



# KBA Commander CL

Flexible four-high tower web press with H-type printing units  
for high-quality newspapers and semi-commercials



# Intelligent modular design makes it possible

## Outstanding value for money

KBA has expanded its range to include the new, compact Commander CL (= Classic), a four-high web press whose H-type units stand a mere 2.75 metres (less than 10 feet) high. Its modular construction allows the press to be customised to meet the individual needs of newspaper and semi-commercial printers, making it extremely popular. The Commander CL joins the successful, high-end Cortina and Commander CT. It is available as 4/2, 4/1 and 6/2 configurations.

### Individual features and retrofits possible

Alongside standard manual plate changing this press is available with optional automatic or semi-automatic plate changing for faster makeready, and can also easily be upgraded at a later date. The intelligent module-based design delivers a high degree of flexibility and outstanding value for money. Other benefits include short set-up and washing cycles, fast web infeed via a chain system, easy maintenance, an optimised operating concept with clear displays, and minimal production costs. A less complex concrete

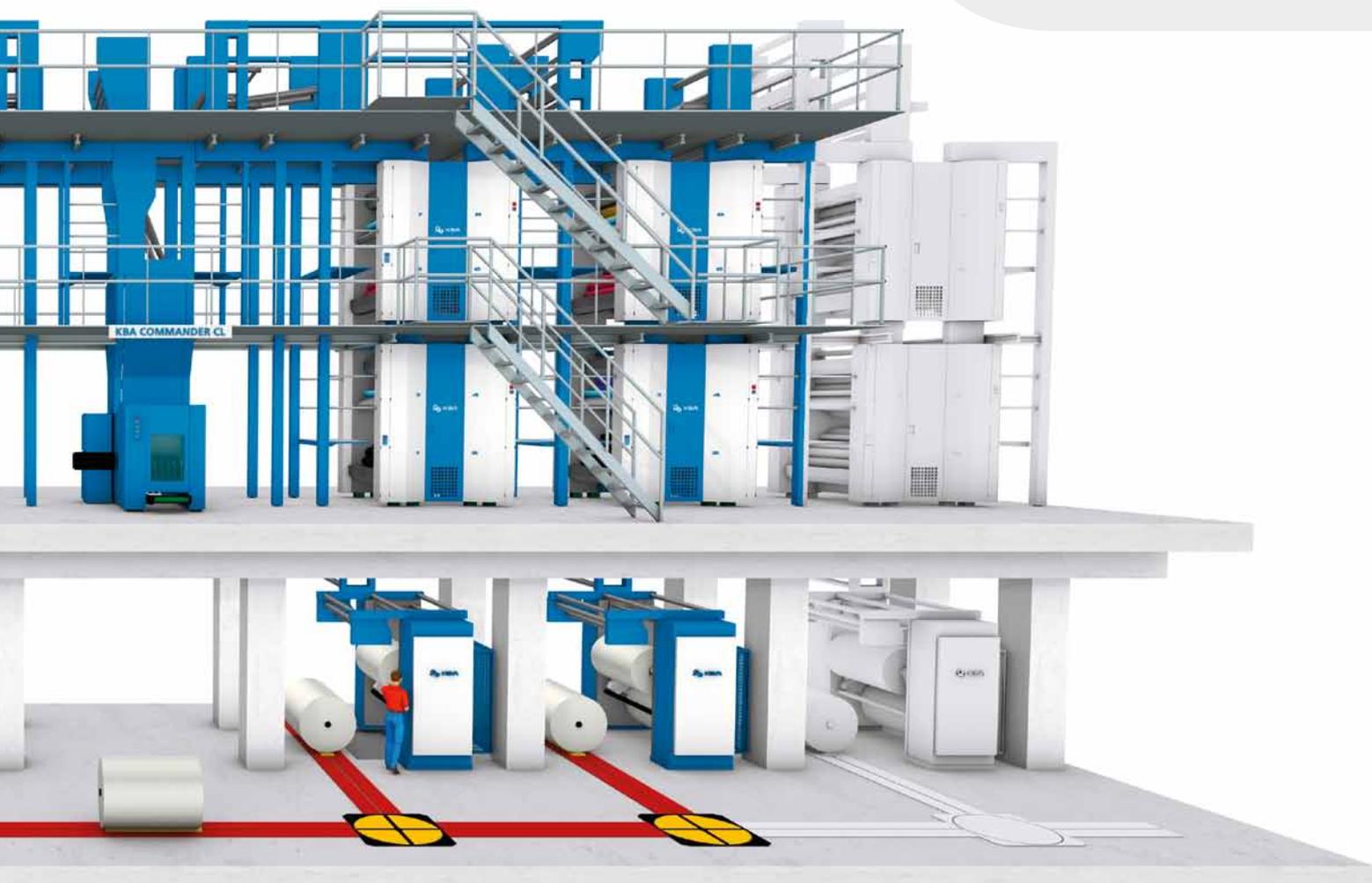
substructure helps reduce initial capital costs.

Depending on the format selected, the press has a maximum output of 90,000cph (4/1: 84,000cph). There is a choice of cut-offs from 450 to 630mm (17.7 - 24.8in) and the maximum web width is 1,730mm (68.1in).

Featuring KBA DriveTronic dedicated drivers, KBA ErgoTronic consoles and MLCs (motion logic controllers), the

Commander CL supports greater flexibility in newspaper and semi-commercial production with an array of market-orientated modules, among them a variable web width and thermal dryer. KBA RollerTronic automated roller bearings, which enable the optimum throw-on pressure to be set at the console, are a standard feature and substantially reduce the need for time-consuming maintenance work at the printing couples.

The Classic version, like our high-end Commander CT, boasts cutting-edge inking-unit technology with three forme rollers for a first-class print and minimal start-up waste. This cuts paper consumption and carbon emissions, while reducing the level of oil in the printing units by more than 50 per cent enhances the Commander CL's green credentials. An



Within a year of launching the Commander CL on the market we booked orders for five press lines with customised levels of automation

array of other optional features offered with our highly successful compact presses, the Commander CT and Cortina, is also available for the Commander CL. They include quick presetting via KBA PressNet and single-button start-up and run-down via KBA EasyStart and KBA EasyClean-up.

The Commander CL also boasts a proven KBA superstructure design, robust KF 3 and KF 5 jaw folders, Pastomat C and CL reelstands and useful features such as a free-standing slitter for a better cut with less dust. An additional option, KBA Patras, is a module-based integrated paper logistics system.

#### KBA Commander CL: major attributes

- Customised automation
- Compact design, short makeready times, minimum production costs
- Four-high tower just 6m (19ft 7in) high with easy access
- Retrofittable automated plate change
- Automatic plate change in less than 3 minutes
- Superior inking-unit technology with three forme rollers
- New cylinder bearings for an excellent print quality
- KBA RollerTronic automatic roller locks
- Dedicated drives throughout for maximum precision
- KBA CleanTronic automatic blanket washing (optional)
- Inking-roller washing unit (optional)
- Heatset package for semi-commercial production (optional)
- Cutting-edge KBA ErgoTronic console technology
- Fast presetting via KBA PressNet (optional)

# Commander CT inking-unit technology

## No compromise on print quality

The Commander CL's off-bearer printing units are precision engineered, compact yet easily accessible. The torsionally rigid box-type construction of the side frames and the new cylinder bearing guarantee a smooth press run and superb print quality.

Towers that are just six metres (19ft 7in) high shorten the distance between the printing couples, reduce fan-out and, in conjunction with mechanical bustle wheels between the stacked H-type units, ensure good registration. Pneumatic bustle wheels are optional.

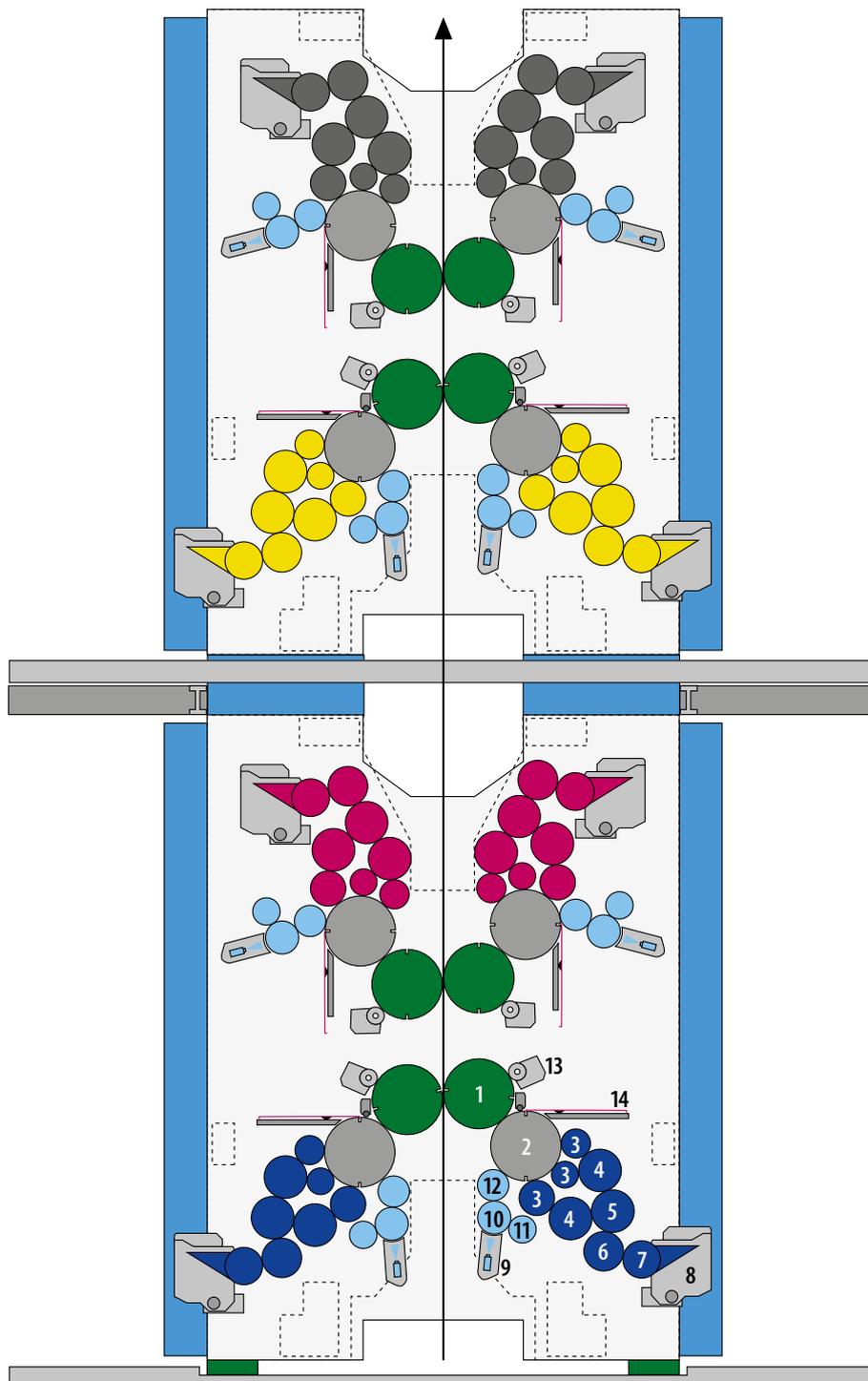
### Intelligent plate and blanket cylinder systems

With the standard lock-up slot used for manual plate change the plates can be mounted fast and in-register without the aid of tools. Continuous slots support the use of double-spread plates. The lock-up slot can be preconfigured for conversion to a pneumatic plate lock in preparation for a subsequent upgrade to automatic or semi-automatic plate changing. A double clamping bar for the blankets allows the leading and trailing edges to be clamped separately for a perfect fit. The blankets can be mounted using an optional spindle system to support heatset semi-commercial production. Provision has been made for the addition of optional blanket washing units.

### Fast run-up to colour

The undershot film inking unit adopted from our Commander CT has full-width ink ducts and three forme rollers (two with a 4/1 configuration). The result is less dot gain, enhanced process stability, frugal ink take-up, outstanding solids, a contrast-rich image reproduction and minimal ghosting. With this inking unit

H-type printing unit (4/2 or 6/2) in a four-high tower that is just six metres high



- 1 Blanket cylinder
- 2 Plate cylinder
- 3 Ink-forme roller
- 4 Ink distributor
- 5 Ink-transfer roller
- 6 Film roller
- 7 Duct roller
- 8 Ink duct
- 9 Spray bar
- 10 Dampening distributor roller
- 11 Dampening roller
- 12 Dampener forme roller
- 13 Blanket-washing unit
- 14 Semi-automatic plate changer

it is possible to achieve a higher colour density and a larger colour space in coldset printing that is above the norm. The roller constellation, with two direct ink trains, makes for a quick response and reduces ink mist. This cuts waste and cleaning input. An automated inking-unit washing system is available as an option, as is inking-unit cooling which we recommend where long-run production is the order of the day.

#### **Optimised spray dampeners**

The new-generation triple-roller spray dampeners are always installed in the pre-

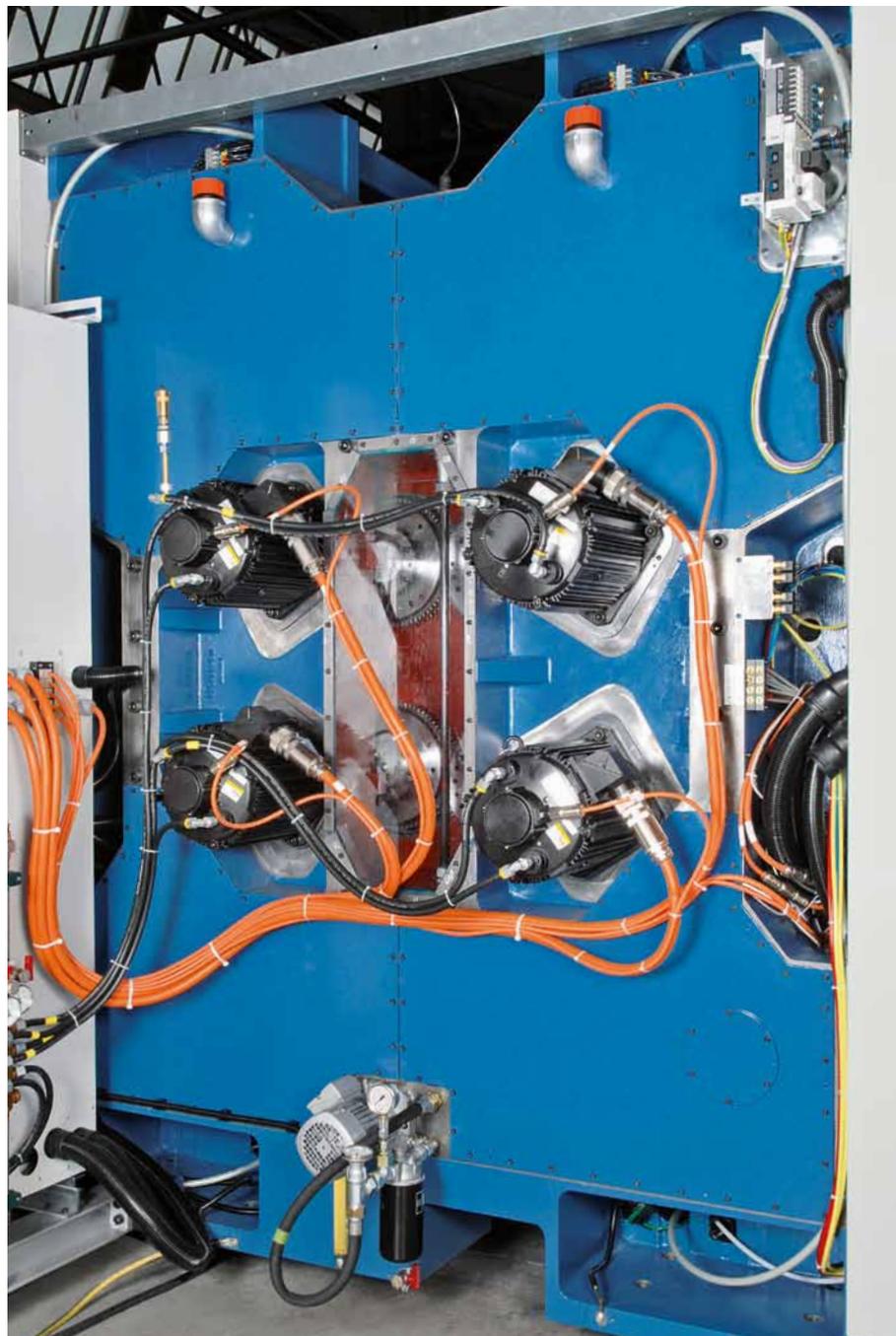
dampening position. The fourth solution is transferred to the dampening distributor roller via an optimised cylinder-wide spray bar with two nozzles per page and individual pulse control for each nozzle. A new nozzle-cleaning function eliminates contamination and reduces maintenance. Where production entails different web widths the spray dampeners can be fitted with optional shutters that are adjustable from the console.

#### **Dedicated drives for each printing couple**

The KBA Commander CL shaftless drive concept incorporates one AC motor per



Robust side-frames and a new type of cylinder bearing ensure a quiet press run



printing couple. Dedicated drives allow an independent, time-saving makeready. They also deliver enormous benefits in terms of operating ease, flexibility, web tension, print quality and waste.

Unlike other makes of press, every printing couple in the Commander CL is driven individually, delivering substantial benefits in terms of handling and makeready

# Practical automation

## Cutting makeready and costs

Practical automation modules such as automatic or semi-automatic plate changers, KBA RollerTronic automatic roller locks, KBA CleanTronic integrated blanket-washing units with washcloths and KBA Patras paper-logistics systems cut makeready and washing times, production waste, manning levels, maintenance and operating input.

### Automatic or semi-automatic plate changing

Optional automatic or semi-automatic plate changers cut makeready and changeover times, creating additional production capacity where frequent job changes are routine. With the automatic system, once the plates have been sorted – in register – into the holder at the relevant printing couple the changing sequence is completed in just three minutes with no further manual intervention. The plates are aligned at the central register, guided to the lock-up slots in the corresponding plate cylinder and locked pneumatically. All the plate cylinders are accessible throughout.

### KBA RollerTronic a unique feature

KBA RollerTronic automatic roller locks are far superior to other systems and have been installed in their thousands. The inking and dampening rollers can be set

or adjusted individually or collectively in a complete section in just two minutes by push-button at the console. Throw-on pressure is set according to predefined reference values and the rollers are then locked mechanically. This results in a more uniform print quality, less roller abrasion, lower energy consumption and a reduction in maintenance input at the printing units. Irksome and time-consuming manual roller setting is a thing of the past.

### KBA Patras reel-handling system

The Commander CL can also be embedded in a KBA Patras paper-reel transport system (see separate brochure), enabling reel logistics to be customised up to and including automatic pagination change. The choice of module-based configurations ranges from manually assisted to fully automated, supporting

total customisation to suit both your production technology and the space available. KBA plans and develops reel-logistics systems to your individual specifications.

Right: Automated plate changing in less than three minutes

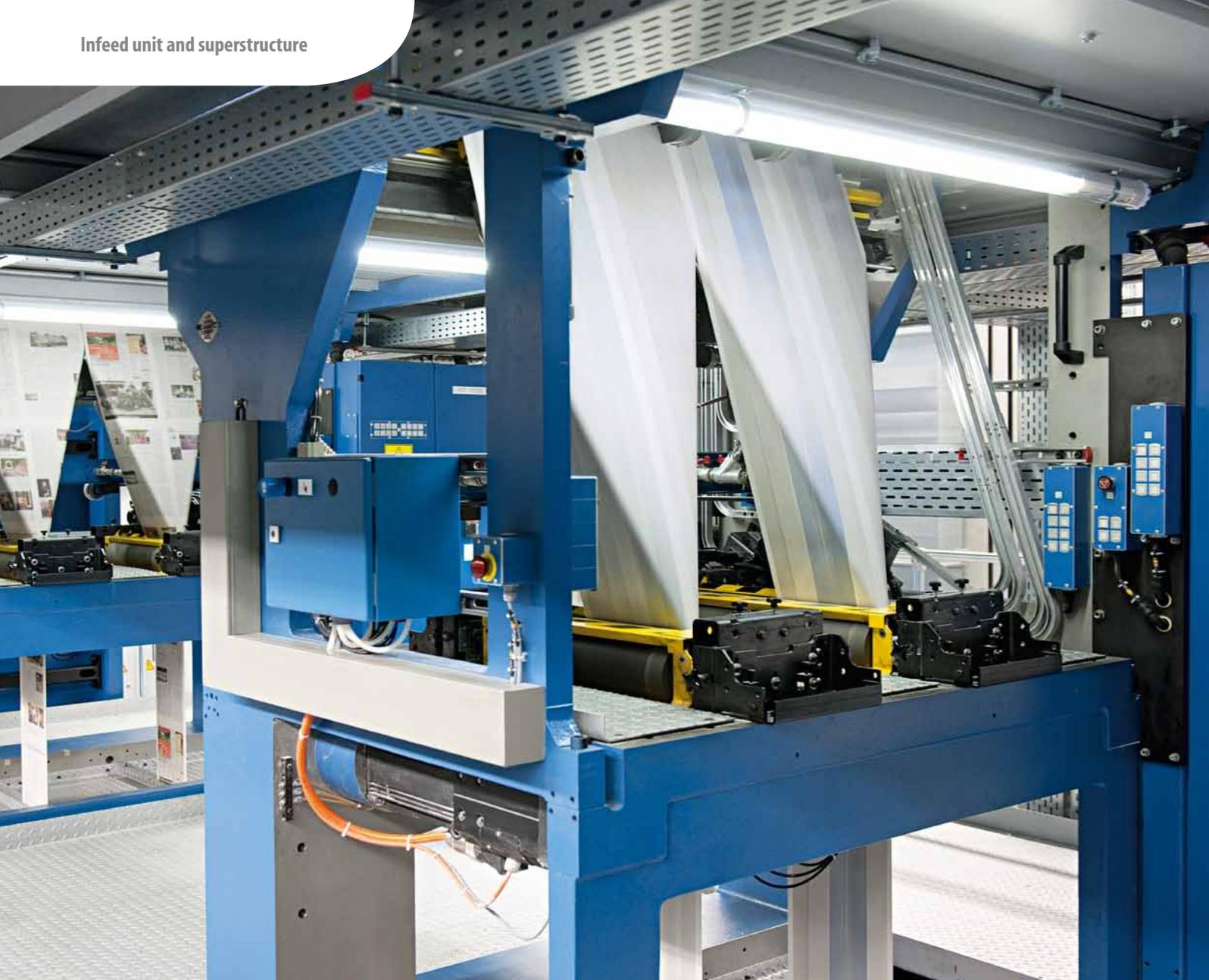


Alongside dedicated drive technology, KBA RollerTronic reduces energy consumption



Our KBA Patras reel-handling system supports a high level of flexibility in configuring processes





## Variety on demand

### Customised superstructures

A variety of layout options in the superstructure enhances production flexibility

A faster web infeed, disruption-free web travel and the correct web tension in all phases of production are essential for low waste levels, a superior print quality and efficient production. The KBA Commander CL's superstructure has an impressively compact and robust design.

Numerous configuration options support a high level of flexibility when structuring a newspaper. KBA also offers diverse concepts for processing different web widths.

#### **Automatic chain webbing-up system**

A chain pulls the web over a rail system from the reelstand to the turner bars or over the former. This guarantees a wide choice of web leads, the ability to feed in individual, multiple or all

webs simultaneously, fast job changes and ergonomic operation. In heatset production it is even possible to web up through the dryer.

#### **Controlled web tension**

The motorised infeed unit, which in the Commander CL is installed after the reelstand, is driven by an AC motor and can be remotely adjusted from the console. Low-mass idler rollers ensure a smooth web travel and minimise cut-off

misregister when accelerating or braking the press. Several photo cells monitor the web as it runs through the entire press. At every point in production the press operator is supported by a KBA Basko web-tension control system that ensures optimum web tension.

#### **A lot can be done at the console**

The ability to turn, shift and (as an option) insert individual ribbons promotes a high level of production flexibility. The

slitters before the draw rollers are easily accessible and, uniquely in newspaper printing, feature high-quality cutting heads with automatic depth adjustment. Because they cut cleanly, like a pair of scissors, they generate very little dust so there is no need for dust extraction prior to turning. The ribbons are guided to the former infeed via air-blown turner bars. The draw rollers before the turner bars, the ribbon gathering rollers and the RTF are remotely adjustable. The turner bars can be set from the console. Colour and/or cut-off register controls can be installed upon request.



**Multiple options in the folder superstructure**  
The standard constellation is two adjacent folders for 4/2 and 4/1 and three folders for 6/2 configurations. Balloon formers and other options are also possible. Alongside skip slitters and ribbon stitchers other optional extras include length gluing units, length/cross perforators (e.g. Zip'n'Buy for tear-out perforated sidebars) and a four-page centre spread capability.

An automatic chain web-up system on the drive side speeds up production preparation



# Made by pros for pros

## High-performance folders and reelstands

KBA is well-known for its high-quality folders and reelstands. They combine easy operation and maintenance with a high level of reliability, a long service life and above average safety standards.

### Precise folders and exact copy delivery

There is a choice of two cutting-edge folders, each of them engineered for a specific output and page count. Our KF 3 jaw folder has a maximum hourly output of 42,000 80-page broadsheet copies in straight production. Our heavy-duty KF 5 folder can handle up to 45,000 120-page copies per hour straight. All KBA folders are highly automated and fully embedded in the KBA DriveTronic shaftless drive system. If desired, the folders can be fitted with a quarterfold capability or a section stitcher for delivering stitched magazines in either straight or collect mode.

### New-generation reelstand

The Commander CL can be configured with a choice of two very reliable Pastomat reelstands. The classic Pastomat C is engineered for a maximum reel weight of 2.2 tonnes (4,850lbs). For heavier reel weights we have developed the optional, heavy-duty Pastomat CL (Classic Large).

Both models (*see separate brochure*) are driven and braked by robust AC servo motors via the reel core and have infinitely adjustable divided arms for handling reels of different widths to support pagination changes on the fly. They also have distributed operating

screens and are fully embedded in the press control system. Even at high web speeds, our Pastomat reelstands function reliably and safely and require minimum maintenance.



Our KBA Commander CL can be configured with reliable Pastomat (pictured left) reelstands

Our folders are engineered for precision folding and exact delivery





# KBA PressNet

## Efficiency through digital networking

When it comes to producing newspapers efficiently the digital networking of individual production sequences is increasingly important. Automating production scheduling and press preset, start-up and run-down can deliver substantial savings. KBA PressNet is a workflow package specially customised for the Commander CL.

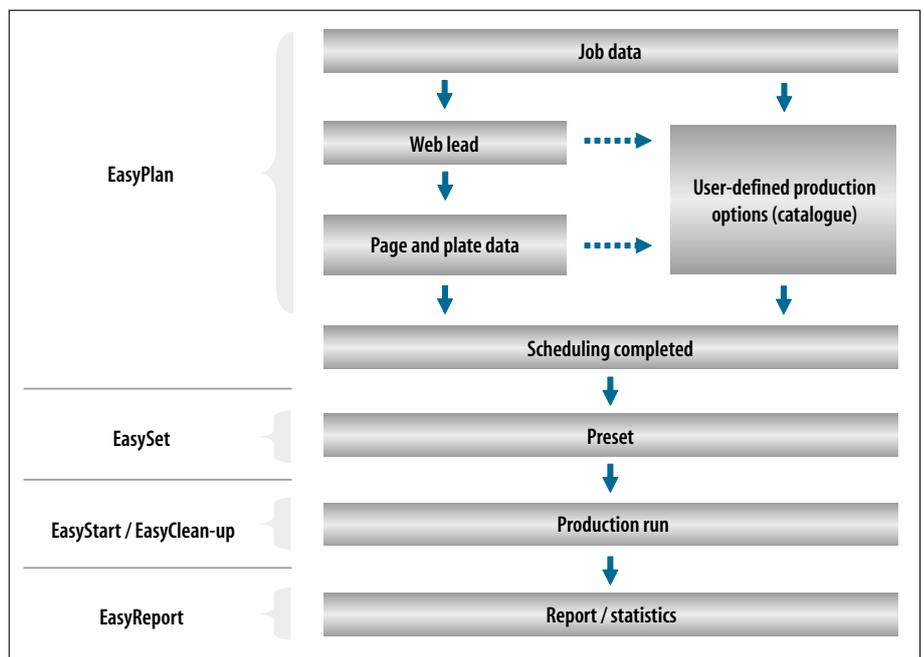
It helps maximise press performance by optimising production sequences. Process control and monitoring are much easier with optional automation tools.

With KBA PressNet, the entire workflow can be optimised, from production scheduling (EasyPlan) and press presetting (EasySet) to automated press start-up (EasyStart) and run-down (EasyClean-up), and even documentation (EasyReport).

### KBA EasyPlan

Good planning is crucial to sustainable success. This is also true in the newspaper industry. EasyPlan provides predefined production data which the operator can use for makeready. Individual input is also possible.

KBA PressNet: a few simple steps to the print run



**KBA EasySet**

In order to minimise edition changes and waste, and also guarantee production stability and quality, various press parameters must be preset ready for the next print run. KBA EasySet was developed to enable fast presetting of the complete press line from the console. The multi-stage presetting system stores the preset data for register, web tension and temperature control, along with process-specific acceleration curves. Once optimised, the values can be stored and downloaded for similar print runs.

**KBA EasyStart**

EasyStart allows the press to be run up to production speed at the touch of a button. The ultimate speed, and the length of time that any specific speed is

to be maintained during run-up to the ultimate speed, can be freely configured by the operator to match requirements.

**KBA EasyClean-up**

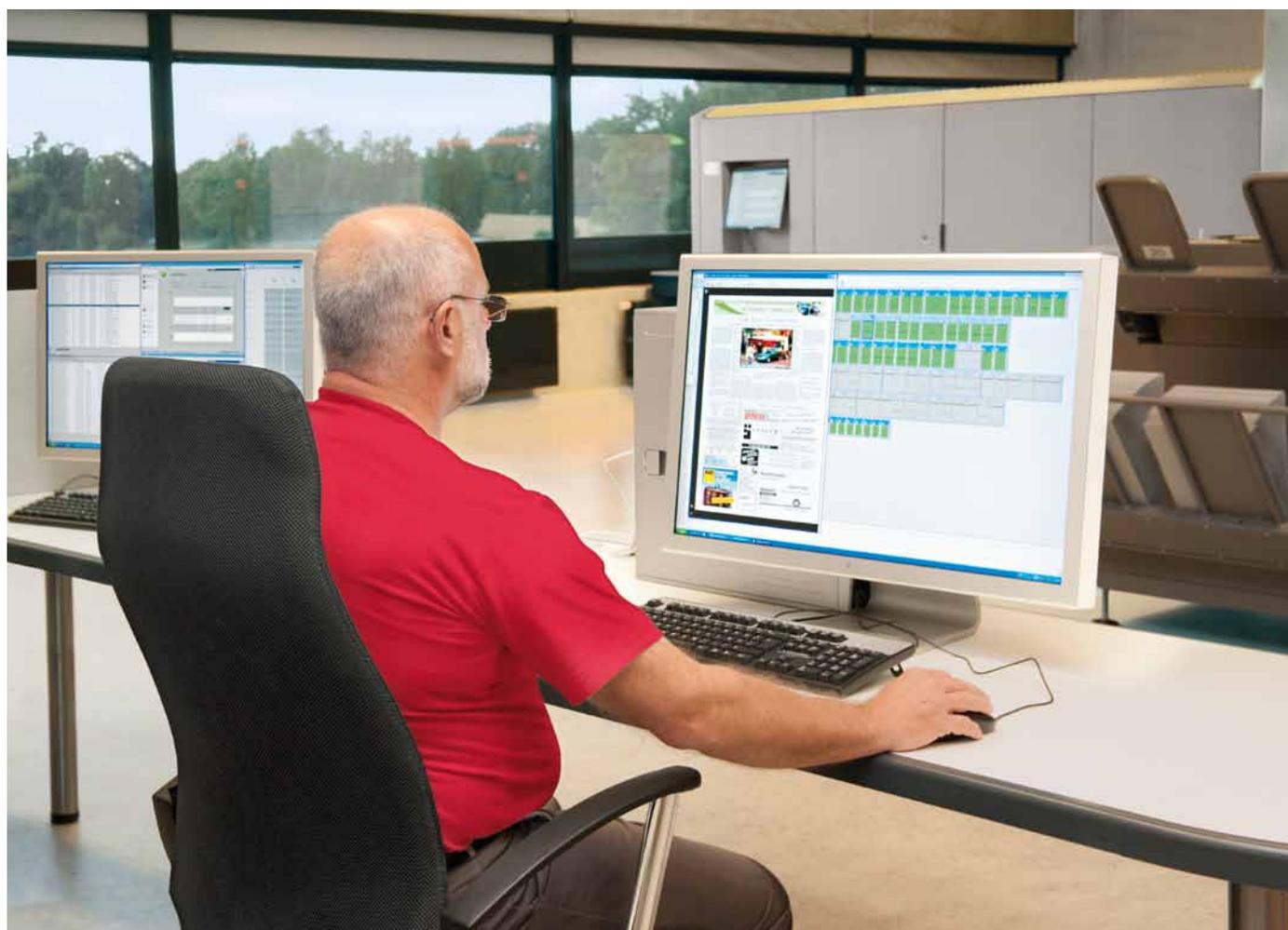
With a KBA press, pushbutton run-down is no longer a distant vision. EasyClean-up incorporates predefined sequences for automatically running the web free, cleaning the inking units and blankets, and removing all the plates. This gives the operator more time to prepare for the next job.

**KBA EasyReport**

Detecting, analysing and avoiding errors in future are key factors in enhancing productivity and cutting costs. KBA EasyReport is a valuable aid in documenting print production. All

messages are recorded in a long-term history log. This, plus the ability to export and filter messages, supports error analysis and minimisation. KBA EasyReport's message system also allows the complete documentation of all print jobs, with a detailed production log.

Production scheduling and press presetting are much easier with KBA PressNet automation tools





# KBA ErgoTronic

## Efficient and ergonomic

The Commander CL features cutting-edge console and control technology

Cutting-edge ErgoTronic console technology with concise data screens is a standard feature and can be expanded with our intelligent PressNet production management system to deliver enormous productivity and time gains.

KBA console technology is based on the advanced Ethernet standard and Sercos III real-time digital drive bus. The ErgoTronic console can be raised or lowered electrically for ease of use by operators of different heights and has a 19" touchscreen monitor for press commands.

### Press controls

The electronic processing stations for press controls and drive systems are located in the reelstand arms, printing units, folder and other subassemblies.

They are connected to each other and to the console by high-powered data bus systems and are based on cutting-edge MLC technology (motion logic controllers). The current operating status of the press, and any malfunctions which may occur, are displayed at the console, and safety features are activated if the need arises. The clear, logical system facilitates press operation and monitoring and affords greater flexibility when extending or modifying the press line.

### Copy- and press-based operation

Visualisation software supports both copy- and press-orientated operation via simple function- or aggregate-specific data screens.

# KBA Commander CL

## At a glance

Specifications	
Maximum production speed*:	90,000cph (4/1: 84,000cph)
Cut-off:	450 - 630mm (17.7 - 24.8in)
Maximum web width:	1,730mm (68.1in)
<b>Printing units:</b>	
<b>Standard equipment</b>	
<ul style="list-style-type: none"> <li>• KBA RollerTronic automatic roller bearings</li> <li>• Inking unit with three forme rollers (4/1 with two)</li> <li>• New-generation triple-roller spray dampener with nozzle-cleaning function</li> <li>• KBA DriveTronic dedicated drives</li> <li>• Water-cooled main motors</li> <li>• Two-bar clamp for blanket cylinders</li> <li>• Lock-up slot on plate cylinders</li> <li>• Optimised cylinder bearings</li> <li>• Mechanical bustle wheel in printing tower</li> </ul>	
<b>Optional equipment:</b>	
<ul style="list-style-type: none"> <li>• Plate cylinder preconfigured for retrofitting pneumatic plate lock-up necessary for automatic or semi-automatic systems</li> <li>• Semi-automatic plate change</li> <li>• Automatic plate change</li> <li>• Spindle tensioning for blanket cylinder (heatset)</li> <li>• CleanTronic blanket-washing unit</li> <li>• Shutter in spray dampening unit for different web widths</li> <li>• Automatic roller-cleaning system</li> <li>• Oil cooling</li> <li>• Inking-unit temperature control (two distributor rollers)</li> <li>• Pneumatic bustle wheel</li> <li>• Automatic inking and dampening unit coupling</li> </ul>	
<b>Folder:</b>	<ul style="list-style-type: none"> <li>• KF 3 jaw folder (2:3:3)</li> <li>• KF 5 jaw folder (2:5:5)</li> </ul>
<b>Reelstand:</b>	<ul style="list-style-type: none"> <li>• KBA Pastomat C</li> <li>• KBA Pastomat CL (optional)</li> </ul>
<b>Paper logistics: (optional)</b>	<ul style="list-style-type: none"> <li>• KBA Patras M</li> <li>• KBA Patras A</li> </ul>
<b>Automation:</b>	<ul style="list-style-type: none"> <li>• KBA ErgoTronic master level</li> <li>• KBA PressNet (optional)</li> </ul>
<b>Additional option:</b>	<ul style="list-style-type: none"> <li>• Semi-commercial package with thermal dryer</li> </ul>
	*depending on format and folder Other formats upon request



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from Koenig & Bauer AG**

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