



FOLIANT GEMINI 400 NG-T

The FOLIANT Gemini 400 NG-T is the next generation of high-pressure laminating machines developed for a **digital output**. The machine is equipped with a pneumatic system of laminating rollers pressure with an easy thrust control. A small compressor is integrated inside the machine frame. The machine has been designed with an operating width of 14.96" and it represents an ideal choice for professional single side lamination in digital shops and all other printing shops, printing and processing sheets up to 13.9" x 19.7" size (the length of laminated sheets is not limited, in practice lamination it is ~27.5"). **Maximum speed is up to 49 feet/min.**



The machine's main feature is the pneumatic pressure system in a heavy duty mechanism enabling to achieve a very high working pressure, one single phase 220 – 240 V supply cable, a small integrated compressor inside the machine frame (i.e. no external source of pressured air is required), a nice design and easy machine operation.

LAMINATOR

The FOLIANT Gemini 400 NG-T laminator maximum sheet size is 14.96" x 22.83". The minimum sheet size is 7.87" x 11.8" (A4). The roll of film is mounted on an easy handle shaft with a film tension control breaker. The shaft capacity is up to 9,842' of 24 - 42 microns film and core diameter 1" or 3". The film holder unit is equipped with a trim splitter and a perforating wheel.

The laminating process is done between two laminating rollers - a highly polished chrome roller, and a lower hard rubber pressure roller. The laminating roller is heated with an infrared heating spiral, with a sensitive contact temperature sensor. The pressure is pneumatically adjustable to achieve an extra high pressure between the laminating rollers. A small compressor is integrated inside the machine frame.

The laminating unit is equipped with an adjustable twin de-curl unit:

- With a de-curl blade for offset printed sheets
- With a decurl roller for digital printed sheets (to prevent scratches on digitally printed sheets printed on both sides with sensitive inks).

Whole machine is controlled from touchscreen with interactive interface.

FEEDING

The FOLIANT Gemini 400 NG-T is a manual machine. The feeding is manual. The laminating unit is equipped with a synchronized feeding conveyor and an adjustable side guide for an easy loading.

SEPARATION

The FOLIANT Gemini 400 NG-T is a manual machine. The separation is manual. Due to the perforation of film (done in the process of laminating) the whole process is easy.

AUTOMATIC SEPARATION

Any time later the machine can be upgraded with an automatic separator. The belt separator (sheeter) is equipped with a separating roller and a deflection wheel. The separated sheets are delivered into a reception unit or a vibrating jogger (options).

LAMINATING FILMS

The machine laminates the BOPP films (24 – 42 microns) and Nylon films (max. 35 microns). Film roll with 1" and 3" core can be used.

OPTIONS

FILM SUPPLY ROLL SHAFT (OPTIONAL)

Extra Film Supply Roll Shaft for quicker film replacement.

NON-STICKY PRESSURE ROLLER (OPTIONAL)

Standard rubber pressure roller is replaced by 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 laminating sheets with windows.

FOLIANT FOILER (OPTIONAL)

Winding device that allows use of metalized film (gold, silver, red, etc.) and spot varnish film. Machine behaves as semi-automatic during foiling, because there is no need for separation.



Extra Film Supply Roll Shaft



Optional Foliant Foiler

Foliant Gemini 400 NG-T

Max Speed	49' / min	Temperature Control	80 - 140°C
Max. Performance	1800 B3 / h	Warming up Time	5 min
Feeding	Manual	Machine control	Touch screen + PLC
Separation	Manual	Power Supply	230 V AC, 50-60 Hz
Paper Weight	115 - 350 gsm	Power	2550 W
Main rollers pressure	Pneumatic	Floor space (w x l)	29" x 46"
Integrated compressor	Included	Weight	335 lbs
Min. Sheets Size (w x l)	7.87" x 11.8"	Non-sticky pressure roller	Optional
Max. Sheets size (w x l)	14.96" x 22.83"	Foliant Foiler	Optional