

By perfectly integrating the new generation of electronics and ergonomically designed mechanical components, the machine is made to deliver optimum performance and productivity.



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Servo Motor



Web Guide



Three Roller
Lamination Nip



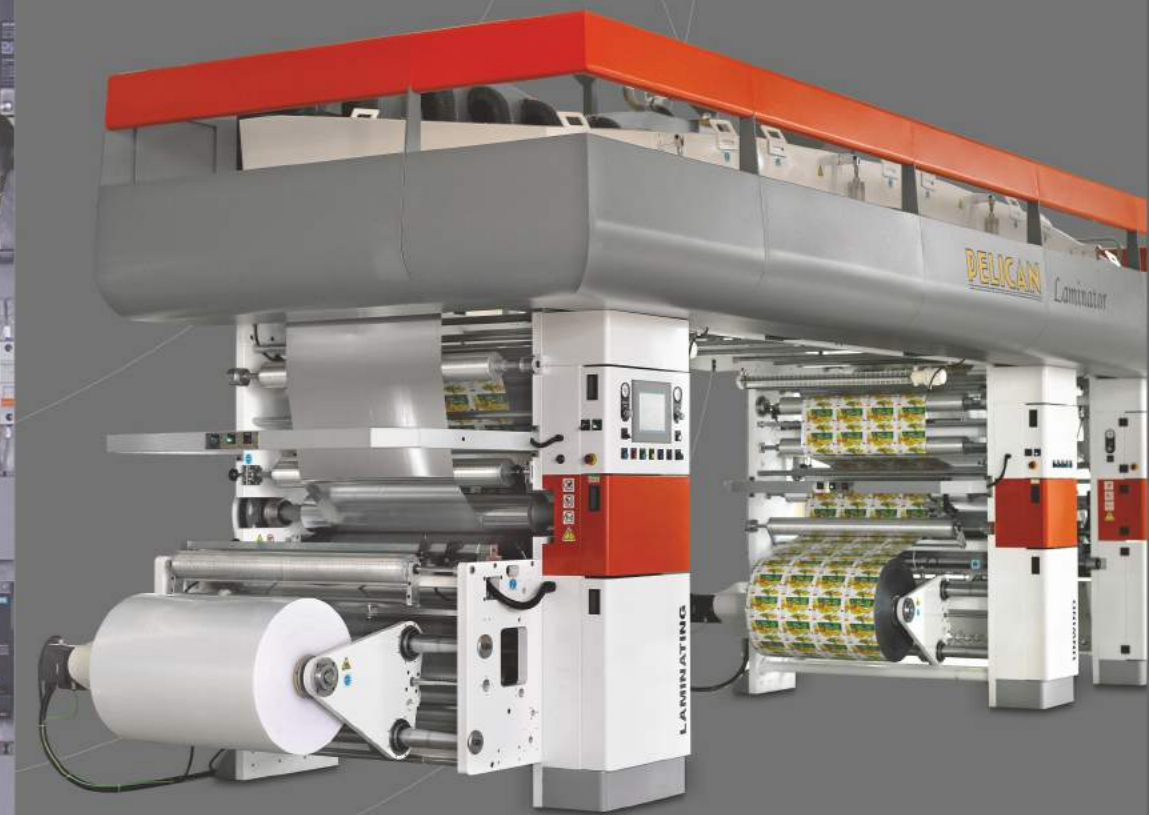
Ventilation Module



Chill Roll



Solvent - Base
Laminator



Sololam SB

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The machine

Created to cover the growing needs of solvent-based lamination on flexible packaging market. Enhanced performance, on one hand, and the easy operating features on the other, are the main reasons to select this machine, joined with its ability to handle a wide range of laminating jobs. The machine has been specially designed, focusing on various jobs on solvent-based applications over plastic films.

By perfectly integration of the new generation of electronics and ergonomically designed mechanical components, the machine is made to deliver optimum performance and productivity.



Control system

Servo based closed loop controller for web handling by using latest generation of electronics. Entire machine operation is controlled and supervised by high performance motion controller having its own intelligent software.

Master operator 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.



Doctor Blade Group

Specially designed doctor blade group ensures a straight profile of the blade resulting in lesser blade pressure, better coating quality and longer cylinder life.

Idle Roller

Specially designed, low friction-low inertia, dynamically balanced idle rollers, mounted on low friction bearings to enhance rotational smoothness. Properly grooved, ground and balanced the rollers are made of specially graded anti-corrosion aluminum alloy.



Frame Structure

Distinctively designed and precisely machined, strong and sturdy, steel frame structure, with stiffening tie-rods; maintains accuracy over long dependable life and ensures less vibration even with optimum line speed. The structure enhances illumination of the working area.

The mechanical construction of each component, which undergoes extensive tests, ensures optimum performance and longer equipment life.



Drying System

Drying is obtained by blowing hot air on the web through air nozzles. The optimized airflow minimizes heat consumption and avoids solvent retention in the laminated substrates.

Thermic fluid base insulated long drying chamber having four separate zones which consists of two AC frequency drive controlled blower, thermic fluid heat exchanger, auto temperature controller, air transport duct etc.

Four zones pneumatically openable drying chamber for web threading and cleaning.



Shaft-less Unwinders & Rewind Group

Shaft-less unwind & 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 unwind & rewind arms move on high precision linear bushings and supported on ground chrome-plated steel bars.



Exhaust System

High efficient exhaust system composed of AC frequency drive controlled heavy-duty centrifugal fans to collect solvent contaminated air from the entire drying chamber through ducts/piping fitted with manual adjustable damper.

Chill Roll

Chrome plated chill roller facilitates water circulation to maintain desired surface temperature of the roller. Synchronous pulley and belt provides transmission to the chill roller.



Coating Unit

Coating unit is transmitted by an AC servo motor through a gear box. Speed can be set by means of push buttons and monitored on the display (touch screen or HMI). The AC servo drive maintains set speed.

Pneumatic Ink Pump

Double diaphragm type pump with flow adjusting valve, SS made re-circulation tank with filter of a standard capacity, hoses provided with quick unions for connection to the adhesive tray.

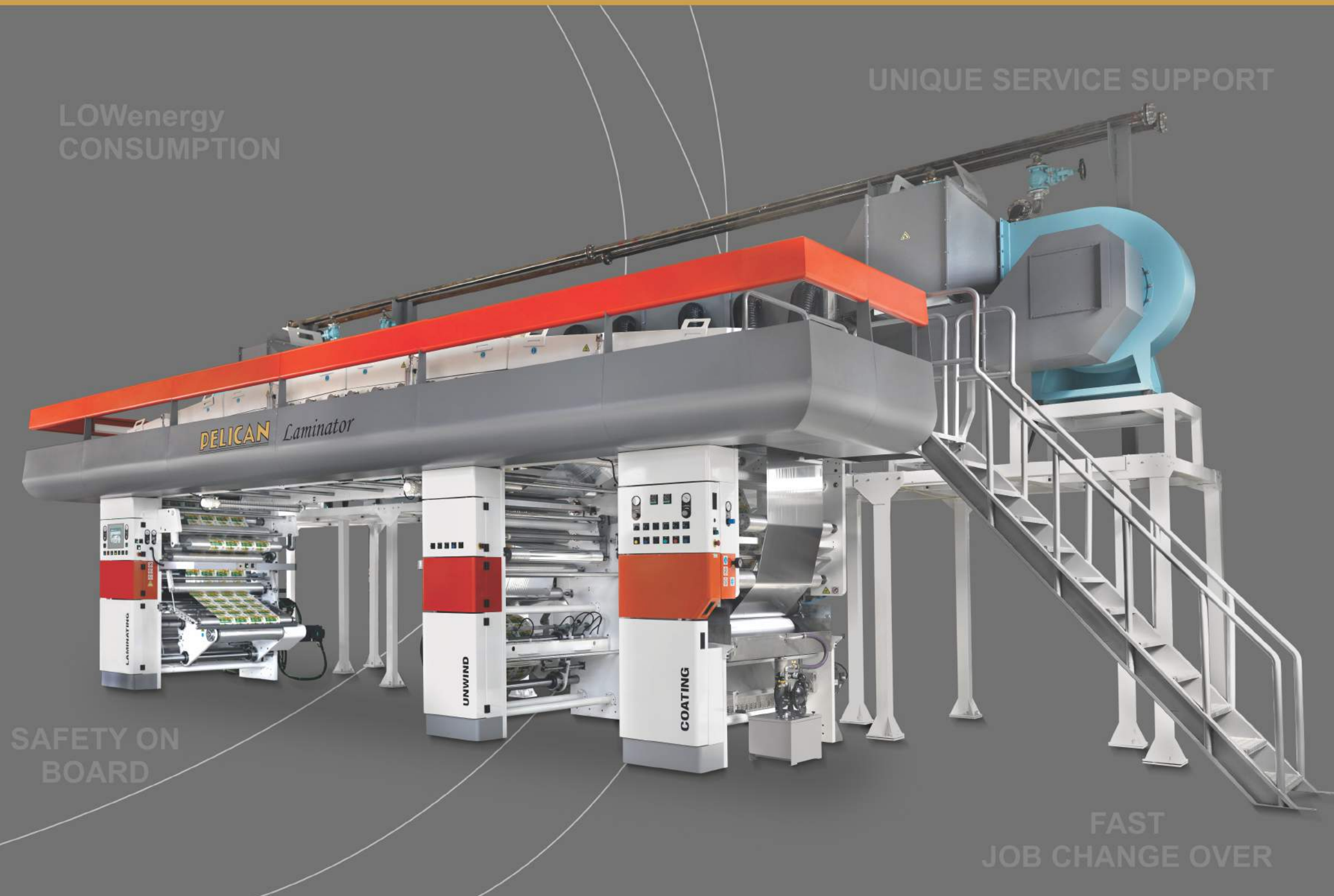


Laminating Unit

The laminator unit comprises a heated chrome plated, ground steel roll, a rider roll, coated with hard rubber & chrome plated steel back-up roller which is driven by pneumatic pistons which can be adjusted at both ends. The steel back-up roller is pressed 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. Uniform tension on the web carrying the adhesive to the point of lamination can be controlled with great precision.

Solvent - Base Laminator



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