

RAPIDA 145

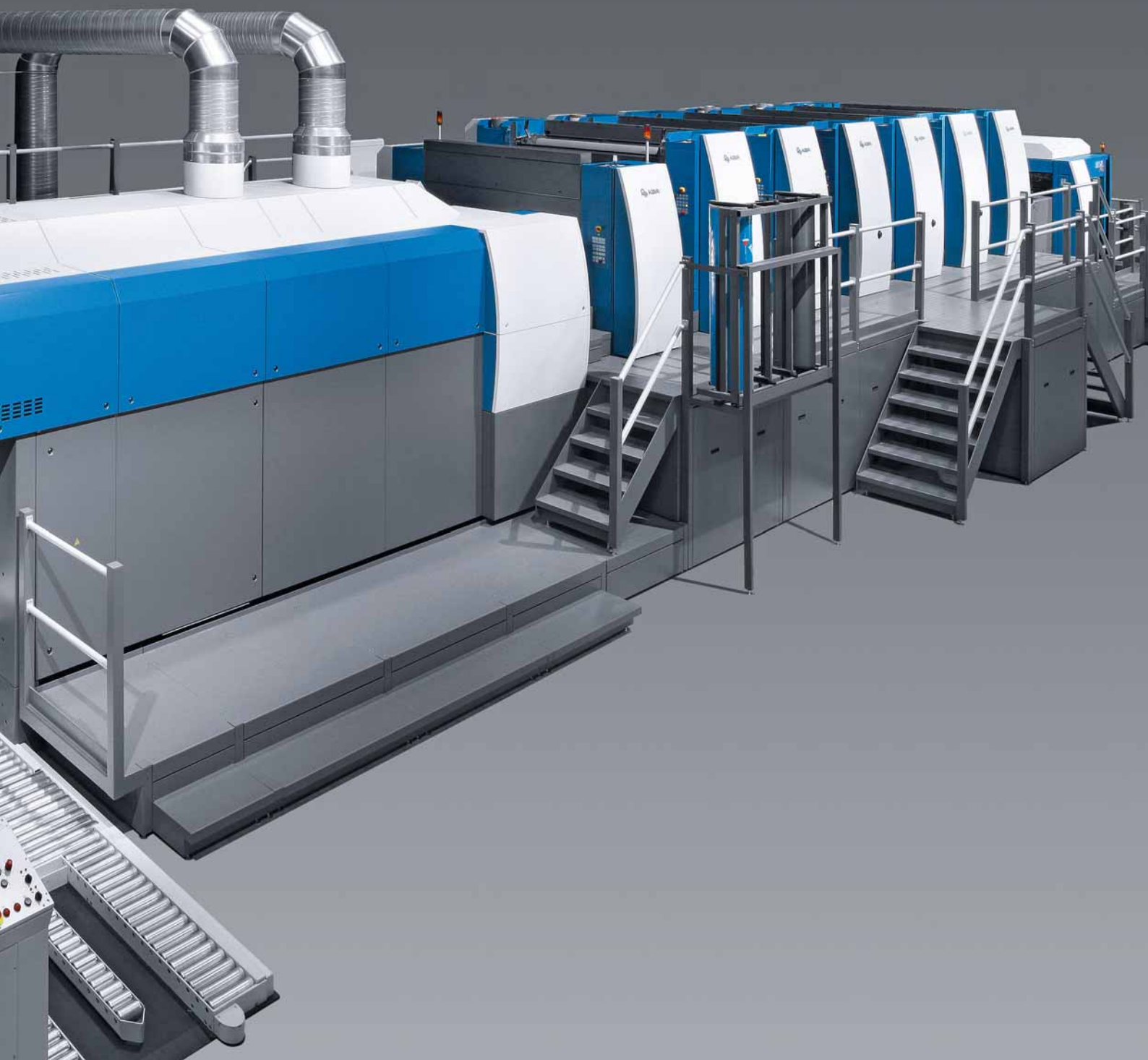
KBA Rapida 145

The peak performance class in large format



The new Rapida large format Peak performance redefined

Many of the ground-breaking innovations realised in the large-format Rapidas are unique in this format class. Some were transferred from the medium-format makeready world champion Rapida 106, while others were developed specifically for this new press.



True to the chosen motto "Time is money", the automation and operating concept of the new large-format series is geared to eliminating unnecessarily time-consuming factors.

Wherever possible, otherwise sequential makeready steps have been integrated into a simultaneous and essentially automated job changeover process. The raising of the maximum production speed to 17,000 sheets per hour on the Rapida 145 is a further gift to users focused on high volumes, for example packaging printers. But in commercial and book printing, too, the new large-format Rapida presses are an ideal answer to the trend of ever shorter runs thanks to their comprehensive automation capabilities.

Individually tailored models are available to suit the most varied needs, and enable you to serve every segment of your particular job structure profitably, efficiently and in ultimate quality.



DriveTronic feeder

Functionality and performance in perfect harmony

The DriveTronic feeder has been treated to a thorough makeover for the new Rapida large-format series and enables practically the whole substrate range from paper to heavy board to be handled with a universal setting. The extensive preset capabilities provide for near-perfect settings immediately after job changeover. With digital control on the basis of substrate-dependent characteristic curves, the DriveTronic feeder sets new standards with regard to smooth and reliable sheet transfer. The sensor-controlled pile side edge alignment and skew-sheet correction functions also safeguard optimum sheet travel up to the feed line.

Stepless and continuous pile lift

Digital drive control provides for an even and continuous pile lift, maintaining a constant height for separation and feeding of the sheet stream.

Automatic feeder head height adjustment

If the pile is not absolutely flat and instead slopes down towards the edges, any height differences are automatically compensated by the feeder head. If necessary, the height control can also be switched to front edge sensing without interrupting production.

Feed table

The multi-chamber suction-belt feed table features substrate-dependent control on the basis of characteristic curves for presetting and compensation of the air settings. Manual adjustments are no longer necessary. Two broad suction belts provide for optimum sheet transport down to the feed line, where arrival is supported by two vacuum drive elements.

DriveTronic Infeed

Motorised remote adjustment of the feed line and individual front lay adjustment render manual intervention superfluous. All settings can be saved as job-specific data and are thus available for fast presetting at any time in the future.

DriveTronic SIS

DriveTronic SIS replaces the conventional vacuum side lay. Lateral alignment of the sheet no longer takes place on the feed table. A sensor first detects the exact position of the sheet edge. During transfer to the first printing unit, the gripper bar of the feed drum then moves to the chosen side by the calculated pull distance. This leaves twice as much time for alignment of the sheet in the front lays. DriveTronic SIS requires no operator settings and guarantees ultimate alignment accuracy.

Operation

A key panel with intuitive pictograms is integrated into the front of the DriveTronic feeder. At the first printing unit, a combination of pictogram key panel and touchscreen permits fast and reliable navigation.

Press safety

Four intelligent sheet monitoring systems provide for safe passage of the sheets into the Rapida large-format presses:

- Mechanical multiple-sheet detector
- Sheet arrival timing control
- Skew-sheet sensors at the feed line
- Electronic pull distance monitoring



Printing units

The key to high print quality

Fundamental to the printing units of all Rapida presses is a substructure frame cast in a single piece with integrated bushings for the double-size impression cylinders and transfer systems. Each substructure is topped by a pair of tower side frames which are similarly one-piece box castings. This arrangement forms the basis for exceptional torsional rigidity and guarantees precise rolling of the cylinders.

Drive concept

Rapida large-format presses are driven via a single continuous gear train, while the cylinders run in multiple-row antifriction roller bearings. These bearings permit an absolutely play-free setting, and in this way provide for ultimate quiet running and precision.

Venturi sheet guiding

A completely new sheet guiding concept has been realised on the large-format Rapida series. The form and layout of the nozzles in the sheet guide plates are guarantees for contact-free sheet transfer and the greatest possible substrate flexibility. Speed-compensated Venturi fan systems force the sheets to follow the curvature of the guide plates without coming into actual contact. No manual settings are required even for extremely thick materials. And that also applies to the grippers! All air settings are preset-capable.

Inking unit – fast and slim

With their further improved, fast-reacting inking units, the large-format Rapida presses promise a high degree of repeat accuracy with presetting data. Optimum dissipation of the heat from rollers promotes fast attainment of an ink-water balance and reduces start-up waste accordingly.

Further highlights

- Disengaging of unused inking units – spares roller wear
- Remote control of oscillation timing
- Remote setting of vibrator frequency
- Ink train separation with impression-off
- Connection between inking and dampening unit switched from the console
- Characteristic curve for parameterised compensation of dampening unit speed
- Automatic pre-dampening program
- Oscillating bridge roller on the dampening forme roller
- Differential drive for the dampening forme roller to prevent the formation of hickeys; switchable from the console during production

ColorTronic ink ducts

The high repeat accuracy of previously set ink profiles can be attributed to the unique, bleed-free ink metering in the ColorTronic ink duct. The ceramic-coated duct roller for the new large-format press is characterised by its ultimate flexural rigidity. The ink duct calibration remains unchanged over even longer periods, and print quality is maintained at the highest level.

Summary of the benefits:

- Drive concept with continuous gear train
- New Venturi air-cushioned sheet guiding
- Fast-reacting inking unit
- Disengaging of unused inking units – spares roller wear
- Remote control of oscillation timing
- Characteristic curve for parameterised compensation of dampening unit speed
- ColorTronic ink duct without foils





Plate changes with DriveTronic SPC

You cannot get faster than that

DriveTronic SPC is now also available for large-format Rapida presses. Direct-drive motors on the individual plate cylinders replace the previous gear drive and open the door to parallel makeready processes previously unattainable in large formats.

Separate makeready processes can be completed simultaneously in the substructures and towers of the printing units. Plate changing runs parallel to blanket and/or impression cylinder washing and no longer influences the overall makeready time. Roller washing is started fully automatically after plate changing and is likewise a simultaneous process.

Intelligent assistant for the operator

With job changeovers running so fast, it is easy for mistakes to creep in. DriveTronic PlateIdent was developed to avoid precisely that situation. Two cameras are integrated into the guards of each printing unit and directed at the register pins on the plate cylinder. When active, these cameras detect the exact position of the plate by way of register marks. The system then calculates the necessary register corrections and already adjusts the cylinders before the first sheet even enters the press. At the same time, the Rapida can read job-specific information into the console from a data matrix code exposed onto the plate. These data are compared with the current press status and any irregularities are signalled to the operator immediately.

DriveTronic PlateIdent = One system with 3 functions:

Function 1: Optical plate detection during change process

Benefits:

- Replaces detection via the register pins
- More reliable plate changing process (fewer interruptions)

Function 2: Pre-registration

Benefits:

- Register correction already before the first print
- Makeready and waste savings

Function 3: Plausibility checks

- Job / Plates
- Plates / Printing Units
- Plates / Colour separations
- Language versions

Benefits:

- Fewer risk factors in calculations

Free choice of automation scope

KBA offers a diversity of user-oriented automation modules. Matched to your individual job structure, they help to secure maximum production output. Reliable operation and handling are learned intuitively in next to no time.

Summary of the benefits:

- DriveTronic SPC – simultaneous plate change
- Parallel makeready processes – plate change and washing
- DriveTronic PlateIdent – one system with 3 functions
- Fastest makeready in this format class
- Dramatic reduction in makeready waste

Available plate changing systems:

SAPC Semi Automatic Plate Change	FAPC Fully Automatic Plate Change	DriveTronic SPC Simultaneous Plate Change
<ul style="list-style-type: none"> - Automated plate change - Pneumatic opening and closing of the plate cylinder guard - Automatic rotation to the change positions - Automatic clamping and tensioning of the plate 	<ul style="list-style-type: none"> - Fully automatic plate change - Change process includes register zeroing - Plate change completed in 3 cycles - Parallel changing in several printing units - Faster, optimised change process with change time of 3 minutes - Divided rear plate clamps 	<ul style="list-style-type: none"> - Simultaneous, fully automatic plate change in all printing units - Plate cylinder direct drive with dedicated high-torque motors - Plate change parallel to other makeready processes
100 seconds per unit	All units in 3 minutes	All units in 100 seconds

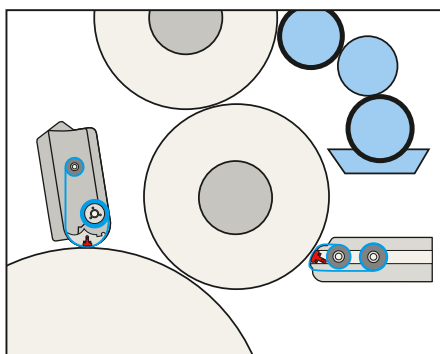


CleanTronic

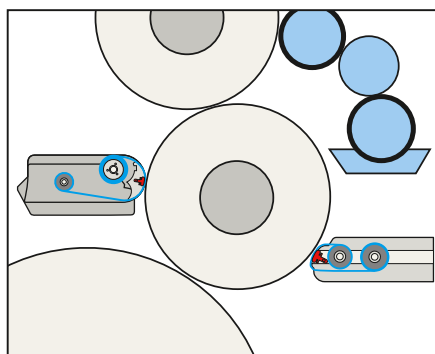
For outstanding washing results

The time spent on washing is a significant factor for press availability. The solutions of the KBA CleanTronic family have thus been developed specifically for maximum environment-friendly efficiency. Such combinations of simultaneous washing and press makeready were unthinkable until now, and peripheral tasks no longer affect print productivity. The cloth capacity of the washing spindles has also been increased, while the consumption indicator enables the operator to plan and take care of cloth replacement while the press is running. No need for stoppage and the press can remain in production.

Washing combinations with CleanTronic Synchro:



Blanket and impression cylinder



Blanket simultaneously with two washing beams

CleanTronic

CleanTronic is a multi-purpose washing system for rollers, blankets and impression cylinders. The blankets and impression cylinders are washed sequentially with a swing-action washing beam. Washing programs can be defined and selected independently for each printing unit at the press console.

CleanTronic Synchro

This system possesses two washing beams. The first is identical to that of the basic CleanTronic system. The second washing beam is fixed in position and is responsible only for blanket washing. CleanTronic Synchro can thus wash the blankets and impression cylinders simultaneously. The special feature, however, is that both washing beams can be applied to the blanket. The washing time is then practically halved. Especially in folding carton production, the facility for fast mid-production blanket washing brings extreme time benefits. The cloth rolls on both washing beams can be replaced during full-speed production. And as part of the ergonomic design, both washing beams are installed at the level of the blanket cylinder, where the space and light conditions are best.

CleanTronic ReInk

Ink roller washing has always been one of the most time-consuming makeready processes at the printing unit. With CleanTronic ReInk, however, KBA now offers a solution for high-speed washing of the inking units. The average washing time is reduced to just 90 seconds, which represents a time saving of up to 78 per cent. The washing process runs parallel to cylinder washing.

CleanTronic Multi

CleanTronic Multi was developed for users who need to switch frequently between different ink systems. Independent washing circuits are provided for the different solvent types (UV/conventional) and can be selected individually from the press console. The separate pipes and spray bars prevent any intermixing of the different solvents. CleanTronic Multi eliminates complex manual switching of the solvent systems and the associated cleaning of the solvent circuits.

CleanTronic UV

CleanTronic UV permits blanket washing to be done with the UV lamps in standby mode. The waiting times otherwise necessary to avoid the risk of fire before and after washing are no longer necessary. More efficient makeready and a longer service life of the UV lamps are further benefits of this system. A must for every UV printer.

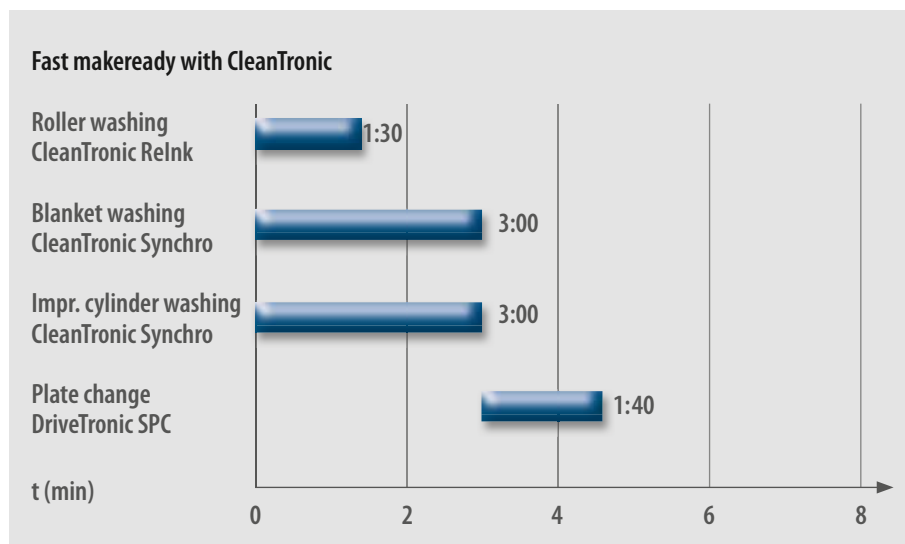
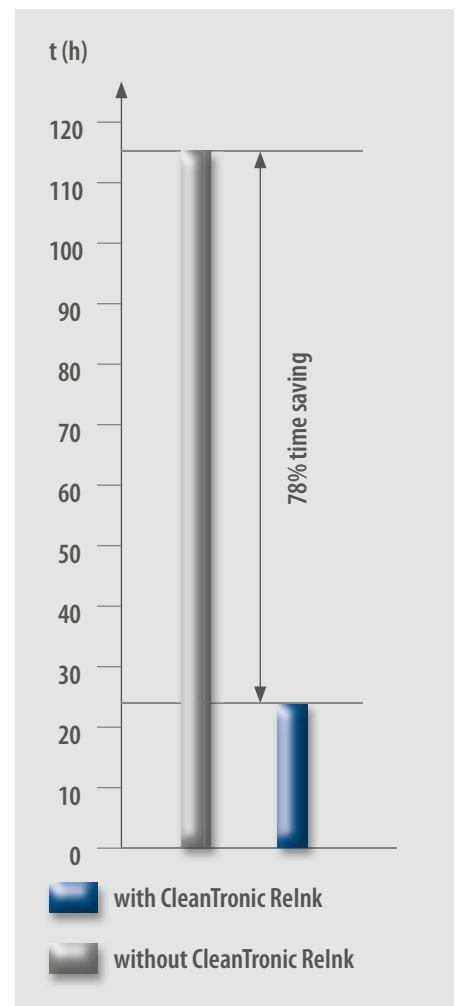
CleanPrint

Targeted stripping of the remaining ink from plate and blanket shortens washing times and can even replace blanket washing altogether with short runs.

Summary of the benefits:

- **CleanTronic Synchro** - Simultaneous washing during plate and coating forme change
- **CleanTronic Multi** - Multiple-media washing system
- **CleanTronic UV** - Washing with UV lamps in standby mode
- **CleanTronic ReInk** - Roller washing in 90 seconds
- Indication of washing cloth consumption
- Impression cylinder washing unit at the level of the blanket cylinder
- Washing cloth can be replaced during production
- Long length of cloth held on the spindle

Example for shorter washing times with CleanTronic ReInk





The new DriveTronic coater

Revolution in coating forme and anilox roller changing

There is little point in pursuing the last few seconds of makeready savings on the press while minutes are still being lost waiting for the completion of necessary processes at the coater. Consequently, the Rapida coater already promises the fastest makeready available in its standard configuration. And with the new DriveTronic coater, makeready time is reduced practically to zero, because almost all makeready processes can be handled simultaneously during plate changing or cylinder washing.

Coater tower

The standard coater tower features a chamber blade coating system with laser-engraved anilox roller. The printing pressure and the lateral, circumferential and diagonal register are set remotely from the ErgoTronic console. All positioning motions of the coating forme cylinder are fully automatic. The coating forme is clamped and tensioned pneumatically at the press of a button – without the need for tools of any kind.

DriveTronic SFC (= Simultaneous Forme Change)

The new DriveTronic coater with DriveTronic SFC (= Simultaneous Forme Change) offers the sensational possibility to change the coating forme during plate changing or washing processes on the printing units. If only one tower of a double-coater press is actually being used, coating makeready can already be done on the second tower while current production is still running.

The new AniSleeve system

To cater for job structures with frequent changes in the required coating application, the anilox roller is now available in sleeve form. The sleeve can be replaced with ease by a single person – and that similarly parallel to other makeready processes.

Coating supply

The fully automatic coating supply system is available with two separate circuits for dispersion and UV coatings. Individually defined cleaning programs ensure an excellent cleaning result and guarantee the immediate availability of the coating system for the next job. The coating supply is controlled centrally via the ErgoTronic console.

Intelligent Viscosity Logic (IVL)

Fully automatic filling level monitoring and viscosity-based pump control combine to prevent the chamber blade running empty. The IVL system immediately compensates any changes in coating viscosity, and in this way excludes the risk of a sudden loss of coating.

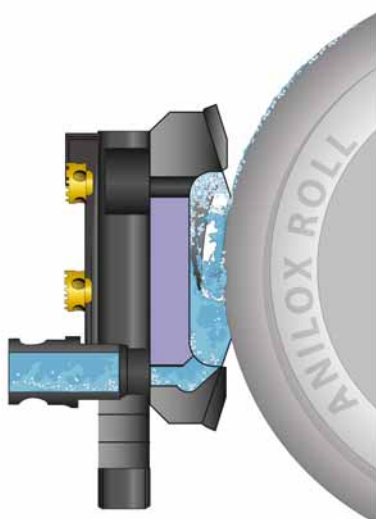
The HiFlow blade chamber

The filling volume of the HiFlow blade chamber has been reduced by approx. 70 per cent. The correspondingly higher coating flow velocity serves to prevent coating starvation and improves the handling of coatings susceptible to foaming. The HiFlow blade chamber forms the basis for maximum production speeds.

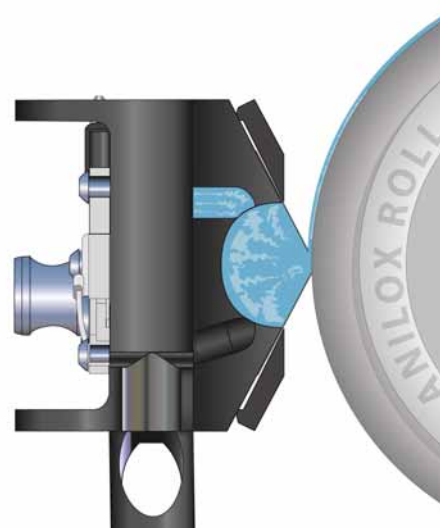
Summary of the benefits:

- Increased flow velocity for better processing of coatings susceptible to foaming
- Less risk of coating starvation
- Higher production speeds
- Significantly reduced risk of leakage
- Smaller chamber volume (approx. 1/3)
- Reduced coating and solvent consumption, and thus faster cleaning
- Less weight – simpler handling

Conventional chamber



HiFlow chamber



Comparison between a conventional chamber and the new HiFlow blade chamber

The Rapida large format



Rapida 145

Principal features

Cutting-edge console technology: Made by KBA

- ErgoTronic console with touchscreen for intelligent and straightforward handling
- Wall screen for visualisation of all press settings
- Job changeover program JobAccess for fully automatic and coordinated makeready
- Job profiles saved for repeat jobs
- ErgoTronic Professional console with diversity of additional online and inline solutions for quality management in the press
- Integrated remote maintenance module KBA PressSupport 24 Sheetfed with Internet link for remote maintenance and software updates
- Integration into KBA management system LogoTronic Professional

VariDry dryer systems: For every eventuality

- High-performance dryers VariDry IR/hot air, VariDry UV and VariDry HR UV
- Closed-loop dryer control
- Lamp replacement without tools
- VariDry^{Blue} technology for enhanced energy efficiency



AirTronic delivery: Full preset capabilities

- Aerodynamic gripper carriages for optimised air flows
- Venturi sheet guiding system
- Dynamic sheet brake with speed-compensated suction belts
- Speed-compensated and format-dependent powder metering
- Delivery extension for dryer modules
- Emission Extraction System (EES) to eliminate potential emission hazards
- KBA-specific non-stop solutions

Coater: Simply refined!

- Automated coating forme change
- DriveTronic SFC (Simultaneous Forme Change) for coating forme change parallel to other makeready processes
- AniSleeve: Sleeve-type anilox roller for fast changes
- Remote setting of pressure between anilox roller and coating forme
- Remote register setting
- IVL – Intelligent Viscosity Logic: Viscosity-controlled coating pumps
- Fully automatic coating supply system

CleanTronic: For outstanding washing results

- CleanTronic: Swing-action washing beam for sequential washing of blanket and impression cylinder; simultaneous washing of blanket and ink rollers
- CleanTronic Synchro: System with two washing beams for simultaneous washing of blanket, impression cylinder and ink rollers
- CleanTronic ReInk: High-speed roller washing



Plate change: You cannot get faster than that

- Automated plate change SAPC
- Faster, optimised change process for fully automatic plate change FAPC (Fully Automatic Plate Change)
- DriveTronic SPC (Simultaneous Plate Change) for simultaneous plate changes parallel to other makeready processes
- DriveTronic PlateIdent for register presetting and plate identification directly on the press

Inking unit: Perfection in colour

- Inking unit optimised according to latest rheology know-how with regard to ink flow and distribution
- Maximum repeat accuracy through bleed-free metering in the ColorTronic ink duct
- Stepless adjustment of the oscillation timing from the control console during production
- Ink train separation with impression-off
- Individual engaging/disengaging of inking units for reduced roller wear and minimised makeready times
- Inking unit temperature control for duct roller and oscillating distributors, especially advantageous for waterless technology
- Speed-compensated VariDamp film-type dampening unit

Printing unit: Clockwork precision

- Continuous gear train for smooth running and excellent precision
- Venturi air-cushioned sheet travel for contact-free sheet transfer
- Air settings can be set and saved at the ErgoTronic console for repeat jobs
- Universal gripper system accommodates all changes in substrate thickness
- Mechatronic remote setting of lateral, circumferential and diagonal register
- Automatic setting of the substrate thickness
- Two-stage pneumatic impression on/off switching



DriveTronic SIS (Sensoric Infeed System):

- Patented KBA sheet infeed system
- Electronically controlled lateral sheet alignment
- Gentle sheet positioning with the highest possible accuracy
- Integration into automatic format setting eliminates all need for operator intervention

DriveTronic feeder: Dedicated drives for ultimate ease of operation

- Suction-belt feed table with electronically controlled sheet deceleration
- Motorised remote adjustment with DriveTronic Infeed for front lays, feed line and front lay cover height
- Automatic format setting and pile side edge alignment
- Touchscreen display with direct function keys for reliable and intuitive press operation
- Ultrasonic double-sheet detector
- KBA-specific non-stop systems for uninterrupted production

***Benchmark
in Peak Performance***



KBA VariDry dryer technology

Made by KBA

With the KBA VariDry family of high-performance dryers, you can be sure of the best drying results – for both conventional and UV applications. The individual modules are matched perfectly to the press geometry and can be used with maximum flexibility for either intermediate or final drying. The environment also gains: The newly developed, energy-saving VariDry^{Blue} system recirculates the still unsaturated dryer air and in this way reduces the necessary heating energy input. Depending on the job, you can save up to 50 per cent compared to conventional dryer systems! Energy is used more efficiently and environmental impacts are reduced.

VariDry infrared and hot air

The VariDry system is fully integrated into the ErgoTronic console. Automatic pile temperature and stepless dryer control help the operator to determine the optimum settings. The carbon twin lamps with an IR power rating of 80 W/cm can be replaced without tools and are furthermore suitable for installation in a separate dryer tower.

VariDry^{Blue}

VariDry^{Blue} is an energy-efficient infrared/hot-air drying system, with newly developed hot-air nozzles for an optimised air flow. The ready-heated drying air is recycled within the extended delivery. This reduces the volume of intake air to be heated and lowers the energy consumption of the heater unit. Closed hoods above the dryer modules serve to minimise heat losses. The result is an energy-saving potential up to 50% compared to conventional IR/hot-air dryers.

VariDry UV

The compact dryer modules feature stepless control and a UV power rating up to 200 W/cm. A special plug-connector system was developed for the power supply and water cooling, ensuring fast and simple installation of the modules. If required, UV final drying modules can also be used as interdeck dryers. The operating hours are counted fully automatically for each individual lamp, irrespective of where it happens to be installed on the press.

Summary of the benefits:

- Dryers are in-house developments from KBA
- UV modules can be switched freely between installation positions
- Electronic operating hours counters for individual modules
- Lightweight UV modules
- High-performance VariDry infrared and hot-air dryers
- High efficiency, also at maximum production speed
- VariDry^{Blue} – up to 50% energy saving
- Automatic pile temperature and dryer control



AirTronic delivery

Productive and reliable

The newly designed AirTronic delivery of the large-format Rapida presses has been developed specifically for high-speed production with the most varied substrates. It stands out from the crowd with a consistently ergonomic operating concept and comprehensive preset capabilities. All settings can be accessed from the ErgoTronic console via modern, clearly structured screen menus. A touchpanel at the delivery itself places key functions at the operator's fingertips. The new Venturi sheet guiding system is characterised by smooth sheet transfer even at speeds up to 17,000 sheets per hour.

AirTronic sheet guiding

The AirTronic delivery incorporates KBA's new Venturi sheet guiding concept. Access to the extended delivery sections is both straightforward and safe. The Venturi guide plates can be dropped down without tools for easy cleaning. The new shadow-free aerodynamic gripper carriages minimise the air turbulence affecting powder spraying. In addition, the AirTronic delivery features a speed-compensated gripper opening cam to accommodate a wide range of substrates. Blower bars and fan modules above the pile provide for gentle and precise sheet delivery. All settings can be made remotely and saved as preset data.

Extended delivery

The AirTronic delivery can be extended by either 2.6 or 3.9 metres. The extension modules provide installation space for an individual choice of VariDry dryer systems.

Sheet brake

The sheet brake installed in the AirTronic delivery is matched to the field of application of the individual press. Pre-suction wheels ahead of the sheet brake module can be set at an angle to keep the tail of the sheet smooth. Board presses possess heavy-duty suction elements with high vacuum power. Substrate-dependent control of the suction intensity brings the large-format Rapidas up to full production speed immediately after each job changeover.

Emission Extraction System EES

The delivery extraction systems safeguards a pleasant work environment for the operator. Where appropriate, the emission-laden air can also be passed via a filter before release into the atmosphere.

Summary of the benefits:

- New Venturi sheet guiding
- New aerodynamic gripper systems
- New dynamic sheet brake
- Very low emissions
- Fast makeready
- 100% preset capabilities
- Stable production up to 17,000 sheets/h



The new ErgoTronic console

User-friendly

The completely new ErgoTronic console is a workplace to warm the heart of any printer. Clear and intuitive user interfaces, an ergonomic design and the giant wall screen with picture-in-picture function are features which more than justify the label "user-friendly".

ErgoTronic

- Touchscreen for ergonomic access to all press functions
- Wall screen for visualisation of all press settings
- Live image from QualiTronic ColorControl on wall screen
- Ink profile displays on console
- Integration with existing DensiTronic Professional possible
- Motorised console height adjustment with memory function
- Integrated remote maintenance module KBA PressSupport 24Sheetfed with Internet link for remote maintenance and software updates

ErgoTronic Professional – ErgoTronic with integrated measuring systems

In addition to the standard ErgoTronic features

- Sheet inspection desk as vacuum board with fixed desk angle
- ErgoTronic ColorControl for density and Lab measurements
- ErgoTronic ICR for register control

Online quality monitoring systems

ErgoTronic ColorControl

is an automatic colour measuring system. Its motorised measuring head is able to scan control strips at any position on the printed sheet. The position of the control strip in the direction of print is set as a motor parameter.

ErgoTronic ACR

Register measuring system with hand-held measuring head. Register marks on the printed sheets are evaluated and the control function then calculates the necessary corrections for lateral, circumferential and diagonal register.

ErgoTronic ICR

is an automatic register measuring system. Its motorised measuring head evaluates register marks on the printed sheets. The control function then calculates the necessary corrections for lateral, circumferential and diagonal register.

DensiTronic PDF

Expansion module for the ErgoTronic Professional console: A high-resolution, full-format scanner to compare the freshly printed sheet with data from pre-press. Comparisons are performed with a PDF file for either the whole sheet or individual blanks.

Control console functions (dependent on incorporated options)

- Job-specific saving of all relevant press parameters for repeat jobs
- Remote register setting
- Integration of “Instrument Flight” for extended colour control
- 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 docket
- Preview images

Job changeover program

- Preparation of the next job while production is still running
- Format and substrate thickness
- All substrate-specific air settings
- Ink profiles
- Washing functions
- Automatic execution of all preselected makeready processes in time-optimised order

LogoTronic

- Ink profile presetting via CIP3 data

LogoTronic Professional

- Comprehensive management system for KBA presses:
- CIP3/CIP4 interface to prepress
- JDF/JMF 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

Summary of the benefits:

- Ergonomic operating concept
- Wall screen with picture-in-picture function
- Console-integrated measurement and control systems
- Integrated remote maintenance module
- Job changeover program
- Integrated substrate database
- Complete production data acquisition
- Creation and printing of pile docket



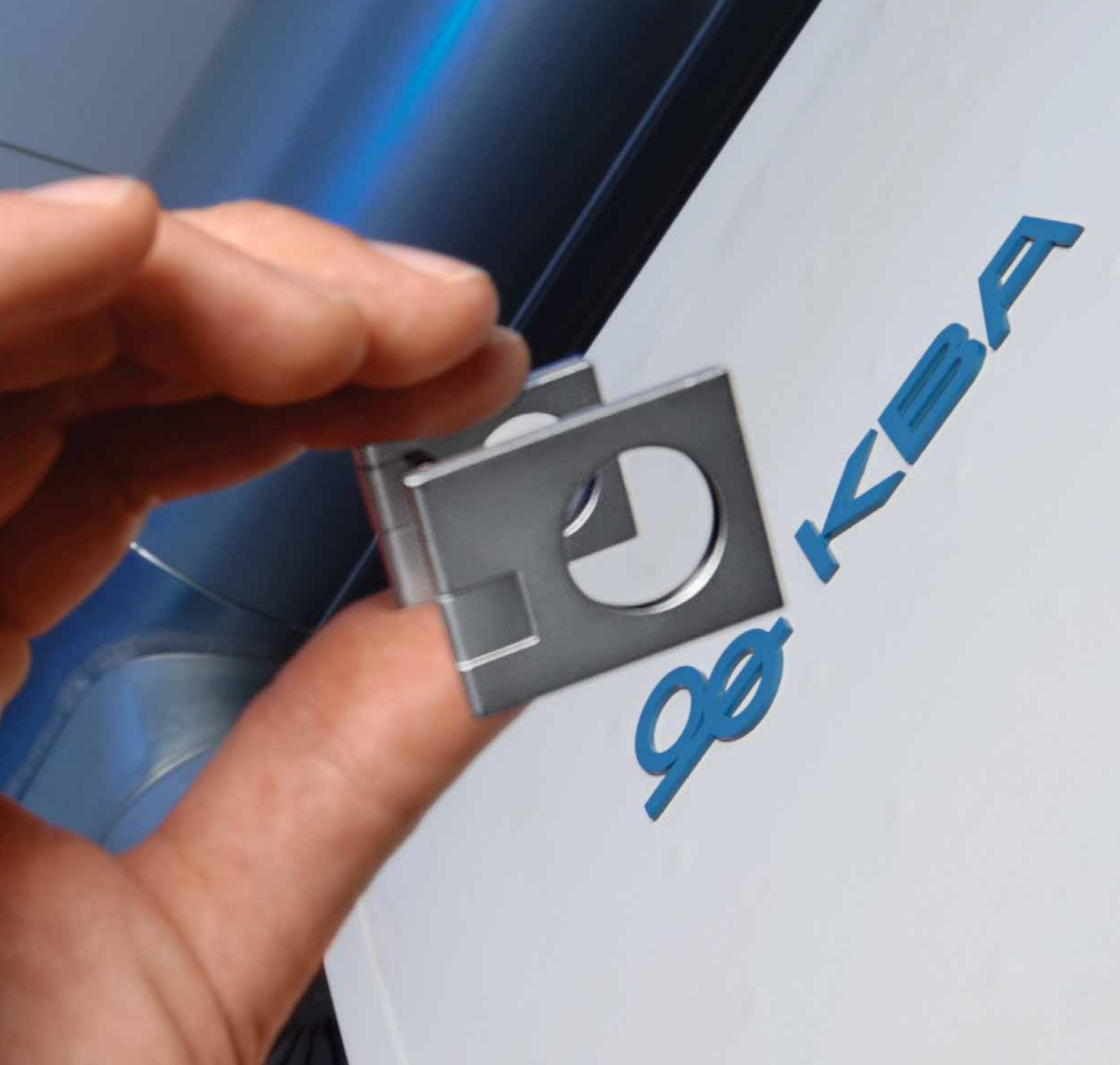
New dimensions of quality

Inline or online

Runs and turnaround times are becoming ever shorter, but the demands placed on print production in terms of topicality, quality and economic efficiency continue to grow constantly nevertheless. Against this background, new ideas and approaches to press engineering are absolutely imperative. Online and inline quality management systems, for example, are gaining ever greater importance. KBA has implemented all the latest advances, and offers future-oriented solutions for print quality control on its large-format Rapidas.

Register

- ErgoTronic ACR (Automatic Camera Register) for automatic measurement and control based on individual sheets via a separate video magnifier
- ErgoTronic ICR (Integrated Camera Register) for fully automatic register control on the sheet inspection desk
- QualiTronic ICR for fully automatic register control in the press



Colour measurement

- Online colour measurement and control system ErgoTronic ColorControl on the console desk to determine colour densities and (optionally) spectral values in colour bars and in the image
- Inline colour measurement and control system QualiTronic ColorControl to determine density values in colour bars on the press itself
- Integration of "Instrument Flight" for extended colour control based on grey balance/tone value measurements, alongside solid densities

Quality control

- QualiTronic Professional is an inline sheet inspection system, combining with QualiTronic ColorControl for inline colour measurement and control Inline to form a "Total Quality System"
- QualiTronic "quality reports" for automatic documentation and certification for presentation to the final customer

- Automated image inspection and quality assurance system DensiTronic PDF assumes the functions of a proof reader: In addition to errors in the printed image (layout, text content), it provides for detection of irregularities on the blanket and plate, as well as visible colour deviations
- Digital magnifier ErgoTronic ImageZoom
- Live image display

PileTronic

Logistics system solutions

The KBA-specific non-stop systems at the feeder and delivery allow for uninterrupted production and smooth pile changes. The PileTronic concept offers individually tailored system solutions to meet a sheer boundless variety of logistics needs. Even between floors or over long distances, large-format Rapida presses are integrated seamlessly into your chosen logistics set-up.

Summary of the benefits:

- Saving of start-up waste
- Less interruption of production
- Increased productivity
- Proven logistics modules
- Elaboration of customer-specific solutions

Non-stop operation at the feeder

- Fully automatic non-stop system with sensor-monitored rake for pile transport and pile reunion
- Pile insertion and removal possible from all three sides

Non-stop operation at the delivery

- Non-stop pile change possible at full production speed
- Lowerable non-stop roller rack extended automatically above the main pile
- Sensor monitoring for lifting/lowering of main and auxiliary piles

PileTronic

- Networking of press control, non-stop pile changing systems and pallet supply for efficient print production



1: Pile turner: Replaces disposable pallets with non-stop system pallets



2: Fully automatic system pallet dispenser for the pile turner



3: Turntable for routing of the pallets. Floor height differences can also be overcome with a lifting action



4: A remote-controlled trolley takes the pile from the roller track and brings it to the predetermined location. This location can be specified by way of an EAN code



5: The pile is moved off the trolley and into the park position in front of the feeder



6: The empty pallets from the feeder are automatically turned, stacked and returned to the pallet dispenser at the pile turner



Remote diagnosis and maintenance

Boundless and convincing

The remote maintenance module which is incorporated into every press console as standard is your direct line to KBA. We are at your call with advice and practical support 24 hours a day, seven days a week. Just in case you ever need our assistance. With operating and setting tips, or online error diagnosis and rectification to get your press back on track without delay. Service visits and spare parts supplies, too, are coordinated immediately and without ado – worldwide. Data security? As remote maintenance can only be activated explicitly on the user side, the privacy of your data is guaranteed at all times.

Remote maintenance

- Integrated remote maintenance module in every press
- Most comprehensive remote maintenance functionality and longest experience on the market
- Access to individual printing unit controllers possible
- Fast assistance and problem remedies in up to 80% of all cases – without need for service visit or spare parts
- Telephone hotline free of charge during the warranty period
- Immense time and cost savings
- Increased availability of the press

Spare parts service

- Comprehensive product and quality tests for original KBA parts
- Competent and efficient advice from our service specialists
- Guarantee of outstanding precision and quality, high reliability and maximum service life
- Spare parts incorporating the latest state of the art
- High availability of over 2.5 million parts
- Fastest possible delivery of spare and accessory parts

Retrofits

- Adaptation of already installed presses to changing market conditions
- Possibilities to shorten makeready times, reduce waste or further improve quality
- Considerable experience gained in the course of many successful modernisation projects
- Comprehensive measures to raise press productivity possible

KBA Rapida 145

Technical data

Sheet format:		
Maximum	1,060 x 1,450	mm
Minimum	500 x 600	mm
Print format:		
Maximum	1,050 x 1,450	mm
Substrates¹⁾:		
Standard	0.1 – 0.7	mm
With lightweight package	< 0.1 – 0.7	mm
With board-handling package (from approx. 450 g/m ²)	0.1 – 1.2	mm
With corrugated package	0.1 – 1.6	mm
Gripper margin	10 +/-1	mm
Production speed²⁾:		
up to 7 printing units + coater	15,000	sheets/h
up to 8 printing units + coater	14,000	sheets/h
up to 7 printing units + double coater	14,000	sheets/h
up to 9 printing units + coater	13,000	sheets/h
10 printing units	13,000	sheets/h
With high-speed package³⁾:		
up to 7 printing units + coater	17,000	sheets/h
up to 8 printing units + coater	16,000	sheets/h
Pile height from floor:		
Feeder	1,500	mm
Delivery	1,500	mm
Feeder in non-stop operation	approx. 1,000	mm
Delivery in non-stop operation	1,400	mm
Press raised on strip foundations:		
Possible heights	210 / 420 / 630	mm
Plate and blanket dimensions:		
Plate size	1,180 x 1,460	mm
Standard copy line	72	mm
Blanket size	1,305 x 1,480	mm

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⁾ High-speed package not available for double-coater presses

KBA Rapida 145
from Koenig & Bauer AG

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