KONICA MINOLTA

DIGITAL IMAGING SQUARE

INDUSTRIAL
PRINTING
EUROPEAN
SHOWROOM

INDUSTRIAL PRINTING EUROPEAN SHOWROOM, BRATISLAVA

CUSTOMER DEMO DEVICES

Giving Shape to Ideas

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AccurioJet KM-1

REVOLUTIONARY DIGITAL INKJET COLOUR PRINTING

AccurioJet KM-1, Konica Minolta's innovative inkjet press, meets the latest production demands and is a true alternative for short-run offset printing. Incorporating patented UV inkjet technology, traditional offset cut sheet feeding and superior media handling of up to B2+ size, AccurioJet KM-1 can easily handle quality jobs on a wide range of substrates. As there is no need to use special digital stocks or expensive coatings, AccurioJet KM-1 is a highly attractive proposition. Utilising your standard offset substrates and linking AccurioJet KM-1 via a hybrid workflow approach maximises your productivity.

Giving Shape to Ideas

AccurioJet KM-1

1. VERSATILE PRINT APPLICATIONS

– Print of up to 3,000 oversized sheets per hour
– Wide variety of new jobs such as heavy textured stock and folding packaging
– Larger sheet sizes: 3- and 4-panel brochures, pocket folders, posters, POS graphics, book covers

2. SUPERIOR IMAGE STABILITY

– Absolute consistency in paper feeding, registration, image quality and repeatability
– Outstanding front-to-back registration accuracy with gripper-to-gripper technology

3. OUTSTANDING IMAGE QUALITY

– Konica Minolta's high-resolution print heads and patented UV ink technology
– 1,200 x 1,200 dpi resolution
– Wide colour gamut and quality that matches offset
– UV ink provides excellent light fastness and scratch resistance

4. UNPARALLELED MEDIA HANDLING

– Sizes of up to 585 x 750 mm B2+
– Sheet thickness of up to 0.6 mm in simplex and 0.45 mm in duplex printing
– Wider range of offset coated and uncoated substrates, even textured papers
– Instantly drying UV ink results in no waiting time

5. TOP PRODUCTIVITY

– Up to 3,000 sheets per hour in simplex or 1,500 sheets per hour in duplex
– Jobs to be added to print queue via web, hotfolder or existing workflows

Giving Shape to Ideas

TECHNICAL SPECIFICATIONS

SYSTEM SPECIFICATIONS

Type	B2+ sheetfed UV inkjet press
Resolution	1,200 x 1,200 dpi
Ink	UV Ink
Number of colours	4
Printing speeds	3,000 sph (single-sided)
	1,500 sph (double-sided)
Sheet size	Up to 585 x 750 mm
Sheet thickness	0.06 – 0.6 mm (single-sided)
	0.06 – 0.45 mm (double-sided)
Dimensions	5,400 (W) x 3,000 (D) x 2,400 (H) mm
Machine weight	Approx. 9000 kgTechnical

– Inkjet UV ink developed by Konica Minolta for High-definition, Single-pass applications.
– The support and availability of the listed specifications and functionalities varies depending on operating systems, applications and network protocols as well as network and system configurations.
– Specifications are based on the information available at the time of printing and are subject to change without notice.
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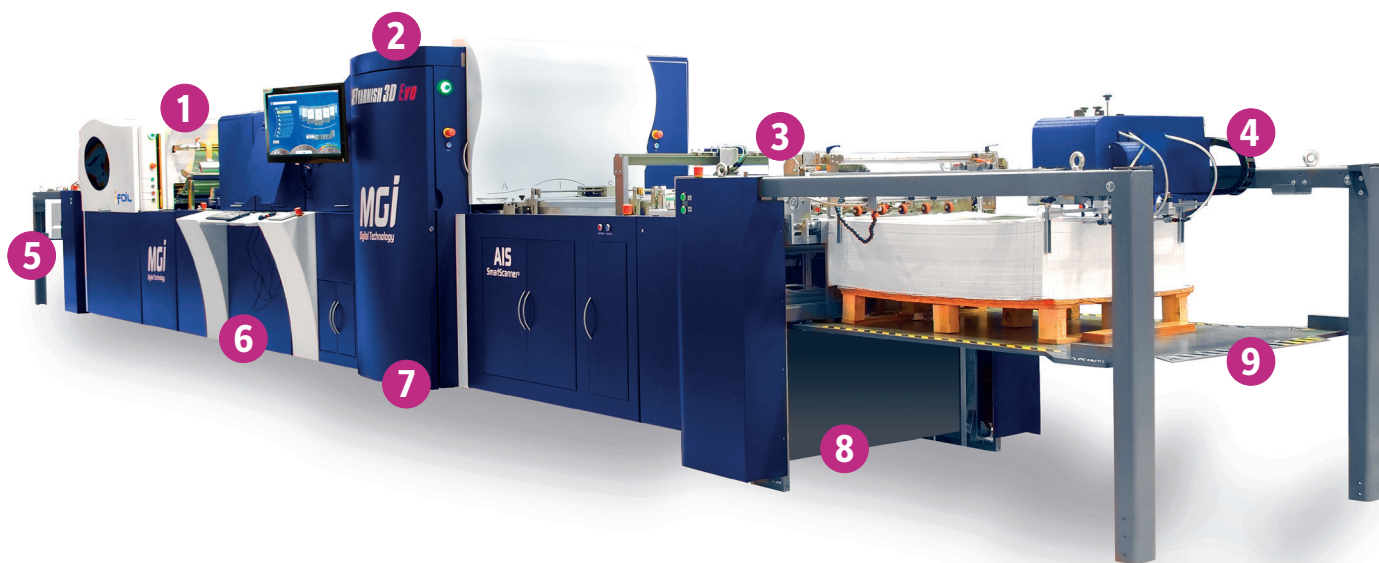
MGI JETvarnish 3D Evolution & iFOIL L

BRILLIANT FOIL EFFECTS ON DIGITAL AND OFFSET JOBS

If you are looking into differentiating and upgrading your services, go for the MGI JETvarnish 3D Evolution as the ideal solution for digital and offset print providers. Turn plain printed jobs into remarkable and appealing prints by spot coating digital and offset prints, highlighting defined areas, or adding tactile 3D effects with our digital spot UV coating device MGI JETvarnish 3D Evolution. And by combining it with the inline hot-foiling module, you'll achieve an even more glamorous finish.

Giving Shape to Ideas

MGI JETvarnish 3D Evolution & iFOIL L

1. VARNISH AND IN-LINE HOT-FOIL STAMPING

– All MGI JETvarnish 3D Evolution models can be combined with an inline hot-foiling solution
– For quick and easy production of foil stamping jobs
– For digital and variable varnish and foil embellishments
– For prototyping as well as high-volume productions

2. INNOVATIVE SOFTWARE SUITE

– Suite includes cost calculator, workstation image editor and reprint utility
   – Cost calculator for varnish consumption and cost calculation
   – Spot varnish editor is a graphical tool that allows editing files directly at the workstation
– Saves time and improves efficiency

3. REVOLUTIONARY AIS SMART SCANNER REGISTRATION SYSTEM

– Automatic varnish and hot foil registration system
– Eliminates more than 80% of the setup time spent on the registration adjustment process
– No drop in speed
– Automatically calculates the need for adjustment and applies it without operator intervention

4. TACTILE AND EMBOSSING EFFECTS

– Multiple colour foil effect
– Variable data foiling (VDF) with 2D/3D effect
– Foil over foil effect
– From 3 to 232 microns (µm)

5. NEW PALLET STACKER

– For easy pallet unloading
– For simple production workflows

6. EXPANDABLE INKJET SYSTEM FORMAT

– Designed to grow with your business
– Availability in three different widths that can be upgraded on demand for increased productivity:
   – 52 x 105 cm
   – 64 x 120 cm
   – 75 x 120 cm
– Upgradable with EVO Extension Kits: 64 x 120 cm; 75 x 120 cm

7. EASE OF USE

– MGI JETvarnish 3D Evolution is not a push button press, but you will quickly understand how the device works
– When using compatible media and foil, all operators need to do is set the appropriate speed and temperature

8. 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 with printable width of 75 cm enabled
– Up to 2,291 ISO B1 sheets per hour
– For high-volume productivity

9. ECO FRIENDLINESS

– Enhanced UV protection with lower energy consumption than traditional UV systems
– Automatic inkjet head cleaning system avoids manual cleaning between jobs
– No make-ready
– No plates
– No screens
– No dies
– Less wasteDigital

Giving Shape to Ideas

TECHNICAL SPECIFICATIONS

SYSTEM SPECIFICATIONS - MGI JETVARNISH 3D EVOLUTION

Printing technology	Exclusive MGI inkjet engine technology
	Drop-on-Demand (DoD) inkjet application
	Piezoelectric print heads in single pass printing
Coating thicknesses	Depending on the print file and substrate used, the coating thickness can vary from a traditional flat spot UV coating of 3 μm up to 232 μm for 3D raised texture effects and a tactile finish
Production speed	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
Registration	SmartScanner coupled with Artificial Intelligence (AIS) for a real-time fully automated sheet-to-sheet registration process
	No crop marks required
Formats	Min: 42 x 29.7 cm
	Standard: 52 x 105 cm
	Max: 52 x 120 mm with optional pallet feeder and stacker
	Options: 64 x 120 cm or 75 x 120 cm
Printable areas	Max: 51 cm
	Options: 63 cm or 74 cm
Substrate thickness	Min: 135 gsm and not less than 150 μm before printing & lamination
	Max: 800 gsm and not more than 800 μm before printing & lamination
Substrates	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
Varnish on toner	Spot 3D coat directly onto most digital prints
UV coatings and capacity	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
Automatic feeder	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
Pallet stacker	Supports sheets of up to 75 x 120 cm size on pallet packaging
Paper path	100% flat paper path
	Vacuum feed system
	Air feed system
	Automatic double sheet detection
Front end system	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
In-line UV dryer	"On-the-fly" drying & curing via integrated UV lamps
Maintenance & remote technical support	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)
Operator panel	Integrated user-friendly LCD touchscreen

PRODUCT SPECIFICATIONS - IFOIL L

Production speed	Up to 2,300 B2 landscape sheets per hour
Formats	Up to 75 x 120 cm
Hot foil stamping area	Max: 74 x 119 cm
Substrate thickness	Min: 150 μm
	Max: 600 μm (standard), 800 μm (optional)
Foil rolls	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 Change for: 1 inch as standard and 3 inches as option
Dry air	Requires air without oil at 6 bar (87 psi) & 24 m3/h (14 cfm)

PRODUCT SPECIFICATIONS - MGI JETVARNISH 3D EVOLUTION + IFOIL L

Dimensions (L x W x H)	Up to 12.72 x 1.86 x 1.84 meter (Evo 75 full options)
Weight	Approx. 4,524 kg
Electrical requirements	40 kW (63 A) at 400 Volts - 50/60 Hz + 20 kW (32 A) at 400 Volts - 50/60 Hz
Temperature	18 to 30°C
Relative humidity	between 30 and 50% (no condensation)

OPTIONS

Corona1/2 substrates treatment module	In-line system to optimise varnish adhesion on complex printed substrates
Variable Data Printing (VDP)	Full variable data (text, graphic, image) for both 2D/3D spot coating and hot foiling areas
	Integrated barcode (1D/2D) reader system & controller
	Raster Image Processor (RIP) as an option
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

– The support and availability of the listed specifications and functionalities varies depending on applications as well as system configurations.
– The stated life expectancy of each consumable is based on specific operating conditions such as page coverage for a particular page size. The actual life of each consumable will vary depending on use and other printing variables including page coverage, page size, media type, continuous or intermittent printing, ambient temperature and humidity.
– Some of the product illustrations contain optional accessories.
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Giving Shape to Ideas

AccurioWide 160

KONICA MINOLTA IS GOING WIDE WITH INKJET

If you've been looking to combine rigid and flexible roll print jobs within one printer, the Accurio Wide hybrid UV LED wide format printer series is perfect for you. We offer two models so you can select the one that suits your needs: AccurioWide 160 at a media width of 1.6 meters; Its superior image quality and high productivity for outdoor and indoor job applications will impress your most challenging, quality-minded customers. The printer is equipped with UV LED lamps that allow you to print on a wider range of media – while simultaneously saving energy, time and costs. The 4-color plus white ink configuration creates even more possibilities for printing on transparent material for backlit applications or for printing white as a spot color. The 6-color ink configuration offers a larger color gamut, giving you the capability to print those hard-to-hit colors. The end result is a versatile printer that helps you increase your job applications — and grow your business.

Giving Shape to Ideas

AccurioWide160

1. INFLATABLE AIRSHAFT

Ensures that the shuttle moves flawlessly, providing accurate droplet placements.

2. SHUTTLE SAFETY SENSORS

Prevents recessed print heads from touching the substrate and getting damaged.

3. MEDIA HANDLING

Loading media is a smooth and accurate process thanks to automated features of the media registration bar and the head height adjustment. The automatically controlled vacuum system consists of two to four zones, delivering an equal vacuum suction to ensure flawless media transport, producing accurate print results time and time again.

4. IONIZATION BARS

Ionization bars are mounted on the carriage, removing electrostatic charges on the substrate material. This ensures optimum and accurate ink droplet placement.

5. LED LAMPS

Air-cooled UV LED lamps provide a huge savings on energy consumption. Due to the minimal energy output, they're ideal for thermal sensitive materials such as thin film, self-adhesive sheets and stretched PVC materials.

6. INK MONITORING

The automatic ink refill system monitors UV ink levels. The ink refilling system can be easily accessed, enabling a spotless refill of your ink reservoirs. The white ink is managed by a fully separate system. The tank is equipped with a stirring mechanism to keep the ink properly mixed at all times.

7. OPERATOR INTERFACE

The graphic user interface (GUI) is located on a convenient swivel-arm with a mounted touchscreen. Printed files are spooled, viewed and stored by an internal bitmap server with a hard drive capacity of 1 TB for rasterized images that ensures fast spooling and secure transfer of large amounts of data.

8. INFLATABLE AIRSHAFT

In the roll-to-roll mode, inflatable airshafts on both the unwinding and winding side, as well as the media tension roller on the rewinding side, assure perfect tension of the materials for wrinkle-free printing. Standard on the AccurioWide 200; an option for the AccurioWide 160.

Giving Shape to Ideas

TECHNICAL SPECIFICATIONS

PRINTING SPECIFICATIONS – RIGID MEDIA

Max. width	165 cm
	160 cm with borderless printing
Max. length	3.2 m – 2 small and 2 large rigid tables
	(2 rear and 2 front)
Thickness	Min. 1 mm
	Max. 45 mm

PRINTING SPECIFICATIONS – FLEXIBLE MEDIA

Max. width	165 cm
Min. thickness	0.2 mm

PRINT SPEED

Draft mode	Up to 63 m^2/hr
Express mode	44–54 m^2/hr
Production mode	Up to 28 m^2/hr
Standard mode	13–17 m^2/hr
High-quality mode	Up to 7 m^2/hr

PRINT HEADS AND INK

Print heads	KM1024i print heads
UV ink channels CMYK + 2 white	CMYK + 2 white or CMYKLcLm

IMAGE AND TEXT QUALITY

High quality	Up to 720 x 1,440 dpi
Text quality	Positive: 4 points
	Negative: 6 points

ENGINE DIMENSIONS AND WEIGHT

Main unit dimensions (H x W x D)	166 x 391 x 155 cm
Main unit weight	1,020 kg

SYSTEM INTEGRATION RIP / WORKFLOW SOFTWARE

	Integrated production solution with AccurioPro WideDirector / 3rd party RIP integration is possible

EXTENSION TABLES

Large extension tables (H x W x D)	Optional: 2 tables per set
	Folded: 106.7 x 168.5 x 79.9 cm
	Unfolded: 106.7 x 168.5 x 181.9 cm
	Weight: 80 kg each table

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Harris&Bruno ExcelCoat ZR

H&B EXCELCOAT ZR FLOOD COATER

The fully automated ExcelCoat ZR is a workhorse of a machine, built to shine in demanding production environments. With separate coating/wash-up functions for each coating chemistry, the ZR is ideal for printers routinely switching between UV, AQ & Primer.

- Chamber/Anilox Metering System
- Dedicated coating circuits equals no cross contamination
- Up to 50 saved jobs
- Optional Corona Treatment Unit
- High Pile Feeder and Stacker

- Offline or Inline (with infeed bridge)
- Ideal for B2 format (B1 format with extended feeder and stacker)
- Integrated Remote Support System
- H&B service and support available 24/7 worldwide

Giving Shape to Ideas

Harris&Bruno
ExcelCoat ZR

1. PALLET-ACCESSIBLE HIGH PILE FEEDER

2. CHAMBER/ANILOX COATING STATION

3. CENTRALIZED PLC/ TOUCH SCREEN

4. COATING CIRCULATOR WITH AUTOMATED WASH-UP

5. FULL-LENGTH VACUUM CONVEYOR

6. MOVEABLE IR WITH QUARTZ LAMPS & AIR KNIVES

7. UV SYSTEM

8. PALLET-ACCESSIBLE HIGH PILE STACKER

Giving Shape to Ideas

TECHNICAL SPECIFICATIONS

SHEET SPECIFICATIONS

Max. Coating Width	30 in (762 mm)
Min. Sheet Size (Hand-Fed)	6 x 6 in (152 mm x 152 mm)
Max. Sheet Size (Machine-Fed)	30 x 30 in (762 x 762 mm)
Min. Sheet Thickness	UV: min. 0.006 in/0.15 mm caliper at reduced speed
	(approx. 65# cover/175 gsm coated)
	AQ: min. 0.008 in/0.20 mm caliper at reduced speed
	(approx. 80# cover/200 gsm coated)
Min. Sheet Thickness	UV: min. 0.003 in/0.075 mm caliper at reduced speed
* With TS 2.0 Thin Substrate System	(approx. 70# text/90 gsm coated)
	AQ: min. 0.004 in/0.10 mm caliper at reduced speed
	(approx. 80# text/115 gsm coated)
Max. Sheet Thickness	0.024 in (0.61 mm)

SPEED SPECIFICATIONS

Max. Speed of Standard Coater	220 feet per minute (67 meters per minute)
	Note: Specialized coatings/substrates may require reduced speeds
Landscape Sheets (Machine-Fed)	
8.5 x 11 in (215 x 279 mm)	12,700 sheets per hour
12 x 18 in (305 x 457 mm)	9,900 sheets per hour
14 x 21 in (356 x 533 mm)	8,800 sheets per hour
21 x 30 in (533 x 762 mm)	6,300 sheets per hour
28 x 40 in (711 x 1,016 mm)	5,000 sheets per hour
Portrait Sheets (Machine-Fed)	
28 x 40 in (711 x 1,016 mm)	3,600 sheets per hour

SET-UP & CLEAN-UP TIME

Automated Set-up Time	5 Minutes
Automated Wash-Up Time	10 Minutes

COATING SPECIFICATIONS

Types of Coating	Gloss UV, High Gloss UV, Matte UV, Specialty UV, AQ, Primer

POWER REQUIREMENTS

Power	USA: 480 VAC | Three Phase
	Europe/APJ: 400 VAC | Three Phase
Air	8 cfm at 90 psi (225 l/min at 6 bar)
Venting	12 in (305 mm) Exhaust duct to outside

FLOOR SPACE REQUIREMENTS

ZR30	Base Coater: 12 ft L x 4.4 ft W (3.66 x 1.34 m) 5000 lbs (2268 kg)
	Coater & Feeder: 17 ft L x 4.4 ft W (5.18 x 1.34 m) 6800 lbs (3084 kg)
	Coater, Feeder & Stacker: 21.5 ft L x 4.4 ft W (6.55 x 1.34 m)
	7800 lbs (3538 kg)

* All ExcelCoats should have 3 ft (1 m) working space around all sides.

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