



# FOLIANT MERCURY 530 NG 4x4 DOUBLE

The FOLIANT Mercury 530 NG 4x4 double is a double-sided laminating machines offering very high performance. It is a very compact and fast industrial laminating machine, constructed for nonstop work. It is equipped with a Heidelberg 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 19.7" x 27.8" for lamination. **The machine maximum speed is up to 88 ft/min in single-side lamination and 82 ft/min in double-side lamination**, while performance is up to 2,300/2,100 sheets per hour of 19.7" x 27.8" portrait (white paper 200 gsm).



## FEEDER

The FOLIANT Mercury 530 NG 4x4 is equipped with a rising pile back 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 standard feeder is fitted with a lifting plate and its capacity is a 21.25" pile of paper.

## LAMINATOR

The FOLIANT Mercury 530 NG 4x4 laminator maximum sheet size is 20.9" x 29.5", extendable to 39.3" with optional XL module. The minimum sheet size is 12.59" x 9.8" (A4). The FOLIANT Mercury 530 NG 4x4 machine is a double-sided thermal industrial laminator, laminating the 115 – 600 gsm paper, with a unique "U" cross bar for perfect lamination of thin sensitive sheets.

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

- With a de-curl blade for strong effect
- With a de-curl roller for weaker effect and as protection for back print

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 slit 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 shorter 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 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 the BOPP films (24 – 42 µm), Nylon films (24 – 35 µm) and PET films (20 – 26 µm).

## OPTIONS

### JOGGER 530\*

An adjustable vibrating reception unit for the stacking of laminated sheets. Its capacity is limited up to a 3.9" pile of sheets.

### PALLET STACKER – INTEGRATED AUTOMATIC\*

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

### NON-STICKY PRESSURE ROLLER (UP TO 2X)

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 over digital toner.

### FILM MICRO ADJUSTABLE AIR SHAFT (UP TO 2X)

Air shaft for precise and easy film placement.

### XL MODULE

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

### FILM LOADER/MANIPULATOR

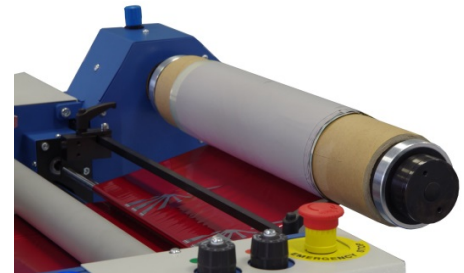
It is an electric lift with a film core adapter for loading heavy rolls of film (max. capacity 275.5 lbs). The device is not integrated with the machine. It is only connected with the machine's electric circuits.



Optional Jogger



Optional Pallet Stacker



Optional Foliant Foiler

### Foliant Mercury 530 NG 4x4 double

<b>Max Speed (single / double)</b>	82' / 88' / min	<b>Warming up Time</b>	8 min
<b>Max. Performance</b>	2300 / 2100 19.7" x 27.8" sheets / hour	<b>Temperature Control</b>	176° - 284°F
<b>Feeding</b>	Automatic	<b>Power Supply</b>	3 ph., 400 V AC, 50-60 Hz
<b>Feeding System</b>	Suction Head Heidelberg	<b>Power</b>	8350 W
<b>Feeder's Load Capacity</b>	21.25"	<b>Floor space with Jogger (w x l)</b>	47.2" x 122"
<b>Overlaps</b>	Automatic, PLC Control	<b>Weight</b>	1,587 lbs
<b>Overlaps Accuracy</b>	+ / - 2 mm (0.08")	<b>Film Micro Adjustable Air Shaft</b>	Optional, up to 2x
<b>Separation</b>	Automatic, Bump Rollers	<b>XL Module (sheets up to 1 m)</b>	Optional
<b>Paper Weight</b>	115 - 600 gsm	<b>Jogger 530</b>	Optional
<b>Main Rollers Pressure</b>	Pneumatic	<b>Pallet Stacker (motorized)</b>	Optional, 27.5" capacity
<b>External Compressor</b>	150 l / min, 6 - 8 bar	<b>Foliant Foiler</b>	Optional
<b>Min. Sheets Size (w x l)</b>	12.59" x 9.8"	<b>Film Loader (Electric)</b>	Optional
<b>Max. Sheets (w x l)</b>	20.86" x 29.5"	<b>Non-sticky pressure roller</b>	Optional, up to 2x

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