



FOLIANT MERCURY 400 NG 4x4 DOUBLE

The FOLIANT Mercury 400 NG 4x4 Double is a double-sided laminating machine offering very high performance. It is a very compact and fast industrial laminating machine, constructed for nonstop work. It is equipped with a Foliant suction feeder, high-speed bump separator and many options like non-sticky rollers, pallet stacker or Foliant Foiler. Due to its 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 in single-side lamination or 82 ft/min in double-sided lamination, while performance is up to 3,240/3,000 sheets per hour of 12" x 14" portrait (white paper 200 gsm).



LAMINATOR

The FOLIANT Mercury 400 NG 4x4 laminator's maximum sheet size is 15.7" x 27.5", extendable to 39.3" with the optional XL module. The minimum sheet size is 12.6" x 9.8" (A4). The FOLIANT Mercury 400 NG 4x4 machine is a double-sided thermal industrial laminator, laminating the 115 – 600 gsm paper, with a unique "U" cross bar for the perfect lamination of thin sensitive sheets.

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 scratches on digitally printed sheets printed on both sides with sensitive inks)

The rolls of film are mounted on shafts that allow precise film positioning by screws. Each shaft capacity is up to 9,842' of the 24 - 42 microns film. Both film holders are equipped with a trim splitter and a perforating wheel.

The laminating process is made between a pair of laminating rollers for each side - a highly polished chrome roller and a hard rubber pressure roller. Both chrome rollers are heated with a dry electric system. The warm up time is less than 10 minutes. The pressure is pneumatically adjustable with an extra independent control knob for each pressure roller edge.

The machine is fitted with OMRON PLC, which controls all of the machine's functions. The 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 4x4 is equipped with a rising pile back 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 standard feeder is fitted with a lifting plate and its capacity is a 21.25" paper pile.

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 (single-sided 20 - 26 microns, double sided 20-22 microns).

OPTIONS:

JOGGER 400

The Jogger 400 is an adjustable vibrating reception unit for stacked laminated sheets. Its capacity is limited up to a 3.9" of paper.

INTEGRATED MOTORIZED PALLET STACKER

Fully-automatic device that unloads laminated sheets into a high pile onto 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.

XL MODULE

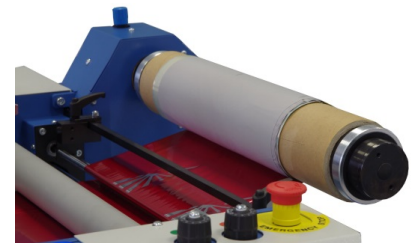
Longer feeding table, extends maximum paper length up to 39.3". Sheets with length over 27.5" cannot be unloaded into the integrated pallet stacker.



Optional Jogger



Optional Pallet Stacker



Optional Foliant Foiler

FILM MICRO ADJUSTABLE AIR SHAFT (UP TO 2x)

Air shaft for precise and easy film placement.

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 4x4 double

Max Speed (Single / Double)	88" / 82" Per Min	Warm Up Time	8 Min
Max. Performance	3240 / 3000 14" x 20" SPH	Temperature Control	176° - 284°F
Feeding	Automatic	Power Supply	3 ph., 400 V AC, 50-60 Hz
Feeding System	Foliant Suction Head	Power	7650 W
Feeder's Load Capacity	21.25"	Floor Space with Jogger (W x L)	41.3" x 122"
Overlaps	Automatic, PLC Control	Weight	1,300 lbs
Overlaps Accuracy	+ / - 2 mm (0.08")	Module for PET Films Processing	Optional
Separation	Automatic, Bump Rollers	XL Module (Sheets Up to 3.28')	Optional
Paper Weight	115 - 600 gsm	Jogger 400	Optional
Main Rollers Pressure	Pneumatic	Pallet Stacker (Motorized)	Optional
External Compressor	150 l / min, 6 - 8 bar	Pallet Stacker Capacity	27.5"
Min. Sheets Size (W x L)	12.6" x 9.8"	Foliant Foiler	Optional
Max. Sheets (W x L)	15.7" x 27.5"	Film Loader (Electric)	Optional
Film Micro Adjustable Air Shaft	Optional, up to 2x	Non-sticky Pressure Roller	Optional, up to 2x

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

