on digital and offset jobs

If you are looking into differentiating and upgrading your services, go for the MGI JETvarnish 3D Evolution as the ideal solution for digital and offset print providers. Turn plain printed jobs into remarkable and appealing prints by spot coating digital and offset prints, highlighting defined areas, or adding tactile 3D effects with our digital spot UV coating device MGI JETvarnish 3D Evolution. And by combining it with the inline hot-foiling module, you'll achieve an even more glamorous finish.

MGI Digital Technology

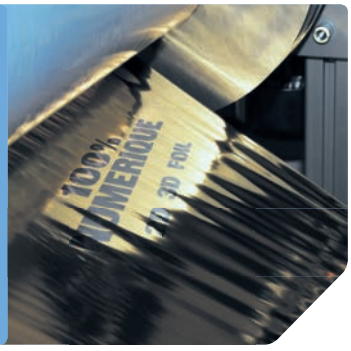
JETVARNISH 3D Evo Digital varnish & iFOIL

Giving Shape to Ideas

YOUR ADVANTAGES WITH
THE JETvarnish 3D Evolution & iFOIL L

VARNISH AND IN-LINE HOT-FOIL STAMPING

- All MGI JETvarnish 3D Evolution models can be combined with an inline hot-foiling solution
- For quick and easy production of foil stamping jobs
- For digital and variable varnish and foil embellishments
- For prototyping as well as high-volume productions



INNOVATIVE SOFTWARE SUITE

- Suite includes cost calculator, workstation image editor and reprint utility
  - Cost calculator for varnish consumption and cost calculation
  - Spot varnish editor is a graphical tool that allows editing files directly at the workstation
- Saves time and improves efficiency

NEW PALLET STACKER

- For easy pallet unloading
- For simple production workflows

EXPANDABLE INKJET SYSTEM FORMAT

- Designed to grow with your business
- Availability in two instead of three different widths that can be upgraded on demand for increased productivity:
  - 52 x 120 cm
  - 75 x 120 cm
- Upgradable with EVO Extension Kits: 75 x 120 cm

EASE OF USE

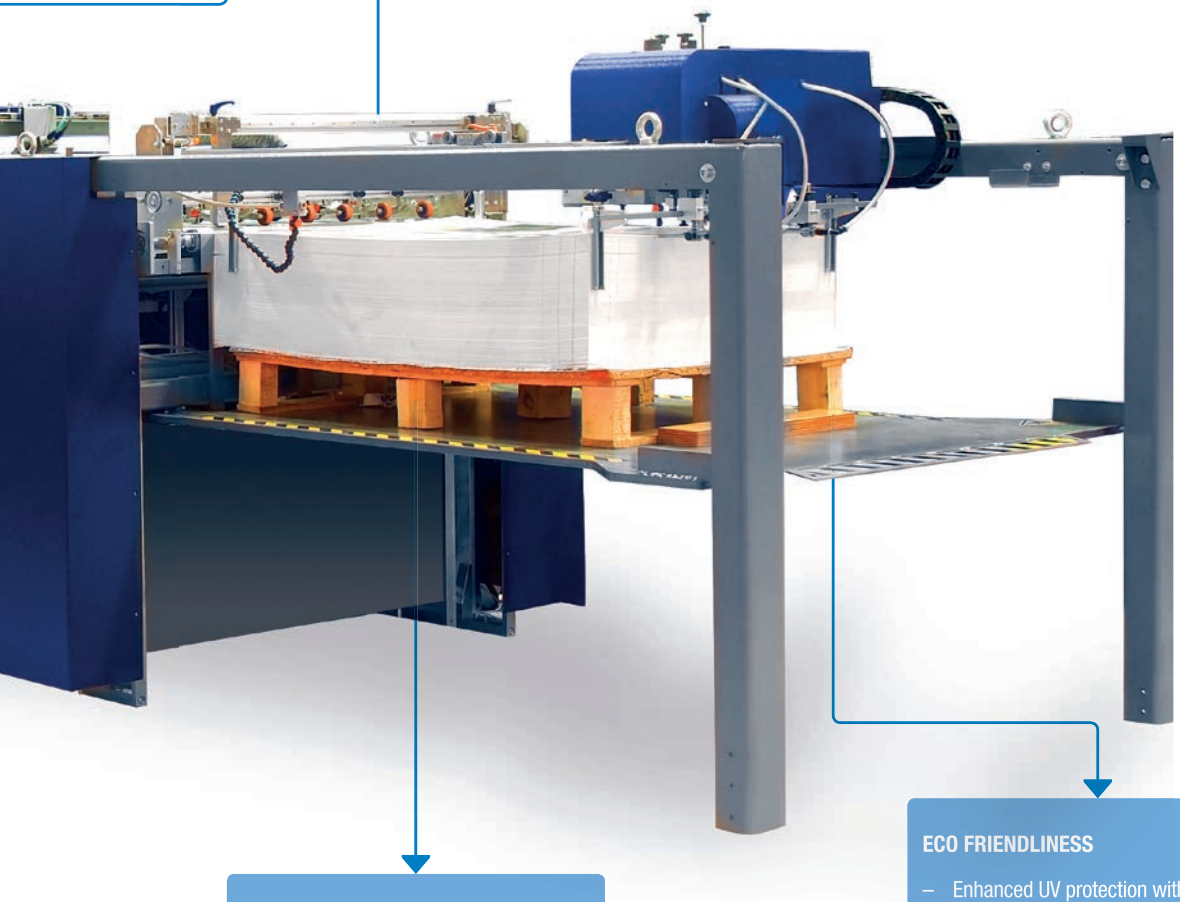
- MGI JETvarnish 3D Evolution is not a push button press, but you will quickly understand how the device works
- When using compatible media and foil, all operators need to do is set the appropriate speed and temperature

REVOLUTIONARY AIS SMARTSCANNER REGISTRATION SYSTEM

- Automatic varnish and hot foil registration system
- Eliminates more than 80% of the setup time spent on the registration adjustment process
- No drop in speed
- Automatically calculates the need for adjustment and applies it without operator intervention

TACTILE AND EMBOSSING EFFECTS

- Multiple colour foil effect
- Variable data foiling (VDF) with 2D/3D effect
- Foil over foil effect
- From 3 to 232 microns (µm)



HIGH PRODUCTION SPEED AND PERFECT VARNISH QUALITY

- Up to 3,123 ISO B2 sheets per hour
- Print speed can be increased to 4,200 ISO B2 sheets per hour with printable width of 75 cm enabled
- Up to 2,291 ISO B1 sheets per hour
- For high-volume productivity

ECO FRIENDLINESS

- Enhanced UV protection with lower energy consumption than traditional UV systems
- Automatic inkjet head cleaning system avoids manual cleaning between jobs
- No make-ready
- No plates
- No screens
- No dies
- Less waste

Technical specifications

SYSTEM SPECIFICATIONS - MGI JETvarnish 3D Evolution

Printing technology	Exclusive MGI inkjet engine technology Drop-on-Demand (DoD) inkjet application Piezoelectric print heads in single pass printing
Coating thicknesses	Depending on the print file and substrate used, the coating thickness can vary from a traditional flat spot UV coating of 3** µm up to 232 µm for 3D raised texture effects and a tactile finish.
Production speed	Up to 3,123 ISO B2 sheets per hour in all versions The version Evo 75 can reach up to 4,200* ISO B2 sheets per hour (in landscape) and up to 2,291 ISO B1 sheets per hour
Registration	SmartScanner coupled with Artificial Intelligence (AIS) for a real-time fully automated sheet-to-sheet registration process No crop marks required
Formats	Min: 42 x 29.7 cm Max: 75 x 120 cm
Printable areas	Max: 54 cm or 73 cm
Substrate thickness	Min: 135 gsm and not less than 150 µm before printing & lamination Max: 800 gsm and not more than 800 µm before printing & lamination***
Substrates	Enhancement on most** matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials. The used substrate needs to be either coated or laminated. Otherwise the media will absorb the varnish and the desired effect might be lost
Varnish on toner	Spot 3D coat directly onto most** digital prints
UV coatings and capacity	1 coating tank for both 2D & 3D applications One high capacity tank of 18 litres "On-the-fly" tank changeover possible during production without any interruption and no waste
Automatic feeder	High capacity feeder for paper stacks of up to 60 cm height for 75 x 120 cm sheets Approximately 4,000 sheets at 135 gsm
Pallet stacker	Supports sheets of up to 75 x 120 cm size on pallet packaging
Paper path	100% flat paper path Vacuum feed system Air feed system Automatic double sheet detection
Front end system	Intuitive touchscreen software management suite controlled by a 27" monitor Job cost calculator, image editor, queue manager and reprint, camera and print head settings and reprint, dedicated controller for equipment settings and technical data Ethernet connection 10/100/1000 BT in RJ 45
In-line UV dryer	"On-the-fly" drying & curing via integrated UV lamps
Maintenance & remote technical support	Automated inkjet head cleaning and wiping Daily maintenance completed in less than 10 min Mainly automated procedures From cold start to production in less than 15 min Remote troubleshooting & support via included web video camera (high-speed internet connection required)
Operator panel	Integrated user-friendly LCD touchscreen
Production speed	Up to 2,300 B2 landscape sheets per hour
Formats	Up to 75 x 120 cm
Hot foil stamping area	Max: 74 x 119 cm
Substrate thickness	Min: 150 µm Max: 600 µm (standard), 800 µm (optional)
Foil rolls	Max. roll diameter and length: approx. 30 cm and from 400 to 2,000 meters of film Up to 5 simultaneous film rolls on the same axis (with a minimum of 10 cm per roll) 2 cores available Change for: 1 inch as standard and 3 inches as option
Dry air	Requires air without oil at 6 bar (87 psi) & 24 m3/h (14 cfm)

PRODUCT SPECIFICATIONS - MGI JETvarnish 3D Evolution + IFOIL L

Dimensions (L x W x H)	Up to 12.72 x 1.86 x 1.84 meter (Evo 75 full options)
Weight	Approx. 4,524 kg
Electrical requirements	40 kW (63 A) at 400 Volts - 50/60 Hz + 20 kW (32 A) at 400 Volts - 50/60 Hz
Temperature	18 to 30°C
Relative humidity	between 30 and 50% (no condensation)

OPTIONS

Corona[1/2] substrates treatment module	In-line system to optimise varnish adhesion on complex printed substrates
Variable Data Printing (VDP)	– Full variable data (text, graphic, image) for both 2D/3D spot coating and hot foiling areas – Integrated barcode (1D/2D) reader system & controller – Raster Image Processor (RIP) as an option
75 cm Evo kit for upgrade enhancement	Option or later update for printing of up to 75 x 120 cm sheet size

* With the 75cm/Evo kit. ** Confirm substrate/toner/metallic film compatibility with MGI. [1] Requires substrate above 42 cm width. [2] Requires paper above 250 gsm/250 µm.

– The support and availability of the listed specifications and functionalities varies depending on applications as well as system configurations.
– The stated life expectancy of each consumable is based on specific operating conditions such as page coverage for a particular page size. The actual life of each consumable will vary depending on use and other printing variables including page coverage, page size, media type, continuous or intermittent printing, ambient temperature and humidity.
– Some of the product illustrations contain optional accessories.
– Specifications and accessories are based on the information available at the time of printing and are subject to change without notice.
– Konica Minolta does not warrant that any prices or specifications mentioned will be error-free.
– All brand and product names may be registered trademarks or trademarks of their respective holders and are hereby acknowledged.