



KK1 T DS LC TC F

Applications Notes



Material Entrance

Lamination

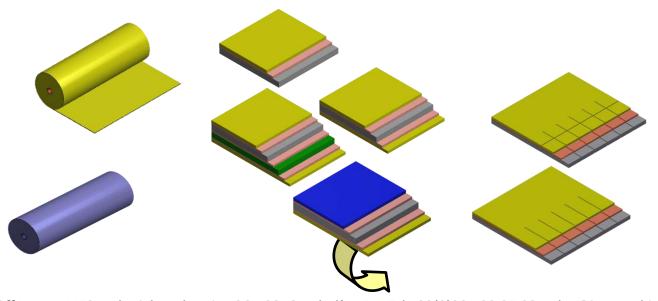
Cutting Group (optional)

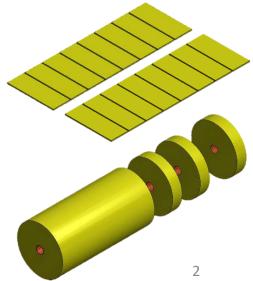
Exit material

- Entrance
 - table
- Unwinder

- Single/Double Layer
- Liner remover(s)
- Thermo Adhesive
- Lenghtwise cut
- Powered circular smooth blade
- Trasversal cut

- Exit
 - conveyor
- Rewinder

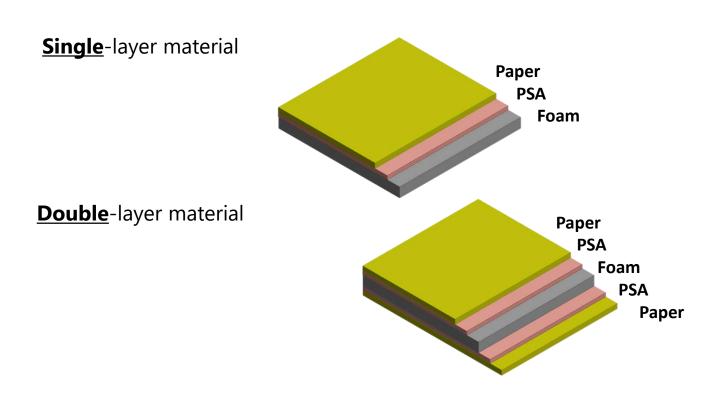




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Applications Notes

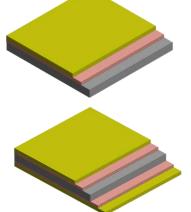


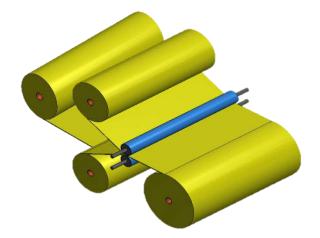


Applications Notes



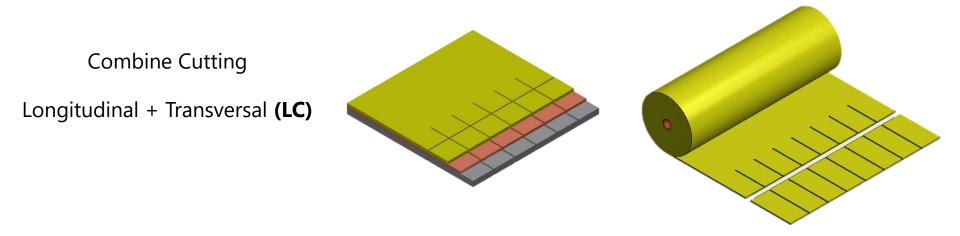






Applications Notes





Continuous Flying Transversal cut, by chase

with double trim option for sheet and rolls: Cutting transversal cycle with double material header cut (clean cut for the last edge of the tail processed roll and clean cut for the first edge of the new material)

Business sector/Applications Tips



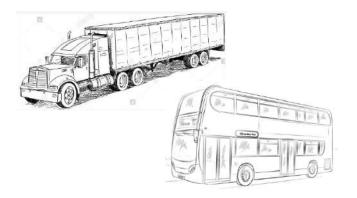
AUTOMOTIVE

Acoustic and Thermal insulated panels
Interiors
Gasket and Technical Parts
Oil proof and water proof panels
Panels for High Temperature applications



TRUCK/BUS FLOORING/ROOFING

Carpeting for flooring and roofing sheets, in automotive, truck, building, aerospace.



INSULATION

Acoustic and Thermal, for automotive, aerospace, buildings and appliances market.

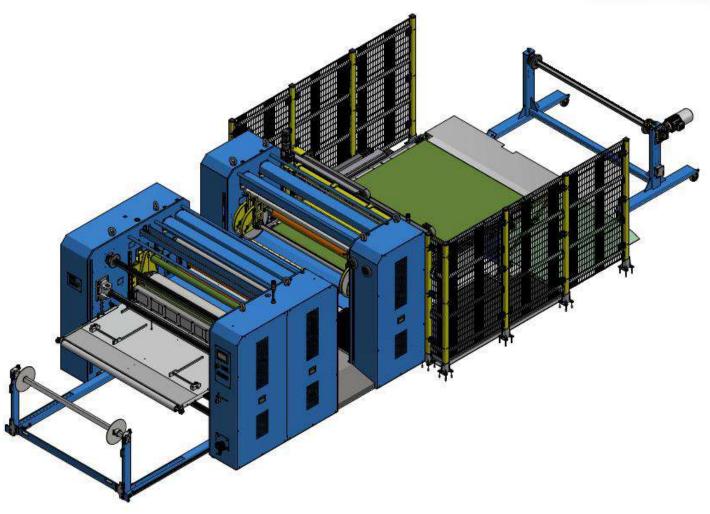
AEROSPACE

Acoustic and Thermal insulated panels
Interiors and Technical parts
Oil proof and water proof panels
Special laminated sheets for services and engines



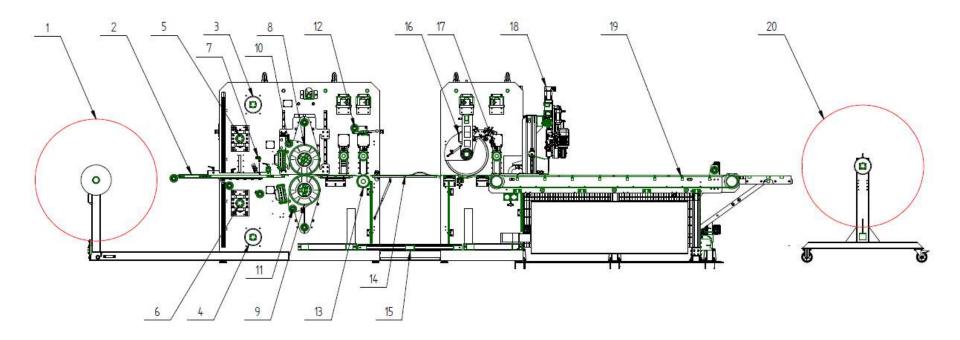
Preliminary Layout





Preliminary Layout

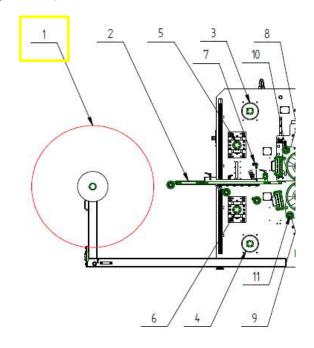




Laminator Configuration External Unwinder



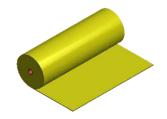
Layout position # 1



Telescopic Folding	Unwinder features
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Roll holder shaft	Steel Shaft, 70 mm
Roll check	Mechanical brake
Safey supports	Two safety support

Material	
Width	1600 mm
ID	76 mm
OD	1400 mm
Weight	100 Kgs







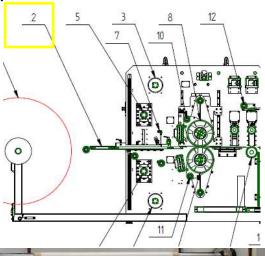




Laminator Configuration Entrance Table



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



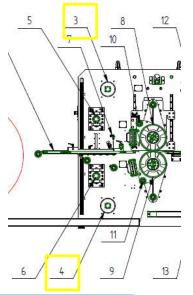




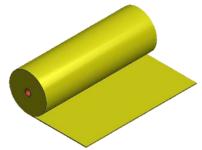
Laminator Configuration Adhesive/Foil Unwinder



Layout position # 3 & 4



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



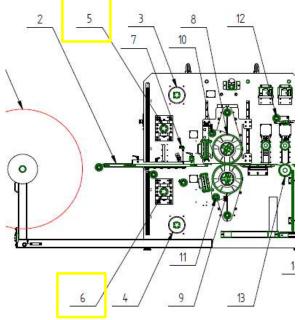
Checked by EMG Brake Roll holder shaft Air expanding shaft, 76 mm Roll check Brake by Touch Screen Safey supports Two safety supports



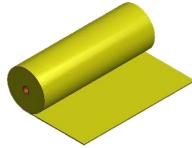
Laminator Configuration Liner remover



Layout position # 5 & 6



Material	
Width	1600 mm
ID	76 mm
OD	300 mm
Weight	70 Kgs



Rewinder features	
Checked by	Brushless Motor
Roll holder shaft	Air expanding shaft, 76 mm
Tension Control	Torque electronic control
Safey supports	One articulation + safety support







Laminator Configuration Liner remover process





From the adhesive/foil

Removing liner from the Adhesive/Foil



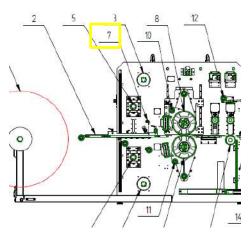
From the material

Removing liner from the fed material

Laminator Configuration FTC - Sheet Presence Contactless Sensor



Layout position # 7



FTC – Sheet Presence Sensor features

The sensor detect the fisrt edge of the sheet allowing the Laminator to cut in between the two sheets (first and second)

Even if the top surface it's already laminated with Adhesive



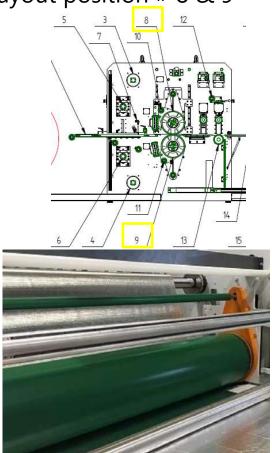




Laminator Configuration Hot Lamination Calender



Layout position # 8 & 9



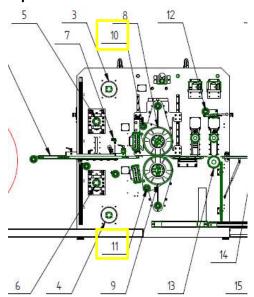
Upper nip roller features	
Checked by	Brushless motor, adjustable speed
Rollers features	Fluoropolymers covered steel cylinder
Heating system	By Thermal Oil
Working Temp	Adjustable up to 230°C (445°F)
Gap control	Powered and checked by PLC
Gap Display	Touch screen panel control

Lower nip roller features	
Checked by	Brushless motor, adjustable speed
Rollers features	Fluoropolymers covered steel cylinder
Heating system	By Thermal Oil
Working Temp	Adjustable up to 230°C (445°F)
Max Work speed	Adjustable up to 5 mts/min

Laminator Configuration Contact roller surface increasing system



Layout position # 10 & 11

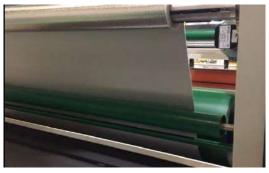


System features

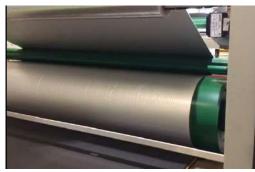
Checked by	Brushless motor, checked by PLC
Rollers features	Fluoropolymers covered steel cylinder







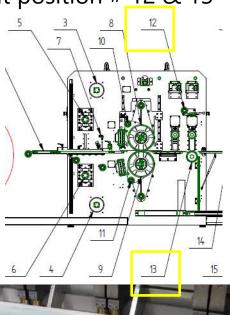




Laminator Configuration Pre-cut Liner Device



Layout position # 12 & 13





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

Razor cutter bench, with manual positioning of the cutters

Second calender to re-laminate liner onto original adhesive







Laminator Configuration Tilting Table



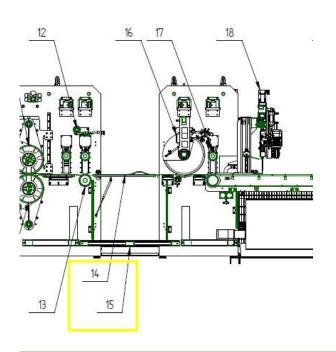
Layout position # 14 & 15

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



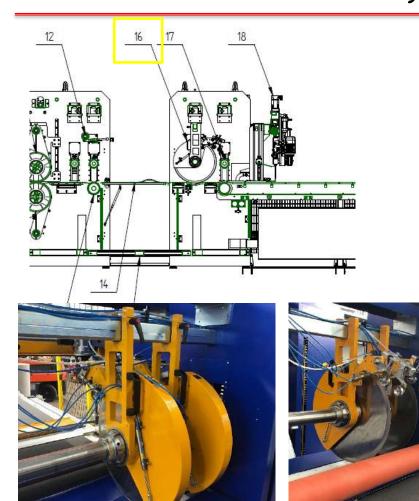




Laminator Configuration Powered Circular Knives Slitting Unit



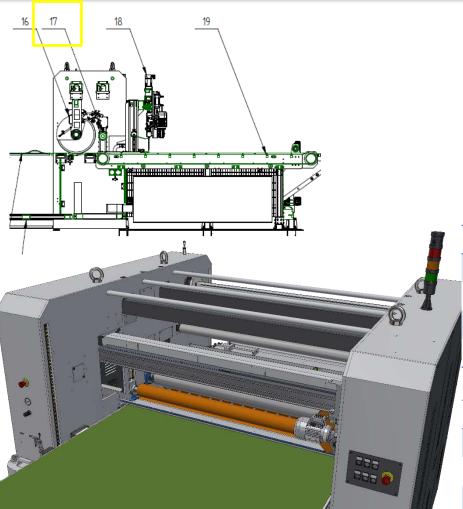




Slitting features	
Knives	4 Powered circular smooth blades
Cutting system	Multiple powered knives
Blade Positioning	Manual
Knives control	Adjustable blade speed
Min cutting width	140 mm
Thickness	150 mm
Opening	150 mm

Laminator Configuration Puller Calender





Layout position # 17

Upper nip roller features

Checked by	Free roller
Rollers features	Silicone covered
Gap control	Manual by handwheel
Gap Display	Mechanical display

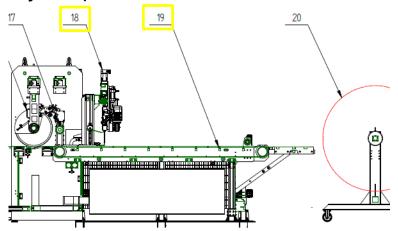
Lower nip roller features

Checked by	Brushless motor
Rollers features	Silicone covered
Speed Managing	Independentely from main calender

Laminator Configuration Automatic Following Cross Cutting Unit



Layout position # 18 & 19



Cutting system features

Knives	Powered Circular Knife
Cutting system	Powered blade on steel counterblade
Sliding	Automatic sliding in both directions
Option Devices	Lubrication, Sharpening and Presser
Blade Cleaning	Cleaning felt wiper
Cutting Cycle options	Static or Following by chase
Start cutting	Automatic, at set lenght
Options	Double trim for sheet applications



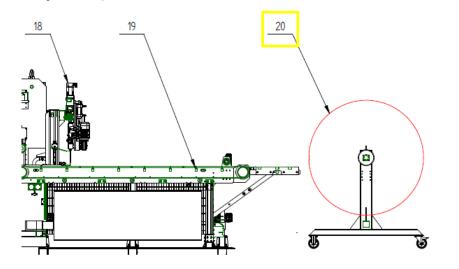




Laminator Configuration External Rewinder

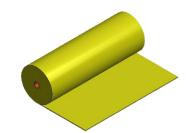


Layout position # 20



Rewiner features	
Checked by	Brushless Motor
Roll holder shaft	Air expanding shaft, 76 mm
Tension Control	Torque electronic control
Winding Options	Sensor for proportional winding
Safey supports	Two Fast Locking Safety Supports
	Removable by mounting on wheels

Material	
Width	1600 mm
ID	76 mm
OD	1400 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