Innovative
engineering for..EXCELLENCE...

PELICAN

Soloslit

SLITTER MACHINE

600 mpm

The machine

Our new-generation Soloslit Slitter is a reliable solution designed to enhance slitting performance. The Soloslit is designed for converters looking for automation to meet demanding production needs, offering flexibility, efficiency, and ease of operation, with a production speed of up to 600m/min. Its integrated design optimizes floor space, ensuring a compact footprint.

STANDARD TECHNICAL SPECIFICATION	
• Machine Speed	600 m/min
• Maximum Web-Width	1300 mm
• Maximum Reel diameter and weight on unwind	1000 mm / 800 kgs
• Maximum Rewind Roll Diameter	Ø600 mm
• Core Diameter	3" & 6" both option

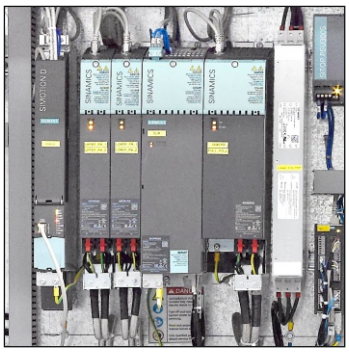
Closed loop tension control on Rewinder

Low Energy consumption

Operator friendly & ergonomic design

High productivity

Wide range of substrates



MACHINE CONTROL SYSTEM

Common DC bus system for power sharing between various drive stations ensures low energy consumptions.

Advance customize automation provides optimal performance of the machine with end to end consistency.

User friendly operator interface touch screen on Rewinder and Push button on Unwinder side. Recipe system for storing all working parameters.

Designed considering safety of human and control.

Featured with online service support using remote connectivity.

SLITTING SYSTEM

The new ergonomic designed slitting section provides a fast and convenient change from knife cutter to the rotary cutter or vice versa. It is optimized to be versatile to mount with all three slitting operations on board, i.e.,

1. Cut to air using a razor knife

2. Cut to groove using a razor knife

3. Rotary cutter (Optional)

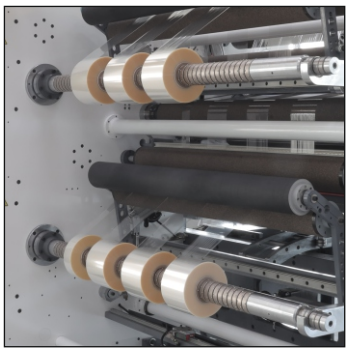
(Operator does not require to offload any slitting assembly)

CLOSED LOOP REWIND TENSION CONTROL

The closed loop rewind tension control using load-cell for actual tension feed-back, coupled with high performance differential winding shaft. Results the optimum level of actual tension control over the rewinding process.

Equipped with Load cells to measure the actual tension and dynamic responsive control with the desire set tension, taper tension setting and current roll diameter. Tension control system automatically adjusts the air pressure to the rewind shafts. Performs well with wide range of substrates including tension sensitive substrate.

Differential winding system utilizing high tech roll or ball lock units, ensures consistant and precise winding tension regardless of different width of the reel being rewound on the same shaft.



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'.

Web Guiding System

Digital web guiding system maintains precision alignment of the web entering the draw unit. The web is guided by edge or printed (continuous or broken) lines provides an accurate positioning of web. The system consists of true color line sensor and PMDC motor etc.

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.

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.

Static Eliminators

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

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