KONICA MINOLTA

JETVARNISH 3D EVO
Digital varnish & iFOIL

CREATE A SENSATION

TRANSFORM PRINT INTO UNFORGETTABLE SENSORY IMPACT

Giving Shape to Ideas

MAXIMIZE PROFITABILITY WITH ADDED VALUE

DIFFERENTIATE, ENGAGE, AND COMMAND PREMIUM PRICING

In today's competitive market, differentiation isn't optional—it's essential. With Konica Minolta's **digital embellishment solutions**, you can elevate your print offerings and captivate your customers with stunning, tactile experiences that drive results at higher margins.

- **Boost Engagement:** Textured finishes and metallic foils increase interaction and retention.
- **Command Premium Pricing:** Add value to every page with eye-catching effects.
- **Streamline Production:** Our digital solutions eliminate the need for costly dies and lengthy setup times.

ADD SHINE TO YOUR BUSINESS

VALUE-ADDED OPTIONS TO EXPAND YOUR CAPABILITIES AND CREATE NEW BUSINESS OPPORTUNITIES

- LARGE FORMAT PRINTS & DYNAMIC PERFORMANCE
- 2D & 3D GLOSS EFFECTS
- SCAN AND GO WITH ARTIFICIAL INTELLIGENCE SMARTSCANNER® (AIS)
- GENTLE ON THE ENVIRONMENT
- ADD IMPACT TO EVERY PRINT JOB
- ADD FOIL WITHOUT PLATES

EFFORTLESS PRODUCTION

100% DIGITAL FOR PROFITABLE, STRESS-FREE PRINT RUNS EVERY TIME

- For high-volume productivity
- Prepare print runs faster
- Eliminate plates, screens and dies
- Produce more complex jobs
- Apply on top of a wide range of substrates,
- Toner and offset prints
- Job cost calculator
- Workstation spot varnish editor

WHITE GLOVE SERVICE

THAT ACCELERATES YOUR GROWTH

When you choose Konica Minolta's digital embellishment solutions, you're not just investing in cutting-edge technology — you're gaining a partner committed to your success.

Our **White Glove Service**, included with every device, supports you at every stage of your journey. From seamless installation and expert training to ongoing service and workflow optimization, we ensure your equipment performs at its best — so you can focus on growing your business and maximizing profits.

ENDLESS APPLICATIONS

CREATE IMPACT ACROSS EVERY MARKET

Digital Spot UV coating adds that extra dimension to any project, helping your customers stand out in an increasingly dense crowd. Create tactile and visual effects on typography and images or add 2D and 3D gloss elements to your designs.

BOOKS, BOOK COVERS, MAGAZINES, BROCHURES

Offer on-demand printing and embellishment that reduces storage costs for your customers.

DIRECT MAIL, POSTCARDS

Help your customers to differentiate themselves with highly customised mail items that will outshine any email.

GREETING CARDS, BUSINESS CARDS, EXCLUSIVE INVITATIONS

Create unique business or greeting cards on a range of substrates in small, medium or large quantities.

OTHER APPLICATIONS

- Personalised calendars
- VIP tickets
- Point-of-purchase and promotional materials
- Sheet-fed labels
- Menus

PACKAGING, CARTONS

Produce eye-catching packaging options on-demand, with capacity for versioning and personalisation in small and medium quantities.

SUSTAINABILITY & DE-INKABILITY

The JETvarnish 3D Evolution's 100% digital process eliminates the need for conventional intermediate consumables (cliches, plates and screens) and solvents, which are particularly polluting and generate subcontracting, transport and packaging waste. Its small footprint and low power consumption immediately reduce CO2 emissions. It's automatic on-the-fly makeready eliminates waste, optimizing raw material consumption.

In parallel, JETvarnish 3D Evolution UV Varnishes and Foils also meet the Ingede 11 de-inkability standard for certain substrates, allowing printed paper to be recycled in the interest of a circular economy.

- Enhanced UV protection with lower energy consumption than traditional UV systems
- No make-ready, no plates (offset), no screens (silkscreen), no dies (hot foiling), no waste (electricity, paper, varnish, and time)
- No cleaning steps between jobs (automatic inkjet head cleaning system)
- Reduction of consumables (elimination of many plastics)

YOUR ADVANTAGES WITH JETvarnish 3D Evolution & iFOIL-L

DELIVER MORE THAN PRINT—DELIVER IMPACT!

Elevate your print with JETvarnish 3D Evo—highlight, embellish, and add depth for unforgettable customer experiences.

iFOIL L OPTION

- Industry-first fully digital variable data foiling
- Superior adhesion using hot foil stamping technique
- 2D and 3D embossed effects
- With OptiFOIL film optimization & foil roll management

PALLET STACKER

- High-capacity stacker able to handle a paper pile up to 60 cm / 23.6" high for 75 x 120 cm (29" x 47") sheets
- Approximately 4,000 sheets at 135 gsm

PROPRIETARY INKJET TECHNOLOGY

- Exclusive inkjet technology
- Uses Konica Minolta's genuine piezoelectric Printheads
- Flexible printing architecture

UNIVERSAL VARNISH

- No need to change varnish or clean between jobs
- Varnish comes in an 18-liter tank

VARIABLE VARNISH THICKNESS

- Can be adapted to individual customer needs
- Minimum thickness: from 7 µm
- Maximum 3D effect: up to 232 µm

POWERFUL SOFTWARE SUITE

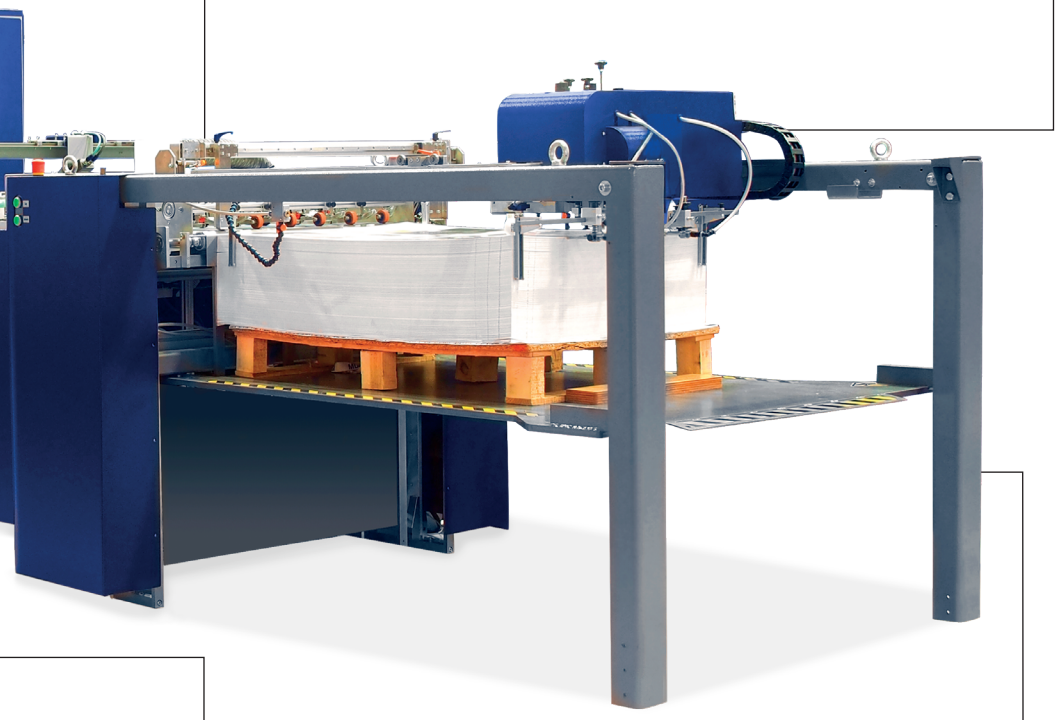
- On-the-fly job manager
- Workstation image editor
- Catalogue of different patterns
- Job cost calculator that estimates production costs before quoting jobs
- Intuitive operation
- Eliminates customer prepress issues
- Saves time and money

ARTIFICIAL INTELLIGENCE SMARTSCANNER®

- Full page scanner
- No crop marks required
- Automated sheet to sheet registration
- On-the-fly skew, shift, contraction and stretch adjustment

VARIABLE DATA PRINTING (VDP)

- For variable data printing (text/graphic and image) on 2D/3D spot coating areas
- Optional VDP barcode scanner available



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
- Up to 2,291 ISO B1 sheets per hour
- For high-volume productivity

CORONA TREATMENT SYSTEM (CTS) OPTION

- Optional in-line system enables a broader variety of media to be used such as a wider variety of plastics
- Improves varnish adhesion and maximizes embellishment quality on digital prints

AUTOMATIC PALLET FEEDER

- High-capacity feeder able to handle a paper pile up to 60 cm / 23.6” high for 75 x 120 cm (29” x 47”) sheets.
- Approximately 4,000 sheets at 135 gsm

JETvarnish 3D EVOLUTION & iFOIL L —

DELIVERING DYNAMIC PERFORMANCE

FOR THE MOST DEMANDING APPLICATIONS.

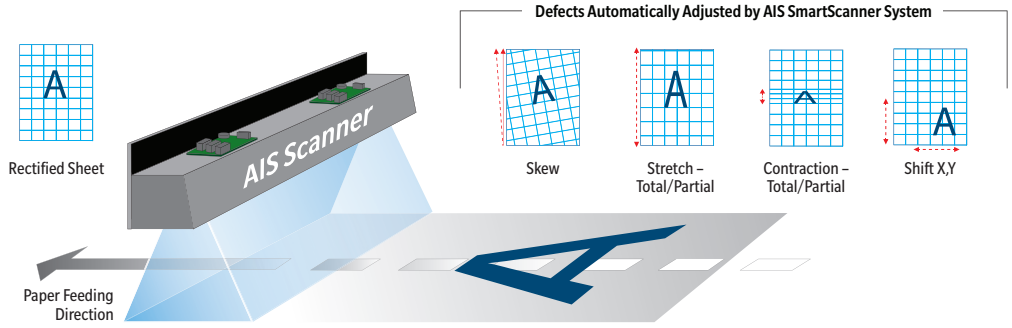
ARTIFICIAL INTELLIGENCE SMARTSCANNER (AIS)

The AIS system is a revolutionary registration development for the printing and finishing industry:

- Eliminates over 80% of operator setup time spent on registration processes
- Allows quick and seamless integration within job workflows with a "scan and register" setup process
- Supports rapid equipment amortization with increased throughput, faster job completion and greater productivity
- Removes unnecessary operator wage costs and paper make-ready waste

The patented AIS system uses Artificial Intelligence to create an automatic varnish and hot foil registration for inkjet heads over the preprinted sheet. It's fully compatible with Variable Data Finishing (VDF) jobs. Using print image and inkjet synchronization algorithms, the AIS system runs at more than 5 billion operations per second. Without operator intervention or a decrease in feeding speed, it makes corrections and adjustments for any defects generated by the original offset or digital printing run and lamination process. For example:

- Sheet and image skew
- Sheet and image stretch – partial or total
- Sheet and image contraction – partial or total
- Sheet and image shift on X and/or Y direction



SOFTWARE SUITE AND TOUCHSCREEN INTERFACE

OVERSEE IT ALL

The highly innovative JETvarnish 3D Evo software suite includes management tools that operate via an intuitive touchscreen interface. Job cost calculator. Workstation image editor. AIS SmartScanner setup. And more. You'll be able to manage all operations related to production and maintenance.

JOB COST CALCULATOR

Based on your job's image file, this powerful calculator forecasts varnish consumption costs down to the penny, and automatically calculates precise production costs prior to actual production. It's a valuable tool for managing supply costs and making accurate job estimates. Also available on a PC for your pricing and sales departments.

SPOT VARNISH EDITOR

This easy-to-use graphical tool was designed for editing job files at the workstation. It allows your production operators to quickly modify enhancements without going back to pre-press. It saves time and allows operators to set up jobs in minutes, conducting rapid prototyping directly from the equipment workstation. Varnish and foil enhancements are designed for high production work environments.

GO THE EXTRA MILE

BOOST YOUR OUTPUT WITH THESE OPTIONAL ADDITIONS

- iFOIL-L variable hot foil stamping
- Corona treatment system
- Variable data printing barcode scanner
- Automatic pdf file converter

JETVARNISH 3D EVO + IFOIL L: A COMPLETE SOLUTION

The JETvarnish 3D Evo and iFOIL L combine to create the visual and tactile excitement you've been looking for to distinguish your products in the marketplace. The software suite simplifies layout mask changes on sheets ranging from A4 format to 75 x 120 cm / 29 x 47" and on substrates ranging from 150 to 600 microns (µm). Plus it produces brilliant foil effects on jobs printed on offset, flexo and digital presses. Foil can be applied on coated papers, synthetics, plastics, laminated films and aqueous coated surfaces—adding value and profits to your business, while reducing outsourcing costs and job delays. .

IFOIL L – PERSONALIZED EMBOSSED VARIABLE DATA FOILING (VDF)

The JETvarnish 3D Evo offers a fully integrated, inline option to add the award-winning iFOIL L Hot Foiling System. This functionality produces digital and variable embellishments such as very fine lines, small lettering and detailed texture effects on each piece. It is both a perfect prototyping tool and a complete high-volume production solution.

WHY IT MATTERS:

iFOIL L eliminates the need for films, dies, screens and make-ready. This allows quick and easy production of foil stamping jobs from one sheet to thousands of sheets, allowing printers, converters and trade finishers to expand into profitable new market segments.

Spectacular and unique effects are now available within a 100% digital process:

- Embossing from 18 to 200 microns (µm)
- Multiple colored foils applied in one pass (up to 5 colors)
- Variable data foiling (VDF) with 2D/3D UV coating
- Foil over foil to create dramatic special effects
- Unique capability to foil and emboss on plastic (including on Polypropylene/PP)

IMPROVED PRINTABILITY ON VARIOUS SUBSTRATES

The Corona Surface Treatment System (CSTS) is an optional module that works inline with the JETvarnish 3D Evo. It's a well-proven and simple way to modify the surface tension of a substrate to improve the printability of a variety of substrate materials, regardless of the printing process. It minimizes using the time-consuming and costly lamination process.

Before the corona treatment, some substrates have a low surface energy, not allowing the varnish to "wet" homogeneously to the substrate, thus creating surface defects.

The CSTS uses an electric discharge transferred on the substrate using an electrode. The surface of the substrate is modified and better prepared prior to spot coating and eventually hot foiling. CSTS really pays off by increasing the dyne level or surface energy of the material, allowing the varnish to be perfectly laid.

VARIABLE DATA PRINTING (VDP)

- The JETvarnish 3D Web 400 opens a world of possibilities with its variable data printing option. Just imagine the impact it will have, pushing the limits on personalizing self-adhesive labels with varnish and hot foil variable data printing.
- You'll be able to make basic customization with standard information such as name, version, sentence, etc. Or you can realize full customization with multiple criteria such as images, text, layout, etc., to create a truly unique piece.
- Optional high-performance PC RIP with software and optional VDP camera system required

TECHNICAL SPECIFICATIONS
RETHINK INNOVATION

SYSTEM SPECIFICATIONS

Printing technology	• Exclusive inkjet engine technology. • Drop-on-Demand (DoD) inkjet application. • Piezoelectric printheads in single pass printing. • Flexible and scalable architecture.
Variable coating thicknesses	Depending on your file and the substrate used, the coating thickness can vary from a traditional flat spot UV coating of 7 microns (µm) up to 232 µm for 3D raised texture effects and a tactile finish.
Production speed (1)	Up to 3,123 B2 sheets size per hour for all versions. The EVO 75 can reach up to 4,200 ISO B2 sheets per hour (landscape) and up to 2,291 ISO B1 sheets per hour.
Registration	Left and right motorized registration side guides. Automatic registration using the built-in AIS SmartScanner technology for real-time management of entire sheet. No registration marks required.
Managed paper formats	Min: 32 x 45 cm / 12.6x17.7" (SRA3 in landscape and portrait) Max: 75 x 120 cm/29 x 47"
Printable width areas	Up to 73 cm/28.7" (standard Evo 75 configuration)
Substrate thickness	Motorized inkjet head height-adjustment. Min: 135 gsm and not less than 150 µm/6 mil before printing and lamination. Max: 600 gsm and not more than 600 µm before printing and lamination.
Substrate compatibility (2)	Enhancement on most matte or glossy laminated surfaces, with or without aqueous coating, layered paper, plastic, PVC and other coated materials. Spot 3D coat directly onto most digital prints.
UV Coatings and capacity	1 coating tank for both 2D and 3D applications. One high-capacity tank of 18 liters. "On-the-fly" tank changeover possible during production without any interruption or waste.
Automatic pallet feeder	High capacity feeder able to pile up paper up to 60 cm/23.6" high for 75 x 120 cm (29 x 47") sheets. Approximately 4,000 sheets at 135 gsm.
Pallet stacker	Support sheets up to size 75 x 120cm (29 x 47") on pallet packaging.
Paper path	• 100% flat paper path. • Vacuum feed system. • Air feed system. • Automatic double sheet detection.
In-line UV dryer	"On-the-fly" drying and curing via integrated UV lamps.
Front end system	• Intuitive touchscreen software management suite controlled by a 27" monitor. • Includes functions for operators: – Job cost calculator, image editor, queue manager and reprint, camera and print-heads settings. • Dedicated controller for equipment settings and technical data. • Ethernet connection 10/100/1000 BT in RJ 45.
iFOIL L	Optional Digital Hot Foiling module application: standard sheet format 75 x 120 cm (29 x 47"). • Production Speed: Up to 2,307(1) B2 sheets size per hour (or upq to 25 m per minute – 65.6 ft per minute). • Films: Uses a variety(2) of hot foils available on the market. Optimization system of film consumption. • Film Rolls: Max. roll diameter and length: ± 30 cm/11.8" and from 400 to 2,000 meters of film (1,300 to 6,500 ft). Up to 3 simultaneous film rolls on the same axis (with a minimum of 10 cm/3.9" per roll). 2 cores available: 1 inch and 3 inch. • Maximum Su rface: Hot foil substrate surface can not exceed 73 x 118 cm/28.7 x 46.5" • Embossing: 2D and 3D effects are possible at any time. The surface of the metallized film may be covered with a layer of varnish or another foil. • Dry Air: Requires air without oil at 6 bar (87 psi) and 24 m^3/h (14 cfm) supply.
Other options	• Variable Data Enhancement (VDE). Optical "on-the-fly" variable data system uses camera and preprinted barcodes. Variable data for text, graphic and image on both 2D/3D spot coating and hot foiling areas. • Corona Surface Treatment System (CSTS)
Maintenance and remote technical support	• Automated inkjet head cleaning and wiping. • Daily maintenance completed in less than 10 min. • Majority of procedures are automated. • From cold start to production in less than 15 min. • Remote troubleshooting and support via included web video camera (high-speed internet connection required).
Dimensions and weight JETvarnish 3D Evo + iFOIL L	12.42 x 1.93 x 1.84 m/40.7 x 6.3 x 6.0 ft (L x W x H) Necessary clearance: 1 m (3.3 ft) on 3 sides and 2 m (6.6 ft) on the stacker side. ± 5,000 kg/11,023 lbs
Electrical requirements	JETvarnish 3D Evo + iFOIL L 40 kW (63 A) at 400 V – 50/60 Hz 20 kW (32 A) at 400 V – 50/60 Hz
Operating environment	Temperature: 18 to 30 °C/64 to 86 °F. Relative humidity between 30 and 50% (no condensation)

The default sheet size is B2 (51 x 71 cm/20 x 28") unless otherwise stated.
(1) Speed will vary according to printing parameter used.
(2) Confirm substrate/toner/metallic film compatibility with Konica Minolta.

For complete information on Konica Minolta products and solutions, please visit: **CountOnKonicaMinolta.com**

KONICA MINOLTA

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