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FOLIANT CASTOR 530 NG

The FOLIANT Castor 530 NG is a high speed compact industrial laminating machine, constructed for a heavy duty 3 shift works, 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 NG 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 NG laminator maximum sheet size is 53 x 75 cm. The minimum sheet size is 32 x 25 cm (A4). The FOLIANT Castor 530 NG 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 (SCISSOR LIFT)*

Piling device with 65cm capacity on scissor lift. Automatically controlled down, manual control up.

PALLET STACKER (MOTORIZED)*

Piling device with 75cm capacity. Fully motorized movement up and down and full enclosure for safe operation.

HOT KNIFE SEPARATOR

Knife heated to 300°C used for separation of sheets. The sheets are left without the film remains and can be inserted into printing machine without trouble.

FILM LOADER/MANIPULATOR

It is an external independent electric lift with a film core adaptor for loading heavy rolls of film (max. capacity 125 kg). Battery operated.

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