



FOLIANTEU, s.r.o.
Stefanikova 1347/III
293 01 Mlada Boleslav
Czech Republic
tel +420 326 370 711
foliant@foliant.eu | www.foliant.eu

FOLIANT TAURUS 400 NG

The FOLIANT Taurus 400 NG is an answer to growing demand for high speed B3 laminator. It is a very compact industrial laminating machine, constructed for a heavy duty digital and offset outputs lamination. It is equipped with an integrated suction feeder Foliat (its origin is in the offset printing machines made in Czechoslovakia) and a high speed bump separator. Several options are available for the Taurus machine – Foliat Foiler, non-sticky pressure roller, pallet stacker, etc. Due to its high pressure system, format and performance the machine is suitable for all jobs – all kinds of digital printed sheets lamination and high volumes of offset printed sheets size B3+ lamination too. **The machine maximum speed is up to 40 m/min.**, while performance is 4800 sheets per hour of B3 portrait (blank paper 200 gsm).



FEEDER

The FOLIANT Taurus 400 NG is equipped with a suction feeding head. The sheets processed with a raising pile and rear suckers with lift and advance sheets to the laminator. The feeding head is driven by an Omron servo motor and controlled by a machine central PLC. The Becker vacuum/air pump is used for sheets movement (vacuum) and sheets back airing (blowing air). 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 feeder is fitted with a lifting plate and its capacity is a 54 cm pile of paper. The feeding head origin is in the offset printing machines made in former Czechoslovakia.

LAMINATOR

The FOLIANT Taurus 400 NG laminator maximum sheet size is 40 x 70 cm. The minimum sheet size is 32 x 20 cm. The FOLIANT Taurus 400 NG machine is a single sided thermal industrial laminator, laminating the 115 – 600 gsm paper.

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

- With a decurl blade for offset printed sheets decurling
- With a decurl roller for digital printed sheets decurling (to prevent the scratches on sheets printed on both sides by digital print with sensitive inks).

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 - 42 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 - a highly polished chrome roller, and a lower hard rubber pressure roller. The chrome 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 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 Programmable Logic Controllers, 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 interactive color touch screen is intuitive and icon based for user-friendly operation. It brings another advantage - no language mutation 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 BOPP films (24 – 42 µm) and Nylon films (24 – 35 µm). The PET films (20 – 26 µm) can be laminated with the optional module only.

OPTIONS

JOGGER 400

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

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

NON-STICKY PRESSURE ROLLER

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

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

MODULE FOR SHEETS 40 X 100 CM LAMINATION

It is an extension for lamination of sheets with size up to 40 x 100 cm. Sheets above 70 cm cannot be unloaded to Integrated pallet stacker.

PET FILMS LAMINATION MODULE

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

FILM LOADER/MANIPULATOR

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 electric circuits.

XXL FEEDING TABLE EXTENSION

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

ANTI-STATIC BAR

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



Optional Pallet Stacker (integrated)



Optional Foliant Foiler

Foliant Taurus 400 NG

Max Speed	40 m / min	External Compressor	150 l / min, 6 - 8 bar
Max. Performance	4800 B3 / hour	Min. Sheets Size (w x l)	32 x 25 cm
Feeding	Automatic	Max. Sheets (w x l)	40 x 70 cm
Feeding System	Suction Feeding Head Foliant	Warming up Time	8 min
Feeder's Load Capacity	54 cm	Temperature Control	80 - 140°C
Overlaps	Automatic, PLC Control	Power Supply	3 ph., 400 V AC, 50-60 Hz
Overlaps Accuracy	+ / - 2 mm	Power	5900 W
Separation	Automatic, Bump Rollers	Floor space (w x l) incl. a Jogger	105 x 230 cm
Paper Weight	115 - 600 gsm	Weight	495 kg
Main Rollers Pressure	Pneumatic		