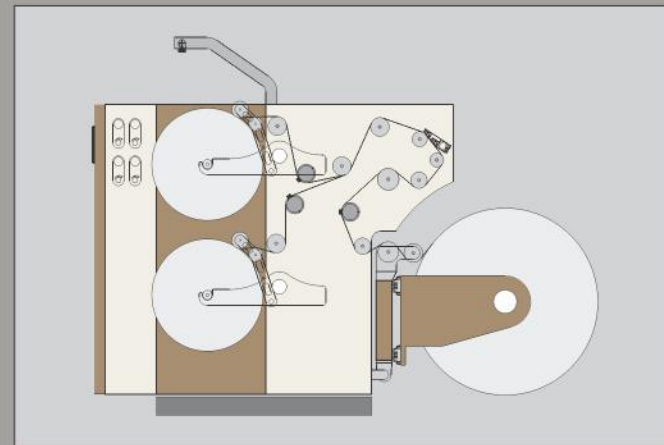


WEB CONFIGURATION



Integral Unwind



DELICAN

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Servo driven
slitter rewriter
Differential winding technology

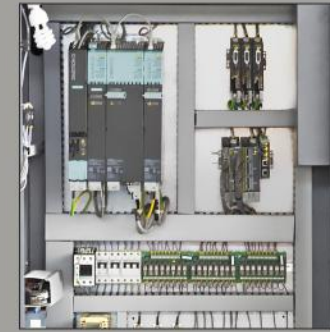


Soloslit slitter rewriter

Innovative
engineering at..EXCELLENCE...

The machine

Pelican is introducing winding technology with perfect integration of new generation of electronics and ergonomically designed operating system.



Control System

Entire machine is controlled and supervised by high performance motion controller. The 'ETHERNET / IP BASED COMMUNICATION SYSTEM' for machine automation maintains tight synchronization between controller and drives, providing fast, reliable, and errorless communication. Master control panel consists touch screen operator interface located at rewind side.

Minimum Wastage level and minimum dependency on labor due to increased automation and easy operating system.



Draw Unit

By using latest generation AC servo drive and servo motor, draw roller with pneumatically loaded rubber covered nip, maintain set speed precisely. The draw unit pulls the substrate from unwind and simultaneously isolates the web tension between unwind and rewind.

Draw unit mainly composed of AC servo motor and drive, matt chromium plated steel roller and pneumatically loaded rubber covered nip roller.



Frame Structure

Distinctively designed and precisely machined, strong and sturdy, steel frame structure, with stiffening tie-rods; maintains accuracy over long dependable life and by perfectly integrating new generation of electronics. The machine is built to produce high quality finished products efficiently and handles more or less all substrate range.



Rewind (closed loop) Tension control

High performance differential winding shaft and through the use of load-cell feed-back of "close the loop" on rewind tension control.

The system allows the operator to enter the desired finished reel tension with required taper tension according to the nature of substrates. The system maintains the desired tension automatically.

The system consists of AC servo drive, servo motor, load-cells for feed-back, ultrasonic sensor etc.



'Integral' and Shaft-less Unwinder

Unwinder with hydraulic operated reel lifting system consists of two solid arms mounted on precision linear guide ways, which allows lateral displacement for web aligner. This arm assembly is mounted on a hydraulic operated pivoting steel structure for pickup of the parent reel from the floor level to working position. Mechanical self expanding chuck suitable for 76mm and 152mm cores are provided.

This compact design ensures shorter web length within the machine and also occupies minimal floor space providing a more economic slitting solution.



Differential Winding System

High performance differential winding system utilizing 'Ball lock' units, ensures constant tension regardless of different width of the reel being rewound on the same shaft. Normal web profile variation is automatically compensated by the differential winding system. It also increases productivity and minimizes 'downtime.'



Unwind Tension Control

Automatic web tension control is provided through a "closed loop" system on the shaft-less unwinder. The system consists of latest generation AC servo drive, servo motor and load-cell. The system maintains tension precisely through out the reel run up to the core diameter.



Static Eliminators (Optional)

Static Eliminating bars are positioned between Pull-Nip and Rewinders to discharge static charge generated before winding.



Idle Rollers

Cork coated, dynamically balanced, specially designed low friction, low inertia idle rollers made of Aluminum alloy, mounted on low friction bearings, enhance rotational smoothness.



Lay-on Rollers

Each rewinder is equipped with pneumatically loaded lay-on assembly with contact pressure controls consists of rubber covered aluminum rollers, backing rollers mounted on arms over linear guide ways.

The linear displacement of the arms allow desired positioning of lay-on and also provide ease to replace different widths of rubber rollers.

Slit Reel Unloading Stand (Optional)

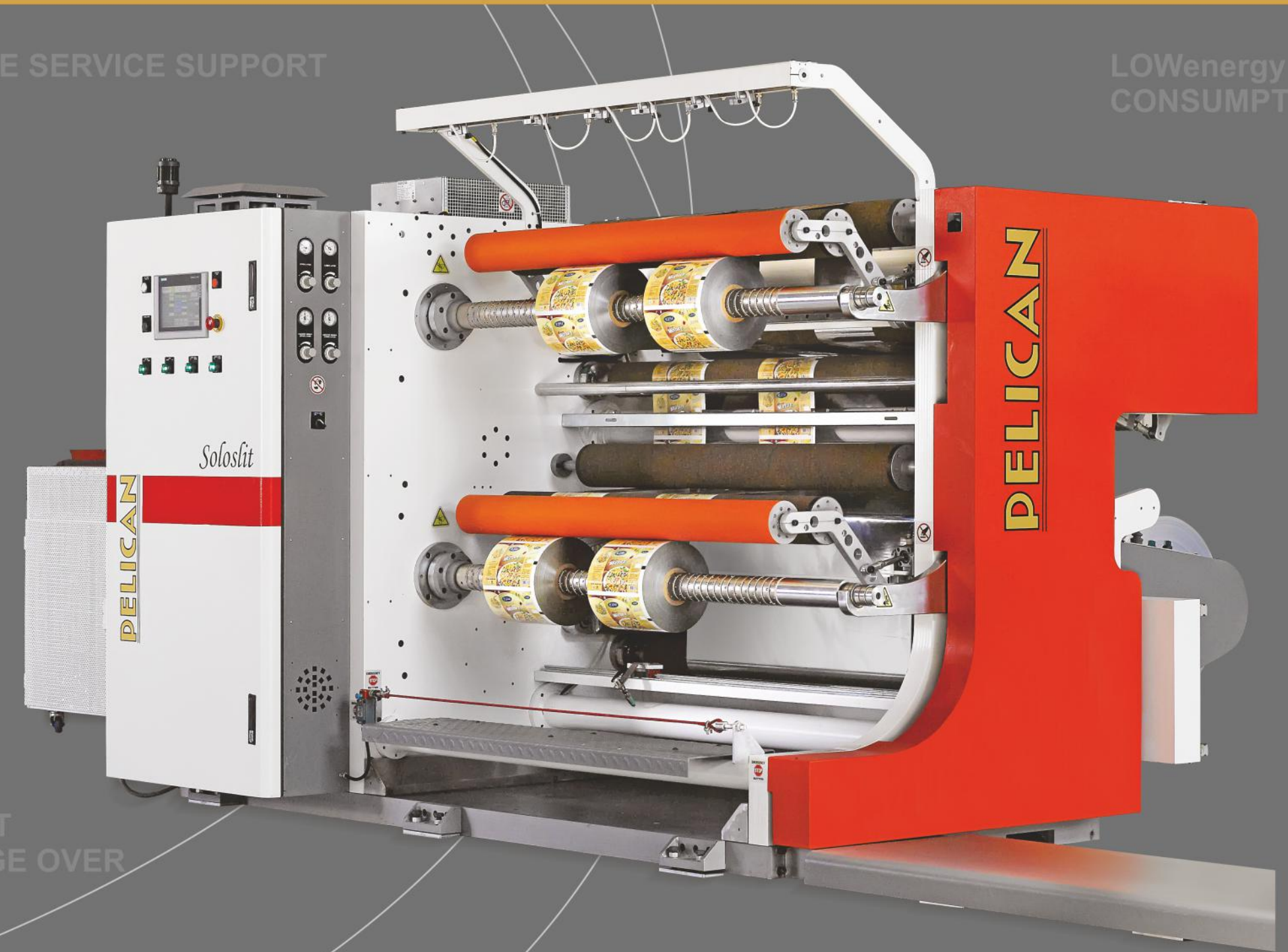
Pneumatically operated semi automatic rotating unloading arms facilitate quick unloading of the slit reels from differential shafts to unloading stand. The unloading stand provides support to cantilevered differential shafts during unloading operation.

Servo driven slitter rewinder

Differential winding technology

UNIQUE SERVICE SUPPORT

LOWenergy
CONSUMPTION



FAST
JOB CHANGE OVER

SAFETY ON
BOARD

Soloslit slitter rewinder