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# FOLIANT CASTOR 530 SF

The FOLIANT Castor 530 SF is a high speed compact industrial laminating machine, constructed for a heavy duty, with a suction feeder and a high speed bump separator, with a walk-in service section and an optional pallet feeder, a pallet stacker and a film loader. **The machine maximum speed is up to 55 m/min.**, while the maximum performance is 4600 sheets per hour of B2 portrait (white paper 200 gsm).



## FEEDER

The FOLIANT Castor 530 SF is equipped with a rising pile back separation stream feeder with a 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 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 55 cm pile of paper.

## LAMINATOR

The FOLIANT Castor 530 SF laminator maximum sheet size is 53 x 75 cm. The minimum sheet size is 32 x 25 cm (A4). The FOLIANT Castor 530 SF machine is a single sided thermal industrial laminator, laminating the paper 115 – 600 gsm, with an unique „U“ cross bar for thin sheets flat and safety high pressure lamination, mounted in the front of the main laminating rollers, with an „In run“ adjustable de-curl bar. The roll of a film is mounted on an air shaft that allows very convenient, easy and precise film positioning. The shaft capacity is up to 3000 m of the 24 - 42 microns film. The film holder unit is equipped with a trim splitter 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 4 contact electric heaters inside the roller, with a sensitive in-roll temperature sensor. The pressure is pneumatically adjustable, with an extra independent control knob for each roller edge.

The pressure of pulling rollers is controlled with a pneumatic control knob. There is a service „walk-in“ section between the machine laminating rollers and the pulling rollers for an easy machine maintenance and rollers cleaning.

The machine is fitted with OMRON Programmable Logic Controllers, which control all machines' functions. Used PLC system includes many automation items for the machine easy control and 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 530\*

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

### FOLIANT FOILER

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

### PALLET STACKER\*

It is a device equipped with a pallet trolley, pneumatically controlled from the machine PLC, which loads the laminated sheets into a high pile. Its capacity is 65 cm pile of sheets. It is based on a manual scissors lift table (hydraulic) and sensors for its pneumatic control. The pallet can be manipulated either from the operator's side (it saves the manipulation space) or from behind.

### PALLET FEEDER

It is fitted with a pallet holder and adaptor for a full pallet of paper. Its capacity is 65 cm paper pile. The pallet can be manipulated from the front and it requires another space for the manipulation.

### 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.

### ANTI-STATIC BAR

Pair of ionization bars that remove static charge from laminated paper.

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



*Optional Pallet Feeder*



*Optional Pallet Stacker*

#### Foliant Castor 530 SF

|                                 |                         |  |                           |
|---------------------------------|-------------------------|--|---------------------------|
| <b>Max Speed</b>                | 55 m / min              | <b>Film Micro Adjustable Air Shaft</b> | Standard                  |
| <b>Max. Performance</b>         | 4600 B2 / hour          | <b>Warming up Time</b>                 | 10 min                    |
| <b>Feeding</b>                  | Automatic               | <b>Temperature Control</b>             | 80 - 140°C                |
| <b>Feeding System</b>           | Suction Feeder          | <b>Power Supply</b>                    | 3 ph., 400 V AC, 50-60 Hz |
| <b>Feeder's Load Capacity</b>   | 55 cm                   | <b>Power</b>                           | 9650 W                    |
| <b>Overlaps</b>                 | Automatic, PLC Control  | <b>Floor space with Jogger (w x l)</b> | 135 x 370 cm              |
| <b>Overlaps Accuracy</b>        | + / - 2 mm              | <b>Weight</b>                          | 825 kg                    |
| <b>Separation</b>               | Automatic, Bump Rollers | <b>Non-sticky pressure roller</b>      | Optional                  |
| <b>Paper Weight</b>             | 115 - 600 gsm           | <b>Pallet Feeder</b>                   | Optional, 65 cm capacity  |
| <b>Main Rollers Pressure</b>    | Pneumatic               | <b>Jogger 530</b>                      | Optional                  |
| <b>External Compressor</b>      | 200 l / min, 6 - 8 bar  | <b>Pallet Stacker</b>                  | Optional, 65 cm capacity  |
| <b>Min. Sheets Size (w x l)</b> | 32 x 25 cm              | <b>Foliant Foiler</b>                  | Optional                  |
| <b>Max. Sheets (w x l)</b>      | 53 x 75 cm              | <b>Film Loader (Electric)</b>          | Optional                  |