

KOENIG & BAUER

Evo XD flexo press series for high profits



we're on it.

Evo XD flexo press series: efficiency and profitability matched together

The Evo XD series has been engineered with the objective of achieving consistent high quality flexo printing with a cost-optimised investment thanks to a comprehensive package of ergonomic operating concepts which ensure high productivity and environmental sustainability.

The XD ensures to achieve excellent results in terms of high performance for both long and short run lengths thanks to the rigid mechanical design and the superior technology of the printing section with maximum output and minimised energy consumption due to a streamlined design and rationalised integration of all machine components and ancillary equipment.



The machine layout shows a “versatile” configuration so to enable the application of any print technology, either solvent- or water based, in this way keeping the machine investment away from any future technological obsolescence.

New design software for engineering and industrialisation of the product line configuration (“CLS” Customized Layout Solution) allow for machine layout optimization by choosing the most cost-effective and economically remunerative format.

	Standard	Option
Number of print units	8, 10	In-line flexo or gravure print units for coating or patterned lacquering
Printing widths	from 1270 mm (50") to 1600 mm (63")	-
Printing repeats	up to max. 1070 mm (42.12")	-
Printing speeds	up to 400 m.p.m. (1220 f.p.m.)*	up to 500 m.p.m. (1641 f.p.m.)*
Color systems	Solvent-based, water-based	UV, EB

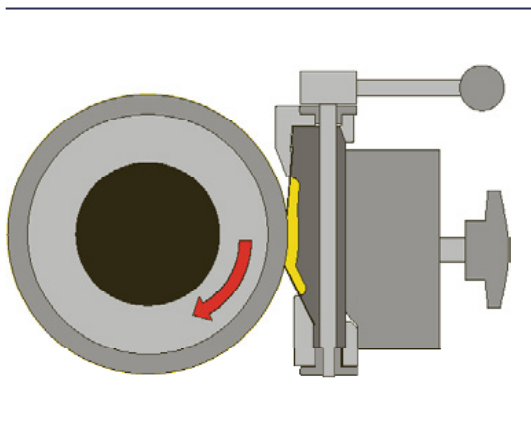






High performance printing groups

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



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 & EB) compatibility
- Anti-ghosting solution (3 blade system)

Enhanced productivity during the printing process



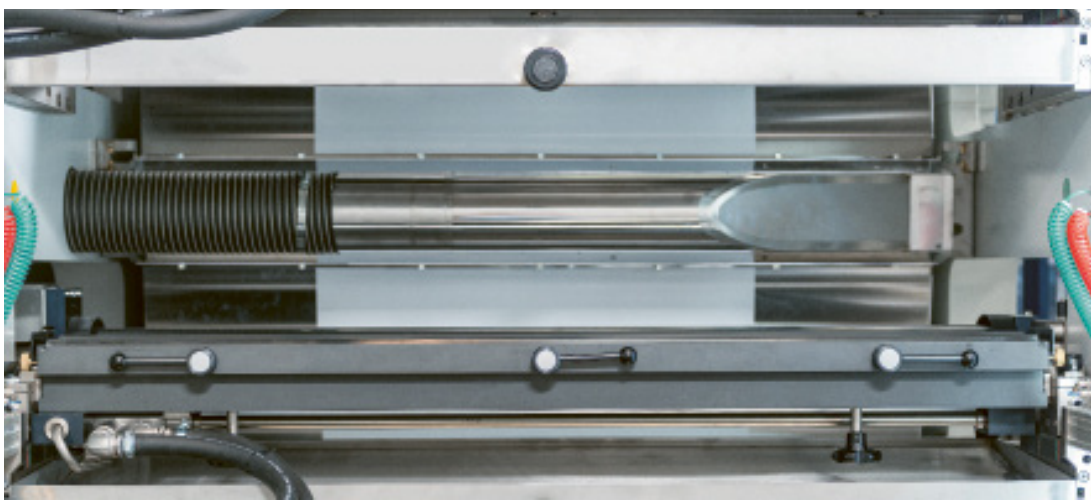
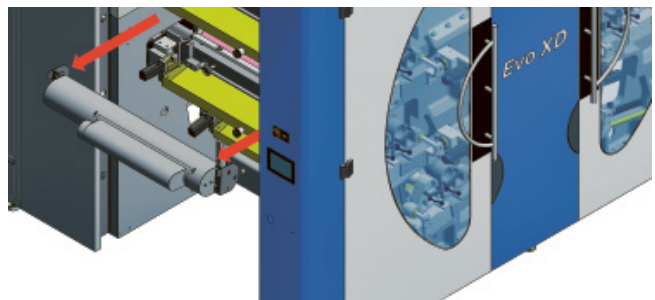
Inter-colour dryers

New high-efficiency air ventilation system features inter-colour 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.

Highly innovative drying boxes

The inter-colour drying box has been developed to be easily retracted for easier operator access for standard cleaning operations.





New drying tunnel

Shortened dryer tunnel with higher efficiency and less energy consumption



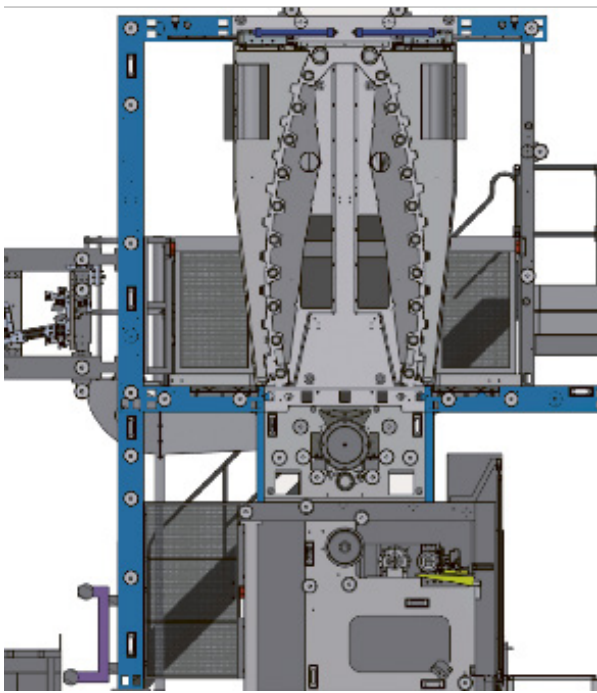
The new drying tunnel is equipped with panels featuring an array of high-efficiency, deep-drawn circular holes which can be easily removed from the operator side for cleaning. They are specially designed to reduce air pressure loss and ensure maximum air turbulence at high printing speeds.

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.

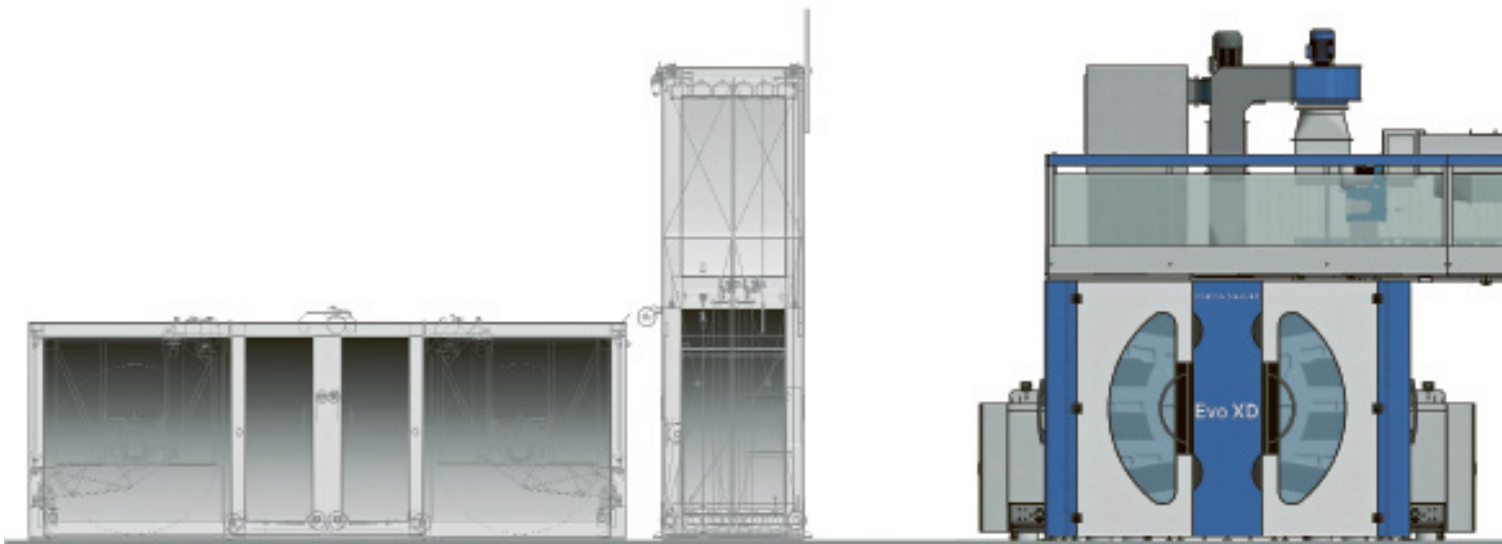
A "pre-capture hood" is incorporated to eliminate fugitive emissions of solvent vapours from above the CI drum, for enhanced atmospheric conditions and improved drying performance on heavier coat weights.

Combined lines for enhanced production versatility



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.

The additional in-line print units can be configured one after the other as a flexo or gravure print unit or be integrated into a hybrid unit





Automated systems to achieve top flexibility

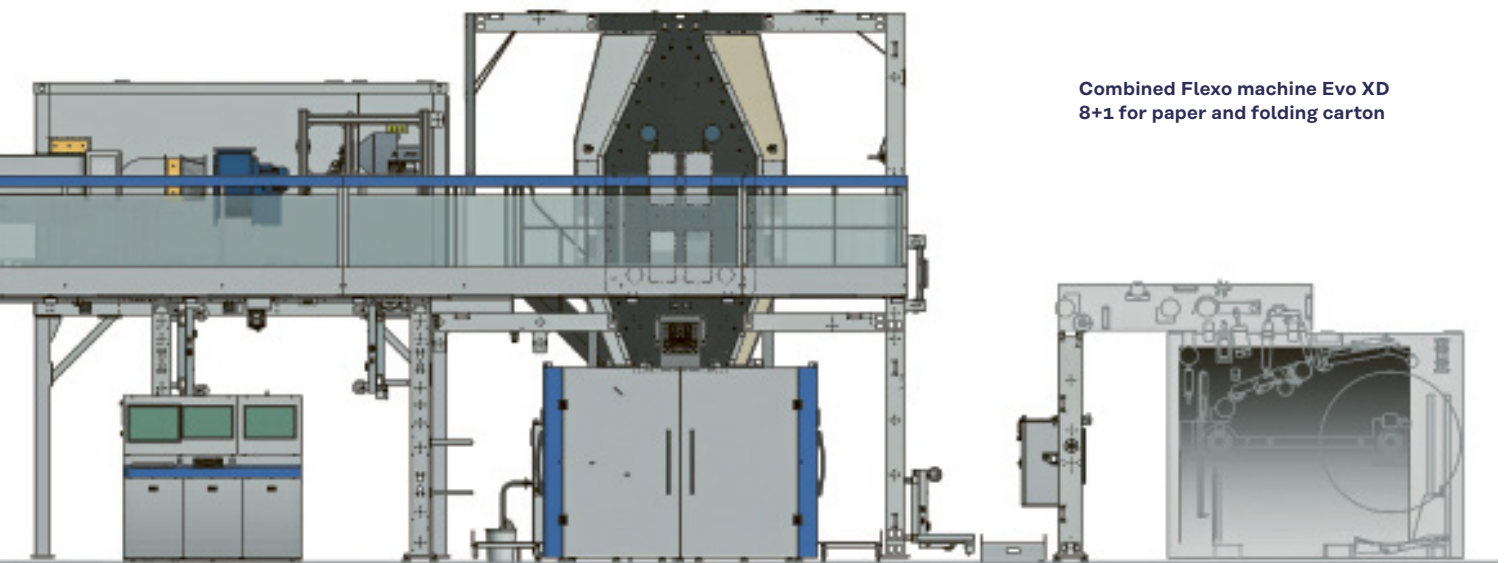
“Speedy Clean” automatic washing system with digital control of all washing cycles via the touchscreen for both solvent and water based inks. The system ensures all inking groups on all print units are washed simultaneously in only a few minutes – or only those selected by the operator – and with minimized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



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



Given the larger printing repeat range provided, and the higher dimensions of its framework, all presses in this series are 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.

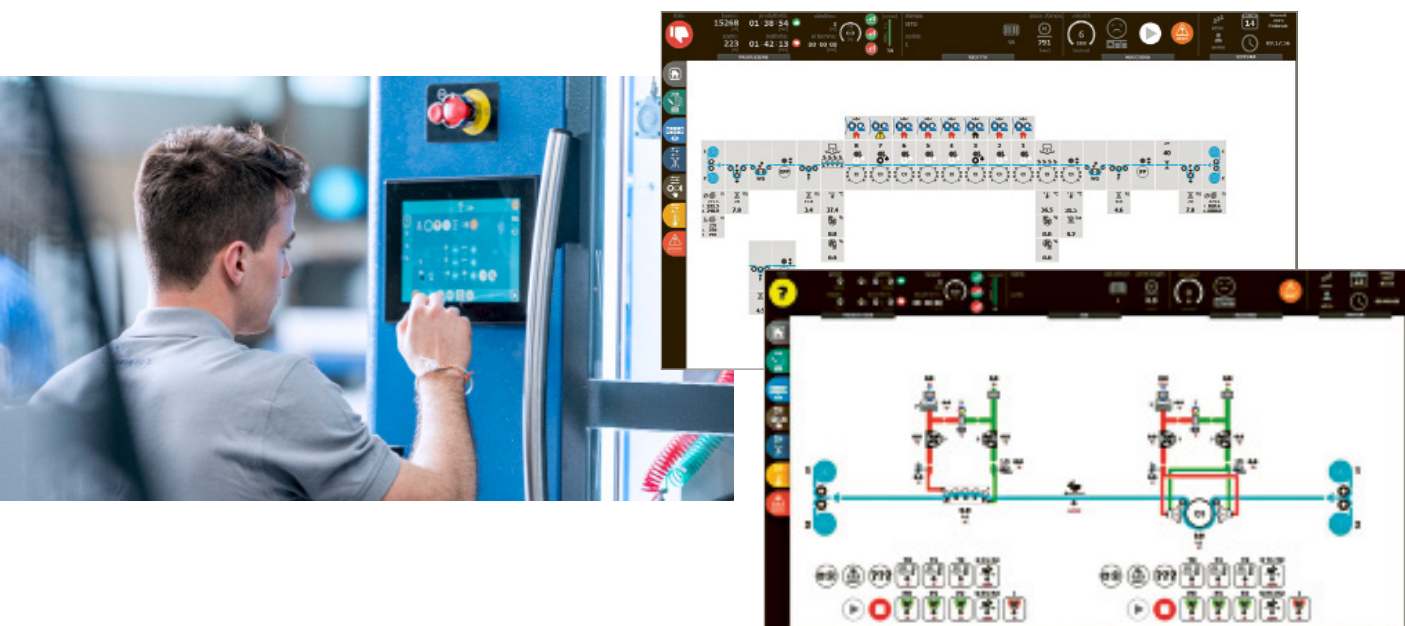


Combined Flexo machine Evo XD 8+1 for paper and folding carton

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 AIF 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.

AIF Auto Impression Flexo
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 AIF 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

