KBA COMPACTA 215

**Innovative 16pp commercial web press
for easy handling and superb economy**

KBA
Koenig & Bauer AG

Vision and reality

Fit for the future

If you want to be fit for the future, you must look beyond the present and seize opportunities which, not so long ago, did not even exist.

This brochure on the KBA Compacta 215 presents a concept for high-quality, economical web offset presses – a technology which KBA was the first to launch worldwide.

The Compacta 215 represents a huge step forward in commercial web offset and redefines the parameters for performance, quality and economy in the 16-page sector.

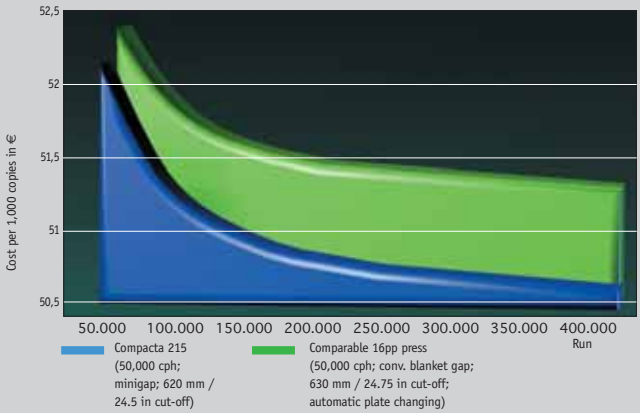
On the following pages you can discover how, with the new Compacta 215, you can improve your calculations by slashing per-thousand-copy costs and satisfy the manifold demands of your customers by enhancing your production versatility and delivering a superb print quality.

New developments in press engineering such as individual shaftless drives, decentralised intelligent controls, paper-saving minigaps on plate and blanket cylinders, and the automatically convertible KBA F3 gripper folder, make the Compacta 215 one of the most advanced 16-page web offset presses on the market in its medium-output class.

Highlights in brief

- Shaftless drives – a world first in commercial printing
- Minigap to cut paper consumption and enhance format flexibility
- Automatically convertible F3 gripper folder for high-speed set-ups
- Decentralised, intelligent control technology at component level
- Digital networking via KBA Logotronic
- Beltless high-performance reelstand KBA Pastostar RC with integrated paper logistics via KBA Patras
- Film inking units with exceptionally high degree of regularity
- Dampening unit designed for alcohol-free printing
- Printing pressure adjustable for different paper thicknesses without blanket packing
- Multi-ring bearings for excellent print quality
- Cantilevered turner bars, formers etc. for easy access and accurate fold settings
- Automatic plate changing

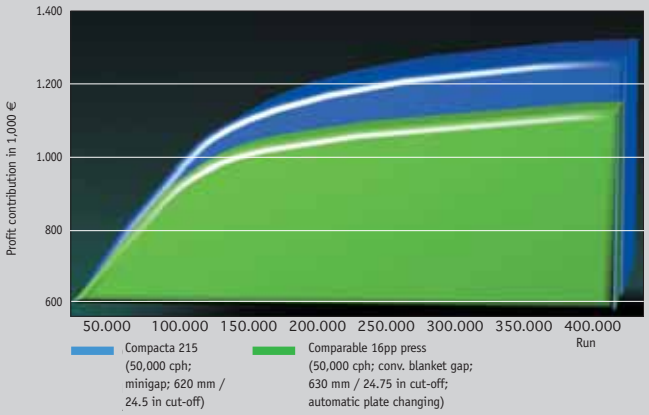
Cost per 1,000 copies in €



Compacta 215 (50,000 cph; minigap; 620 mm / 24.5 in cut-off)

Comparable 16pp press (50,000 cph; conv. blanket gap; 630 mm / 24.75 in cut-off; automatic plate changing)

Annual profit contribution in € (run-dependent)



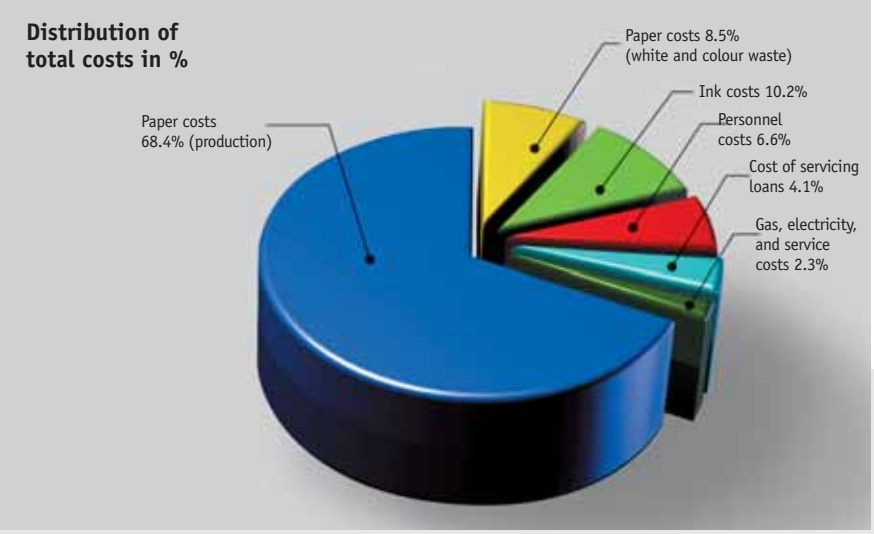
Compacta 215 (50,000 cph; minigap; 620 mm / 24.5 in cut-off)

Comparable 16pp press (50,000 cph; conv. blanket gap; 630 mm / 24.75 in cut-off; automatic plate changing)

Model calculation based on cost assumptions and optimum production conditions: 70 gsm (45 lb) paper, 4 printers, working hours 24 h/day, 5 days/wk and 50 wks/yr

Improve returns

Cut costs



In commercial web offset, the decisive criterion for competitiveness is the cost per 1,000 copies. Alongside set-up times and print output, the biggest cost factor is paper, which accounts for some 70 % of total production costs.

This is why the KBA Compacta 215 has been engineered to cut paper waste, while at the same time reducing makeready times with its high level of automation.

A minigap on plate and blanket cylinders narrows the non-print margin to just 6 mm (0.25 in), while the pinless gripper folder eliminates the pin trim. This means you can print A4 products on a cylinder with a circumference of 620 mm (24.5 in) instead of the previously standard 630 mm (24.75 in).

At the maximum production speed of 50,000 cph in triple-shift operation, your savings from reduced paper consumption can total some $ 180,000 per year.

For an average run size of 200,000, again in triple-shift operation, your annual profit contribution from a Compacta 215 with minigap – even with manual plate changing – would be 12% higher than from a commercial press with the same speed, conventional blanket gap and automatic plate changing. Of course, we also supply automatic plate changing with this press.

Even for a run of 50,000 the cost per thousand copies with the Compacta 215 and minigap is significantly lower – and savings increase proportionately for longer runs.

Supplying the paper

'just in time'

The standard features of the KBA Pastostar RC include motor-adjustable reel arms to handle reels of different widths

KBA Patras A delivers the prepared reels to the reelstands automatically

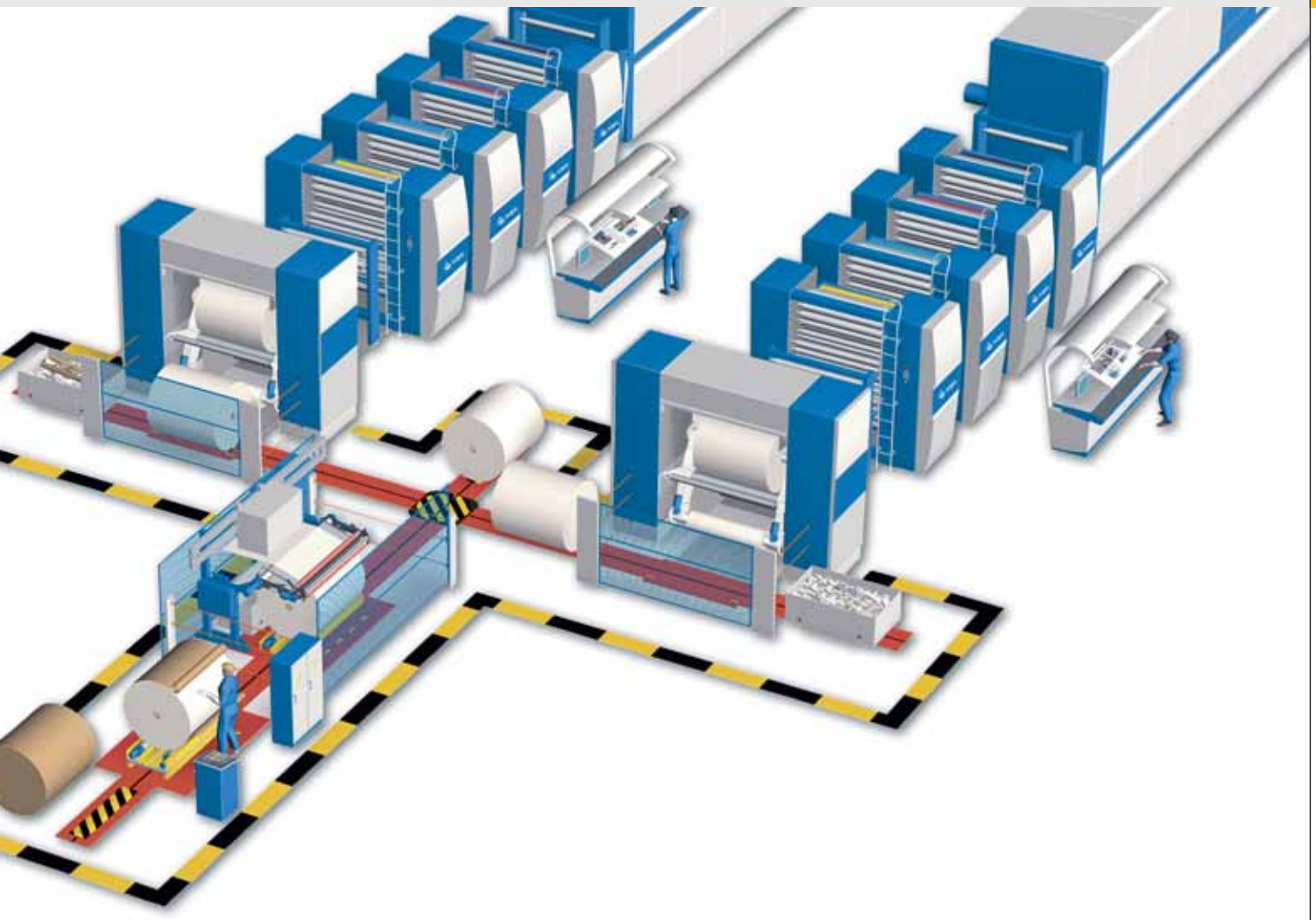
A problem-free supply of paper to the press is essential for a trouble-free print run. To this end, KBA offers the floor-recessed reel-transport system KBA Patras and the reelstand KBA Pastostar RC – in a choice of automation levels to meet individual requirements.

KBA PATRAS
KBA Patras is a flexible, high-performance reel-transport system ranging from a manual version to a fully automated system. Its modular design facilitates optimum adaptation to your production requirements and available space. KBA Patras is a robust system which requires only a minimum of maintenance. It represents excellent value for money and will help to streamline paper logistics for reduced wastage and impressive cost savings.

The manual versions offer economical solutions for small and medium web installations. At the highest automation level, the reel is conveyed from the reel store to the feed tracks by AGVs. Weighing units can also be integrated into the system.

KBA Patras is compatible with other reel-transport systems and manual versions can be upgraded with automation at a later date.

The automatic splice preparation station KBA Easy Splice can be installed centrally to serve a number of reelstands simultaneously.



KBA PASTOSTAR RC
The high-performance reelstand KBA Pastostar RC is fully compatible with the modular system of the KBA Compacta 215.

Easy-to-read data screens on the console monitor indicate the current operational status, while automation relieves your press crew of mundane tasks. A new reel is spliced onto the expiring one at full production speed. The reel change is initiated when the expiring reel reaches a prespecified diameter based on paper thickness and web speed. The beltless drive system makes splice preparation especially easy.

The standard split arms are infinitely adjustable by motor. This ability to handle reels of different widths affords much greater flexibility when switching from one product to another.

Automatic webbing-up
The web-up chain available as an option for the KBA Compacta 215 cuts changeover times and eases operation.

The web is suspended from a chain guide at the reelstand on the drive side of the press. It is then drawn through the infeed unit, printing units, dryer and chill roll stand up to the slitter in the folder superstructure in just three minutes.

The display in the side frame presents important operating data and enables production parameters to be entered at the reelstand

Printing units with future-oriented individual drives

The primary objectives in developing the printing units for the KBA Compacta 215 were easy operation, reduced maintenance, the best possible print quality and the ability to print a wide range of stock thicknesses.

Pre-loaded multi-ring bearings with zero play eliminate the need for bearer rings with this press. Extensive practical experience has shown that the print quality obtained is superb. The absence of bearer rings brings the added bonus of reducing maintenance time and costs.

A further advantage of the bearer-free system, as far as user-friendliness and efficiency is concerned, is that there is no need to pack the blanket cylinders when printing stock of different thicknesses. The upper blanket cylinder can be set relative to the lower one without changing the printing pressure on the upper plate cylinder.

Each individual printing unit is driven by an AC servo motor, which is also used as drive motor for plate changing and other makeready tasks. This shaftless drive system makes operation very much easier.

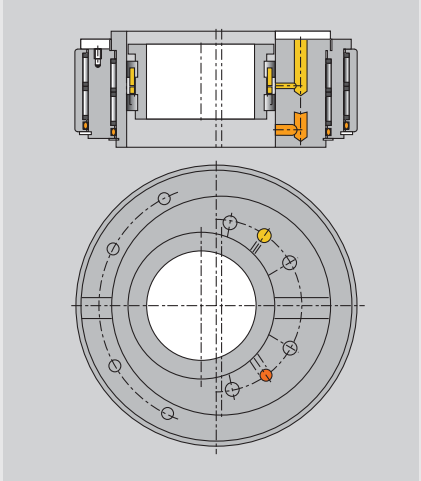
The replacement of drive gears, clutches etc. by an 'electronic' shaft also reduces potential sources of abrasion.

Flexible and user-friendly

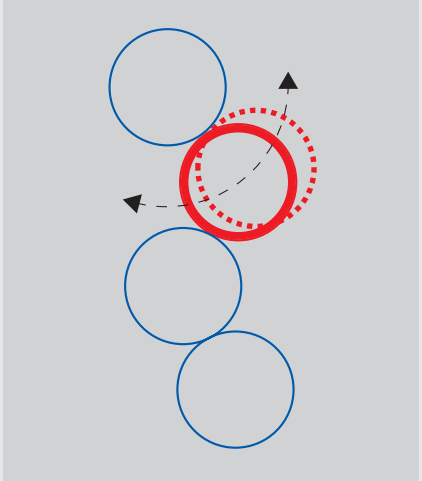
On-the-dot colour

The printing unit can handle stocks of different thicknesses without the need to pack the blanket cylinder...

...and with excellent quality



Four-ring eccentric bearing



Adjusting printing pressure to print stocks of different thicknesses

Semi-automatic plate changing can also be upgraded to the fully automatic system at a later date.

The semi-automatic version of the system already cuts makeready time considerably

The KBA Compacta 215 incorporates film inking units with 14 rollers (17 splitting points). This guarantees an optimum quality even when printing demanding formes with an unfavourable image layout. The quality of ink laydown is demonstrated by the exceptionally high degree of regularity.

Prime components of the inking units are the Colortronic ink fountains with integral electronics. The metering elements have carbide tips, while the fountain rollers are ceramic-coated. There is a total absence of bleed in the zones, ink application is 100% uniform – even during long runs – and repetitive accuracy is extremely high. The distance between ink keys is 32 mm (1.25 in).

The first forme roller oscillates in order to eliminate ghosting on difficult printing formes. An automatic ink supply is available as an option.

Dampening unit for alcohol-free printing

The dampening unit on the Compacta 215 facilitates both direct and indirect dampening. In the case of indirect dampening, the dampening forme roller (no. 10) is in contact with the ink distributing roller (no. 5), whereas the contact to the distributing roller is broken during direct dampening. The dampening forme roller (no. 10) oscillates when dampening directly in order to eliminate water streaks and ghosting.

Tailored automation

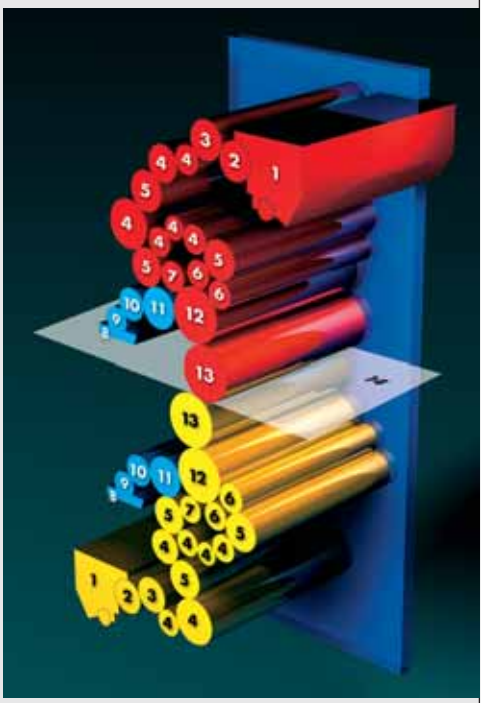
Plate change made easy

Autoplater for fast job changes
The targets set when developing the C215 were short makereadies, operator-friendly handling and the greatest possible economic efficiency.

For a manual plate change (which can be carried out with the web still in the press), the cylinder can be positioned by pushbutton to be ready for the plate change. The plate is held by a quick-release clamp. The individual drive system allows the plates on the printing units to be changed either individually or simultaneously. A complete change of plates on a press with four printing units takes 2 personnel approx. 8 minutes.

Semi- and fully automatic plate changing cuts this time even further. There are no time-consuming clutching sequences and the plate cylinders can be positioned accurately ready for the plate change. A fully automatic change of all 8 plates on a press with 4 printing units takes approx. 2 minutes.

1 Ink fountain
2 Ink fountain roller
3 Film roller
4 Ink transfer rollers
5 Ink distributing roller
6 Ink forme rollers
7 Ink forme roller (oscillating)
8 Dampening fountain
9 Dampening fountain roller
10 Dampening transfer roller
11 Dampening forme roller (oscillating)
12 Plate cylinder
13 Blanket cylinder
14 Web



Printing unit with film inking unit

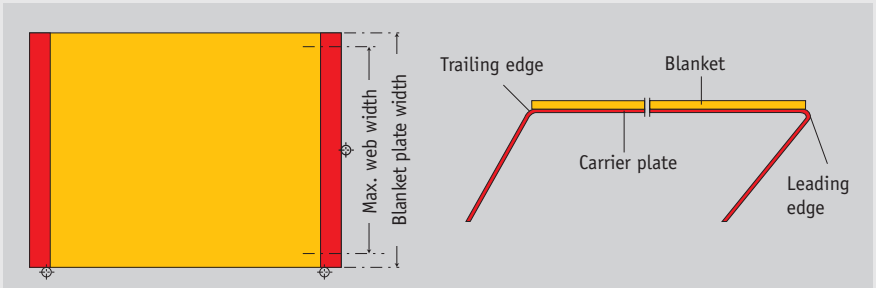
Costs Down, Quality Up

Practice-oriented minigap technology

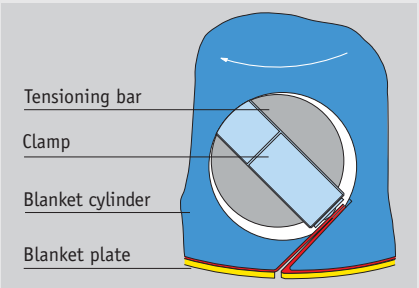
As with the high-performance KBA Compactas 217 and 318, the plate and blanket cylinders on the Compacta 215 boast KBA's minigap technology which has already proven its effectiveness at maximum speeds in continuous operation. The minigap narrows the non-print margin to just 6 mm (0.25 in). This can bring big savings in paper and therefore in production costs.

Instead of the conventional type of blanket, the minigap system operates with a blanket plate. The blanket is vulcanised onto a metal carrier plate which is bent at each end. The acute-angled edge is inserted in the leading cylinder gap, the obtuse angle in the trailing gap. The blanket is clamped by turning the tensioning bar. Retensioning is not necessary.

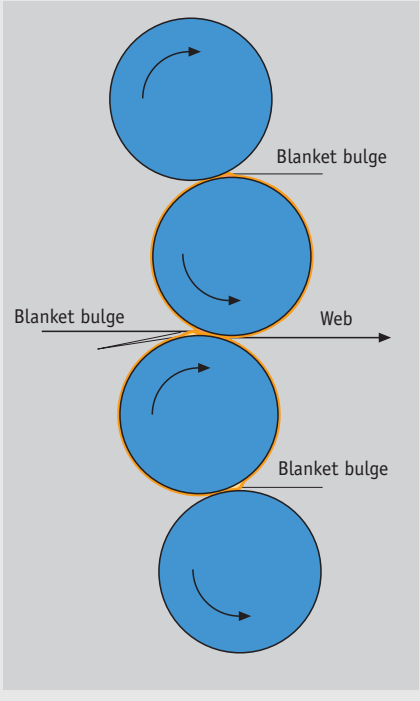
One major advantage of KBA's minigap in comparison to sleeves is that the special clamping system allows the trailing edge of the plate to move deeper into the gap during production. This compensates for the differences in length caused by the blanket fulling and changes in blanket temperature, and thus eliminates the risk of the carrier plate breaking. The gap remaining after the blanket plate has been mounted allows the blanket to relax.



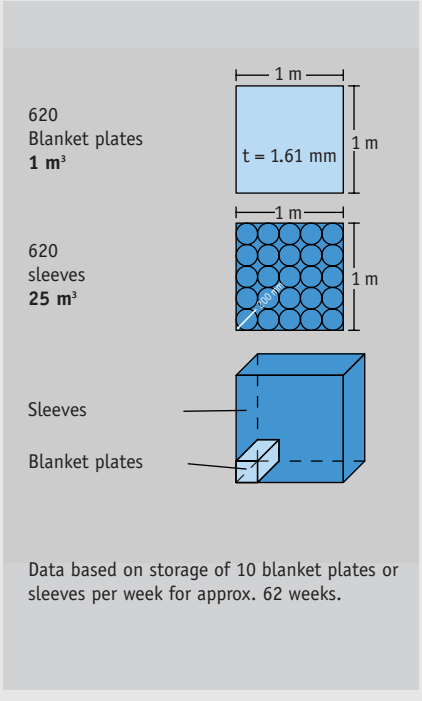
Blanket plates comprise a printing blanket vulcanised onto a metal carrier



Minigap technology saves paper



Behaviour of the blanket in the printing zone



Data based on storage of 10 blanket plates or sleeves per week for approx. 62 weeks.

Space also costs money! Comparison of the storage space requirements for blanket plates and for sleeves

A further advantage is that blanket plates take up a mere fraction of the storage space required by sleeves and are also easier to handle. The blanket plates can be changed in just two minutes, as opposed to ten minutes for conventional blankets. All proprietary blanket washing systems can be used.

An added bonus is that the minigap allows a wider range of formats to be printed because the print-free margin is much narrower, and promotes a smooth press run because cylinder bounce is virtually eliminated.

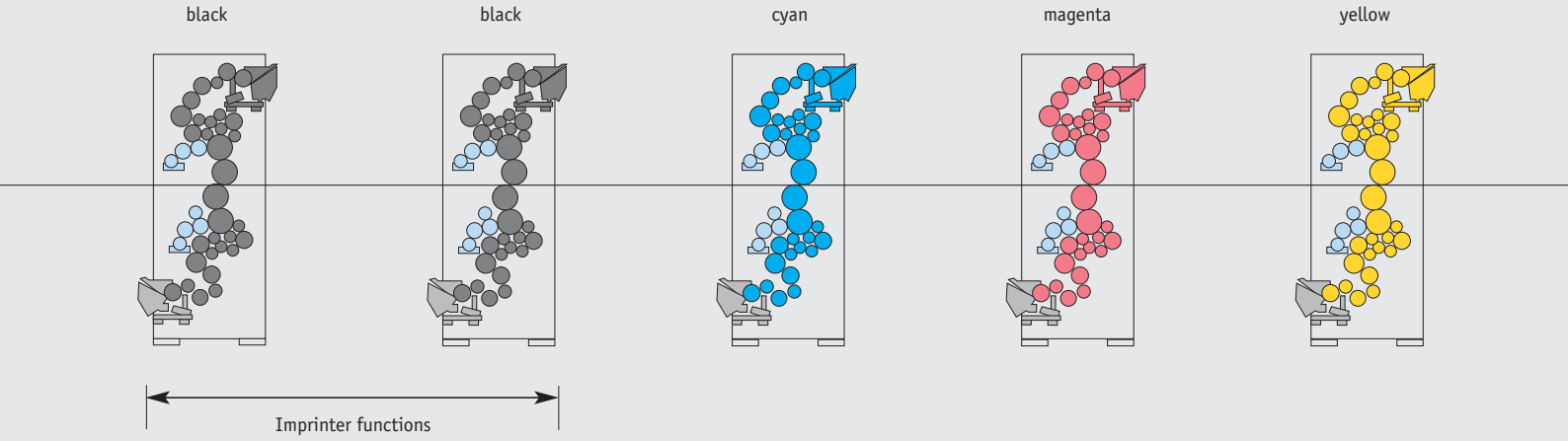
Variable imprinter technology

Seize new opportunities

Long runs with frequent imprint changes are a major trend in commercial printing today, especially for mailings. In response, KBA has redefined the approach to imprinter technologies, incorporating new features only now possible thanks to individual drives.

Conventional imprinters permit flying imprint changes on only one side of the web, for example address changes or variable price markings.

The newest imprinter solutions, which KBA already pioneered well ahead of its

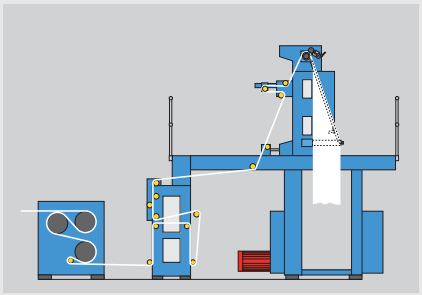


Modern imprinter technology enables simple imprint changes on both sides of the web

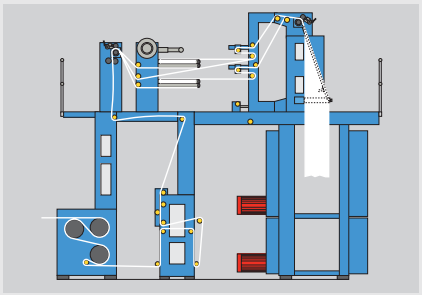
rivals, are built around additional "normal" printing units. The individual drives enable two separate printing units to be activated and deactivated alternately and thus facilitate simple flying imprint changes at full production speed. In contrast to conventional imprinters, the changes can here be initiated simultaneously for both sides of the web, e.g. to produce different language versions of a brochure. It goes without saying that the "imprinter" units can also be used as fully-equipped printing units for production with spot colours, etc., bringing a further boost to production flexibility.

Exploiting synergies

Gravure superstructure know-how

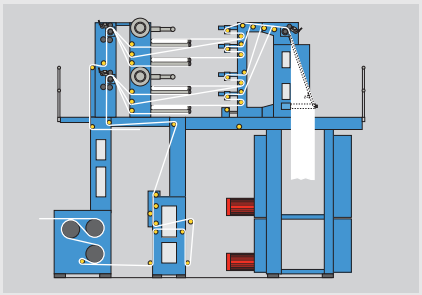


Superstructure 1 web 'straight-on'

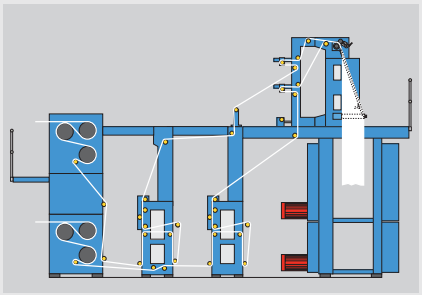


Superstructure 1 web with turner bars
F3 with 2 x 8pp module

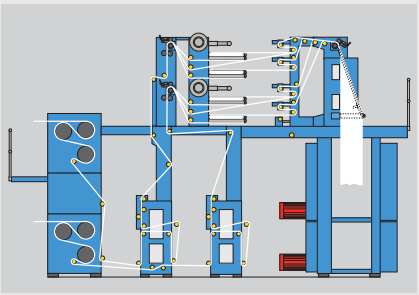
The superstructure is engineered for a web width of 1,000 mm (39.5 in) and owes a lot to Frankenthal's gravure know-how. For example, all essential elements such as turner bars, former and RTF are cantilevered for easy access.



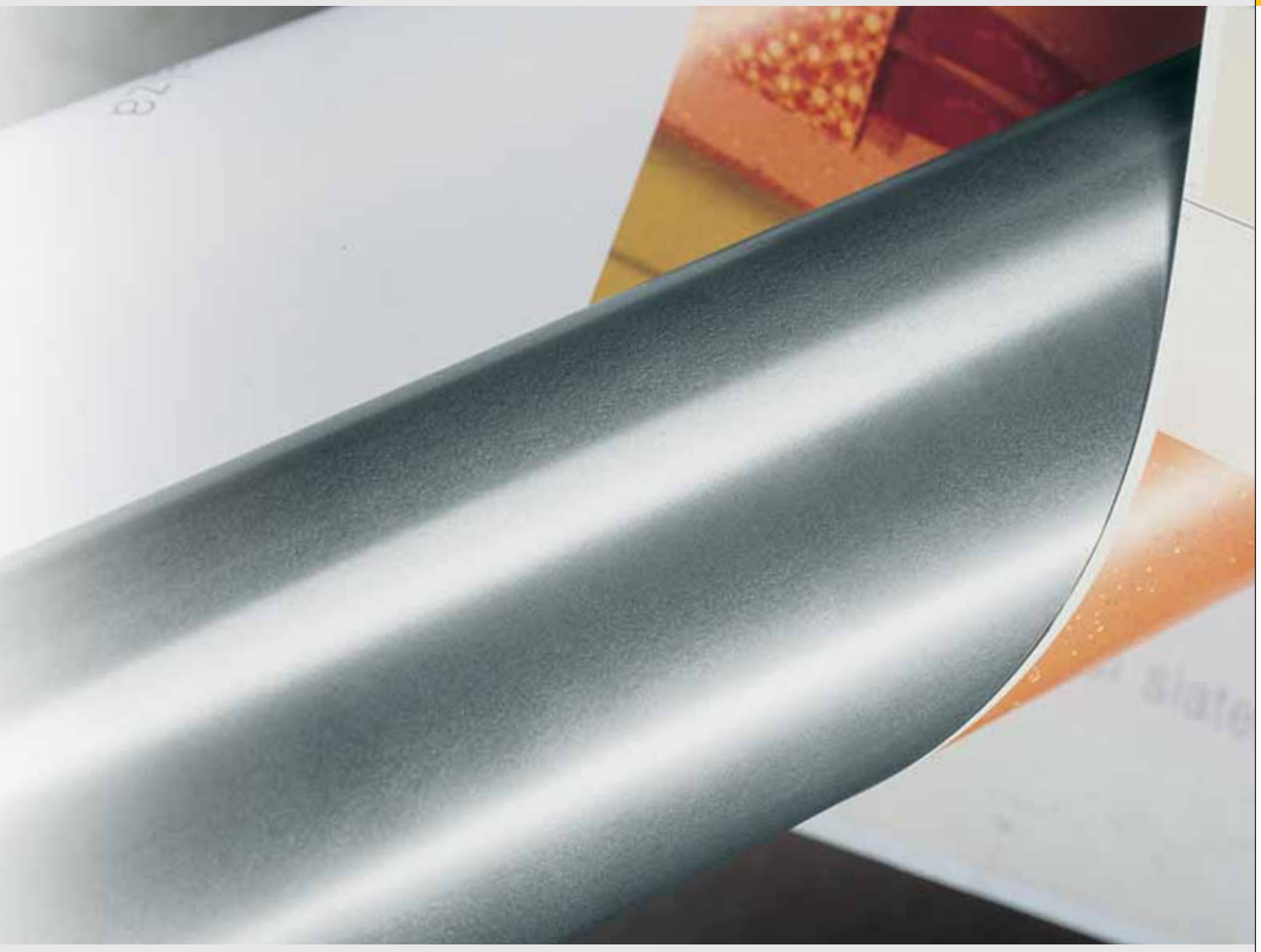
Superstructure 2 webs for parallel production
F3 with 2 x 8/16pp module



Superstructure 2 webs, straight-on production
F3 with 2 x 8/16pp module



Superstructure 2 webs with all modules
F3 with 2 x 8/16pp module



Ribbon travel has been kept to a minimum, and web-up times cut by nearly one-third. The key draw units in the superstructure (main draw roller, former roller etc.) are driven directly by 3-phase AC motors. The modular design and individual drives allow the superstructure to be adapted easily to different types of production, e.g. draw and slitting unit with subsequent turner bars, second web, cross leads to a parallel press, auxiliary former, perforating unit, length gluing unit and plough fold.

The slitters operate like scissors and, because they are cantilevered, can be changed in less than five minutes. A trimming system trims the web on both sides. The trimmed strip is severed by a driven knife and drawn away by suction.

The cantilevered turner bars are adjustable in their pivot direction via a simple screw. They are available in a choice of widths and can be interchanged according to production requirements.
New design developments, furthermore, cut the air consumption significantly and save valuable energy. The bars at the same time remain free of contamination and guarantee a more stable passage of the ribbons. Linear register rollers afford optimum control of the cut-off register.

The entire former section can be shifted in the direction of web run, and the angle of the former nose is adjustable. Even the rollers beneath the former are adjustable in all directions via universal joints, ensuring a perfect former fold. Before the web reaches the turner bars, it is chilled to room temperature via the chill-roller stand. The first chill roller is also a measuring roller for registering web tension. With its large angle of wrap, the three-roller system achieves an optimum chill effect with a low amount of chill water. This helps to save energy.

Production flexibility, the shortest possible changeovers, high folding accuracy, low maintenance and absolute reliability – these were the targets set in developing the folder for the KBA Compacta 215.

To exploit the minigap's full potential for saving paper, a pinless gripper folder is a must, and this is where development engineering has benefited from Frankenthal's substantial lead in folder technology and expertise over our competitors. Gripper folders have been built in Frankenthal for several decades, primarily for gravure presses operating daily at web speeds of up to 16 mps or 3,150 fpm.

The standard version of the KBA F3 gripper folder has a first cross fold, double parallel fold, delta fold (with or without subsequent quarterfold), timed length perforation, and cross perforation depth-adjustable on the run.

Folder conversion for different types of production is 100% automatic from the console and takes between two and six minutes, depending on the particular fold.

Positioning the 2 x 8pp module beneath the folder allows 2 x 8 poster pages (closed at the head) or, for a two-web installation, 2 x 16 poster pages to be printed. In addition, a cut-off cassette with its own electric drive can be integrated for the production of 2 x 4, 2 x 8, or 4 x 4 pages.

Proven gripper technology

Technology lead for the customer

Gripper technology saves paper

A gripper folder has several advantages over a pin folder above and beyond the potential savings in paper. It produces a high-quality product which is often saleable without trimming. The gripper cylinder runs a little in advance thereby creating slight web tension before the cross fold so that an extremely accurate fold is achieved.

An additional advantage is that grippers are less prone to abrasion and require less maintenance than pins. A jam in the folder, for example, would destroy pins but does not damage grippers. Because the F3 folder has individual drives, there is no need for complex gear trains, electromagnetic clutches etc., which eliminates further potential sources of abrasion.

Systems not required for the current run can be left stationary, reducing energy consumption and abrasion still further, and extending service and maintenance intervals. During monitoring work, the individual drives allow the cylinder group to be positioned to the millimetre for the gripper or folding knife.

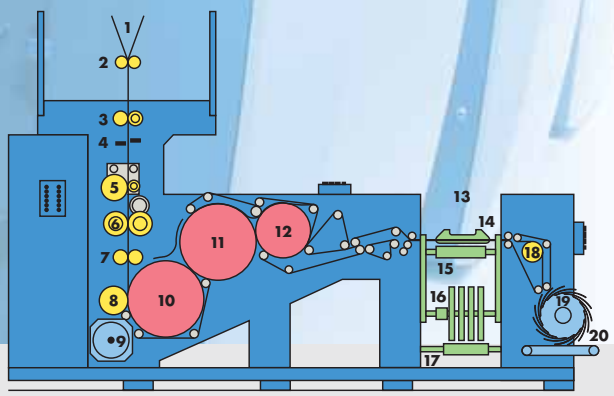
One particularly useful production feature is that the circumferential setting of the electrically driven spider wheel can be adjusted on the run to suit different copy weights, thus improving the delivery quality of the copy stream.

A host of further technical refinements ease your crew workload and increase folder productivity and reliability.

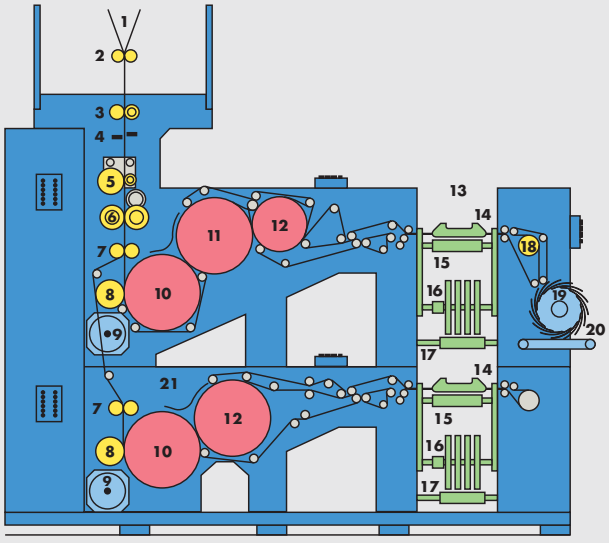
For example, a new severing unit ensures that the in-running ribbon cannot jam back at the severing knife and damage the draw roller.

The stop in the quarterfold can be cleaned of trimmings during production.

It is possible to configure the folder without the double parallel and delta folds if your product structure is such that these are not required. All extension modules are naturally also available for this version.



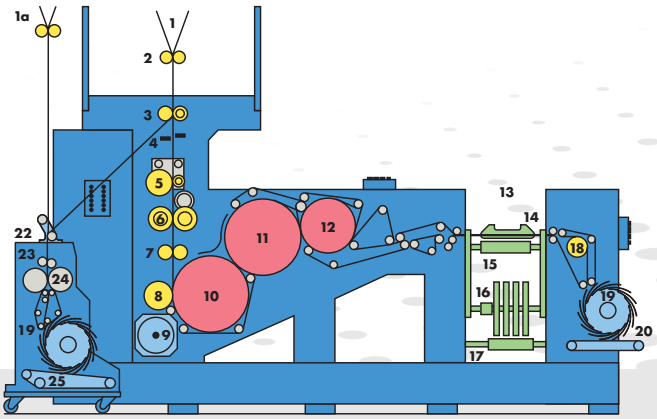
Folder F3



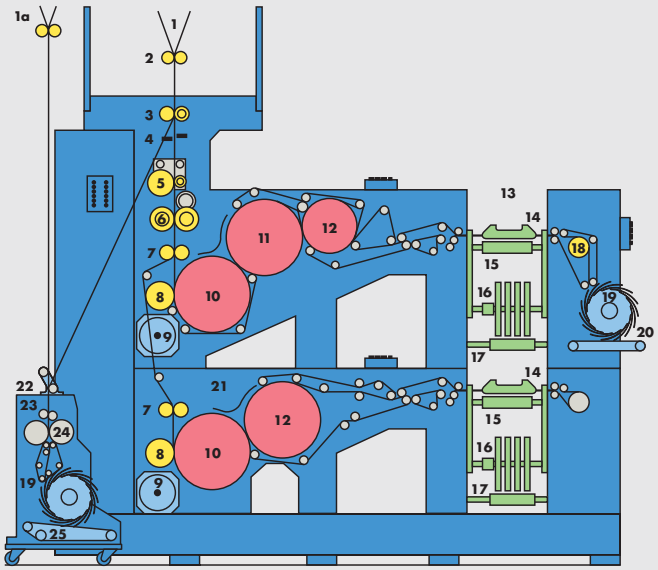
F3 with extension module, 2 x 8pp or 2 x 16pp

Intelligent modular technology

Matching individual needs



F3 with cut-off cassette

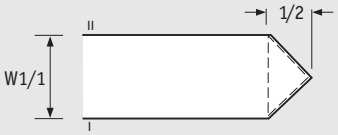
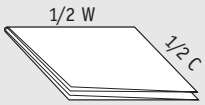
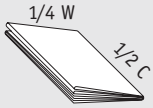
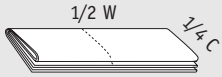
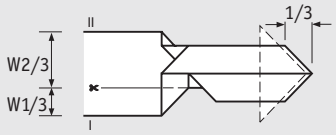
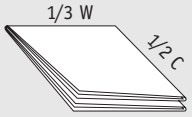
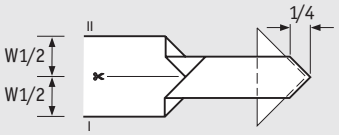
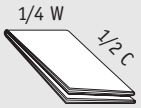
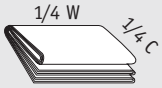
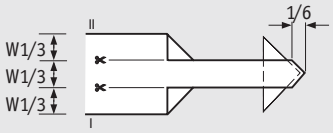
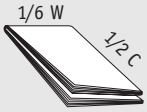
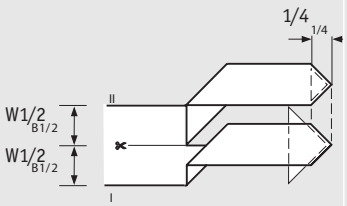
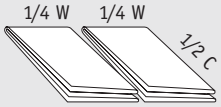
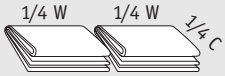


F3 with extension module, 2 x 8pp or 2 x 16pp and cut-off cassette

1 Former (standard width)
1a Former (half-width)
2 Former fold rollers
3 Driven draw rollers
4 Severer
5 Length perforator
6 Cross perforator
7 Driven draw rollers
8 Knife cylinder
9 Individual main motor
10 Gripper/folding-knife cylinder
11 Folding-jaw and -knife cylinder
12 Folding-jaw cylinder
13 Quarterfold
14 Folding knife
15 Folding rollers
16 Spider wheel
17 Sheet exit (lateral)
18 Tape roller
19 Spider wheel
20 Sheet exit (cross fold delivery)
21 2 x 8pp module
22 Extension module, cut-off cassette (to 1/2 circumference)
23 Driven draw rollers
24 Knife and grooved cylinder
25 Sheet exit

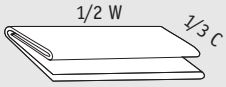
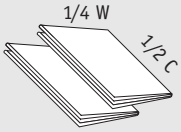
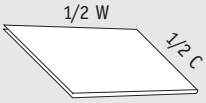
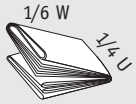
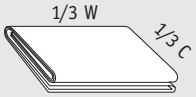
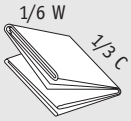
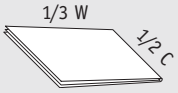
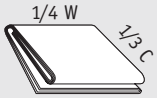
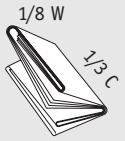
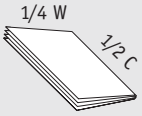
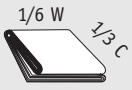
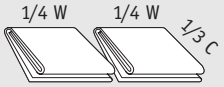
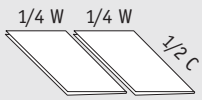
Production options

Perfect products in every variation

	Web leads	Standard folds		
		1 Former fold First cross fold	**2** Former fold First cross fold Quarter fold	**3** Former fold Double parallel fold
a	 Standard	 8 pages A3 1/2 C = 310 1/2 W = 500 max./210 min.	 16 pages A4 1/2 C = 310 1/4 W = 250 max./105 min.	 32 (2 x 16) pages A5 (Two-up) 1/4 C = 155 1/2 W = 500 max./210 min.
b	 Auxiliary equipment	 12 pages 1/2 C = 310 1/3 W = 333 max./165 min.	 24 pages 1/2 C = 310 1/6 W = 166 max./105 min.	 24 pages 1/4 C = 155 1/3 W = 333 max./165 min.
c	 Auxiliary equipment	 16 pages A4 1/2 C = 310 1/4 W= 250 max./165 min.	 32 pages 1/2 C = 310 1/8 W = 125 max./105 min.	 32 pages A5 1/4 C = 155 1/4 W = 250 max./165 min.
d	 Auxiliary equipment	 24 pages 1/2 C = 310 1/6 W = 166 max./165 min.		 48 pages 1/4 C = 155 1/6 W = 166 max./165 min.
e	 Auxiliary equipment	 2 x 8 pages A4 1/2 C = 310 1/4 W = 250 max./165 min.		 2 x 16 pages A5 1/4 C = 155 1/4 W = 250 max./165 min.

Circumference C = 620 mm (24.41in)
Web width W = 1,000 mm (39.37in)(max.)
420 mm (16.54in) (min.)

In conjunction with the different web leads in the superstructure, the KBA F3 folder allows the production of virtually all products currently on the market, as the following overview shows:

4 Former fold Double parallel fold Quarter fold	**5** Former fold Delta fold	**6** Former fold Delta fold Quarter fold	**7** Former fold First cross fold Quarter fold **Extension module 8/16pp**	**8** Former fold **Cut-off cassette**
 32 pages A5 1/4 C = 155 1/4 W = 250 max./105 min.	 12 pages 1/3 C = 207 1/2 W = 500 max./210 min	 24 pages 1/3 C = 207 1/4 W = 250 max./105 min.	 2 x 8 pages A4 1/2 C = 310 1/4 W = 250 max./105 min.	 2 x 4 pages A3 1/2 C = 310 1/2 W = 500 max./210 min.
 48 pages 1/4 C = 155 1/6 W = 166 max./105 min.	 18 pages 1/3 C = 207 1/3 W = 333 max./165 min.	 36 pages 1/3 C = 207 1/6 W = 166 max./105 min.		 2 x 6 pages 1/2 C = 310 1/3 W = 333 max./185 min.
 64 pages 1/4 C = 155 1/8 W= 125 max./105 min.	 24 pages 1/3 C = 207 1/4 W = 250 max./165 min.	 48 pages 1/3 C = 207 1/8 W = 125 max./105 min.		 2 x 8 pages A4 1/2 C = 310 1/4 W = 250 max./185 min.
	 36 pages 1/3 C = 207 1/6 W = 166 max./165 min.			
	 2 x 12 pages 1/3 C = 207 1/4 W = 250 max./165 min.			 4 x 4 pages A4 1/2 C = 310 1/4 W = 250 max./185 min.

Each printing unit is driven by a dedicated AC positional servo motor

KBA Drivetronic

Pioneering dedicated drives

The KBA Compacta 215 was the first commercial web offset press on the world market to dispense completely with a main shaft.

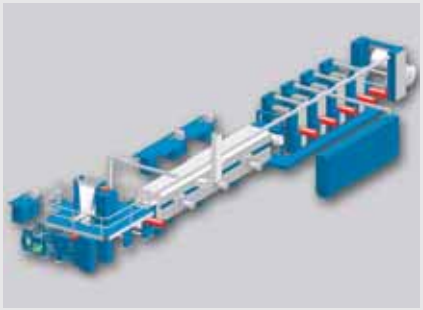
The infeed unit, printing units, chill rollers, draw units in the superstructure and the key modules of the KBA F3 gripper folder are all driven directly via AC positional servo motors. Mechanical shafts have been replaced by a virtual shaft and a CLC card assumes the function of the main drive.

Called KBA Drivetronic, this revolutionary drive technology, which has proven a big success in everyday operation on KBA's newspaper and commercial web offset presses, offers a host of advantages beyond the maintenance-free, energy-saving and fully enclosed 3-phase drives.

For example, auxiliary drives for set-ups are a thing of the past. Register is consistently accurate. Print quality is better because there is no mechanical shaft to generate vibration. The reduction in gearing cuts repair and maintenance work. And there is no mechanical circumferential register – its function is assumed by the individual drives. This all adds up to a smooth machine run, high-speed reactions during control sequences and excellent print quality.

If you decide to extend your modules at a later date – e.g. in the superstructure and folder – nothing could be simpler. The individual subassemblies are pre-installed and tested before leaving the factory, dramatically reducing erection and commissioning times.

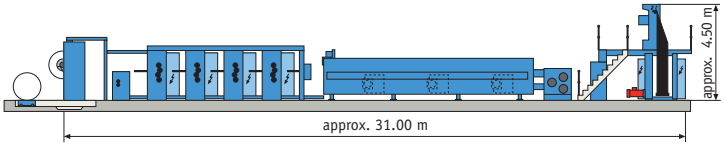
The drives are synchronised via an electronic (virtual) shaft



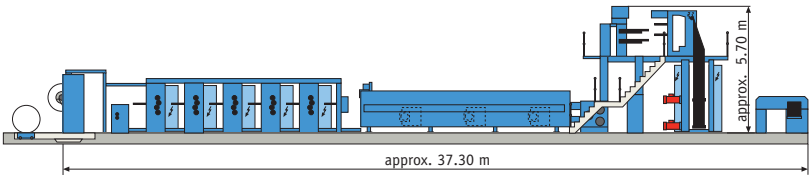
KBA Drivetronic: Individual shaftless drives for the printing units, draw elements and folder facilitate press operation while enhancing the versatility and economic efficiency of the KBA Compacta 215

Made to measure

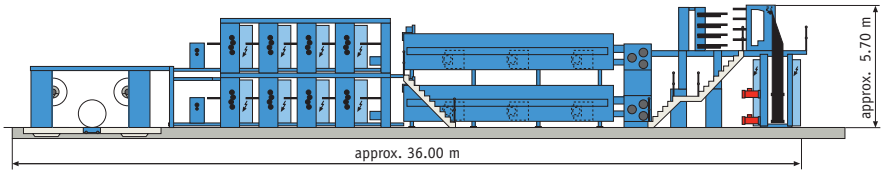
Customised installations



Straight-on press



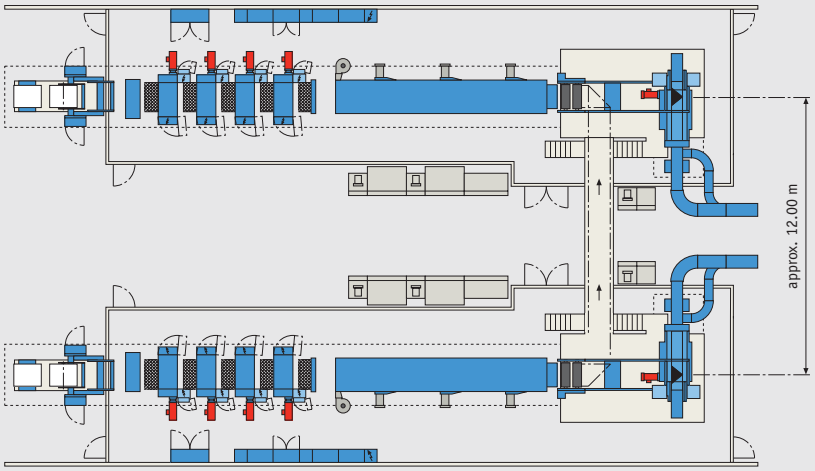
Single-web press with turner-bar deck, 2 x 8pp module and 5 printing units



4 + 4 printing units, 2 webs with all modules

The modular design of the KBA Compacta 215, with its flexible individual drive technology plus numerous modules for the superstructure and KBA F3 gripper folder, offers you enormous flexibility in customising your press configurations to meet individual production requirements.

The modular system also shortens and simplifies project planning for new installations. And because the individual subassemblies can be tested before leaving the factory, commissioning times are shorter, too.



2 presses in parallel configuration with cross leads

The Compacta 215 is available in a wide choice of versions from a single-web, straight-on press with four printing units and standard folder to a two-web, eight-unit press with two turner-bar decks with cross leads and F3 folder plus additional 2 x 16pp module. Most components can be retrofitted in the superstructure as and when necessary, so that the press can be modified easily to keep pace with changes in market demands.

Non-KBA equipment, e.g. dryers, silicone units, water-circulation units, etc., are fully integrated into the console system.

KBA OPERA

Dialogue between man and machine

All important commands are initiated from the user-oriented control console

On the high-performance Compacta 215, the user-oriented control console KBA Ergotronic, the automatic press-presetting system KBA Easytronic, the automatic web tension control system KBA Webtronic and the production management system KBA Logotronic are important elements of an integrated automation concept. Through the networking of intelligent control technologies at unit level, the operating crew maintains full control over the whole press through-out all phases of production. With KBA OPERA (Open Ergonomic Automation System), KBA furnishes the modules which are indispensable to master today's increasingly complex press installations and the instant dialogue between man and machine which these demand.

KBA ERGOTRONIC
The new control console of the Compacta 215 is a perfect symbiosis of functionality and aesthetic design. All important production commands, including those for automatic conversion of the folder, are initiated from the console. Clearly arranged data screens with plain-text displays promote accurate and rapid handling via touchscreen controls.

Remote diagnostics and maintenance
KBA service staff can be contacted at any time via a 24-hour hotline for prompt and effective assistance. Modem facilities also enable the KBA customer service department to communicate directly with the computer systems of the Compacta 215, ensuring that any malfunctions can be located and rectified with an absolute minimum of delay.

KBA COLORTRONIC
The Colortronic desk is the press operator's central workplace and permits optimum handling of the ink settings for the upper and lower printing couples. A presetting system for the ink keys is part of the standard package. Broad LED strips provide an immediate indication of the ink profiles set and facilitate fast corrections when necessary.

Intelligent automation concepts relieve the press crew

KBA CIPLink
The CIP3 converter CIPLink is an optional component of the KBA Logotronic system for calculation of the area coverage, and thus of the ink key openings, on the basis of pre-press data. The CIP3 files can be imported from floppy disk, from CD-ROM or online via a local network. In this way, the relevant data from pre-press can be transferred directly into the press in digital form.

KBA EASYTRONIC
The automatic press presetting system KBA Easytronic raises the availability of the press and contributes to considerable savings in wastage. It features, for example, automated web-threading, automatic web width conversion when setting up a new job, run-out washing in accordance with production demands, and defined pre-inking. All superstructure and folder components are preset on the basis of the pre-press data. A single press of a button provides for optimised starting, setting-up and stopping of the press, ensuring the shortest possible production times and an absolute minimum of wastage.

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

Logotronic basic
All KBA Compacta presses are equipped as standard with the Logotronic basic version of the system. This version serves to transfer essential preset data to the press. Logotronic basic embraces the optional modules CIPLink (CIP3/CIP4 data transfer for press presetting) and logging for paper and ink data. The existing company hardware (server) is used to implement the networking system. Presetting data for the ink keys and for the duct roller settings are transferred.

Logotronic professional
To support a digital exchange of job and presetting data for the press, to permit immediate monitoring and systematic evaluation of production data, and to establish links to upstream PPS systems or company EDP networks, the console can be further expanded by adding the open production management system Logotronic professional. The logging of press and production data facilitates operations management, with KBA Logotronic as a source of truly meaningful statistics. Logotronic professional is the central element of communication between KBA presses and the corresponding print company MIS, whether via direct database access or via JDF. The communication module JDFLink implements JDF data exchange.

KBA LOGOTRONIC

Digital workflow

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 in real time.

SpeedWatch
SpeedWatch creates a time/speed diagram, similarly in real time, 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.

JDFLink with Logotronic professional
Interconnection of Logotronic professional via the universal interface JDFLink offers the following advantages:

- Unbroken automated workflow (job data can be passed directly from the branch
- 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

Important information on current print production can be called up from any location

Ecology

Effective environmental management

For you, as a responsible entrepreneur, concern about the environmental compatibility of new production equipment, a sparing use of natural resources and a conscious avoidance of waste are integral aspects of your business and are subject to increasing regulation by government.

Preserving the environment is part of KBA's philosophy and as such is anchored in our guiding principles.

The KBA Compacta 215 successfully combines ecology with economy. The minigap and gripper folders save valuable paper and reduce waste. Maintenance-free, fully enclosed 3-phase drives with minimal wattless power consumption reduce energy consumption, as do individual drives which allow press components to be switched off when not needed.

Environmentally-friendly automatic blanket washing units cut the consumption of washing agents to a minimum. In addition, all relevant press parts can be cleaned with new-generation cleaning agents, e.g. those based on vegetable oils, which improves working conditions for your staff. The dampening unit has been designed both for low-alcohol and alcohol-free printing to cut solvent emissions. Finally, the use of pure materials when manufacturing the press facilitates recycling at the end of its service life.

The Compacta 215 is a model example of how press ecology can benefit print-shop economy.

KBA COMPACTA 215

At a glance

Technical data	
Max. production speed	50,000 cph
Max. web speed	8.7 mps (1,712 fpm)
Cylinder circumference	546 - 700 mm (21.5 - 27.5 in) (details available upon request)
Min./max. web width	420/1,000 mm (16.5/39.5 in)
Standard stock weights	36-130 gsm (23-83.5 lbs), (with sheeter up to 200 gsm 128.5 lbs)

Circumference-related data	Max. web speed	Max. image area
with 546 mm (21.5 in) circumference	7.58 mps (1,492 fpm)	540 x 995 mm (21.25 x 39 in)
with 578 mm (22.75 in) circumference	8.03 mps (1,581 fpm)	572 x 995 mm (22.5 x 39 in)
with 590 mm (23.25 in) circumference	8.19 mps (1,612 fpm)	584 x 995 mm (23 x 39 in)
with 598.6 mm (23.5 in) circumference	8.31 mps (1,636 fpm)	592.5 x 995 mm (23.25 x 39 in)
with 620 mm (24.5 in) circumference	8.61 mps (1,695 fpm)	614 x 995 mm (24 x 39 in)
with 700 mm (27.5 in) circumference	8.75 mps (1,722 fpm)	694 x 995 mm (27.25 x 39 in)

Basic equipment
- KBA reelstand
- KBA infeed unit
- Stretching roller
- Printing units
- Blanket-washing system
- Ink-feed system
- Dampening-water system
- Web catcher
- Dryer without/with afterburner
- KBA chill roll stand
- Superstructure
- Silicone unit
- Web-centre alignment
- Ink-register control
- Cut-off register control
- Length gluing
- Automatically convertible KBA F3 folder – basic module
- Plate-punching machine
- Bending machine

KBA Opera (standard)
- KBA Opera (standard)
- Console (KBA Ergotronic) incl. electrical angle adjustment
- Remote adjustment of inking unit, dampening unit and register (KBA Colortronic)
- Shaftless drive (KBA Drivetronic)
- Production management system (KBA Logotronic): basic
- Data transfer via CIP3 possible

Optional extras
- KBA Patras reel-transport system
- Webbing-up unit
- Imprinting unit
- Automatic plate changer
- Desk illumination
- Height adjustment for desk
- Remoistening unit
- Cross lead for parallel press
- Steel substructure for two-high press
- Auxiliary former
- F3 extension module for 2 x 8 or 2 x 16 pages
- Cut-off cassette for F3 folder
- Cutter and perforator
- Coater and gummer
- Plough fold
- Sheeter
- Compressed-air unit
- Chilling unit

KBA Opera (optional extras)
- Film and plate scanner (KBA Scantronic)
- Production management system (KBA Logotronic): professional
- Online data transmission (KBA CIPLink)

KBA COMPACTA 215 from
Koenig & Bauer AG

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11/2007-e Printed in Germany

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