



KONICA MINOLTA

COLOUR TECHNOLOGIES



**COLOUR
TECHNOLOGIES**

Giving Shape to Ideas

UNIQUE DIGITAL IMAGING & MEDIA TECHNOLOGIES

With Konica Minolta colour printers and presses, you'll find it easy to differentiate your business with enhanced quality, greater creativity and speed of delivery. The Konica Minolta bizhub PRO colour printers and bizhub PRESS colour presses have been equipped with unique digital technologies that guarantee their outstanding and singularly consistent quality. This gives print providers like you the benefit of a true differentiator, enabling you to really exceed customer expectations and increase your business opportunities.

Depending on their predominant areas of application, the different digital production systems feature these innovative imaging and media technologies in varying combinations – not all technologies introduced in this leaflet are therefore available on all printing presses.

Imaging technologies

Konica Minolta's own advanced colour processing technology of the second generation is called S.E.A.D., which stands for "Screen-Enhancing Active Digital Process", and combines an array of technical innovations to guarantee truly exceptional colour reproduction at top speed. S.E.A.D. II includes these important capabilities:

- **1,200 x 1,200 dpi x 8 bit print resolution** – The impressive print resolution on Konica Minolta printers and presses reproduces the finest characters and thinnest lines to perfection. With 8 bit colour depth and Dot Positioning Control, they achieve a resolution equivalent to 1,200 x 3,600 dpi.
- **Screen technology** – Konica Minolta offers up to 12 different screening types for higher-quality output as well as smooth and realistic image reproductions that match print data perfectly. This includes the FM (Frequency Modulated) screening, which produces smooth moiré- and jagged-free images.
- **OutLine Processing** – OLP improves the appearance of characters no matter whether this concerns small fonts, thin characters or inverted text. Konica Minolta's imaging technology applies the right optimisation to reproduce high-resolution characters. Key operators can trust this system that automatically adjusts to provide the best possible quality.

OUTLINE PROCESSING

THINNING PROCESS OF CHARACTERS

Reducing the outline pixel values thins down solid characters and lines.

WITHOUT
OUTLINE
PROCESSING



AFTER
OUTLINE
PROCESSING



WHITE CHARACTER ENHANCEMENT

Reducing the outline pixel values of the background surrounding the character, make white characters look thicker.

WITHOUT
OUTLINE
PROCESSING



AFTER
OUTLINE
PROCESSING



KEY DRAWING ENHANCING PROCESS

Emphasising the dithered edges of the character reduces jaggedness.

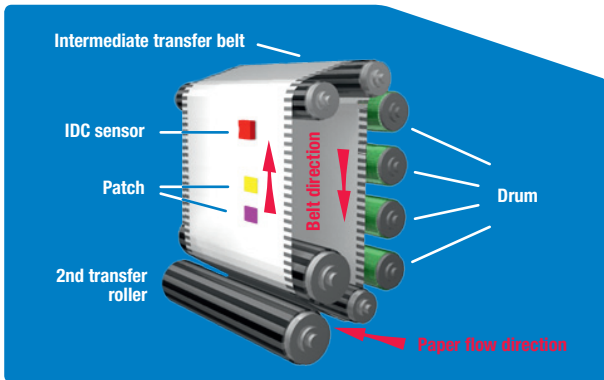
WITHOUT
OUTLINE
PROCESSING



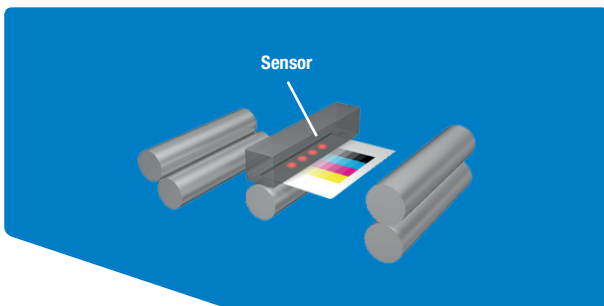
AFTER
OUTLINE
PROCESSING



- **Image Density Control** – IDC monitors the image consistency during continuous printing without affecting the performance. Corrections are fully automatic and improve the stability of the image quality, while the whole process considerably enhances production efficiency.



- **Output Feedback System** – As a standard feature on all bizhub colour printing presses, OFS provides colour density control and gradation correction by measuring densities directly on the paper used. Key operators benefit from enhanced efficiency, as they no longer need to apply a time-consuming calibration process.



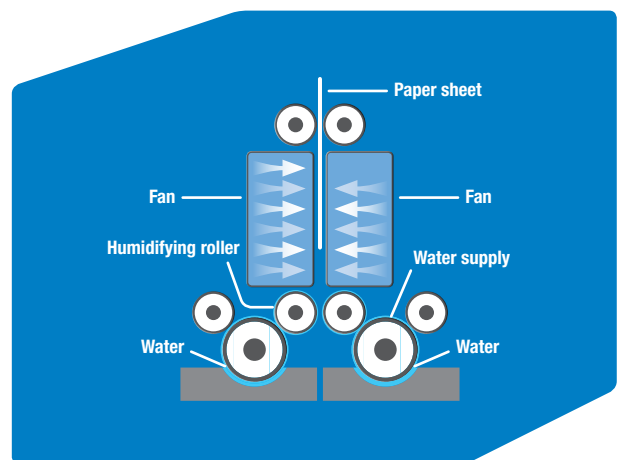
- **Colour Retention and Stability** – The exclusive CRS technology constantly monitors the status of Konica Minolta colour printers and presses. Receiving continuous feedback about changes in the print environment and the engine, CRS immediately makes the necessary adjustments to always maintain highest print quality.

Media handling technologies

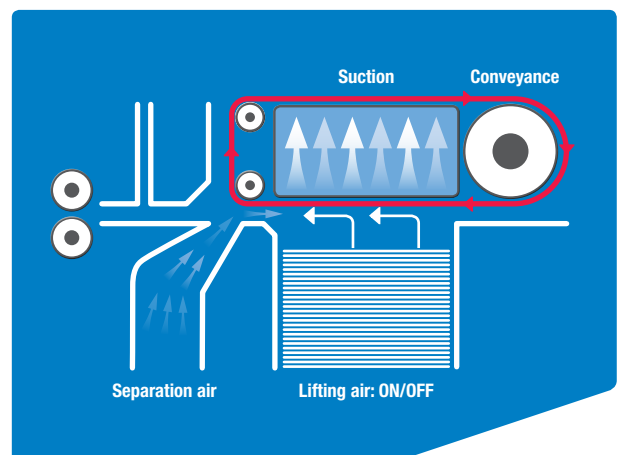
Konica Minolta's digital imaging technologies are further enhanced by pioneering media handling technologies that again optimise the superior print quality and professional look-and-feel of the finished print product:

- **Skew Detection System** – Thanks to the SDS controlling the skew amount after the leading edge of the paper has been fed, Konica Minolta printers and presses produce prints with highest front-to-back accuracy.

- **Decurling and ICE** – As part of this technology, a mechanical paper decurling unit is provided as standard on all bizhub colour presses. For critical applications, a second mechanical decurling unit is also available (standard on bizhub PRESS, optional on bizhub PRO systems) that adds a humidifier unit to help remove unwanted static and heat from the paper. Additionally, the optional Inter-cooler Curl Eliminator (ICE) can be integrated to humidify the paper passage and help reduce paper curls and paper clinging. In combination with the mechanical decurler, this achieves a highly accurate paper delivery.



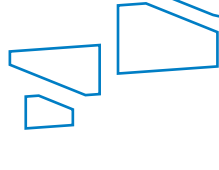
- **Vacuum paper feeding** – It is essential for high-volume printers to feed each and every sheet smoothly and precisely through the digital press. To ensure this, Konica Minolta offers professional and intelligent paper feeding that builds upon proven concepts, including a combination of air separation of sheets and suction/vacuum feeding. This ensures smooth paper processing throughout the printing system. For efficient printing on offset preprinted and coated stock as well as under high humidity conditions, an optional heating unit can be added to enhance this precise technology further.





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