

JETvarnish 3D 52L

DIGITAL PRINT EMBELLISHMENT PRESS

TECHNICAL SPECIFICATIONS

Printing technology	<ul style="list-style-type: none"> • Konica Minolta's 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 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 (flat spot UV coating or 2D)
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. Overall registration of ± 200 µm.
Managed paper formats ⁽²⁾	Min.: 42 x 29.7 cm / 16.5" x 11.5" (A3 in landscape mode) Max.: 57 x 120 cm / 22.4" x 47" 75 x 120 cm / 29.5" x 47"
Printable width areas	54 x 118 cm / 21.3" x 46.5"
Substrate thickness ⁽³⁾	Min.: 135 gsm and not less than 150 µm / 6 mil before printing and lamination Max.: Up to 600 gsm
Substrate compatibility ⁽³⁾	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 sheet-fed feeder	High-capacity feeder able to handle a paper pile up to 60 cm / 23.6" high for 57 x 120 cm (22.4" x 47") sheets. Approximately 4,000 sheets at 135 gsm.
Pallet stacker	High-capacity stacker able to accommodate stakes up to 60 cm / 23.6" high for 57 x 120 cm (22.4" x 47") sheets. Approximately 4,000 sheets at 135 gsm.
Paper path	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 printhead settings • Dedicated controller for equipment settings and technical data • Ethernet connection 10/100/1000 BT in RJ 45

iFOIL L	<p>Optional Digital Hot Foiling module application</p> <ul style="list-style-type: none"> • Production speed: Up to 1,750 ⁽¹⁾ B2 sheets size per hour (or up to 25 m / 65.6' per minute) • Films: Optimization system of film consumption • Film Rolls: Max. roll diameter and length: ± 30 cm / 11.8" and from 400 – 2,000 m / 1,300' – 6,500' of film. Up to three simultaneous film rolls on the same axis (with a minimum of 10 cm / 3.9" per roll). Two cores available: 1" and 3" • Maximum surface: Hot foil substrate surface cannot exceed 57 x 118 cm (22.4" x 46.5") ⁽⁴⁾ • Embossing: 3D hot foil raised effects. The surface of the metallized film may be covered with a layer of varnish or another foil
Other options	<ul style="list-style-type: none"> • Corona ⁽⁵⁾⁽⁶⁾ substrates treatment module: In-line system made to optimize varnish adhesion on complex printed substrates • Pallet feeder: Supports sheets up to size 75 x 120 cm / 29.5" x 47" • Pallet stacker: Supports sheets up to size 75 x 120 cm / 29.5" x 47" • Variable data printing (VDP) • Manage and edit files on the workstation • Full variable data (text, graphic, image) for both 2D/3D spot coating and hot foiling areas • Integrated barcode (1D/2D) reader system and controller • Raster image processor (RIP) as an option
Maintenance and remote technical support	<ul style="list-style-type: none"> • 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 and support via included web video camera (high-speed internet connection required)
Dimensions and weight	Up to 12.42 x 1.93 x 1.84 m / 40.7' x 6.3' x 6.0' (L x W x H) ⁽⁷⁾
JETvarnish 3D 52L + iFOIL L	Necessary clearance: 1 m / 3.3' on four sides Up to ± 4,529 kg / 9,984 lbs ⁽⁷⁾
Dry air requirements	An on-site dry air system is necessary
Electrical requirements	JETvarnish 3D: 400 V, 50/60 Hz, 32A (63A plug) + iFOIL L: 400 V, 50/60 Hz, 25A (32A plug)
Operating environment	Temperature: From 18 – 30°C / 64 – 86°F Relative humidity: Between 30 and 50% (no condensation)

The default sheet size is B2 ISO (50 x 70.7 cm / 19.7" x 27.8") unless otherwise stated. All speeds are nominal.

(1) Speed will vary according to printing parameter used.

(2) With the pallet feeder and stacker options.

(3) Confirm substrate/lamination/toner/metallic film compatibility with Konica Minolta.

(4) Standard configuration.

(5) Require substrate above 42 cm width.

(6) Require paper above 250 gsm / 250 µm.

(7) Depending on the configuration selected.

LOWER ENVIRONMENTAL IMPACT

- Enhanced UV protection with lower energy consumption than traditional UV systems
- No makeready, plates (offset), screens (silkscreens), dies (hot foiling) or waste (electricity, paper, varnish and time)
- Reduction of consumables (elimination of plastics)
- Closed-circuit system to minimize varnish consumption, thus preventing waste

For complete information on Konica Minolta products and solutions, please visit: [CountOnKonicaMinolta.com](https://www.CountOnKonicaMinolta.com)

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