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FOLIANT MERCURY 400 NG 4X4 DOUBLE

The FOLIANT Mercury 400 NG 4x4 double is next generation of double sided laminating machine offering very high performance. It is very compact and fast industrial laminating machine, constructed for non-stop work. It is equipped with Heidelberg suction feeder, high speed bump separator and many options like non-sticky rollers, pallet stacker or Foiler. Due to its 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. in single side lamination or 25 m/min in double side lamination**, while performance is up to 3240/3000 sheets per hour of B3 portrait (white paper 200 gsm).



FEEDER

The FOLIANT Mercury 400 NG 4x4 is equipped with a rising pile back separation stream feeder and with Heidelberg suction feed head. 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 standard feeder is fitted with a lifting plate and its capacity is a 54 cm pile of paper.

LAMINATOR

The FOLIANT Mercury 400 NG 4x4 laminator maximum sheet size is 40 x 70 cm, extendable to 100 cm with optional XL module. The minimum sheet size is 32 x 25 cm (A4).The FOLIANT Mercury 400 NG 4x4 machine is double sided thermal industrial laminator, laminating the 115 – 600 gsm paper, with an unique „U" cross bar for perfect lamination of thin sensitive sheets.

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

- With a decurl blade for strong effect
- With a decurl roller for weaker effect and as protection for back print

The rolls of a film are mounted on shafts that allow precise film positioning by screws. Each shaft capacity is up to 3000 m of the 24 - 42 microns film. Both film holders are equipped with a trim slitter and a perforating wheel.

The laminating process is made between pair of laminating rollers for each side - a highly polished chrome roller, and a hard rubber pressure roller. Both chrome rollers are heated with a dry electric system. The warming up time is shorter than 10 minutes. The pressure is pneumatically adjustable, with an extra independent control knob for each pressure roller edge.

The machine is fitted with OMRON PLC, 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), Nylon films (24 – 35 µm) and PET films(20 – 26 µm).

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 – Integrated automatic

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

Non-sticky pressure roller (up to 2x)

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 over digital toner.

Film Micro Adjustable Air Shaft (up to 2x)

Air shaft for precise and easy film placement.

XL Module

Longer feeding table, extends maximum paper length up to 100 cm. Sheets with length over 70 cm cannot be unloaded to Integrated pallet stacker.

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`s electric circuits.



Optional Jogger



Optional Pallet Stacker



Optional Foliant Foiler

Foliant Mercury 400 NG 4x4 double			
Max Speed (single / double)	27 / 25 m / min	**Warming up Time**	8 min
Max. Performance	3240 / 3000 B3 / hour	**Temperature Control**	80 - 140°C
Feeding	Automatic	**Power Supply**	3 ph., 400 V AC, 50-60 Hz
Feeding System	Suction Head Heidelberg	**Power**	7650 W
Feeder`s Load Capacity	54 cm	**Floor space with Jogger (w x l)**	105 x 310 cm
Overlaps	Automatic, PLC Control	**Weight**	590 kg
Overlaps Accuracy	+ / - 2 mm	**Module for PET Films Processing**	Optional
Separation	Automatic, Bump Rollers	**XL Module (sheets up to 1 m)**	Optional
Paper Weight	115 - 600 gsm	**Jogger 400**	Optional
Main Rollers Pressure	Pneumatic	**Pallet Stacker (motorized)**	Optional
External Compressor	150 l / min, 6 - 8 bar	**Pallet stacker capacity**	70 cm
Min. Sheets Size (w x l)	32 x 25 cm	**Foliant Foiler**	Optional
Max. Sheets (w x l)	40 x 70 cm	**Film Loader (Electric)**	Optional
Film Micro Adjustable Air Shaft	Optional, up to 2x	**Non-sticky pressure roller**	Optional, up to 2x

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