



## 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 a Foliant 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).



### 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 digitally printed sheets (to prevent scratches on digitally printed sheets printed on both sides with sensitive 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 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 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.

## FEEDER

The FOLIANT Mercury 400 NG is equipped with a rising back pile separation stream feeder and with a Foliant 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" paper.

## 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 microns) and Nylon films (24 - 35 microns). The PET films (20 - 25 microns) can be laminated with an optional module only.

## OPTIONS:

### JOGGER 400

The Jogger 400 is an adjustable vibrating reception unit for stacked laminated sheets. Its capacity is limited with a 3.9" sheet pile.

### 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

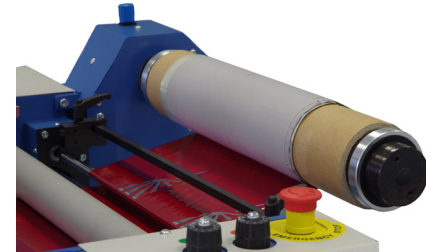
The standard rubber pressure roller is replaced by a roller with a non-sticky surface. Melted glue from the film cannot stick to it even under heavy pressure. Cleaning of this roller is not necessary at all. It allows for the laminating of sheets with windows.

### FOLIANT FOILER

Winding device that allows use of metalized film (gold, silver, red, etc.) and spot varnish film. The machine behaves as semi-automatic during foiling because there is no need for separation.



Optional Pallet Stacker (integrated)



Optional Foliant Foiler

## XL MODULE FOR SHEETS 15.7" X 39.4" LAMINATION

The XL module is an extension for the lamination of sheets with a size up to 15.7" x 39.4". Sheets above 27.5" cannot be unloaded into the integrated Pallet Stacker.

## PET FILMS LAMINATION MODULE

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

## FILM LOADER/MANIPULATOR

The Film Loader/Manipulator 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.

### Foliant Mercury 400 NG

Max Speed	88' / min	External Compressor	150 l / min, 6 - 8 bar
Max. Performance	3240 14" x 20" SPH	Min. Sheets Size (W x L)	12.5" x 20"
Feeding	Automatic	Max. Sheets (W x L)	15.7" x 27.5"
Feeding System	Foliant Suction Feeding Head	Warm Up Time	8 min
Feeder's Load Capacity	21.25"	Temperature Control	176° - 284°F
Overlaps	Automatic, PLC Control	Power Supply	3 ph., 400 V AC, 50-60 Hz
Overlaps Accuracy	+ / - 0.08"	Power	4900 W
Separation	Automatic, Bump Rollers	Floor Space (W x L) Incl. a Jogger	41" x 90.5"
Paper Weight	115 - 600 gsm	Weight	1080 lbs.
Main Rollers Pressure	Pneumatic		

The information in this document is subject to change without notice.

