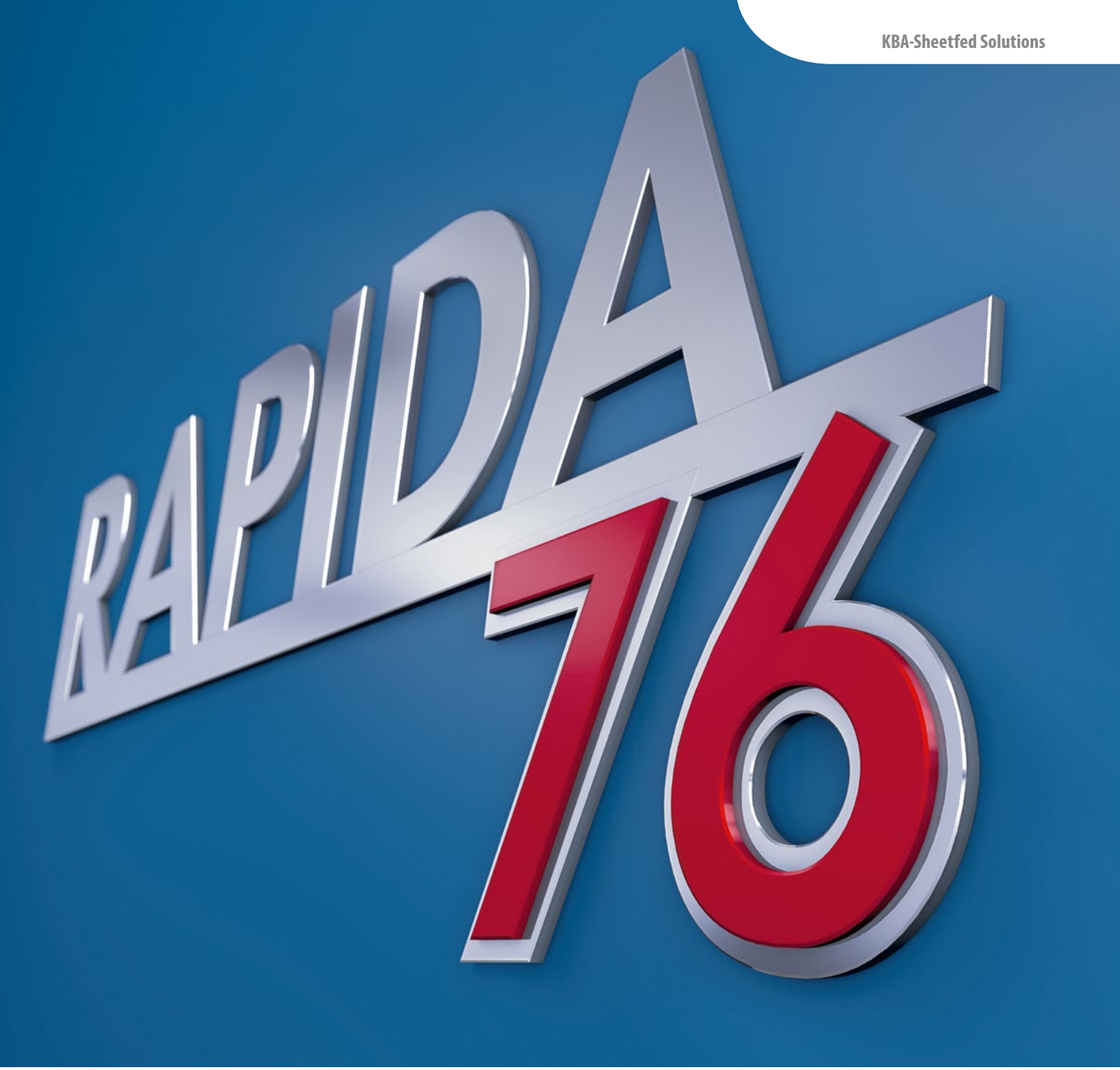


KBA Rapida 76

Automation redefined for the B2 format class

KBA
Koenig & Bauer Group



Half-format – full performance

The benchmark in B2 format

With the Rapida 76, KBA has designed yet another highly efficient press suitable for the most varied applications. Proven technologies and new automation features combine to produce the most modern half-format press on the market. Its preset capabilities reduce job changeover times to an absolute minimum, while production speeds of up to 18,000 sheets/h raise profitability to new levels. Not only that – the press can be configured exactly the way you need for your individual job structure.



Packaging printers benefit from application-oriented configurations with up to eleven printing and finishing units. Equipment packages extend the already broad substrate range to include heavier boards or plastic films. Commercial printers, on the other hand, can choose a press with up to ten printing units, perfecting and an additional coating tower. In this way, five colours can be printed on both sides of the sheet, and the product can then even be finished on a single pass.

If you are one of those printers who have never been able to exploit the full output capacity of a medium-format press, but have always envied the automation convenience, the Rapida 76 is your ideal means of production. It pairs aesthetic design with the exceptional KBA Drive-Tronic dedicated drive technology. Those are the new benchmarks in B2 format. Experience the convincing superiority.



DriveTronic ease of operation

Smooth running for maximum output

The incorporation of state-of-the-art DriveTronic dedicated drive technology enables the feeder and infeed of the Rapida 76 to stand out above the crowd. Immediate benefits are exceptionally smooth running and sheet transport without the risk of marking. The sidelay-free infeed DriveTronic SIS, furthermore, is a feature unique to KBA presses – and well proven over many years of practical use. It provides for automatic, contact-free lateral alignment of the sheet, without operator intervention.



DriveTronic feeder
- Feeder motions controlled via servo motors
- Automatic pile side edge control and pile lift adaptation by way of sensors
- Speed-dependent format and air settings, saved at the ErgoTronic console for later recall
- Non-stop pile changing based on individual rods or a fully automatic system (options)

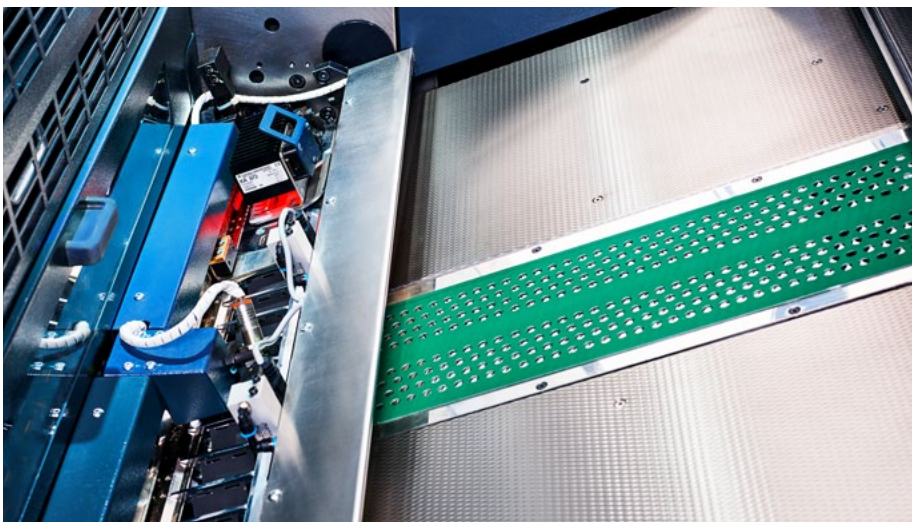
Feeder head
- Lifting suckers, forwarding suckers and separator springs for reliable sheet separation and transport at speeds up to 18,000 sheets/h
- Side blowers to assist sheet separation when working with difficult substrates
- Rear-edge pile height sensing with automatic compensation of the feeder head height
- Antistatic loosening and separating air for reliable separation of the individual sheets

Suction-belt feed table
- Single central suction belt
- Stainless, antistatic structured surface
- Multi-chamber vacuum system for exact and reliable sheet transport into the infeed
- Electronically controlled sheet deceleration to ensure optimum sheet arrival at the front lays

DriveTronic SIS (Sensoric Infeed System)
- Electronically controlled lateral sheet alignment without the need for a side lay
- Integration into automatic format setting eliminates all need for operator intervention
- Gentle sheet positioning with the highest possible accuracy
- Venturi system before the feed line for smooth sheet infeed
- Pneumatic drive elements for precise positioning of the sheet, even at maximum speed

Infeed
- Central parallel and skew correction of the feed line
- Touchscreen display with direct function keys for reliable and intuitive press operation

Sheet monitoring
- Ultrasonic double-sheet detector, also for inhomogeneous materials
- Electronic multiple-sheet detector
- Optical skew-sheet and front lay sensors
- Electropneumatic overshoot blocking as protection against missing, skew and double sheets







Venturi sheet guiding

Perfect for every substrate

Characteristic for the printing units of the Rapida 76 is the low-curvature sheet travel over double-size impression cylinders and transfer systems. An ingenious Venturi sheet guiding system carries the sheets from one printing unit to the next, with no worries about marking or scratching. The substrate you are using makes no difference – whether lightweight paper or heavier board.

Design principle
- Unit design
- Double-size impression cylinders and transfer systems for reliable sheet travel with the most varied substrates
- 7 o'clock cylinder arrangement
- Side frames joined with robust crossbeams
- Continuous gear train for smooth running and precision
- Corrosion-free coating of cylinder surfaces
- Precise rolling between plate and blanket cylinders thanks to play-free bearings and bearer contact
- Central lubrication

Sheet travel
- Gentle, air-cushioned sheet travel with blower systems and Venturi guide plates
- Automatic setting of the substrate thickness
- Pneumatic impression on/off switching

Universal gripper systems
- No settings required when switching to a different substrate thickness
- Hardened gripper tips and finely structured gripper pads for maximum holding forces
- Gripper pads and tips can be replaced individually
- Increased gripper shaft diameter

Register setting
- Mechatronic remote setting of lateral, circumferential and diagonal register from the ErgoTronic console
- Diagonal register adjustment achieved by tilting the transfer drums
- ErgoTronic ACR (Automatic Camera Register Control) for automatic measurement and control based on individual sheets using a separate video magnifier

Perfecting
- Three-drum perfecting unit with double-size systems to accommodate a broad spectrum of substrates
- High register stability
- Special gripper system to keep the rear edge of the sheet tight
- Fully automatic mode conversion completed in a maximum of 2 minutes
- KBA jackets on the impression cylinders and removable drum shells with an ink-repellent surface on the transfer drums for marking-free sheet travel after perfecting
- Gentle sheet guiding based on blower air
- Delivery with dynamic sheet brake comprising pre-suction wheels and suction modules (suction widths to suit different requirements)

Dynamic colour

Fast-reacting and efficient

High-performance sheetfed offset calls for stable and fast-reacting inking units – just like those of the Rapida 76. A single ink train for efficient heat dissipation, dynamic inking control and the same proven ColorTronic ink ducts which are used in all other Rapida presses are features which add up to an inking unit worthy of a format class leader. Furthermore, individual inking units can simply be left standing still if they are not required for a particular job.

Automation solutions such as fully automatic FAPC plate changers and washing systems capable of parallel operation minimise makeready times. The Rapida 76 is back to printing in a matter of minutes. And you can make the most effective use of your production time.

ColorTronic ink duct
- Flexurally rigid, ceramic-coated ink duct roller
- Ink duct roller speed compensated to the press speed to ensure constant ink transfer
- Wear-free ink metering with 25 carbide-tipped ink keys
- Dynamic inking control for fastest possible reaction
- Ink duct foil can be used to facilitate fast ink changes

Inking unit
- Fast-reacting single-train inking unit, with optional temperature control for the oscillating cylinders
- Ink vibrator frequency controlled from the ErgoTronic console in 5 steps
- Oscillation timing adjustment from the ErgoTronic console
- Manual activation/deactivation of ink forme roller oscillation for an even, ghosting-free print result
- Automatic disengaging of unused inking units from the ErgoTronic console (option)

Dampening unit
- Speed-compensated film-type dampening unit for a stable ink-water balance
- Skewing of the dampening pan roller to adapt dampening solution distribution over the format width
- Oscillating bridge roller in contact with the ink forme roller for ghosting-free print and high inking stability
- Differential drive controlled from the ErgoTronic console to eliminate hickeys (option)
- Additional chrome rider roller – fixed or oscillating (option)

Plate change
- Fully automatic plate change system FAPC
- Automatic plate removal, mounting, clamping and tensioning
- Change time approx. 40 seconds per printing unit

Washing systems
- CleanTronic roller washing system
- CleanTronic cloth-based cylinder washing system for blankets and impression cylinders
- Quick-release fittings for fast washing beam removal without tools
- Individual adaptation of washing programs to different substrates
- Washing program selection and solvent/cloth consumption display at the ErgoTronic console
- CleanTronic Synchro: Parallel blanket and impression cylinder washing with two washing beams for even faster makeready (washing at 7,000 sheets/h); optionally also roller washing
- CleanTronic Multi: Washing system for alternating ink systems (UV/conventional) with two separate solvent circuits and one water circuit
- CleanTronic UV: Washing system for UV applications, with safety functions to eliminate waiting times before and after washing





Shining results

Diverse possibilities for inline finishing

When it comes to inline finishing, the Rapida 76 leaves practically no wish unanswered. Single and multiple coatings, gloss and matt effects, all-over and spot finishes – the choice is yours. Presses with two coaters and intermediate dryer units are the icing on the cake with regard to quality and gloss levels. Perfector presses with an additional coater optimise the production of covers.

Chamber blade system

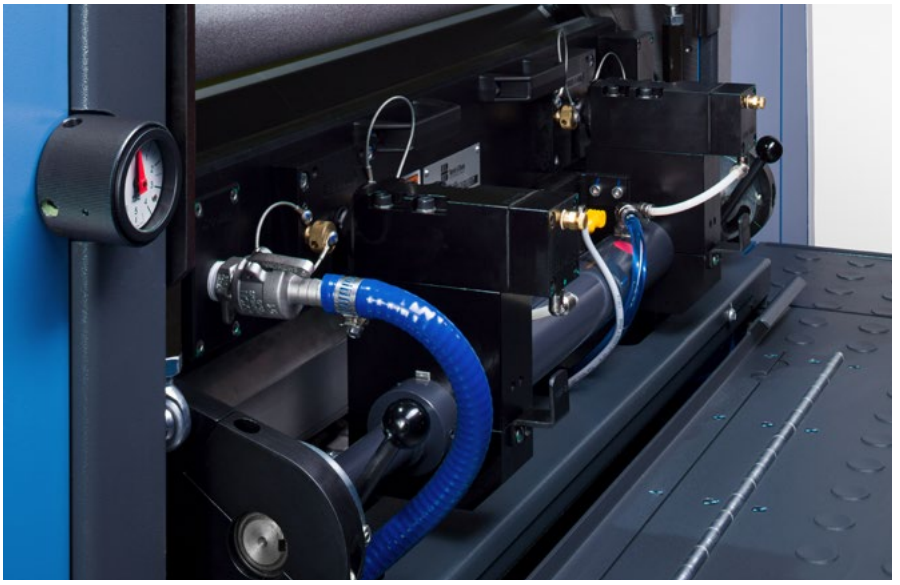
- Hydropneumatic chamber control for constant and even coating application
- Lightweight anilox roller
- HydroComp™ blade pressure control ensures maximum blade life
- Quick-release locking mechanism for fast and simple anilox roller exchange

Coating forme cylinder

- Coating forme cylinder with quick-action clamps and register pin system for exact positioning of the coating forme
- Use of flexible photopolymer or aluminium-based coating formes
- Automated coating forme change (SAPC)
- Remote adjustment of lateral, circumferential and diagonal register from the ErgoTronic console

Coating supply

- Choice of simple or automatic coating supply systems for dispersion and UV coatings
- Switch between dispersion and UV coatings in approx. 15 or 6 minutes, depending on system variant chosen
- Simple coating change in 1 to 2 minutes
- All further makeready processes run parallel to cleaning of the coating circuit
- Both systems controlled from the ErgoTronic console



KBA Rapida 76

Benchmark in B2 format



Console and measuring systems

- ErgoTronic console with TouchTronic control
- ErgoTronic ACR (Automatic Camera Register) – Option: ErgoTronic ImageZoom (video magnifier)
- ErgoTronic ICR (Integrated Camera Register) – Option: ErgoTronic ColorControl
- ErgoTronic ColorDrive (online density measurement) – Options: ErgoTronic Lab, ErgoTronic QualityPass, ErgoTronic Instrument Flight, ErgoTronic PSO Match
- ErgoTronic ColorControl (online density measurement) – Options: ErgoTronic Lab, ErgoTronic Quality-Pass, ErgoTronic Instrument Flight, ErgoTronic PSO Match
- QualiTronic ColorControl (inline density measurement) – Options: QualiTronic QualityPass, QualiTronic DotView, QualiTronic ColorView, QualiTronic Instrument Flight, QualiTronic PSO Match

Delivery

- High-level delivery for smooth sheet transport
- Reliable and marking-free sheet transport by way of an air cushion
- Automatic adjustment of the air volume at the Venturi nozzles to the printing speed and substrate properties
- Dynamic sheet brake comprising three suction modules with pre-suction wheels
- Automatic non-stop roller rack for uninterrupted production
- Delivery extension by 712 mm (ALV2) or 1,423 mm (ALV3)
- EES (Emission Extraction System)



Dryers
- VariDry^{Blue} IR/hot air
- VariDry UV
- VariDry HR-UV
- VariDry LED-UV
- VariDry^{Blue} IR/hot air/UV

Coater
- Chamber blade system with hydropneumatic chamber control
- Lightweight anilox roller
- Coating forme cylinder with quick-action clamps and register pin system for exact positioning of the coating forme
- Automated coating forme change (SAPC)
- Different coating supply systems, controlled via the ErgoTronic console
- Register setting from the ErgoTronic console

Plate change
- Fully automatic plate change system FAPC
- Change time approx. 40 seconds per printing unit



Printing unit

- Double-size impression cylinders and transfer systems for reliable sheet travel with the most varied substrates
- Gentle, air-cushioned sheet travel with blower systems and Venturi guide plates
- Universal gripper systems: No settings required when switching to a different substrate thickness
- Automatic setting of the substrate thickness
- Pneumatic impression on/off switching
- Mechatronic remote setting of lateral, circumferential and diagonal register from the ErgoTronic console
- Board-handling package for substrates up to 0.8 mm thickness
- Sheet travel sensors

Dampening unit

- Speed-compensated film-type dampening unit for a stable ink-water balance
- Roller coating for low-alcohol printing
- Differential drive controlled from the ErgoTronic console to eliminate hickeys (option)
- Additional chrome rider roller (fixed/oscillating)

Inking unit

- ColorTronic ink ducts
- Fast-reacting single-train inking unit
- Automatic disengaging of unused inking units
- Inking unit temperature control
- Accessories for rainbow printing
- Ink supply system



DriveTronic SIS

- Electronically controlled lateral sheet alignment without the need for a side lay
- Integration into automatic format setting eliminates all need for operator intervention
- Gentle sheet positioning with the highest possible accuracy
- Venturi system before the feed line for smooth sheet infeed
- Pneumatic drive elements for precise positioning of the sheet, even at maximum speed

DriveTronic feeder

- Feeder motions controlled via servo motors
- Automatic pile side edge control and pile lift adaptation by way of sensors
- Speed-dependent format and air settings, saved at the ErgoTronic console for later recall
- Non-stop pile changing based on individual rods or a fully automatic system (options)

General

- HighSpeed equipment package (up to 18,000 sheets/h)
- Board-handling equipment package (CX)
- Equipment package for lightweight substrates
- Equipment package for plastic films
- Equipment package “Touch-Free Guidance”
- Antistatic equipment packages
- UV/mixed operation
- Anilox coater with chamber blade
- Perfecting
- Extended deliveries
- Raised press foundations
- Double coating
- Dryer units

KBA VariDry dryer technology

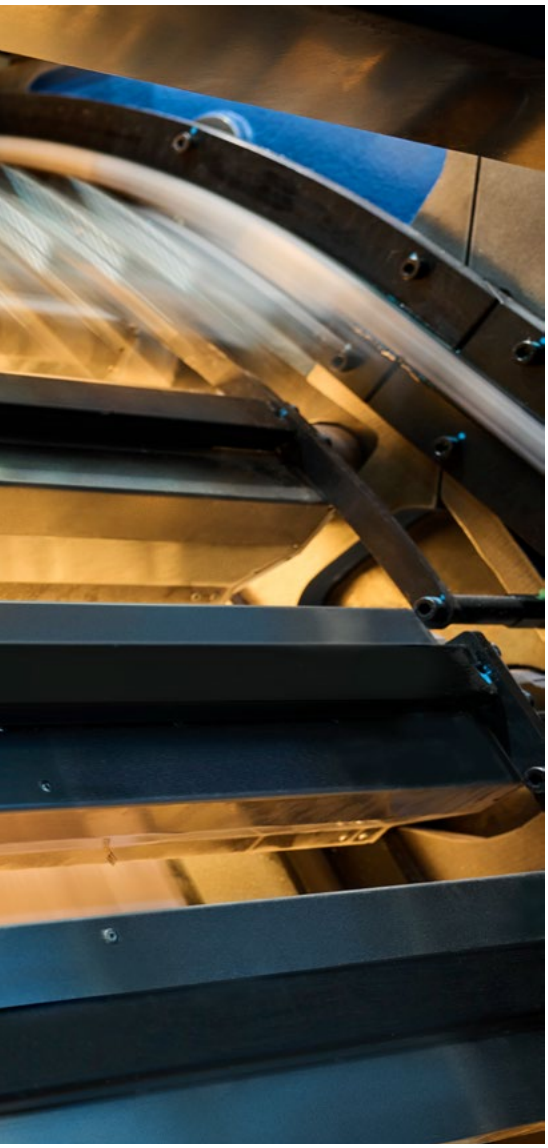
Energy-saving and environment-friendly

The range of VariDry dryer systems for intermediate and final drying is as broad as the spectrum of finishing possibilities. Alongside classic IR/hot-air dryers, modern UV, HR-UV and LED-UV systems are also available. Common to all variants is the modular system design and their perfect matching to sheet travel in the press.



VariDry^{Blue} IR/hot air
- Recirculation of the warmed but only partially saturated drying air from the swan neck reduces heating energy input
- Energy savings and lower CO_2 emissions thanks to efficient energy utilisation
- Additional IR lamp and additional air knife compared to Rapida 75 PRO

VariDry UV
- Stepless control up to maximum output
- Use of electronic ballasts for shorter warm up/cooling times
- Operating hours counter for each module
- Lamp replacement without tools



VariDry HR-UV
- Use of iron-doped lamps
- A single module is sufficient to cure up to five colours printed wet in-wet
- Low energy consumption
- No ozone
- Minimal powder application
- Immediate further processing

VariDry LED-UV
- Use of LED-UV lamps with long service life
- Outer LEDs switched off automatically in accordance with the format width
- No warm-up and standby phases
- Lowest energy consumption
- Mercury-free
- No ozone
- No odours or heat input into the substrate
- Minimal powder application
- Immediate further processing

VariDry^{Blue} IR/hot air/UV
- Combination of infrared, hot-air and UV drying in a three-section extended delivery for flexible mixed operation with conventional and UV systems

AirTronic delivery

Full preset capabilities

With a dynamic sheet brake, motorised positioning of the suction modules and Venturi sheet guide plates, the AirTronic delivery incorporates everything you need for marking-free sheet transport at all production speeds. Gentle sheet delivery ensures precise pile formation, as a prerequisite for reliable downstream further processing.

All operator settings are saved on the ErgoTronic console and can be recalled for repeat jobs. The Rapida 76 thus boasts full preset capabilities.

Sheet travel
- High-level delivery for smooth sheet transport
- Reliable and marking-free sheet transport by way of an air cushion
- Automatic adjustment of the air volume at the Venturi nozzles to the printing speed and substrate properties
- Speed-compensated gripper opening cam for a broad range of substrates
- Individual fan settings via the delivery touchpanel
- Dropping height adapted to the substrate thickness for gentle sheet delivery
- Extremely low air settings to reduce the volume of air trapped in the delivery pile
- Automatic non-stop roller rack for uninterrupted production
- Touchscreen display for reliable and intuitive press operation

Powder sprayer
- Exact, high-performance powder metering with minimal dust emissions
- Less contamination of the press and thus longer cleaning intervals
- Fast and clean powder changes
- Optical monitoring of powder flow, with sensor-based control as an option
- Operation from the ErgoTronic console

Sheet brake
- Dynamic sheet brake comprising three suction modules with pre-suction wheels
- Free positioning of the suction modules within the format; if necessary, one module can be left outside the sheet format
- Narrower suction belts permit maximum utilisation of the print area for perfecting or work and-turn
- High flexibility for the arrangement of gang formes comprising images of different sizes
- Reduced paper trimming waste

Extraction system EES
- Optional extraction system to eliminate health hazards from ozone and VOC emissions

Extended delivery
- Delivery extension by 712 mm (ALV2) or 1,423 mm (ALV3)
- Enhanced productivity when coating thanks to longer time for drying


KBA
RAPIDA
76

ErgoTronic console technology

Simple operating philosophy

Thanks to comprehensive console and preset capabilities, alongside an ergonomically arranged and intuitive user interface, work on the KBA Rapida 76 is child's play. All operating functions are clearly structured for process-oriented access via the modern touchscreen monitor.

Additional touchpanels with direct function keys help to maximise operator convenience at the feeder and delivery – directly on the press itself. The Rapida 76 also possesses tailored workflow components for integration into company-wide production control and management systems.

ErgoTronic
- Wallscreen for visualisation of all press settings
- Live image from QualiTronic ColorControl on wall screen
- ColorTronic ink metering with ink profile displays on console
- Sheet inspection desk with adjustable desk angle
- USB port for fast communication of job data
- Uninterruptible power supply to enable controlled press shutdown in case of power supply failure
- Integrated remote maintenance module KBA PressSupport24 Sheetfed with Internet link for remote maintenance and software updates

Control console functions (dependent on incorporated options)
- Job changeover program for automatic job presetting
- Job-specific saving of all relevant press parameters for repeat jobs
- Remote register setting
- Control for all peripheral equipment
- Maintenance indicator and print-outs of maintenance lists
- Unbroken production data acquisition in conjunction with LogoTronic Professional
- Creation and printing of pile dockets
- Preview images

New TouchTronic operating functions
- Touchscreen for intuitive access to all press functions
- Less start-up waste thanks to new functions to establish ink profiles
- All operating functions accessible with no more than two clicks
- Job list with preview images and functions for job order optimisation based on ink coverage data

Job changeover program
- Preparation of the next job while production is still running
- Automatic execution of all preselected makeready processes in time-optimised order
- Presetting of format and substrate thickness
- Presetting of all substrate-specific air settings
- Job-specific presetting of ColorTronic ink metering
- Preselection and activation of washing functions

ErgoTronic console with integrated measuring systems
In addition to the standard ErgoTronic features
- Sheet inspection desk as vacuum board with fixed desk angle
- ErgoTronic ColorDrive for density and Lab measurements
- ErgoTronic ColorControl for density and spectral measurements
- ErgoTronic ACR and ICR for register correction
- Integration of Instrument Flight for extended colour control based on grey balance
- PSO Match for colour control according to PSO and ISO 12647

LogoTronic CIPLinkX
- Ink profile presetting via CIP3 data

LogoTronic Professional
Comprehensive management system for KBA presses
- CIP3/CIP4 interface to prepress
- JDF/JMF or XML interface to an MIS
- Order management
- Press presetting
- Master data, including central ink database
- PressWatch for graphic representation of the overall production process
- SpeedWatch for graphic representation of job progress
- Automatic saving and management of all quality reports


KBA
OPENHOUSE



KBA Sheetfed Service

Top programmes for top performance

Service Select – Services relating to your KBA sheetfed offset press
The focus is placed on avoiding downtimes and maximising press availability – as the basis for ultimate performance.

- Remote maintenance
- Spare parts
- Inspections and maintenance
- Retrofits and upgrades
- Press relocation

Service Complete – Productivity-enhancing services from KBA
The objective is to analyse and assess existing processes, to identify potential for optimisation and to implement appropriate measures together with the user.

- Project management and consulting
- Process optimisation and performance reports
- Workflow solutions
- Training
- Optimisation of ecological efficiency

Press Consum – Consumables developed for KBA sheetfed offset presses
KBA Press Consum products were developed to meet the various demands of high-performance sheetfed offset printing and have been optimised specifically for use on our presses.

- Dampening solution additives
- Spray powder
- Coating plates
- Blankets
- Cleaners and care products

Within the framework of our Select & More service contracts, you can choose from a multitude of technology-related and productivity-enhancing services. Our service team would be pleased to help you define an individually tailored solution.

Radebeul training centre

Individual training concepts for your team

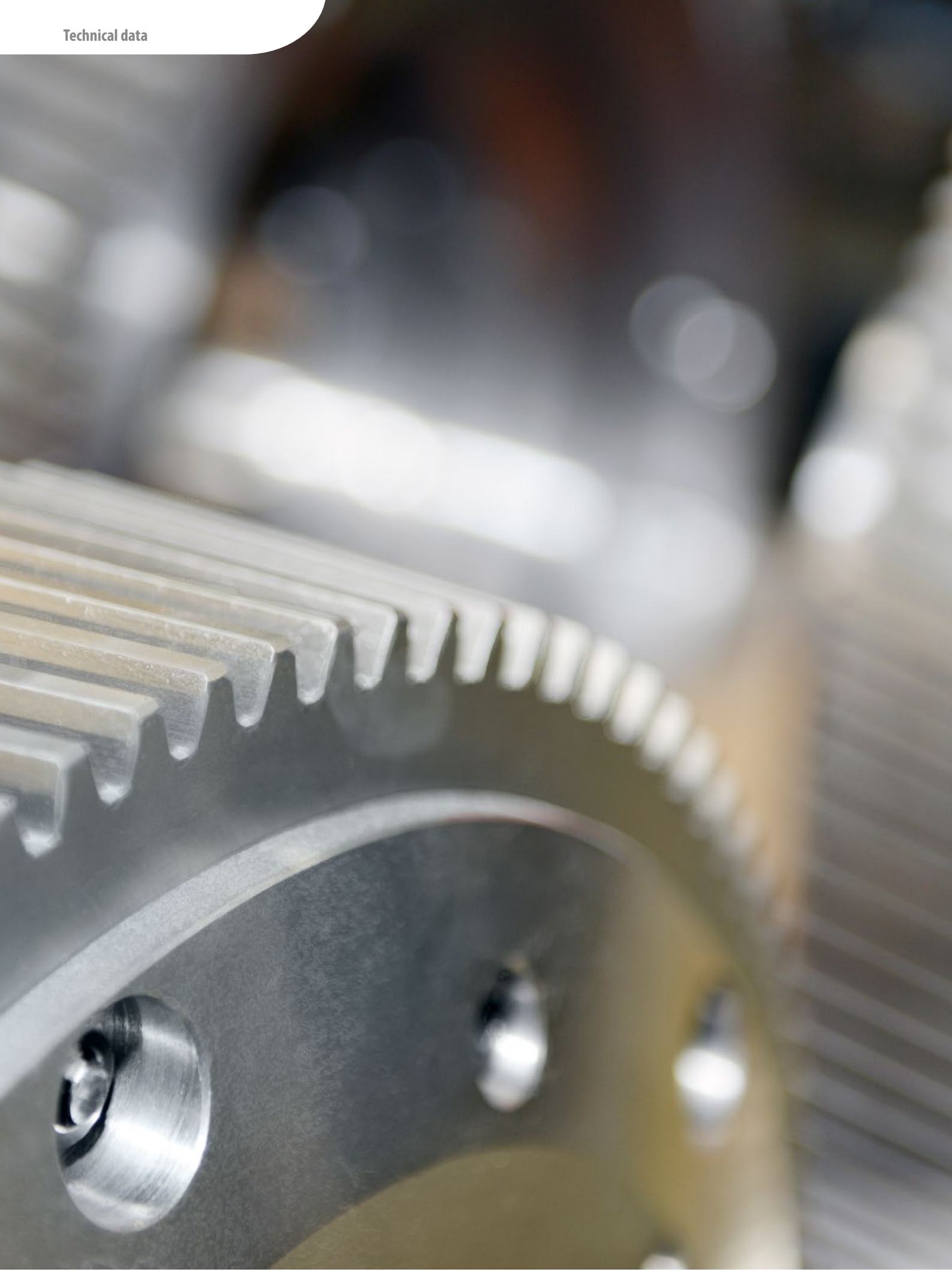
Business success driven by knowledge and further training – that is the maxim of the training centre at KBA-Sheetfed Solutions in Radebeul. And who could possibly offer more effective further training than the manufacturer?

Our training centre provides learning access to the latest equipment and presses for both new and existing Rapida users. Experienced experts share their boundless know-how relating to print technologies, current developments and trends:

- Operation of all current press generations
- Maintenance and care for all current press generations
- Electrical, mechanical and mechatronics training for all Rapida formats
- KBA print and process technology
- KBA measuring systems
- Performance training

All training seminars are offered in German, English or Spanish. Upon request, simultaneous translation is possible for other languages. Together with you, we develop individual training concepts to suit the specific needs of your personnel.





KBA Rapida 76

Technical data

Sheet format		
Maximum (standard/option)	530 x 750 / 605 x 750	mm
Minimum (standard/option)	210 x 297 / 210 x 297	mm
Print format		
Standard/option (straight printing)	520 x 740 / 585 x 740	mm
Perfecting	510 x 740	mm
Substrates[1)]		
Standard	0.04 – 0.6	mm
With board-handling package	0.8	mm
With perfecting	0.04 – 0.5	mm
Production speed[2)]		
up to 8 printing units + coater	16,000	sheets/h
up to 10 printing units + coater	13,000	sheets/h
Perfector press in perfecting mode	13,000	sheets/h
Press with HighSpeed package (optional)	18,000	sheets/h
Pile heights		
Feeder	1,180	mm
Delivery	1,390	mm
Plate and blanket dimensions		
Plate size (standard/option)	605 x 750 / 660 x 750	mm
Standard copy line	37.5	mm
Blanket size	700 x 748	mm
Configurations		
up to 10 printing units with perfecting and additional coater		

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

The illustrations and descriptions may depict or refer in part to special versions and options. Subject to technical and design modifications. Country-specific variants may apply. More detailed information can be obtained from your local KBA representative.

KBA Rapida 76
from the Koenig & Bauer Group

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04/2017-e

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