



# FOLIANT TAURUS 530 NG 4X4 DOUBLE

The FOLIANT Taurus 530 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 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 131 ft/min in single side lamination and 114 ft/min in double side lamination**, while performance is up to 3,420 or 2,900 sheets per hour of 19.7" x 27.8" portrait (white paper 200 gsm).



## FEEDER

The FOLIANT Taurus 530 NG 4x4 is equipped with a rising pile back separation stream feeder and with a 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 Taurus 530 NG 4x4 laminator maximum sheet size is 20.8" x 29.5", extendable to 39.3" with optional XL module. The minimum sheet size is 12.59" x 9.84". The FOLIANT Taurus 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 roll of film is mounted on an air shaft that allows very convenient, easy and precise film positioning. The shaft capacity is up to 9,842' of the 24 - 31 microns film. The film holder unit is 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 inside, which consists of several rings mounted directly to the inside wall of the roller. This ensures that heat transfer is perfect even at maximum speed. Sensitive temperature sensors are also inside the rollers as close to surface as possible. 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) and PET films (20 – 26 µm).

## OPTIONS

### JOGGER 530 (OPTIONAL)\*

It is 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 (OPTIONAL)\*

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 (UP TO 2X) (OPTIONAL)

A 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 (OPTIONAL)

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

### XL MODULE (OPTIONAL)

Longer feeding table, extends maximum paper length up to 39.3". Sheets with length over 29.5" cannot be unloaded to Integrated pallet stacker.

### FILM LOADER/MANIPULATOR (OPTIONAL)

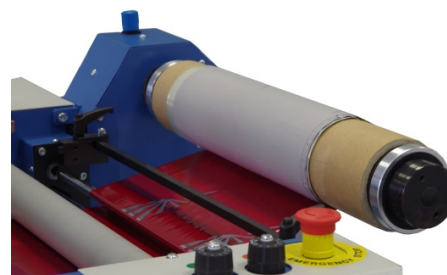
It is an electric lift with a film core adapter for loading heavy rolls of film (max. capacity 275.5 lbs). The device is not integrated with the machine. It is only connected with the machine's electric circuits.



Optional Jogger



Optional Pallet Stacker(manual)



Optional Foliant Foiler

### Foliant Taurus 530 NG 4x4 double

<b>Max Speed (single / double)</b>	131" / 114" / min	<b>Warming up Time</b>	8 min
<b>Max. Performance</b>	3400 / 2900 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 Feeding Head	<b>Power</b>	10300 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>	1,609 lbs
<b>Overlaps Accuracy</b>	+ / - 2 mm (0.08")	<b>Module for PET Films Processing</b>	Optional
<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, 28.7" 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 9.84"	<b>Film Loader (Electric)</b>	Optional
<b>Max. Sheets (w x l)</b>	20.8" x 29.5"	<b>Non-sticky pressure roller</b>	Optional, up to 2x
<b>Film Micro Adjustable Air Shaft</b>	Standard		

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