

FOLIANT Mercury 530SF 2x2



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 [06. FOLIANT Mercury 400 SF Datasheet \(531.51 kB\)](#)

 [FOLIANT Mercury 400SF with double sided module & pallet stacker](#)

 [FOLIANT Foiler demonstration video](#)

The **FOLIANT Mercury 530 SF 2x2** is a very compact industrial laminating machine, constructed for a heavy duty single sided lamination and occasional double sided lamination too. It is equipped with an integrated suction feeder Heidelberg and a high speed bump separator. Several options are available for the Mercury machine – air shaft, 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 B2+ lamination too. **The machine maximum speed is up to 25 m/min.**, while performance is 2100 sheets per hour of B2 portrait (white paper 200 gsm, single sided lamination) or 15 m/min (1000 B2 sheets per hour, double sided lamination). The machine requires the external compressor (6 - 8 bar, 150 l / min)

Max Speed Single Sided	25 m / min.
Max Speed Double Sided	15 m / min.
Feeding	Automatic
Feeding System	Suction Feeding Head Heidelberg
Feeder's Load Capacity	54 cm
Overlaps	Automatic, PLC Control
Overlaps Accuracy	+ / - 2 mm
Separation	Automatic, Bump Rollers
Paper Weight	115 - 600 gsm

Main Rollers Pressure	Pneumatic
External Compressor	150 l / min, 6-8 bar
Min. Sheets Size (w x l)	20 x 30 cm
Max. Sheets Size (w x l)	53 x 75 cm
Max. Performance	2100 B3 / 1000 B2/hour
Warming up Time	8 min.
Temperature Control	80 - 140°C
Power Supply	3 ph., 400V AC, 50-60 Hz
Power	6000 W
Floor Space (w x l) incl. Jogger	120 x 270 cm
Weight	550 kg
Module for PET Films Processing	Standard
Jogger 530	Optional
Pallet Stacker 530	Optional integrated or regular
Pallet Stacker Capacity	70 cm
Film Loader (Electric)	Optional
Film Micro Adjustment Air Shaft	Optional
Foliant Foiler	Optional

Feeder

The FOLIANT Mercury 530 SF 2x2 is equipped with a rising pile back separation stream feeder and with a suction feed head Heidelberg. It is driven by an Omron servo motor and controlled by a machine central PLC. The built-in Becker vacuum pump is used for sheets back airing and feeding head suction cups vacuum. 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 530 SF 2x2 laminator maximum sheet size is 53 x 75 cm. The minimum sheet size is 30 x 20 cm (A4). The FOLIANT Mercury 530 SF 2x2 machine is both single sided and double 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 - 31 microns film. The film holder unit is equipped with a trim slit and a perforating wheel. For quicker job change the machine can be fitted with optional Air shaft.

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 bottom roller is heated too when performing double sided lamination with a pre heating of the film on another roller for better heat control.

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 based touch screen – no language mutation 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 the BOPP films (23 – 42 microns), Nylon films (max. 35 microns) and The PET films (max. 25 microns) too.

Options

- **Jogger 530 (Optional)***

It is an adjustable vibrating reception unit for the laminated sheets stocking. Its capacity is limited up to a 10 cm pile of sheets.

- **Integrated Pallet Stacker 530 (Optional)***

It is a device equipped with a lifting plate with a pallet, electronically controlled from the machine PLC, which loads the laminated sheets into a high pile. Its capacity is 70 cm pile of sheets.

- **Pallet Stacker 530 regular version (Optional)***

It is a device equipped a pallet trolley, pneumatically controlled from the machines PLC, which loads the laminated sheets into a high pile. Its capacity is 65cm pile of sheets.

- **Film Loader / Manipulator (Optional)**

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 electric circuits.

- **Foliant Foiler (Optional)**

Winding device that allows use of metalized film (gold, silver, red, etc.) and spot varnish film applied over print from digital printing machine.

- **Film Micro Adjustment Air Shaft (Optional)**

Standard film holder is replaced by more sophisticated air shaft that allows quicker and more precise film roll positioning. Shaft expand itselfs by pressure air and film is secured in place without additional holders.

*Important – the machine must be operated either with a Pallet Stacker or with a Jogger.

