KOENIG & BAUER

XG

we’re on it.

EN

XG flexo press series:

the pinnacle of design and technical know-how

Developed for top performance in terms of quality, productivity and operational efficiency, the “XG” series is the result of longstanding experience, proven design and advanced technical know-how in manufacturing high-quality flexographic printing presses.

The application of innovative materials and technical solutions suitable to withstand the most critical production conditions ensure unrivalled printing results at maximum printing speeds on any substrate.

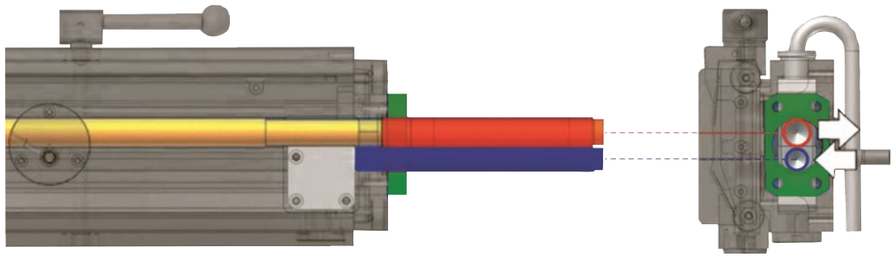
	Standard	Option
Number of print units	8, 10	In-line flexo or gravure print units for coating or patterned lacquering
Printing widths	from 1,000 (39.4”) to 1800 (71”)*	
Printing repeats	up to max 1,130 mm (44.49")	up to max 1,250 mm (49.2") (LR version)
Printing speeds	up to 600 m.p.m. (1,969 f.p.m.)**	
Ink systems	Solvent-based, water-based,	UV

* Wider printing widths available on request
** Higher printing speeds available on request

High performance printing groups

New generation doctor blade chamber for an optimized printing process and reduced waste

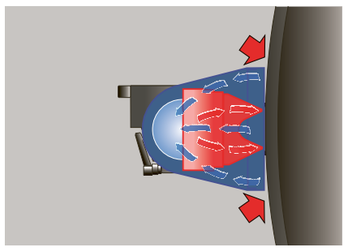
The print deck's innovative design is further enhanced by a new exclusive pipeless doctor-blade chamber system which removes all ink piping from the operating area to outside the machine's substantial side frames facilitating access to the inking units and cleaning operations.

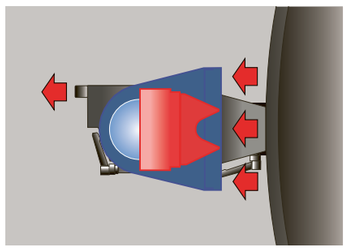


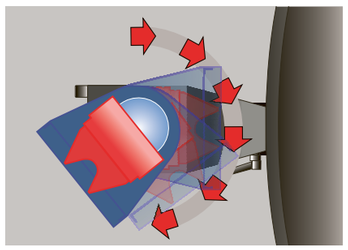
New doctor blade chamber with innovative design by Koenig & Bauer Flexotecnica

- Easy handling of chamber system with tool-less change of blades and seals
- Friction-free and accurate positioning of chamber group to the anilox on high-precision linear guides
- Inking consistency and stability
- Special version for water based inks
- High viscosity inks (UV) compatibility
- Anti-ghosting solution (3 blade system)

Enhanced productivity and efficiency of the printing process







Inter-colour dryers
New high-efficiency air ventilation system features inter-color stainless steel drying boxes and connecting manifold.

Air ducting is engineered based on the mathematical modeling of finite volumes with increased air speed and turbulence to improve drying capacity when using both solvent-based and water-based inks on various packaging materials.

The inter-color air duct is split between air supply and exhaust on either side of the press to ensure maximum air speeds and a perfect distribution of the air across wide web widths at high speed, which is particularly important when printing with water-based inks.

Highly innovative drying boxes
The inter-colour drying box has been developed to allow a simple 180° rotation thanks to a quick release system. It does not therefore need extracting from the printing unit and also makes operator access for standard cleaning operations easier.

New drying tunnel
The new drying tunnel is equipped with panels featuring an array of high-efficiency, deep-drawn circular holes which can be easily removed from the operator side for cleaning. They are specially designed to reduce air pressure loss and ensure maximum air turbulence at high printing speeds.

Hot air flows onto the printed web from both sides enhance ink drying at high printing speeds with increased air velocity and temperature.

Independent supply and extraction fans complete with a newly-developed air recycling control system and improved exhausted-air duct compensation prevent unwanted air turbulence and reduce thermal energy consumption.

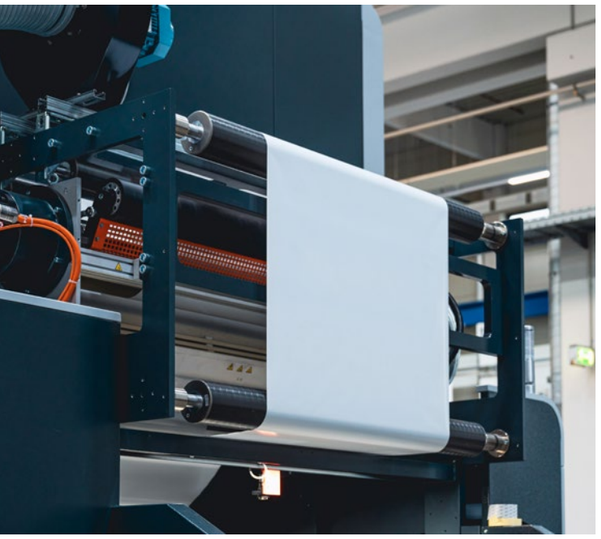
A “pre-capture hood” is incorporated to eliminate fugitive emissions of solvent vapours from above the CI drum, for enhanced atmospheric conditions and improved drying performance on heavier coat weights.

High efficiency drying tunnel

Shortened dryer tunnel with higher efficiency and less energy consumption

Combined lines for enhanced production versatility

Highly automated systems to achieve top flexibility



Complementing the **“XG”**, the **“XG” LR** model adds further value with a larger central impression drum diameter to allow for larger printing repeats. The “XG” LR is conceived to meet the highest expectations of specialty market demands of industrial overwrap packages or big format sacks whilst assuring unrivalled production performance and extreme flexibility – even when printing big repeats.

Given the larger printing repeat range provided, and the higher dimensions of its framework, all presses in this series can be equipped with the optional **“SRS” Smart Ride System** with special sleeve trolleys and lifting platforms for quick access to the upper printing units. That makes handling sleeves for big repeats easier, as well as sleeve change.

Modern flexographic installations can feature a combined layout designed either to apply a coating before printing (primer) or a brilliant or protective over lacquering on the printed material, both of which are required by sophisticated graphic structures of some packages.

Pneumatic ejectors for quick and simple printing and anilox sleeve removal in utmost safety by avoiding scratches or damage, particularly with wide printing widths and large print repeats

The patented **“SSC” (Safe Sleeve Change)** allows the preparation of idle units during machine run in the safest and most comfortable way.

“WashTronic” automatic washing system with digital control of all washing cycles via the touchscreen for both solvent and water based inks. The system ensures all inking groups on all print units are washed simultaneously in only a few minutes – or only those selected by the operator – and with minimized consumption of solvent or water.

Maximum reliability, advanced automation

Maximum reliability with the new electronic platform from Bosch. **Advanced automation** with the new ErgoTronic CNC control system. **Reduction of waste and increased productivity** with the new generation PrintTronic system.

ErgoTronic is the name of the new control system for Koenig & Bauer Flexotecnica printing presses featuring completely new PLCs, motion logic drives and high quality industrial operator panels to achieve increased system performance, accuracy and reliability.

Communication with the machine PC for job data entry and production data export to business information systems are Industry 4.0 compatible.

New ergonomic human machine interface **(HMI)** with modern digitally controlled touch screen panels for simple and intuitive job data input and control of press functions.

PrintTronic –
Automatic print impression setting system
Innovative solution which enables the automatic control of print impression positions with minimized material waste assuring a quick and efficient production start-up.
The management software of the PrintTronic system is integrated in the numerical control system of the printing press and its controls are accessed via the intuitive HMI in the machine operator interface panel.

The system has additional functions and practical benefits:

- Much quicker pressure adjustment on all printing units at the same time.
- Control of the printed surface under real production conditions
- Compatibility with any type of material, plates and inks
- No use of dedicated marks or sleeves
- No use of video cameras or external ancillary equipment
- No ink consumption during the process

Augumented Reality | AR-DataGlass for flexo
Real and virtual worlds become one, thanks to our AR-DataGlass. This new service tool has been developed by Koenig & Bauer Flexotecnica to enable any technician to view remotely the real time failures/issues on the machine by exchanging direct communication or any technical information and documentation.

This is a valuable audio visual tool which improves machine productivity, quality and performance by avoiding long production interruptions or misunderstandings.

24/7/365
Historical data proves that over 80% of machine failures can be resolved with high quality remote service. Maximum uptime of the production equipment together with qualified trained staff are key elements to achieving the utmost performance from a press which is essential to maintain a successful position in today's highly demanding market place.

For these reasons, Flexotecnica provides remote technical assistance for notification, diagnostics and identification of a press problem or malfunction via a quick communication link with service support 24 hours a day, 7 days a week.

ESP (Energy Saving Package)
The XG series is ideal for short and long run lengths alike thanks to engineering solutions applied which aim at minimized energy consumption along with the integration of optional equipment to make the planning and control of production easier and quicker. In addition, a choice of suitable press components enable increased process efficiency and, consequently, a reduction in operating and maintenance costs.

Highly efficiency motors with inverters and regenerative drives, optimized systems for air and energy recovery and the use of low-inertia carbon fiber mandrels for printing and anilox sleeves are just a few of the valuable technical solutions adopted on this press range which evidence we are strongly pursuing our objective of utmost environmental respect.

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