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FOLIANT MERCURY 400 NG

The FOLIANT Mercury 400 NG is a next generation of popular SF version. It is very compact industrial laminating machine, constructed for a heavy duty digital and offset outputs lamination. It is equipped with an integrated suction feeder Foliant and a high speed bump separator. Several options are available for the Mercury machine – Foliant 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 27 m/min**., while performance is 3240 sheets per hour of B3 portrait (white paper 200 gsm).

FEEDER

The FOLIANT Mercury 400 NG is equipped with a rising pile back separation stream feeder and with a suction feed head Foliant. 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 feeder is fitted with a lifting plate and its capacity is a 54 cm pile of paper.

LAMINATOR

The FOLIANT Mercury 400 NG laminator maximum sheet size is 40 x 75 cm. The minimum sheet size is 32 x 25 cm. The FOLIANT Mercury 400 NG machine is a single sided thermal industrial laminator, laminating the 115 – 600 gsm paper.

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 the scratches on sheets printed on both sides by digital print with sensitive inks).

The roll of a film is mounted on a quick-changed shaft with a film tension control breaker. 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 laminating roller is heated with a dry electric system inside the roller, with a sensitive temperature sensor. 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 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 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.

Pallet feeder

Standard table is replaced with pallet lift. Capacity increased to 77 cm of paper. Fully enclosed for safety, accessible from operating side and from front of the machine. One trolley included.

Feeding head Heidelberg

Foliant Mercury 400 NG can be equipped with original feeding head Heidelberg.

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.

7" Touch screen

Standard touch screen is replaced with larger one (2,6x larger area) on movable arm.

Foliant Foiler

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

Film Micro Adjustable Air Shaft

Air shaft for precise and easy film placement.

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 90 kg). Battery driven for seamless operation.

XXL Feeding Table Extension

Removable feeding table extension that is able to support paper up to 130 cm long. Sheets over 75cm 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 (integrated)

Optional Foliant Foiler

Optional Pallet feeder

Optional 7" Touch screen

Foliant Mercury 400 NG			
Max Speed	27 m / min	**External Compressor**	150 l / min, 6 - 8 bar
Max. Performance	3240 B3 / hour	**Min. Sheets Size (w x l)**	32 x 25 cm
Feeding	Automatic	**Max. Sheets (w x l)**	40 x 75 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**	4900 W
Separation	Automatic, Bump Rollers	**Floor space (w x l) incl. a Jogger**	105 x 230 cm
Paper Weight	115 - 600 gsm	**Weight**	490 kg
Main Rollers Pressure	Pneumatic		