KBA Pastoline

High-tech reelstand for newspaper and commercial presses

KBA
Koenig & Bauer AG

Efficient Technology for Pros

Reelstand with raft of new features

Developed specifically for single-width newspaper, commercial and semi-commercial presses, our new Pastoline reelstand demonstrates its capabilities in over 200 press installations.

It combines proven functions from our high-end Pastomat reelstands with innovative features devised by our experienced team of paper logistics experts. Customer-driven innovations and a user-friendly design place this exceptionally cost-effective reelstand at the top of its performance class.

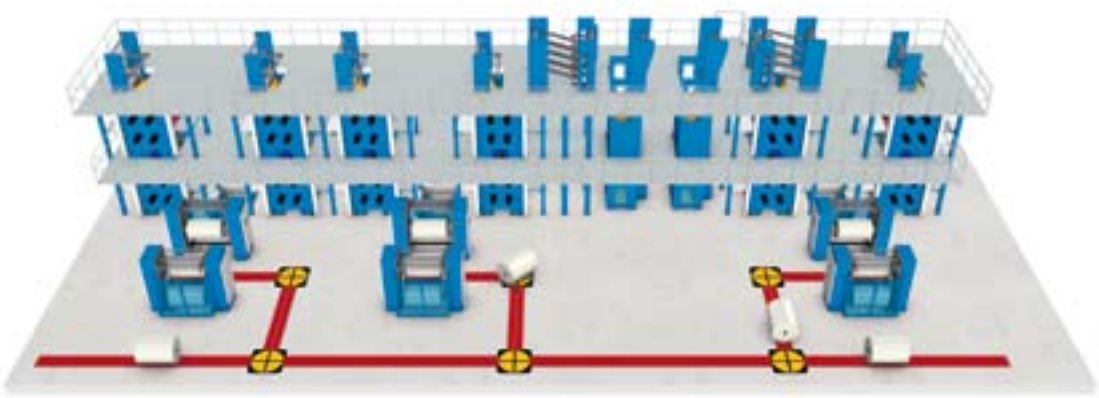
AC drives, easy handling
Fully embedded in the press operating, control and drive system, our new-generation Pastoline reelstand is exceptionally easy to handle. It features a split arm design with beltless arm drive via AC motors and electric braking via the reel core.

Flexibility and fast makeready
One of the biggest advantages of the Pastoline reelstand for single-width presses is that even the standard version has infinitely adjustable, electrically controlled arms which can accept reels of different widths. The web width can be set in increments of 1mm (0.04in), dramatically reducing the time required for format changes.

Reliability, durability, low waste and a complete safety package: these were the watchwords in developing the Pastoline. All the safety features comply with applicable industry norms and regulations.

Minimum maintenance, reduced energy costs
The electric braking system is abrasion-free, which means virtually no brake dust and no need to replace the linings. The positions of the dancer roller and the reelstand arms are detected by maintenance- and contact-free sensors. Braking energy is stored and utilised for unwinding, substantially reducing energy consumption throughout the production run. The switch cabinets for the controls are water-cooled, which improves the energy balance still further. Deploying the same electronic and pneumatic components and graphical user interfaces as for the press simplifies maintenance and operation. A diagnostics and data system supports the recognition and location of any errors that may arise.

Customised configurations
For maximum flexibility our Pastoline reelstand can be arranged in rows, as gates or at 90° to the press line.



A reelstand positioned at a 90° angle to the press line and embedded in a Patras M manual logistics system

Less Waste

How it works

The Pastoline reelstand is designed for single-width presses with a maximum web speed of 13mps (2,560fpm). Its reliably accurate splicing during automatic reel changes ensures an uninterrupted supply of paper to the press during impression.

Central drive and brake
The reels are driven and braked via AC servo motors fitted in the reelstand arms, ensuring a precise regulation of web tension and exact synchronisation during splicing. In the event of an emergency stop, two electrically actuated auxiliary brakes distribute the load evenly on both the chucks.

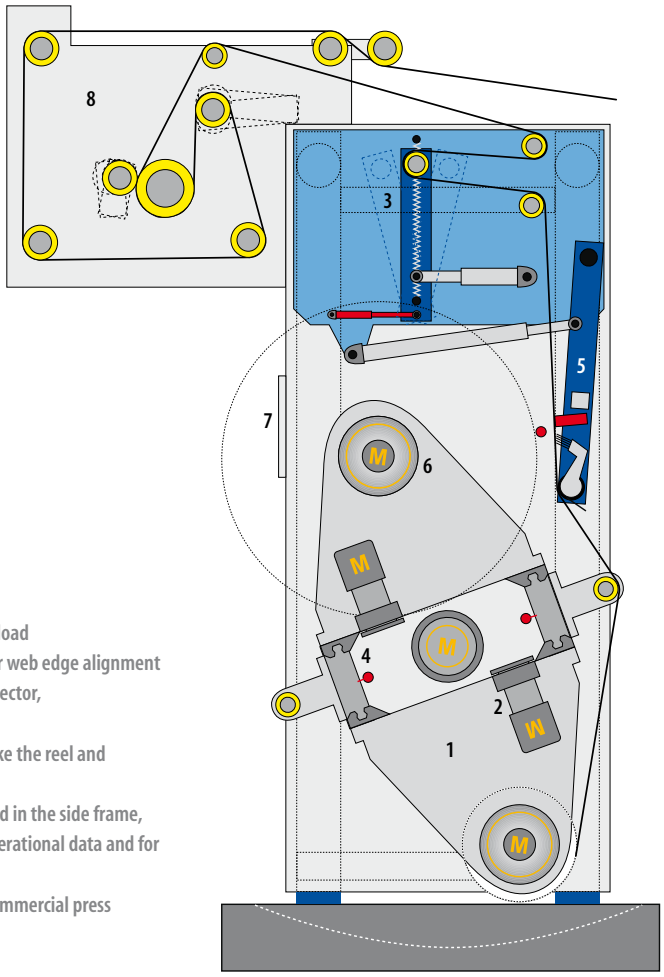
Electrical arm adjustment
The split arms can accept reels up to 1,000mm (39.37in) wide, 1,270mm (50in) in diameter and weighing 1.6t (3,527lbs). Each reel can be shifted ±20mm (0.75in) to the left or right while being unwound. Full- and half-width reels can be pre-positioned.

Reliable flying reel change
An automatic reel change is initiated when the expiring reel reaches a prespecified diameter based on paper thickness and web speed. Production can continue at full speed. An automatic splice is also possible during press run-up and slow-down. The splicing sequence can even be actuated manually at any reel diameter, for example if a fault is detected. A partially used reel – a frequent product of edition changes – can also be spliced on automatically, provided it is not less than 450mm (17.75in) in diameter. After the splice the reel tail is automatically rewound, making it easier for the operator to remove the core.

The reels are braked and driven by low-maintenance AC drives located in the reelstand arms

A horizontal splicing strip, reliably precise splice and short reel tail make for easier operation and support a fast reel change with a minimum of waste.

Integrated infeed unit
The new infeed unit is integrated in the reelstand and incorporates a frame for guiding the web to the first printing unit. Advanced technology ensures optimum control of web tension.



Key features
1. Split arm design
2. AC drives for arm rotation
3. Dancer roller with pneumatic load
4. Arms separately adjustable for web edge alignment
5. Pivoting frame with splice detector, pasting brush and severer
6. AC drive to accelerate and brake the reel and adjust web tension
7. Control components integrated in the side frame, with display for visualising operational data and for manual operation
8. Integrated infeed unit for a commercial press

Easy Handling

Automation

A data display in the side frame furnishes the press crew with current operational data and parameter inputs. The operating panel can be used to key in reelstand commands. A remote pushbutton station facilitates operation during reel changes.

The Pastoline is embedded in the press control system to support a high level of automation and faster, more accurate operator intervention.

Convenient operation
With our new Pastoline the reelstand arms can be adjusted and locked, and the reels loaded, tool-free via membrane keys. The reel is loaded onto chucks, so there is no need for clamp shafts. The user-friendly control panel facilitates manual reel changes, setting tasks, maintenance and servicing etc.

An easy-to-read display for status reports, current operational data and for keying in press parameters is located in the switch cabinet.

The switch cabinet also contains the reelstand controls plus systems for monitoring and measuring pre-infeed web tension.

All essential operating states relating to the reelstand are displayed on data screens at the console, where all the automated functions can be actuated.

Easy-to-read data display and control panel in the switch cabinet

Customised Features

Single source

To support diverse production needs we offer a choice of optional features which can be included at the planning stage to create a customised workflow.

Special heatset kit
Our Pastoline reelstand can be engineered for reels weighing up to 1.6t (3,527lbs) to support the production of semi-commercials. It can also be fitted with an optional pre-splice web aligner for the new reel.

Single-button operation
Two other options for commercial presses, KBA EasyGo and EasyStop, actuate automatic press start-up and run-down.

Automatic chain web-up system
On the standard version there is a webbing-up belt on the drive side. A flexible chain web-up system with web-tension control and a load-compensated dancer roller is available as an option. It has a maximum webbing-up speed of 40m or 131ft per minute.

Diagnostics and data system
The KBA Pastoline can be integrated in a diagnostics and reel-data system, and linked to our service department via a service PC and 24-hour hotline that enables service personnel to conduct remote interrogations online via our service and diagnostics network.

Simple, automated press start-up and run-down at the touch of a single button with KBA EasyGo und EasyStop

Automatic reelstand that splices precisely at maximum press speed

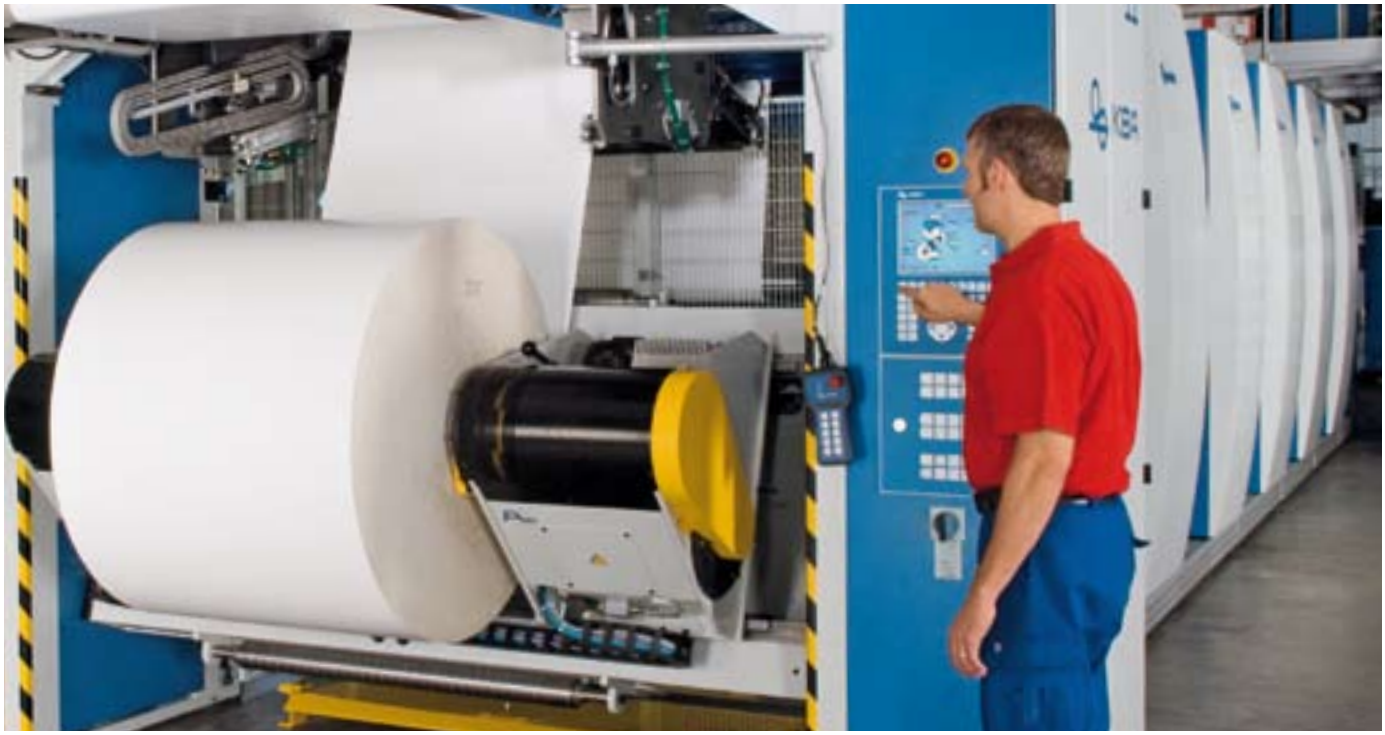
A chain web-up device is available as an option

KBA Pastoline

At a glance

Specifications	
• Power supply:	3 x 380 - 480 V (50 - 60 Hz)
• Max. splicing speed:	13 mps/2,560fpm
• Max. reel weight:	1.6 t/3,527 lbs
• Max. reel diameter:	1,270 mm/50 in
	450 mm/17.7 in (automatic splice)
• Min. butt-end diameter:	125 mm/4.92 in
• Min./max. web width:	300 mm/11.78 in
	1,000 mm/39.37 in
• Core as per Ifra:	76 mm/3 in
• Stock weight:	24 - 250 gsm/15.5 - 160 lbs
• Web tension:	15 dN/m
• Edge adjustment:	± 20 mm/0.78 in
• Reelstand weight:	approx. 4.5 t/9,921 lbs
• Reelstand height:	2,540 mm /8 ft 4 in

Options
• Integrated infeed unit for newspaper and commercial presses
• Pre-splice edge alignment for more precise splice
• Country-specific electrics
• Diagnostics system
• KBA Patras M manual reel-handling system
• Manual stripping station with or without weighing station
• Bar code for logging reel data



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