



KONICA MINOLTA

*EXQUISITE FINISHINGS  
YOU CAN  
TOUCH*



MGI JETVARNISH 3D EVOLUTION

Giving Shape to Ideas



## NEW VISUAL & SENSORY EFFECTS TO CREATE EXCLUSIVE FINISHINGS

Discover the new JETVARNISH series, **JETVARNISH 3D EVOLUTION** - An ideal solution for digital and traditional print providers looking for expanding and upgrading services. Larger formats, quicker prototyping, highly customizable, and capable of using variable data for personalization on every piece produced. Make your prints more profitable with value-added services that will stand out and differentiate you from the competition.

### HIGHLIGHTS:

- Large format prints & dynamic performance with its 8-up format – up to 75 x 120cm
- High volume productivity with up to 4,200 B2 sheet size per hour for EVO 75 version
- Create 3D Varnish image – work from 7 microns up to 232 microns in a single pass on top of CMYK print
- Innovative software suite developed by MGI that includes Job Cost Calculator, Job Manager and Varnish Editor
- iFOIL-L Inline module allows the application of real foil without screens, plates, and dies
- Variable Data Enhancement (VDE) kit provides “on-the-fly” variable data for text, graphics and images





## IFOIL-L

### VALUE AND CREATIVITY WITH OUTSTANDING PRINT QUALITY

The award-winning **iFoil-L Hot Foiling System** is an in-line option for all the JetVarnish 3D Evolution models. It produces digital and variable embellishments such as fine lines and detailed texture effects. This allows quick and easy production of foil stamping and embossing jobs with high profitability, flexibility, and ease of use.

Create exquisite print applications to achieve spectacular and distinctive effects within a 100% digital process:

- Variable Data Foiling (VDF) with 2D or 3D coating, embossing from 7 - 232 micron thickness
- Digital Hot Foil Stamping supports multiple-colored foils applied in one pass (up to 5 colours)
- Foil on foil and Spot UV on foil to create dramatic effects



## MAKE AN IMPACT WITH LARGER FORMATS



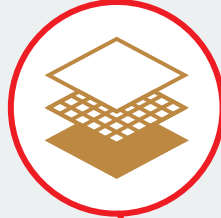
JETvarnish 3D Evolution delivers dynamic performance for the most demanding applications which are commonly found in packaging printing. It provides quick turnarounds and short-runs, produce customized and high-value printing applications that are widely used in today's commercial printing environment.

- Larger formats, three different widths:
  - 52 x 120cm (20" x 47")
  - 64 x 120cm (25" x 47")
  - 75 x 120cm (29" x 47")
- Special visual and tactile effects
- High quality and support specialty substrates
- Packaging printing (wine, shoes, fashion accessories, cosmetics and more)
- Commercial printing (general print collaterals, wall calendars, invitation cards and more)
- Publishing (photo book, magazines, book covers, customize book covers and more)

# YOUR ADVANTAGES WITH THE JETVARNISH 3D EVO & IFOIL-L

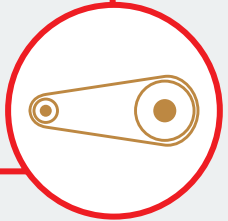
## CORONA SURFACE TREATMENT SYSTEM

- Optimize varnish adhesion on complex printed substrates
- Modify the surface tension
- Improve the printability for wide variety of materials
- Save time and reduce cost on lamination process



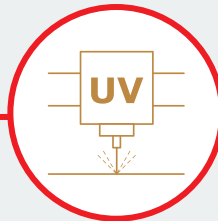
## EXPANDABLE SYSTEM FORMAT

- Available in 3 different widths:
  - 52 x 120 cm
  - 64 x 120 cm
  - 75 x 120 cm
- Upgradeable with EVO  
Extension kits:
  - 64 x 120 cm
  - 75 x 120 cm



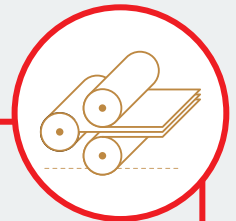
## ENVIRONMENTALLY FRIENDLY

- Enhanced UV protection with lower energy consumption
- Reduced paper, varnish, and electrical consumption
- No cleaning in-between jobs
- Less material waste
- No plates, screens, and dies



## NEW PALLET STACKER

- Easy pallet unloading
- Simple production workflows
- Supports sheets up to size 75x 120 cm



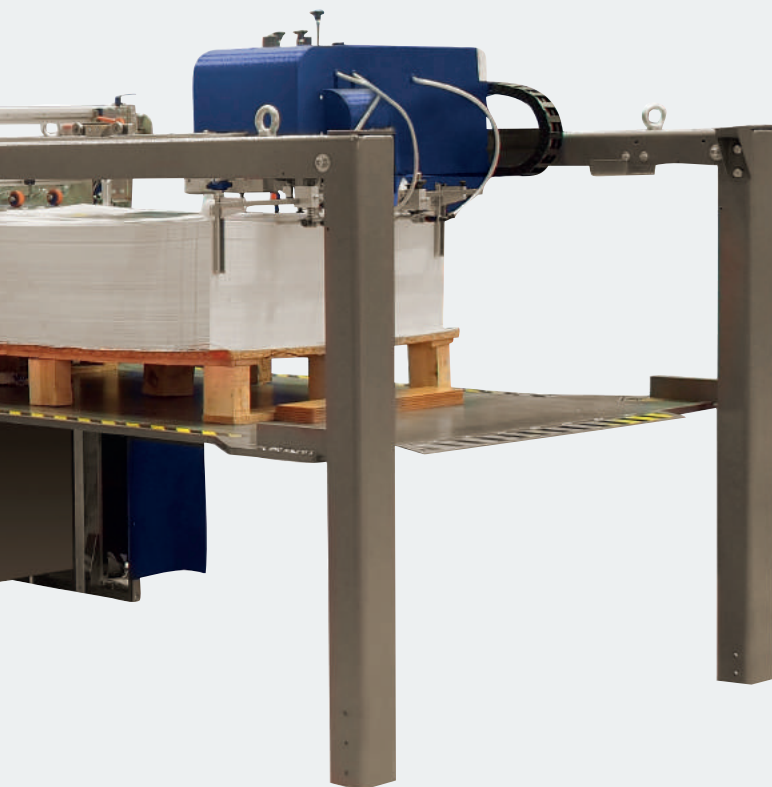
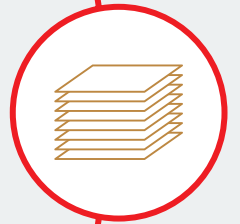
## INNOVATIVE SOFTWARE SUITE

- Job Cost calculator for varnish consumption
- Workstation image editor to edit graphic files
- Job Manager to manage print jobs
- Save time and improve efficiency



## REVOLUTIONARY AIS SMART SCANNER

- High precision for every print job
- Reduce more than 80% of setup time
- Fully capable with Variable Data Finishing (VDF) jobs
- Minimizes wastage costs
- Adjusts to print defects on-the-fly



## NEW SHEET FEEDER

- High capacity feeder for paper stack up to 60cm height for 75 x 120cm sheets
- Approx. 4,000 sheets at 135gsm



## VARNISH AND HOT FOILING

- Digital Spot UV coating embellishment
- Variable Data Foiling (VDF) emboss up to 232 microns thickness
- Foil on foil and Spot UV on foil to create dramatic effects
- No cleaning in-between jobs
- No plates, screens, and dies



# SYSTEM SPECIFICATIONS

## JETVARNISH 3D EVOLUTION

<b>Printing technology</b>	Exclusive MGI inkjet engine technology Drop-on-Demand (DoD) inkjet application Piezoelectric print heads in single pass printing	<b>In-line UV dryer</b>	“On-the-fly” drying & curing via integrated UV lamps
<b>Coating thicknesses</b>	Depending on the print file and 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.	<b>Maintenance &amp; remote technical support</b>	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)
<b>Production speed</b>	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	<b>Operator panel Options</b>	Integrated user-friendly LCD touchscreen Options 64 cm Evo Kit for Upgrade Enhancement Option or later update for printing of up to 64 x 120 cm sheet size 75 cm Evo Kit for Upgrade Enhancement Option or later update for printing of up to 75 x 120 cm sheet size VDP Kit 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 area
<b>Registration</b>	SmartScanner coupled with Artificial Intelligence (AIS) for a real-time fully automated sheet-to-sheet registration		
<b>Formats</b>	Min: 42 x 29.7 cm Max: 52 x 120 cm Options: 64 x 120 cm or 75 x 120 cm		
<b>Printable areas</b>	Max: 51 cm Options: 63 cm or 74 cm		
<b>Substrate thickness</b>	Min: 135 gsm and not less than 150 µm before printing & lamination Max: 800 gsm and not more than 800 µm before printing & lamination		
<b>Substrates</b>	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		
<b>Varnish on toner</b>	Spot 3D coat directly onto most** digital prints		
<b>UV coatings and capacity</b>	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		
<b>Automatic feeder</b>	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		
<b>Pallet stacker</b>	Supports sheets of up to 75 x 120 cm size on pallet packaging		
<b>Paper path</b>	100% flat paper path Vacuum feed system Air feed system Automatic double sheet detection		
<b>Front end system</b>	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		
		<b>iFOIL</b>	
		<b>Production speed</b>	Up to 2,400 B2+ sheets per hour (or up to 25 m per minute)
		<b>Formats</b>	75 x 120 cm
		<b>Hot foil stamping area</b>	Max: 74 x 119 cm
		<b>Substrate thickness</b>	Min: 18 µm Max: 200 µm
		<b>Foil rolls</b>	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: 1-inch as standard and 3-inch as option
		<b>Dry air</b>	Requires air without oil at 6 bar (87 psi) & 24 m3/h (14 cfm)
		<b>Dimensions (L x W x H)</b>	Up to 12.42 x 1.93 x 1.85 meter (Evo 75 full options)
		<b>Weight</b>	Approx. 3,334 kg
		<b>Electrical requirements</b>	40 kW (63 A) at 400 Volts - 50/60 Hz + 20 kW (32 A) at 400 Volts - 50/60 Hz
		<b>Temperature</b>	18 to 30°C
		<b>Relative humidity</b>	between 30 and 50% (no condensation)

**KONICA MINOLTA BUSINESS SOLUTIONS (M) SDN BHD**

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