

FOLIANT Mercury 530 NG



The FOLIANT Mercury 530 NG is a next generation of popular SF version. It is very compact industrial laminating machine, constructed for a heavy duty digital and offset outputs lamination. It is equipped with suction feeding head Foliant and a high speed bump separator. Several options are available for the Mercury machine – Heidelberg feeding head, Foliant Foiler, non-sticky pressure roller, pallet stacker, etc. Due to its high pressure system, format and performance the machine is suitable for all jobs – all kinds of digital printed sheets lamination and high volumes of offset printed sheets size B2+ lamination too. The machine maximum speed is up to 27 m/min., while performance is 2300 sheets per hour of B2 portrait (white paper 200 gsm).

Feeder

The FOLIANT Mercury 530 NG is equipped with a rising pile back separation stream feeder and with a suction feed head Foliant. It is driven by an Omron servo motor and controlled by a machine central PLC. The Becker vacuum pump is used for sheets back airing. The overlaps are electronically controlled, in an „in-run“ automatic mode, from the touch screen. The accuracy is +/- 2 mm under-lap (in a constant speed). The feeder is fitted with a lifting plate and its capacity is a 54 cm pile of paper.

Laminator

The FOLIANT Mercury 530 NG laminator maximum sheet size is 53 x 75 cm. The minimum sheet size is 32 x 25 cm (A4). The FOLIANT Mercury 530 NG machine is a single sided thermal industrial laminator, laminating the 115 – 600 gsm paper.

The laminating unit is equipped with an adjustable twin decurl unit:

- With a decurl blade for offset printed sheets decurling
- With a decurl roller for digital printed sheets decurling (to prevent the scratches on sheets printed on both sides by digital print with sensitive inks).

The roll of a film is mounted on a quick-changed shaft with a film tension control breaker. The shaft capacity is up to 3000 m of the 24 - 31 microns film. The film holder unit is equipped with a trim slit and a perforating wheel. The laminating process is made between two laminating rollers - a highly polished chrome roller, and a lower hard rubber pressure roller. The laminating roller is heated with a dry electric system inside the roller, with a sensitive temperature sensor. The warming up time is shorter than 10 minutes. The pressure is pneumatically adjustable, with an extra independent control knob for each roller edge. The machine is fitted with OMRON Programmable Logic Controllers, which control all machines' functions. The used PLC system includes many automation items for an easy control of the machine and a reliable lamination. The whole machine is controlled by an interactive easy understandable icon touch screen panel – no language version is needed.

Separator

The integrated bump separator (sheeter) is equipped with a pair of fast cycling rollers. The process is controlled from the machine PLC unit. The separated sheets are delivered into a vibrating jogger (optional) or a pallet stacker (optional).

Laminating Films

The machine laminates the BOPP films (24 – 42 µm) and Nylon films (24 – 35 µm). The PET films (20 – 26 µm) can be laminated with the optional module only.

Safety Measurements

FOLIANT Mercury 530NG is certified by independent testing laboratory DGUV Test and obtained GS mark ("Tested Safety"). The measurements for operators safety are better than required by law in order to minimize injuries.

Specifications :

- **Maximal Speed:** single side 27 m/min.
- **Feeding System:** automatic, Suction Feeder Foliant, Feeder's Capacity 54 cm
- **Overlaps:** Automatic, PLC Controlled, Overlaps Accuracy ± 2 mm
- **Separation:** Automatic, bump rollers
- **Paper Weight:** 115–600 g/m²
- **Main Roller Pressure System:** Pneumatic
- **Compressor:** External, 150 l / min, 6-8 bar
- **Minimal Sheets Size (w×l):** 32×25 cm
- **Maximal Sheets Size (w×l):** 53×75 cm
- **Maximal Performance:** 2300 B2 / hod.
- **Temperature Control:** 80–140 °C, Warming Up Time 8 min
- **Power Supply:** 3 f., 400V AC, 50-60 Hz
- **Power:** 5250 W
- **Mechanical Parameters:** Floorspace (w×l) 120×270 cm, Weight: 595 kg
- **Pallet Stacker:** integrated automatic, Capacity ~70 cm

Optional

* Important - the machine have to be operated either with Jogger or Pallet Stacker

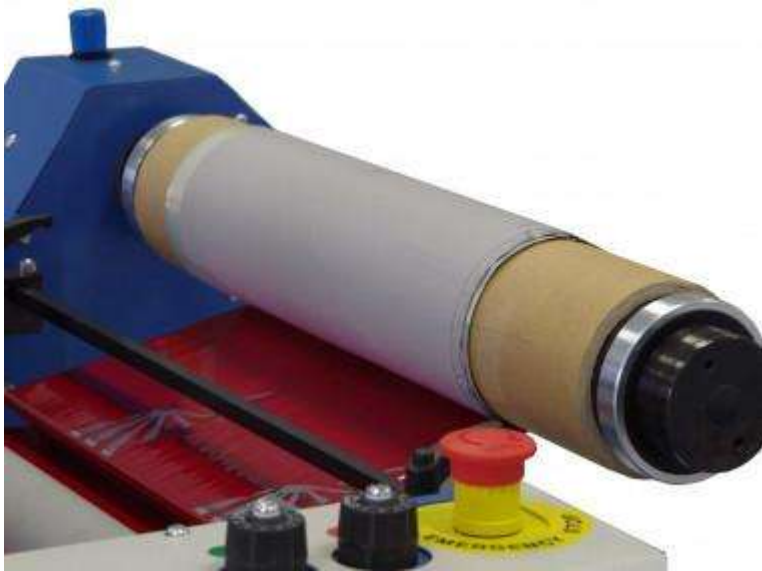
Jogger 530

Adjustable vibrating reception unit for the laminated sheets stocking. Its capacity is limited up to a 10 cm pile of sheets.



Foliant Folier

Winding device that allows use of metalized film (gold, silver, red, etc.) and spot varnish film applied over print from digital printing machine.



Pallet Stacker - automatics

Fully automatic motorized device that unloads laminated sheets into a high pile on pallet.



Film Loader

an electric lift with a film core adaptor for loading heavy rolls of film.



Module PET

PET Films Lamination Module

Non-sticky pressure roller

Standard pressure roller is replaced by roller with special non-sticky surface.

Module for lamination (53×100)

Module for sheets 53×100 cm lamination

Video Link - https://www.youtube.com/watch?v=BpyyQ2WKC98&feature=emb_logo