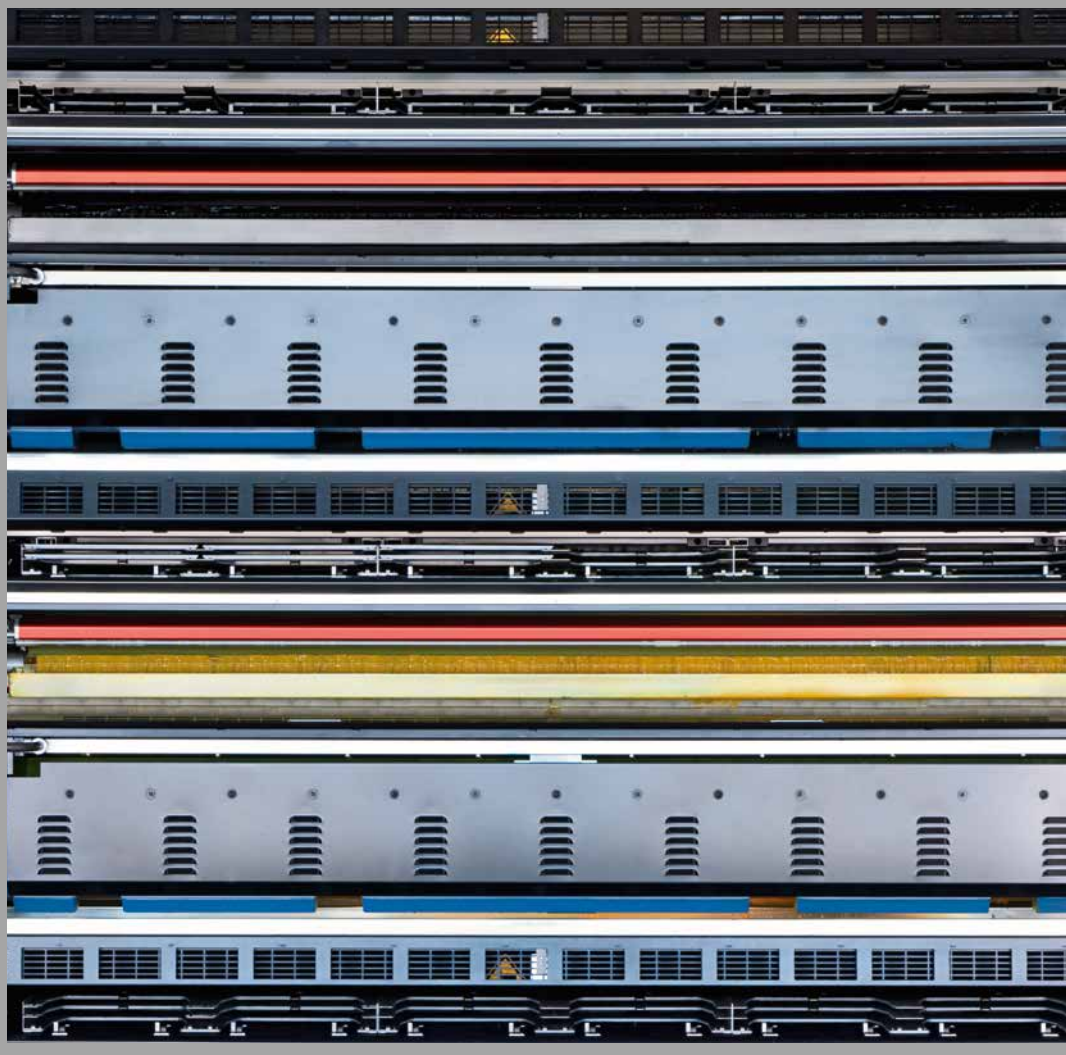
KOENIG & BAUER

Commander CT
The compact wet offset press for newspapers and semi-commercials



we’re on it.

In a shifting media landscape The future is compact

Koenig & Bauer's range of compact presses includes the Commander CT, a wet offset press that delivers a raft of benefits. Standing just 4.5m (14ft 9in) high, the highly automated four-high Commander CT represents a major advance in ergonomics, cost efficiency, flexibility and quality, and has already won over many renowned newspaper and semi-commercial publishers who value the ability to respond with agility to evolving market demands. Our Commander CT sets benchmarks in the high-end segment of the newspaper market.

Commander CT – the innovative compact web press from Koenig & Bauer delivers impressive user-friendliness and pioneering technology

Commander CT: major attributes

- Four-high tower max. 4.5m (14ft 9in)
- Eight-high tower possible
- StepIn system for easy operation and maintenance
- NipTronic – bearer technology for the optimal setting of printing pressure
- No bearer rings, cams or multi-ring bearings prone to wear and tear
- No oil in the printing units
- Automatic roller locks
- Proven PlateTronic automatic plate changers
- DriveTronic dedicated drive technology for each cylinder and inking unit
- Inking unit with three forme rollers
- Minimum fan-out thanks to reduced press height
- FanoTronic automatic fan-out compensation (option) especially for 6/2
- CleanTronic automatic blanket washing
- Dryer for semi-commercials (option)
- Ultra-short makeready
- Minimum maintenance
- ErgoTronic console technology
- Fast presetting using PressNet (option)

Proven automation

The Commander CT is the only newspaper press in the global marketplace to feature StepIn towers that split down the centre at the touch of a button for easy access and maintenance. Convenient lifts on both sides and in the interior of the towers reduce walking distances. Other winning features are our fast yet highly reliable PlateTronic automatic plate changers, NipTronic cylinder bearings for adjustment of the printing pressure, and RollerTronic automatic roller locks, which have proven their efficiency a thousand times over and in terms of functionality and precision are far superior to other automatic locks.

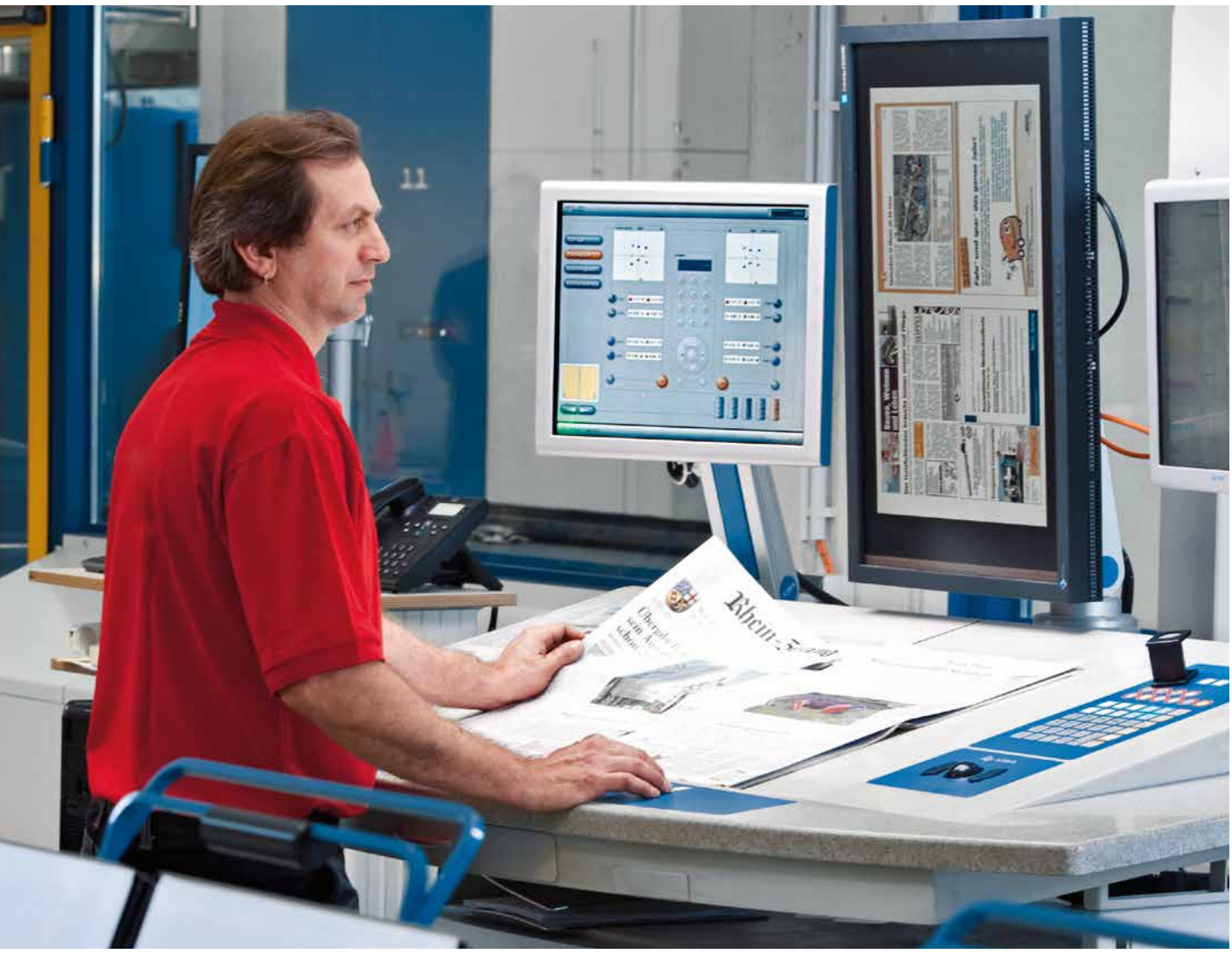
The Commander CT has optimised spray dampeners and film inking units (with three forme rollers) and is available as a double-width (4/2) or triple-width (6/2) version engineered for full colour on both sides of the web. The modern compact web press is also available with PressNet, a bespoke workflow package that ensures maximum press performance.

For newspaper publishers where space is at a premium, or where there is a need to extend conventional press lines without interrupting running production, its extremely compact design even allows the configuration of eight-high towers with an overall press height of almost 10m (32ft 8in). This space saving configuration is only possible with the Koenig & Bauer Commander CT and the Cortina. As well as various large-scale plants abroad, mainly newspaper publishers in Germany and Europe have opted for double-width or triple-width versions of our Commander CT web press.

At several sites of the one of the largest print media groups in Canada, Transcontinental Inc., several Commander CT press lines equipped with hot-air dryers are producing not only newspapers in coldset, but also supplements in heatset – or even hybrid products. If you are looking for highly innovative technology with a raft of options, our Commander CT is the ideal choice.

Intelligent automation
For efficient production

The high net output and production flexibility with short makeready times, reduced personnel requirements for operation and maintenance, minimal waste with optimum quality in four-colour printing and integration into a digital workflow place special demands on the automation concept of cutting-edge web presses.



The latest operator-oriented ErgoTronic control console technology sets benchmarks. Its interfaces to the master systems for press preset, process control, production monitoring using PressNet and dedicated software are clearly defined and individually adaptable.

Product and press-based operation
The electronic processing stations for press controls and drive systems are connected to each other and to the console by high-powered data bus systems and are based on cutting-edge MLC technology.

The current operating status of the press, and any malfunctions which may occur, are displayed immediately at the console and remedial action initiated automatically if the need arises.

Even the basic version includes a valuable operator aid in the form of a copy-based system. An optional press-based version allows the relevant printing couple or subassembly to be selected directly.

Production management in all forms
The console level can be expanded with the intelligent production management system PressNet. This system can deliver substantial savings by automating print processes.

RollerTronic: proven a thousand times over
The remotely adjustable RollerTronic roller locks set new benchmarks in the market. Throw-on pressure is set according to predefined reference values and the rollers then locked mechanically. This results in high precision and consistent print quality, less roller wear and lower energy consumption and maintenance costs.

DriveTronic, NipTronic, PlateTronic, FanoTronic ...
With its consistently applied dedicated plate cylinder drive technology DriveTronic and automatic adjustment of the printing pressure via NipTronic, the Commander CT boasts an extensive module-based automation system.

The intelligent PlateTronic plate-changing system slashes edition changes by allowing the feed magazines for the plates to be loaded and emptied while the press is up and running. It is also available for the Cortina

Other options, such as the FanoTronic automatic fan-out compensation, available for triple-width and large format presses, and colour register control, offer printers further tools with which to deliver a uniform print quality and minimise waste.

Another key feature of the Commander CT designed to enhance cost efficiency for frequent short runs or local editions is our PlateTronic plate-changing system, which can change individual plates or plates in multiple towers in around three minutes. Thanks to dedicated cylinder drives, with CleanTronic the blankets can also be washed automatically while the plates are being changed. When it comes to intelligent automation, the technology we offer is way ahead of the field and our practical experience is unparalleled in the industry.

Left: The Commander CT is controlled via cutting-edge console technology

PressNet
Efficiency through digital networking

The digital networking and integration of individual production sequences plays an increasingly key role in producing newspapers cost-effectively. It can deliver substantial savings by automating production scheduling, press preset and start-up, edition changes and press run-down. PressNet is a bespoke workflow package that maximises the performance of the Commander CT.

Alongside production scheduling with EasyPlan and press presetting with EasySet, the PressNet suite includes EasyStart and Easy-Clean-up for automated press start-up and run-down, and EasyReport documentation software.

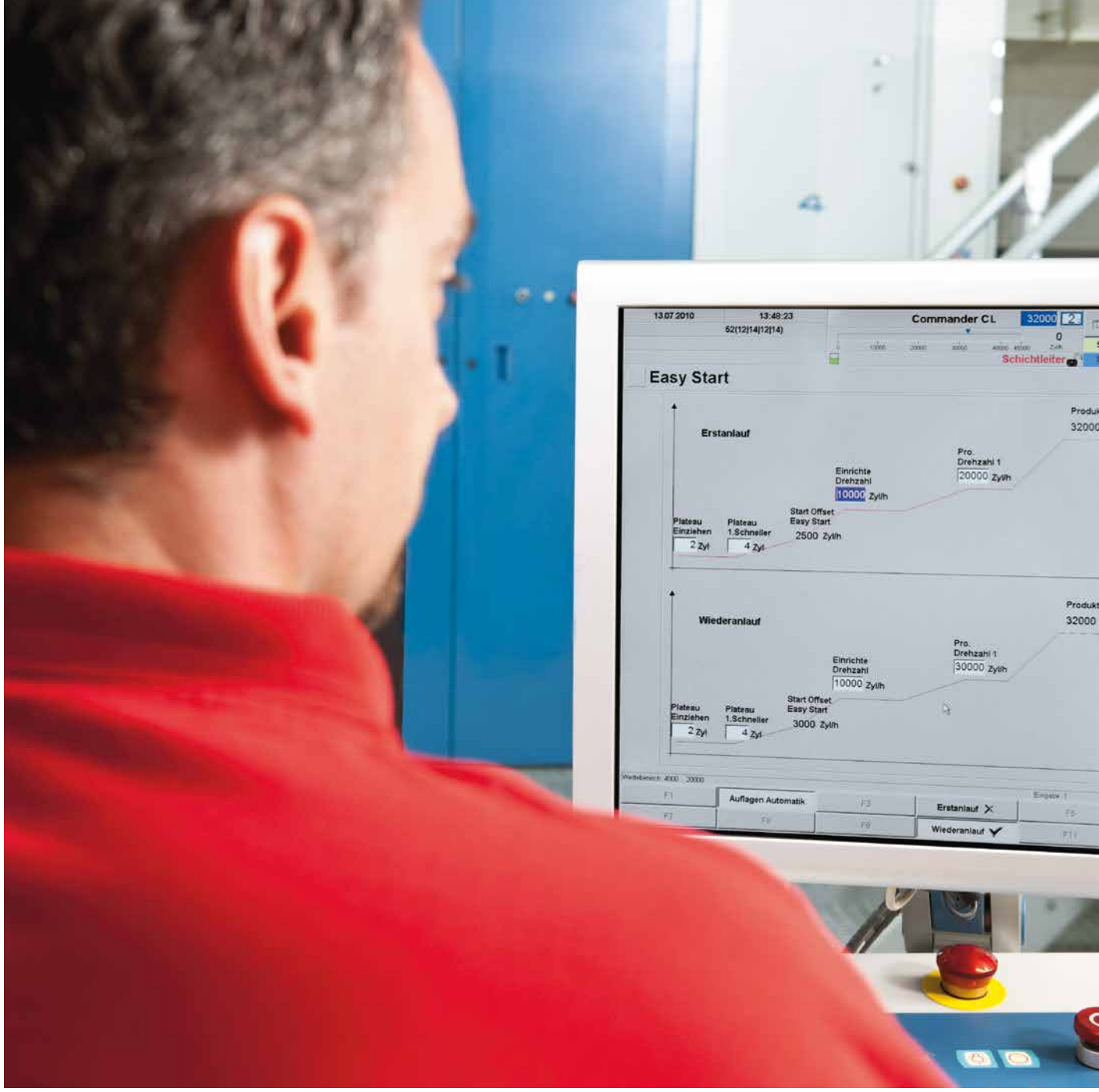
EasyPlan
Good planning is key to sustainable success. This also applies when producing newspapers with EasyPlan. EasyPlan provides predefined production data which the operator can use when presetting the press, or which can be keyed in individually.

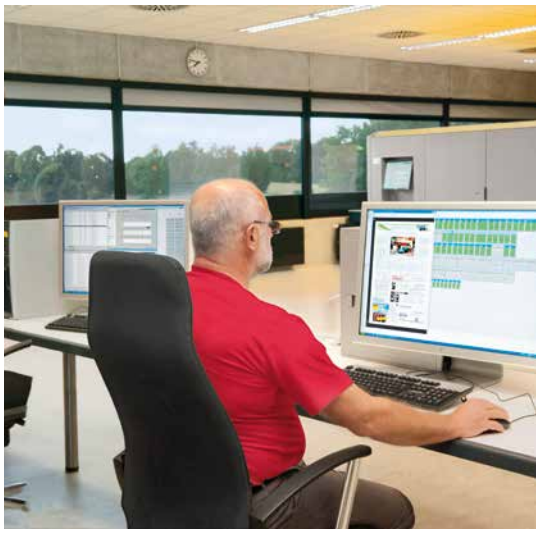
EasySet
In order to minimise edition changes and waste, and also guarantee production stability and quality, various press parameters must be preset ready for the next print run. EasySet was developed to enable fast presetting of the overall press line from the console. The multi-stage press preset system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

EasyStart
EasyStart allows the press to be automatically 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.

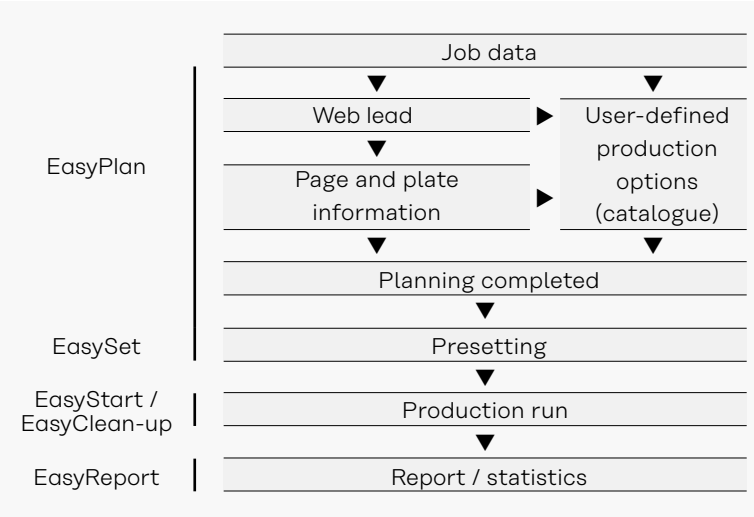
EasyClean-up
Automatic press run-down at the push of a button has also long since become a reality. EasyClean-up incorporates predefined sequences for automatically running the web free, cleaning the inking units and blankets, and removing all the plates. This tool gives the operator more time to prepare for the next job.

EasyReport
Detecting, analysing and remedying errors – and learning from them – are also key factors in enhancing productivity and cutting costs. EasyReport is a valuable aid in documenting print production. A long term history of all messages, plus the ability to export and filter them, supports error analysis and minimisation. EasyReport's message system also allows the complete documentation of all print jobs, with detailed production logs for each one.

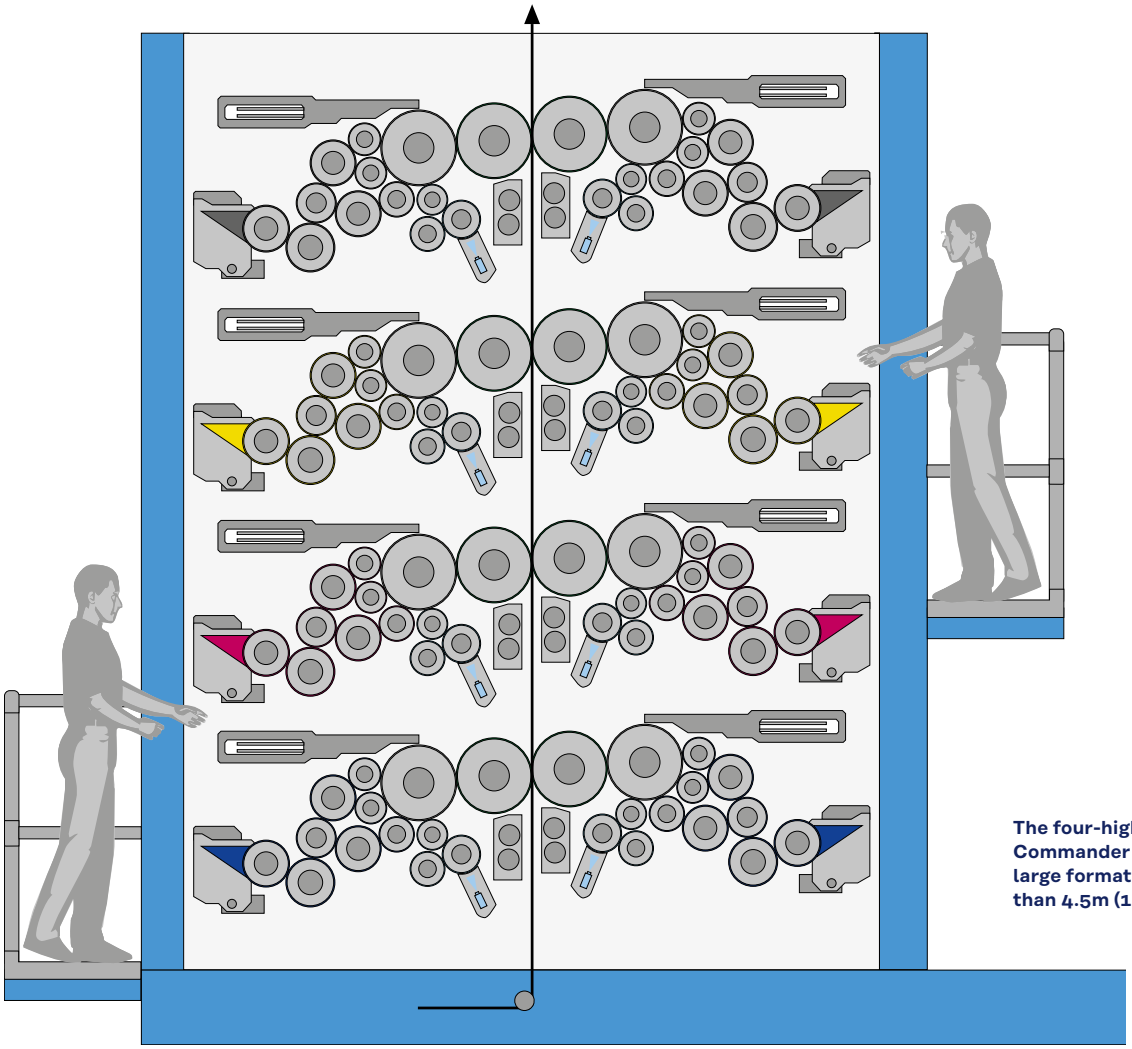




PressNet: in a few simple steps to the print run



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



The four-high version of the Commander CT – even for large formats – is no higher than 4.5m (14ft 9in)

Compact design reduces fan-out
Three forme rollers for a brilliant image

The compact press height of just 4.5m (14ft 9in) shortens the distances between the individual printing couples reducing fan-out in four-colour printing by 50% compared to conventional four-high tower press lines and achieving excellent colour registration. For wider web widths, such as 6/2 presses, we offer optional automatic fan-out compensation via FanoTronic.

Quick-response inking units

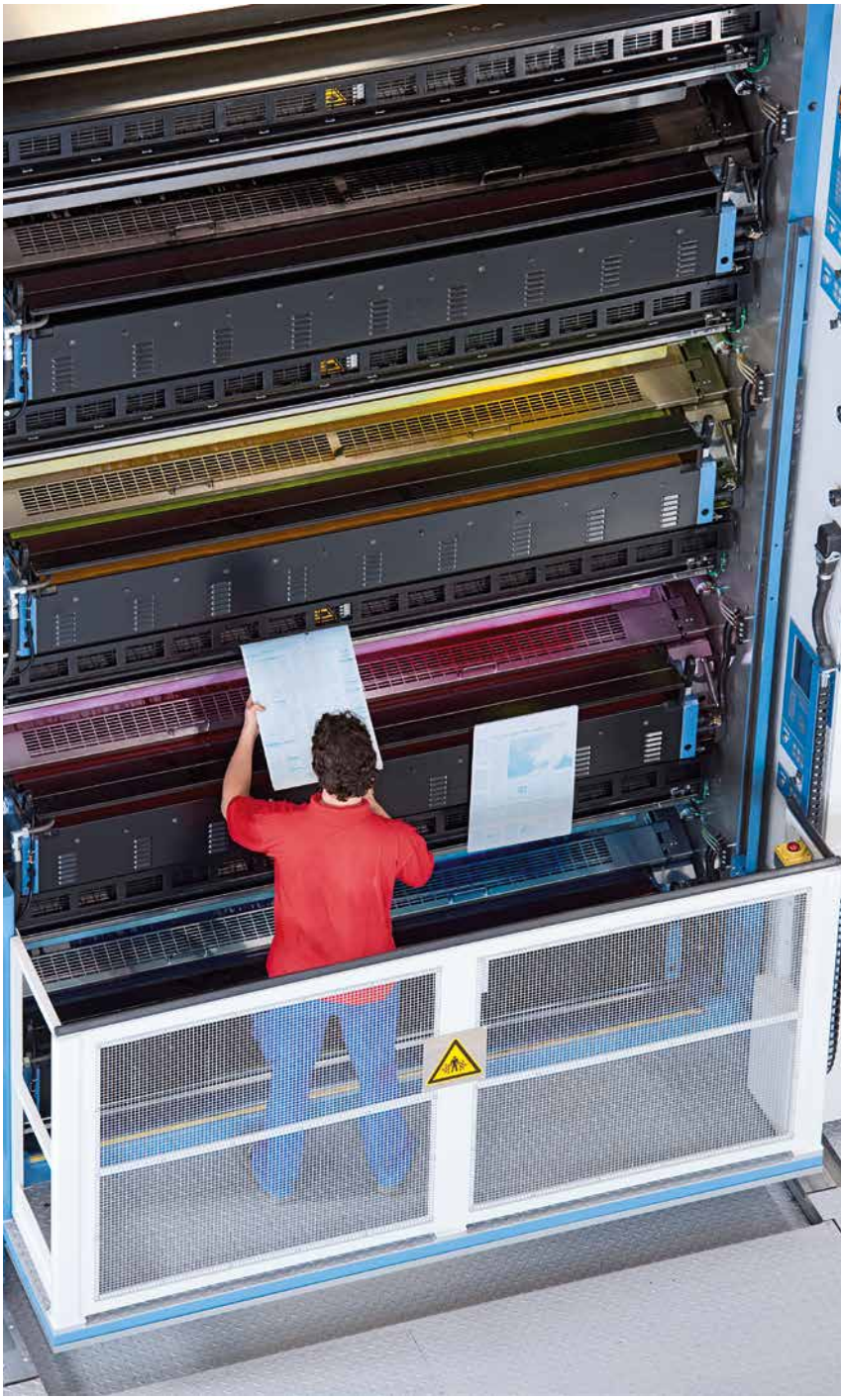
The inking units on the Commander CT each have a dedicated drive, undershot ink ducts, three forme rollers, a new type of film roller and an optimised roller geometry for newspaper applications. This reduces dot gain, enhances image quality on solids and image stability where ink take-up is low. The roller constellation with two direct ink trains responds swiftly to changes in inking commands and generates far less ink mist. Automatic ink supply is also a standard feature today.

The duct roller and ink knife can be accessed easily by throwing the knife holder on and off. The rollers are cleaned by a doctor blade system. Further options include an automatic washing system for the inking unit, an ink-temperature control system (recommended for long production runs), and a swivelling roller that enables simultaneous washing of the dampening unit.

The ability to preset and pre-ink the inking units automatically with PressNet reduces start-up waste, which on the Commander CT is already lower than on conventional tower presses. An optional state-of-the-art RIP interface is also available for transferring pre-press data for presetting the inking and dampening units.

Optimised spray dampeners

The optimised triple-roller spray dampeners are installed in the pre-moistening position as standard. The fount solution is transferred to the chrome roller via a cylinder-wide spray bar with eight nozzles (twelve on the 6/2). Metering is regulated by controlling the impulses to each individual nozzle. The outer nozzles can be regulated separately to eliminate marginal toning. The fount solution is transferred contact-free, virtually eliminating the risk of contamination. Each press section has a dedicated water-preparation unit. As an option, the water temperature, pH value and conductivity can be displayed at the console.



The optimised geometry of the inking units on the Commander CT reduces response time while enhancing image quality on solids and image stability where ink take-up is low

Manual or automatic Customised reel logistics

Streamlining the paper flow is a key factor in enhancing production efficiency. With state-of-the-art high-performance reelstands and the Patras paper roll transport system, we offer integrated, tailor-made paper logistics for the Commander CT.

Patras reel-logistics system
A flexible, high-performance system, Patras is module-based to support a wide range of versions from manual, semiautomatic or automatic reel loading to a complete reel logistics system, enabling it to be customised to suit individual production scenarios and architecture. At the highest level of automation the new reels are unloaded from the delivery lorries, stored, prepared for splicing and loaded onto the reelstands, and the used cores removed, with virtually no manual intervention. With Patras A, reel logistics from reception to stub disposal are embedded in a networked production flow, bringing substantial savings in time, labour and waste, and thus in costs. Koenig & Bauer plans and develops customised reel logistics systems to suit individual requirements.

The high-performance Pastomat CL 60 reelstand for reel diameters of up to 1,524mm (60in)

Right: Fully automated reel logistics from splice preparation to the AGV-driven reel store and the reelstand

Reel stripping station
This is an operator aid for removing the wrapping quickly and with a minimum of waste. The weight of the reel with wrapping, after stripping and splice preparation can be logged individually for internal evaluation purposes.

New-generation reelstands
The Commander CT is available with two versions of the highly reliable Pastomat reelstand. The version of the Pastomat reelstand for 4/2 web widths is designed for web speeds of up to 15.2mps and can accommodate reels weighing up to 2.2 tonnes (4,850lbs) and a maximum width of 1,760mm (69.25in). For wider web presses Koenig & Bauer offers a heavy-duty Pastomat high-performance reelstand. It is designed for web speeds of up to 17.2mps, reel diameters of up to 1,524mm (60in) and can process rolls weighing up to 3.3t (7.27lbs).

Both models are driven and braked by robust AC servo motors via the reel core and have infinitely adjustable divided arms for simultaneously handling reels of different widths, enabling them to support pagination changes on the fly. They also have distributed operating screens and are fully embedded in the press control system.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Fast and accurate
Productivity and diversity

The superstructure on the Commander CT is as compact as the press itself, yet easily accessible. The CT can, of course, be configured with the standard Commander superstructure whose performance has been well proven on countless press lines. But whichever you choose, our superstructures are engineered for productivity, diversity and high-speed edition changes, thanks to ergonomic turner bars, short web paths and a straightforward production flow for multiple web widths – not to mention our proven high-performance folders.

Superstructure

The ergonomically positioned slitters on the draw rollers in the turning tower enable the web to be slit into half-width ribbons or into quarter- and half-width ribbons. The ribbons are monitored by photoelectric sensors as they are guided to the former infeed via easy-access turner bars.

As with all Commanders, extras include bay-window rollers, insertion decks and double decks. The double deck (with the option of two pairs of turner bars instead of four) enables the web to be guided to the left or the right over the former without repositioning the turner bars, which cuts changeover times. The page count for the individual signatures can be adjusted quickly and easily to changes in specifications. Colour and/or cut-off register controls can also be installed upon request.

Folder superstructure

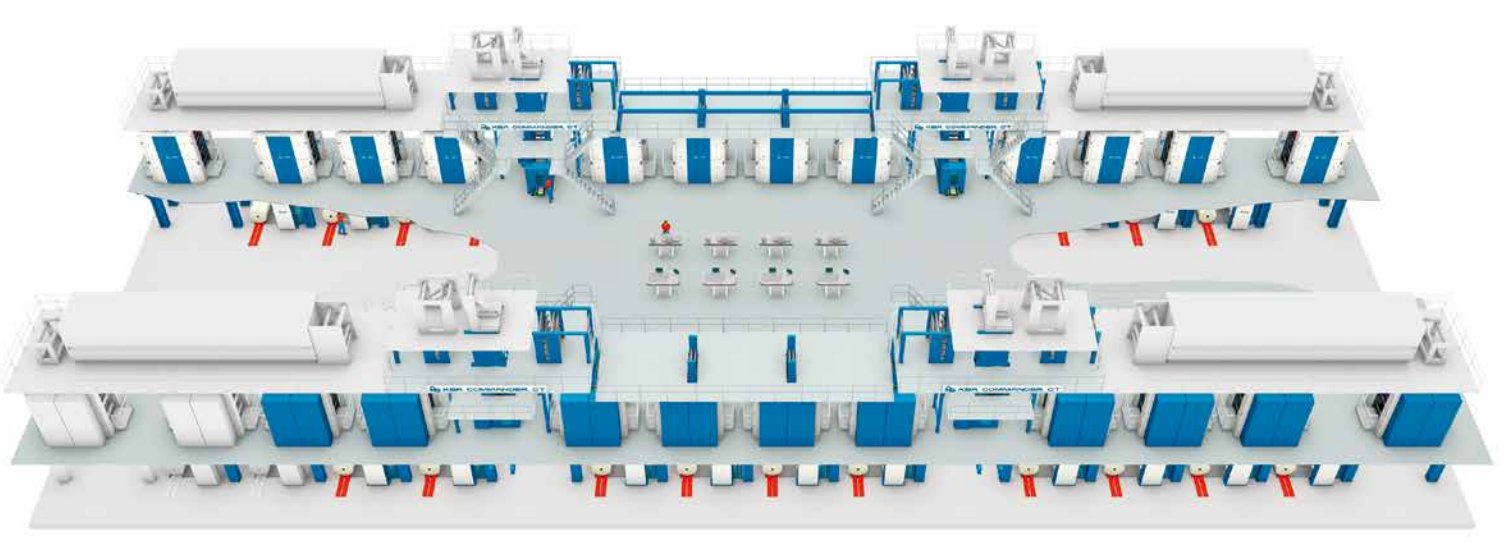
The standard constellation is two adjacent formers, but presses can also be configured with formers positioned one above the other (e.g. four formers in a balloon arrangement). AC drives for the draw and transfer rollers enable web tension to be controlled with absolute precision. Other optional extras include a length gluing unit, a variable perforator (Zip'n'Buy), a skip slitter, a ribbon stitcher and a four-page centre spread capability.

Proven folders

There is a choice of three cutting-edge folders, each of them engineered for a specific output and page count. The economical KF 3 jaw folder can handle up to 80 broadsheet pages and has a maximum output of 45,000 cyl. rev/h (90,000 copies/hour in straight production). Our heavy-duty KF 5 folder can process four to 120 pages at up to 55,000 cyl. rev/h (110,000 copies per hour straight). Our high-end folder, the KF 7, is engineered for 144-page broadsheet pages.

All our folders are highly automated and fully embedded in the shaftless drive and press presetting systems. The diameter of the folding cylinder can be infinitely adjusted to copy thickness, either at the folder itself or from the console. Over- and underfold adjustment is also integrated in the presetting and control systems. Conversion between collect and straight mode is actuated by push-button at the folder or via the presetting controls at the console. If desired, the folders can be fitted with a single or dual quarterfold capability and/or a section stitcher for delivering stitched magazines in either production mode.

Our high-performance KF 5 is a popular choice of folder for the Commander CT



The big 6/2 Commander CT press line at US media house New York Daily News

Commander CT
The space saver

Thanks to its compact design and modular concept (just like the Cortina), the Commander CT makes much more economical use of space than the conventional four-high or satellite presses currently on the market.

Both our compact press models are available as floor-mounted versions with adjacent reel-stands for standard industrial buildings with low roof clearance, but they can also be configured with under-floor reelstands. A unique feature of the conventional wet offset Commander CT is that it can be stacked to form eight-high towers, e.g. for press extensions or new installations in existing high press halls where there are restrictions on press length.

The Commander CT can therefore eliminate the need to relocate to greenfield sites by enabling capacity to be expanded at existing premises.

And with energy prices heading skywards, substantial bottom-line benefits can be gained from limiting the size of the production hall and thus energy consumption for climate control.

On top of this there are ergonomic benefits to be gained, since the press crew can access the individual printing couples via platform lifts on either side of the tower, so they no longer have to climb stairs. The compact design thus creates a more attractive workplace that enhances staff motivation and reduces physical strain.

Commander CT
At a glance

Commander CT 4/2

Max. output[1]:	55,000 cyl. rev/h
Web width[2]:	1,200 - 1,680mm / 47.24 - 66.14in
Cylinder circumference[2]:	900 - 1,197mm / 35.43 - 47.1in

Commander CT 6/2

Max. output[1]:	50,000 cyl. rev/h
Max. web width[2]:	2,100mm / 82.67in
Cylinder circumference[2]):	900 - 1,197mm / 35.43 - 47.1in

Compact design

- Four-high tower just 4.5m (14ft 9in) high
- Eight-high tower approx. 10m (32ft 10in) high
- Approx. 50% less fan-out due to reduced press height

Printing units

- Plate and blanket cylinders in one line
- DriveTronic dedicated drives for cylinders and inking units
- RollerTronic remote-controlled roller locks
- PlateTronic automatic plate change (option)
- CleanTronic integrated blanket washing
- FanoTronic fan-out compensation (option)

Inking/dampening units

- Optimised film inking units with three forme rollers
- Undershot ink ducts
- Throw-on roller inking/dampening unit
- Triple-roller spray dampening unit

Pastomat C / CL reelstand

Maximum reel diameter:	1,270mm / 50in
Maximum reel weight:	2.2t / 4,850lbs

Pastomat CL 60 reelstand

Maximum reel diameter:	1,524mm / 60in
Maximum reel weight:	3.3t / 7.27lbs

KF 3 folder
2:3:3 cylinder ratio
Maximum capacity: 80 broadsheet pages collect

KF 5 folder
2:5:5 cylinder ratio
Maximum capacity: 120 broadsheet pages collect

KF 7 folder
2:7:7 cylinder ratio
Maximum capacity: 144 broadsheet pages collect

[1] Depending on format and folder
[2] More available on request

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