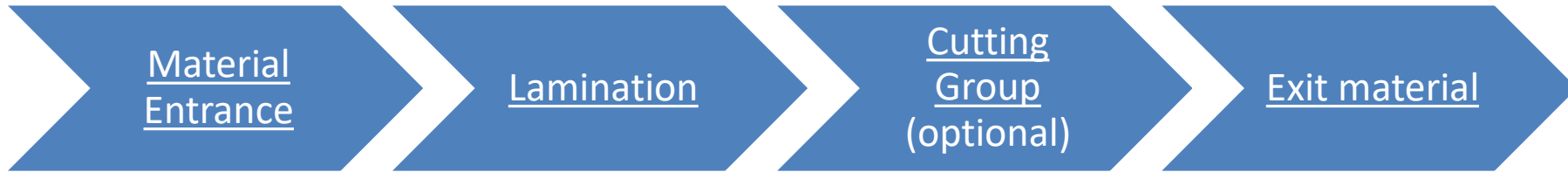


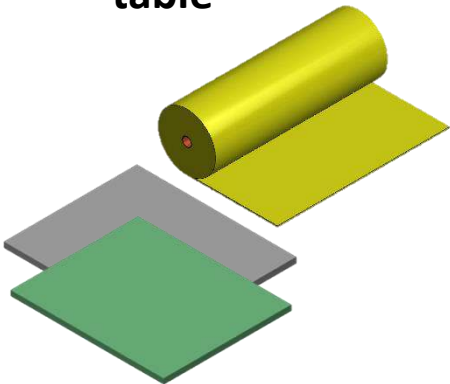
# KK1 DS LC Pre-cut

# Laminator workflow

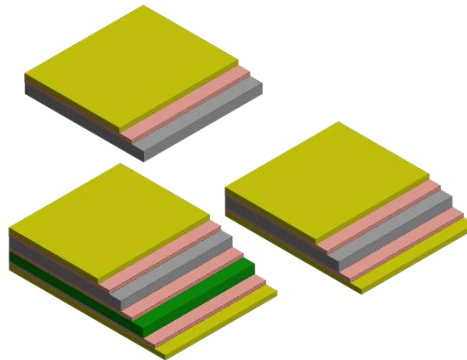
## Application Notes



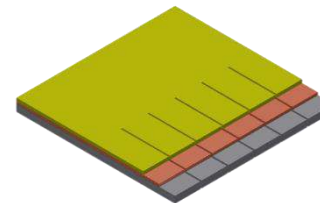
- **Entrance**
  - table
- **Unwinder**
- **Removable feeding table**



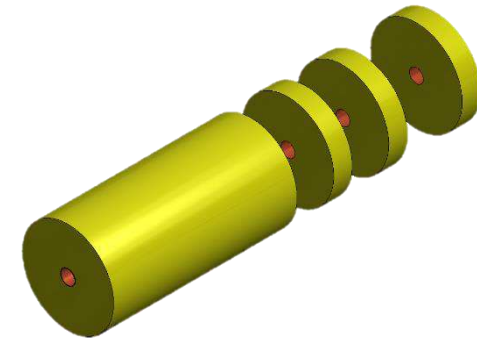
- **Single/Double Layer**



- **Lengthwise cut**
  - Crush Cut



- **Exit**
- **Rewinder**



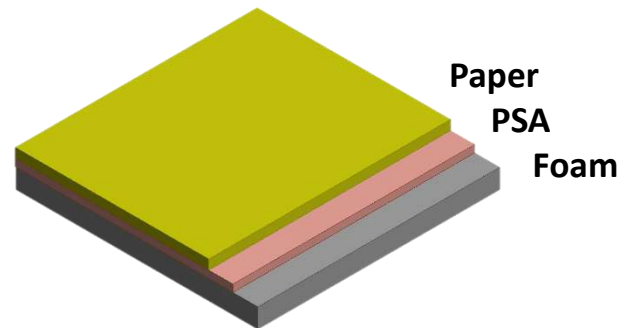
# Laminator workflow

## Application Notes

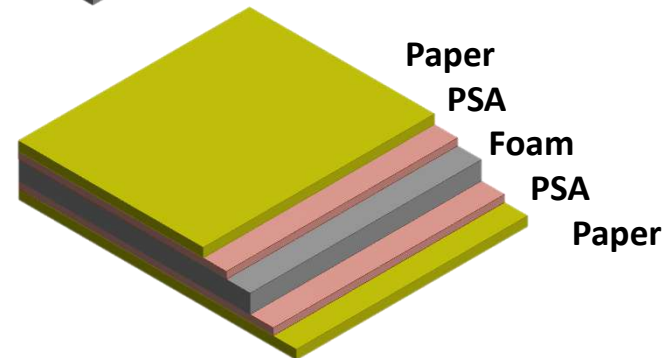
---



### **Single**-layer material



### **Double**-layer material

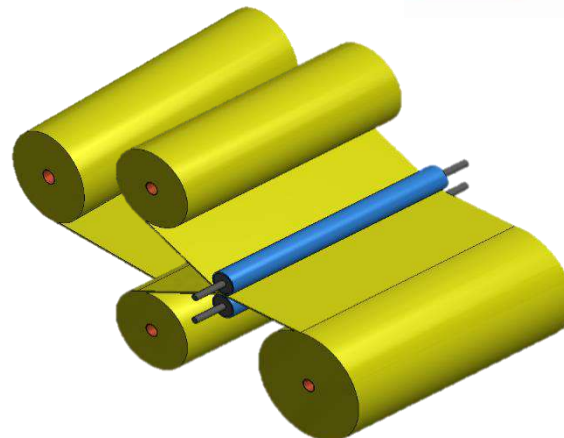
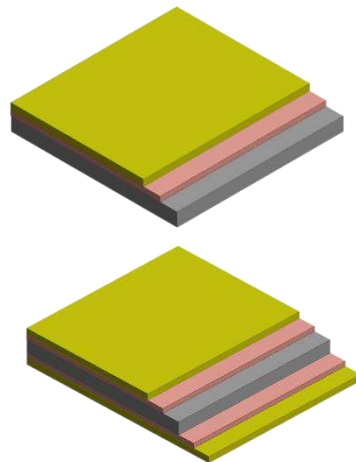


# Laminator workflow

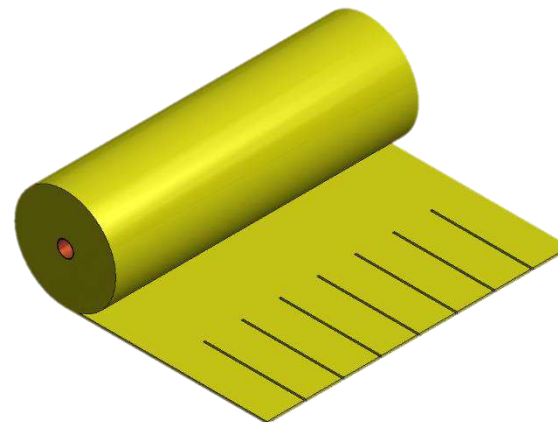
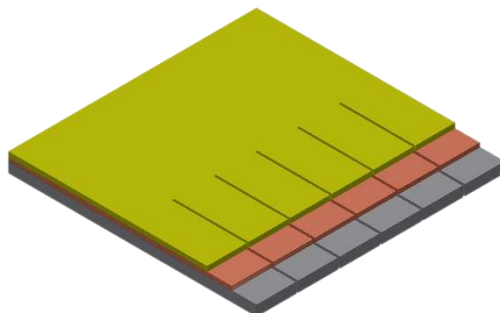
## Application Notes



**Single-Double** layer  
material



Longitudinal Cut  
(LC)



# Laminator workflow

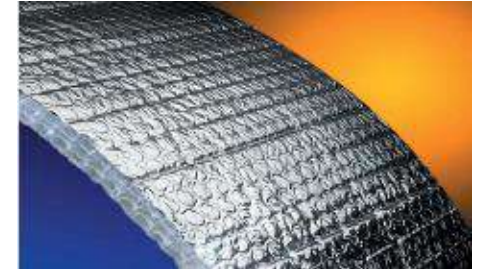
## Business sector/Applications Tips

---

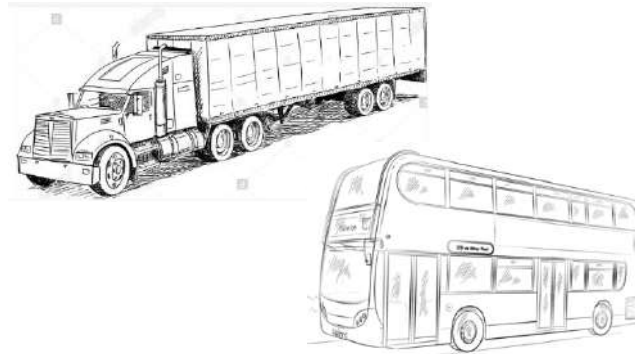


### **AUTOMOTIVE**

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.



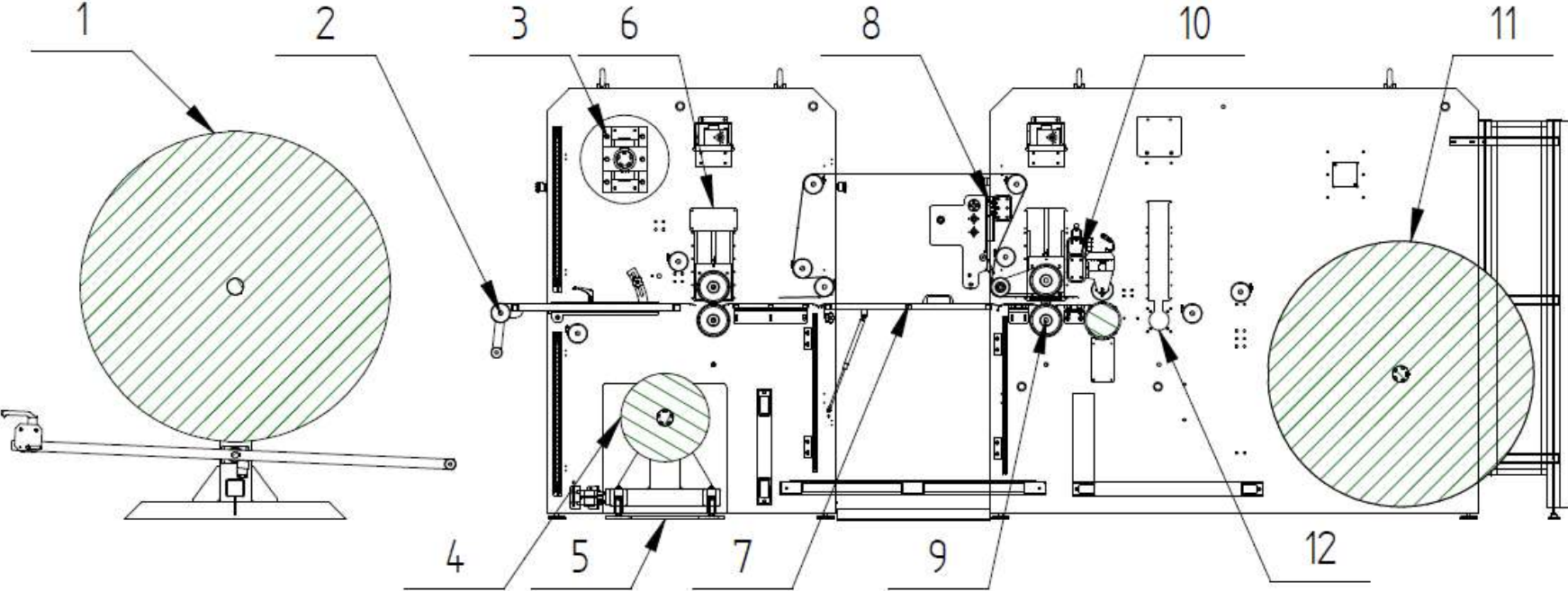
**INSULATION**  
Acoustic and Thermal,  
for automotive,  
aerospace, buildings

### **AREOSPACE**

Acoustic and Thermal insulated panels  
Interiors and Technical parts



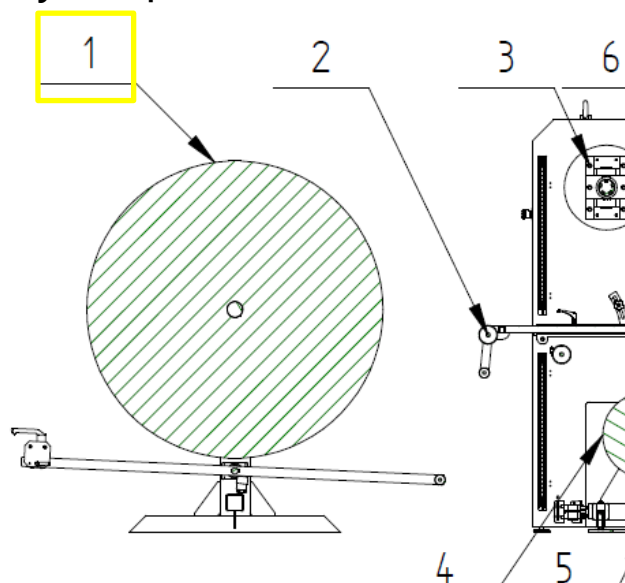
# Preliminary Layout



# Laminator Configuration

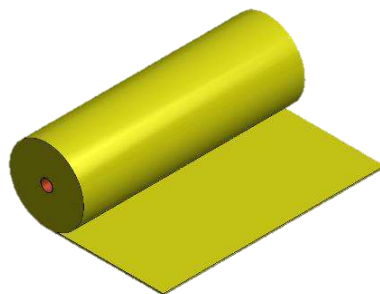
## External Unwinder

### Layout position # 1



#### Material

Width	1600 mm
ID	76 mm
OD	1400 mm
Weight	500 Kgs



#### Unwinder features

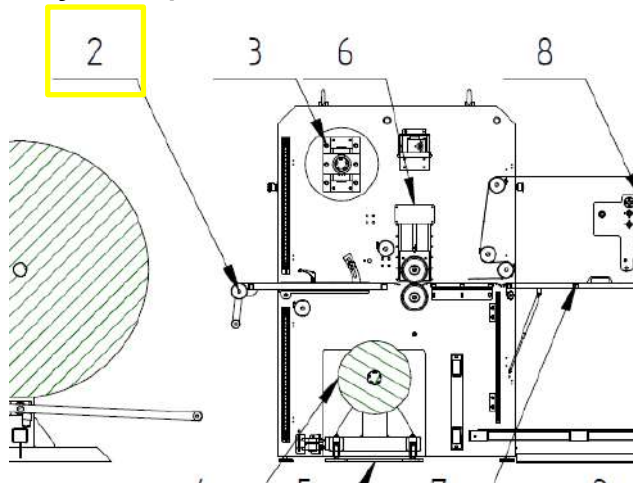
Roll holder shaft	Air expanding shaft, 76 mm
Roll check	Powered AC Motor
Safety supports	Two safety supports
Loop Control	By Dancer bar
Web guide	No



# Laminator Configuration

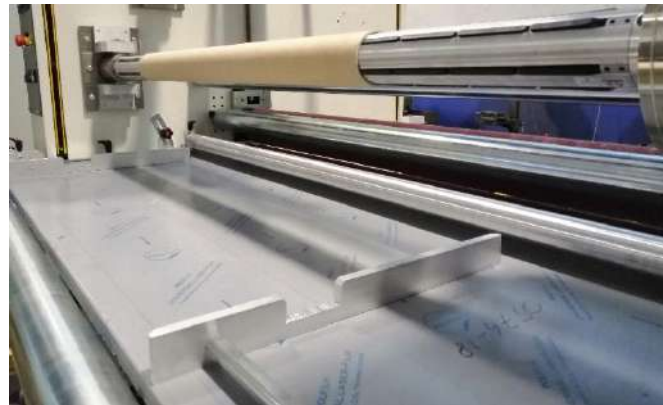
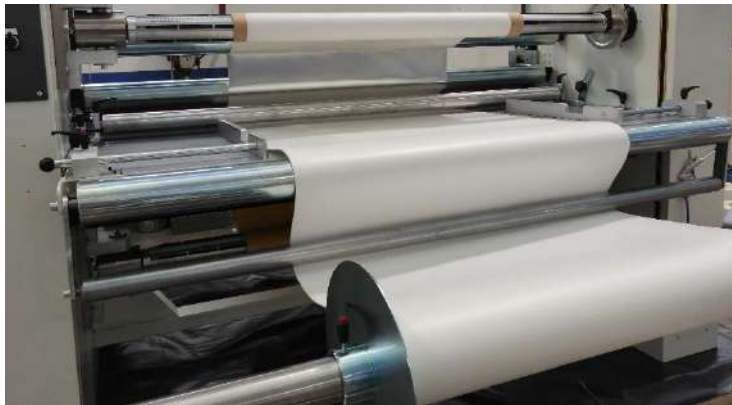
## Entrance Table

### Layout position # 2



#### 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

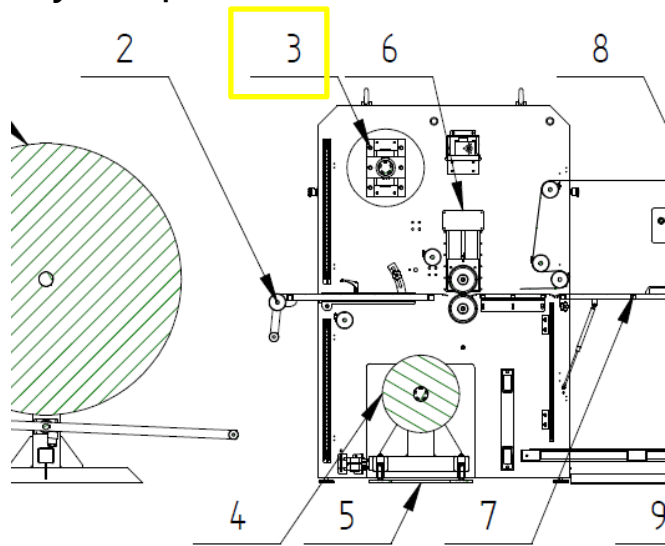




# Laminator Configuration

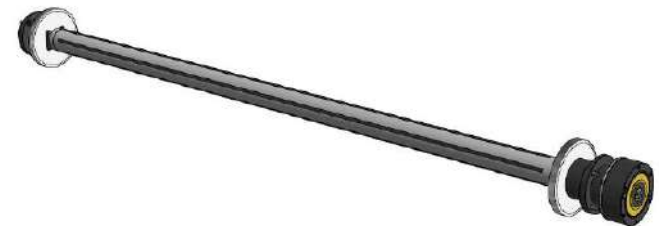
## Adhesive/Foil Unwinder

Layout position # 3 & 4



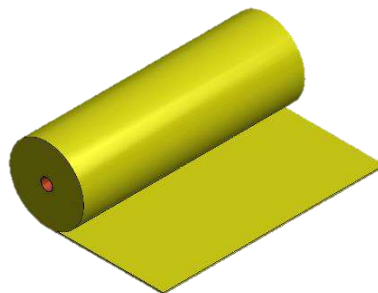
### Unwinder features

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



### Material

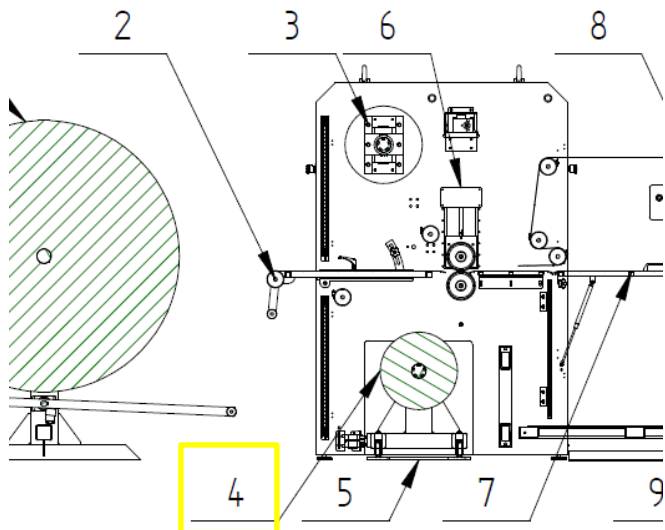
Width	1600 mm
ID	76 mm
OD	400 mm
Weight	70 Kgs



# Laminator Configuration

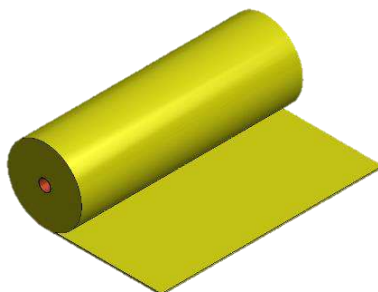
## Adhesive/Foil Unwinder

### Layout position # 3 & 4



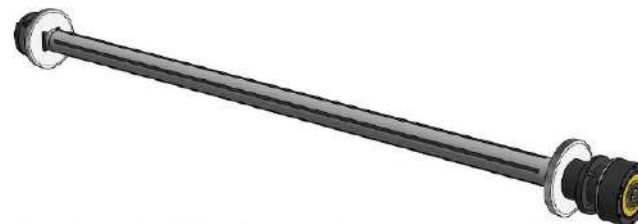
#### Material

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



#### Unwinder features

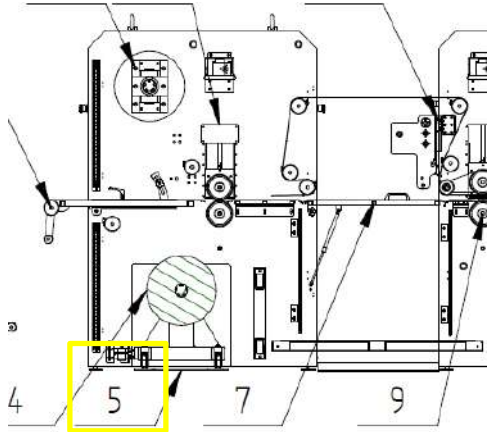
Checked by	EMG Brake
Roll holder shaft	Air expanding shaft, 76 mm
Roll check	Brake by Touch Screen
Safety supports	Two safety supports



# Laminator Configuration

## Loading Trolley

Layout position # 5



### Trolley features

Sliding system

Rail system

Locking system

Pneumatic stopper

Electronic connection

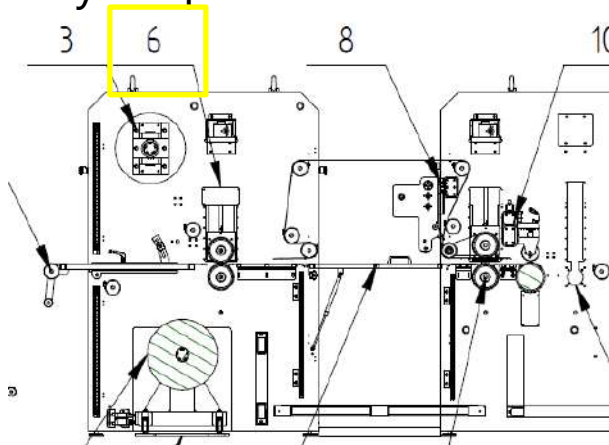
Fast connector



# Laminator Configuration

## Lamination Calender

### Layout position # 6



#### Upper nip roller features

Checked by	Free roller
Rollers features	Silicone covered
Heating system	Resistance/Canlde
Working Temp	Adjustable up to 90°C ( 195°F)
Gap control	Manual by handwheel
Gap Display	Mechanical display

#### Lower nip roller features

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

# Laminator Configuration

## Tilting Table

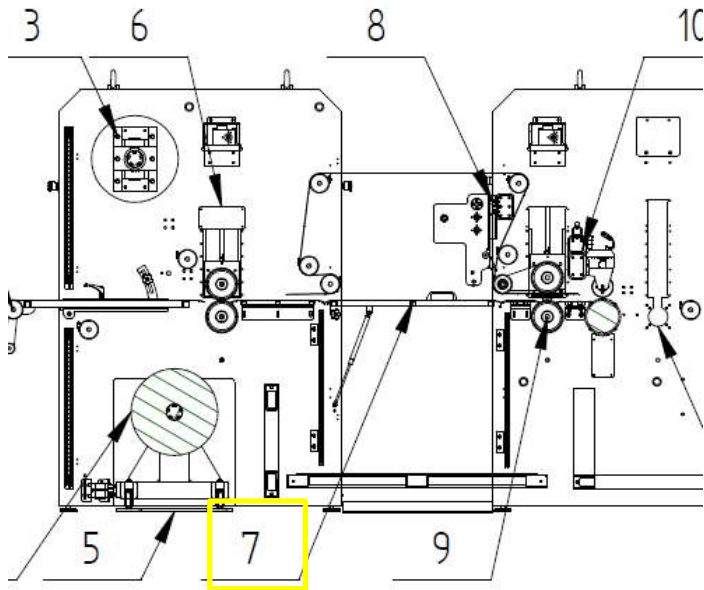
Layout position #

### Features

It allows the operator to easy check, index the material or carry out the blade positioning

Titlting table complete of supporting pneumatic pistons

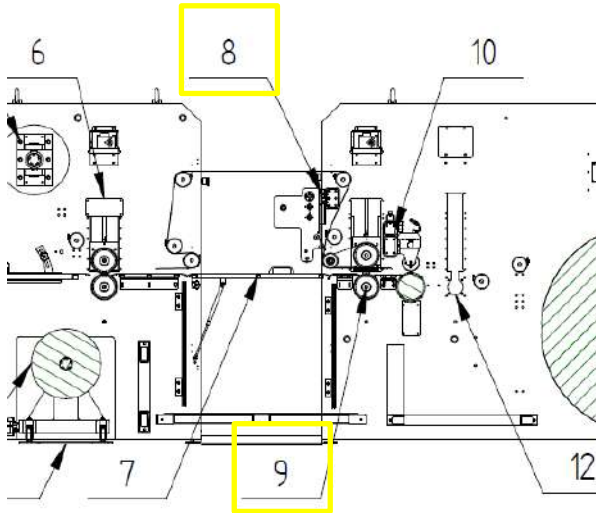
Provided with Safety Microswitches



# Laminator Configuration

## Pre-cut Liner Device

Layout position # 8 & 9

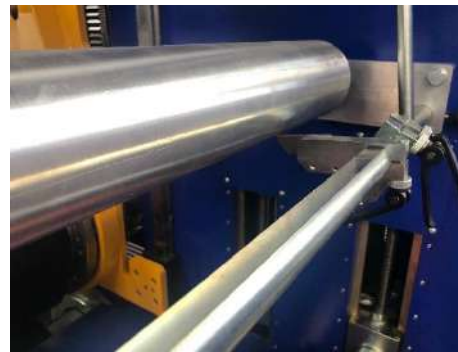


### Pre-cut liner device features

Lifter roller system for the liner separation, composed of one lifting free roller and one still free roller guide

Razor cutter bench, with manual positioning of the cutters

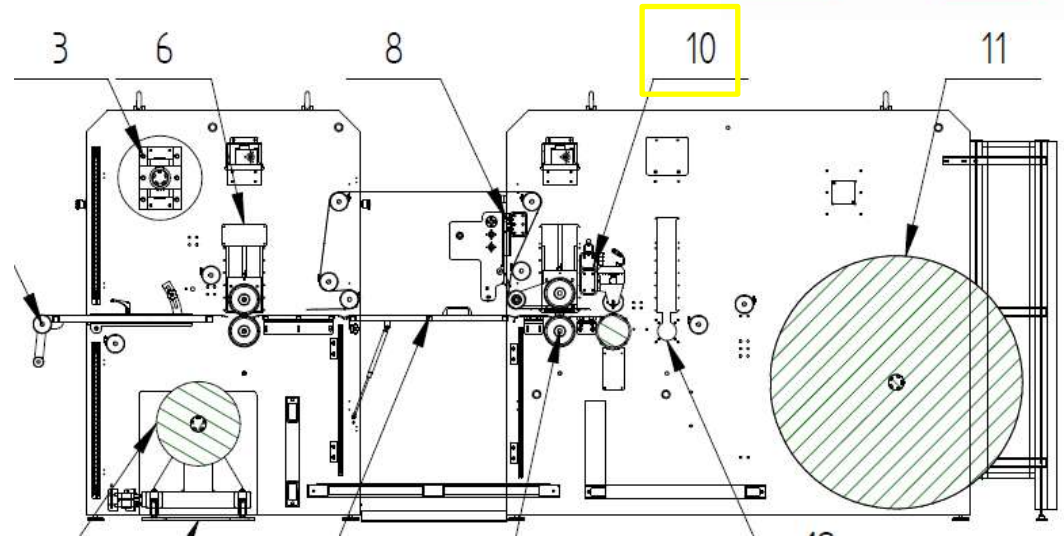
Second calender (brushless motion) to re-laminate liner onto original adhesive



# Laminator Configuration

## Score-cut Slitting Unit

Layout position # 10



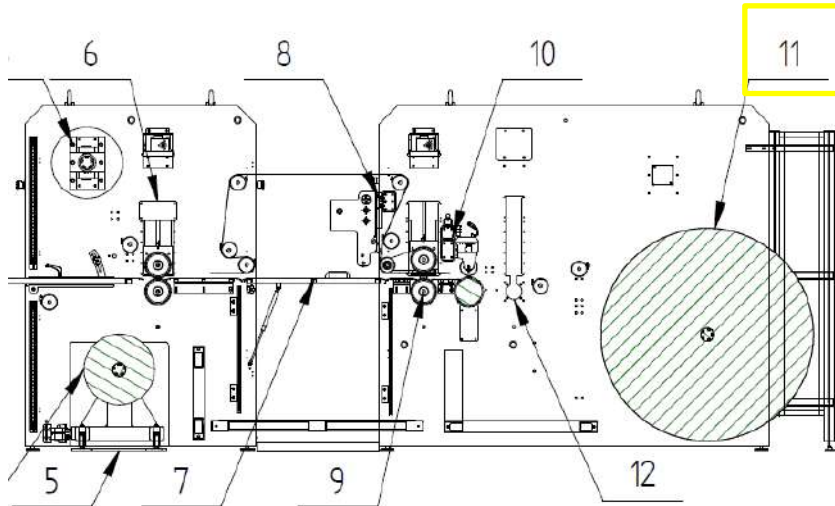
### Slitting features

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

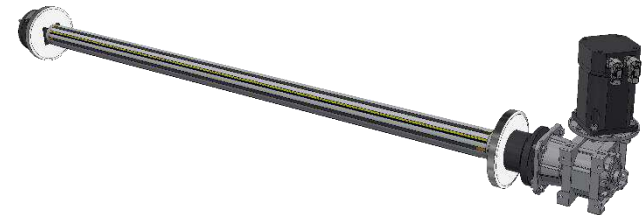
## Final Rewinder

### Layout position # 11



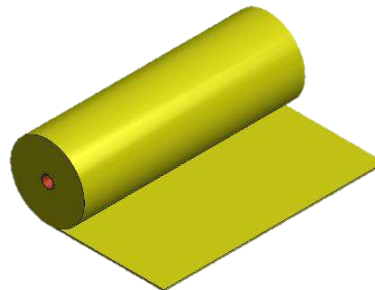
#### Rewinder features

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



#### Material

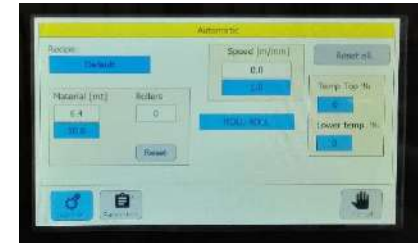
Width	1600 mm
ID	76 mm
OD	1200 mm
Weight	500 Kgs





# 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 possibility to save working recipes, and pannel control
Other Options	Embedded electronic counter of meters
	Start and Stop foot pedal / Automatic & Manual Working Cycle



**Thank you for your attention**