

*Finished with passion*

## TYPICAL CUSTOMER / APPLICATIONS

- B1 offset printers with high job load.
- Commercial printing and packaging industry.
- Reprintable jobs – sheets with metallic laminate are re-printed after lamination in offset printer to give the metallic look to the inks.
- Security market (ID cards) covered rainbow and holographic laminates.
- Folding boxes market with windows and partial (strip) lamination.

## KEY FEATURES

- High productivity and time-saving work.
- Capable of pallet-to-pallet operation with easy pallet positioning into the feeder with help of laser marker.
- Double action feeding head means no difficulties at high speed, the machine runs reliably up to maximum speed of 60 m/min.
- The machine provides all important elements for time-saving work, especially for those who change settings to various jobs very often: easy cleaning and maintenance, handling, extremely quick adjustment for a new job.

## EXTRAS

- Reliable thin paper processing of sheets less than 160 grams.
- Stability of sheet overlap (low tolerance) for jobs where printed area is close to the edge of paper which brings savings of material and is important for hard covers production.
- Trouble-free two-sided lamination due to reliable feeding and sheet registration which is easy to adjust to prevent misfeeding or double sheets when laminating second pass.
- Zero overlap for processing thick sheets and cardboard.
- Hot knife option and belt drive assures clean sheet separation without film flagging and maintain high quality of sheet surface even for sensitive (metallic, holographic) films
- Windows and partial (strip) lamination for folding boxes market.

## WHY SIRIUS 110 BY KOMFI?

- Compact footprint of the machine in comparison with other equipment of comparable output.
- Low energy consumption comparing to liquid heating – zone heating saves energy when processing small sheet format or small jobs.
- Quick return on investment and high resale value.

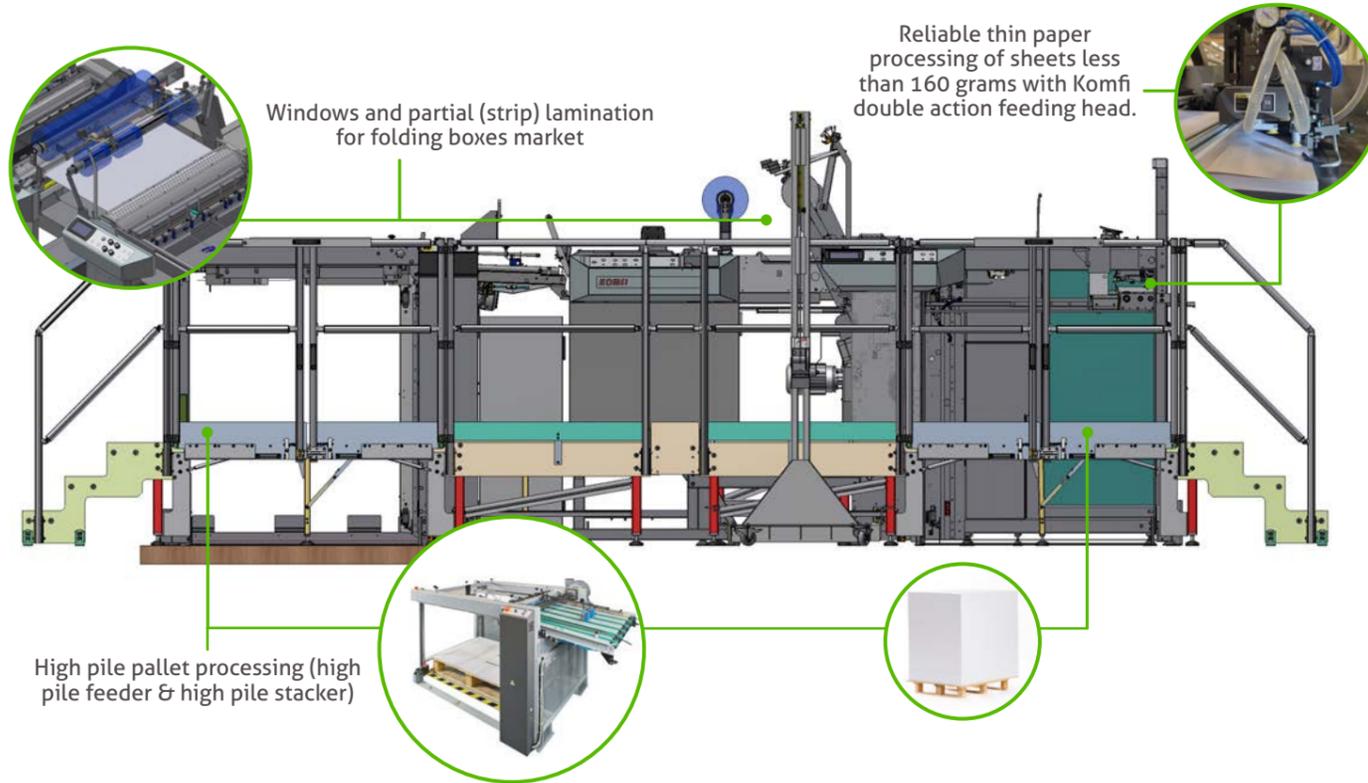
# SIRIUS 110

## LAMINATOR



## DESCRIPTION

- Double capacity for sheets in the high-pile feeder to reduce machine downtimes for consumables replenishing and to increase the machine efficiency.
- Square shaped feeder for B1 sized sheets to increase the machine productivity
- Easy placement of the pallet into the machine using laser pointers, elements for quick adjustment of the machine to a new job, air shaft, pneumatic snapping unit or hot knife for reliable separation of a wide range of foils.
- Well suited and highly applicable for both commercial printing and the packaging industry.
- Energy saving zone heating system with fastest heat up time.



Reliable thin paper processing of sheets less than 160 grams with Komfi double action feeding head.

Windows and partial (strip) lamination for folding boxes market

High pile pallet processing (high pile feeder & high pile stacker)

### SW functions included:

- Stop on the sheet overlap to avoid waste sheets.
- Zero overlap possibility for processing thick substrates.
- Automatic air pressure & temperature check to prevent from laminator and sheet damage
- End of job function for easy rewind of film.
- Sensor for sheet separation detection and jam detection to protect the machine and sheets from the damage.
- Automatic pressure roll disengagement to avoid to inks or paper filling sticking on roll surface when it is in pressure.
- Second gate off mode to remove the risk of sheet reverse side surface scratching.
- Feeder head auto parking allows to resume the lamination at any time.
- Automated start sequence facilitates start of lamination for operator.
- Windows lamination mode when misfeed sensor is tolerating the opening in the sheet and still controlling the sheet overlap.
- Instructions and basic troubleshooting on display.
- Auto separation sync feature keeps sheets separator always registered.
- Two speedometer modes meters/minute and sheets/hour toggle switch.
- Choice of measuring units (imperial/metric) and built-in language localisation.
- Job parameters pre-sets in the memory to shorten laminator changeover times.
- Built-in internet connectivity for service support.

## BASIC CONFIGURATION

### Feeder

- 2 -way accessible high pile pallet feeder with Komfi double action feeding head.
- Precise and constant sheet overlap achieved thanks to the sheet registration system using a mis-feed sensor, front lays, accelerating in-feed pulleys and guiding plates to prevent thin paper from wrinkling.
- Laser guided pallet driving system with quick adjustable lateral stops and air nozzles.
- Combined air / vacuum compressor.
- Adjustable separation blowers for reliable separation of sheets from the pile and trouble-free loading of long sheets.

### Laminating unit

- High-polished chrome laminating roll, with deep drilled sensors located close to the film surface.
- Dry, low inertia multi zone heating system using resistance heater, temperature detection by deep drilled sensor with the touch-less signal convertor.
- Laminating rolls are belt driven to achieve outstanding sheet surface quality for special metallic and holographic films.
- Pneumatic nip pressure applied by durable polyurethane coated pressure roll, with nip stoppers for thick sheets and windows lamination.
- On fly side adjustable air expansion unwind shaft, with automatic film tensioning and capacity detection. Height adjustable film spread roll to smooth wrinkles on film.
- Zone heating of the laminating roller keeps roll temperature even and saves energy when laminating small formats.

### Separator & delivery

- Pneumatic pull roll with adjustable nip force to create tension for sheet de-curling.
- Dual roll/bar de-curling adjustable unit with position detection to have sheet registered for its separation.
- 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 film perforator to enable sheet separation.
- Cam-driven separation roller with adjustable tearing action, delivery roller and sheet skewing wheel.
- Fixed delivery desk with adjustable air nozzles.

## OPTIONS

- Film splitter to cut film to the requested width.
- Additional On roll perforator
- Effect foiling device (OTF)
- Pallet fine positioning tool.
- Hot knife with variable rotation speeds for perfect separation of thick, PET and Nylon films that eliminates flagging.
- Antistatic bar removes static charge from the separator to avoid thin sheets wrapping onto the rollers.
- Windows lamination kit.
- Strip lamination kit.

### Technical specifications

**Max. production speed:** 60 m/min  
(50 m/min with hot knife)

**Max. sheet size:** 110 x 110 mm

**Min. sheet size:** 300 x 297 mm

**Paper weight:** 115-600 gsm

**Max. paper pile height:** 135 cm (incl. pallet)

**Laminating roller heating:** Zone electro-resistance heating

**Heat-up time:** 5 minutes

**Overlap accuracy:** ± 0.8 mm

**Dimensions** (incl. delivery desk): 7.08 x 2.71 m