



## FOLIANT GEMINI 400 NG-S

The FOLIANT Gemini 400 NG-S is the next generation of semi-automatic high-pressure laminating machines (laminator and separator) developed for digital output. The machine is equipped with a pneumatic pressure system of laminating rollers with an easy thrust control. A small compressor is integrated inside the machine frame. The machine has been designed with an operating width of 14.9" and it represents an ideal choice for professional, single-side lamination in digital shops and all other print shops, printing and processing sheets up to 13.9" x 19.7". Maximum speed is up to 49 feet/min.



The machine's main feature is a pneumatic pressure system in a heavy-duty mechanism enabled 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-S laminator's maximum sheet size is 14.9" x 22.8". The XL Module option allows laminating sheets maximum size of 14.9" x 25.9". The minimum sheet size is 7.8" 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 the 24 - 42 microns film and has a core diameter of 1" or 3". The film holder unit is equipped with a trim slitter 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 heating with an infrared heated spiral with a sensitive contact temperature sensor. The pressure is pneumatically adjustable to achieve extra high pressure between the laminating rollers.

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 digitally printed sheets (to prevent scratches on digitally printed sheets printed on both sides with sensitive inks)

The whole machine is controlled by a touchscreen with an interactive interface.

## 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 (optional).

## FEEDING

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

## LAMINATING FILMS

The machine laminates BOPP films (24 – 42 microns). The Nylon films (24 - 35 microns) can be laminated with the optional Nylon Films Application module integrated inside the machine separator. Film rolls with a 1" or 3" core can be used. The machine comes with a 3" core. The 1" core is optional.

## OPTIONS:

### JOGGER 400\*

The Jogger 400 is an adjustable vibrating reception unit for stacked laminated sheets. Its capacity is limited up to a 3.9" sheet pile.

### RECEPTION UNIT RU 400\*

The Reception Unit RU 400 is a simple adjustable reception unit for stacking the laminated sheets.

### 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.

### MODULE FOR NYLON FILMS PROCESSING

This module is integrated inside the machine separator for processing the Nylon film.

### FILM SUPPLY ROLL SHAFT

Extra Film Supply Roll Shaft for quicker film replacement.

### XL MODULE FOR SHEETS 14.96" X 25.98" LAMINATION

The XL module is for laminating longer sheets. (The max size output is 22.83" x 25.98").

### FOLIANT FOILER

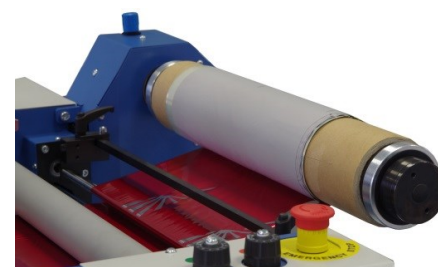
Winding device that allows use of metalized film (gold, silver, red, etc.) and spot varnish film.

**\*Important** - The machine must be operated either with a RU 400 or with a Jogger 400.

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 Jogger



Optional Foliant Foiler



Optional Supply Roll Shaft

#### Foliant Gemini 400 NG-S

Max Speed	49' / min	Power Supply	230 V AC, 50-60 Hz
Feeding	Manual	Power	2800 W
Separation	Automatic	Machine Control	Touchscreen + PLC
Paper Weight	115 - 350 gsm	Floor Space (W x L)	29.1" x 86.6"
Main Rollers Pressure	Pneumatic	Weight	407
Integrated Compressor	Included	Nylon Films Processing Module	Optional
Min. Sheet Size (W x L)	7.8" x 11.8"	Reception Unit 400	Optional
Max. Sheet Size (W x L)	14.9" x 22.8"	Jogger 400	Optional
Max. Performance	1200 13.9" x 19.7" / h	Non-sticky Pressure Roller	Optional
Temperature Control	80 - 140°C	XL Module for Sheets 14.96" x 25.98"	Optional
Warm Up Time	5 min	Foliant Foiler	Optional

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