



KONICA MINOLTA

29 inch sheet-fed UV inkjet press

AccurioJet KM-1e

ONE FOR ALL IDEAS

RETHINK PRINTING VALUE



Giving Shape to Ideas

ONE FOR ALL IDEAS

Superb media-compatibility and productivity
Compatible with hybrid workflows
The outstanding image quality and reliability
open up the potential for new printing services.

29 inch sheet-fed UV inkjet press

AccurioJet KM-1e



Major benefits to customers

Providing unlimited print services

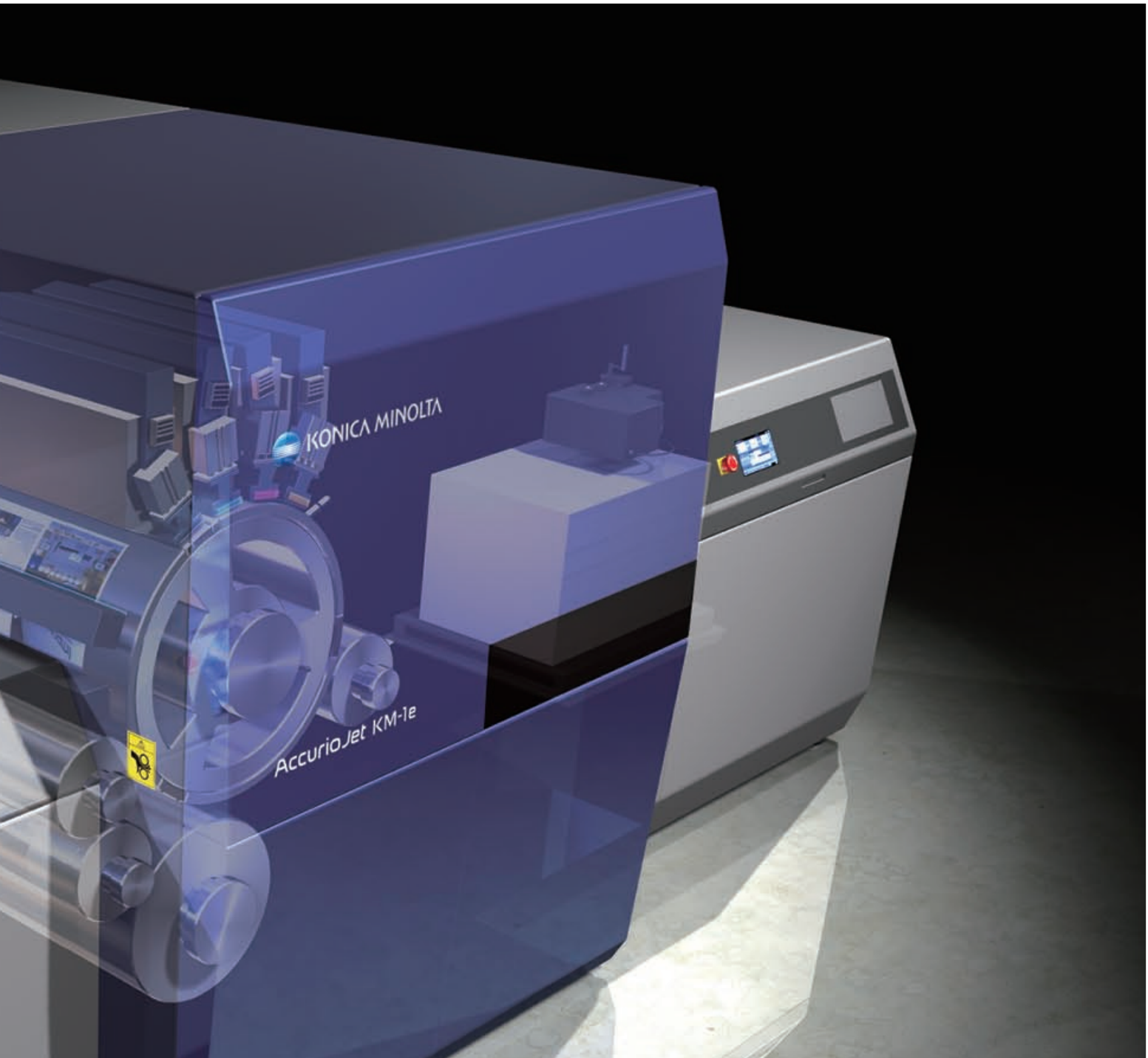
- Wide range of paper thickness: 0.06 to 0.6 mm
- Printable on various media: Clear film, metallic media, canvas, embossed paper, etc.
- No pre-coating required for normal papers

Technologies that support business expansion

- Combination of Konica Minolta's print head and UV ink
- Inline sensor for consistent and reliable print result
- Media transport system similar to that of offset press

High productivity for the shortest turnaround

- High productivity of 3,000 sheets/hour
- Automatic duplex printing with no waiting time for ink drying
- Flexible imposition by wide media size of 585 × 750mm
- Large capacity media handling for high volume printing



Superb reliability & consistency

- Superb colour consistency
- Greater registration accuracy
- Inline sensor for image quality control
- Offset printing system-equivalent paper handling technologies

Outstanding image quality

- High image quality with 1,200 × 1,200 dpi output resolution
- FOGRA-certified wide colour gamut
- Sharp text quality
- No damage to paper

Excellent operability for efficient workflow

- IJ Manager, an enhanced data processing system
- Easy incorporation into existing offset workflow
- Inline interface for third party post-press equipment
- Newly adopted tape inserter

Providing unlimited print service

AccurioJet KM-1e is compatible with various media such as translucent, metallic, coloured and plastic types by newly adopted media sensors. Now, the advantages of utilization of wide media compatibility of UV ink enables customer to expand their printing services.

Points

- Wide range of paper thickness: 0.06 to 0.6 mm
- Printable on various media: Clear film, metallic media, canvas, embossed paper, etc.
- No pre-coating required for normal papers



0.06MM THIN MEDIA

Capable of printing on thin paper without curling or wrinkling caused by swelling and drying processes required by aqueous inkjet systems.



0.6MM THICK MEDIA

Thick paper printing capability expands the range of printing applications to include items such as packages, tags, table-top calendars or menus, direct-mail and simple photo albums.



TRANSLUCENT MEDIA

Translucent media printing capability creates new printing services such as backlit posters and signage printing with high image durability.



SYNTHETIC MEDIA

Restaurant menus without lamination, maps, figures and documents for outdoor use can be easily created using the unique UV inkjet technology.



TEXTURE & EMBOSSED MEDIA

Business cards, shop cards, invitations, certificates, etc. Combination of UV ink and the non-contact inkjet printing method realizes the best results.



CANVAS

High quality printing on canvas is also possible with the UV inkjet system.



METALLIC & COLOURED MEDIA

The metallic and coloured media printing capability expands printing services for items such as business cards, shop cards and packages.



CLEAR FILM

The clear plastic and film printing capability can be used to add applications such as specialty packages and clear folders as new printing services.

Quick entrance to new business with new media

Newly adopted media sensors enable the use of a wide variety of media and provide powerful support for expansion of the range of print service.

Metallic paper

Embossed paper

Canvas

Coloured paper



Synthetic media

Plastic media

Translucent media

Clear film

Technologies that support business expansion

AccurioJet KM-1e incorporates Konica Minolta's unique UV ink and inkjet head. Various technologies have been adopted to maximise the features of the inkjet system and support customers' business expansion.

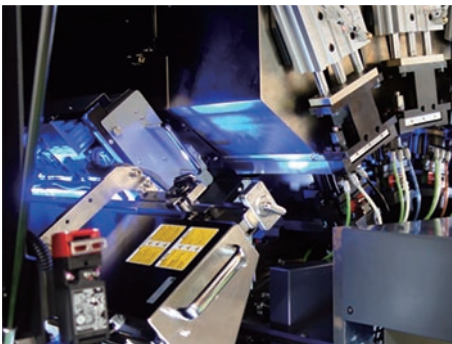
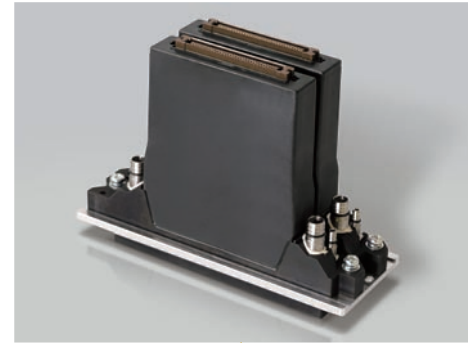
Points

- Combination of Konica Minolta's print head and UV ink
- Inline sensor for consistent and reliable print result
- Media transport system similar to that of offset press



UV INKJET INK

UV ink, which enables printing on various media including offset stock without the need for pre-coating. Light-curable UV ink reduces damage to the paper, which is often the case with heat drying, thus consistently providing high-quality prints.



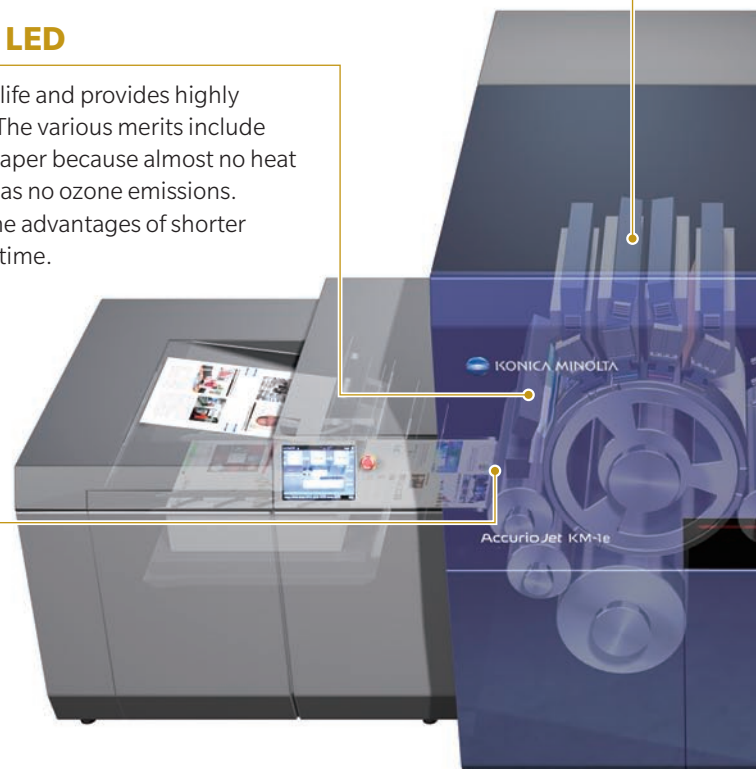
LONG LIFE UV LED

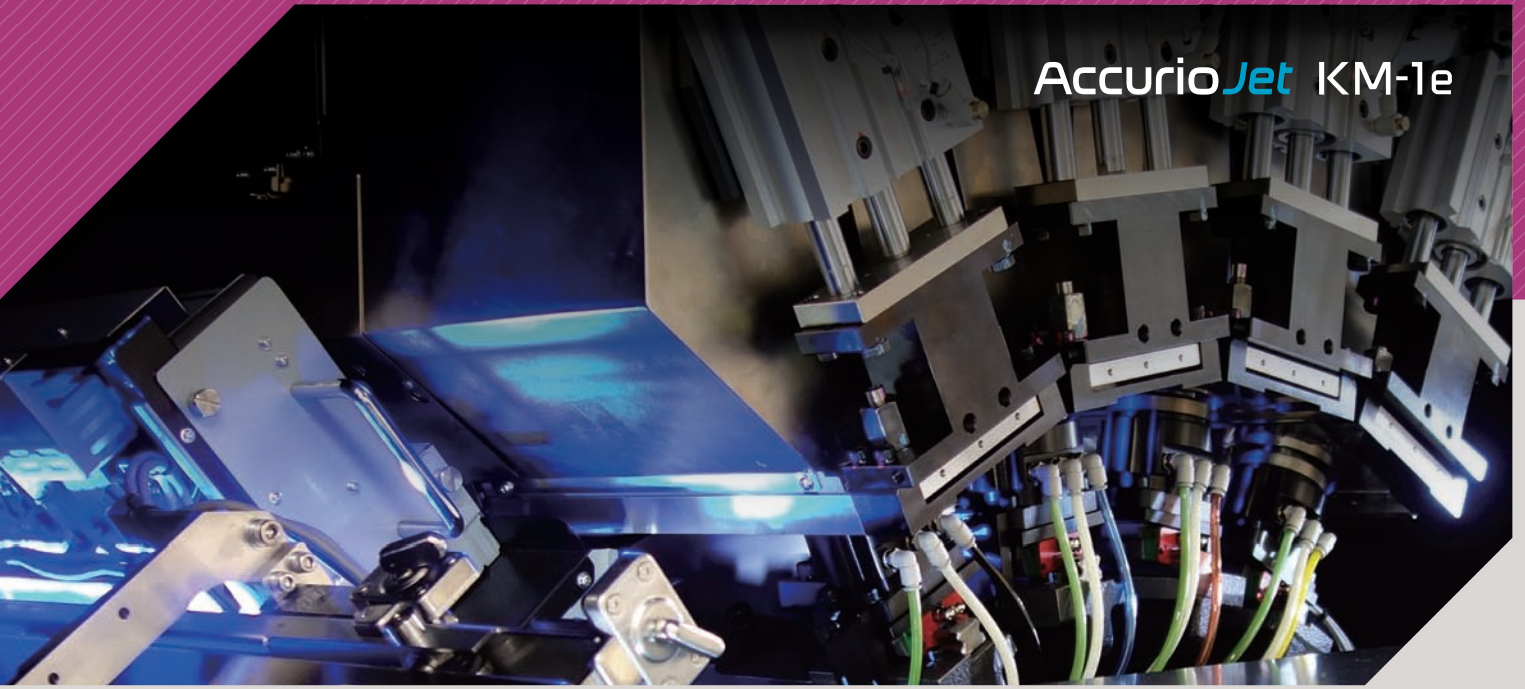
UV LED has a longer life and provides highly consistent UV light. The various merits include less damage to the paper because almost no heat is generated, as well as no ozone emissions. LED-UV also offers the advantages of shorter heating and cooling time.



INLINE SENSOR

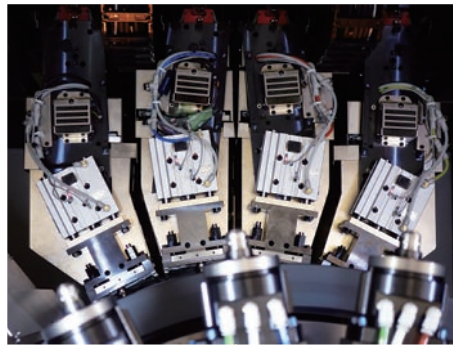
Detection of imaging errors by inline sensors ensures consistently high-quality image output.





HIGH PRECISION INKJET HEAD

High-density heads with 600 nozzles per inch. Two of these are incorporated into a module to achieve high resolution output of 1,200 dpi.



INKJET HEAD MODULE

The print bar is composed of an array of high-resolution/high-frequency heads. High quality images are reproduced in a single pass at speed as high as 3,000 sheets/hr.

HIGHLY STABLE PAPER TRANSPORT

KM-1e is equipped with an offset-equivalent transport mechanism including functions such as air blower, vacuum suction, dram suction, paper stretch suction and claw grip feeding to ensure unfailing stable paper transport.



NEW MEDIA SENSOR

Various new sensors are adopted for secure handling of new media such as transparent, metallic and coloured types to enable customers to expand their print services.



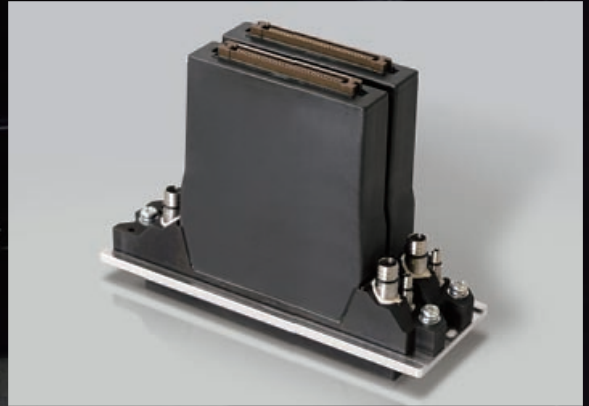
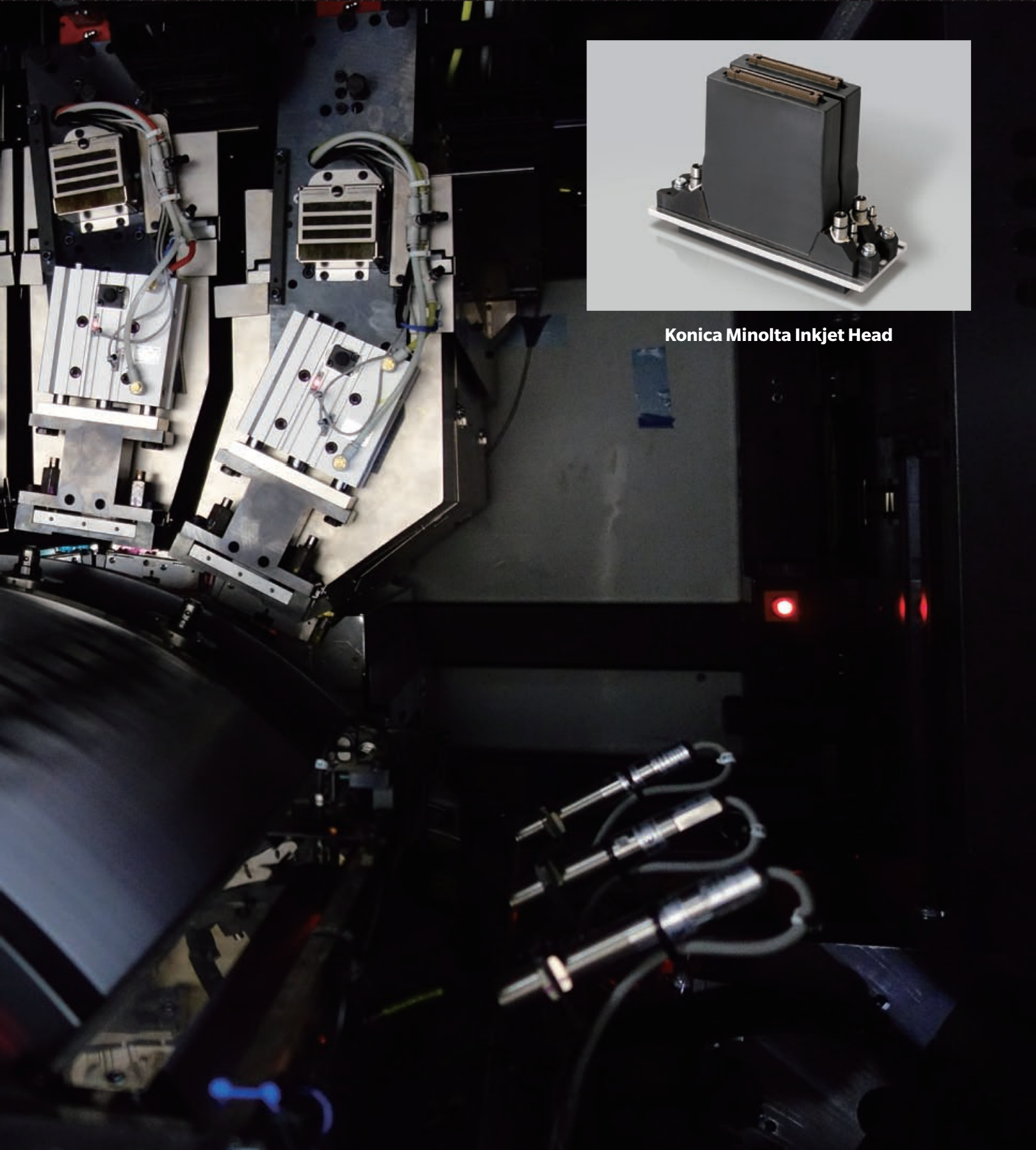
Konica Minolta's unique inkjet technologies

Konica Minolta has developed KM-1e, a press that incorporates a special UV ink, high-performance inkjet print heads and imaging technologies in addition to an image processing system.

Applying these proprietary technologies, Konica Minolta has realized "High Image Quality", "Flexibility", "Stability" and "High Productivity" essential to the functions of a production machine.

KM-1e offers new merits such as "the creation of new business", "strengthening of relationships with clients" and "rationalization of production processes and business".





Konica Minolta Inkjet Head

High productivity for the shortest turnaround

High productivity of 3,000 sheets/hour with the maximum paper size with the auto duplex printing function enables customers to provide the fastest delivery service.

Points

- High productivity of 3,000 sheets/hour.
- Automatic duplex printing with no waiting time for ink drying
- Flexible imposition by wide media size of 585×750mm
- Large capacity media handling for high volume printing



HIGH PRODUCTIVITY OF 3,000 SHEETS/HR.

Capable of output of 3,000 sheets/hour/simplex of the maximum paper size (585×750mm) and 1,500 sheets/hour in the automatic duplex printing mode.



AUTOMATIC DUPLEX PRINTING WITH NO DRYING TIME

Capable of automatic duplex printing with no drying time. Elimination of waiting time contributes to reduced overall production time.
(Auto duplex printing : 0.06 to 0.45mm thickness)



WIDER MEDIA SIZE IMPROVES FLEXIBILITY & PRODUCTIVITY

The wider B2+ size, 585×750mm, enables flexible imposition to achieve even higher productivity.

Maximum media size
585×750 mm

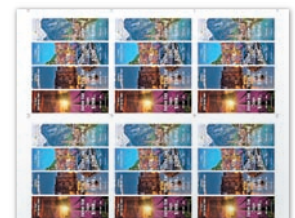
Common B2+: 530×750mm

KM-1e B2+: 585×750mm

Small size package



8.5×11in Letter size



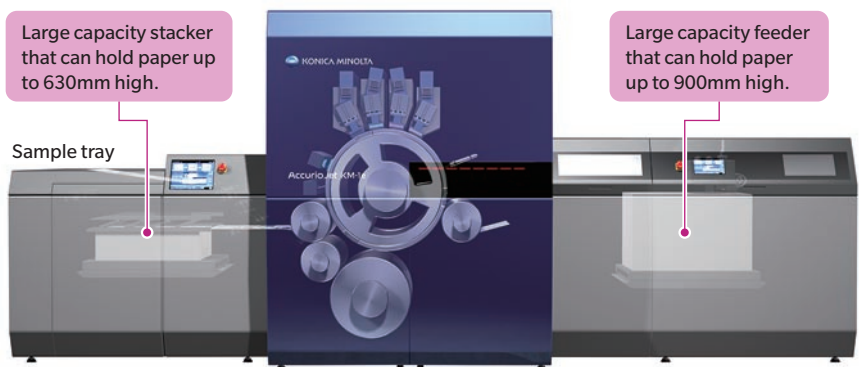


MACHINE DESIGN THAT MINIMISES DOWNTIME

The machine is designed to be maintained by the operator. This means reduced downtime caused by visits by service engineers, contributing to improved operating ratio.

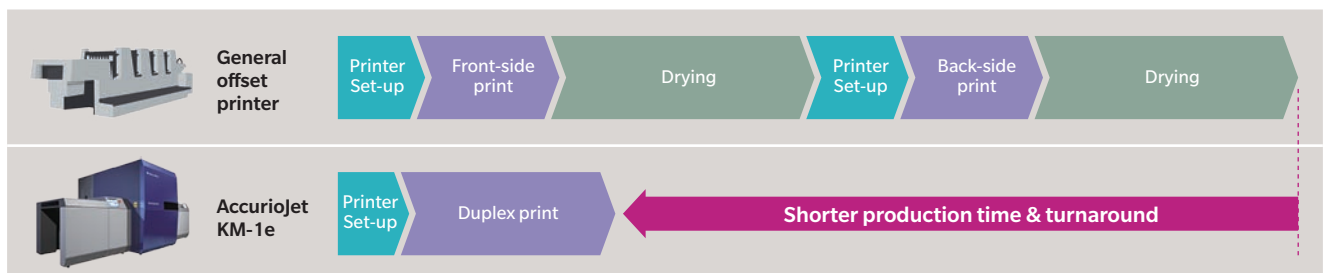
LARGE CAPACITY PAPER FEED / STACK SYSTEMS FOR HIGH VOLUME RUNS

The feeder can accept paper up to 900mm high and the stacker up to 680mm high. In addition, a sample tray is equipped for quality checks or small lot printing.



OUTSTANDING OVERALL PRODUCTIVITY FOR THE SHORTEST TURNAROUND

Elimination of the need to make and set plates in the press ensures shorter set-up time and the auto duplex printing capability realizes outstanding overall productivity.



Superb reliability & consistency

Reliably produces printed products of stable high quality.

AccurioJet KM-1e uses paper handling technology identical to that in an offset printer to ensure reliable and stable paper handling. In addition, the use of UV ink ensures highly-accurate registration and minimal nozzle clogging to deliver stable image quality.

Points

- Superb colour consistency
- Greater registration accuracy
- Inline sensor for image quality control
- Paper handling technologies identical to offset printing system



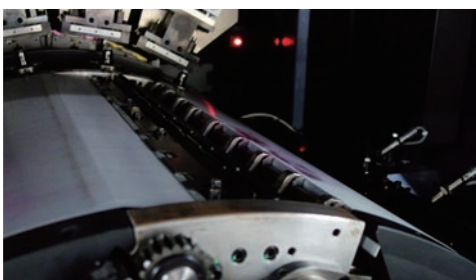
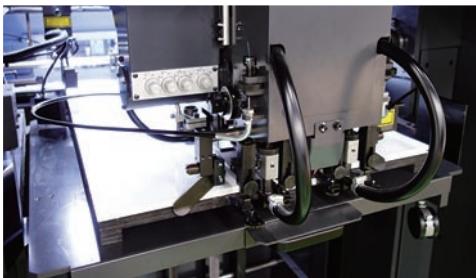
SUPERB COLOUR CONSISTENCY

Allows perfect colour matching of jobs with repeatable results within a tolerance of ΔE 1.5. This patented process ensures perfect inkjet operation, allowing jobs to be instantly moved to finishing, thus saving time and money.



GREATER REGISTRATION ACCURACY

The use of UV ink eliminates problems such as waviness or curling commonly occurring during processes such as thermal fixing and drying to achieve superb print quality and highly-accurate registration.



PAPER HANDLING TECHNOLOGY IDENTICAL TO OFFSET PRINTING

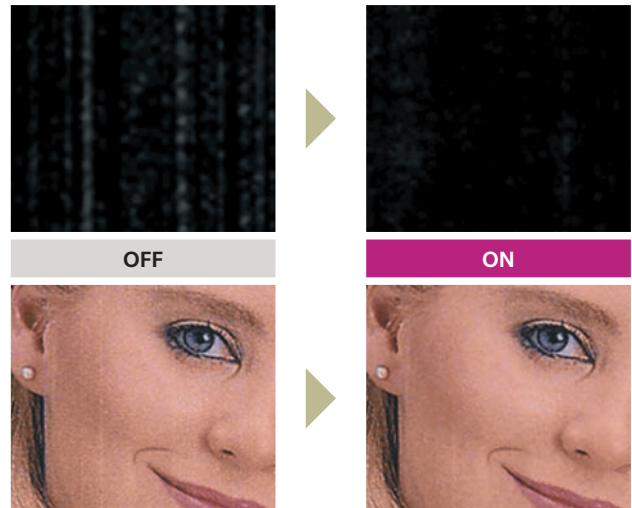
AccurioJet KM-1e is fully equipped with an offset-equivalent transport mechanism including functions such as air blower, vacuum suction, dram suction, paper stretch suction and claw grip feeding to ensure stable paper transport and highly accurate registration.



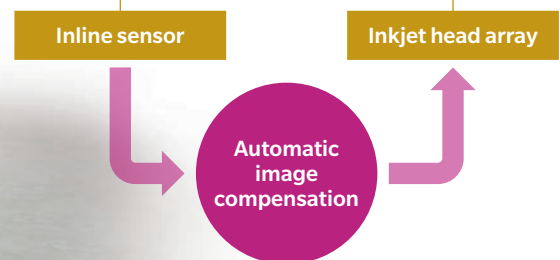


IMAGE QUALITY CONTROL BY INLINE SENSOR

AccurioJet KM-1e is furnished with an internal inline sensor that automatically detects and corrects image flaws. The inline sensor minimises image quality degradation caused by nozzle defects in the inkjet system.



Comparison of effects with inline sensors & image adjustment functions ON and OFF



Detection of defective nozzle and feedback to auto image correction function

High image quality for unlimited applications

KM-1e provides 1200dpi, the top-level image quality to enable unlimited commercial printing applications, including superb skin tone with less graininess and a natural gloss look difficult to reproduce using existing UV ink digital presses.



AccurioJet KM-1e



Outstanding image quality

New high-definition print heads provide top image quality of 1200 dpi to create effects such as superb skin tone with less graininess and a natural-gloss look.

Points

- High image quality with 1,200×1,200 dpi output resolution
- FOGRA-certified wide colour gamut
- Sharp text quality
- No damage to paper



1200×1200 dpi HIGH IMAGE QUALITY

Konica Minolta's cutting-edge inkjet print head, unique UV ink and half-tone processing technologies achieve 1200dpi high image quality.



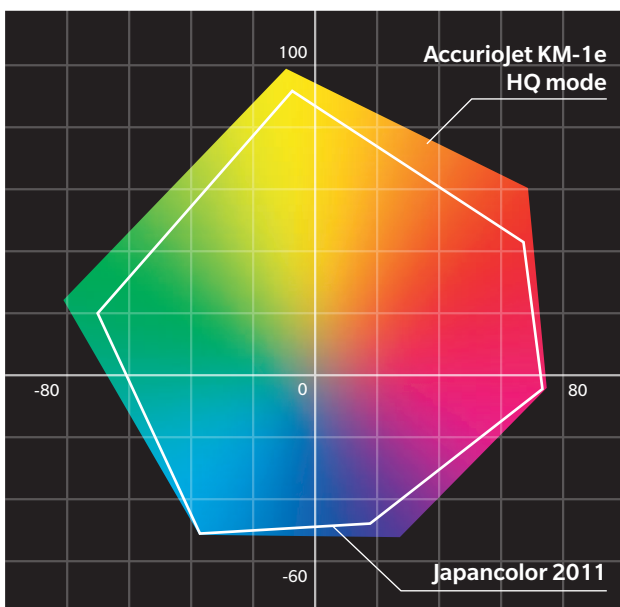
Edge processing OFF



Edge processing ON

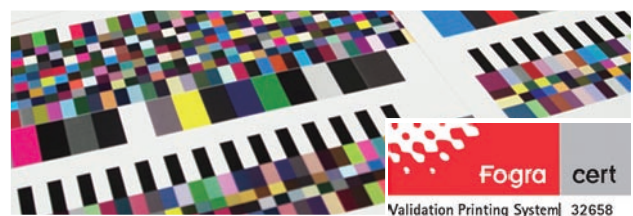
SHARP TEXT QUALITY

Konica Minolta's original proprietary font edge-processing technology realizes excellent text quality with sharpness and legibility even for small font sizes.



WIDE COLOUR GAMUT

The wide color gamut sufficient to cover Japan color standards ensures accurate colour reproduction.



WORLD'S 1ST FOGRA53 ACCREDITATION

Konica Minolta has become the world's first press manufacturer to achieve the 'robust' FOGRA53 profile certification. AccurioJet KM-1 achieved this accreditation after completing an exhausting testing program.



HIGHLY FUNCTIONAL / ACCURATE COLOUR MANAGEMENT SYSTEM

Use of color management software provides consistent color reproduction.

Color control items

| | | |
|---------------------------------|--------------------|---|
| Color adjustment (density adj.) | Calibration | Measures the print output from the device with colorimeter and creates data for color adjustment. |
| | Tone curve adj. | Edits the output curve vs input of CMYK densities and performs color adjustment. |
| RIP (color conversion) | Spot color | Adjusts the hue of spot colors or named colors in CMYK densities. |
| | Color substitution | Adjusts the hue of specific RGB or CMYK colors in CMYK densities. |
| | Profile management | Implements management of device profiles. Allows copying, editing, loading and exporting of profiles. |

ACCURATE REGISTRATION AND PRINT QUALITY

Use of UV ink helps avoid waving and curling of the paper often caused by heat fixing and drying required for aqueous inkjet systems and provides high quality prints with high registration accuracy.



OPTIMISED INK VOLUME TO MATCH PAPER AND PRINTING OBJECTIVES

In addition to the standard mode, two print modes are available for selection of coated paper that requires high quality image or uncoated paper that requires matte texture.



Excellent operability for efficient workflow

Enhanced data processing system “IJ Manager”, a system easily incorporated into existing offset workflows, newly developed interface for inline connection with various types of post-press equipment, newly adopted tape inserter to improve work efficiency in post-press operation.

Points

- IJ Manager, an enhanced data processing system enhanced
- Easy incorporation into existing offset workflows
- Inline interface for third party post-press equipment
- Newly adopted tape inserter

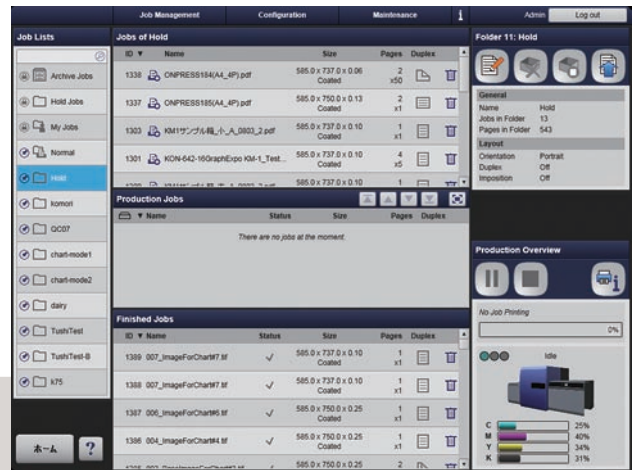
IJ MANAGER

The system incorporates a high-speed RIP for full VD processing, sensors to detect the nozzle jet status and an algorithm to compensate for defective nozzles on the fly.

Major functions of IJ Manager

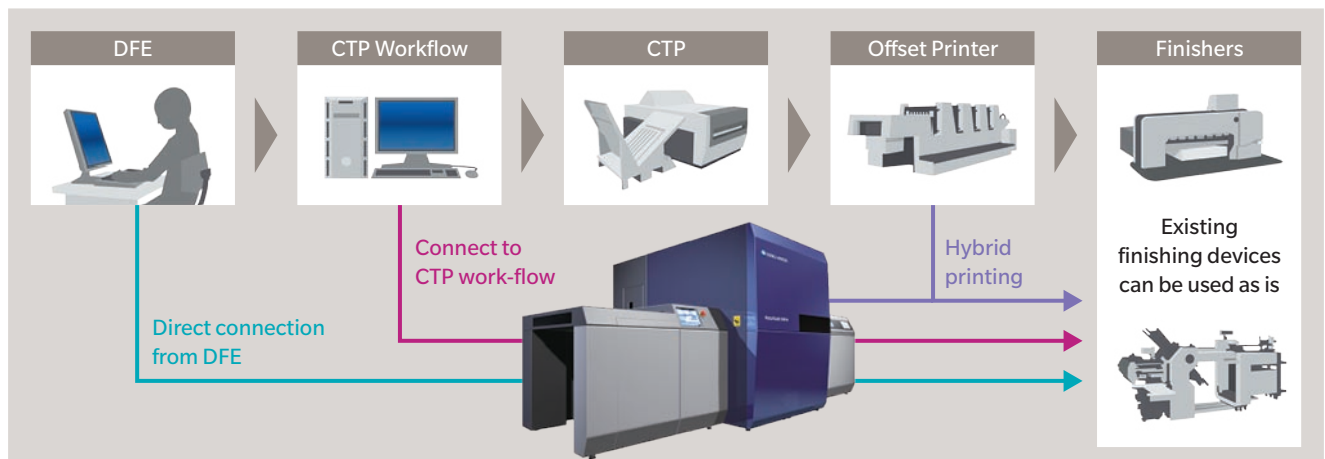
| | | |
|-------------------------|---------------------------------|-------------------------|
| Job management | Paper setting | Imposition |
| Support of Prinergy JDF | Colour management (ColorCentro) | PPML Ver.2.2 compatible |

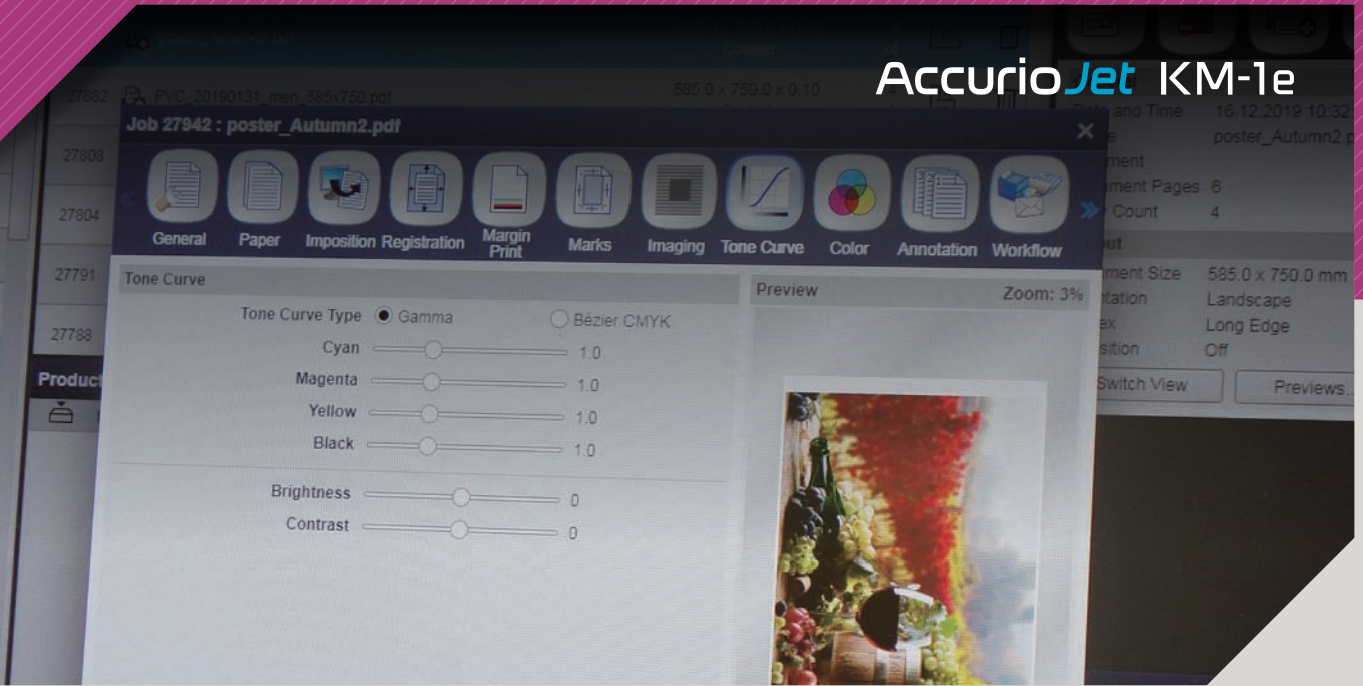
- Print Job Management (Job setting, Create folder or queue, Hot-folder, etc.)
- Execute print jobs (Normal print, Proof print)
- Paper registration (Paper profile, ICC profile, Device-Link profile, etc.)
- RIP • Show print status & machine status • IJ unit maintenance • Connect to IJ controller



SUPPORTS HYBRID PRINTING

KM-1e is capable of outputting prints receiving files from general DFE (Digital Front End) or CTP workflow RIP and supports hybrid workflows where the user can freely choose between offset printing and digital printing as required.





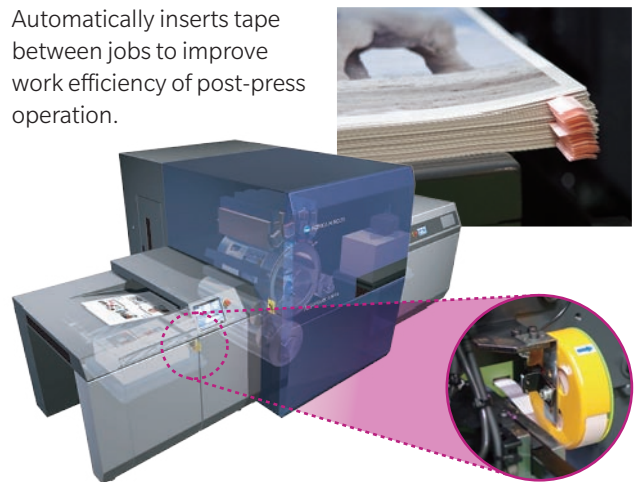
VARIABLE DATA PRINTING

Compatible with PPML 2.2, KM-1e helps to create new business not possible using offset printing.



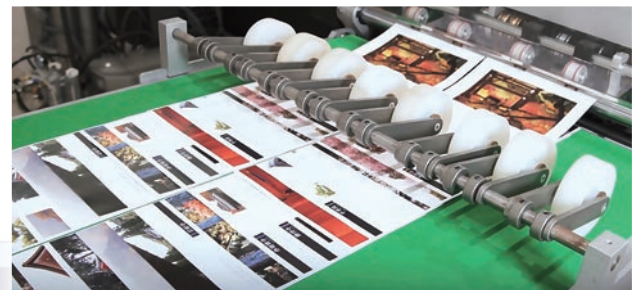
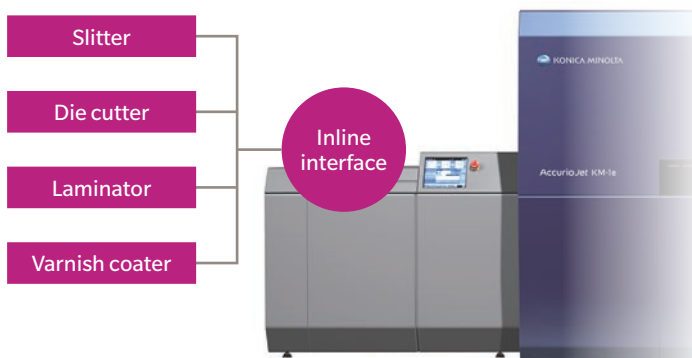
NEWLY ADOPTED TAPE INSERTER

Automatically inserts tape between jobs to improve work efficiency of post-press operation.



INLINE INTERFACE FOR 3RD PARTY POST-PRESS EQUIPMENT

Post-processing can now be completed in-line with a newly developed interface to improve work efficiency and facilitate short turnaround.



World of applications created with KM-1e

Package printing up to 0.6 mm thickness



Printing of paintings on canvas



Gift package motif printed on metallic media and clear film



AccurioJet KM-1e



Variable data printing for ticket numbering, etc.



Illuminated poster printed on translucent media



Booklet printing fully utilizing the auto duplex printing capability

Menu on tear-free synthetic media with no lamination



Large posters up to 585 x 750 mm wide



Plastic card printing



Business cards or shop cards with flexible imposition on large size paper



Gorgeous book cover or gift jacket with metallic and coloured media












AccurioJet KM-1e

Major Specifications

| | |
|------------------------------|--|
| Type | 29-inch Sheet-fed full colour UV inkjet digital press |
| Output resolution | 1,200 × 1,200 dpi |
| Ink | UV curable ink (4 colours / C, M, Y, K) |
| Print speed | Simplex printing: 3,000 sheets/hour Duplex printing: 1,500 sheets/hour |
| Paper size | Maximum : 585 × 750 mm |
| Max. printable area | Simplex printing: 575 × 735 mm Duplex printing: 575 × 730 mm |
| Paper thickness | Simplex printing: 0.06 to 0.6 mm Duplex printing: 0.06 to 0.45 mm |
| Paper type | Uncoated paper, Coated paper, Art coated paper, Coloured paper, Metallic paper, Transparency media, Plastic media, Canvas, Stone paper |
| Data format | PDF Ver. 1.7, PDF/X 1a.3.4.5, PDF/VT-1, TIFF Ver.6 compliant, PPML Ver.2.2 |
| Print mode | Rich (Japan color supported mode) Standard Economy (Ink saving mode) |
| Power source | 3 phase 200V 335A (50Hz/60Hz) |
| Device dimension (W × D × H) | Main body + Feeder + Delivery + Ink delivery unit: 5,369 × 2,947 × 2,325 mm |
| Device weight | Main body: Approx. 8,100 kg Ancillary facility: Approx. 2,000 kg |

* Specifications and functions listed in this catalog are subject to change without notice.

AccurioJet KM-1/KM-1e Partners

| | |
|--|---|
|  <p>Alwan Color Expertise A worldwide leader in color management, standardisation and process control software.</p> |  <p>Rollem International Provides rotary slitting, scoring, perforating collating and delivery systems plus the Insignia line of die cutting solutions.</p> |
|  <p>Harris & Bruno International A global provider of high performance printing & coating equipment.</p> |  <p>Tharstern Limited A market leading software company providing Management Information Systems to the printing, packaging and label industries.</p> |
|  <p>ITOTEC Co., LTD. The cutting machine maker with a near-100-year history of business experience.</p> |  <p>Ultimate TechnoGraphics Inc. Ultimate develops and distributes cutting edge technology to automate and facilitate imposition and finishing for the graphic arts industry.</p> |
|  <p>Opensoft Inc. Scissor Hands is an excellent artificial intelligence has brought evolution to cutting work. DaVinciDesigner is an online print 3D proofer for special embossed finishes and textures.</p> |  <p>GMP Co., Ltd. GMP is the technology oriented lamination and laminator manufacturing company based in South Korea. GMP has global sales and support capabilities.</p> |
|  <p>Motioncutter motioncutter® is a beautifully designed laser marking system to be used in the printing industries to cut, filigree cut, kiss cut, engrave, score, perforate and micro perforate.</p> | |

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Requirements for safe use

- Please read and follow the instruction manual to ensure safe operation.
- Only operate using appropriate power supply and voltage.
- Connecting the earth wire to an inappropriate place may cause explosion or electric shock. Please connect accordingly (Taiwan and the Philippines only).

Konica Minolta Business Solutions India Pvt. Ltd.

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