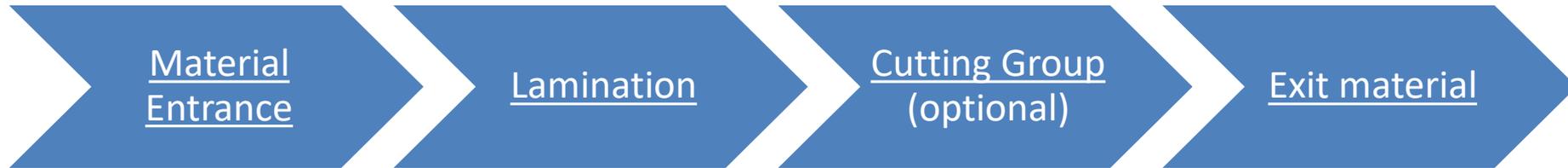


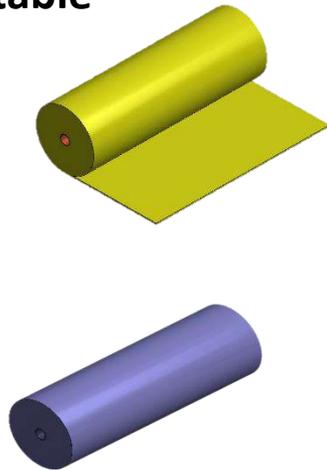
KK1 DS LC 2 REW

Laminator workflow

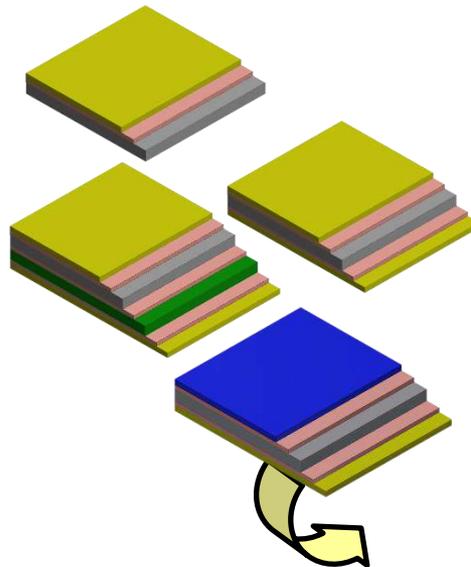
Application Notes



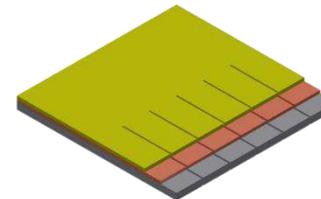
- **Entrance**
 - Free roller table
- **Unwinder**
- **Tilting Entrance table**



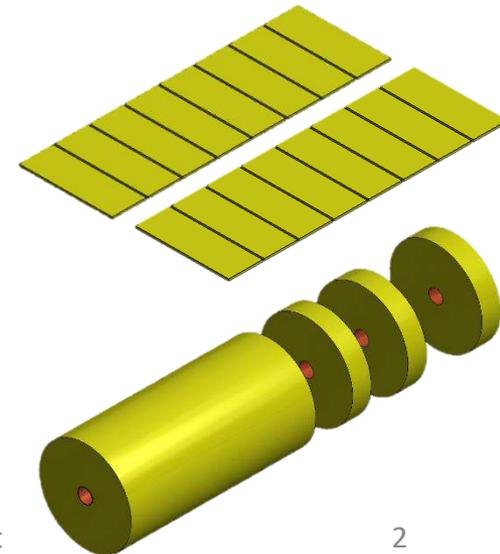
- **Single/Double Layer**



- **Lengthwise cut**
 - Crush Cut



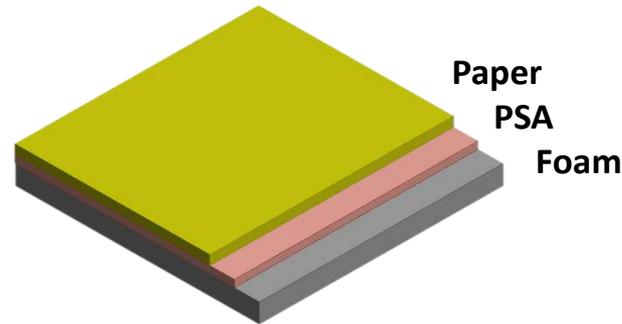
- **Rewinders**
- **Unwinder for liner**
- **Liner remover**



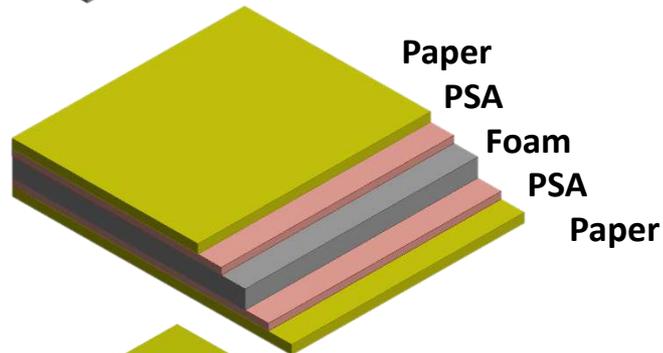
Laminator workflow

Application Notes

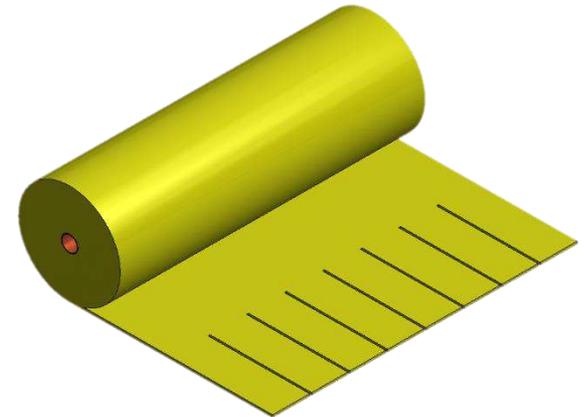
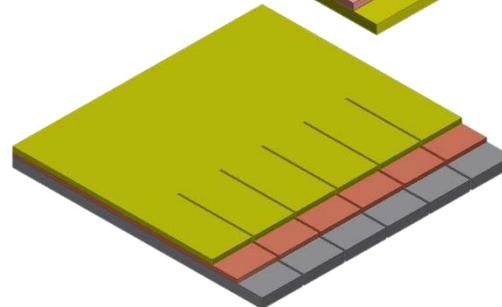
Single-layer material



Double-layer material



Longitudinal Cut (LC)



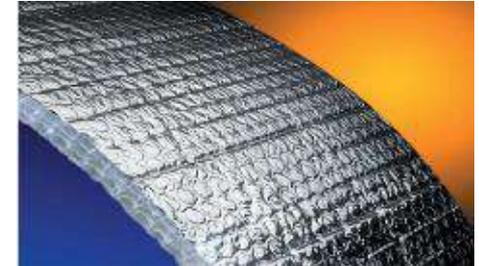
Laminator workflow

Business sector/Applications Tips

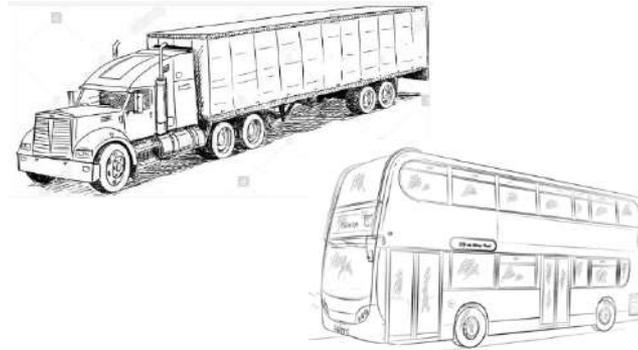


AUTOMOTIVE

Acoustic and Thermal insulated panels
Interiors
Gasket and Technical Parts



**TRUCK/BUS
FLOORING/ROOFING**
Carpeting for flooring and
roofing sheets,
in automotive, truck,
building, aerospace.



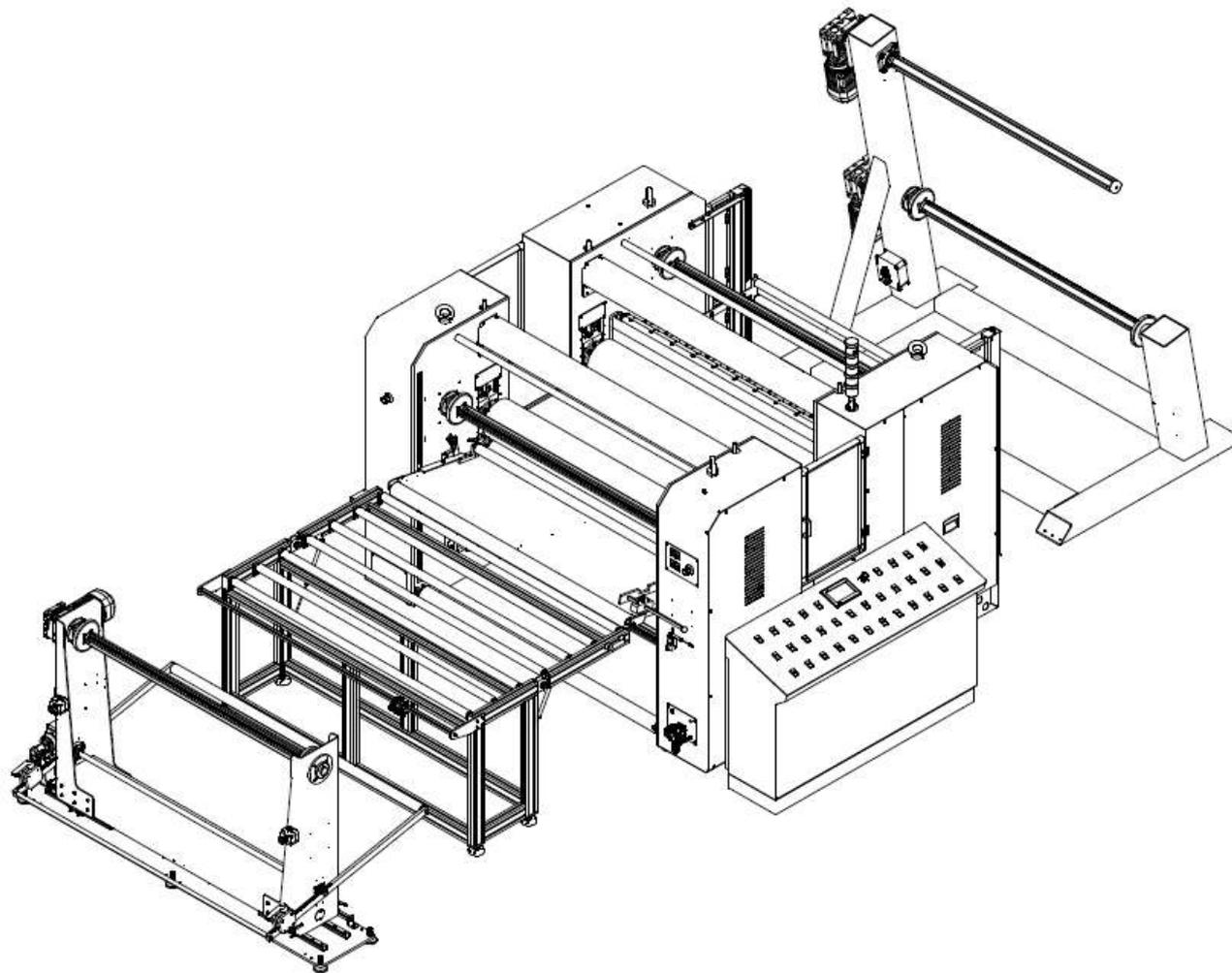
INSULATION
Acoustic and Thermal,
for automotive,
aerospace, buildings

AREOSPACE

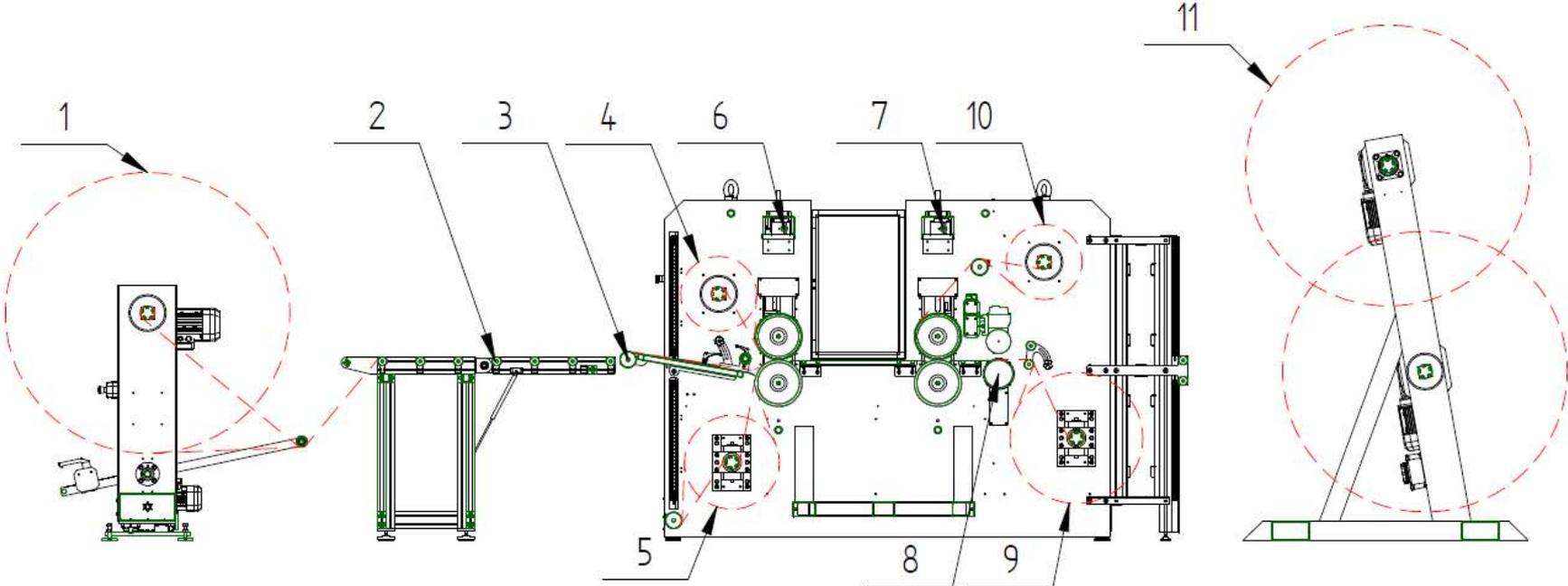
Acoustic and Thermal insulated panels
Interiors and Technical parts



Preliminary Layout



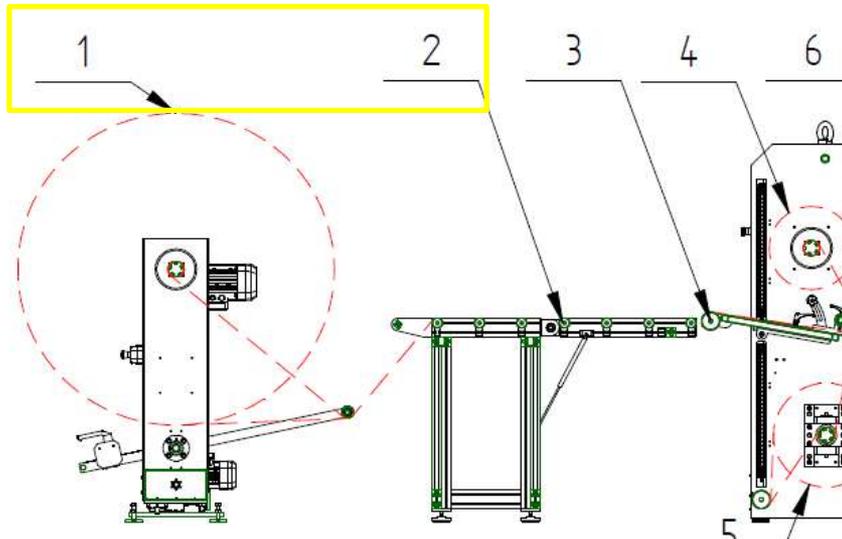
Preliminary Layout



Laminator Configuration

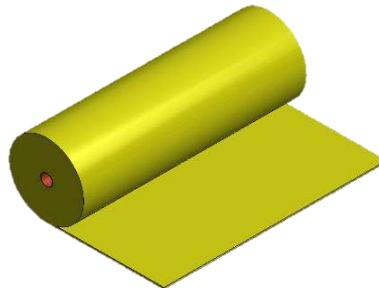
External Unwinder

Layout position # 1 & 2



Material

Width	1600 mm
ID	76 mm
OD	1200 mm
Weight	500 Kgs



Unwinder features

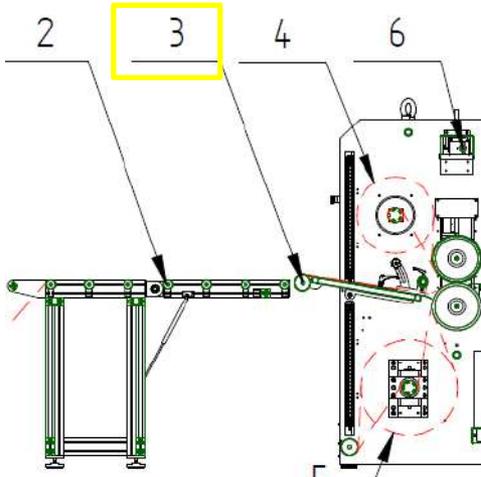
Roll holder shaft	Air expanding shaft, 76 mm
Roll check	Checked by AC motor + inverter
Safety supports	Two safety supports
Loop Control	By Dancer bar
Web guide	Automatic, ± 50 mm slide stroke
Free roller feeding table, with tilting section to help indexing	



Laminator Configuration

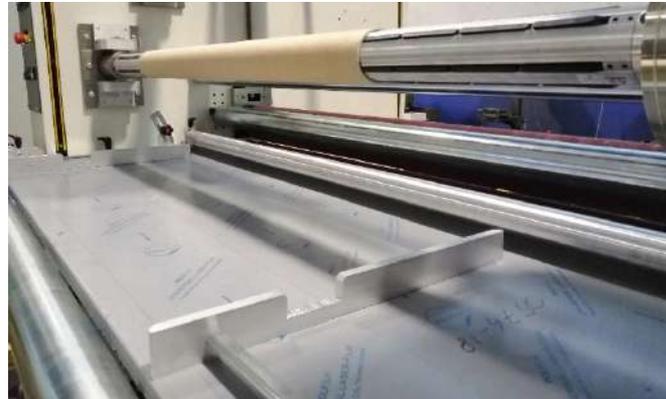
Entrance Table

Layout position #3



Entrance table features

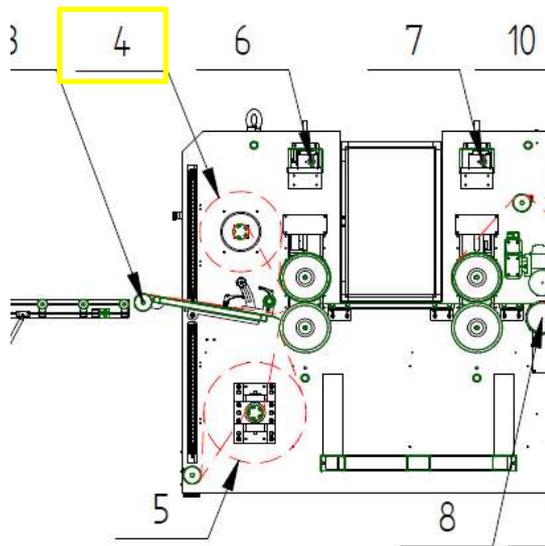
- Adjustable inclination to check the «curling» effect
- Fixing support with C-guides and bearings
- Adjustable lateral guides for material
- Free roller with adjustable height for liner removing
- Free rollers system to spread the material



Laminator Configuration

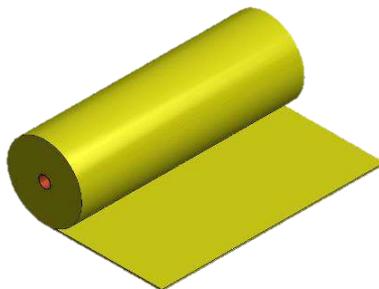
Adhesive/Foil Unwinder

Layout position # 4



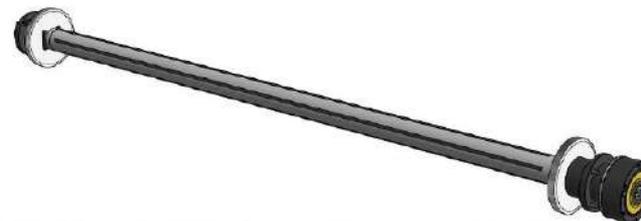
Material

Width	1600 mm
ID	76 mm
OD	400 mm
Weight	100 Kgs



Unwinder features

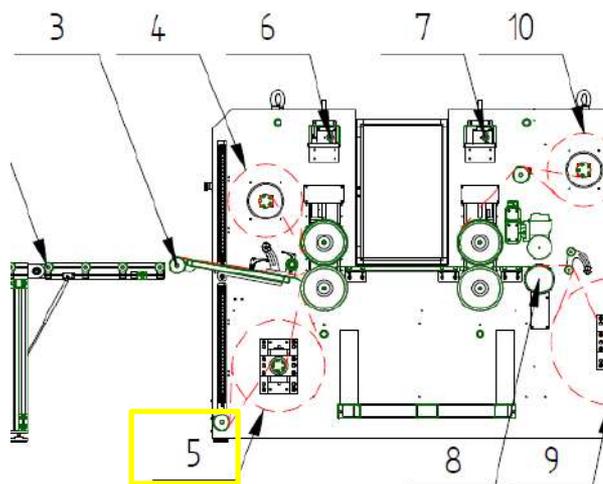
Checked by	EMG Brake
Roll holder shaft	Air expanding shaft, 76 mm
Roll check	Brake by Touch Screen
Safety supports	Two safety supports



Laminator Configuration

Adhesive/Foil Unwinder

Layout position # 5



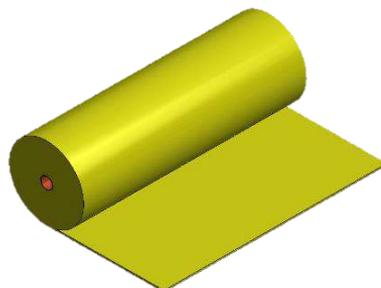
Unwinder features

Checked by	EMG Brake
Roll holder shaft	Air expanding shaft, 76 mm
Roll check	Brake by Touch Screen
Safety supports	One articulation + one safety support



Material

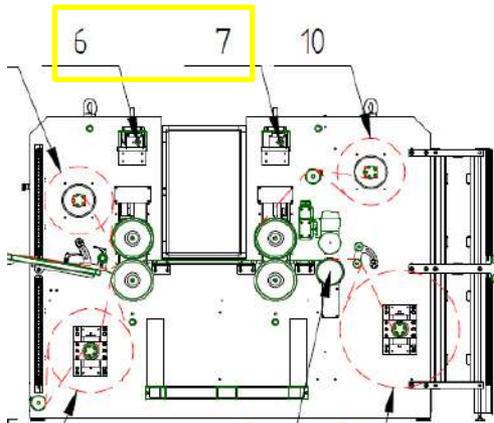
Width	1600 mm
ID	76 mm
OD	500 mm
Weight	70 Kgs



Laminator Configuration

Lamination Calender

Layout position # 6 & 7



Upper nip roller features

Checked by	Brushless motor, adjustable speed
Rollers features	Ø 250mm Silicone covered
Heating system	Resistance/Canlde
Working Temp	Adjustable up to 90°C (195°F)
Gap control	Powered and checked by PLC
Gap Display	Touch screen display
Max Work speed	Adjustable up to 25 mts/min

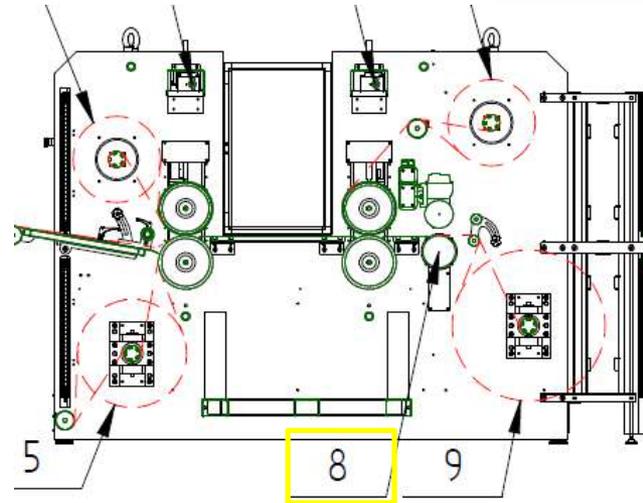
Lower nip roller features

Checked by	Brushless motor, adjustable speed
Rollers features	Ø 250mm Steel Roller
Heating system	Resistance/Canlde
Working Temp	Adjustable up to 90°C (195°F)
Max Work speed	Adjustable up to 25 mts/min

Laminator Configuration

Score-cut Slitting Unit

Layout position # 8



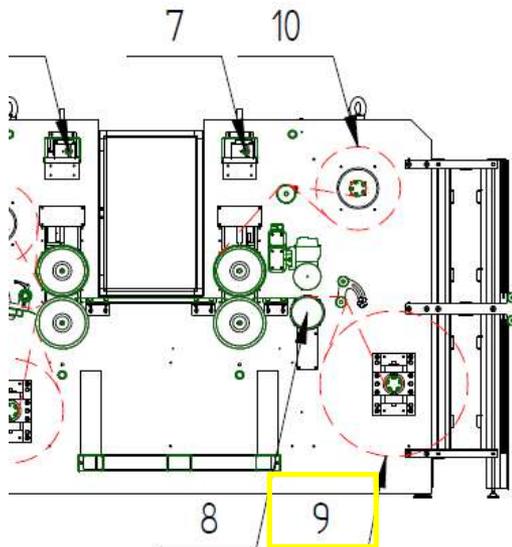
Slitting features

Knives	Circular Knives
Cutting system	Pressure on powered steel countershaft
Blade Positioning	Manual with ruler guide
Knives control	Pneumatic
Min cutting width	25 mm
Thickness	10 mm
Opening	25 mm

Laminator Configuration

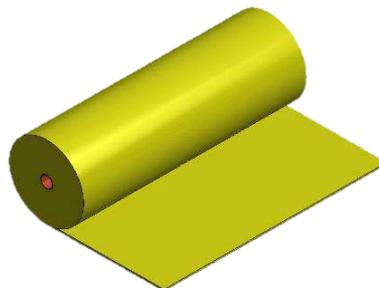
Final Rewinder

Layout position # 9



Material

Width	1600 mm
ID	76 mm
OD	700 mm
Weight	100 Kgs



Rewinder features

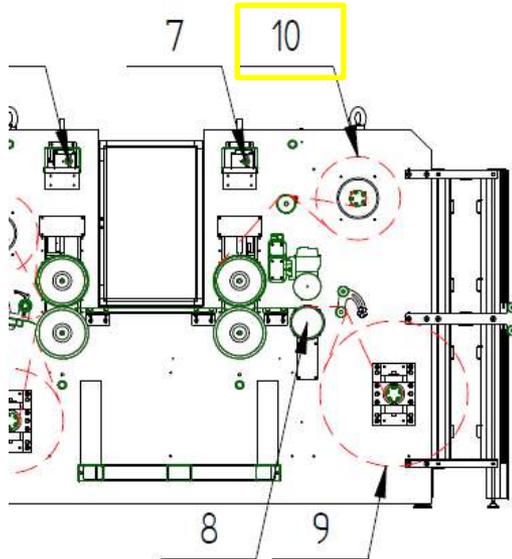
Checked by	Brushless Motor
Roll holder shaft	Air expanding shaft, 76 mm
Tension Control	Torque electronic control
Safety supports	One Articulation + One Fast Safety Supports



Laminator Configuration

Double Function Axis: Rewinder & Unwinder

Layout position # 10



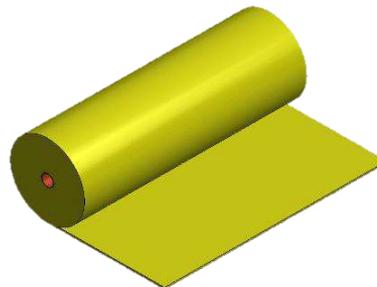
Rewinder features

Checked by	Brushless Motor
Roll holder shaft	Air expanding shaft, 76 mm
Double Function	Unwinder for new liner
Safety supports	Two Fast Locking Safety Supports



Material

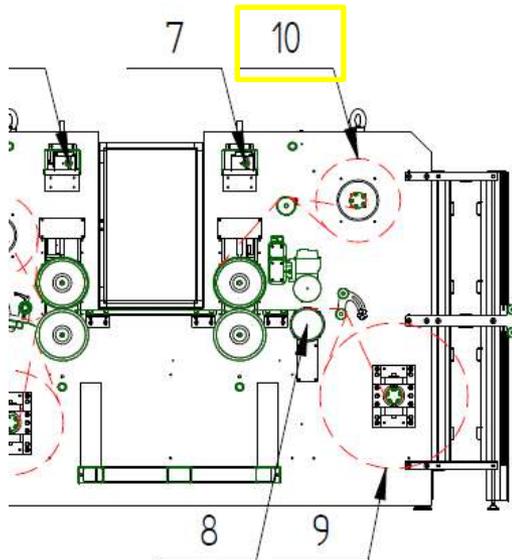
Width	1600 mm
ID	76 mm
OD	400 mm
Weight	100 Kgs



Laminator Configuration

Liner remover

Layout position # 10



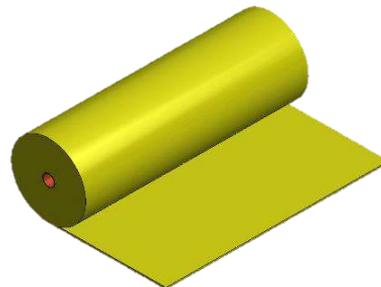
Rewinder features

Checked by	Brushless Motor
Roll holder shaft	Air expanding shaft, 76 mm
Tension Control	Torque electronic control
Double Function	Liner rewinder
Safety supports	Two safety Support



Material

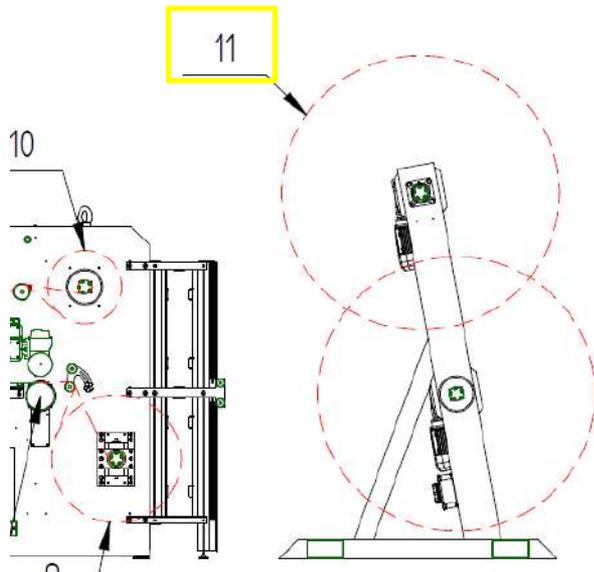
Width	1600 mm
ID	76 mm
OD	400 mm
Weight	100 Kgs



Laminator Configuration

External Rewinder

Layout position # 11

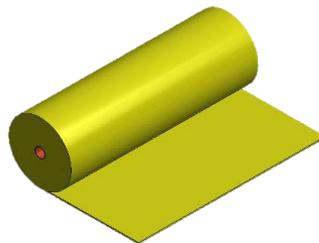


Rewiner features

Checked by	AC Motor
Roll holder shaft	Air expanding shaft, 76 mm
Tension Control	Torque electronic control
Safety supports Low	Two Fast Locking Safety Supports
Safety supports Up	Cantilever
Configurations	Double Axes

Material

Width	1600 mm
ID	76 mm
OD	Single roll 1500 mm Double rolls 1000 mm
Weight	100 Kgs



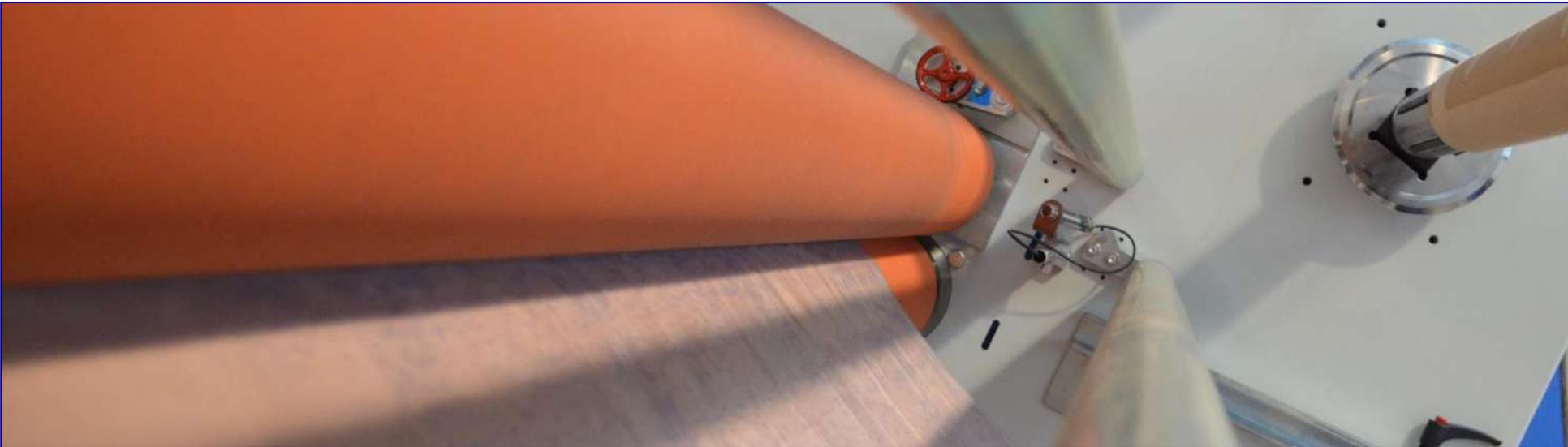
Laminator Configuration

Safety device and Panel Control



Rewiner features

Norms Standard	EC/UL norms Machine, observing to machines Directive 2006 /42/EC ANNEX II/A and following modifications
Safety Devices	Light signals, emergency buttons, photocell barriers or laser scanner safety barriers
Control Panel	PLC and Touch screen interface with external pulpit for panel control
Other Options	Embedded electronic counter of meters
	Start and Stop foot pedal / Automatic & Manual Working Cycle



Thank you for your attention