



FOLIANT TAURUS 400 NG

The FOLIANT Taurus 400 NG is a very compact industrial laminating machine, constructed for heavy-duty digital and offset work. It is equipped with an integrated Foliant suction feeder and a high-speed bump separator and many options like a Non-sticky Roller, Pallet Stacker or Foliant Foiler. 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's maximum speed is up to 131 ft./min., while performance is 4,800 sheets per hour of 14" x 20" portrait (white paper 200 gsm).



LAMINATOR

The FOLIANT Taurus 400 NG laminator's maximum sheet size is 15.7" x 27.5". The minimum sheet size is 12.6" x 7.8". 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 digital printed sheets. (to prevent scratches on two-sided digitally printed sheets with sensitive inks).

The roll of film is mounted on an air shaft that allows for very convenient, easy and precise film positioning. 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 equipped with "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 the 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 roller edge.

The machine is fitted with an OMRON Programmable Logic Controllers 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 interactive, color touchscreen panel is intuitive and icon-based for user-friendly operation. No language translation is needed.

FEEDER

The FOLIANT Taurus 400 NG is equipped with a suction feed head. The sheets are processed with a raising pile and rear suckers with lift and advance sheets to the laminator. It is driven by an OMRON servo motor and controlled by a machine central PLC. The Becker vacuum/air 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 21.2" 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 Nylon films (24 - 35 microns). PET films (20 - 25 microns) can be laminated with an optional PET Films Lamination Module only.

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 the pallet. Its capacity is 3.9" of paper.

PET FILMS LAMINATION MODULE

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

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.

ANTI-STATIC BAR

A pair of ionizing bars that remove static charge from laminated paper.

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

Because the quality of lamination depends on a combination of many factors (film and paper quality, printing technology being used, etc.), the actual speed of operation will vary depending on these factors.



Optional Pallet Stacker (integrated)



Optional Foliant Foiler

XXL FEEDING TABLE EXTENSION

Removable feeding table extension that is able to support paper up to 51.2" long. Sheets over 27.5" cannot be unloaded to Integrated Motorized Pallet Stacker.

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.

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Max Speed	131' / min	External Compressor	150 l / min, 6 - 8 bar
Max. Performance	4,800 14" x 20" SPH	Min. Sheet Size (w x l)	12.6" x 7.8"
Feeding	Automatic	Max. Sheet Size (w x l)	15.7" x 27.5"
Feeding System	Foliant Suction Feeding Head	Warming Up Time	8 min
Feeder's Load Capacity	21.2"	Temperature Control	176 - 284°F
Overlaps	Automatic, PLC Control	Power Supply	3 ph., 400 V AC, 50-60 Hz
Overlaps Accuracy	+ / - 2 mm (.08')	Power	5900 W
Separation	Automatic, Bump Rollers	Floor Space (w x l) w/Jogger	41.3" x 90.5"
Paper Weight	115 - 600 gsm	Weight	1,091 lbs
Main Rollers Pressure	Pneumatic		

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