

Finished with passion

TYPICAL CUSTOMER / APPLICATIONS

- Book production, Photo-books, Postcards, Book covers with flaps, Folding cartons, Small packaging including window lamination, Brochures, Leaflets.
- For automated production lines where standardized jobs are typically processed.
- Customers with high requirements for quality, automation, and safety.

KEY FEATURES

Operation with high level of automation & perfect quality

- Full control of the lamination process according to the number of sheets supplied by the printer.
- A set of sensors is monitoring the speed of delivered sheets, the supply of sheets in the feeder, and the presence of the sheets in the feeder. The lamination speed or job finish is regulated according to these values.
- Autopilot option for checking amount of film and paper during operation.
- Automatic start up (pressure roller activation), with a single button press, makes the operation easy. At the same time, it prevents film from sticking to the roller.
- Low demands for human interventions - machine monitors and controls itself to prevent damage of the sheets or the machine.

EXTRAS

- Able to process sheets up to 800 mm long.
- Automatic repair of gap between sheets when it happens (no wasted sheets) thanks to the intelligent bottom suction feeder.
- Equipped with Bridge Conveyor and White Sheet Inserter, the laminator adapts its operation to the printer.
- Two ways of straightening sheets after lamination: a bar for perfectly straight output for thin papers and a roller, which prevents scratching the bottom side for sheets with duplex printing or double-sided glossy lamination.

WHY X-STREAM 3680 BY KOMFI?

- Unique solution for production sites with high demands for automation.
- Easy to operate & minimized wasted sheets.
- Machine and job settings stored for future memory recall.

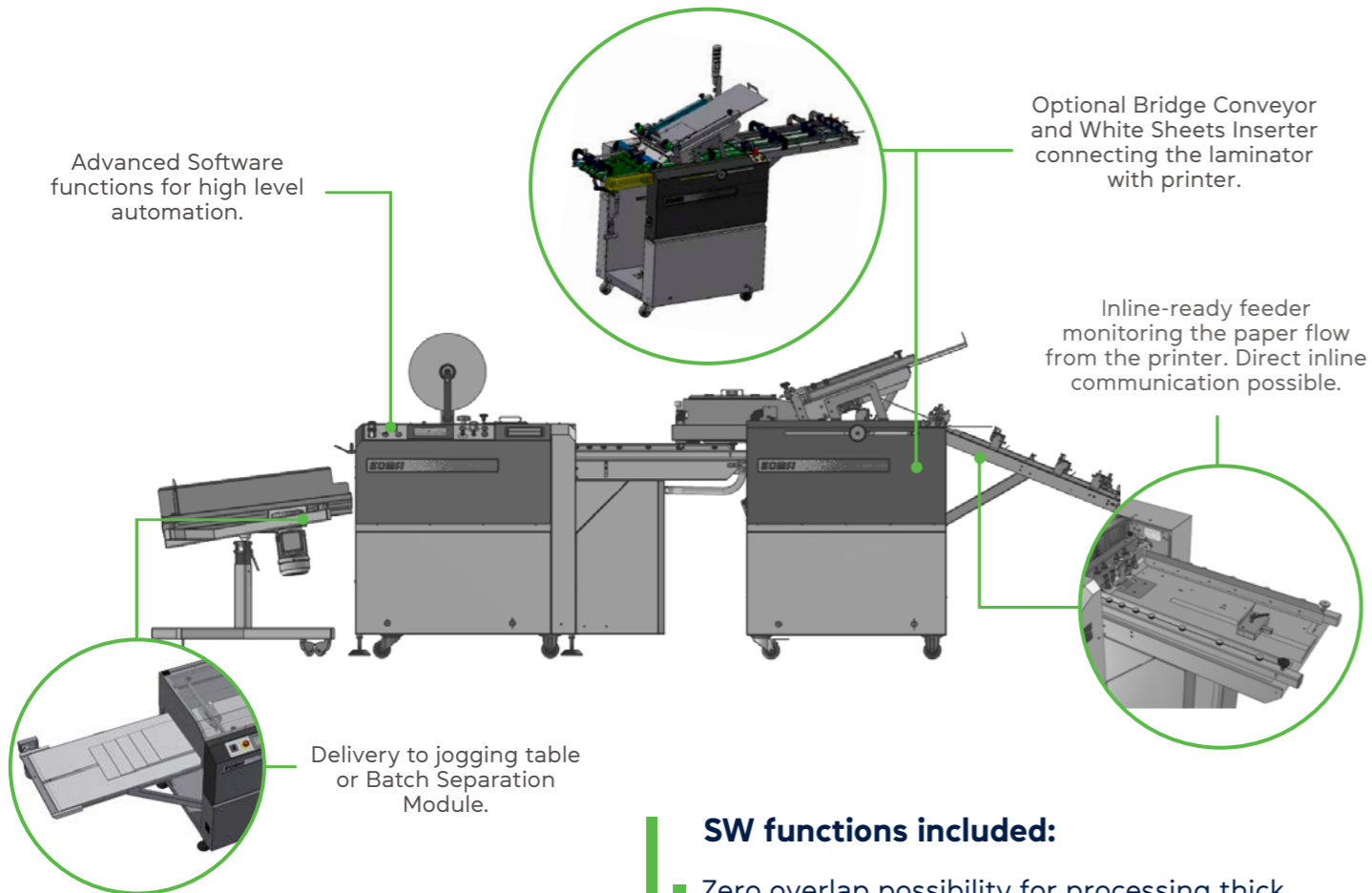
X-STREAM 3680

LAMINATOR



DESCRIPTION

- The X-Stream 3680 was developed in cooperation with digital printing machine manufacturers.
- This smart laminator brings the possibility of inline connection for high-productivity and automatized book production sites.
- For offline lamination it offers high level comfort to the operator when working with several smaller jobs printed digitally.
- One of the key design requirements was easy operation and minimal operator intervention.
- The X-Stream 3680 has a variety of useful software functions which avoid wasting sheets and minimize operator's mistakes.
- Inline connection with the printer including both-ways communication is solved individually.



SW functions included:

- Zero overlap possibility for processing thick substrates.
- Check the sheet is really loaded.
- Automatic press-on of the pressure roller.
- Stop on the sheet overlap to avoid wasted sheets.
- Automatic repair of gap between sheets (no wasted sheets).
- Automatic pressure and temperature drop detection.
- Automatic readjusting of the snapping unit when using de-curling bar.
- Sensor for sheet separation detection and jam detection.
- End of job function for easy rewind of film.
- Job setting memory.
- Built-in internet connectivity for service support.

Technical specifications

Max. production speed: 35 m/min

Max. sheet size: 360 x 800 mm

Min. sheet size: 200 x 250 mm

Paper weight: 115-600 gsm

Max. paper pile height: 6 cm

Laminating roller heating: Two-zones resistive direct heating

Heat-up time: 3-5 minutes

Overlap accuracy: ± 1 mm

Dimensions (incl. delivery desk): 2.82 x 0.92 m

BASIC CONFIGURATION

Feeder

- Intelligent Bottom Suction Feeder ready for inline connection.
- Sheet overlap sensor for protection of pressure roller from film sticking in case of a mis-feed.

Laminating unit

- Adjustable distance stoppers for lamination unit to enable processing thick substrates and windows lamination.
- Air shaft for 3" reel core laminating film.
- Adjustable spread roller for perfect smoothing of difficult film before lamination roller.
- Two-zones electro resistive heating of laminating cylinder.
- Temperature sensors inside the cylinder for extremely precise regulation.
- Teflon pressure roller with non-sticking surface to reduce film or duplex print marking on the roller surface and minimize cleaning effort.

Separator & delivery

- Powerful pneumatic pressure system to ensure excellent laminating result.
- Decurling unit consisting of bar and roller with position control to move the snapping moment automatically when the position of decurler is changed.
- Built-in perforator to enable sheet separation, placed behind pull rollers to avoid web brakes.
- Comfortable pull rollers activation from touch screen.
- Pneumatic driven separation roller for reliable snapping at high speed.
- Adjustable speed of snapping roller helps to reach perfect separation result of difficult jobs.
- Skewing wheel for fine adjustment of snapping to avoid film flagging.
- B2 jogging table.

OPTIONS

- Sheet preheater to increase durability and adhesion of lamination.
- PUR pressure roller for longer roller life.
- Bridge conveyor for connectivity to printing machine.
- White sheets inserter adds a few white sheets before stopping or finishing a job – resulting in completion of jobs, through the laminator, with no single sheet damaged.
- Film slitter to cut film to the requested width.
- Additional On roll perforator.
- Effect foiling device (OTF) with possibility to apply PSA film too.
- 1" unwinding shaft for effect foiling.
- Autopilot to monitor and control supply of paper and film. Useful in workshops where one person operates more than one machine.
- Antistatic bar removes static charge from the separator to avoid thin sheets wrapping onto the rollers.
- Air ionizer for smooth sheets unloading without static charge.
- Automatic (pneumatic) skew wheel enables 3 modes of work and therefore increases reliability of separation when processing wide range of jobs. Good to use for long sheets.
- Setting is from touch screen, not manually.
- Code reader receiving job information from the code printed on the sheet and controlling the machine accordingly.
- Batch separation module at delivery for easy jobs handling.