JETVARNISH by MGI

MGI Digital Graphic Technology

Data Sheet - JETvarnish

A Revolution in Spot Varnish

100% Digital Inkjet Solution

Must See 'ems! PRINT 09 Printing Trade Show *Print 09 2009, USA

BEST PRODUCT OF THE YEAR 2009 EUROPEAN DIGITAL PRESS ASSOCIATION

2008 Winner Packaging Award

MGI presents the JETvarnish, the first digital spot UV coater up to 520 x 1050 mm* format that uses next generation inkjet technology.

The award-winning JETvarnish is perfect for short, medium and long runs and sets the standard for quality, flexibility and profitability in the graphic arts market.

*with option

Instant Production & Startup

The JETvarnish allows for fast startup without plates, screens or waste, producing 1 to several thousand sheets per hour with ease.

Substrates

The JETvarnish accommodates a wide range of substrates, including sheet widths from 210 to 510 mm and weights from 135 to 600 gsm. Add the visual impact of spot UV coating to book covers, brochures, packaging, folders, business cards - the possibilities are only limited by your imagination.

UV Curing

The JETvarnish's integrated UV curing dries sheets "on-the-fly" via a conveyor belt, with no ozone or solvents required. Sheets are completely dry upon entering the high capacity stacker and can be immediately handled.

Graphic Chain Integration

Adding spot varnish to any project is easy - simply add a fifth color through DTP, thus highlighting the areas where the spot effects should be.

After printing the 4-Color document on the press of your choice (digital, offset or flexo), load the 5th color into the JETvarnish's front end system.

Inkjet Technology

MGI's exclusive inkjet technology guarantees perfect results from the first page to the last. Precise piezo (drop-on-demand) print heads allows for lines as small as 0.5mm or as wide as the sheet (maximum width 515 mm).

With MGI's patented varnish formula, users can switch between spot and flood coating automatically, with no equipment cleaning required.

Upgradability

The JETvarnish is already enabled to host an optional second printing line (printing one ink/color or a second varnish formula).

Respecting The Environment

- UV lamps with no OZONE emissions
- Closed-circuit functioning maximises varnish consumption, thus preventing waste
- Noise levels are lower than European standards, virtually eliminating any noise pollution
- Lower energy consumption than traditional UV systems

Technical Specifications

Printing Technology
Drop-on-demand technology.
Piezo heads mounted on a solid plate covering the entire width.
Single pass printing.
Optional second printing line (independent ink circuit, print heads and reservoir) to allow a second color (ink/color or a second varnish formula).

Production Speed
Up to 0.5 m*/sec.
First page out in 16 sec (no preheating or system latency).

Resolution
Minimum** line width: 0.5 mm (1/144").
Maximum line width: 515 mm/20".

Registration
± 200 microns.

Sheet Sizes
Minimum width: 210 mm/8.27".
Maximum width: 515 mm/20".

Varnish & Special UV Inks
Several finishes available - satin, gloss, ultragloss.
Also varnish available in security formula (only seen under black light).

Capacity
Varnish is supplied in a recyclable 6 liter/1.59 gallon bag.
The bag is replaceable "on-the-fly" during production.
Capacity of ink circuit during operation ±1.2 liter/0.32 gallon.

Substrates
Print on matte or glossy laminated surfaces.
Paper, Plastic, PVC and other coated materials.

Registration
New left and right guides allow for alignment to offset gripper marks on either side of the sheet, resulting in the most precise registration.

Substrate Dimensions
Minimum: 210 x 300 mm/6x8".
Maximum: 520 x 740 mm (B2+)/20x29" (standard).
Maximum: 520 x 1050 mm/20"x40" (with option).

Substrate Thickness
Remote height-adjustment print heads.
From 135gsm to 600gsm/50 to 220lb.
Above 600gsm, please contact MGI.

High Capacity Automatic Feeder
High capacity loader that can handle a pile of sheets up to 600 mm/23.6" high (approximately 4,000 sheets at 135gsm).

High Pile Output Stacker
Accomodate stacks up to 600 mm/23.6" high (approximately 4,000 sheets at 135gsm).

Paper Path
100% flat path.
Vacuum feed system.
Air feed system.
Automatic double sheet detection.

In-line UV Dryer
"On-the-fly" drying via integrated UV lamps.
Ozone free system. Coated sheets can be immediately finished or handled, no additional drying time required.

Front End System
Dedicated PC (CPU, screen and keyboard/mouse).
Internet connection 10/100/1000 BT (RJ 45).

Variable Data
100% compatible through PS and PDF flow (with an optional RIP).

Dry Air
A dry air compressor of 6 bar @ 15 l/mn (0.41PSI @ 4 gal/mn) is provided. It can be replaced by on-site air system.

Maintenance & Remote Technical Support
Daily maintenance completed in less than 10 minutes.
Most procedures automated.
From cold start to production in less than 15 minutes.
Remote troubleshooting and support via included video/web camera (high speed internet connection required).

Operator Panel
Integrated user-friendly touch-screen LCD.

Dimensions (L x W x H)
6.47 x 1.36 x 1.82 meter/21.23' x 4.46' x 5.97'.
1 meter/3.3' clearance required on all 4 sides.

Weight
1800 Kg/3,968lbs.

Electrical Requirements
400V, 20 kVA (3P+N+T/32A P17).

Environment
Eliminates resource waste (wasted electricity, paper and varnish).
No plates (offset) or screens (screen printing).
No messy cleanup or preparation between jobs.
Drastic reduction in amount of consumables and use of bulk packaging.
Ozone free. Varnish/ink without solvent.

Operating Environment
Temperature: 18 to 30°C/64 to 86°F.
Relative humidity: between 20 and 70% (no condensation).

the default sheet format is 520 x 740 mm/20" x 29", unless otherwise stated
*speed will vary according to printing parameter used
**depending on substrate

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Digitally printed using the MGI Meteor DP8700 XL.

MGI TECHNOLOGY

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