



**KBA RAPIDA 185/205 from  
Koenig & Bauer AG**

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Our agents:

# KBA RAPIDA 185/205

The new benchmark  
for sheetfed offset in XXL superformat

# No half-measures

## All-new design



A 40-year wait is coming to a close. Rapida 185 and Rapida 205 are the names for the future of superlarge-format printing, as presses set to redefine the entire concept of sheetfed offset in XXL formats.

In recent years, KBA's acknowledged competence in large format has prompted calls from many players in the global graphic arts industry for a new generation of superlarge-format presses – and that not only from poster companies, but also from book and packaging printers and from publishers.

The last innovations in this format class date back to the 60s and 70s and are no longer able to keep pace with the ever-increasing demands of the users. The economic justifications for such a press are not simply a product of the sheer format - they

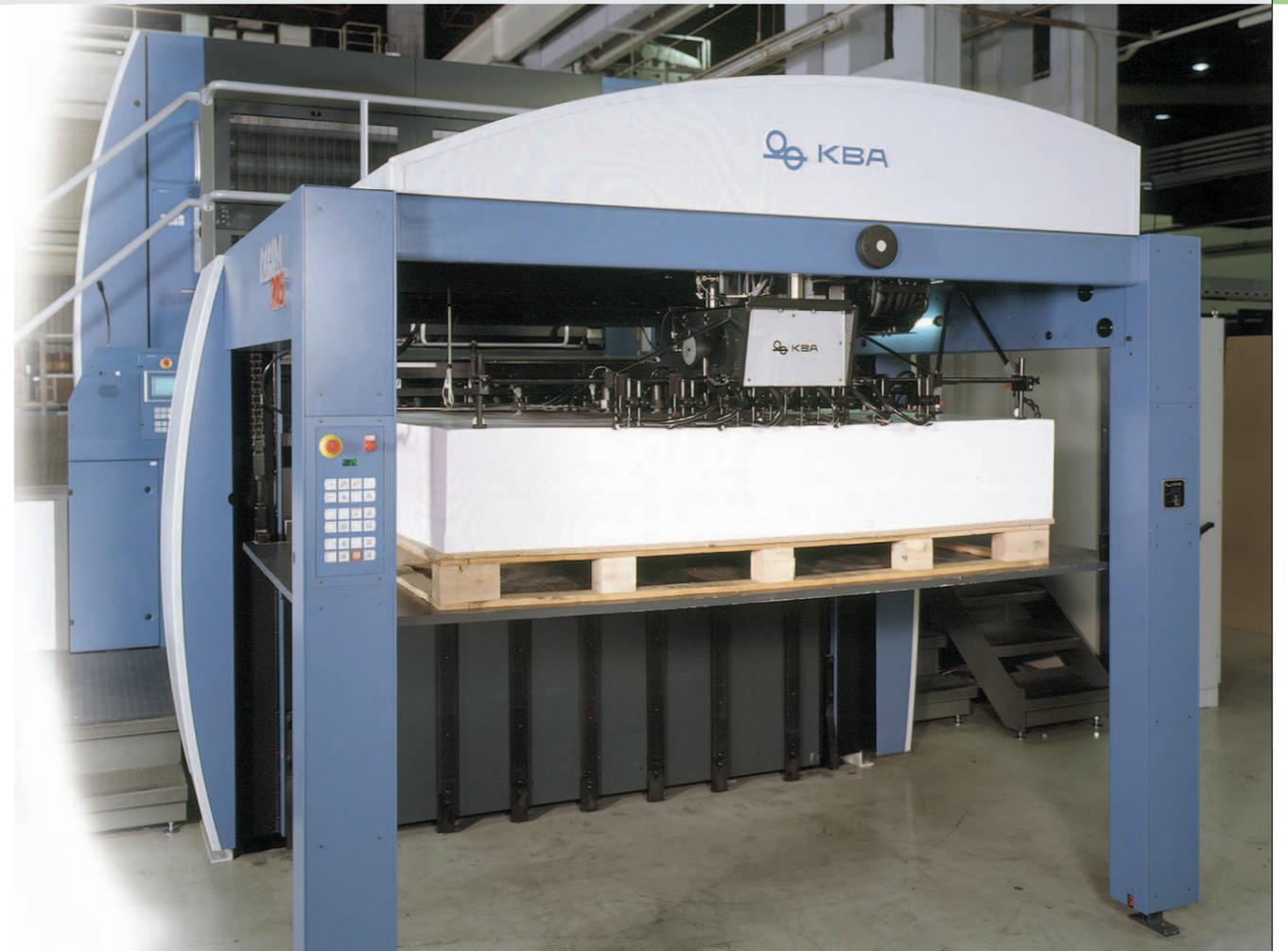
are as much an expression of the level of automation and the ensuing flexibility benefits.

With this in mind, the KBA design engineers took the proven automation and user-friendly features of the latest large- and medium-format Rapida models as their yardstick.

The new Rapida 185/205 is nevertheless not just a “blown-up” Rapida 162. The laws of physics alone already necessitated a totally new press design for the KBA giants.

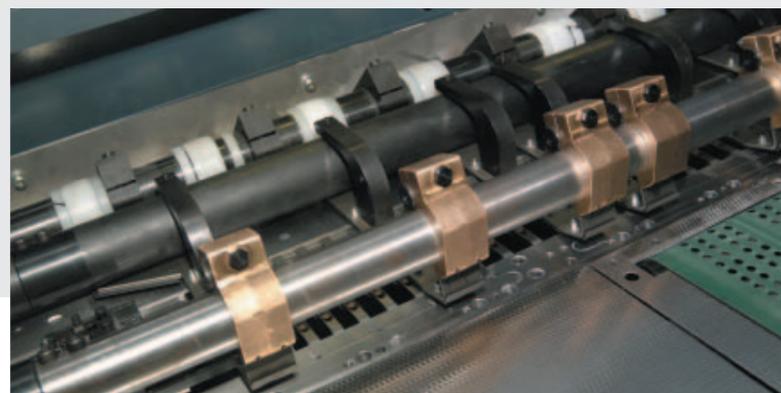
# Format-focused features

## For all eventualities



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

Front lays at the press infeed



A sheet pile for the giant-format Rapida 185/205 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

Still unique in the modern sheetfed offset arena, and an enormous advantage for superlarge-format users, is the shaftless feeder of the Rapida presses. Dedicated electronic drives take care of all necessary feeder motions, namely:

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

The 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 both standard and fully automatic 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 ultrasonic double-sheet detector is an ideal choice for practically the whole range of substrates from paper to board, and even metallised stocks. A capacitive sensor is preferred for thicker substrates such as multi-ply board.

### Sheet infeed

Options for central setting of the front lay cover height, motorised skew correction of the infeed line and parallel variation of the gripper margin enhance the ease of operation at the

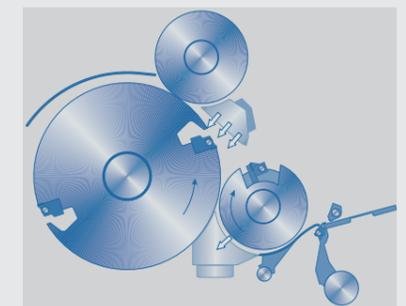
infeed. Motorised positioning of the front and side lays is a standard feature. Guide rollers can be added to optimise the handling of stiff materials such as heavy board or even corrugated stock. A timed-action guide shaft, furthermore, assists precise transfer of the sheets into the press.

### 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.

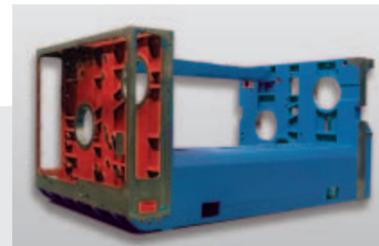
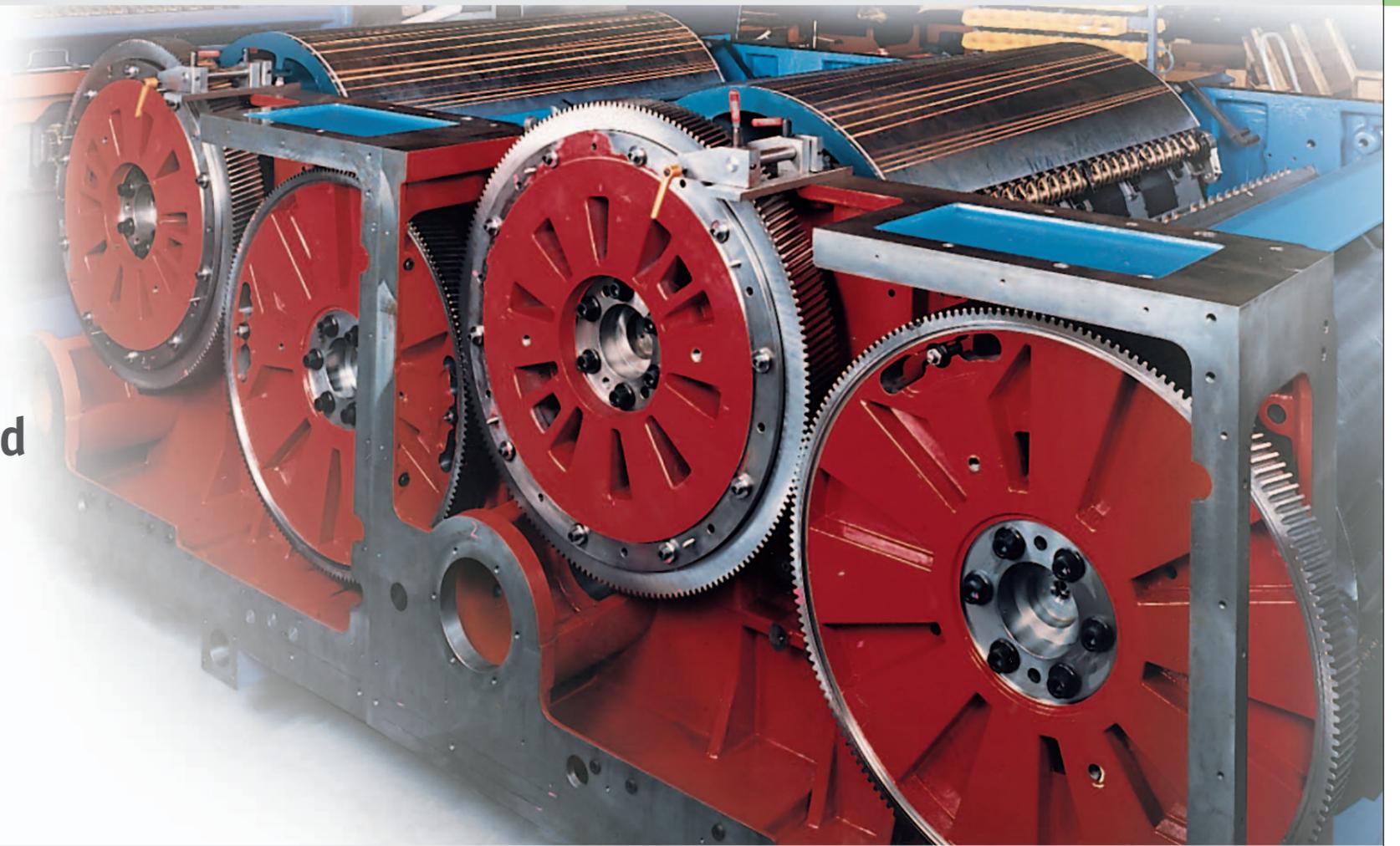
### Dust extraction

An optional dust extraction facility can be used to remove paper dust or powder from the substrate surface. Conventional vacuum extraction technologies are combined with dedicated sheet guiding elements to ensure effective dust removal over a wide range of print substrates.



Sheet infeed with swing grippers and feed drum

## Robust and vibration-free All cast in the same mould



Box cast in a single piece

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

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 coating and intermediate 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 introduced via the first impression cylinder gear, from where it is distributed through a single

continuous gear train. Thanks to this design solution, there is no distortion of the drive system even in the case of very long press configurations.

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 be countered by incorporating a defined play into the system, though this in turn brings negative effects for the

print result. Thanks to the play-free roller bearings used in all today's Rapida presses, such worries have become irrelevant for Rapida users.

### Grippers

In the case of frequent substrate changes or less commonplace applications, such as direct offset print on corrugated board, constant gripper forces appropriate to the substrate are essential. Differences in the closing forces of the gripper systems on impression cylinders and transfer systems can lead to register deviations in the stretching direction of the sheets.

All Rapida gripper systems operate with a universal gripper setting. 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.



## Sheet travel

### Slim and flexible

The new superlarge-format generation from KBA has remained true to the sheet travel principles of its smaller sister presses. Double-size impression cylinders and transfer systems are again standard features, and 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 the 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

but nevertheless 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. Separate control of the air volume at each individual unit is unnecessary since the transfer conditions for the sheet are identical throughout the press.

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

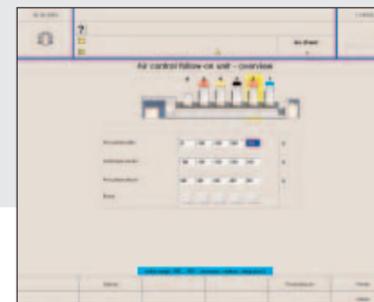
For materials up to 200 g/m<sup>2</sup> so-called comb suckers (photo right) smooth the sheets as they enter the new impression gap and in doing so prevent slapping and doubling. Further system components are available to handle heavy and corrugated boards. All electronically controlled components can be adjusted from the Ergotronic control console, where their settings are also saved for repeat jobs.

For the handling of thicker substrates, a blower bar system assists the passage of the sheets at the impression gaps. This system functions with cost-effective low-pressure blower air.

The mechanical sheet guiding equipment for heavy stocks comprises special guide bars above the impression cylinders, which control the trailing edge of the sheet on its passage through the printing unit.



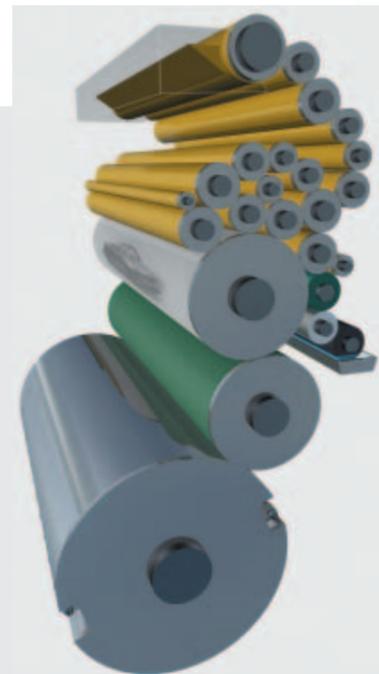
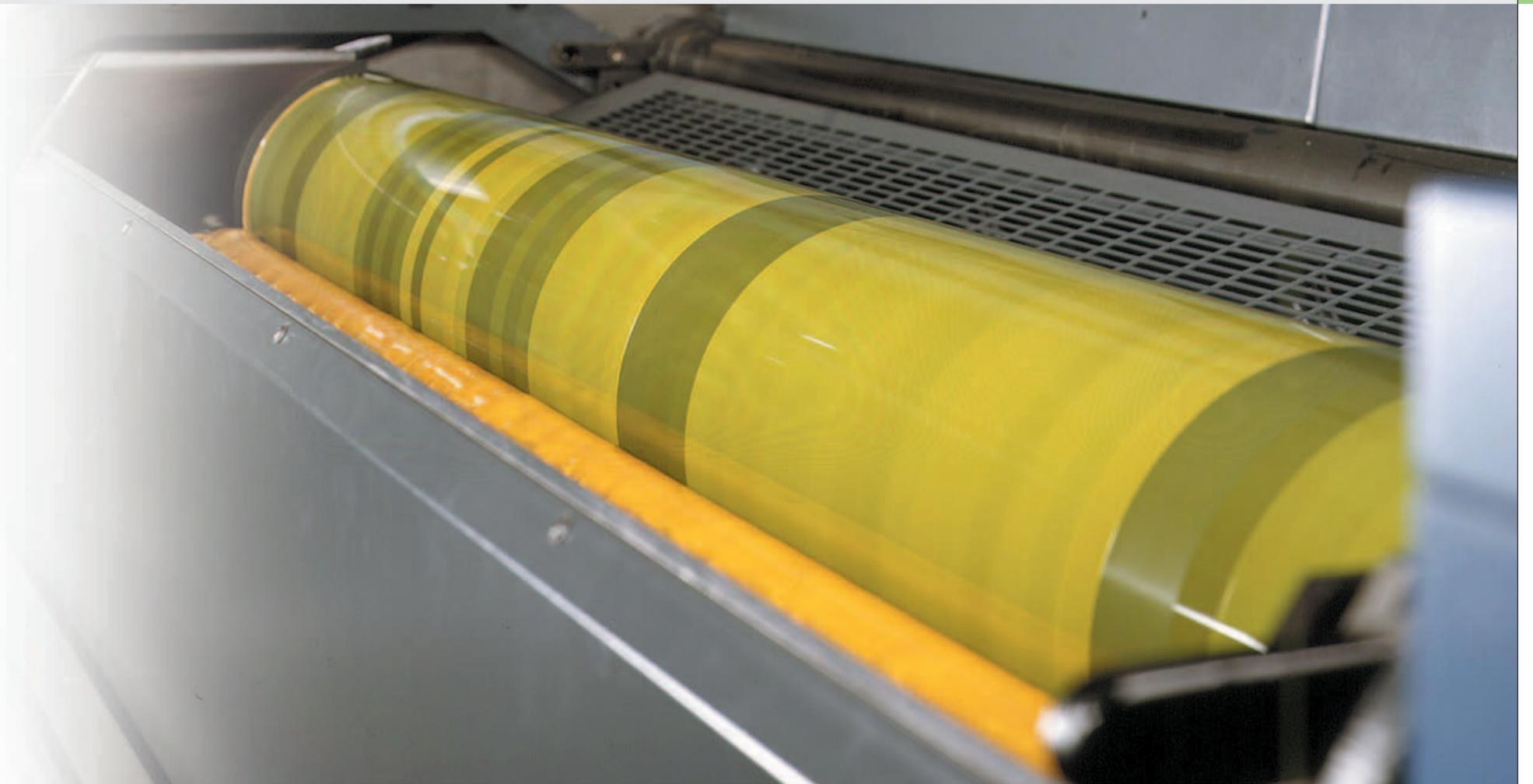
Comb suckers prevent slapping and doubling as the sheet enters the impression gap



Air settings can be regulated finely from the control console

# Ink and water

## Fast reactions and process stability



Schematic representation of the inking unit

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 wastage 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 that it is always closed to the duct roller with uniform pressure and contributes similarly to a high degree of reproducibility.

### Process stability and quality

The open inking unit geometry provides for optimum heat dissipation and avoids unwanted heat build-up in the inking unit. This design detail improves the ink flow characteristics by maintaining a highly constant viscosity. A further positive effect is faster 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.

### 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 serves to remove unwanted hickeys.

### Inking unit temperature control

Temperature fluctuations influence process stability. The superlarge-format Rapida presses are thus 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 following press components can be integrated into an autonomous circuit:

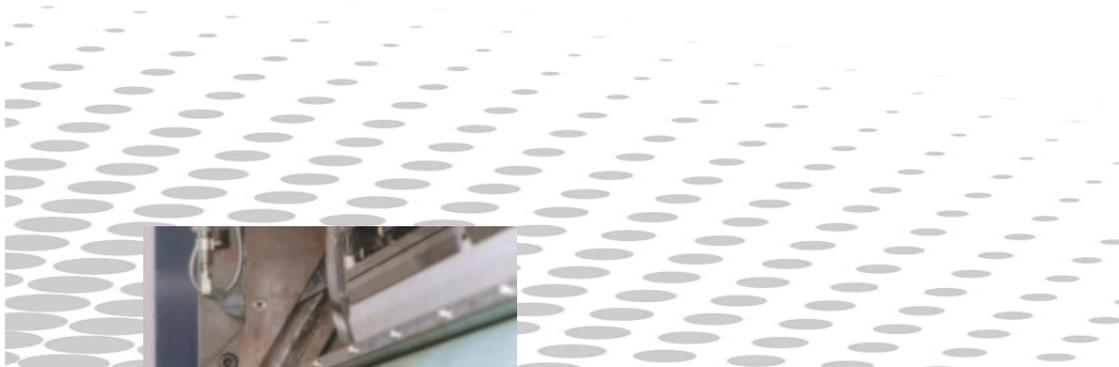
- Inking unit and dampening solution cooling (cooling and combi-cooling units)
- Air cabinets
- UV dryers

Heat exchanger of a glycol cooler



# Multi-purpose washing system

## Washing in half the time



Linear system for positioning of the multi-purpose washing beam



Convenient configuration of the washing programs at the Ergotronic console

The new 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 element of this new development is the multi-purpose washing system. 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, whereby a rack-and-pinion combination provides for the 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. Cloth replacement is very simple and

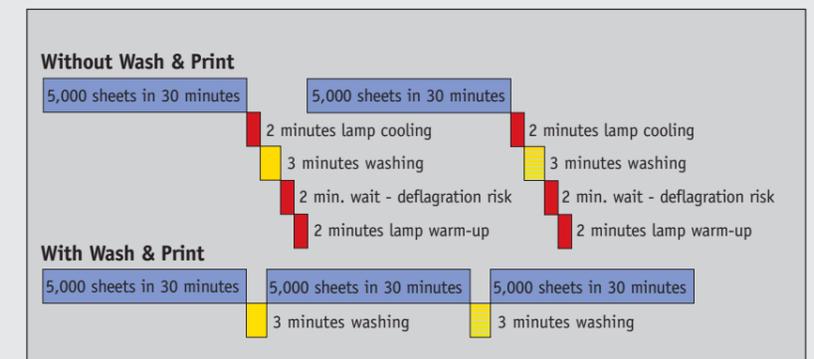
can be handled by a single operator. A further benefit of this system is the precisely controlled fabric advance by way of an electric motor, which provides for more effective utilisation of the cloth. The length of cloth used is measured during the winding onto the permanent spindle in the washing beam. 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.

**Wash & Print**  
The delay times prescribed by industrial safety legislation for the drying systems on UV presses naturally have a negative effect on productivity. 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 Wash & Print, the UV interdeck dryer can remain in standby mode during blanket washing. This represents a decisive plus for productivity for UV and hybrid applications.

- Time savings at a glance
- 2 minutes before washing (lamp cooling)
  - 2 minutes after washing (evaporation of solvent)
  - approx. 2 minutes for lamp warm-up

Time savings with Wash & Print (basis: 2 washing cycles per hour)





## APC: 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. The new APC system – Automatic Plate Changer – sets the standards for the superlarge-format sector.

#### APC – Automatic Plate Changer

All Rapida 185/205 presses incorporate the fully automatic plate changing system APC 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.



Split rear clamping bars facilitate any manual register corrections

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, whereby the first step of the process is 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 three sections. APC changes the plates in four cycles, taking just 3 minutes to do so – irrespective of the number of printing units involved.

## ACR Control: spot-on accuracy

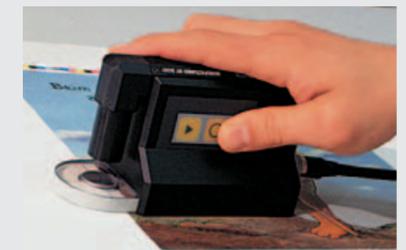


Automatic Camera Register Control (ACR Control) provides the operator with an extremely efficient system for fast colour registration even for this giant format.

ACR Control comprises a camera, an integrated PC and the corresponding software. The camera is used to determine any register differences, and calculated correction values are then transmitted 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 a special measuring patch when exposing the plates. In view of the required precision, the measuring patch 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.



It could hardly be simpler: Working with ACR Control



## Refined finishes Reproducible coating quality

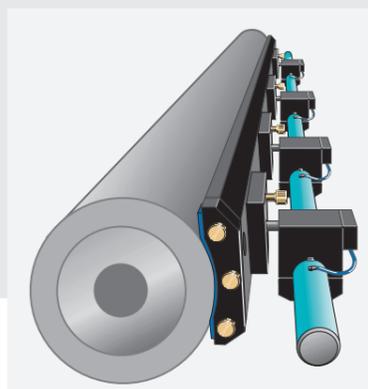


Schematic representation of the anilox coating unit and varnish supply system from Harris & Bruno

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

The altered position of the anilox roller results in significantly improved handling for the operator. For example, it is no longer necessary to adjust the anilox roller to compensate substrate thickness changes.

Anilox roller with chambered doctor blade



### Fast varnish plate changes

The varnish plate is inserted in the direction of printing. With semi-automatic plate clamping, this eliminates the previously necessary manual tightening of the tensioning screws.

The makeready time for the semi-automatic system has thus been reduced to just a couple of minutes.

The anilox roller is 355 mm in diameter. The advantage of such a torsionally rigid roller is a more even varnish application across the whole sheet width. Each coating 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 coating 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 changes 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 varnish application

The positioning of the blade chamber against the anilox roller is a linear action. This means that the angle of the blade and consequently also the volume of varnish 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 simple cleaning.

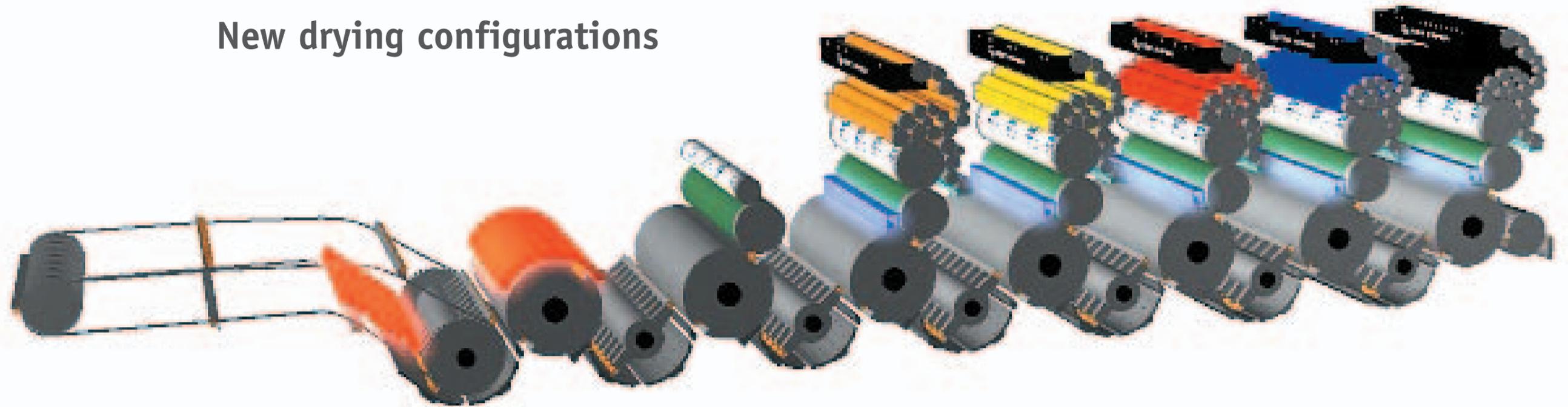
To reduce setting up times, the coating tower can be combined with an optional varnish supply and cleaning system, the so-called LithoCoat Circulator. This system can be used for both water-based and UV varnishes, and includes a warm water tank and a recirculation tank for the cleaning solution. The need for additional manual cleaning is practically eliminated. The printer operates the system simply and conveniently by selecting different programs via a touchscreen controller.

### 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 constant varnishing quality
- Fast, automatic cleaning of all components which come into contact with varnish, with no need for additional manual cleaning
- Short makeready times thanks to fully automatic supply and cleaning system for water-based and UV varnishes

# Interdeck and final dryers

## New 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 new 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 classic delivery extensions have 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, and ensures even drying over the full length of the sheet. The open design concept of the Rapida presses makes it possible to integrate appropriate dryer systems from practically any

manufacturer. 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 coating tower for finishing with water-based varnishes.

Double-coating applications already call for appreciably more complex dryer installations, and such equipment can no longer be treated as a merely peripheral system.

Examples for the use of double coatings are:

- Primer + UV varnishing
- Primer + water-based metallic coating
- Double water-based varnish

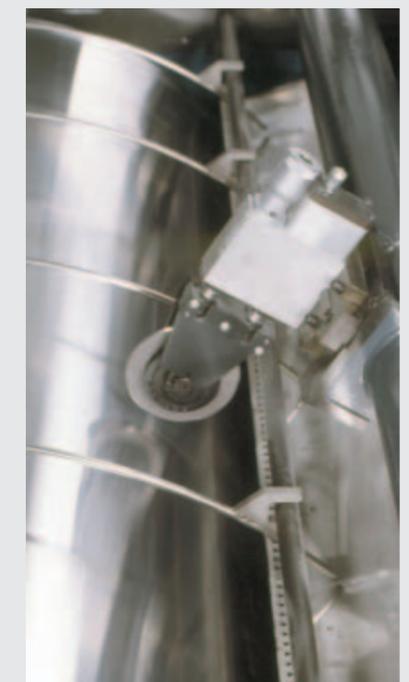
Classic UV presses have also gathered firm support. The preferred solution in this case is to equip all the printing units with connector modules for UV dryers. To optimise investment outlay, however, most users choose to install fewer actual interdeck dryers. In this way, they are able to reduce investment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

### Efficient powdering

Where the press configuration includes an optional drying tower, the powder sprayer bar can be positioned above the cylinder of this press unit. The distance between the spray nozzles and the substrate is then much less than in the conventional case of installation in the delivery. The problem of gripper carriage turbulence is also eliminated.

### Inline Cut System (ICS)

As a further option, the new Rapida 185/205 can also be equipped with a sheet slitting device (ICS). This system is mounted on a crossbar above the impression cylinder. To prevent damage to the cylinder, the cutting wheel runs over a specially mounted steel plate. The contact pressure is applied pneumatically and can thus be set extremely finely.



Inline Cut System above the final impression cylinder

# Eco-delivery option

## Format-oriented and ergonomic



# Cost-effective inline finishing in top quality

## Hybrid technology



The operating concept at the delivery is focused on ease of handling. All important production program and status indicators, such as impression on/off, overdampening, air controls and sheet counters, are presented on a graphic display panel.

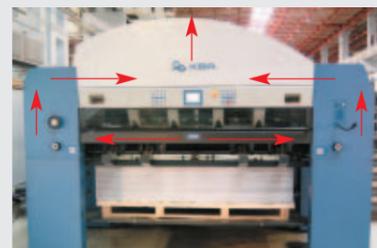
Precise sheet travel is achieved by a large radius of curvature and adjustable air cushions. Pile accuracy is supported by a combination of fans and blower pipes and by speed-compensated adjustment of the gripper opening cam. All fan settings are stored on the console computer and can be recalled for repeat jobs. The optimised aerodynamic design of the gripper carriages serves to reduce turbulence to a minimum.

### Air Clean System (ACS)

Press operators are 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 ACS system was developed as an option to reduce VOC levels. An ACS delivery features a main extraction facility with an acrylic baffle under the viewing window in front of the delivery pile, and additional extraction ducts at the pile edges.

Function principle of ACS at the delivery of a Rapida 185/205



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 varnish guarantees excellent high-gloss results. The deliberate combination of different ink and varnish systems, furthermore, provides for attractive spot varnishing options. Even in super-large 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 conven-

tional inks and water-based varnishes, the hybrid technology permits targeted expansion of the product range and thus helps to strengthen the user's market position.

# The new Ergotronic console

## Convenient operator interface



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

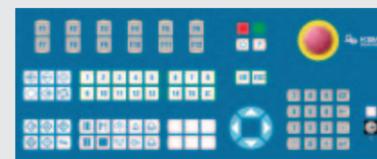
Supplementary to its standard production and press control functions, the console can be expanded with a variety of optional modules to further enhance ease of operation and productivity.

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.

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



Press control keyboard

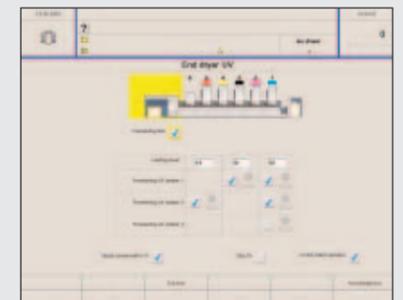


### Standard features:

- Interface to Logotronic basic or professional
- Interface to Datacontrol
- Interface to dryers (Grafix, Eltosch)
- Interface to combi-cooling unit (Baldwin, Technotrans)
- Interface to powder sprayer (Weko, Grafix)
- Log file  $\geq 1$  year
- Status message system in local language
- Troubleshooting assistant in local language
- Substrate-specific factory settings for the press
- 19" TFT screen
- Storage cabinet
- Remote maintenance function via modem
- Operator manual and spare parts catalogue

### Further options:

- Interface to Densitronic S
- Conversion of CIP3 files into ink key settings
- CIP4/JDF interface
- Interface to company Intranet
- ACR Control video register
- Densitronic basic on the sheet inspection desk



# KBA Densitronic S

## Quality under control



# KBA Densitronic basic

## Directly at the console



**D**ensitronic S is a combined density and colour measuring system for quality control both during and after printing. Unlike other systems, Densitronic S also permits direct measurements within the image.



Display of measured values; here density deviations in the individual colours

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 (the latter as an option) are converted into corrective adjustments for the individual ink keys.

Densitronic S can be set up either immediately alongside an individual press console, or alternatively as a central quality control point to serve several presses. The operating software is network-enabled and thus permits the interlinking of any number of Densitronic S desks and job scheduling workstations.

The system is also an ideal tool to generate comprehensive quality documentation.

**F**or many smaller print companies, purely densitometric quality assessment on the basis of printed control strips is sufficient. This is exactly what KBA Densitronic basic offers – an inexpensive density measuring system, which is mounted directly onto the sheet inspection desk and thus occupies no additional space.



Measurement with the high-speed densitometer



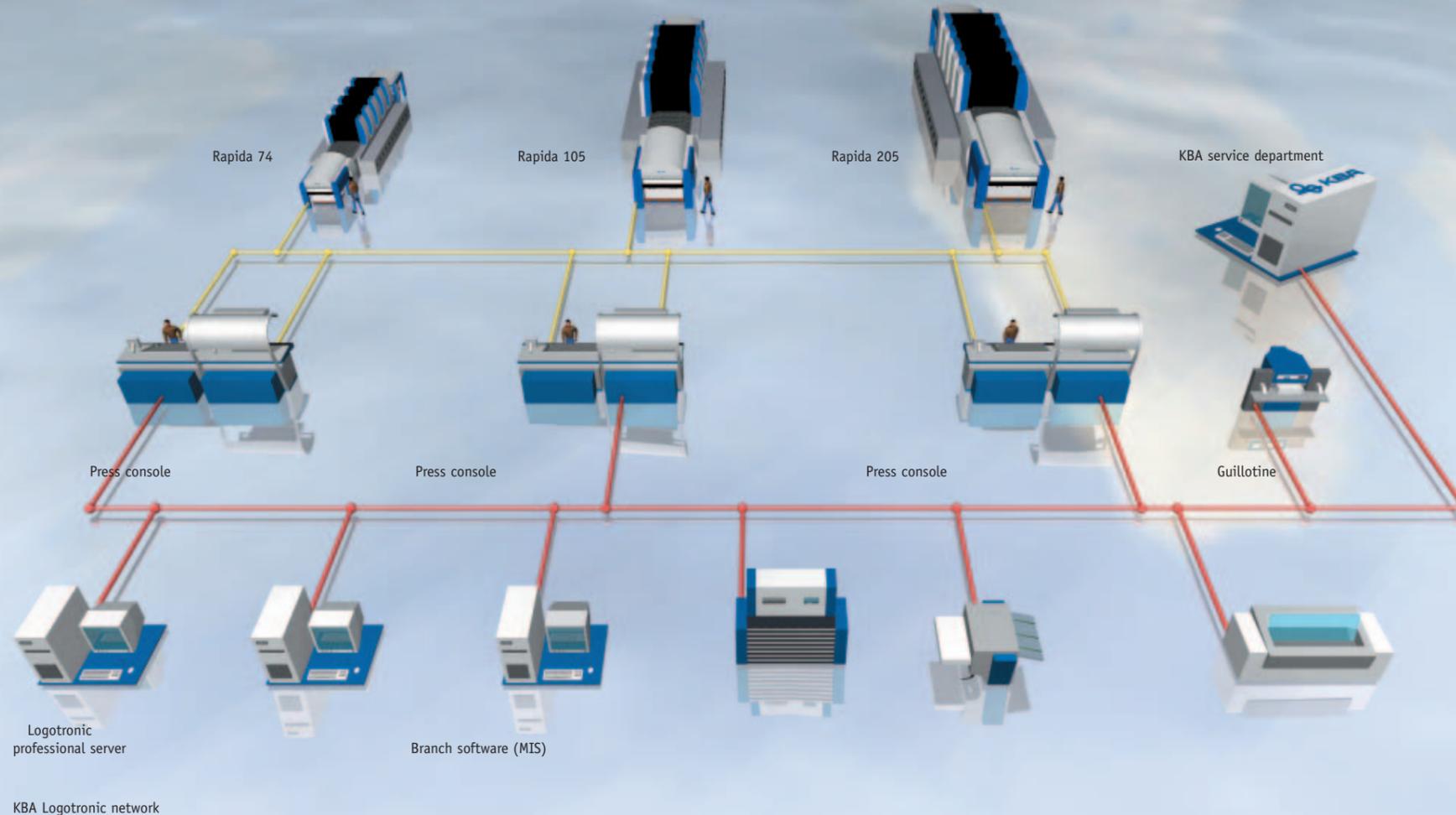
Control PC with TFT display under the console monitor (series-specific)

The quality assurance measurements are performed on a linear pass of the high-speed densitometer across control strips printed on the front edge of the sheet. Back-edge measurement is possible simply by rotating the sheet.

When not in use, the measuring head is parked in a docking station, to which

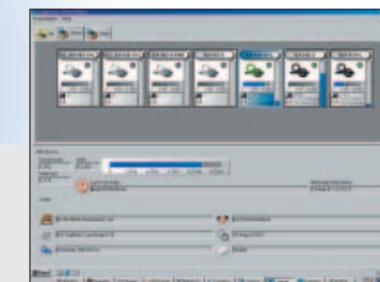
it also returns automatically after completing its measurements. In the standard operating mode, the measured values are recorded during a motor-driven pass of the measuring head across the full width of the sheet. The operating and job data management software, with functions for saving, loading and deleting individual job records, is accessed via a series-specific control PC installed conveniently under the press console monitor. On newer Rapida presses, the functions of this additional PC can generally be integrated fully into the main console.

Densitronic basic can be retrofitted at any time to the Ergotronic console of an existing press.

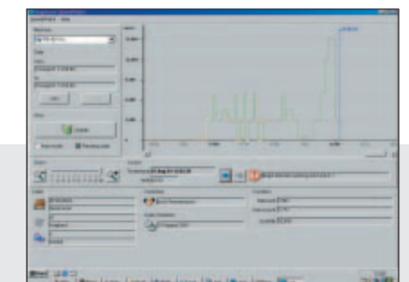


# JDF workflow

## Digital networks



PressWatch visualises up-to-the-minute production data from the individual presses



With SpeedWatch all events and messages relating to the individual presses are summarised in a time/speed diagram

The goal for practically every print enterprise is to possess an unbroken workflow from order receipt to product dispatch. Since so many different machines and programs are involved, such workflows are scarcely 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 professional and Logotronic basic, 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:

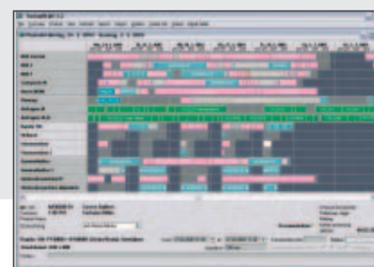
- Unbroken workflow
- Job data can be passed directly from the branch software to the press console. Elimination of job dockets.
- Access to Logotronic professional from all connected workstations
- Presetting and repeat data provide for shorter makeready times
- More effective production per shift
- 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. 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

### Electronic planning chart

To assist job scheduling, an electronic planning chart has been integrated into

Job scheduling with the electronic planning chart



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 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 basic

We also offer a more compact version of the system called Logotronic basic. This version was developed to support the transfer of preset data to the press as simply as possible. Logotronic basic embraces CIPLink (CIP3/JDF data transfer for press presetting), a job log and an online link for a plate scanner. Existing company hardware (server) is used to implement the networking system. Only the presetting data for the ink keys and duct rollers are

# 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 others... There are significantly fewer sections to each poster, a standard City Light poster can even be produced on a single sheet – and let us not forget books.

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 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 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.

A third, no less interesting field 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 runs 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.

And last but not least, ICS could be the key to extremely cost-effective production in packaging printing with the new Rapidas.

Poster designation	DIN A1 reference	Format in cm	Sheet divisions	Press
1/1	A1	59 x 84	4 per sheet	RA 185
2/1	2xA1=A0	84 x 119	2 per sheet	RA 185
3/1	3xA1=A0+A1	84 x 178	Single sheet	RA 185
4/1	4xA1	119 x 168	Single sheet	RA 185
City Light Poster 1.4 x 2 m (I, PL)	approx. 4xA1	119 x 175	Single sheet	RA 185
Couloir Metro (F)		140 x 200	Single sheet	RA 205
8/1	8xA1	150 x 200	Single sheet	RA 205
City Light Pillar	approx. 8xA1	168 x 238	2 sections	RA 185
16/1	16xA1	119 x 350	2 sections	RA 185
18/1 (Mega Light)	18xA1	238 x 336	4 sections	RA 185
24/1 (Europoster)	24xA1	252 x 356	4 sections	RA 185/205
6 x 3 m (I, PL)		238 x 504	6 (or 5) sections	RA 185/205
Superposter	approx. 36xA1	290 x 590	6 sections	RA 205
		372 x 526	8 sections	RA 205

Sheet divisions for poster production (selection)

# Remote diagnosis and maintenance

## Service online



**K**BA Service online – that stands for a comprehensive concept for remote diagnosis and maintenance. All avenues of electronic communication, such as telephone, Internet or satellite transmission, are exploited to the full.

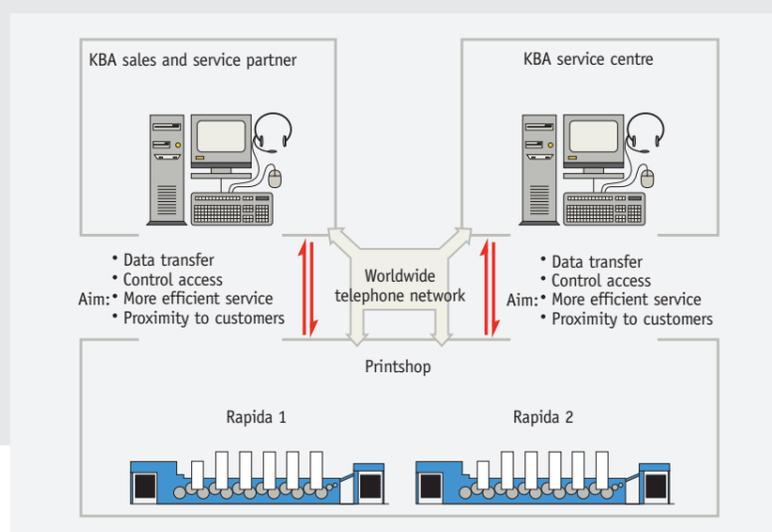
Remote maintenance via modem is a standard feature on all Rapida 185/205 presses. All that is required is a telephone line to the Ergotronic console at the press.

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 and direct updating of the press software.

Through the decentralised control system of the Rapida presses, which interlinks the PLCs controlling the individual press components, it is possible to call up and transmit up to 2,000 different status and error

messages, depending on the level of equipment on the press. Peripherals such as dryers, powder sprayers, inking unit temperature control, etc. can also be integrated into the remote maintenance function.

Worldwide networking with KBA Service online



# Technical data

## At a glance

	Rapida 185	Rapida 205***
Max. sheet format:	1300 x 1850 mm	1510 x 2050 mm
Min. sheet format:	900 x 1350 mm	900 x 1350 mm
Max. print format:	1290 x 1850 mm	1490 x 2050 mm
Gripper margin:	10 +/- 1 mm	10 +/- 1 mm
<b>Max. printing speed:**</b>		
Press up to 6 printing units:	11,000 sh/h	9,000 sh/h
<b>Substrates:</b>		
Standard press:	0.1-0.6 mm thickness 100-600 g/m <sup>2</sup>	
Board equipment:	up to 1.2 mm thickness > 600 g/m <sup>2</sup>	
Corrugated equipment:	up to 1.6 mm thickness	
<b>File heights:</b>		
Feeder with/without non-stop:*	1400/1200 mm	1400/1200 mm
Delivery with/without non-stop:*	1100/1020 mm	1100/1020 mm
<b>Plate/blanket dimensions:</b>		
Plate size:	1425 x 1860 mm	1560 x 2060 mm
Plate cylinder packing:	0.7 mm	0.7 mm
Blanket size:	1600 x 1890 mm	1655 x 2090 mm
Blanket cylinder packing:	2.75 mm	2.75 mm
Coating plate for semi-auto. plate changing:	1420 x 1860 mm	1555 x 2060 mm
Coating cylinder packing (coating tower):	3.25 mm	3.25 mm
Copy line:	71 mm	43 mm

\*) Special equipment and options are not included in the basic price of the press.

\*\*) The given maximum print output indicates the technically possible performance. The outputs achieved in actual printing production are dependent on various processing parameters, in particular on the distribution of the images on the sheet and the properties of the inks and substrates used.

\*\*\*) Print formats and plate sizes can be adapted to the specific requirements of the individual user.