



FOLIANTEU, s.r.o.  
Stefanikova 1347/III  
293 01 Mlada Boleslav  
Czech Republic  
tel +420 326 370 711  
[foliant@foliant.eu](mailto:foliant@foliant.eu) | [www.foliant.eu](http://www.foliant.eu)

# FOLIANT TAURUS 400 NG 4X4 DOUBLE

The FOLIANT Taurus 400 NG 4x4 double is brand new double sided laminating machine offering high-end performance. It is very compact and fast industrial laminating machine, constructed for non-stop work. It is equipped with a suction feeder, high speed bump separator and many options like non-sticky rollers, pallet stacker or Foiler. Due to its format and performance the machine is suitable for all jobs – all kinds of digital printed sheets lamination size B3+. The machine maximum speed is up to 40 m/min. in single side lamination and in double side lamination as well, while performance is up to 4800 sheets per hour of B3 portrait (white paper 200 gsm).



## 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 sheets back airing. The overlaps are electronically controlled, in an „in-run“ automatic mode, from the touch screen. The accuracy is +/- 2 mm under-lap (in a constant speed). The standard feeder is fitted with a lifting plate and its capacity is a 54 cm pile of paper.

## LAMINATOR

The FOLIANT Taurus 400 NG 4x4 laminator maximum sheet size is 40 x 70 cm, extendable to 100 cm with optional XL module. The minimum sheet size is 32 x 25 cm. The FOLIANT Taurus 400 NG 4x4 machine is double sided thermal industrial laminator, laminating the 115 – 600 gsm paper, with an unique „U“ cross bar for perfect lamination of thin sensitive sheets.

The laminating unit is equipped with an adjustable twin decurl unit:

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

The roll of a film is mounted on an air shaft that allows very convenient, easy and precise film positioning. The shaft capacity is up to 3000 m of the 24 - 31 microns film. The film holder unit is equipped with a trim slitter and a perforating wheel.

The laminating process is made between two laminating rollers for each side - a highly polished chrome roller, and a hard rubber pressure roller. Each chrome 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 each roller as close to surface as possible. The warming up time is shorter than 10 minutes. The pressure is pneumatically adjustable, with an extra independent control knob for each roller edge.

The machine is fitted with OMRON PLC, which control all machines' functions. The used PLC system includes many automation items for an easy control of the machine and a reliable lamination. The whole machine is controlled by an interactive easy understandable icon touch screen 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 [single sided, 20-22 µm double sided]).

## OPTIONS

### JOGGER 400 (OPTIONAL)\*

It is an adjustable vibrating reception unit for the laminated sheets stocking. Its capacity is limited up to a 10 cm pile of sheets.

### PALLET STACKER – INTEGRATED AUTOMATIC (OPTIONAL)\*

Fully automatic device that unloads laminated sheets into a high pile on pallet. Its capacity is 70 cm of paper.

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

Standard rubber pressure roller is replaced by roller with non-sticky surface. Melted glue from film cannot stick to it even under heavy pressure. Cleaning of this roller is not necessary at all. Allows laminating 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 100 cm. Sheets with length over 70 cm cannot be unloaded to Integrated pallet stacker.

### FILM LOADER/MANIPULATOR (OPTIONAL)

It is an electric lift with a film core adaptor for loading heavy rolls of film (max. capacity 125 kg). The device is not integrated with the machine. It is only connected with the machine's electric circuits.

### XXL FEEDING TABLE EXTENSION

Removable feeding table extension that is able to support paper up to 130 cm long. Sheets over 70 cm long with manual feeding only.

### ANTI-STATIC BAR

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

\* Important – the machine have to be operated either with Jogger or Pallet stacker



Optional Jogger



Optional Pallet Stacker



Optional Foliant Foiler

### Foliant Taurus 400 NG 4x4 double

<b>Max Speed (single / double)</b>	40 m / min	<b>Min. Sheets Size (w x l)</b>	32 x 25 cm
<b>Max. Performance</b>	4800 / B3 / hour	<b>Max. Sheets (w x l)</b>	40 x 70 cm
<b>Feeding</b>	Automatic	<b>Warming up Time</b>	8 min
<b>Feeding System</b>	Suction Feeding Head	<b>Temperature Control</b>	80 - 140°C
<b>Feeder's Load Capacity</b>	54 cm	<b>Power Supply</b>	3 ph., 400 V AC, 50-60 Hz
<b>Overlaps</b>	Automatic, PLC Control	<b>Power</b>	8900 W
<b>Overlaps Accuracy</b>	+ / - 2 mm	<b>Floor space with Jogger (w x l)</b>	105 x 310 cm
<b>Separation</b>	Automatic, Bump Rollers	<b>Weight</b>	600 kg
<b>Paper Weight</b>	115 - 600 gsm	<b>External Compressor</b>	150 l / min, 6 - 8 bar
<b>Main Rollers Pressure</b>	Pneumatic		

The information in this document is subject to change without notice and should not be construed as a commitment by Foliant EU. Foliant EU assumes no responsibility for any errors that may appear in this document.