KONICA MINOLTA

AccurioJet 30000

GO FURTHER.
SWITCH ON SUCCESS
RETHINK PRINT VALUE



Giving Shape to Ideas

HIGH LEVEL PRODUCTION

AccurioJet 30000 is Konica Minolta's latest most innovative digital UV inkjet press. It offers a highly stable, color-accurate digital printing platform with a more advanced inkjet printhead design featuring patented Dot Freeze Technology. Coupled with unprecedented versatility in processing offset substrates this print system transforms inkjet production and makes inkjet sheetfed printing a reality.

Blending the print materials choice and stability typical of offset presses with the benefits of the latest digital technology your business also benefits. You gain amazing media flexibility, plus zero set-up for variable data printing and the ability run oversized B2 sheets.

Unrivalled media flexibility

AccurioJet 30000 expands your scope – you can say yes to more customers and take on jobs that are more profitable. You can also work with an unprecedented variety of speciality media, including heavy textured stock, canvas, metallics, translucent stock, packaging board and plastics*. This 'Swiss army knife' of print technologies makes multitasking a breeze, allowing you to switch between applications easily and efficiently without compromising quality.

Unrivalled reliability and consistency

Impress your customers with outstandingly accurate and consistent color. From the first print thru to the last of thousands of pages, AccurioJet 30000 offers unrivalled color consistency and register accuracy. Inline sensors ensure continuous image quality control enabling automatic in run correction while mechanical front and side stops work along-side material grippers effectively eliminate image quality degradation on longer runs – ensuring first-class registration on every printed page.

Exceptional image quality

Expand and enhance the applications your business produces using LED UV inkjet and Konica Minolta's patented Dot Freeze Technology. Our proprietary edge processing technology ensures sharper text quality, true 1200 x 1200 dpi resolution and an amazingly wide color gamut to give you virtually unlimited creative applications.

Astounding productivity

Achieve the highest print volumes with ease – producing up to 3,000 sheets per hour as well as automatic duplex printing without ink drying delays. Flexible impositioning on the wide B2+ format (585 x 750 mm) plus large-volume media feed and removal also keep workflows moving fast. And downtime is minimized thanks to higher levels of operator self-maintenance.

As a result AccurioJet 30000 delivers the much shorter throughput and set up times compared to offset production. So, whether you are a commercial printer or other user of high-end printing presses you'll find our latest most innovative UV inkjet print system well worth exploring.

* Some plastics require pre-treatment such as corona or primer due to their nature.



GROUNDBREAKING INNOVATIONS

Patented Dot Freeze Technology™

Konica Minolta's unique, proprietary Dot Freeze Technology™, has developed from a range of inkjet innovations, including an innovative 1,200 dpi print head and a patented ink formulation. To further improve output quality an image correction system checks the print quality of each printed sheet – so you can be confident that your customers will always receive first-class print quality and perfectly matched colors within a tolerance of ΔE 1.5.

Patented LED UV B2+ inkjet process

Konica Minolta's Dot Freeze Technology™ includes a patented LED UV-curing inkjet printing process that prints perfected, high-resolution images on a wide variety of materials in a single printing process, without priming or recoating – whether the media is coated or uncoated, and regardless of the thickness of the film or material type.

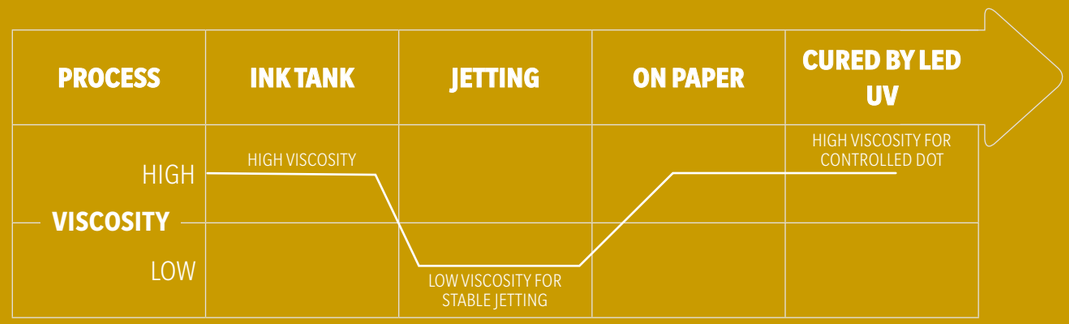
High viscosity ink system

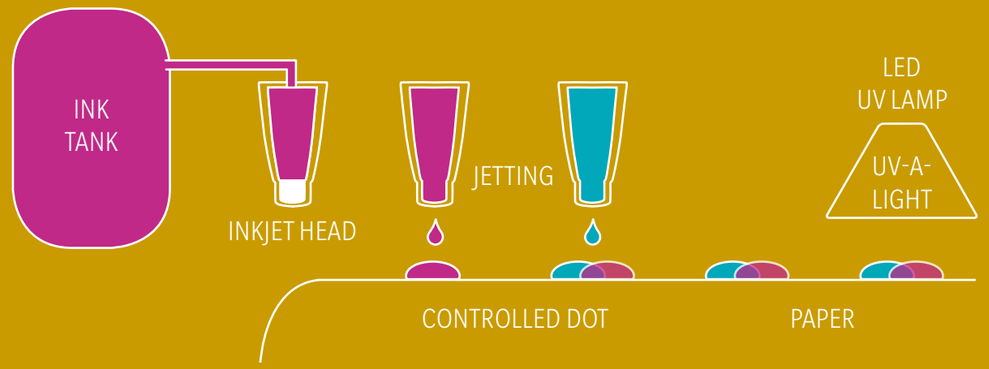
Dot Freeze Technology™ controls each printed dot on contact with the material, preventing ink dots from pooling or bleeding by using a unique high viscosity ink system that enables reliable ejection due to a much lower viscosity at this stage of the print process, but it then immediately 'freezes' the ink on contact with the substrate. This prevents uncontrolled ink dot movement and also prevents ink from penetrating too deeply into uncoated materials. The result is exceptional color stability on both coated and uncoated materials in the world's largest working temperature environment for a digital press. End users enjoy razor-sharp text and a wide color gamut that creates vibrant colors which stand out on the page.

Consistent print results

LED UV curing technology applies minimal heat to the substrate and is designed to deliver consistent results over thousands of hours of operation. Because UV-curable inks are used, there is no need to expel water from the print, eliminating typical drying-related issues such as material warping, perfecting and excessive heat.

KONICA MINOLTA LED UV INK "DOT FREEZE TECHNOLOGY™"





DFT™
DOT FREEZE TECHNOLOGY



THE ESSENTIAL PRODUCTION MACHINE

Konica Minolta's AccurioJet 30000, digital inkjet printing system, features special UV ink, high-performance inkjet printheads and a revolutionary image processing system. Combining our proprietary technologies creates a superior performance production press capable of the highest image quality, amazing stability, outstanding productivity and unrivalled flexibility.

As a print professional you will also appreciate how our new AccurioJet 30000 offers important benefits to streamline production processes and speed up operations, while helping diversify and building new business – at the same time strengthening relationships with existing and customers.

AccurioJet 30000 – BENEFITS AT A GLANCE

Offer unlimited printing services

- Wide range of paper thicknesses: 0.06 to 0.6 mm
- Broader range of media: clear film, metallic media, canvas, embossed paper and more
- No pre-coating required for normal substrates

Expand your business with innovative technology

- Combination of proprietary Konica Minolta printheads and revolutionary UV ink
- Inline sensors for consistent and reliable print results
- Stable media transport system, comparable to media handling on an offset press

Optimize throughput times and maximize efficiency

- High productivity of 3,000 sheets/hour
- Automatic duplex printing without ink drying waiting time
- Flexible imposition on a wide media format of 585 x 750 mm
- Large media volume for maximum print runs

Delight customers with superior reliability and consistency

- Outstanding color consistency
- Highest register accuracy
- Inline sensor for image quality control
- Paper handling technologies equivalent to an offset printing system

Outstanding image quality

- 1,200 x 1,200 dpi output resolution
- Fogra-59 – Certified wide color gamut
- Sharp text quality
- No damage to the paper

Efficient workflows, excellent usability

- Improved data processing system IJ Manager
- Easy integration into existing offset workflows
- Inline interface for third-party finishing devices
- Newly developed tape inserter





HIGHER PRODUCTION EFFICIENCY, SHORTER TURNAROUND TIMES

RETHINK PRODUCTIVITY

Exceptional overall productivity shortens turnaround times

AccurioJet 30000 helps you offer your customers much shorter delivery times while you profit from far greater productivity. Inkjet printing naturally eliminates the need to prepare and adjust printing plates in the press, which significantly reduces set-up times. Together with the automatic duplex printing function, this contributes to outstanding overall productivity.

Highly productive – up to 3,000 printed sheets/hour

AccurioJet 30000 outputs up to 3,000 sheets per hour in simplex mode on the maximum paper format (585 x 750 mm). Or up to 1,500 prints per hour in automatic duplex mode.

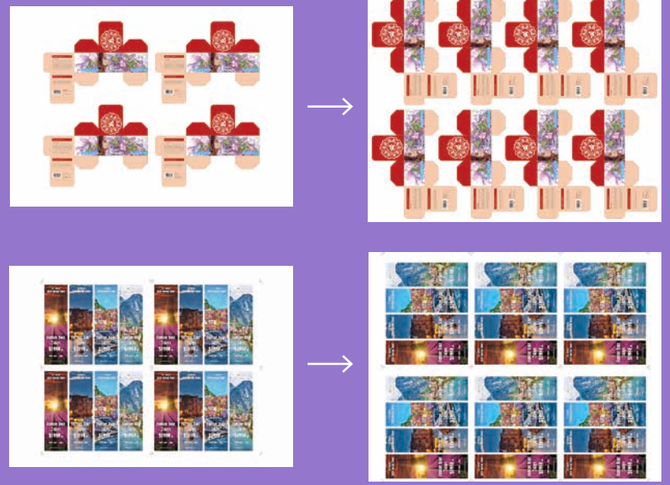
Automatic duplex printing with no drying time

AccurioJet 30000's unique inkjet printing process requires no drying time for duplex printing, so two sided prints are fully automated. This eliminates waiting times and significantly reduces production turnaround times. Automatic duplex printing is available on substrate thicknesses from 0.06 to 0.45 mm.

Common B2+: 530 x 750 mm

AccurioJet 30000 B2+: 585 x 750 mm

Small size package



Letter (215.9x279.4mm) size

B2+ large media formats increase flexibility and productivity

The wider B2+ format of 585 x 750 mm increases flexibility during impositioning and ensures even higher productivity.

Operator serviceable print system minimizes downtime

AccurioJet 30000 is designed to be largely operator serviceable, which naturally helps maximize production and slash downtime by reducing the number of on-site service technician visits. Our new remote support services help resolve issues faster to cut downtime and wait time to significantly improve you print system's operating ratio.

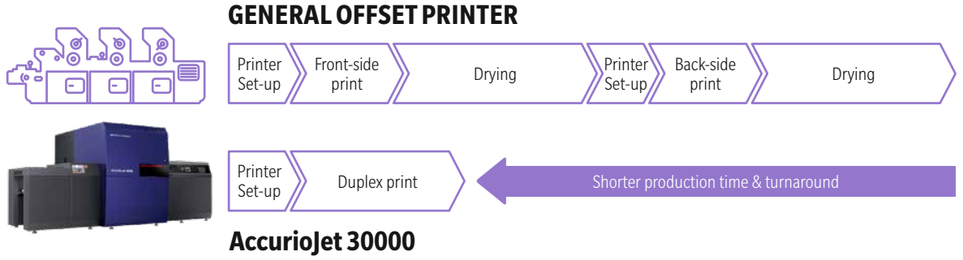
Efficient paper processing for longer print runs

The feeder accepts paper up to 900 mm high and the prints can be stacked up to 630 mm high. For added convenience, a sample tray enables quick quality checks and the printing of small batches.



Outstanding overall productivity for shortest turnarounds

With inkjet printing, the need to make and set plates in the press is eliminated, much shortening setup times. Together with the auto duplex printing capability, this helps achieve an outstanding overall productivity.





INFINITE OPPORTUNITIES TO EXTEND PRINTING SERVICES

AccurioJet 30000 frees your thinking, providing a gateway to expanded and improved printing services. There's no limit on what you can offer thanks to the print system's compatibility with a wider range of substrates, including translucent, metallic, colored and plastic media. All made possible by newly introduced media sensors and the unique properties of Konica Minolta's revolutionary UV ink.

Substrates as thin as 0.06 mm

AccurioJet 30000 is capable of printing on thin paper without curling or wrinkling. An issue caused by the swelling and drying processes that aqueous inkjet systems usually require.

Media as thick as 0.6 mm

Having the ability to print on thick paper up to 0.6 mm, makes AccurioJet 30000 extremely versatile. It can handle items such as packaging, tags, desk calendars, menus, direct mail, simple photo albums and more.

Translucent media

AccurioJet 30000 can also prints on translucent media, which facilitates the creation of new print offerings such as backlit posters and signage with high image permanence.

Synthetic media and canvas

Print restaurant menus without lamination as well as maps, figures and outdoor displays. All are easily produced thanks to Konica Minolta's unique UV inkjet technology which also enables high-quality printing on canvas.

Textured and embossed media

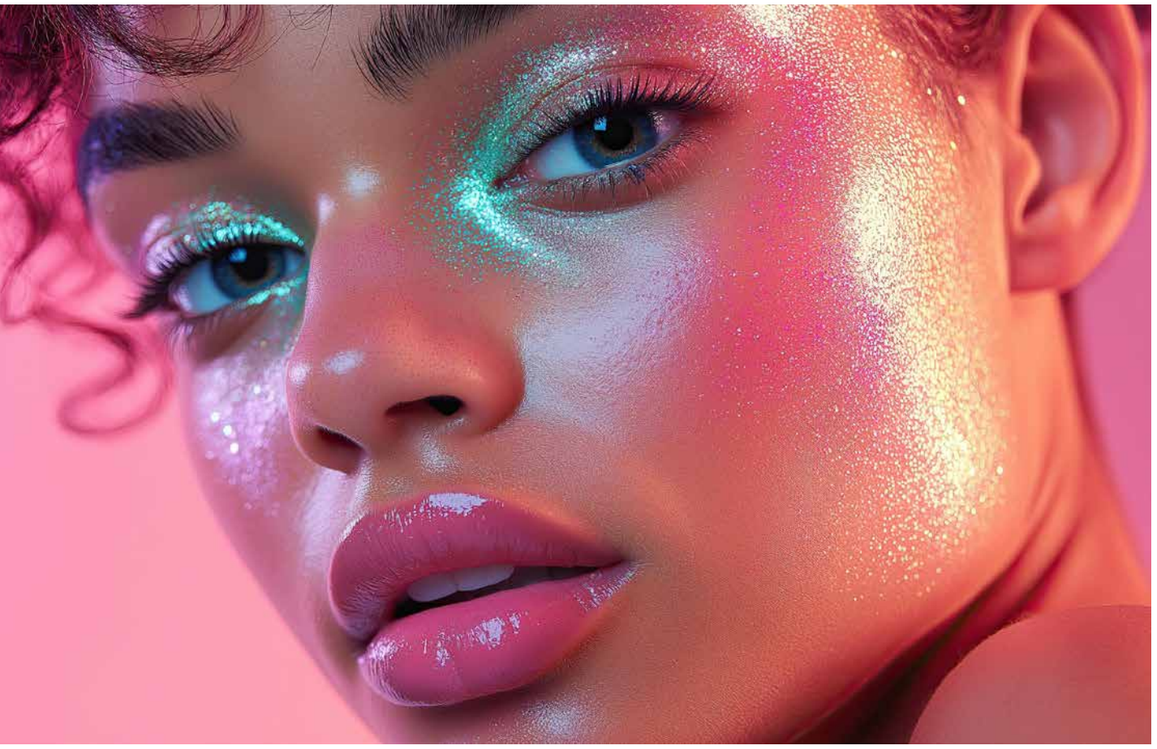
High quality business cards, shopping vouchers, invitations, certificates and such like are easily printed too – thanks to our special UV ink and the non-contact inkjet printing process.

Metallic and colored media

The capacity to print on metallic and colored media means the AccurioJet 30000 takes your print offering up into specialist high value products such as creative business cards, shop cards and packaging.

Clear film

Utilize the AccurioJet 30000's ability to print specialty packaging and clear folders on clear plastics and films. Adding new applications to your print offering will attract new customers and profitability grow your business without any further major investment.



MAXIMISED RELIABILITY AND CONSISTENCY

Although a digital press AccurioJet 30000 offers the same paper processing stability as an offset printer. And reliably delivers print products of the highest quality on longer runs. Our proprietary UV ink ensures high register accuracy and minimizes clogging of the nozzles – for first-class, absolutely stable image quality.

Excellent color consistency

Color matching of jobs is near perfect consistently delivering results within a tolerance of ΔE 1.5. Our patented process ensures perfect inkjet operation so jobs can be forwarded immediately for further processing, saving you time and money.

Higher registration accuracy

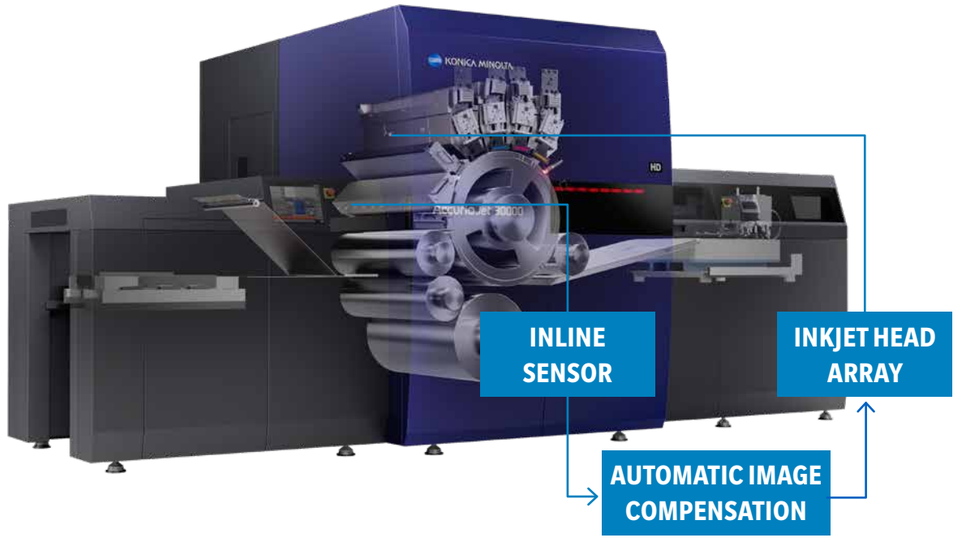
The use of UV ink avoids problems such as waviness or curling that often occur with processes such as thermal fusing and drying ensuring the AccurioJet 30000 achieves excellent print quality and very accurate registration on types of print job.

Paper handling technology remains identical to that of offset printers

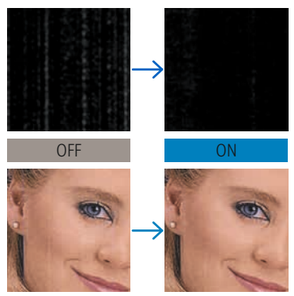
The AccurioJet 30000 is configured with an offset-equivalent transport mechanism that includes functions such as an air blower, vacuum sucker, wire sucker, paper stretch sucker and claw gripper feeder – which again ensure stable paper transport and high-precision registration.

Image quality regulated by inline sensor

AccurioJet 30000 has an internal inline sensor that automatically recognizes and corrects image errors. This inline sensor minimizes the impairment of image quality that could otherwise be caused by nozzle errors in the inkjet system.



Detection of defective nozzle and feedback to auto image correction function



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

YOUR ADVANTAGES WITH THE AccurioJet 30000

RETHINK INKJET

UV INKJET INK

UV ink allows printing on a wide range of media, including offset stock, without the need for pre-coating. Damage to the paper is reduced because light-curable UV ink does not require heat drying – the AccurioJet 30000 thus consistently produces high-quality prints.

LONG LIFE UV LEDs

UV LEDs have a longer life and provide highly consistent UV light. Their various merits mean less damage to the paper, as they generate almost no heat nor any ozone emissions. Another advantage is the shorter heating and cooling time.



INLINE SENSORS

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

HIGH-PRECISION INKJET HEADS

High-resolution output of 1,200 dpi is achieved via two high-density inkjet heads with 600 nozzles per inch that are incorporated into an inkjet head module.

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/hour.

NEW MEDIA SENSORS

The AccurioJet 30000 features various new media sensors to ensure the reliable processing of special media including transparent, metallic and coloured substrates – thus enabling print providers to expand their range of print products.

HIGHLY STABLE PAPER TRANSPORT

To ensure stable paper support without fail, the AccurioJet 30000 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.

BRILLIANT RESULTS

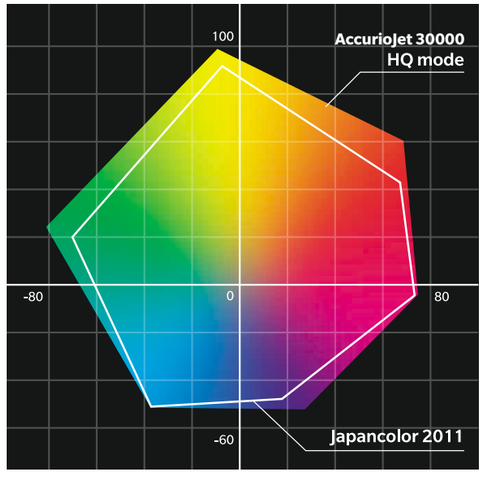
With its new high-definition print heads, AccurioJet 30000 provides first-class image quality, enabling the creation of special effects such as excellent skin tones with minimal graininess or a natural glossy look.

Highest image quality – 1200 x 1200 dpi

The AccurioJet 30000's state-of-the-art inkjet print heads, unique UV ink and innovative halftone processing technologies achieve an impressive image quality of 1,200 dpi – for perfectly consistent print results.

Clear text quality

Technology developed by Konica Minolta for processing font edges ensures outstanding text quality with sharpness and legibility even at small and very small font sizes.



Larger color gamut

The AccurioJet 30000's wide color gamut – which includes Japanese color standards, ensures precise color reproduction whatever the customer requires.



Highly functional and precise color management system

Konica Minolta's professional color management software offers perfect accuracy in color reproduction.

Precise registration and print quality

By using UV ink, the AccurioJet 30000 avoids the rippling and curling of paper normally associated with the heat setting and drying of aqueous inkjet systems. Instead, our digital inkjet press produces perfect, high-quality prints with the highest register precision.

Additional print modes – configurable ink quantity to adapt to paper

Apart from its standard mode, the AccurioJet 30000 offers two other print modes – one for coated paper that requires high-class imaging, and one for uncoated paper that requires a matt texture.

OPTIMIZED WORKFLOWS

IMPROVED IJ MANAGER INTEGRATES EASILY WITH OFFSET WORKFLOWS

Using the AccurioJet 30000 is simple, in part thanks to the IJ Manager, the integrated, improved data processing system that allows the digital print system to easily match in with existing offset workflows. An intelligent interface provides for inline connection to a range of finishing devices, including a newly developed tape inserter to further boost efficiency.

IJ Manager

The AccurioJet 30000's improved data processing system features a high-speed RIP for complete VD processing, sensors for detecting nozzle jet status and an algorithm that automatically compensates for defective nozzles during operation to keep your print jobs flowing seamlessly.

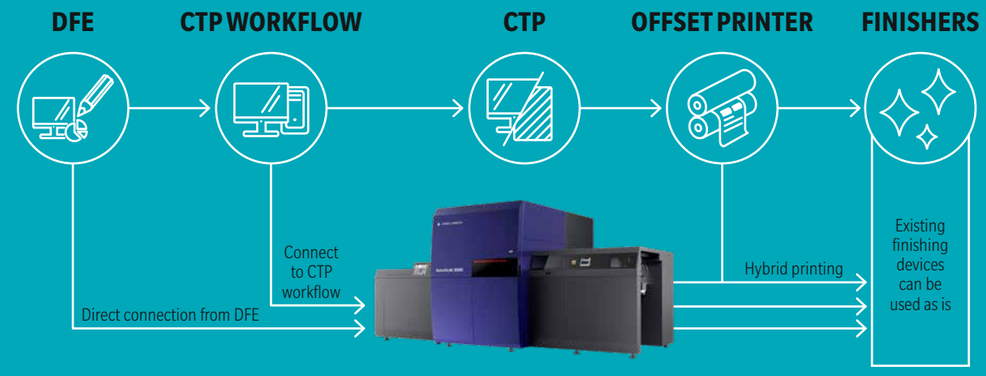
Variable data printing (VDP)

Thanks to its compatibility with PPML 2.2, you can use AccurioJet 30000 to open up new business opportunities by producing individualized print products that cannot be created with offset printing alone.



Hybrid printing support

Not only can the AccurioJet 30000 receive files from general DFE (Digital Front End) or CTP workflow RIP and output the prints accordingly. It also supports hybrid workflows where the operator can freely choose between offset printing and digital printing just as required.

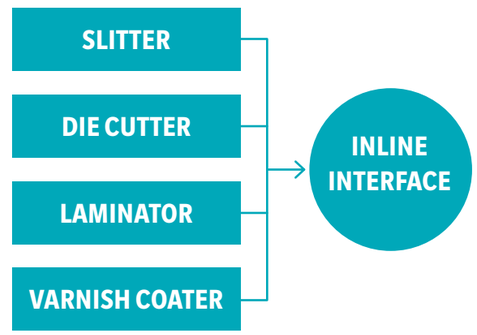


New tape inserter

A simple smart process for automatically inserting ribbons between different jobs significantly boosts the efficiency of your finishing workflows.

Inline interface for 3rd-party post-press equipment

A newly developed interface means post-processing can easily be carried out inline, which further improves overall workflow efficiency and enables shorter throughput times.



WIDE SPECTRUM OF APPLICATIONS

LED UV printing can achieve outstanding results in a wide range of applications for both the consumer and commercial sectors, broadening your sales mix and potential market.

AccurioJet 30000 gives you the flexibility to print on virtually any substrate – from heavy textured, canvas, metallic, translucent, folding carton or bible paper to tear-resistant materials and plastics*.

EXPAND YOUR SALES MIX WITH:

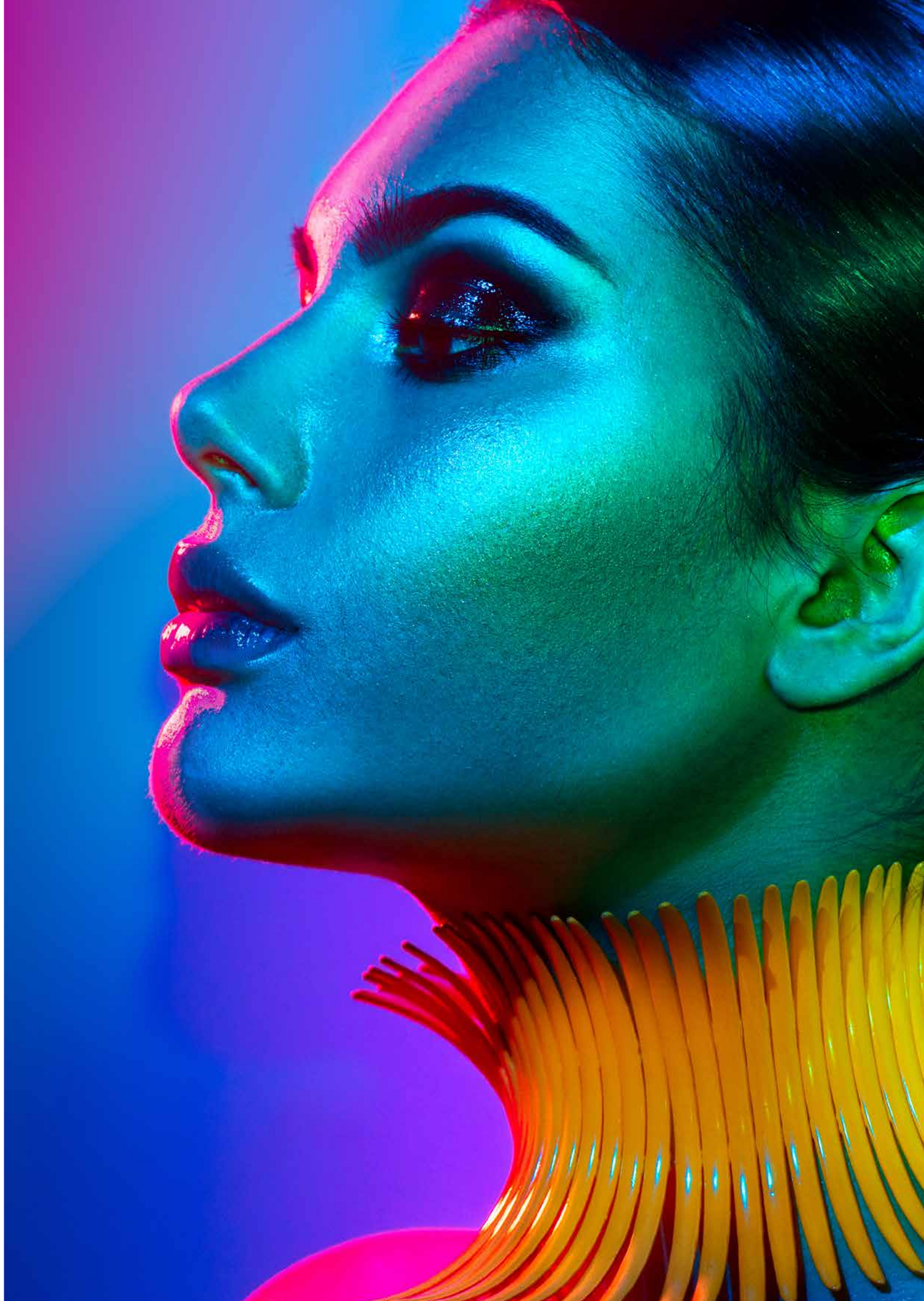
- **Packaging materials, folding carton**
- **Posters, banners, signage**
- **Books, book jackets, brochures, magazines**
- **Fine art, photography, photo books, photo merchandise**
- **Greeting cards, business cards, plastic (ID) cards**
- **Gift packaging on clear film, metallic & translucent media**
- **Personalized direct mailings, inserts, coupons**
- **Restaurant menus**

One pass Variable Data Printing

AccurioJet 30000 offers one step, one pass, variable data print (VDP). Individualized prints, such as direct mailings, do not require second pass overprinting of the personalized elements. This rapid turnaround is in part thanks to Konica Minolta's patented LED UV ink, which requires absolutely no drying time.

As with the print systems other automated and time saving features this again assists with overall productivity, helping you process more orders per day while reliably meeting tight delivery deadlines.

* Due to their nature, some plastics may require pre-treatment such as Corona or primer.



10 GOOD REASONS
FOR AccurioJet 30000



1. PATENTED DOT FREEZE TECHNOLOGY™

For perfect print results and accurate colour matching within a tolerance of ΔE 1.5.



2. UNMATCHED PRODUCTIVITY

A real workhorse with no need for plate making but up to 3,000 prints per hour, perfecting, ease of operator maintenance, automatic self-cleaning and more.



3. UNPARALLELED MEDIA PROCESSING

Traditional offset material handling system for enhanced applications and a boost to productivity.



4. WIDER RANGE OF PRINT PRODUCTS

Prints on a wider range of offset coated and uncoated substrates, and newly incorporates canvas, heavy textured, metallic, translucent, foiled carton stock, plastics* and labels.



5. AMAZING IMAGE QUALITY

New high-definition print heads provide top image quality of 1,200 dpi to create amazing results, such as superb skin tone with less graininess, and a natural-gloss look.



6. UNRIVALLED UPTIME

Based on trusted offset technology, the AccurioJet 30000 is robust and reliable, and constantly available for production at the highest level.



7. PERFECT FOR THE PACKAGING SECTOR

Due to its versatility to print onto a wide range of substrates with up to 0.6 mm thickness.



8. OFFSET QUALITY IN A SINGLE PRODUCTION STEP

Prints more jobs much faster, e.g. direct mailings in one production step instead of printing offset shells first, followed by black overprinting for the text.



9. GROWING DIGITAL PRINT MARKET

With the demand for ever-shorter lead times and run lengths as well as increasing job numbers, the AccurioJet 30000 is your perfect choice for digital print production.



10. THE "SWISS ARMY KNIFE" OF PRESS TECHNOLOGY

Go for a multitude of digital advantages paired with quality and speed on offset level for fastest production of sophisticated print products!



ANYTHING BUT ORDINARY

THE AccurioJet 30000 SERVICE CONCEPT

service is anything but ordinary. From day one Konica Minolta's field service specialists take care of all contingencies to help ensure there are no problems setting up your AccurioJet 30000.

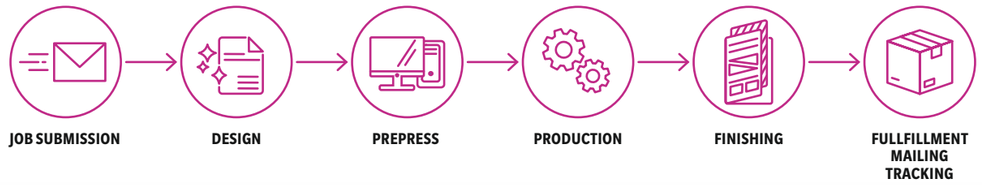
The installation site is carefully checked in advance to ensure that it meets all the technical requirements of your new digital UV inkjet press. We closely monitor the delivery process so that all components arrive on time. Installation is then carefully carried out by our experts, including final testing according to pre-agreed criteria.

Operator Training

Operator training not only focuses on the printing machine, but also its service routines. So when installed every aspect of your AccurioJet 30000 is ready for operation. They also receive several months of start-up support to familiarize them with your new inkjet press. Our field service representatives will guide them in developing the best daily routines for operating and servicing the machine.

YOUR STRATEGIC PARTNER

From job submission to tracking, Konica Minolta will partner you in developing a complete package of workflow solutions to meet the needs of your business. In addition we have formed strategic partnerships with other print industry suppliers to give you a best-in-class software, coatings, laminates, finishing equipment, network connectivity, digital asset management systems, substrates and more.





KONICA MINOLTA

TECHNICAL SPECIFICATIONS
RETHINK INKJET

SYSTEM SPECIFICATIONS

Type	B2+ perfecting sheet-fed full colour UV inkjet digital press
Resolution	1,200 x 1,200 dpi
Ink	LED UV ink
Number of colours	4 (extended gamut CMYK)
Print speed	3,000 sheets/hour 1,500 sheets/hour
Sheet size	Up to 585 x 750 mm
Max. printable area	575 x 735 mm (simplex) 575 x 730 mm (duplex)
Sheet thickness	0.06 to 0.6 mm (simplex) 0.06 to 0.45 mm (duplex)
Processable substrates	Uncoated, coated, coated art paper; coloured paper; metallic paper; transparencies; plastic substrates; canvas; mineral 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; StandardEconomy (ink saving mode)
Power source	3 phase 200V 335A (50Hz/60Hz)
Device dimensions (WxDxH)	5,369 x 2,947 x 2,325 mm
Device weight	Main body: approx. 8,100 kg Ancillary facility: approx. 2,000 kg

– Inkjet LED 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
– Konica Minolta does not warrant that any prices or specifications mentioned will be error-free
– All the above specifications are subject to change without notice
– All brand and product names may be registered trademarks or trademarks of their respective holders and are hereby acknowledged

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Konica Minolta
Business Solutions Australia Pty Ltd

Free Call 1800 789 389
www.konicaminolta.com.au

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