



FOLIANT MERCURY 400 NG

The FOLIANT Mercury 400 NG is a very compact industrial laminating machine constructed for heavy-duty digital and offset output. It is equipped with an Heidelberg integrated suction feeder and a high-speed bump separator. Several options are available for the Mercury machine – 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 digitally printed sheets and high volumes of offset printed sheets size 14" x 20" for lamination. **The machine maximum speed is up to 88 ft./min.**, while performance is 3,240 sheets per hour of 14" x 20" portrait (white paper 200 gsm).



FEEDER

The FOLIANT Mercury 400 NG is equipped with a rising back pile separation stream feeder and with a Heidelberg suction feed head. It is driven by an Omron servo motor and controlled by a machine central PLC. The Becker vacuum pump is used for sheet separation. The overlaps are electronically controlled, in an "in-run" automatic mode, from the touchscreen. The accuracy is +/- 2 mm (0.08") under-lap (in a constant speed). The feeder is fitted with a lifting plate and its capacity is a 21.25" pile of paper.

LAMINATOR

The FOLIANT Mercury 400 NG laminator maximum sheet size is 15.7" x 27.5". The minimum sheet size is 12.5" x 7.8". The FOLIANT Mercury 400 NG machine is a single-sided thermal industrial laminator, laminating 115 – 600 gsm paper.

The laminating unit is equipped with an adjustable twin de-curl unit:

- With a de-curl blade for offset printed sheets
- With a de-curl roller for digital printed sheets (to prevent the scratches on sheets digitally printed on both sides with sensitive digital inks).

The roll of film is mounted on a quick-changed shaft with a film tension control breaker. The shaft capacity is up to 9,842' of the 24 - 42 microns film. The film holder unit is equipped with a trim slitter 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 warm 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 controls all of the machine's functions. The used PLC system includes many automation items for easy control of the machine and reliable lamination. The whole machine is controlled by an interactive easy-to-understand icon touchscreen 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 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.

OPTIONS

JOGGER 400

Adjustable vibrating reception unit for the stacking of laminated sheets. Its capacity is limited to 3.9" pile of sheets.

PALLET STACKER

Fully-automatic device that unloads laminated sheets into a high pile on a pallet. Its capacity is 27.5" of paper.

NON-STICKY PRESSURE ROLLER

The standard rubber pressure roller is replaced by a roller with a non-sticky surface. Melted glue from film cannot stick to it even under heavy pressure. Cleaning of this roller is not necessary at all. It allows for the lamination of sheets with windows.

FOLIANT FOILER

Winding device that allows use of metalized film (gold, silver, red, etc.) and spot varnish film.

FILM MICRO ADJUSTABLE AIR SHAFT

Air shaft for precise and easy film placement.

MODULE FOR SHEETS 15.7" X 39.4" LAMINATION

It is an extension for the lamination of sheets with size up to 15.7" x 39.4". Sheets above 27.5" cannot be unloaded to Integrated pallet stacker.

PET FILMS LAMINATION MODULE

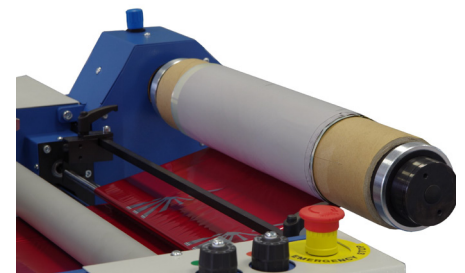
It is a module integrated inside the separator for the PET films (max. 25 microns) processing.

FILM LOADER/MANIPULATOR

It is an electric lift with a film core adapter for loading heavy rolls of film (max. capacity 275.5 lbs). The device is not integrated with the machine. It is only connected with the machine's electrical circuits.



Optional Pallet Stacker (integrated)



Optional Foliant Foiler

Foliant Mercury 400 NG

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|---------------------------------|---------------------------------|---|---------------------------|
| Max Speed | 88' / min | Temperature Control | 176° - 284°F |
| Feeding | Automatic | Power Supply | 3 ph., 400 V AC, 50-60 Hz |
| Feeding System | Suction Feeding Head Heidelberg | Power | 4900 W |
| Feeder's Load Capacity | 21.25" | Floor space (w x l) incl. a Jogger | 41" x 90.5" |
| Overlaps | Automatic, PLC Control | Weight | 1,080 lbs |
| Overlaps Accuracy | + / - 2 mm (0.08") | Module for PET Films Processing | Optional |
| Separation | Automatic, Bump Rollers | Foliant Foiler | Optional |
| Paper Weight | 115 - 600 gsm | XL Module (sheets 40 x 100 cm) | Optional |
| Main Rollers Pressure | Pneumatic | Jogger 400 | Optional |
| External Compressor | 150 l / min, 6 - 8 bar | Pallet Stacker Integrated | Optional |
| Min. Sheets Size (w x l) | 12.5" x 7.8" | Stacker capacity | 27.5" |
| Max. Sheets (w x l) | 15.7" x 27.5" | Non-sticky pressure roller | Optional |
| Max. Performance | 3240 14" x 20" sheets / hour | Film Loader (Electric) | Optional |
| Warming up Time | 8 min | Film Micro Adjustable Air Shaft | Optional |

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