



74 Karat
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KBA 74 KARAT

Top-class solution for new lines of business



The standard for integrated production Revolutionary & Inspiring

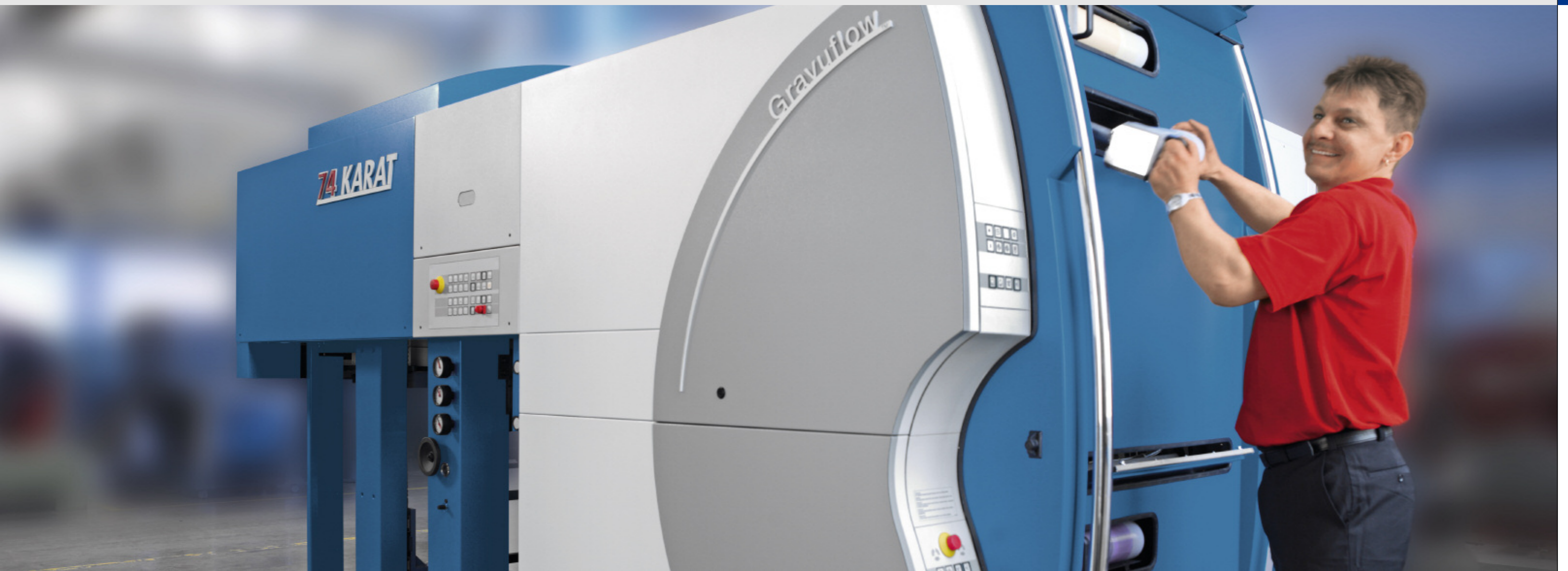
The press of the future in the truest sense of the word – the 74 Karat. You will be amazed at what fits into such a compact press, because the 74 Karat packs genuinely concentrated printing technology for formats up to 52 x 74 cm. An attractive but no less functional design, integrated plate imaging, and – best of all – the keyless Gravuflex™ inking technology. The 74 Karat combines the efficiency of a fully digital workflow with the quality and versatility of offset printing. A real multi-talent for both typical printers and unconventional pre-press professionals.

You need an economical means of production for short-run full-colour work? You want maximum productivity without click costs but at the same time care for the environment? You plan to handle your print orders over the Internet and are looking for a clever on-demand

solution? Then the 74 Karat is the perfect answer to your call. Enjoy cost-effective and standardised quality offset for medium, short and even ultra-short runs – all just-in-time!

Benefit from the fastest imaginable makeready times, an absolute minimum of start-up waste and a maximum printing speed of 10,000 sheets per hour! Leave the water out of your print equation, and marvel at the vibrant colours, rich solids and crisp detail!

Whether as a newcomer or switcher – catch the flair of digital sheetfed offset.



Gravuflow™ inking unit Waterless & Keyless

The waterless and keyless Gravuflow™ short-train inking unit defines a whole new set of benchmarks for efficiency and performance in offset printing. You, too, will be convinced before you know it: Unbelievably fast make-ready times, a minimum of start-up waste and the high production reliability speak for themselves.

The Gravuflow™ keyless inking units combine cutting-edge engineering and economic dependability. They comprise merely a chamber blade system, a ceramic-coated, laser-engraved anilox roller and an ink forme roller. That is

all! Printing could hardly be simpler: Ink key settings? – Gone! Ink-water balance? – Gone! Ghosting and streaking with difficult formes? – Gone! The continuously rotating anilox roller guarantees constantly even inking of the forme roller and plate. Do you still believe that you are going to miss your ink keys and dampening units?

Tweak the screws where they really matter! The waterless and keyless Gravuflow™ inking technology is the ideal basis for consistent process standardisation and systematic quality control, reducing the complex interac-

tions inherent to the print process and eliminating sources of error. Successful implementation of colour management means that quality is definitely no longer a question of luck. Through process standardisation, quality can now be measured, documented and proven!

We know for sure: You, too, will soon succumb to the charms of the innovative Gravuflow™ technology.



Face up to today's demands for ever higher levels of efficiency, quality and reliability with the unique concept, ultimate automation and open workflow interfaces of the 74 Karat. The double-size plate cylinders, with their four Gravuflow™ inking units and two imaging heads, are arranged around a central, triple-size impression cylinder. The inking and printing units are grouped on one side of the press, the feeder and delivery together on the other side. A coating unit and infrared dryer permit immediate printing of the reverse – without even needing to turn the pile.

Modern imaging technology brings further valuable benefits: Investments in a separate platesetter and its many associated process steps become superfluous. That saves time, labour, space and money. Two imaging heads with 40 diodes each provide for dot-sharp quality. The process-free thermal printing

plates are changed without operator intervention. Plates are drawn fully automatically from the previously inserted books, imaged on the plate cylinder itself, and then ejected into a collecting tray after printing. At the end of imaging, a special dry cleaning function leaves the plates ready for immediate printing. That shortens job changeovers and further facilitates production scheduling.

With its open interface to pre-press, the 74 Karat becomes a prolific output medium in a consistently digital workflow. It integrates seamlessly into all 1-bit TIFF workflows, and thus places no restrictions on your flexibility.

Welcome to probably the most elegant form of direct imaging!

Automated workflow Efficient & Reliable



Duty to the environment

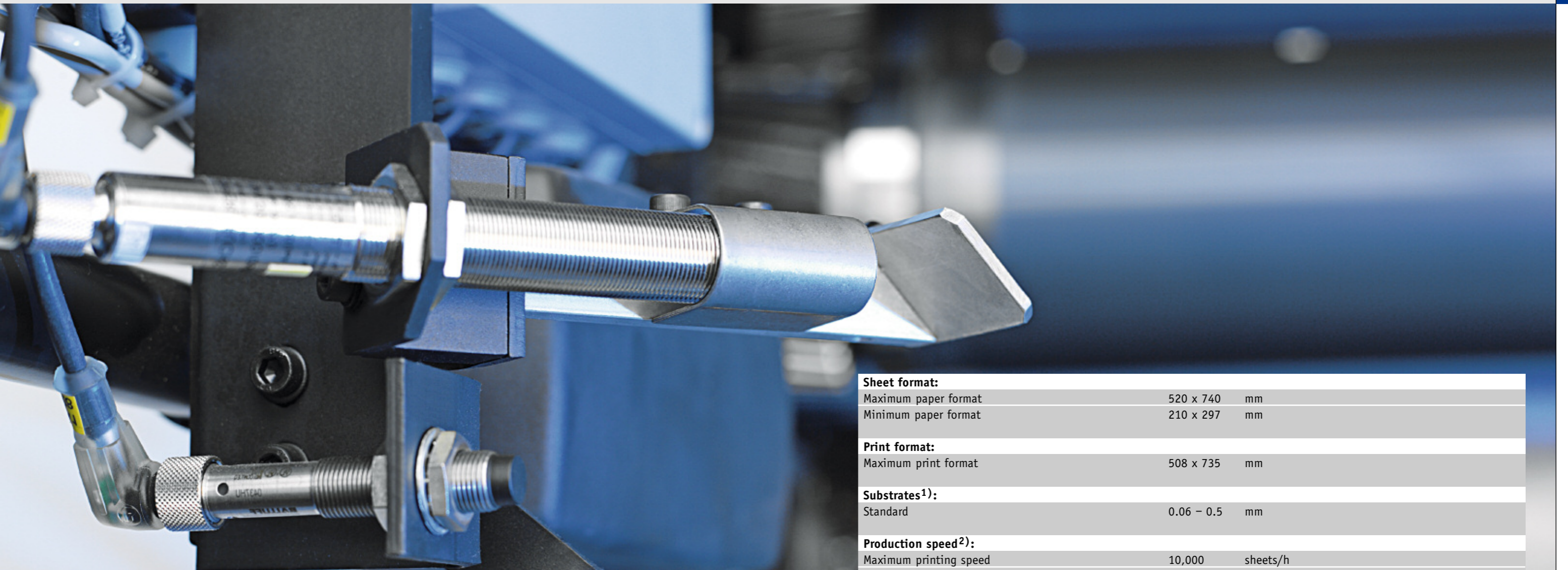
Clean & Ecological

No need to worry about water, alcohol and additives when printing with the 74 Karat. After all, it has no dampening units. And what about plate developing chemistry? That you can forget altogether.

Reducing makeready waste to just a few sheets is another plus when it comes to ecology. You can save thousands of sheets, day after day. That is not only good for your bottom line, it also eliminates unnecessary CO₂ emissions. Efficient ink supplies from a fully automatic cartridge system, the elimination of the developing stage after plate imaging and environment-friendly washing systems are further contributions to an ecological print process. It goes almost without saying that such a press has received the internationally recognised eco-certificate "Emission-tested".

Would you also like to do something for the environment? Calculate the carbon footprint of your own production processes, and compensate the unavoidable emissions through the purchasing and cancellation of emission certificates. After all, "climate-neutral printing" is not only an investment in our common future, it also represents added value for the customers buying your products.

Proven green technology – the 74 Karat places you ahead of the crowd.



Technical details

Clear & Concise

Sheet format:		
Maximum paper format	520 x 740	mm
Minimum paper format	210 x 297	mm
Print format:		
Maximum print format	508 x 735	mm
Substrates¹⁾:		
Standard	0.06 – 0.5	mm
Production speed²⁾:		
Maximum printing speed	10,000	sheets/h
with inline coating	8,000	sheets/h
Pile heights³⁾:		
Feeder	600	mm
Delivery	600	mm
Plate and blanket dimensions:		
Plate size	551 x 745	mm
Blanket size	590 x 750	mm
Printing plates:		
Presstek PEARLdry aluminium plates		
20 plates per book (for 10 jobs)		
Imaging parameters:		
Resolution	2,540 dpi at screen rulings up to 80 lines/cm (200 lpi)	
Diodes	40 IR laser diodes per multi-beam imaging head	
Recommended ambient conditions:		
Temperature	18 – 26	°C
Relative humidity	50 – 65	%

- 1) Printability is also influenced decisively by the flexural rigidity of the substrate
- 2) Dependent on individual processing parameters, e.g. the inks and substrates used
- 3) From floor