Innovative
engineering for..EXCELLENCE...

PELICAN

Sololam-Plus

SOLVENT-LESS LAMINATION MACHINE

400 mpm

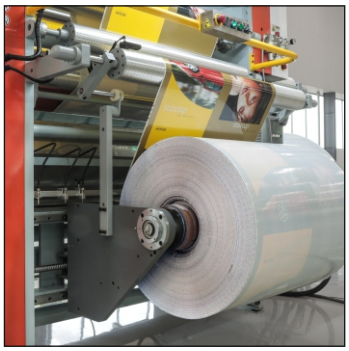
The machine

The New Generation Sololam-Plus solventless lamination epitomizes a seamless integration of state-of-the-art electronics and ergonomically designed mechanical components. This combination results in a maximum performance and productivity, specifically tailored to run wide range of material, with maximum conversion cost.

It is the ideal solution for converters seeking flexibility to meet today's versatile job application demands with fast turnaround time and high consistent quality at lover conversion cost.

STANDARD TECHNICAL SPECIFICATION	
• Machine Speed	350 m/min & 400 m/min
• Maximum Web-Width	1130 mm & 1330 mm
• Maximum Laminating Width	1115 mm & 1315 mm
• Maximum Reel diameter Unwinder & Rewinder	1000 mm
• Maximum Reel Weight Unwinder & Rewinder	1000 kgs
• Core Diamerer for Unwinder	3" (76mm) & 6" (152mm)
• Core Diameter for Rewinder	6" (152mm)

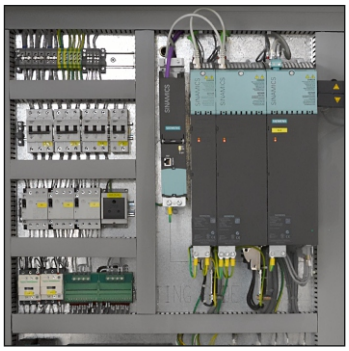
Precise tension controller | Perfect adhesive distribution | Operator friendly & ergonomic design | High productivity | Design for maximum safety



Shaft-less Unwinders & Rewind Group

Shaft-less unwinders & rewind units enable quick and easy reel loading & unloading. Unwinders & rewind web tension controlled by using latest generation servo motor and servo drive. The system maintains the set tension precisely throughout the reel run. The system mainly composed of AC servo drive and servo motor, pneumatically loaded low friction dancing roller assembly and load cell for tension feed-back and actual tension display.

The unwinders & rewind arms move on high precision linear guide ways with linear bearing block.



Control system

Servo based closed loop controller for web handling by using latest generation of electronics. Entire machine operation is controlled and supervises by high performance motion controller having its own intelligent software. Ensuring precise tension control and web handling throughout the reel run for coating & laminating process.

Control panel consists of touch screen operating interface facilitates ease in operation. Safety of operator, machine and electronic modules are achieved with the help of necessary hardware protection and intelligent software routines.

Adhesive Metering System.

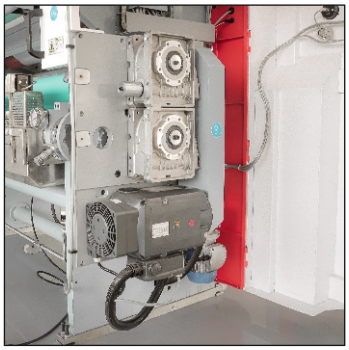
Automatic dosing of adhesive by single component mixer (optional) and Bi-component mixer ensuring smooth dosing.

Three individual temperature controllers i.e. one for dosing rollers (R1 & R2), one for applicator (coating roller) R4 and one for laminating nip roller ensuring high speed lamination with a wide range of substrates.

Coating unit

Adhesive applicator zone comprises multi roller transfer system, (1) R1 roller and (2) R2 roller are metering Roller. (3) R3 Transfer Rubber Roller (4) R4 is Applicator Roller and (5) R5 is rubber covered Pressure Roller, through the high precision machining and high quality engineering resulted more uniform and accurate coating across the width of the web.

R1 & R2 roller specially designed, jacketed type, high precision grounded chrome-plated steel rollers, heating through water/oil A micro-metric device used to control the gap between the R1 & R2 rollers. This gap allows initial adjustment of adhesive's amount need to transfer. The gap can be adjusted considering viscosity or type of adhesive used on the machine.



The R1 roll, not driven at time of production but can be rotate manually if required.

The R2 & R3 rolls, driven by common AC servo motor & gear box and controlled through a servo drive. The speed of the R2 & R3 is proportionate to machine speed and can be vary to control the amount of adhesive to apply.

R4 roller Transfers adhesive from the roller R3, to the substrate to laminate. It is made of chrome-plated steel, jacketed type ensures uniform heating across the roller face length.

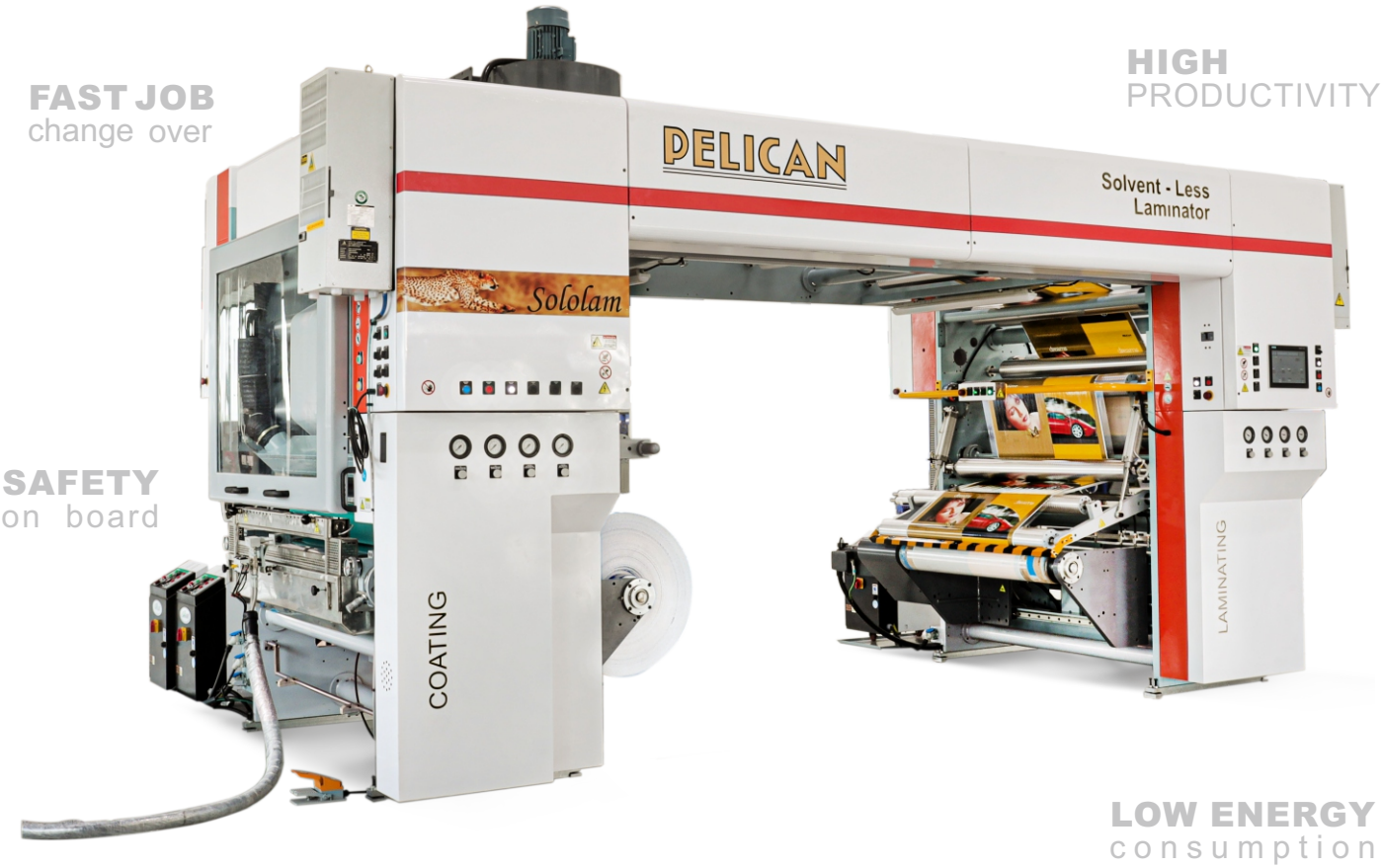
R5 roller made of steel & covered with hard rubber, presses the R4 roll by two pneumatic cylinders, so that it guarantees precise transfer of adhesive to the web across the width.

Three roll Laminating Unit

High quality & perfect lamination is guaranteed by a three roll system ensuring a small rubber contact area and a large angle of incoming material from coating unit.

The Steel back-up roller is press against the rubber roller for a total parallelism and to avoid any rubber roller flexion. The laminator steel roll is driven by an independent motor synchronized with the applicator unit motor by load cells, so the tension on the web carrying the adhesive to the point of lamination can be controlled with great precision.

Chill roll after laminators unit provided for immediate cooling before rewinding.



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