Superb paper-compatibility and productivity
Compatible with hybrid workflows
The outstanding image quality and reliability open up the possibilities of new printing services.

Combination of Konica Minolta’s Technologies and Know-how
Based on technologies it has amassed from its creation of digital printing, Konica Minolta has developed AccurioJet KM-1, a press that incorporates a new UV ink, high-performance inkjet print heads and system processing technologies. Applying these proprietary technologies, Konica Minolta has realised “high image quality”, “Flexibility”, “stability” and “high productivity” essential to the functions of a production machine.
The superb functions and reliability of AccurioJet KM-1 offers new merits such as “the creation of new business”, “strengthening of relationships with clients” and “rationalisation of production processes and business”.
Konica Minolta
29 inch sheet-fed UV inkjet press

AccurioJet KM-1 is furnished with a print bar mounted with an alignment of newly-developed high-definition high-frequency print heads. The inkjet system realizes high-speed output of 3,000 sheets/hour at a high image quality of 1200dpi. Print heads and parts can be replaced by the operator, contributing to improved productivity by cutting down time for service engineers to arrive.

A new UV ink has been developed exclusively for use with AccurioJet KM-1. Printing of a wide range of base materials, including offset paper, is possible with no pre-coating. Light-cured UV ink avoids paper problems caused by heat drying, and provides high accuracy of front-to-back registration. Our original technologies enable realization of a natural gloss finish.

Grip-to-grip technology ensures highly-accurate paper transportation.

In the duplex printing mode, maximum of 1,500 sheets/hour can be output. Duplex printing capability with a compact machine design is a major merit that can be realized only by a UV inkjet system that requires no drying process.

Large-volume paper ejection is possible up to height of 680mm. A sampling tray is also available.

Main Cylinder

Paper Feeder

Automatic duplex printing

LED UV Array

Ink is cured instantaneously by UV light using long-life ozone-free LEDs.

Inline Sensor

Inline sensor detects nozzle misfire or streaks and automatically corrects the image to ensure high and stable image quality.

Paper Ejector

Large-volume paper ejection is possible up to height of 680mm. A sampling tray is also available.

UV Ink

A new UV ink has been developed exclusively for use with AccurioJet KM-1. Printing of a wide range of base materials, including offset paper, is possible without pre-coating. Light-cured UV ink avoids paper problems caused by heat drying, and provides high accuracy of front-to-back registration. Our original technologies enable realization of a natural gloss finish.

Latest Print Head Design

System Construction Technologies

Newly-developed UV Ink

Paper handling technology
Konica Minolta’s newly-developed cutting-edge inkjet print head, newly-developed UV ink and half-tone processing, all dedicated for superb quality enables the achievement of 1200dpi high image quality.

Like the overwhelming beauty of a peacock with its tail feathers spread.

Newly-designed inkjet print head and newly-developed UV ink. Applying its amassed image processing technologies, Konica Minolta has realised image quality close to offset printing.

- **1200x1200dpi High Image Quality**
  Konica Minolta’s newly-developed cutting-edge inkjet print head, newly-developed UV ink and half-tone processing, all dedicated for superb quality enables the achievement of 1200dpi high image quality.

- **Sharp Text Quality**
  Konica Minolta’s original proprietary font edge-processing technology enables the realization of excellent text quality with sharpness and legibility even for small font sizes.

- **Natural Gloss Finish**
  Our newly-developed UV ink cuts down on degradation of gloss or texture caused by ink depth variations, a problem with conventional UV inks, to realize a natural gloss finish.

- **Optimised Ink Volume to match Paper and Printing Objectives**
  Paper-compatible output profile settings and three output modes make it possible to adjust image quality to match the paper type, printing objective, image quality and printing costs.
AccurioJet KM-1 incorporates the high-precision colour-matching technology used in the bizhub PRESS Series.

Konica Minolta
Inkjet Print Head Module capable of producing high image quality of 1200dpi

Improved character quality by application of edge-processing technology

Wide Colour Gamut
The newly-developed UV ink covers the Japancolor ink gamut.

AccurioJet KM-1 colour gamut that covers Japancolor
AccurioJet KM-1 is capable of output of 3,000 sheets/hour of the maximum paper size (585x750mm) and also offers impressive overall performance at a productivity rate of 1,500 sheets/hour in the automatic duplex printing mode. AccurioJet KM-1 can achieve even higher per-job productivity with jobs in which the number of impressions can be increased by using a large size paper.

- **High Productivity of 3,000 sheets/hour**
  - Use of the new UV ink eliminates the need for drying time.
  - AccurioJet KM-1 is capable of automatic duplex printing not possible with conventional ink. Elimination of time spent waiting for the ink to dry contributes significantly to reduction in the overall production time.

- **Automatic duplex printing with no drying time**
  - Use of the new UV ink eliminates the need for drying time.
  - AccurioJet KM-1 is capable of automatic duplex printing not possible with conventional ink. Elimination of time spent waiting for the ink to dry contributes significantly to reduction in the overall production time.
High Productivity & Short Turnaround

Like a panther racing towards its prey with unrivalled explosive power

AccurioJet KM-1 contributes to short turnaround time not only through fast printing speed, but also features such as reduced drying time by use of UV ink and unfailing reduced downtime thanks to the user-maintenance design.

— No need for printing plates and major reduction in printing preparation time spent on colour adjustments

In addition to flexibility realised by the elimination of the need for printing plates, as a digital printer, AccurioJet KM-1 makes it possible to achieve major reductions in preparation time. In addition, because it is capable of high productivity as a digital printer, major reductions in printing preparation time can be realised because there is no need to perform tasks such as colour adjustment between machines required in situations where multiple digital printers are in use.

— Machine Design that minimises downtime

Inkjet print heads can be replaced by the operator. Like an offset printer, the machine has been designed so that it can be maintained by the operator in most cases. This means reduced downtime caused by visits of service engineers, contributing to improved operating ratio.

— Automatic duplex printing without the need for printing plate and drying processes contributes to significant reduction in production time.

General Offset Printer

AccurioJet KM-1

Automatic duplex printing without the need for printing plate and drying processes contributes to significant reduction in production time.

— User-maintenance compatible. Reduced service waiting for servicing while mean improved operating ratio.

AccurioJet KM-1 contributes to short turnaround time not only through fast printing speed, but also features such as reduced drying time by use of UV ink and unfailing reduced downtime thanks to the user-maintenance design.
Flexibility & Versatility

Like an eagle that uses its sharp eyesight to focus on its prey.

Furnished with the ability to handle a wide variety of paper types, AccurioJet KM-1 makes major contributions to printing services. Compatible with the largest paper size in the class and a wide range of types from thin to thick papers, AccurioJet KM-1 offers the ability to use an extensive range of base materials including offset paper with no need for pre-processing. AccurioJet KM-1 takes maximum advantage of the range of digital printing applications including the inimitable merit of non-contact UV inks that allow handling rough surface paper to create new business.

- Maximum paper size of 585x750mm
- Compatibility with diverse paper types through the elimination of the need for pre-processing
- Capable of printing book jackets, tri- and quad-fold menus, brochures and pamphlets
- Improved workability achievable by the automatic duplex printing function.

No exclusive paper types are required. Because no pre-processing such as pre-coating is required, AccurioJet KM-1 is capable of handling a wide range of base materials including ordinary offset printing paper, significantly contributing not only to enhanced paper-compatibility, but also short turnaround time through elimination of the need for warehousing and reduced number of production processes.

The ability to increase the number of impressions of small size prints enables improved productivity and workability.

Printing of posters of a maximum size of 585x750mm.

Furnished with the ability to handle a wide variety of paper types, AccurioJet KM-1 makes major contributions to printing services.

Compatible with the largest paper size in the class and a wide range of types from thin to thick papers, AccurioJet KM-1 offers the ability to use an extensive range of base materials including offset paper with no need for pre-processing. AccurioJet KM-1 takes maximum advantage of the range of digital printing applications including the inimitable merit of non-contact UV inks that allow handling rough surface paper to create new business.
Compatible with paper thickness
of 0.06 to 0.6mm
Compatible with paper thicknesses from 0.06mm to 0.6mm. Not only ordinary printing, but also applications such as package printing can be performed on a single machine. In addition, paper thicknesses of 0.06mm to 0.45mm can be handled in the automatic duplex printing mode.

Compatible with texture paper using the UV Inkjet system
The ability to print on texture paper, a task that presents difficulties with offset or electro-photographic printing systems, is one of the unique merits of the UV Inkjet system, a non-contact system that cures without the need for pre-processing. This wide-ranging compatibility offers the ability to further improve designability and create new added values.

Variable printing compatibility unique to digital printing
The controller developed by Konica Minolta enables variable printing, enabling the provision of new printing services to contribute to business expansion by improving customer relations and winning new jobs.

Compatible with a wide range of paper thicknesses from 0.06mm to 0.6mm and also capable of handling applications that require strength.

Outstanding printing quality on texture paper using the UV Inkjet System
AccurioJet KM-1 incorporates paper-conveying technology identical to that used for offset printers to realise highly reliable and accurate paper conveyance.

**Paper-conveying technology identical to that used in Offset Printing**

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.

**Greater registration accuracy realised by use of UV ink**

Because UV ink does not readily dry when exposed to air, problems such as ejection misalignment caused by drying of the ink on nozzle surfaces are minimal compared to other inkjet systems.

**Stable printing quality**

AccurioJet KM-1 is equipped with internal inline sensor that automatically detect and correct image flaws. The inline sensor keep image quality degradation caused by nozzle defects in the inkjet system to a minimum.

**Image quality control by inline sensor**
Reliably produces printed products of stable high quality. AccurioJet KM-1 uses paper conveying 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.

Reliability

Like a lion winning the unshakeable trust of his subjects as king of animals

Problems such as nozzle misfire and streaks are detected and images automatically corrected by inline sensors.

Merit of using UV Ink: Because processes such as permeation of the paper with solvents and drying are unnecessary, paper waviness is minimised and outstanding registration accuracy and high-quality prints are realised.
Major Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>29-inch Sheet-fed UV Inkjet Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>1,200 x 1,200dpi</td>
</tr>
<tr>
<td>Ink</td>
<td>UV ink</td>
</tr>
<tr>
<td>Colour gamut</td>
<td>4 colours</td>
</tr>
<tr>
<td>Printing speed</td>
<td>Simplex printing: 3,000 sheets/hour</td>
</tr>
<tr>
<td></td>
<td>Duplex printing: 1,500 sheets/hour</td>
</tr>
<tr>
<td>Max. paper size</td>
<td>585 x 750mm</td>
</tr>
<tr>
<td>Max. printing size</td>
<td>Simplex printing: 575 x 735mm</td>
</tr>
<tr>
<td></td>
<td>Duplex printing: 575 x 735mm</td>
</tr>
<tr>
<td>Paper thickness</td>
<td>Simplex printing: 0.06 to 0.6mm</td>
</tr>
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<td>Duplex printing: 0.06 to 0.45mm</td>
</tr>
<tr>
<td>Device dimensions (W x D x H)</td>
<td>5,369 x 2,947 x 2,325mm</td>
</tr>
<tr>
<td>Device weight (main body)</td>
<td>Approx. 8,100kg</td>
</tr>
</tbody>
</table>

*Specifications and functions listed in this catalog are subject to change at the time of product release.

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).