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FOLIANT GEMINI 400 NG-S

The FOLIANT Gemini 400 NG-S is a next generation of semiautomatic high pressure laminating machine (laminator and separator) developed for a **digital printing machines outputs lamination**. 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 380 mm 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 B3+ size (the largest format is 38 x 58 cm, with a special option even 38 x 66 cm). **Maximum speed is up to 15 meters/min.**



The machine's main feature is a 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 an easy machine operation.

LAMINATOR

The FOLIANT Gemini 400 NG-S laminator maximum sheet size is 38 x 58 cm. The option allows laminating sheets of maximum size 38 x 66 cm. The minimum sheet size is 20 x 30 cm (A4). The roll of a film is mounted on an easy handle shaft with a film tension control breaker. The shaft capacity is up to 3000 m of the 24 - 42 microns film and core diameter 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 heated with an infra-red 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 decurl unit:

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

Whole machine is controlled from touch screen with 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 (options).

FEEDING

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

LAMINATING FILMS

The machine laminates the BOPP films (24 – 42 microns). The Nylon films (24 - 35 microns) can be laminated with the optional module integrated inside the machine separator. Film roll with 1" and 3" core can be used.

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.

RECEPTION UNIT RU 400*

It is a simple adjustable reception unit for stocking the laminated sheets.

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.

MODULE FOR NYLON FILMS PROCESSING

It is a module integrated inside the machine separator for the Nylon films processing.

FILM SUPPLY ROLL SHAFT

Extra Film Supply Roll Shaft for quicker film replacement.

MODULE FOR SHEETS 38 X 66 CM LAMINATION

It is a module for longer sheets lamination (for example the max. size outputs from Xerox iGen4 is 58 x 66 cm).

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.



Optional Jogger



Optional Foliant Foiler



Optional Supply Roll Shaft

Foliant Gemini 400 NG-S

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|---------------------------------|---------------|--------------------------------------|--------------------|
| Max Speed | 15 m / min | Power Supply | 230 V AC, 50-60 Hz |
| Feeding | Manual | Power | 2800 W |
| Separation | Automatic | Machine control | Touch screen + PLC |
| Paper Weight | 115 - 350 gsm | Floor space (w x l) | 74 x 220 cm |
| Main rollers pressure | Pneumatic | Weight | 185 kg |
| Integrated compressor | Included | Nylon Films Processing Module | Optional |
| Min. Sheets Size (w x l) | 20 x 30 cm | Reception Unit 400 | Optional |
| Max. Sheets size (w x l) | 38 x 58 cm | Jogger 400 | Optional |
| Max. Performance | 1200 B3 / h | Non-sticky pressure roller | Optional |
| Temperature Control | 80 - 140°C | Module for Sheets 38x66 cm | Optional |
| Warming up Time | 5 min | Foliant Foiler | Optional |