



KBA RAPIDA 185/205

The modern press generation
for sheetfed offset in XXL and XXL^{plus} superformat



No half-measures

All-new design

The benchmark in superlarge format knows two names: Rapida 185 and Rapida 205. Since the arrival of these presses, the whole world of sheetfed offset printing in XXL formats has been redefined.

KBA superlarge-format presses are today available in countless configurations, from straightforward four and five-colour versions to special-purpose presses with 12 units and sophisticated inline coating systems, in all cases featuring a level of automation on absolutely level par with that of the Rapida series for medium and large formats. In fact, a number of the options for the smaller presses are even standard on the Rapida 185 and Rapida 205. The superlarge-format press is thus in no way merely a “blown-up” Rapida 162. The laws of physics alone already necessitated a totally new press design.

With its maximum production format of 1.51 x 2.05 metres, the Rapida 205 is today the largest sheetfed offset press on the market in terms of sheet size. But not only that. The press boasts a print area of more than three square metres, and nevertheless performs at speeds of up to 9,000 sheets per hour. That adds up to an output of almost 28,000 square metres of print per hour for users of the Rapida 205.

Presses in this format class were originally expected to excel as efficient means of production for poster printers.

And they are still today dependable workhorses in this market segment. Alongside, however, a broad spectrum of further applications has evolved: Rapida 185 and 205 presses are already in successful operation in the most diverse fields from calendar and book production, via POP displays to large-format and high-volume packaging.

Take a look for yourself and experience the fascination of incomparable performance on the Rapida superlarge-format presses – and your new opportunities in XXL sheetfed offset.



Format-focused features

For all eventualities

A sheet pile for the giant formats of the Rapida 185 and 205 presses can easily weigh up to three tonnes, and this load has to be carried and transported safely and reliably by the pile board in the feeder.

Feeder

Unique in the modern sheetfed offset arena, and an enormous advantage especially for superlarge-format users, is the shaftless feeder of the Rapida presses (DriveTronic Feeder). Dedicated electronic drives take care of the exact timing of all feeder motions, namely:

- drive for the feeder head
- feed table belt drive with sheet deceleration at the front lays
- drive for the main pile with jerk-free continuous pile lift
- drive for the auxiliary pile (for non-stop operation) with jerk-free continuous pile lift

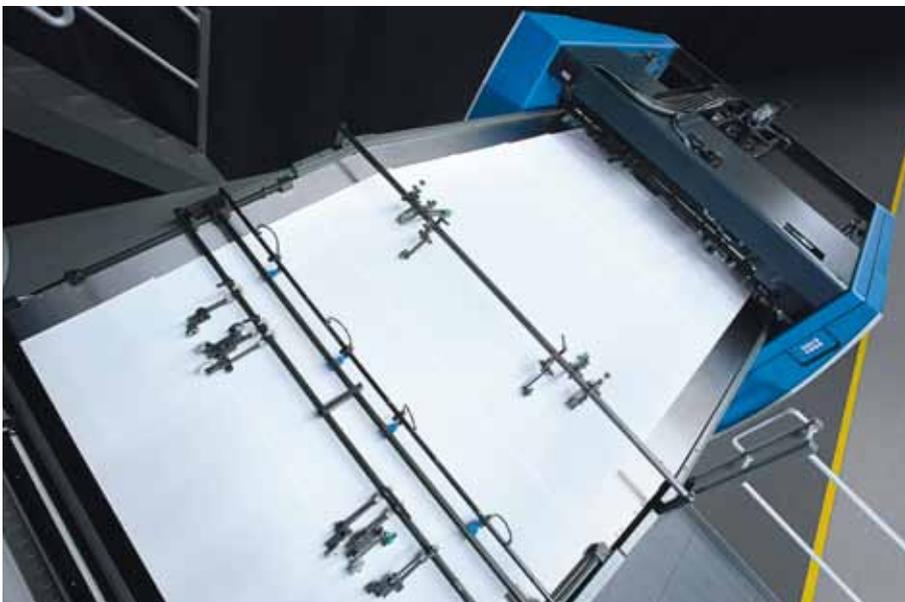
The electronically controlled AC drives function without the previously indispensable mechanical link to the drive of the press itself. They ensure

a constant pile height relative to the feeder head with no differences due to stepping intervals. The pile lift, at the same time, is much smoother – also at the point of pile reunion in non-stop operation. Numerous components prone to wear, such as timing gears, cardan shafts, belt drives, etc., are rendered superfluous.

Sheet sensors

The Rapida 185 and 205 presses can be equipped with two different double-sheet sensors. The standard ultrasonic double-sheet detector is an ideal choice for practically the whole range of substrates from paper to board, and even metallised stocks. For thicker substrates such as multi-ply or corrugated board, it can be complemented by an optional capacitive sensor.

Feed table with two wide suction belts. The mechanical drive shaft between the feeder and the first printing unit has been eliminated.



Sheet infeed

Facilities for central setting of the front lay cover height, motorised skew correction of the infeed line and parallel variation of the gripper margin from the console enhance the ease of operation at the infeed. Motorised positioning of the front and side lays is a standard feature. Guide rollers can be added to optimise the handling of rigid materials such as heavy board or even corrugated stock. A timed-action guide shaft, furthermore, assists precise transfer of the sheets into the press.

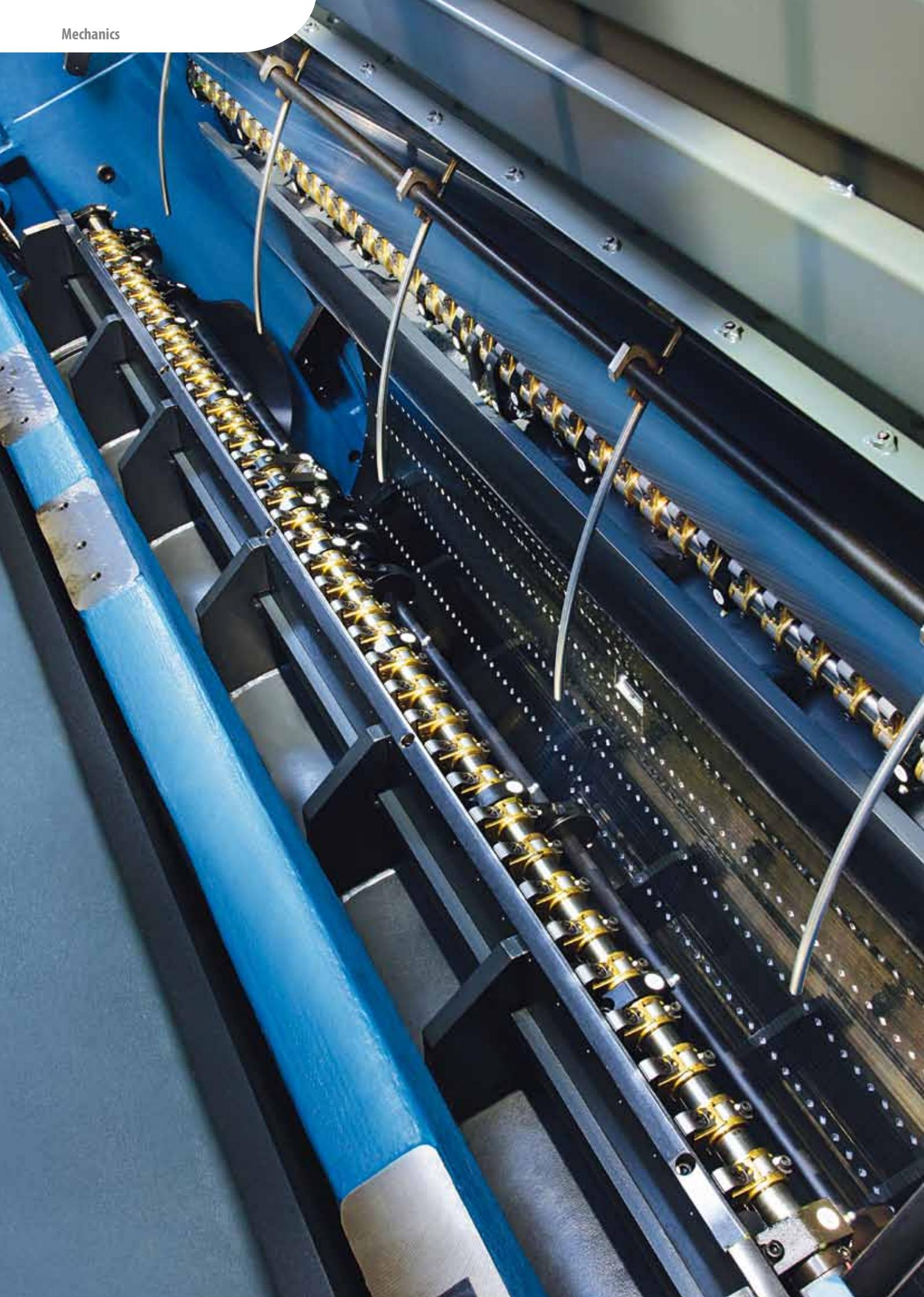


DriveTronic Feeder with automatic non-stop facilities: No need to forego fully automatic pile changing even in XXL^{plus} format

For dusty stocks, an optional dust extraction system can be added to the press configuration to minimise the occurrence of hickeys and to save the resultant additional washing times.

Gentle acceleration

The infeed maintains the widely proven principle of a swing arm operating from below, combined with timed pneumatic and mechanical sheet guiding elements for reliable and scratch-free feeding of the sheets to the feed drum.



Robust and vibration-free

All cast in the same mould

The printing units of the Rapida 185 and 205 comprise a monolithic substructure box with mounted inking unit towers. This superior design principle is the key to the outstanding rigidity of the printing units.

Substructure box

Unlike alternative substructure designs where individual elements are bolted together, this design solution is immune to deformations, even under extreme loads.

After assembly, the direct, tight joints between the Rapida substructures mean that the whole press is effectively a single torsionally rigid block, carrying the printing towers. This modular design permits identical substructures to be used not only for all printing units, but also for coater and dryer towers.

Drive

The Rapida 185 and 205 presses are driven by a single motor, irrespective of the number of printing units. The drive power is always introduced to the first impression cylinder gear, from where it is distributed exclusively via a single continuous gear train.

Fast-rotating drive components are often a source of vibration. The practice-proven Rapida drive technology, based on precisely manufactured helical gears, is able to eliminate the typical origins of vibration, such as longitudinal drive shafts, transmission gear boxes and bevel gears.

Bearings

In view of the higher bearing forces which necessarily arise with bearer-to-bearer operation, the use of plain slide bearings involves a much greater risk of bearing damage compared to antifriction roller bearings. It must elsewhere be countered by incorporating a defined play into the system, though this in turn brings negative effects for the print result.

Play-free multiple-row antifriction roller bearings for the plate and blanket cylinders

Grippers

All Rapida gripper systems operate with a universal gripper bar spacing. This superior design solution means that there are no adjustments whatsoever to be made to the grippers to accommodate changes in substrate thickness.

Further support for sheet transport is provided by the roughened, ceramic-coated gripper tips and the serrated gripper pads with flexible plastic inlays. The gripper tips are characterised by their high friction values and wear resistance. The technology used not only permits reduction of the gripper pressure, but also achieves a constant self-cleaning effect to significantly enhance the service life of the grippers.

Together, these components stand for utmost precision at sheet transfer.

Box cast in a single piece





Cleverly designed air systems provide for high substrate flexibility

Sheet travel

Slim and flexible

Both the Rapida 185 and Rapida 205 remain true to the sheet travel principles of their smaller sister presses. Double-size impression cylinders and transfer systems are also standard features of this press class from KBA. The proven "7 o'clock" cylinder arrangement has similarly been preserved.

Impression cylinders and transfer systems

The double-size impression cylinders and transfer systems guarantee low-curvature sheet travel placing a minimum of stress on the sheet. This cylinder geometry has proven particularly advantageous for a wide substrate flexibility. A day's printing schedule can vary from lightweight papers right up to N, G, F or even E-flute board. To help minimise makeready times, all important settings can be made remotely from the central

ErgoTronic control console, where the graphic screen input boxes have been arranged for maximum ergonomic convenience.

Reliable sheet transfer ...

Sheet travel is based on an aerodynamic paradox, whereby fans and guide plates beneath the gripper transfer points are able to create a so-called vacuum air cushion. This provides for smear-free and constantly stable sheet transfer through

the whole press. The settings for the air systems are transmitted synchronously to all the printing units from the control console, for which purpose optimised settings can be saved, and recalled at any time later for fast press presetting in the case of repeat orders or new jobs using the same substrate.

Drum shells and cover plates limit the flexibility of a press and also restrict access to the individual printing unit substructures. For this reason, the Rapida presses are designed for smooth sheet travel without drum shells or cover plates. Removable sheet guide plates facilitate maintenance and service work.

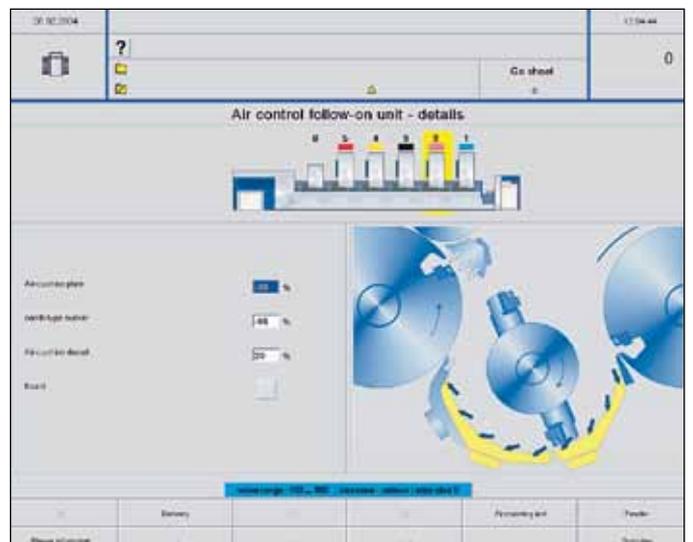
... for paper and board

For materials up to 200 g/m², so-called comb suckers smooth the sheets as they enter the new impression gap and in doing so prevent slapping against the blanket cylinder. Further system components are available to handle heavy and corrugated boards. All electronically controlled components can be adjusted from the ErgoTronic control console, where their settings are also saved for repeat jobs. For the handling of extremely rigid substrates, a blower bar system assists the passage of the sheets at the impression gaps. The mechanical sheet guiding equipment for heavy stocks comprises special guide bars above the impression cylinders.



Double-size impression cylinders and transfer systems provide for low-curvature sheet travel

Air settings can be regulated finely from the control console



Ink and water

Fast reactions and process stability

The superlarge-format Rapidas are equipped with inking and dampening units to satisfy even the most exacting quality demands. An exceptionally short inking unit with just 16 rollers provides for fast reactions, low start-up wastage, production stability and short washing times.

The ink keys of the ColorTronic ink ducts each cover a 30 mm zone. The tips of these ink keys are carbide blades. In combination with the ceramic-coated duct roller, they ensure that the whole metering system is able to operate free of wear. The function principle of the ink keys guarantees exact, bleed-free separation of the individual zones and renders equalisation software superfluous. The fact that the duct roller is driven synchronously with the press provides for a fast ink transfer from the metering point to the vibrator roller. Requested ink metering corrections are realised quickly and without fluctuation. The special locking mechanism at the ink duct ensures a constant clearance between the metering elements and the duct roller and contributes similarly to a high degree of reproducibility.

Process stability and quality

The open inking unit geometry provides for optimum heat dissipation. A further positive effect is fast attainment of a correct ink-water balance. The outstanding process stability this brings ensures that the printed products satisfy the highest quality demands. An absolute minimum of maintenance and adjustment, as well as fast removal and replacement of the rollers, are similarly clear illustrations of the user-friendly design.

Schematic representation of the inking unit



Heat exchanger of a glycol cooler





Dampening unit

The Varidamp film-type dampening unit is a four-roller unit with an additional oscillating bridge roller which can be set to various operating positions. The speed of the dampening unit is automatically matched to the press speed to ensure a uniform application of dampening solution. A switchable differential drive, which can also be activated during production, serves to remove hickeys. For more stubborn cases, additional manual hickey-pickers can be applied to selected zones of the plate.

Inking unit temperature control

The superlarge-format Rapida presses are already prepared for the installation of inking unit temperature control in their standard versions. This means that the duct roller and the three distributor rollers already possess the necessary bores for coolant circulation, which minimises the financial outlay for retrofitting of the full system.

One concept for controlled dissipation of the heat arising from the press and its peripherals is a closed-circuit glycol

cooling installation. The use of water-cooled peripherals in conjunction with a central recooling system is able to reduce heat emissions in the printshop by up to 50%.

The system components which can be integrated into an external cooling circuit are:

- Inking unit temperature control and dampening solution conditioning
- Air cabinets
- Dryer cabinets
- Dryer modules



Multi-purpose washing system

Washing in half the time

The Rapida superlarge-format press generation is the product of consistent further development on the basis of experience gained in daily printing practice with the Rapidas 130-162a.

One important element is the multi-purpose washing system for impression cylinders, blankets and plates. The actual washing principle implemented on the Rapida 130-162a presses has been maintained, though numerous detail modifications have permitted further optimisation.

The washing beam of the new system travels along a linear path, with a rack-and-pinion combination providing for pivoting of the beam at the three different positions for plate, blanket and impression cylinder washing. The advantages are to be seen in the greater positioning accuracy and reduced wear to the system components.

Even greater efficiency

In conjunction with the Impact washing system, blanket and roller washing can now be performed simultaneously (CleanTronic synchro). Cloth replacement is very simple and can be handled by a single operator. A further benefit of this system is the precisely controlled fabric advance by way of an electric motor, which provides for more effective utilisation of the cloth. The length of cloth is measured during the winding onto the permanent spindle in the washing beam. The printer is informed

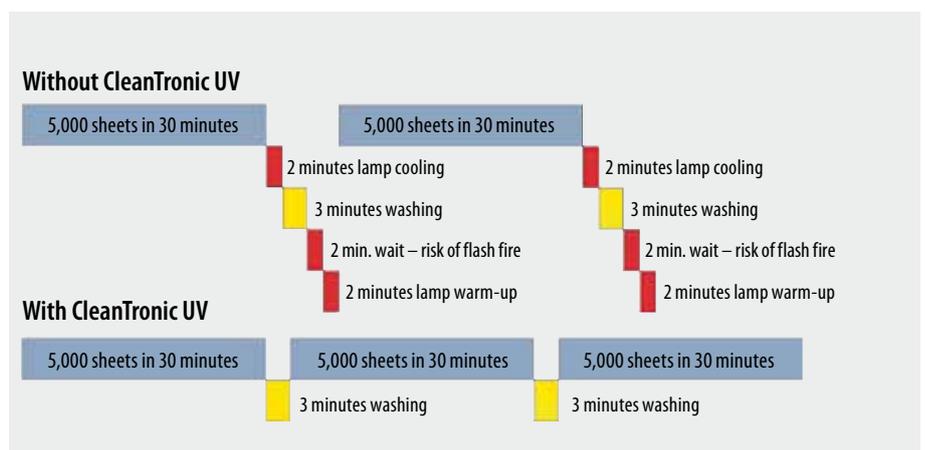


as to the remaining cloth length and the corresponding number of washing cycles via the console monitor and can prepare the imminent replacement in good time.

CleanTronic UV

The waiting times prescribed by industrial safety legislation for the drying systems on UV presses naturally have a negative effect on production efficiency. Two minutes standstill must be taken into account for the lamps to cool before washing, and a further two minutes standstill for evaporation of the solvent after washing. With CleanTronic UV, the certified UV interdeck dryers from KBA can remain in standby mode during blanket washing. This represents a decisive plus for productivity for UV and hybrid applications.

Time savings with CleanTronic UV
(basis: 2 washing cycles per hour)



FAPC: Automatic Plate Changer

Simple and precise

For a modern sheetfed offset press in this format class, the attainable printing speed is by no means the sole parameter determining business success. Another essential factor is the time spent on plate changing during makeready. FAPC – Fully Automatic Plate Changer – sets the standards for the superlarge-format sector.

FAPC – Fully Automatic Plate Changer

All Rapida 185 and 205 presses incorporate the fully automatic plate changing system FAPC as a standard feature, and are thus able to achieve plate changing times which have in the past only been known from smaller format classes. When they reach this size, the plates naturally call for a different form of handling. For this reason, the operator is offered an optional lifting facility for loading and unloading of the plate holders on the tower guards.

The Rapida presses are equipped with single holders rather than plate cassettes, so as not to place unnecessary limitations on flexibility. The new plates can already

be placed in the holders in advance. The actual change process is then activated from the control console, with the first step of the process being automatic zeroing of the register settings in the selected printing units. To enable manual register corrections – which are by no means unusual on sheets of this size – the rear clamping bars are split into four sections. FAPC changes the plates in two cycles, taking no more than approx. 3 minutes to do so – irrespective of the number of printing units involved.



Split rear clamping bars facilitate any manual register corrections

FAPC in action





It could hardly be simpler: Working with ErgoTronic ACR

ErgoTronic ACR: Spot-on accuracy

Automatic Camera Register Control (ErgoTronic ACR) provides the operator with an extremely efficient system for fast colour registration even for this giant format.

ErgoTronic ACR comprises a camera and the corresponding software. It determines any register differences, and calculated correction values are then transmitted automatically to the lateral, circumferential and diagonal register systems on the individual printing units.

To be able to make proper use of the automatic function, it is necessary to

overlay special measuring patches when exposing the plates. In view of the required precision, these patches can only be incorporated effectively using a CtF or CtP system.

With its 50x magnification, the camera can also be used to inspect freely selected areas of the image.

Refined finishes

Reproducible coating quality

KBA has already focused on the anilox coating technology for several years. The superlarge-format coater tower, too, is designed for ultimate coating quality and simple operation.

The chosen positioning of the anilox roller brings the advantage that it is no longer necessary to adjust the roller to compensate substrate thickness changes. Simple access to the coating forme cylinder is also guaranteed.

Fast coating plate changes

The register-punched coating plate is inserted into the front clamps, which are then closed pneumatically. With subsequent automatic mounting, pneumatic clamping at the rear and final tensioning, the total changing time is comparable to that for plate changing in the printing units.

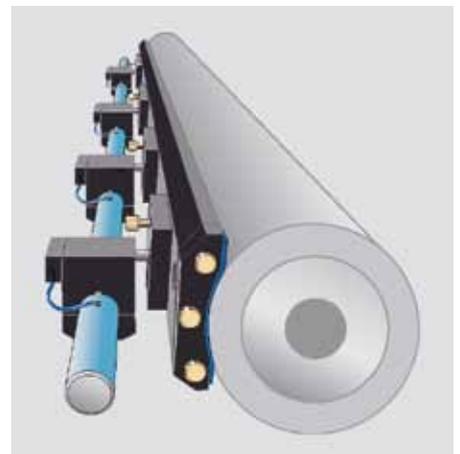
The anilox roller is 355 mm in diameter. This gives it an exceptional flexural rigidity and provides for a more even coating application across the whole sheet width. Each coater tower is fitted with a hoist to facilitate exchanging of the anilox rollers. The rollers can be placed on a special rest on the top of the coater tower, or else lowered into a transport box on the floor by slewing the hoist beam.

The LithoCoat system brings a number of decisive design solutions and significant benefits with regard to ease of operation and quality. With this system, the blade chamber is applied to the anilox roller and automatically compensated by way of a hydro-pneumatic blade pressure control feature. The extremely low contact pressure ensures a considerably longer service life of both the blade and the anilox roller.

Constant coating application

The positioning of the blade chamber against the anilox roller is a linear action, as a result of which the angle of the blade relative to the roller and consequently also the volume of coating applied is always constant. With six actuating cylinders distributed evenly across the whole width of the chamber, possible flexing of the chamber can be prevented effectively.

For maintenance and cleaning purposes the blade chamber can be swung out by 90° for removal, without the need for tools. The surfaces of the chamber itself have been given a special coating known as “Ceramic Coat”, which provides for simpler cleaning.



Anilox roller with chambered doctor blade

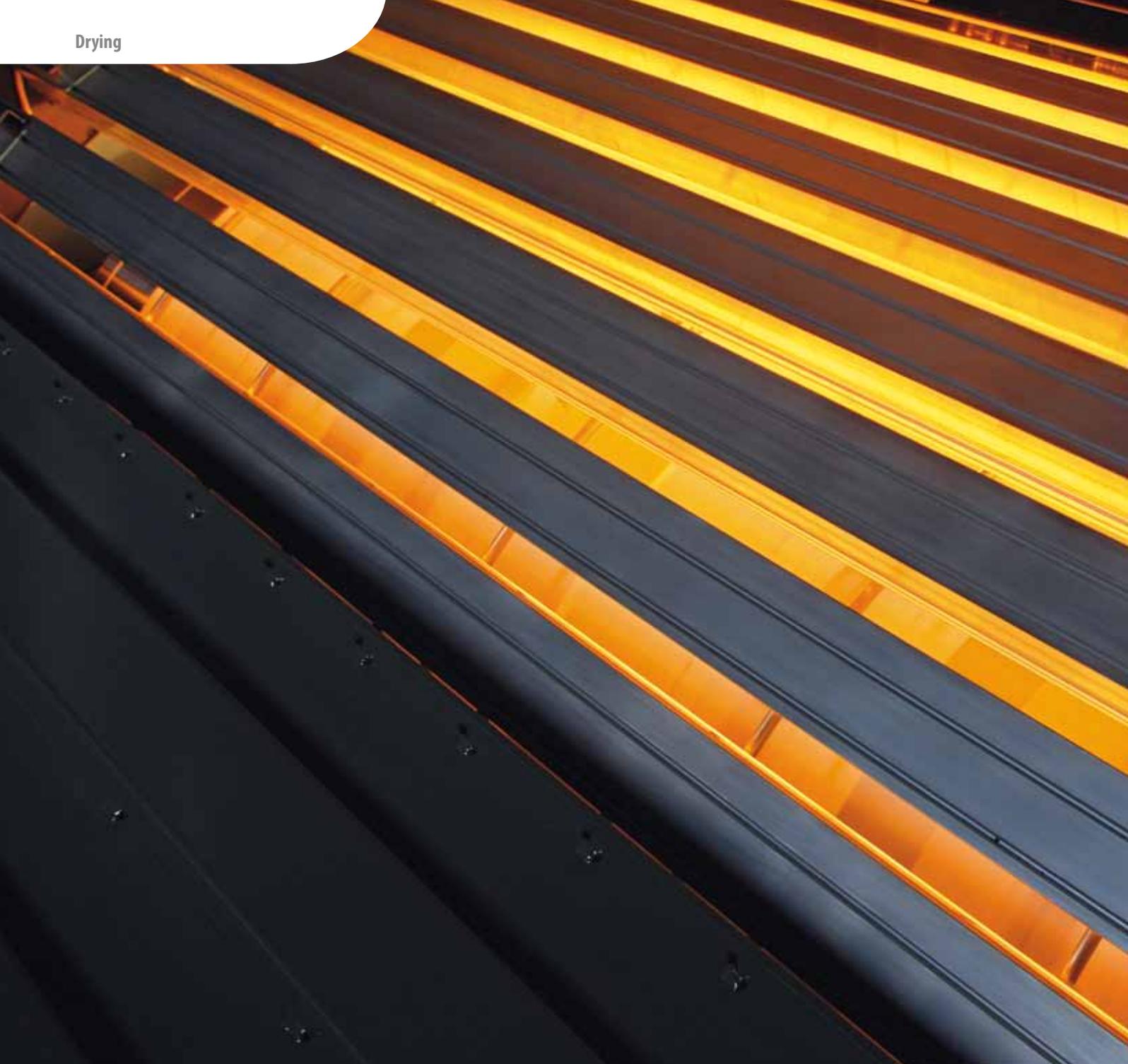


Automated functions permit fast coating plate changes

To reduce setting up times, the coater tower is combined with a coating supply and cleaning system, the so-called LithoCoat Circulator. This system can be used for the most varied water-based applications, and optionally also for UV coatings, and includes a warm water tank and a recirculation tank for the cleaning solution. The need for additional manual cleaning is practically eliminated. The printer operates the system simply and conveniently by selecting different programs at the console.

The benefits at a glance:

- Less load placed on the anilox roller and thus reduced wear
- Automatic compensation of blade wear ensures constant application pressure
- Long blade life
- Linear action and even pressure distribution for stable coating quality
- Fast, automatic cleaning of all components which come into contact with coating, with no need for additional manual cleaning
- Short makeready times thanks to fully automatic supply and cleaning system for dispersion and UV coatings



Interdeck and final dryers

Drying configurations

Refined finishing of the printed product is today becoming an ever more important criterion in print production. Basic prerequisites, however, are modern and effective dryer technologies.

The superlarge-format places especially high demands on drying efficiency. To meet these demands, KBA has elaborated a new system solution for the final dryer installations. The otherwise typical delivery extension has been replaced by dedicated drying towers.

The fundamental advantage of a drying tower is the more efficient utilisation of the energy input. Sheet transport through the drying section is no longer by way of the delivery gripper carriages. Instead, the dryer installations are mounted above the impression cylinder of a standard

printing unit substructure. This guarantees a constant distance between the dryer and the substrate surface, and ensures even drying over the full length of the sheet. Individual dryer concepts can thus be realised to suit the most varied applications.

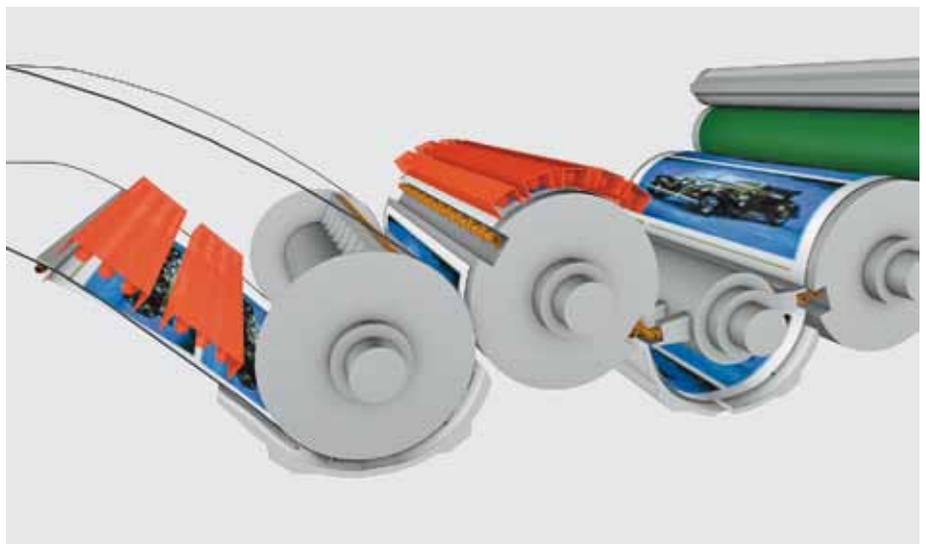
Many superlarge-format Rapida presses are supplied in the classic configuration with a coater tower for finishing with dispersion coatings, though double-coating presses are equally possible – and already practice-proven – for the Rapida 185/205.



Examples for the use of double coatings are:

- Primer + UV coating
- Primer + water-based metallic coating
- Double dispersion coating

Straightforward UV presses have also gathered firm support. The preferred solution in this case is to equip all the printing units with connectors for UV dryers. To optimise investment outlay, however, most users choose to install fewer actual interdeck modules. In this way, they are able to reduce investment costs, but without compromising the overall flexibility of the press.





Low-emission delivery

Format-oriented and ergonomic

The operating concept at the delivery is focused on ease of handling. All important production programs and status indicators, such as impression on/off, overdampening, air controls, speed adjustment for the suction roller, sheet counters and any error messages, are presented on a graphic display panel.

Precise sheet travel is achieved by a large radius of curvature and adjustable air cushions. Pile accuracy is supported by a combination of fans and blower bars, with very fine settings for the suction roller and speed-compensated adjustment of the gripper opening cam. All fan settings are stored on the console computer and can be recalled for repeat jobs. The optimised

aerodynamic design of the gripper carriages serves to reduce turbulence to a minimum and enhances the efficiency of powdering.

Extraction system

Press operators are in many cases exposed to particularly high levels of emissions at the delivery. This is therefore a zone

which demands the closest scrutiny and effective action to safeguard a healthy environment.

Despite the aerodynamic design of the gripper carriages, VOCs, odours, heat and powder dust are nevertheless transported in their wake. The situation is exacerbated if the sheets are coated, as drying releases odorous substances which, though not hazardous to health, are still far from pleasant for the press operator. The optional delivery extraction system was developed as an option to reduce VOC levels. It features a main extraction duct with an acrylic baffle under the viewing window in front of the delivery pile, and additional extraction ducts at the pile edges.

Cost-effective inline finishing in top quality

The hybrid technology

The hybrid technology, which has been optimised for practical application by KBA together with a number of leading ink manufacturers, opens up new avenues for flexible inline product refinement at a favourable price. Configurations specially tailored to the hybrid system represent an alternative to traditional double-coating presses, offering enhanced quality, cost-efficiency and ecological compatibility for a reduced investment outlay.

The hybrid system combines the properties of mineral-oil-based and UV-reactive inks. The fast drying and the reliable compatibility of the binder systems with the UV coating guarantees excellent high-gloss results. The deliberate combination of different ink and coating systems, furthermore, provides for attractive spot coating options. Even in superlarge formats, ultrafine spot finishes can be produced in full offset register quality.

The hybrid press

When equipped with appropriate dryer systems, the Rapida 185 and 205 presses become extremely flexible means of production. Complementing standard applications using conventional inks and dispersion coatings, the hybrid technology permits targeted expansion of the product range and thus helps to strengthen the user's market position.





Zone-by-zone ink profile settings at the control console



Press control keyboard

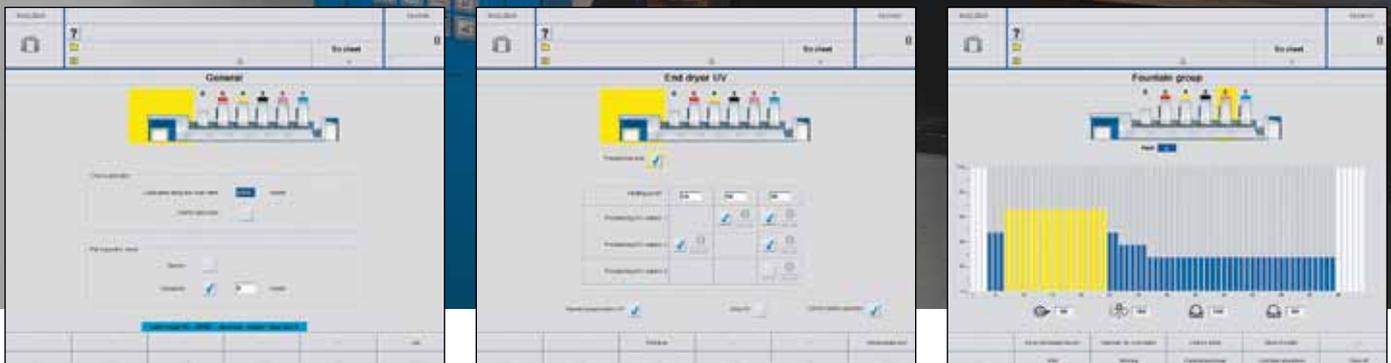
The ErgoTronic console

Convenient operator interface

The further improved design addresses ultimate functionality demands, but without compromising ergonomic considerations. For the printer, the ErgoTronic console represents an ideal, stress-free workplace.

Supplementary to its standard production and press control functions, the console can be expanded with a variety of optional modules to further enhance ease of operation and productivity.

The KBA designers have based the chosen arrangement and function assignments of the control keyboard on comments and wishes expressed by countless users around the world. The result is an operator interface tailored specifically to the printers actually working on the press.



Screen menus

Standard features:

- Interface to LogoTronic or LogoTronic Professional
- Interface to dryers
- Interface to dampening solution conditioning or combi-cooling units
- Interface to powder sprayer
- Log file ≥ 1 year
- Status message system in local language
- Troubleshooting assistant in local language

- 19" TFT screen
- Storage drawers
- Remote maintenance function via internet
- Operator manual and spare parts catalogue

Selection of further options:

- CIP3/CIP4/JDF interface
- Interface to company Intranet
- ErgoTronic ACR (video register)
- DensiTronic
- DensiTronic Professional
- Logistics systems



KBA DensiTronic

Quality under control

KBA offers a number of different online measurement and control systems with which to monitor, maximise and document print quality.

The simplest variant is purely densitometric online inking control with **DensiTronic**. The system is mounted directly onto the sheet inspection desk of the ErgoTronic console, and measurements are performed on a linear pass of the high-speed densitometer across colour bars printed on the front edge of the sheet. Back-edge measurement is possible simply by rotating the sheet. A quality report function rounds off the scope of features.

DensiTronic Professional is a measuring and control system which is able to measure not only ink densities in colour bars, but also spectral and colorimetric values within an image. It boasts comprehensive functionality for print quality assurance and documentation. The outstanding feature is the innovative dual-purpose measuring head incorporating both a densitometer and a spectrometer. The control functions work with both colour densities and spectral or colorimetric values, whether from colour bars or directly within the image. Deviations from defined target densities, colour values and other quality parameters (dot gain, trapping,

etc.) are recognised and displayed not only reliably, but also very quickly in comparison to hand-held measuring devices. With integration for online control, the density and spectral deviations are converted into corrective adjustments for the individual ink keys and transferred to the press upon confirmation by the operator.

DensiTronic PDF compares the printed sheet directly with a prepress PDF. In this way, it is possible to detect even the tiniest flaws, many of which could easily go unnoticed when checking with the naked eye. Examples are spots of dust or other contamination from the time of plate exposure, die-cutting and register marks, the numbering of individual blanks or dot gain in the product bar codes. The possibility to automatically exclude certain differences enables the operator to gain a fast and compact overview of all production-relevant deviations.



KBA QualiTronic

Inline quality assurance

With KBA QualiTronic, users of Rapida 185 and 205 presses are offered a whole family of powerful solutions for inline quality control. The system is available in three variants, each of which is geared to a different scope of production requirements.

QualiTronic is a proven system for inline sheet inspection. Via a dedicated monitor, quality deviations are already signalled as they develop, instead of waiting until they actually become evident in the delivery. The press operator can thus take appropriate actions before the defined tolerance thresholds are exceeded. The system identifies both transient blemishes, such as ink splashes, hickeys and paper defects, and more permanent deviations, for example tinting, low ink and over- or under-inking.

QualiTronic ColorControl provides for continuous inline colour measurement and control during the print process. The combination of on-press density measurements with closed-loop control of the ink key settings, and thus the ink profiles in the inking units, paves the way to a new level of print quality assurance in sheetfed offset. QualiTronic

ColorControl accelerates the attainment of target densities and then holds inking constant over the whole length of a job.

QualiTronic Professional unites inline sheet inspection and inline colour control in a single package and can rightly be termed a “total quality system”. The modules QualiTronic Mark and QualiTronic MarkPlus enable identified waste sheets or blanks to be marked with an inkjet.

DensiTronic Professional for a KBA Rapida 185



JDF Workflow

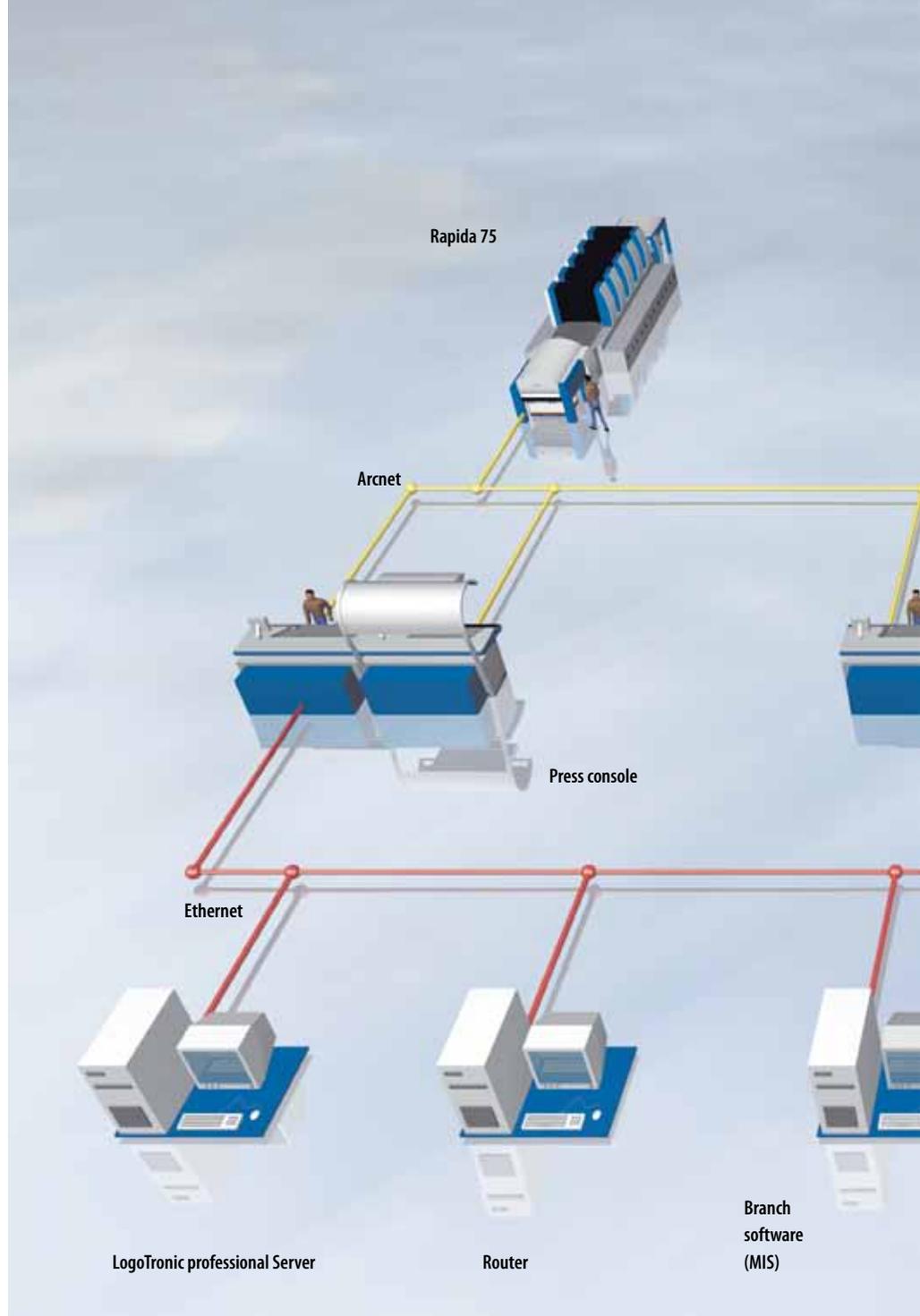
Digital networks

The goal for practically every print enterprise is to possess an unbroken workflow from order receipt through to product dispatch. Since so many different machines and programs are involved, however, such workflows are rarely available "off-the-shelf". Individual configurations must be tailor-made. This is also generally not a domain for "one-stop suppliers". KBA makes a dedicated contribution to networking and workflow with its management systems LogoTronic and LogoTronic professional, but at the same time works together closely with recognised suppliers of branch software (Hiflex, Rogler and others).

The universal JDF interface developed by the CIP4 consortium (of which KBA is a member) permits data exchange with both management information and prepress systems. The JDF specification (Job Definition Format) takes into account all process-relevant modules. Data transfer, however, can nevertheless use the previously installed interfaces.

JDFLink with LogoTronic professional

Interconnection of the production management system KBA LogoTronic professional via the universal interface JDFLink offers the following advantages:



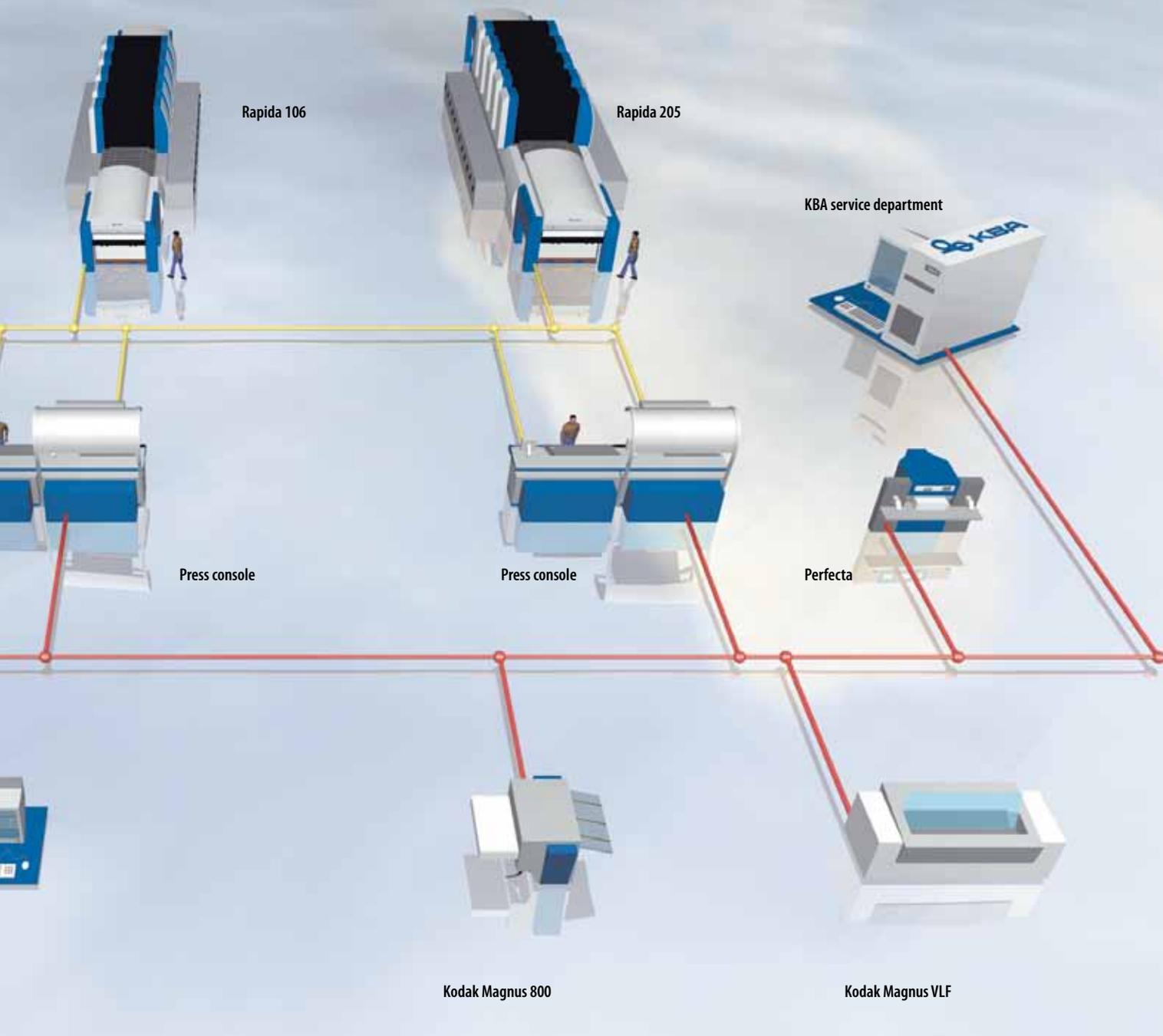
KBA LogoTronic network

- Unbroken workflow
- Job data can be passed directly from the branch software to the press console, eliminating the need for job docketts
- Access to LogoTronic professional from all connected workstations
- Presetting and repeat data provide for shorter makeready times
- More effective production time per shift
- Less waste
- Single data input brings greater efficiency and reduces the risk of errors
- Improved cost accounting on the basis of exact press and production data, with no daily worksheets to be completed by hand

- Clearer overview through facility to retrieve all job, presetting and press data
- Comprehensive and transparent information for management

Job scheduling with the electronic planning chart





Electronic planning chart

To assist job scheduling, an electronic planning chart has been integrated into LogoTronic professional. All jobs prepared as orders in the branch software are taken over into the chart. The chart elements themselves are manipulated on a “drag & drop” basis. The system calculates the time changes resulting from such rescheduling and shifts the individual jobs accordingly. Conflicts and status changes are signalled by colour coding, and capacity overviews indicate reserves and potential bottlenecks. Scheduling for non-KBA presses is also possible. On KBA presses, the job data are combined with presetting data from the prepress via CIP3 or JDF and passed on to the press console.

PressWatch

The LogoTronic component PressWatch provides management with an overview of all the jobs currently being run. Counter states, printing speeds, job data and progress, press status messages and a whole array of other relevant information can be displayed.

SpeedWatch

SpeedWatch creates a time/speed diagram with which all events and messages for a selected press can be depicted. Correspondingly authorised persons are able to access this information via the Internet or the company Intranet.

LogoTronic

We also offer a version of the system called simply LogoTronic. This version was developed to support the transfer of preset data to the press as simply as possible. LogoTronic embraces the modules CIPLink (CIP3/JDF data transfer for press presetting), a job log and an online link for a plate scanner. Existing print company hardware (server) is used to implement the networking system. Only the presetting data for the ink keys and duct rollers are transferred. When the job is finished, job log data are made available as a text file for actual cost accounting.



Books, posters, displays and packaging

The big deal

The superlarge-format Rapidas permit completely new approaches to poster printing. Whether City Light, Mega Light, 18/1 billboard or one of many other formats, there are significantly fewer sections to each poster – and a standard City Light poster can even be produced on a single sheet. Reductions in the numbers of

sections are the essential key to success for any poster printer. With the frequently very short runs, after all, the press makeready times for production of each new section soon mount up. The new generations of Rapida 185 and 205 presses, however, enable many poster types to be printed without divisions. This optimises

production costs and can be translated into a direct competitive edge.

The superlarge-format Rapidas also repay their investment very quickly in the printing of billboard posters. A typical 18/1 billboard can be produced in six sections on a Rapida 162. To illustrate the alternatives, a Rapida 185 or Rapida 205 requires only a four-sheet division. And the benefits of the Rapida 205 become sheer immeasurable for all poster formats based on a 3-metre height, such as 40/1 superposters.



But poster printing is only one forte; the Rapida 185/205 presses also demonstrate their prowess when it comes to POP displays. Large-format displays often need to be printed in several parts and are then pieced together (often by hand) to make up the final product. Even a man-size display can be printed in one piece with the Rapida 185 or 205, which drastically reduces job complexity both for the printer and at the conversion stage. The enlarged print format also adds a host of new creative options for the display designers.

Packaging is similarly a field in which the XXL Rapidas stand out. An increasing number of presses is being earmarked for the printing of both high-volume and exceptionally large-format packaging products. After all, even voluminous consumer goods such as televisions and vacuum cleaners are today ever more frequently delivered in attractive, full-colour printed boxes instead of plain brown corrugated packaging.

Another no less interesting application is book production. The doubled format of our Rapida 130, for example, accommodates 72 pages of the classic book formats 21 x 28 cm (landscape) or 17 x 24 cm (portrait) on a sheet. As run lengths become ever shorter, the superlarge Rapida presses could well serve as an economical alternative to web-based production. The inline slitting facility (ICS) returns the format to accustomed and easily handled dimensions.



Remote diagnosis and maintenance

KBA Service online

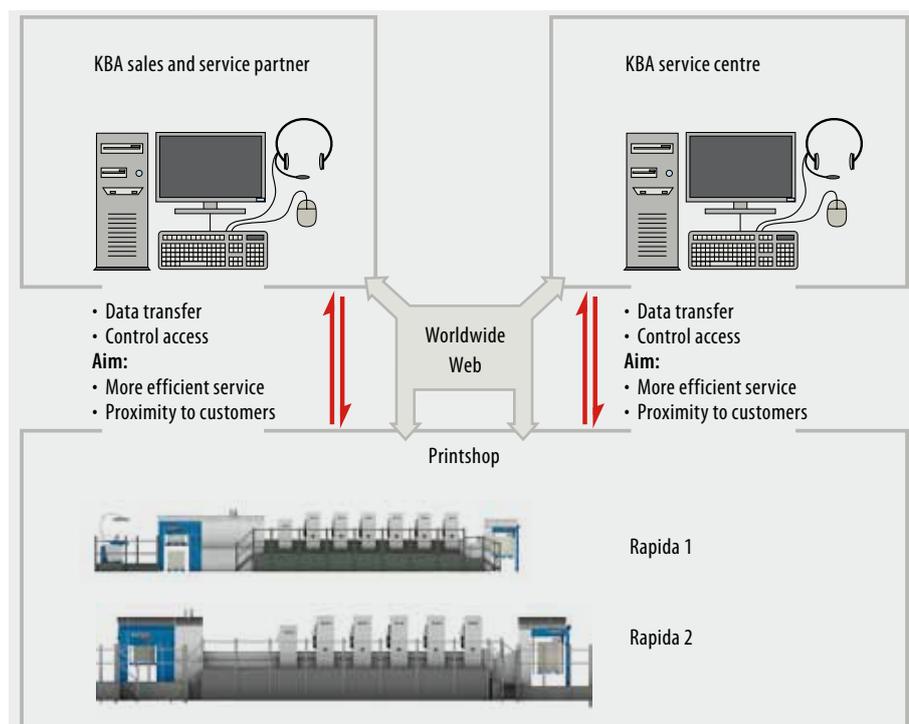
KBA Service online – that stands for a comprehensive concept for remote diagnosis and maintenance. Modern avenues of electronic communication such the Internet are exploited to the full, but without neglecting any of the necessary data security mechanisms.

Remote maintenance is a standard feature on all Rapida 185/205 presses. All that is required is Internet access directly at the press console.

Since the remote maintenance function must always be initiated explicitly by the

press operator, there are no data security risks whatsoever for the user. The system then permits not only fast elimination of any faults which may occur, but also analyses of operating procedures, checking of the software and downloads of log files.

Through the decentralised control system of the Rapida presses, which interlinks the PLCs controlling the individual press components, it is possible to call up, transmit and evaluate all relevant status and error messages (up to 2,000 different messages, depending on the level of equipment on the press). Peripherals such as dryers, powder sprayers, inking unit temperature control, etc. are also integrated into the remote maintenance function.



Worldwide networking with KBA Service online



KBA Rapida 185/205

At a glance

	Rapida 185	Rapida 205	
Sheet format:			
Maximum	1300 x 1850	1510 x 2050	mm
Minimum	900 x 1350	900 x 1350	mm
Print format:			
Maximum	1290 x 1850	1490 x 2050	mm
Substrates¹⁾:			
Standard	0.1 – 0.6	0.1 – 0.6	mm
With board-handling equipment	up to 1.2	up to 1.2	mm
With corrugated equipment	up to 1.6	up to 1.6	mm
Maximum production speed²⁾:			
Up to 6 printing units	11,000	9,000	sph
Pile heights³⁾:			
Feeder	1400	1400	mm
Delivery	1100	1100	mm
Plate/blanket dimensions:			
Plate size	1425 x 1860	1560 x 2060 ⁴⁾	mm
Copy line	72	44	mm
Blanket size	1600 x 1890	1655 x 2090	mm
<p>1) Decisive for printability is also the flexural rigidity of the substrate</p> <p>2) Dependent on individual processing parameters, e.g. the inks and substrates used</p> <p>3) From floor / without non-stop operation</p> <p>4) Can be adapted to the specific requirements of the individual user</p>			

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from Koenig & Bauer AG

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08/2014-en. Printed in Germany

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