

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?

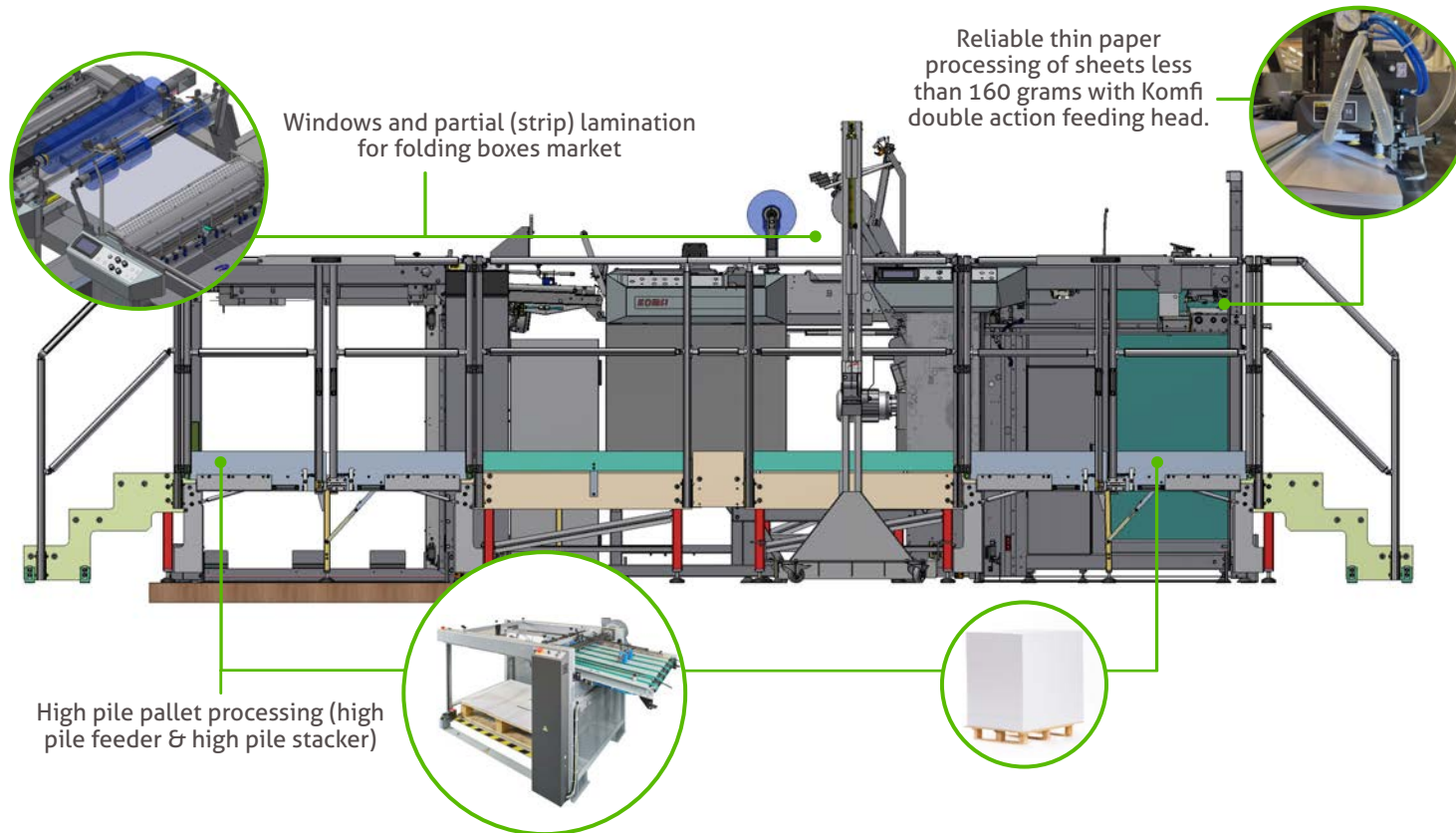
- Compact footprint of the machine in comparison with other equipment of comparable output.
- Low energy consumption comparing to liquid heating – zone heating saves energy when processing small sheet format or small jobs.
- Quick return on investment and high resale value.

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.



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 slit 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