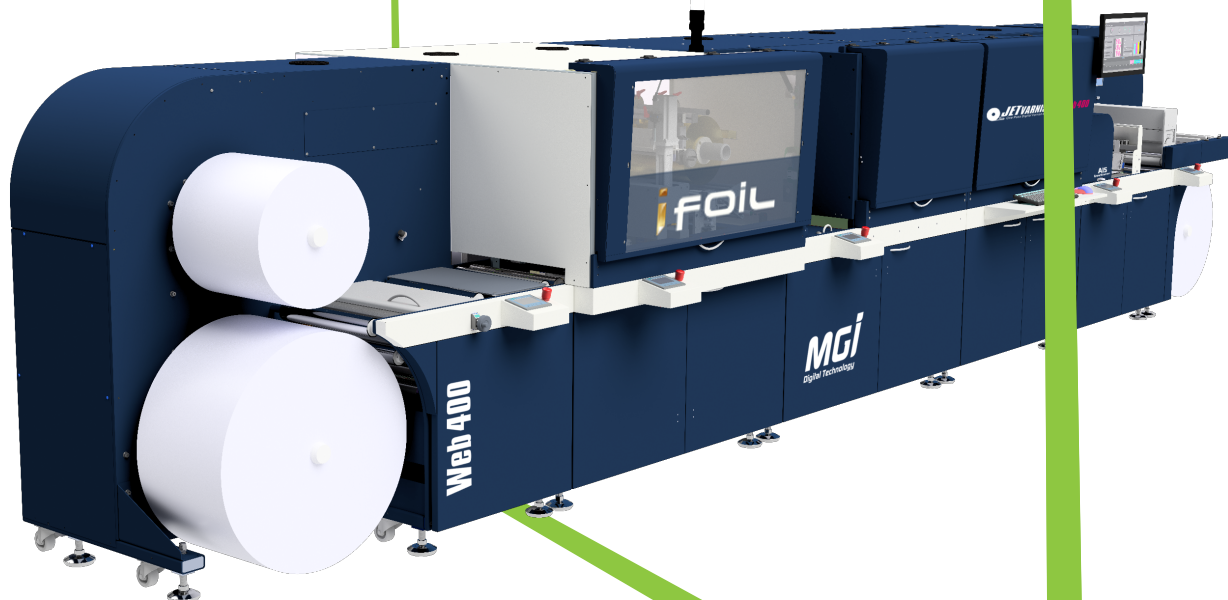


100% DIGITAL EMBELLISHMENT SPOT UV VARNISH, HOT FOIL STAMPING & VARIABLE DATA IN A SINGLE PASS



High-quality digital roll-to-roll embellishment technology which is easy to use, environmentally friendly, scalable and brings a very high added value.



The JETvarnish 3D Web 400 is the latest generation of roll-to-roll digital embellishment presses from MGI Digital Technology.

It enables single-pass spot UV varnishing and hot foil stamping, using a 100% digital process, on open or closed substrates, and for offset, flexo, toner or inkjet printing.

Dedicated to the self-adhesive label and flexible cardboard markets, the JETvarnish 3D Web 400 is the best response to brands' need for ever greater reactivity, quality and high added value. It enables converters and printers to reduce their customers' time-to-market, while transforming the impact of their labels and packaging on the shelf, in full compliance with their environmental strategies.

The versatile JETvarnish 3D Web 400 meets the most varied requirements for short, medium and long runs, by enhancing basic four-color production with digital spot uv varnish and hot foil stamping in fixed or variable data, flat or embossed, facilitating multi-stretching and versioning.

High Quality 100% digital

The JETvarnish 3D Web 400 enables inkjet application of spot UV varnishes, from 7 to 224 microns, for the most beautiful flat or relief renderings, with an unrivalled level of quality and stability, on all types of substrate, open, closed and synthetic. Its on-the-fly registration, controlled by the artificial intelligence of its AIS Scanner, offers perfect, stable registration throughout the print run, whatever the skew, stretch or contraction of the printed web. Hot foil stamping is applied to an inkjet-printed adhesive varnish, using the same methods as for UV varnish, guaranteeing a high level of quality.

No screens, no plates

100% digital, the JETvarnish 3D Web 400 applies spot UV varnish and hot foil stamping without the need for single-use plates, screens, plates and consumables, thanks to its inkjet technology.

Productivity, responsiveness and speed of implementation

Equipped with one or two MGI inkjet print engines, the JETvarnish 3D Web 400 applies spot UV varnish and hot foil stamping in a single pass, at up to 50m / minute. Its on-the-fly makeready system makes it easy to run back-to-back prints one after the other. Its automatic cleaning system takes just 10 minutes a day, so you can concentrate on production.

Low-migration, deinkability & sustainability

The JETvarnish 3D Web 400'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. Its automatic on-the-fly makeready eliminates waste, optimizing raw material consumption. Available in a low-migration(*) version, according to the SQTS standard for indirect food contact, and de-inkable on certain substrates according to Ingede 11, the only reference standard on the market, the JETvarnish 3D Web 400's UV varnish AND MGI hot foil stamping combine finishing with respect for the environment.

100% scalable solution

Totally upgradeable, the JETvarnish 3D Web 400 is made up of modules that enable printers and converters to easily upgrade it as their finishing business grows. The JETvarnish 3D Web 400 is available in 4 configurations - with one or two inkjet engines and with or without hot foil unit - to suit all needs and budgets.



Ease of use, predictive maintenance, cost calculation and online approval in augmented reality

Controlled by a simple, intuitive interface that can be replicated on a digital tablet, the JETvarnish 3D Web 400 enables any operator to perform complex finishing operations that are impossible to achieve with conventional technologies. Its MGI Connect software suite integrates cost calculation, MGI Dashboard predictive maintenance, and MGI Approve augmented reality remote B&T for prime contractors. Hosted in a secure Cloud, MGI Connect can be



All the benefits of 5.0 Factory now available

Thanks to its 100% digital integration and unified workflow, from the customer's online approval in augmented reality, to real-time monitoring of production status, the JETvarnish 3D Web 400 can already deliver all the benefits of a Factory 5.0: optimum quality, productivity, print run versatility, production customization, reduced production and personnel costs, reduced environmental impact, job enrichment and well-being at work.

With the MGI JETvarnish 3D Web 400, all the benefits of 5.0 Industry become accessible, for a successful digital transformation and an immediate return on investment.



Digital embellishment solution for self-adhesive labels and flexible packaging



CERTIFIED MGI FOILS

MGI manufactures a range of hot foil stamping films in France, certified on its JETvarnish presses, guaranteeing optimum quality every day. 11 traditional references and 2 security references.

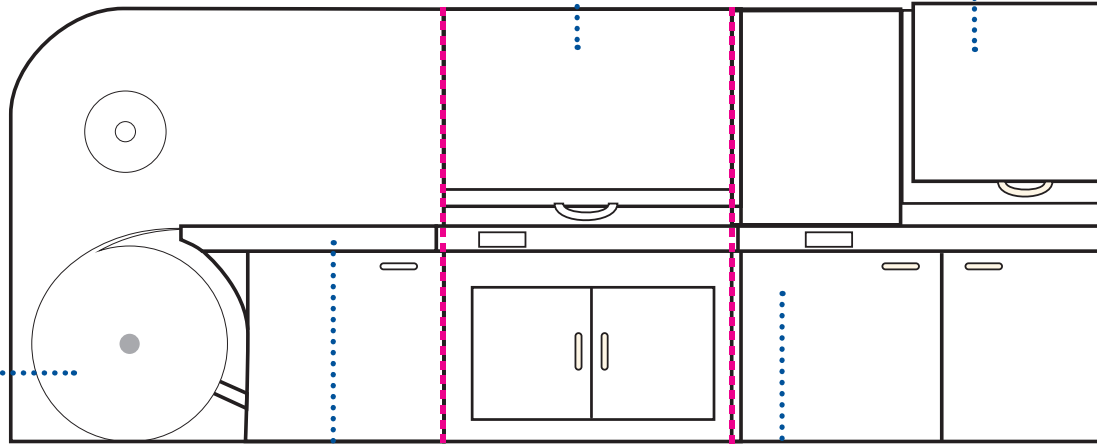
New digital hot foil stamping unit, more compact and faster, offering improved productivity, compatible with 1' or 3' cores and featuring an all-new heated roller.

NEW IFOIL GROUP GENERATION(*)

Spot or total application of a UV varnish, flat or embossed, on a maximum usable width of 350 to 400 mm. UV varnish from 7 to 112 microns.

INKJET MAIN PRINT ENGINE

SINGLE OR DOUBLE (*) MOTORIZED REWINDER



KNIFE CUTTING (*)

Rotating knife cutting module for producing coils at the machine output, before transferring them to a finishing / weeding press.

3 DRYING TECHNOLOGIES

3 complementary drying technologies for perfect embellishment quality.

main print engine: LED + IR + UV
optional print engine: high-power LED

1 TECHNOLOGY, 4 CONFIGURATIONS THAT CAN BE UPGRADED AT ANY TIME

The upgradeable MGI JETcarnish 3D Web 400 is available in 4 different configurations, to best meet individual customer needs and budgets. You can upgrade your Jetvarnish 3D Web 400 at any time, as your digital finishing business grows.

SPOT UV



setup #1: main print engine
Unwinder / Scanner / Main Print Engine
Rewinder

Intuitive control station, replicable on a tablet, enabling production to be planned, launched and tracked, OEE to be calculated and optimized in real time, and print data from all productions stored in the cloud to be accessed at any time. MGI Dashboard predictive maintenance management.

PILOTING STATION



Corona module modifies surface tension and facilitates varnish application on certain toner/inkjet digital prints. It increases press versatility by expanding the range of substrates that can be processed.

CORONA MODULE(*)

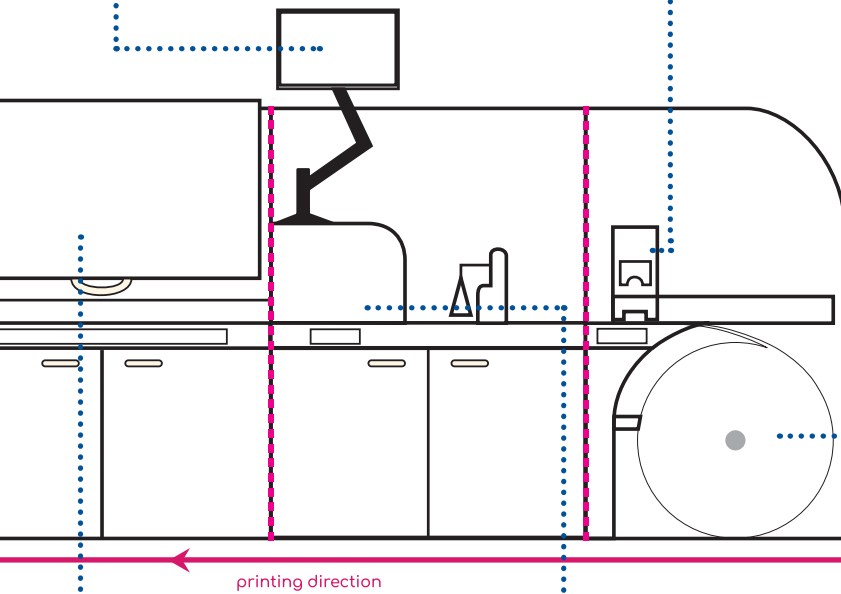
MOTORIZED FEEDING UNWINDER

Easy-to-use module for unwinding of rolls up to 850 mm in diameter. Reversible, it rewinds rolls with precision. Supported widths: 100 - 420 mm

MGI APPROVE, online 5.0 approval



Unique online 3D and augmented reality proofing solution, enabling customers to remotely visualize the real impact of digital embellishment on their project.



INKJET OPTIONAL PRINT ENGINE(*)

Spot or total application of flat or embossed UV varnish on a 350 up to 400 mm working width. Application of a spot UV varnish that does not adhere to hot foil for varnish + foil or varnish + foil + braille production in a single pass.

AIS SCANNER

AIS Scanner controlled by artificial intelligence, ensuring perfect on the fly registration, adapting varnish application according to the print to be finished and substrate deformation. It ensures perfect register in just a few minutes, and reduces waste to a minimum.

SPOT UV 2 ENGINES



setup #2 : main print engine + optional Unwinder / Scanner / Main Print Engine Optional Printer / Rewinder

SPOT UV + IFOIL



setup #3 : main print engine + foil Unwinder / Scanner / Main Print Engine Ifoil / Rewinder

SINGLE PASS



setup #4 : single pass digital varnish + foil Unwinder / Scanner / Main Print Engine Optional Print Engine / IFoil / Rewinder

Technical Specifications

Print speed

Up to 50m/mn⁽¹⁾ (depending on application).

Supported widths

From 100 mm up to 420 mm^(*)

Max. useful printing width

From 350 up to 400 mm^(*) maxⁱ

Substrates⁽²⁾

From 50 to 400 microns (µm)

- Coated paper, film or labels, uncoated and textured.
- Adhesive labels
- White or transparent synthetics, PP, PE, POPP, PET
- Flexible cardboard
- Shrinkable film: PVC, PETG

Extended compatibility

Compatible with all web-fed printing technologies: digital, offset and flexographic presses.

Unwinder

- Outside diameter: 850 mm max.
- Pneumatic 3 inches (76 mm) chuck
- Load capacity: 120 kg max.

Corona treatment^(*)

Inline system designed to optimize varnish adhesion on complex printed substrates.

AIS Smartscanner

The AIS MGI Smartscanner, an artificial intelligence-driven scanner, scans each application to be finished, automatically adapting the application of bonding varnish according to substrate deformation (skewing, partial or total stretching, partial or total contraction and X and/ or Y offsets). The AIS Smartscanner enables on-the-fly set-up of the JETvarnish 3D Web 400, eliminating 80% of traditional set-up and adjustment time. The high productivity it delivers accelerates equipment payback, eliminating material and consumable waste.

Main inkjet Print Engine

Inkjet print engine

This module uses MGI inkjet technology to apply spot UV varnish. A simple grayscale TIF file, designed by the prepress department, determines both the surface to be varnished and the different thicknesses of varnish to be applied to each label. This 100% digital process eliminates the need for screen printing screens.

Varnish thicknesses

From 7⁽²⁾ up to 112⁽²⁾ µm (for 2D or 3D effects).

In-line drying

Integration of three complementary technologies: LED, IR, UV.

Spot UV varnish

99 GU high-gloss varnish.

Optional inkjet Print Engine

Inkjet print engine

This module uses MGI inkjet technology to apply spot UV varnish, which does not adhere to hot foil stamping. This optional module enables varnish + foil stamping in a single pass.

Varnish thicknesses

From 7⁽²⁾ up to 112⁽²⁾ µm (for 2D or 3D effects).

In-line drying

The module is equipped with high-power LED drying technology.

Spot UV varnish

99 GU high-gloss varnish.

Motorized rewinder

- Max. ext. diameter 850mm
 - Pneumatic 3 inches (76 mm) chuck
 - Max. supported weight 120 kg
- Dual shaft motorized rewinder as an option (dual shaft). Max. diameter 700mm, 3-inch pneumatic chuck (76mm) and max. supported weight 120kg.

Variable Data Printing (VDP)

- Managing and modifying files on the workstation
- Complete variable data (text, image) for spot varnish and spot varnish and gilding.
- Integrated barcode reader (1D / 2D)
- Optional Raster Image Processor (RIP)

Printing press compatibility list

Narrow web printing presses

- Digital (Konica Minolta, HP Indigo, Epson, Xeikon, EFI, Durst, etc.)
- Offset
All manufacturers and technologies: UV, H2O or waterless
- Flexo
All manufacturers and technologies: UV or water-based

Dimensions

From 5.52m up to 8.275 x 1.91 x 2.13 m
Clearance requirements: 1 meter on all 4 sides.

Technical specifications

400 V - 3Ph

240 V - 1Ph

Oil-free dry air 8 bar - 400 L/mn

All speeds are nominal.

(1) speed varies according to the parameters used.

(2) Please contact MGI to check the compatibility of your substrates.

(*) optional

