



FOLIANT TAURUS 400 NG 4x4 DOUBLE

The FOLIANT Taurus 400 NG 4x4 Double is a double-sided laminating machine offering very high-end 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 14" x 20" for lamination. The machine's maximum speed is up to 131 ft/min in both single- and double-sided lamination, while performance is up to 4,800 sheets per hour of 14" x 20" portrait (white paper 200 gsm).



LAMINATOR

The FOLIANT Taurus 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 7.8". The FOLIANT Taurus 400 NG 4x4 machine is a double-sided thermal industrial laminator, laminating 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 a strong effect
- With a de-curl roller for a weaker effect to protect the printed back side of the sheet.

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 is 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. Each chrome roller is equipped with a "full internal surface contact" electronic heating system. It consists of several heating rings mounted inside the roller. This gives stable, even heating across the full diameter of the main roller and delivers consistent temperature even at high speed. A sensitive temperature sensor is also inside each roller as close to the surface as possible. 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 an 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 Taurus 400 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 21.25” of 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 pallet stacker (optional).

LAMINATING FILMS

The machine laminates BOPP films (24 – 42 microns) and PET films (20 - 26 microns single-sided, 20 - 22 microns double-sided).

OPTIONS:

JOGGER 400*

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

INTEGRATED MOTORIZED 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 (2X)

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 over digital toner.

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.

ANTI-STATIC BAR

Pair of ionizing bars that remove static charge from laminated paper.

XXL FEEDING TABLE EXTENSION

Removable feeding table extension that is able to support paper up to 51” long. Sheets over 27.5” with manual feeding only.

FILM LOADER/MANIPULATOR

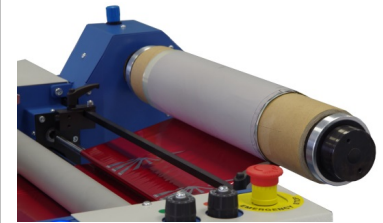
The Film Loader/Manipulator is an electric lift with a film core adapter for loading heavy rolls of film (max. capacity 275.5 lbs). The device is not integrated with the machine. It is only connected with the machine’s electrical circuits.



Optional Jogger



Optional Pallet Stacker



Optional Foliant Foiler

*Important - the machine has to be operated either with a Jogger or a Pallet stacker.

Foliant Taurus 400 NG 4x4 Double			
Max Speed (Single / Double)	131' / min	Min. Sheet Size (W x L)	12.6" x 7.8"
Max. Performance	4,800 14" x 20" SPH	Max. Sheet Size (W x L)	15.7" x 27.5"
Feeding	Automatic	Warming Up Time	8 min
Feeding System	Suction Feeding Head	Temperature Control	176 - 284°F
Feeder's Load Capacity	21.2"	Power Supply	3 ph., 400 V AC, 50-60 Hz
Overlaps	Automatic, PLC Control	Power	8900 W
Overlaps Accuracy	+ / - 2 mm (.08")	Floor Space with Jogger (W x L)	41.3" x 122"
Separation	Automatic, Bump Rollers	Weight	1,323 lbs
Paper Weight	115 - 600 gsm	External Compressor	150 l / min, 6 - 8 bar
Main Rollers Pressure	Pneumatic		

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

