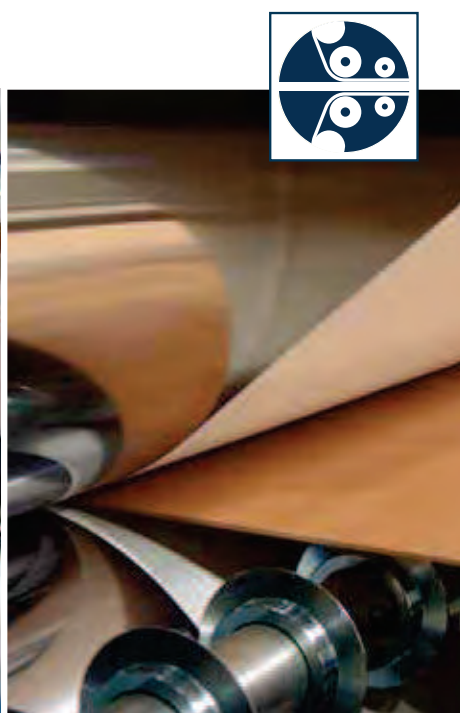


## Lamination systems



LAMINATING

GLUING



# INTRODUCTION



BARBERAN delivers nowadays the best solutions in coating, printing, drying, profile wrapping, laminating, post-forming and profile sanding, as well as a wide range of complementary machines. Our machines can be found in more than 3,000 factories for furniture, doors, windows, panels, flooring, profiles, packages, boats, toys, cars, appliances, glass, etc. More than 85% of them are located outside Spain. Our lines are designed to improve productivity and reduce manufacturing costs, taking always into consideration our respect for the environment.

We have an independent manufacturing plant exclusively dedicated to produce our coating and printing machines, drying tunnels as well as complementary machines. At this facility, we manufacture from single machines to the most comprehensive lines according to customer's needs.

We are the company who developed the last technology of indirect printing either for wooden packages, printing over profiles of PVC, glass, , flooring, profiles, doors, PVC, etc., as well as a wide range of furniture printing systems.





# Quality and service

**QUALITY.** BARBERAN, S.A. Number one objective is to offer each client with highest quality products. With this philosophy, we undertake each step with strict quality control, from the acquisition of the raw material, production, machines installation till the after sales service. The iso 9001 certification governs each manufacturing step and guarantees our quality at international level.



# Machinery for manufacturing kitchen doors

## Kitchen door manufacturing processes

- 1- Acrylic foil (0.22 mm thickness): Laminating and postforming line.
- 2- Methacrylate (2 mm thickness): Digital printer BIJ, roller coater BRB for white base color application, UV drying tunnel HOK and PUR gluing and indexing line.
- 3- High pressure foil (1 mm thickness): PUR gluing and indexing line.
- 4- High pressure foil (0.7 mm thickness): PUR gluing and indexing line.
- 5- PVC foil (0.35 mm): Laminating and postforming line.
- 6- Glass: Roller coater BRB for white base color application, UV drying tunnel HOK and PUR gluing and indexing line.
- 7- Profile wrapping.
- 8- Engraved roller printing for wooden flooring or digital printer line.

BARBERAN presents its range of machinery dedicated to manufacturing kitchen doors which achieves finishes of highest quality lowering production costs and taking care of the environment. For lacquering kitchen doors we offer our roller coaters for base and top coats BRB and BRB2 and our rotary robot spraying machines B4 and B8, for conventional or UV drying our tunnels HOK, OPTIOVEN, IRK, TST and TSP, for gluing we offer complete lines composed of a brushing machine LP, a hotmelt glue spreader EN-H or EN-PUR, an indexing table IT or ITD and a roll press CAL-H at the outfeed, for laminating and postforming doors we have developed specially to apply high gloss foils our SPEED PRESS line and for printing any customized and digitally stored design our modern BIJ digital printing lines "Single Pass" which were priced as the best innovation in the wood industry a few years ago.







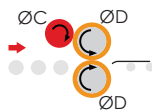


# Gluing machine for the application on flat surfaces

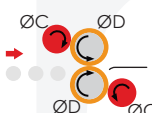
## EN-PUR

Gluing machine for reactive hotmelt application on flat surfaces (Panels, gypsum plates, insulators, etc.) prepared for its fast finishing, Flexibility and high production capacity. Resistant and fast gluing (water resistant pur glue). Melting temperatures adaptable to different glues. Mod.EN-PUR-4 High temperature, with silicone application rollers and metallic doctor rollers heated up to 165 °C for PUR HOT MELT GLUES. Premelter + connections to be determined. Mod. EN-PUR-2, only single side application.

EN-PUR-2



EN-PUR-4



MOD.	Length	°C	Ø C	Ø D	kW
EN-PUR-2-800	700	245	245	8	8
EN-PUR-2-1100	1000	245	245	9	9
EN-PUR-2-1400	1300	245	245	12	12
EN-PUR-2-1800	1700	245	245	13	13
EN-PUR-2-2200	2050	305	305	19	19
EN-PUR-2-2400	2200	305	305	23	23
EN-PUR-2-2800	2600	305	305	24	24
EN-PUR-2-3200	3000	355	355	30	30
EN-PUR-4-800	700	245	245	12	12
EN-PUR-4-1100	1000	245	245	14	14
EN-PUR-4-1400	1300	245	245	22	22
EN-PUR-4-1800	1700	245	245	25	25
EN-PUR-4-2200	2050	305	305	34	34
EN-PUR-4-2400	2200	305	305	38	38
EN-PUR-4-2800	2600	305	305	40	40
EN-PUR-4-3200	3000	355	355	50	50







# EN-PUR 300

PUR Glue spreader for small panels up to 300 mm width.  
Option: fast and precise motorized application head raising.



Gluing of both sides of the panels.



Infeed conveyor rollers and outfeed.



Applicator roller coated with elastomer.



Glue grammage adjustment by speed variation.



Cleaning system turning oppositely to the application sense.

GLUING



Level detectors for the glue supply control.



Machine with variable frequency geared motors.



Metallic dosing roller with internal heating by thermal oil.



Upper head lifting system on 4 columns.



Upper protection with total visual access and prepared for gas extraction

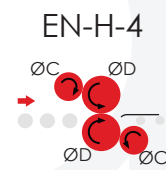
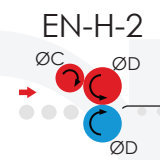
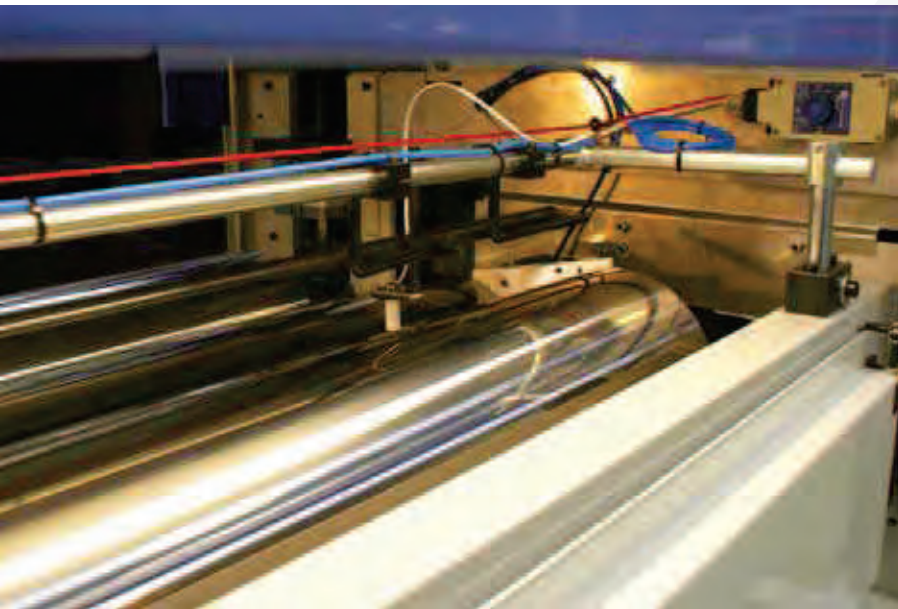
# Gluing machine for the application on flat surfaces

## EN-H-2    EN-H-4

Gluing machine for reactive hotmelt application on flat surfaces (Panels, gypsum plates, insulators, etc.) prepared for its fast finishing, flexibility and high production capacity. Resistant and fast gluing. Melting temperatures adaptable to different glues. High temperature, with metallic application and doctor rollers heated up to 200 °C for hot melt glues (PUR, EVA, POLIOLEFINA, etc.). Premelter + connections to be determined. EN-H-2, only single side application.







Model	A mm	Ø C	Ø D	KW
EN-H-2-900	700	248	248	12
EN-H-2-1100	1000	248	248	14
EN-H-2-1400	1300	248	248	20
EN-H-2-1800	1700	248	248	23
EN-H-2-2200	2050	305	305	34
EN-H-2-2400	2200	305	305	36
EN-H-2-2600	2400	305	305	38
EN-H-2-3200	3000	358	358	44
EN-H-4-800	700	248	248	21
EN-H-4-1100	1000	248	248	25
EN-H-4-1400	1300	248	248	35
EN-H-4-1800	1700	248	248	43
EN-H-4-2200	2050	305	305	65
EN-H-4-2400	2200	305	305	69
EN-H-4-2600	2400	305	305	73
EN-H-4-3200	3000	358	358	85

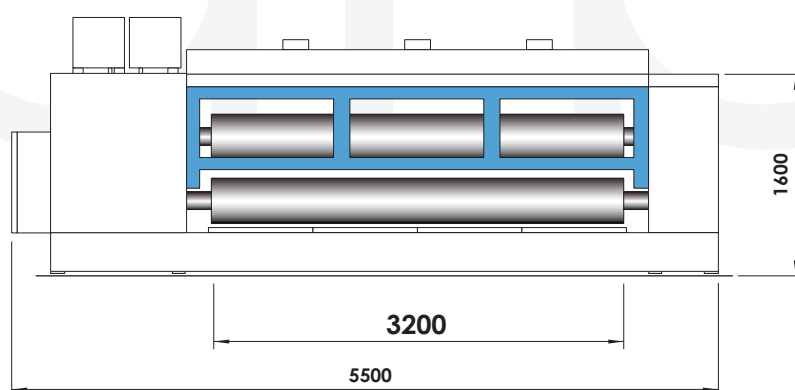
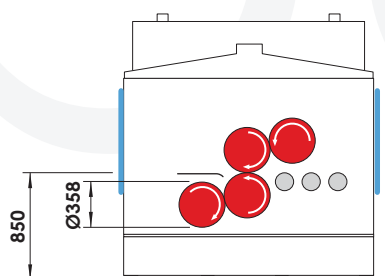


GLUING

# Gluing machine for the application on flat surfaces

## EN-H-3200

Gluing machine for hotmelt application on flat surfaces (Panels, gypsum plates, insulators, etc.) prepared for its fast finishing.





# GS-4-PVAc

Gluing machine for the application of PVAc glues over smooth surfaces.

Support and elevation system of the application head over 4 columns which guarantees the application precision by its rigidity, independent speed regulations for the application roller, inferior applicator roller and transport, superior dosing roller and inferior dosing roller, reversible turn dosing roller covered with EBONITE (One way while it is making the application and the other way while the machine is being cleaned for security purposes), buttons and controls in IP-55 application rollers with quick-change system,

numerical reading of the head elevation to a maximum of 80 mm and the adjustment of the dosing roller in between 0 and 80 mm, rollers with protection covers at the entrance and exit with security system, security protection systems which detects the thickness of the pieces entering the machine, lateral plates for glue storing in between rollers, dismountable table for an easier cleaning of the inferior rollers.



GLUING

# Compact laminating machine for PUR, EVA, poliolefine, hotmelt glues and CPL

## Compact line

Compact laminating machine for the application of paper foil, PVC and low pressure laminates (CPL) on panels made of MDF or particleboard using EVA or PUR hotmelt glues. The machine is composed of a single bedframe with a tiltable infeed table with panel guides, an applicator and a doctor roller, both made of steel and heated by means of heating elements in oil bath, a counter-pressure roller made of silicon rubber, two pressing rollers made of steel (one upper and one

lower) to apply a pressure up to 10 Kg/cm<sup>2</sup> on both, foil and panel, and a tiltable outfeed table. The glue is supplied by an independent melting unit with heated hose that can be purchased from a specialized supplier.







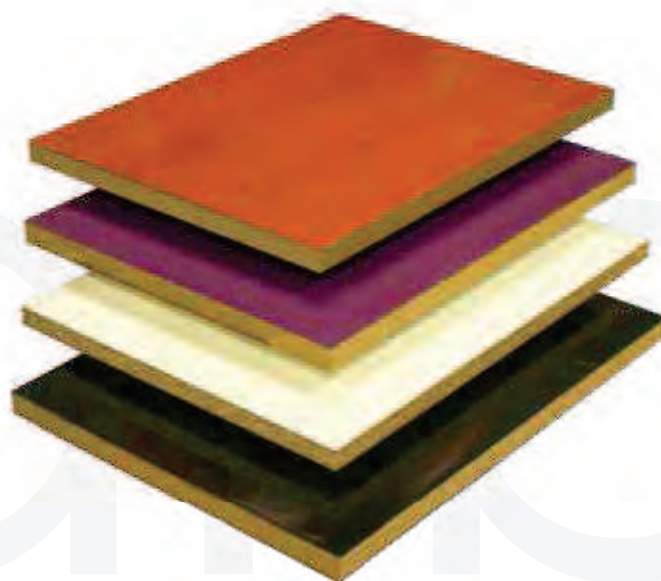
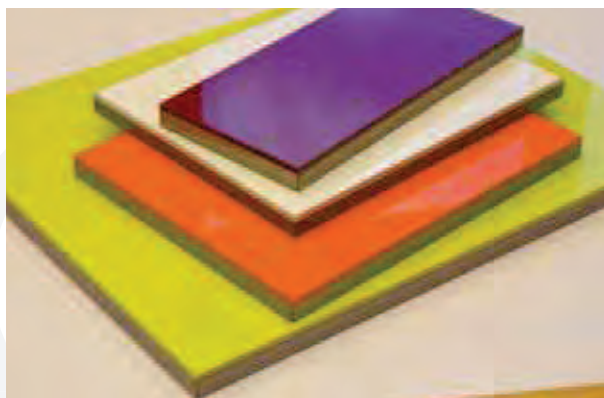
erco  
ACT



GLUING

# Hotmelt lacquer application and smoothing machine

## MEN-H



With optionals





Machine for the application of the new hotmelt lacquer types on flat surfaces by means of an upper head with rubber application roller, doctor and smoothing roller heated with heating elements in oil bath.

Thanks to our efforts looking for new applications and developments in our branch and always co-operating very close with the most important product manufacturers, the MENH could be manufactured to contribute with the most suitable and perfect application system for this new concept in the Industrial Lacquering, where, in combination with the new hotmelt lacquer types, the producer can save to use filler and base coat roller coaters and respective drying systems, as well as the traditional sanding after the application of the base coat. Production speed up to 25 m/min.

REMARKS: This machine needs a melting unit to melt and supply the hotmelt lacquer to the roller application head.



GLUING

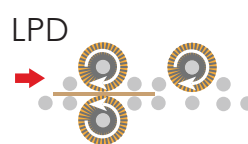
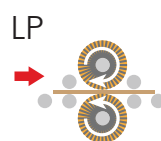
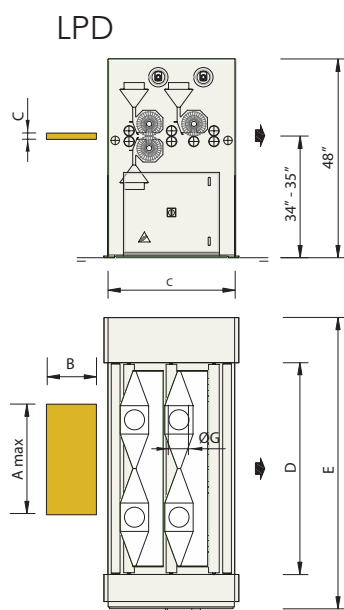
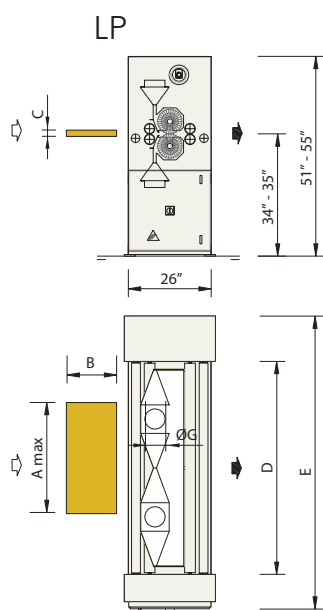
MEN-H

# Brush cleaning machines

## LP / LPD

Machines for the cleaning of flat surfaces by means of an upper and a lower vegetal fibre brushes, that rotate in the opposite direction to the workpieces. The lower brush is also adjustable in height in order to compensate the wear down. The machine includes a driving roller conveyor for the transport of the workpieces.

LP



MOD.	mm	mm	m³/h	lit/min	kW
LP-600	180	4x150	6400	5-30	1.5
LP-800	180	4x150	6400	5-30	1.5
LP-1100	180	4x150	6400	5-30	1.5
LP-1400	180	4x150	6400	5-30	1.5
LP-1600	180	4x150	6400	5-30	1.5
LP-1800	180	4x150	6400	5-30	3
LP-2000	180	4x150	6400	5-30	3
LP-2200	180	4x150	6400	5-30	3
LP-P-2400	250	4x200	10000	5-30	7
LP-P-2600	250	4x200	10000	5-30	7

MOD.	mm	mm	m³/h	lit/min	kW
LPD-600	180	4x150	9600	5-30	2.6
LPD-800	180	4x150	9600	5-30	2.6
LPD-1100	180	4x150	9600	5-30	2.6
LPD-1400	180	4x150	9600	5-30	2.6
LPD-1600	180	4x150	9600	5-30	2.6
LPD-1800	180	4x150	9600	5-30	2.6
LPD-2000	180	4x150	9600	5-30	3.4
LPD-2200	180	4x150	9600	5-30	3.4
LPD-P-2400	250	6x200	14800	5-30	7.7
LPD-P-2600	250	6x200	14800	5-30	7.7



## LPD



GLUING



Machine with one upper and one lower reverse rotating brushes of vegetable bristle.



Flat top and bottom surfaces.



Dust exhaust hoods with four outlets.



Rising through manual spindle with analogic indicator.



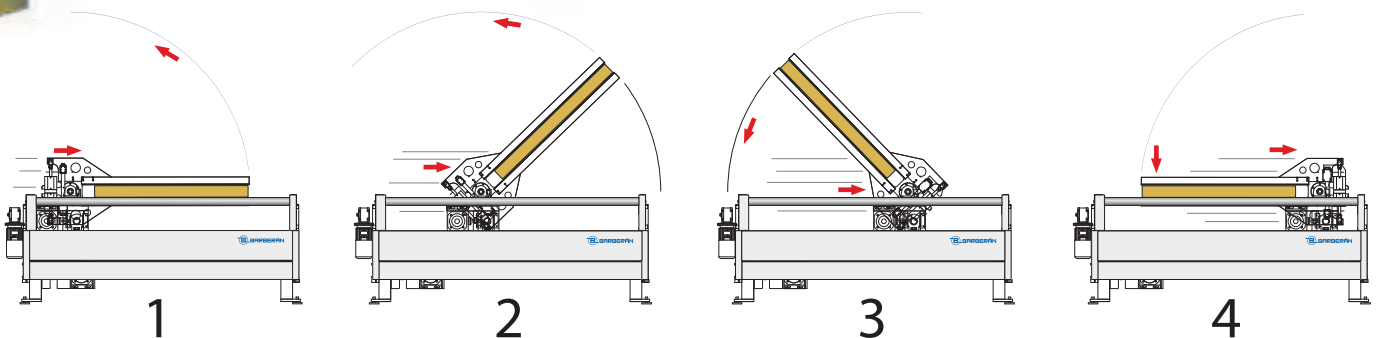
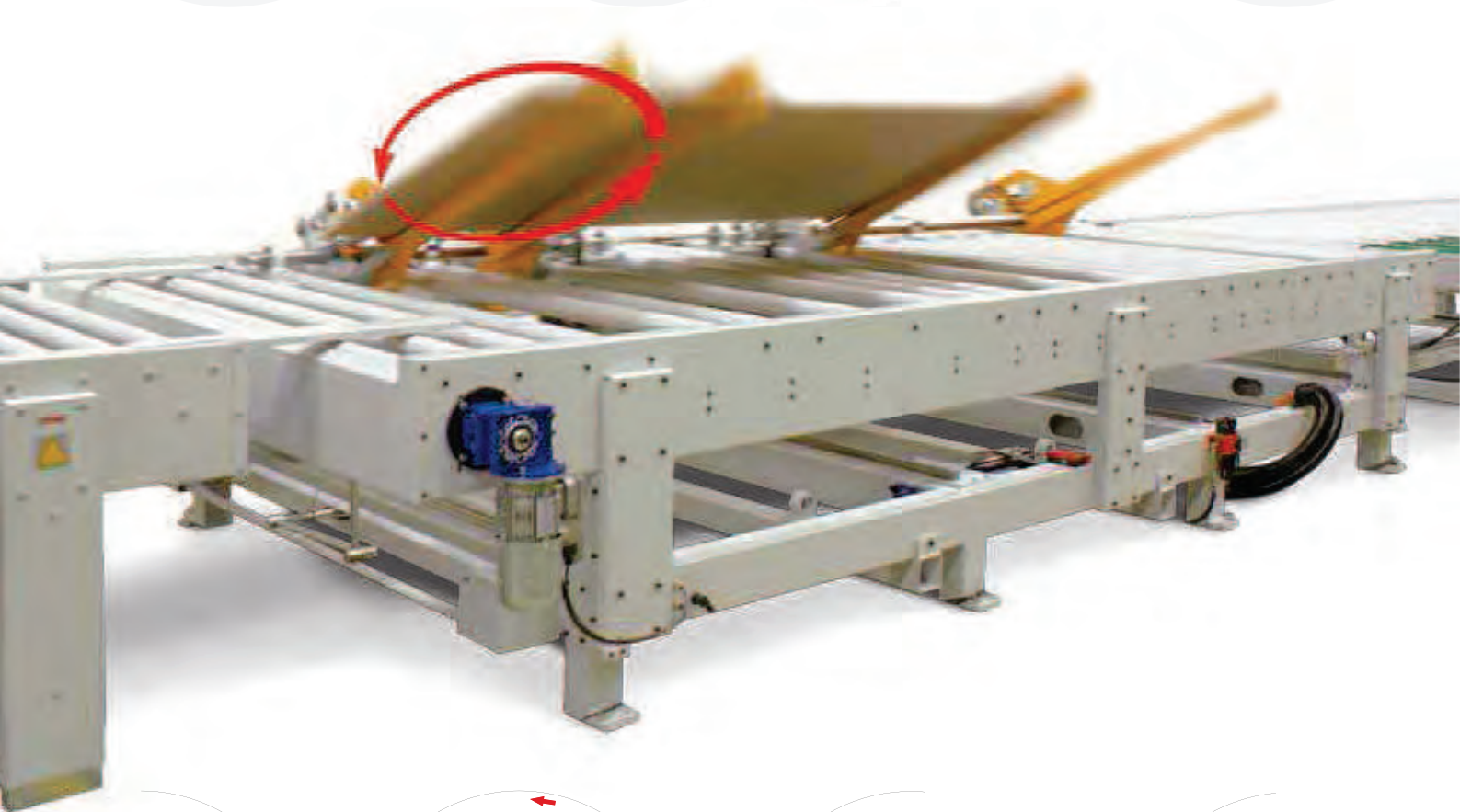
Speed regulation through inverter with digital display.

# Board turning devices

## VP

### CLAMP TURNING DEVICE

The board enters the turning device through the roller conveyor and stops automatically in the centre of it. Four transversal clamp arms hold the board. The turning is performed because the contrary end of the arms (the clamp mouth) is raised over the table to fall into the contrary side turning in this manner the board hold by the clamps. Once the operation is finished, the clamps are opened and the panel is fed out through the outfeed roller table.

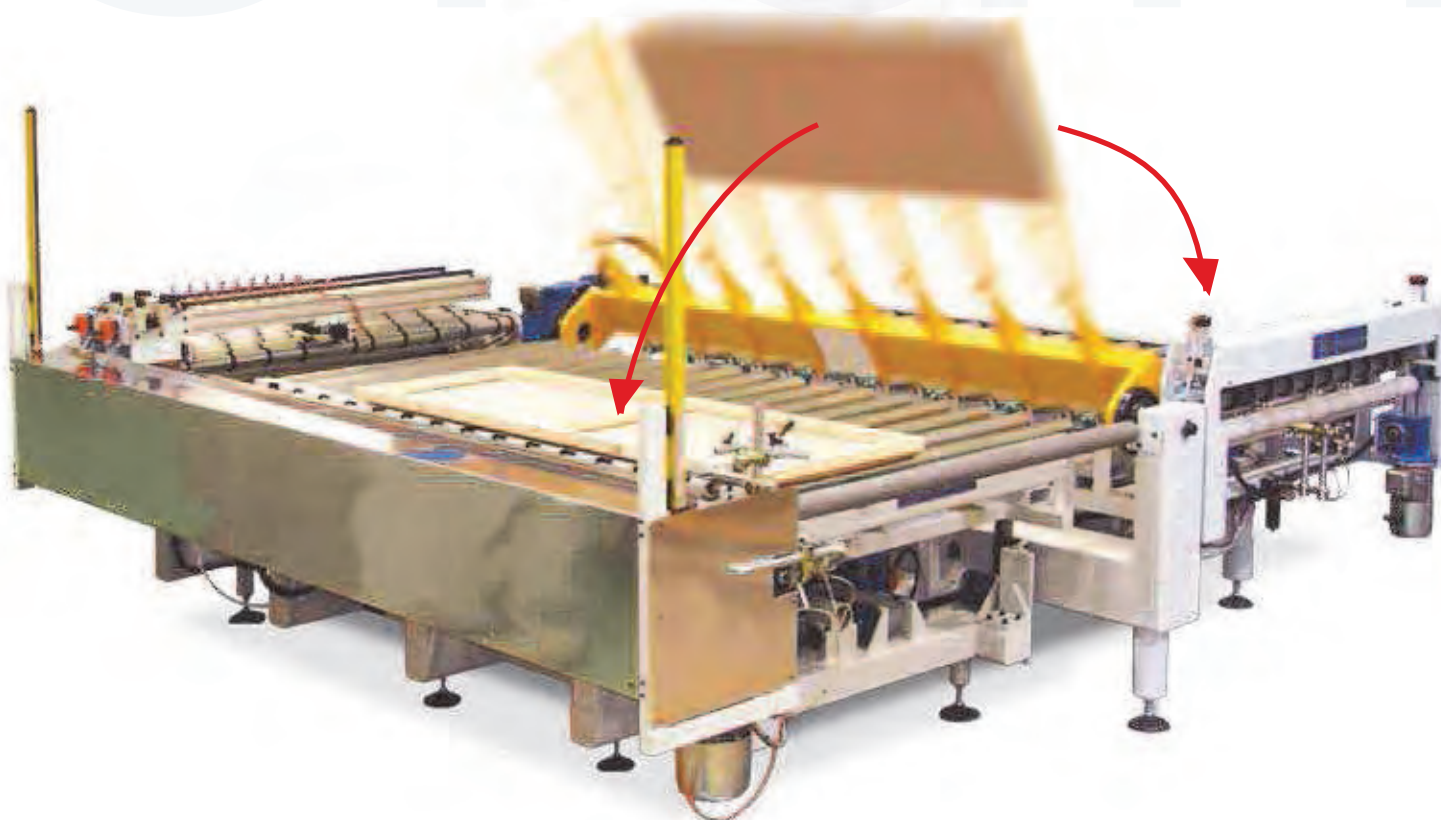




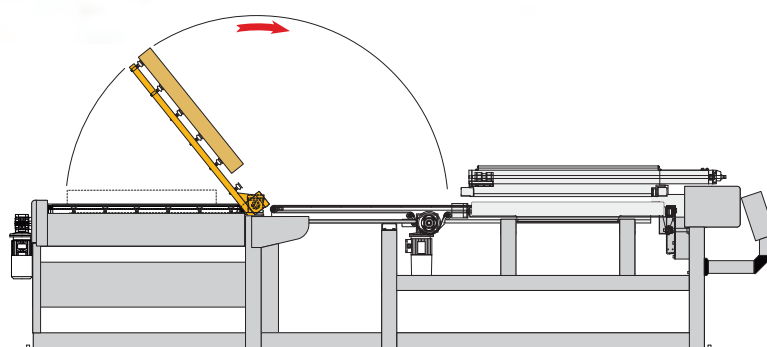
# VO

## TURNING DEVICE

It includes transversal arms each with a row of suction pads. These arms are placed between the rollers of the infeed table. They turn the skin top 180° placing it onto the top of glued door frame already positioned on the door assembling table. The system is equipped with a blowing device for releasing of the skin. Once the skin is released the rotation arms return to its starting position. The turning movement is done by means of a motor-reducer of 0.75 kW.



GLUING



# Indexing Stations

## ITP-SI

### INDEXING STATION FOR PANELS

Station for the application of laminate sheets on the top and bottom side of previously glued panels. This station needs to be operated by just one person. It is composed of a roller conveyor table, a set of pneumatic lateral presses and a tray, which allows to place the laminate sheets onto and under the glued panel.

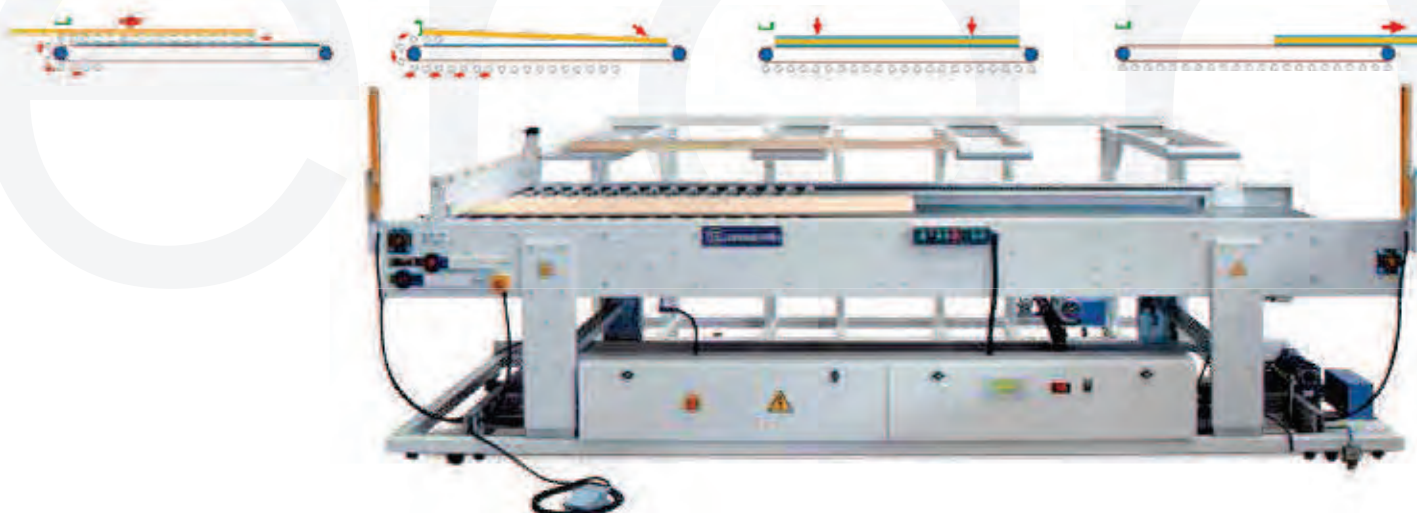




# ITD-SI

## TOP AND BOTTOM INDEXING STATION

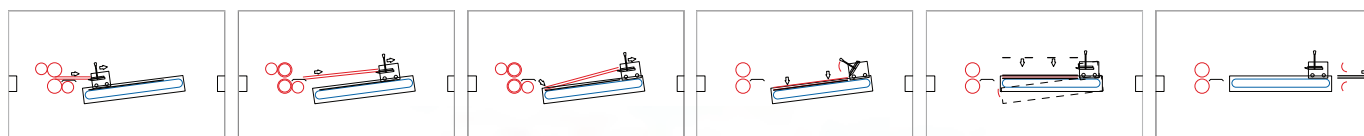
The indexing station is an assemble of two trays and a special belt conveyor that facilitate the manual placement of laminate sheets on top and bottom of glued panels in a pressing line to manufacture <sandwich> panels.



# IT-S IT-SI

## TOP AND BOTTOM INDEXING STATION

Station to cover both faces of a glued nucleus (rigid or flexible) with sheets, assembling a sandwich panel. A single operator can execute this job. The sheets may be HPL, aluminium foil, wood veneer, MDF, etc.



# Indexing Stations

## ITL

### AUTOMATIC INDEXING STATION

This station is composed of a belt conveyor for the panels, a laminate sheet feeder with suction pad feeding system, a manually height adjustable ramp and motorized guides for the laminate width adjustment. Synchronized indexing of the laminate on the panel's surface, which has been previously glued with a glue spreader. A nip roller presses the laminate against the panel afterwards.





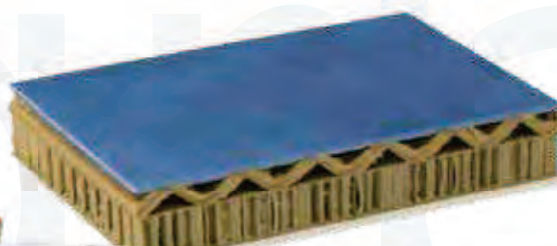
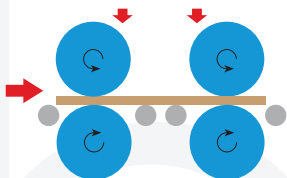




# Calenders

## CAL

Calendering machine with cold metallic rollers (optionally heated), for the improvement of the surface before gluing or to press the glued panels.



Speed regulation through INVERTER with digital display.



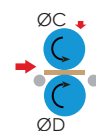
OPTIONAL / OPTIONAL

Foil cut at the outfeed.

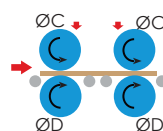


4 Heated rollers (option).

### CAL-2



### CAL-4

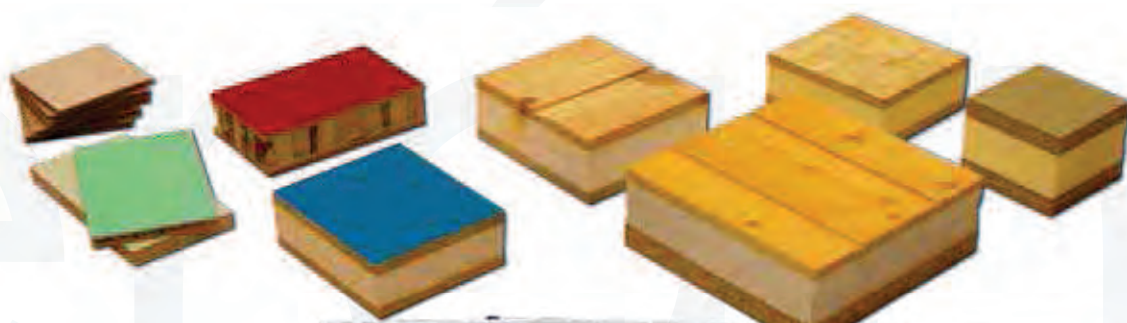
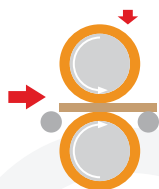


MOD.	Amg	Ø C	Ø D	kW
CAL-2-800	700	345	248	8
CAL-2-1100	1000	348	248	9
CAL-2-1400	1300	248	248	12
CAL-2-1600	1500	248	248	13
CAL-2-2200	2100	290	290	19
CAL-2-2400	2300	290	290	23
CAL-2-2600	2500	290	290	24
CAL-2-3200	3100	358	358	30
CAL-4-800	700	248	248	12
CAL-4-1100	1000	248	248	14
CAL-4-1400	1200	248	248	22
CAL-4-1600	1500	248	248	25
CAL-4-2200	2100	290	290	34
CAL-4-2300	2200	290	290	38
CAL-4-2600	2500	290	290	40
CAL-4-3200	3100	358	358	50

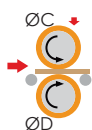


# CAL-H

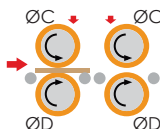
Calendering machine with cold rubber rollers to press, calander the panels glued with hotmelts.



CAL-H-2



CAL-H-4



Model	A mm	Ø C	Ø D	kW
CAL-H-2-800	700	238	248	2
CAL-H-2-1100	1000	238	248	2
CAL-H-2-1600	1500	238	248	2
CAL-H-2-2000	1900	350	350	3
CAL-H-2-2300	2200	350	350	3
CAL-H-2-2600	2500	350	350	3
CAL-H-2-3200	3100	400	400	4
CAL-H-4-800	700	238	238	4
CAL-H-4-1100	1000	238	238	4
CAL-H-4-1600	1500	238	238	4
CAL-H-4-2000	1900	350	350	6
CAL-H-4-2300	2200	350	350	6
CAL-H-4-2600	2500	350	350	6
CAL-H-4-3200	3100	400	400	8



GLUING



Option upper unwinding station.



Digital Control of the roller temperature (option).



Top rollers raising through motorized spindle with analogical comparator read out.



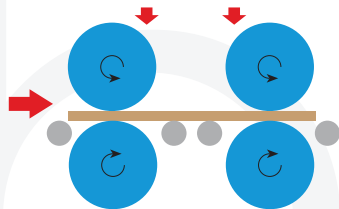
Panel thickness Control barrier with emergency stop.



Single motor driving to the 2 or 4 pressing rollers.

# Calenders

## CAL-4-2200

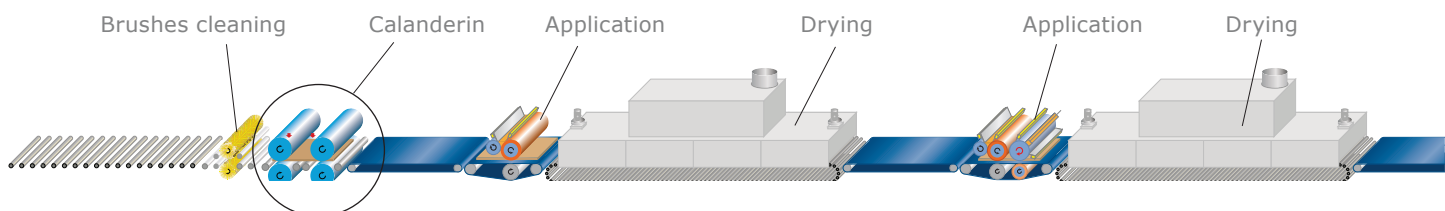


Calender machine with metallic unheated rollers (optionally heated) to improve the surface of the panels before they are glued or for pressing glued panels together. The rollers press the wood or particleboard panels so that the resin content seals their surface achieving an effect comparable to the application of filler avoiding the intermediate sanding as well.

**This method achieves important savings in lacquers and sanding belts and minimizes the risk of peelings.** The upper pressing rollers are made of chromed, rectified steel.



Preparation for the roller assembling. Ø500

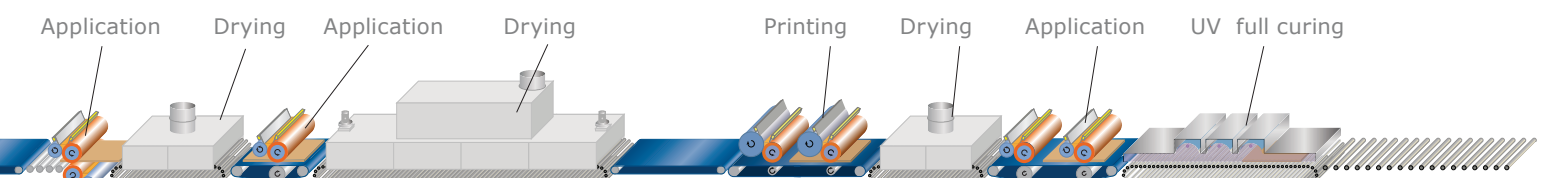


Location of calander machine in a panel printing line.



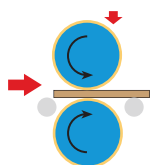


GLUING



# Calenders

## CAL-G

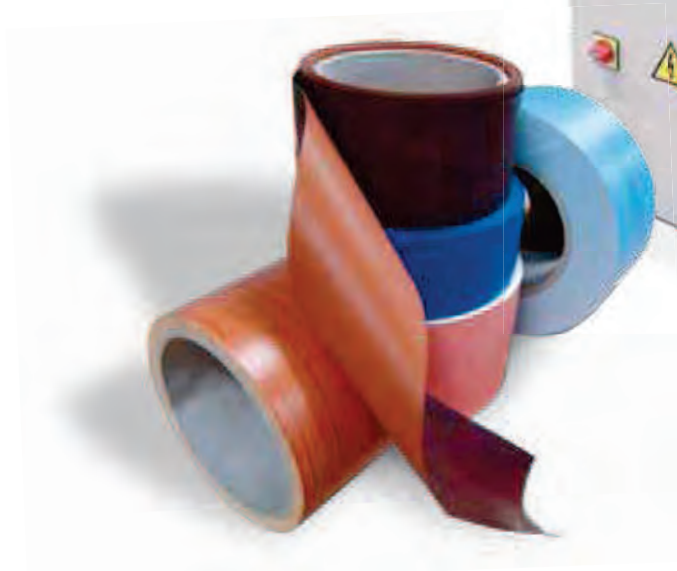


### EMBOSSING CALANDERING MACHINE

For the flat surface embossing with an engraving pressure roller. Embossing roller driven by means of an electronic converter and with digital forward speed read-out. The counter-pressure roller has the same diameter than the embossing roller and it is made of polyamide.

It is possible to heat up the upper roller.

For paper foil or PVC.



Engraved pressure roller.



### Características técnicas (sin opcionales) Technical features (without options)

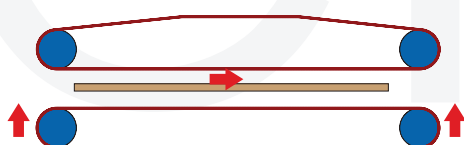
Ancho útil de aplicación / Working width.....	550 mm
Grueso de trabajo / Board thickness .....	0,5÷80 mm
Altura de trabajo ajustable / Adjustable working height .....	880÷920 mm
Rodillo gofrador y de contrapresión / Engraving and counter-pressure roller.....	Ø 293 mm
Velocidad de trabajo / Working speed .....	3÷18 mm
Potencia motor / Motor power .....	1,5 kW
Presión hidráulica / Hydraulic pressure.....	50 kg/cm



# CAL-P

## LOW-PRESSURE PRESS

Designed for pressing sandwich-panels that contain nucleus with a low compressing strength and/or wavy or curved top/bottom skins.



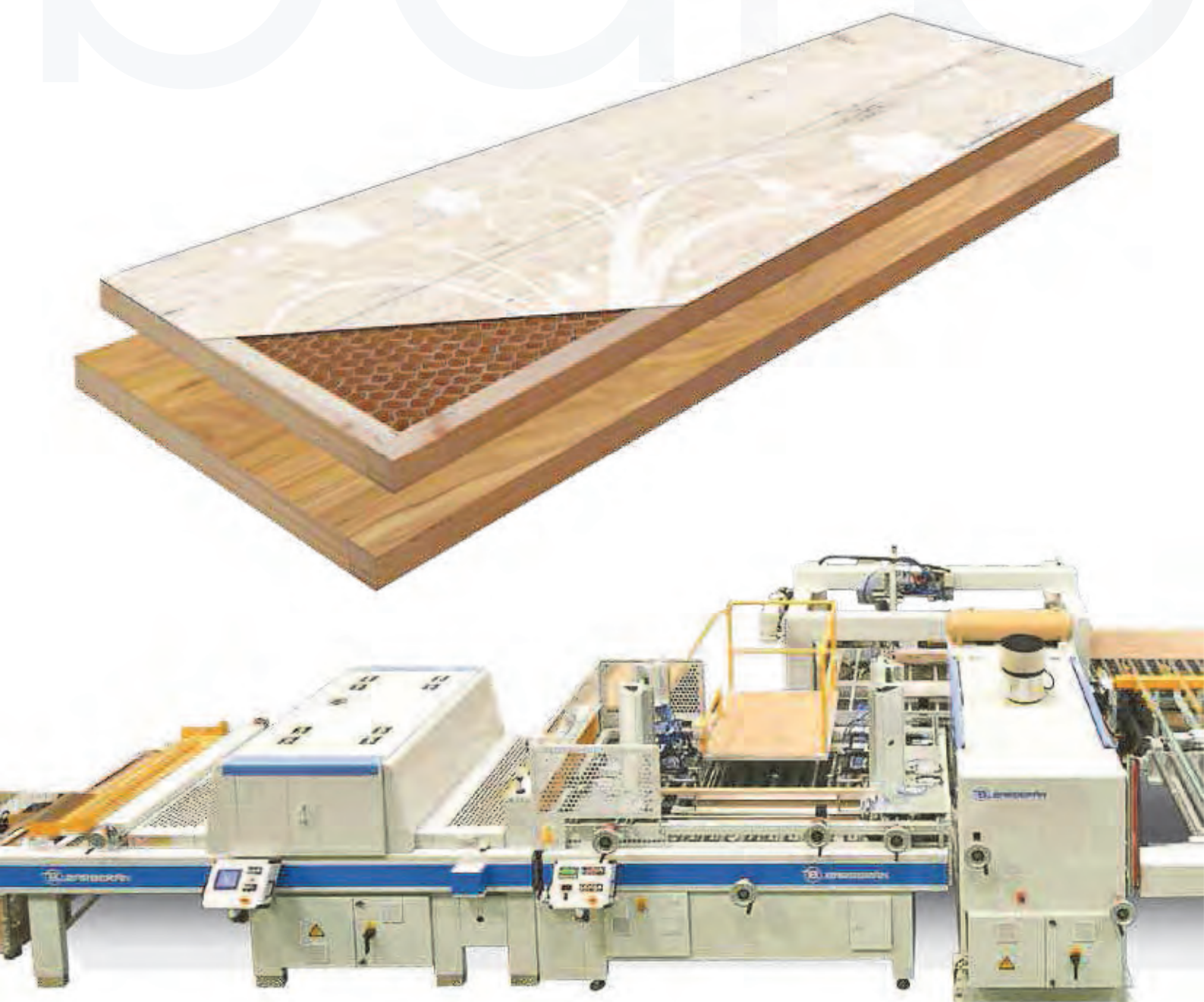
CAL-P-3200/1600

GLUING

# Automatic honeycomb door assembling line

## LAE-1

Automatic line for manufacturing honeycomb doors. The line is composed of one module for expanding honeycomb doors, one frame assembling station, one skin feeder, two tables for positioning the upper and lower skin, one belt press and an unloading station for the finished doors. The maximum speed of the line is 6 doors per minute.







GLUING

## LAE-2

The automatic door assembly installation is composed of:

- 1) Infeed table
- 2) Hotmelt glue spreader
- 3) Automatic front plate feeder with scissor lift
- 4) Panel indexing station composed of:
  - Infeed table.
  - Transversal shifting belts for lower front plate.
  - Turning device for front plates to place the upper piece.
  - Panel holding chariot.
  - Panel indexing table.
- 5) Pressing calender.
- 6) Outfeed table.

The automatic station give the signal to the feeder. The lower panel will enter the station. Once there, the transversal shifting belts bring it to the indexing table. The automatic station gives the order to feed in one core. At the glue spreader's outfeed, the chariot takes the core and forward it to be placed upon the lower front panel. The chariot leaves to go to the initial position. The turning device places the front panel upon the lower panel. Once the panels are together they are forwarded to the calender to be pressed. Finally the cycle starts again.







Panel holding chariot.



GLUING

# Semi-automatic honeycomb door assembling line

## LAN-1

Automatic line for honeycomb expanding, gluing and pressing.







# Semi-automatic panel assembling line

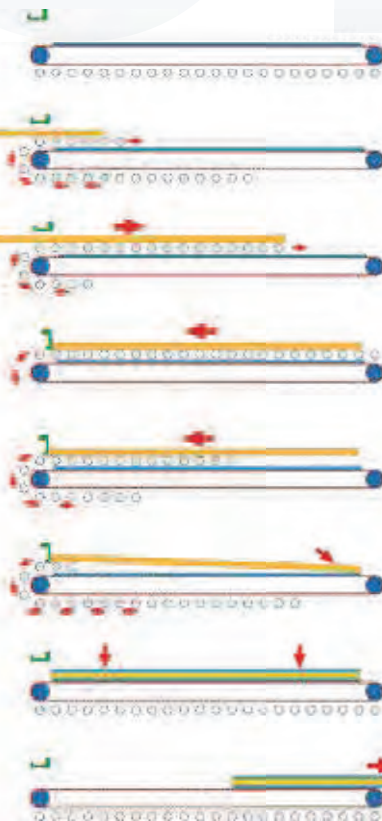
## LSE-1



Semi-automatic metallic panel gluing and laminating line composed of a brush cleaning machine, an infeed table with a deionisation barrier, primer application module, IR screen, hot melt glue spreader (singlesided), a pressing calander with foil unwinding station, an indexing table, a pressing calander with foil unwinding station and an outfeed table.







GLUING



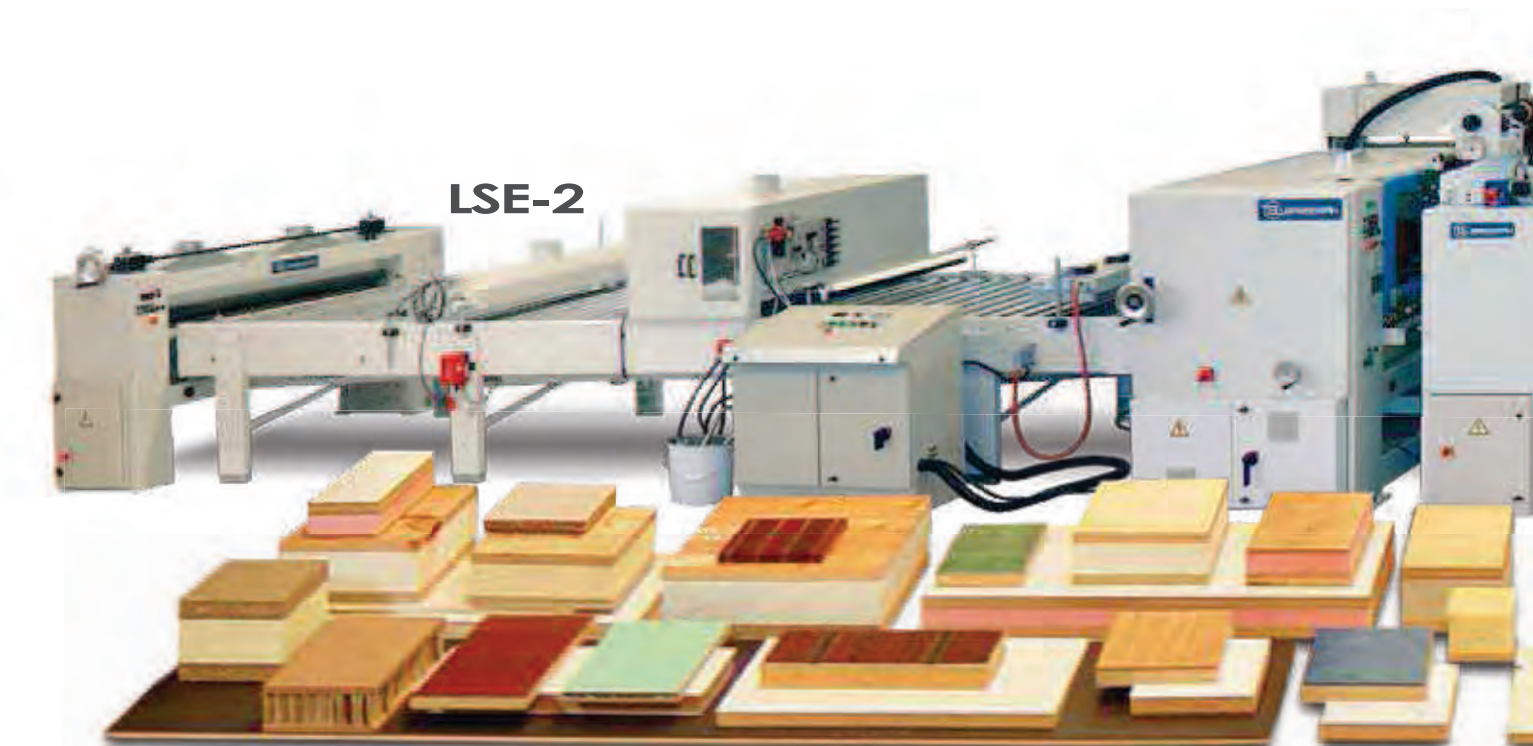
## LSE-2



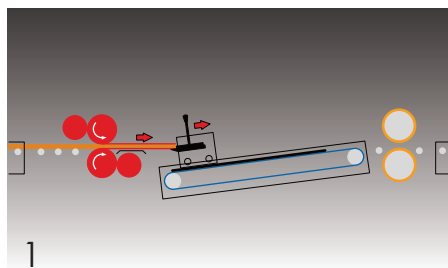
The semi-automatic panel gluing lines are composed of brush cleaning machine, deionizer table, primer table, table with lamps IR for preheating, hot melt glue spreader (double sided), pressing calender, working station composed of table, indexing station, transversal trolley for panel movement, pressing calender, outfeed table.

The table lowers so that the trolley can take the head of the double sided glued panel and place it on the lower laminate that is already on the table. The table has a lateral motorised movement in order to be able to work on the line with a centred workpiece.

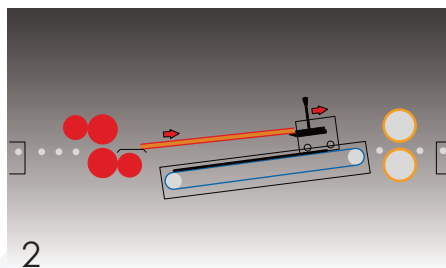
## LSE-2



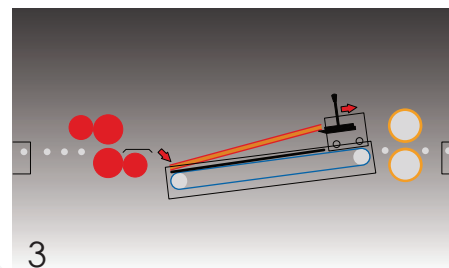




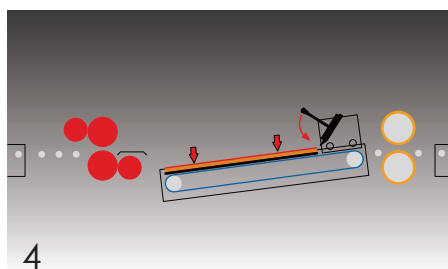
1  
The table lowers so that the trolley can take the head of the double sided glued panel.



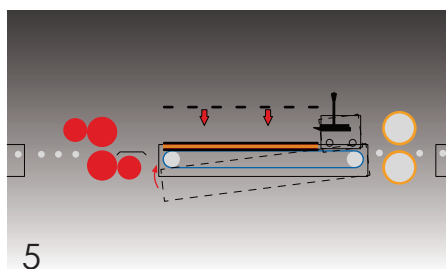
2  
The trolley brings the double sided glued panel over the lower laminate, which is placed on the table beforehand.



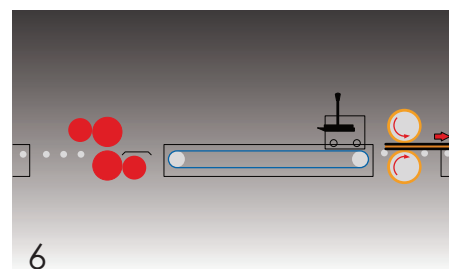
3  
The rear head of the panel falls with accuracy on the same end of the laminate.



4  
The operator releases the other end of the panel and it falls on the lower laminate.



5  
The table is lifted up and the laminate stocking rack unit comes nearer to the operator in order to place the laminate on the upper face of the panel.



6  
Once that the operator has placed the laminate on the panel, it goes through the calendering machine.

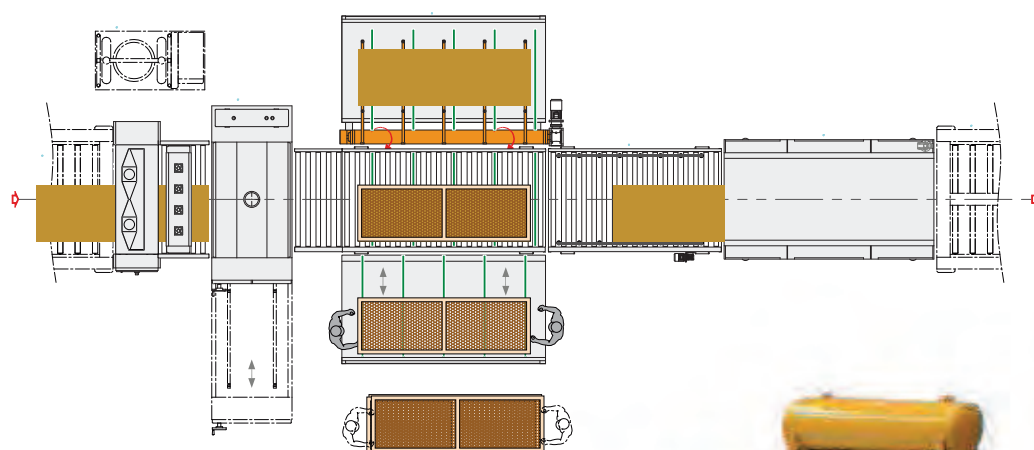


# Semi-automatic line for assembling honeycomb doors

## LSE-5

Installation for the assembly of doors with honeycomb consisting of a door skin infeed table, a PUR glue spreader that applies glue on top of the skins, a transport system that transfers alternating glued skins to the right, where the table for door frame manual positioning is placed, and to the left, where a table with a suction cup turning device is placed to put the glued skin onto

the frame once it is mounted on the bottom skin - it works on two levels: the first level is used for the distribution of the skins and the second one is used for the final placement of the upper skin onto the frame - and finally a press, that retains the assembled door for a few seconds before it is fed out of the line.



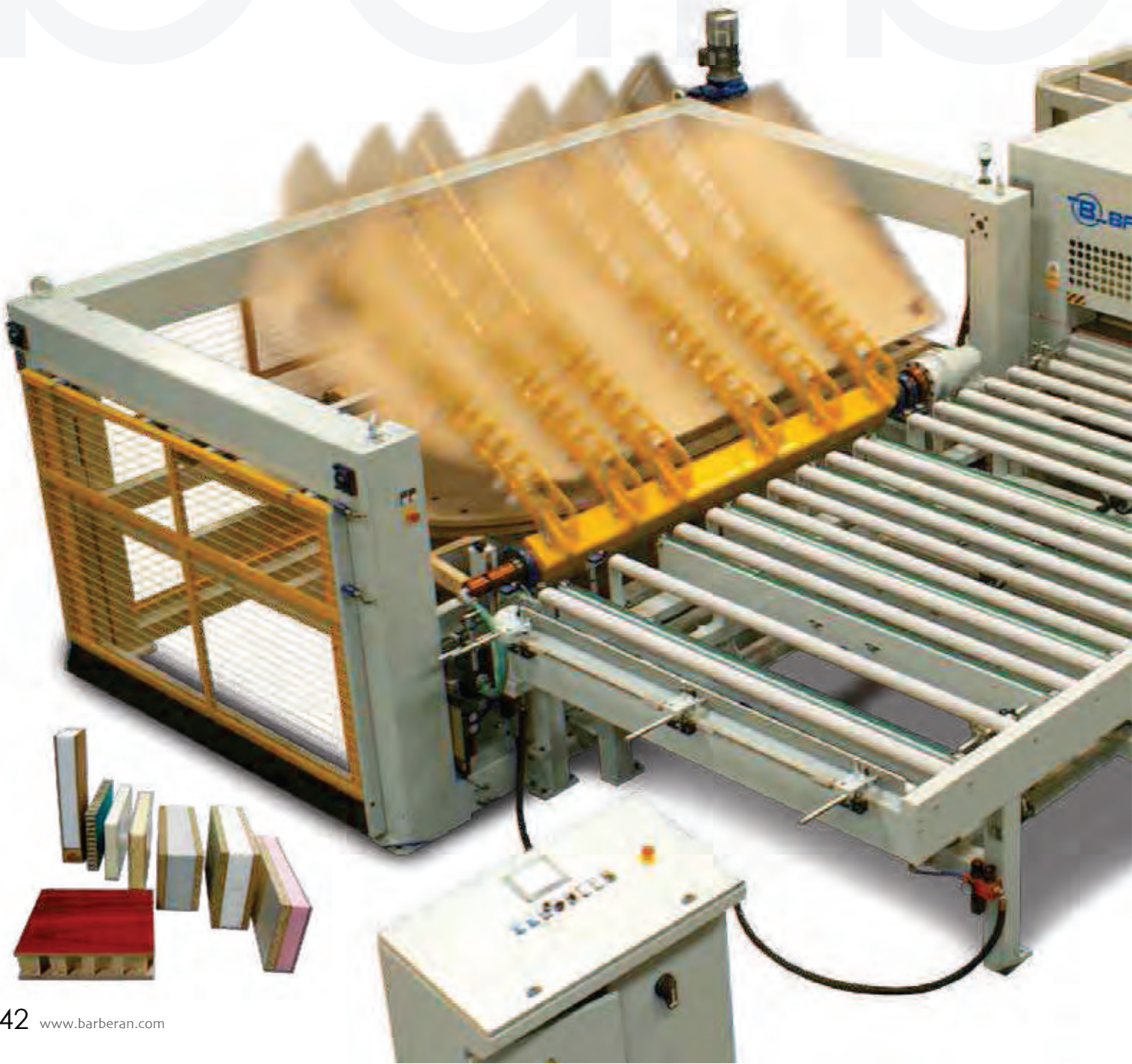




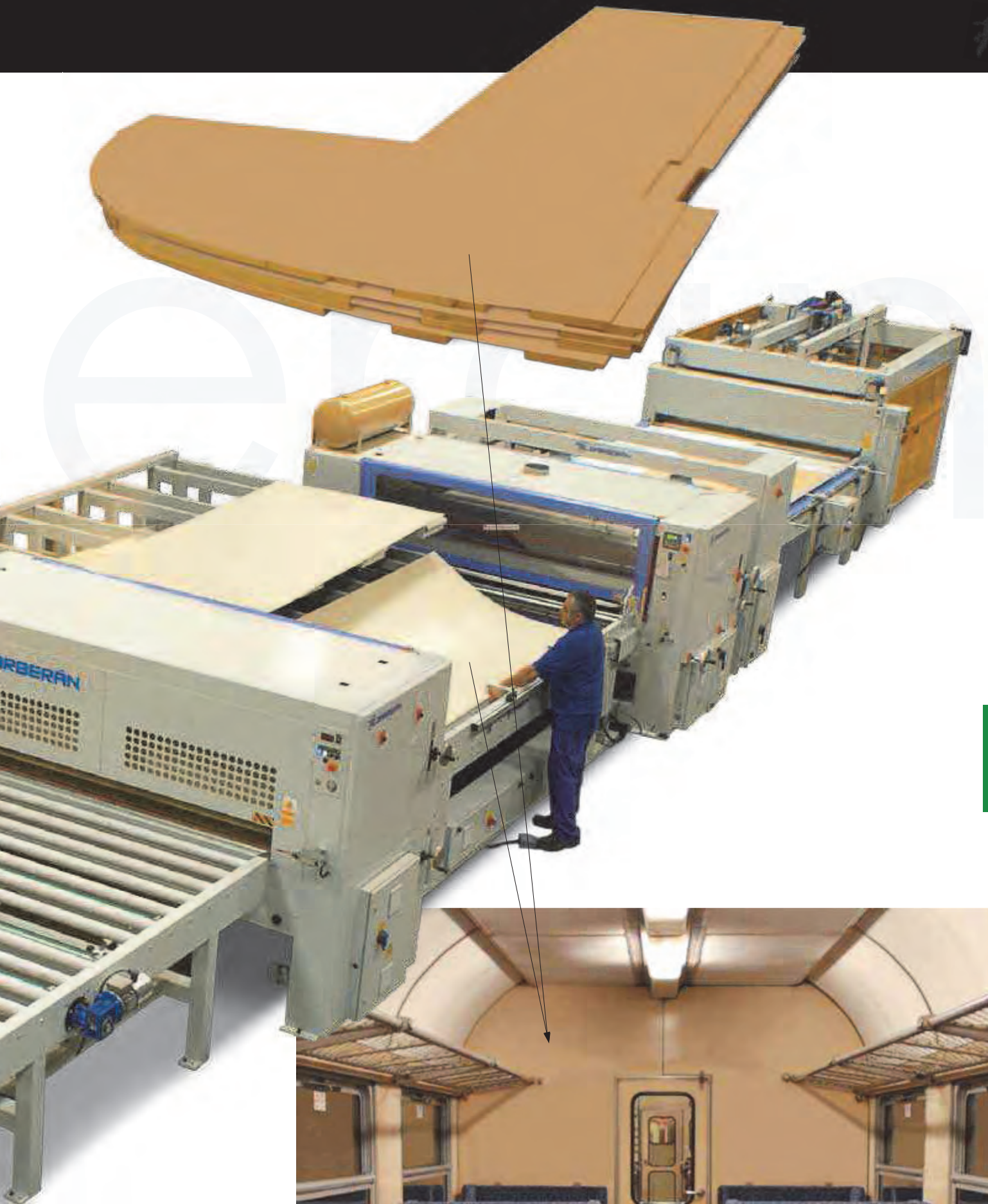
# LSE-6

Indexing line for large heavy panels consisting of a suction cup panel feeder, a conveyor table, a brushing machine, an infra-red lamp zone IR lamp for panel preheating, a PUR glue spreader for the

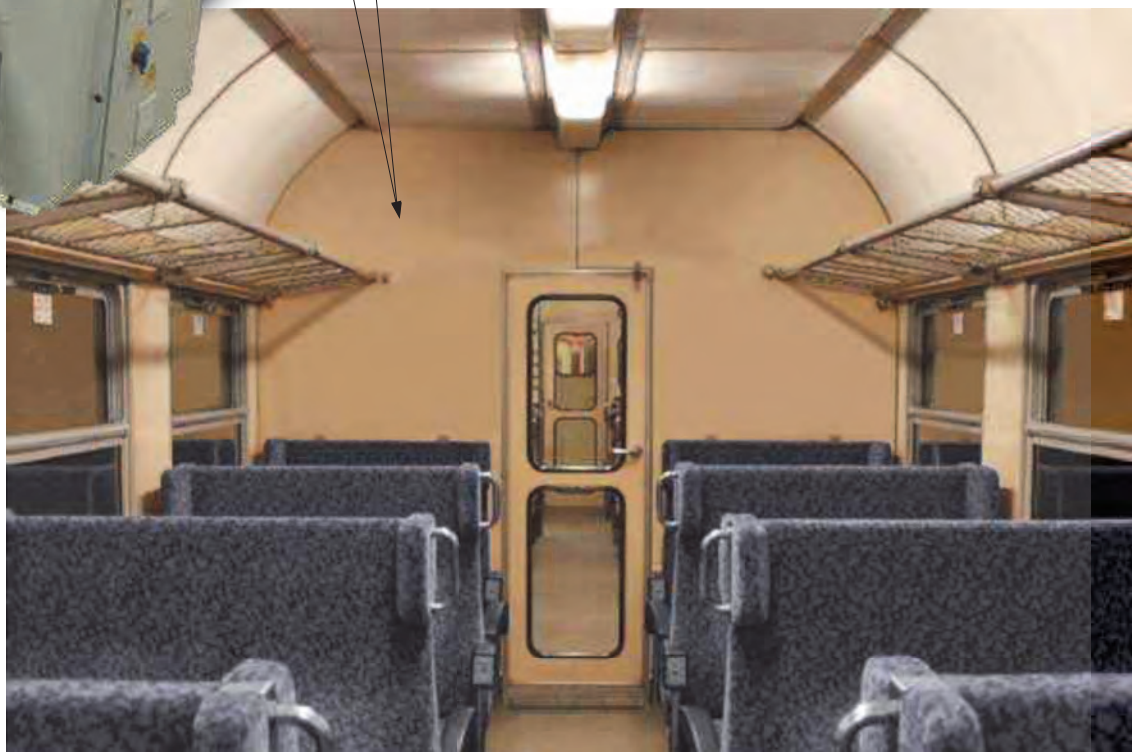
application of glue onto both sides of the panel, an indexing table for panel top and bottom side, a pressing calender, an outfeed table with a suction cup turning device and a panel stacking area.





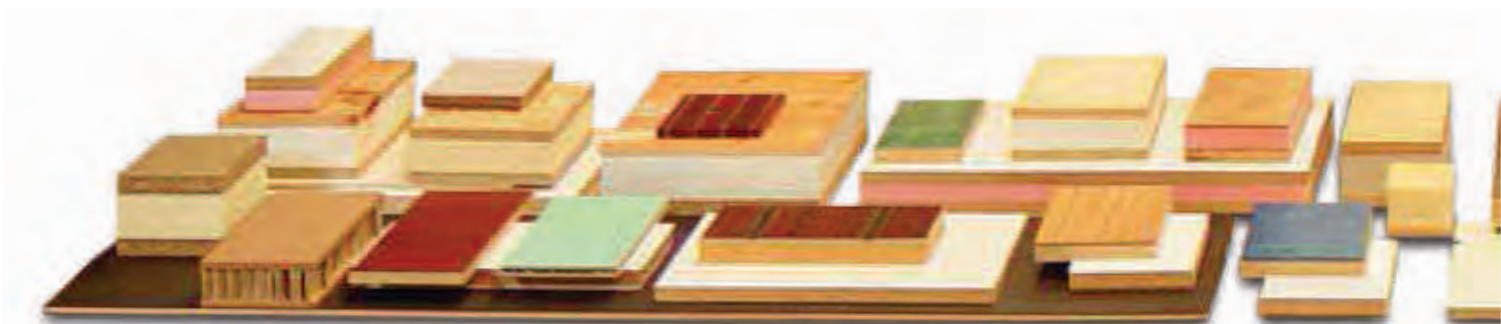


GLUING

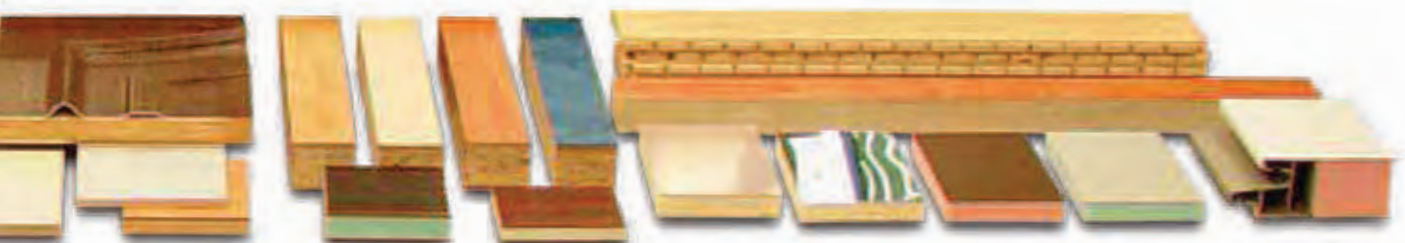


## LSE-7

Indexing line to be used in laboratories for testing hotmelt glues composed of a singlesided glue spreader, an indexing table and a calander.







# Panel feeding and stacking

## AP

### **AUTOMATIC BOARD FEEDER**

It is composed of a motorized lift table and a motorized longitudinal loader. The lift table raises until it detects the upper board. The lift table stops. The pneumatic loader pushes the board to the first conveyor table of the line and returns to the start position allowing the raising of the lift table to load a new board. The process is full automatic. Platform of the lift for board loading. Centralized manipulation from the control board. Protection fence incorporated. When opening the access gates, the whole system stops as per EC standards.



## APD

### **AUTOMATIC THIN BOARD FEEDER**

It is composed of a motorized lift table, a longitudinal pneumatic loading device with suction cups and a group of driven introduction rollers. The lift table raises until the loading device detects the upper board. The lift table stops. The suction cups raise the board and insert him in the driven introduction rollers. They load the board at the first conveyor table of the line. The feeding rhythm is adjusted from the control board. Protection fence incorporated. When opening the access gates, the whole system stops as per EC standards.





# DPD

## AUTOMATIC THIN BOARD STACKER

It is composed of a lift table with 2 pneumatic adjustable centring devices and pass detector for the motorized descend of the table, board by board. A pinch roller placed upon the last driving roller of the prior table introduces the board in the lift table. The centring devices act automatically before the board is stopped. Incorporated protection fence and photocell barrier.

When opening the access gates, the whole system stops as per EC standards. Unloading from the platform through forklift. Centralized adjustments from control board.



# ATT

## AUTOMATIC SCISSOR STACKER FOR BOARDS

It is composed of a scissor lift table with adjustable guides including a photocell with reflector to level the table and board detector to start the motorized lowering of the table, board by board. A pinch roller placed on the last driving roller of the table before introduces the boards fully inside the lift table. Table of the raising device with driving rollers to unload the pile with boards.



# Examples of panel gluing lines

**LAE-5**



**LSE-3**

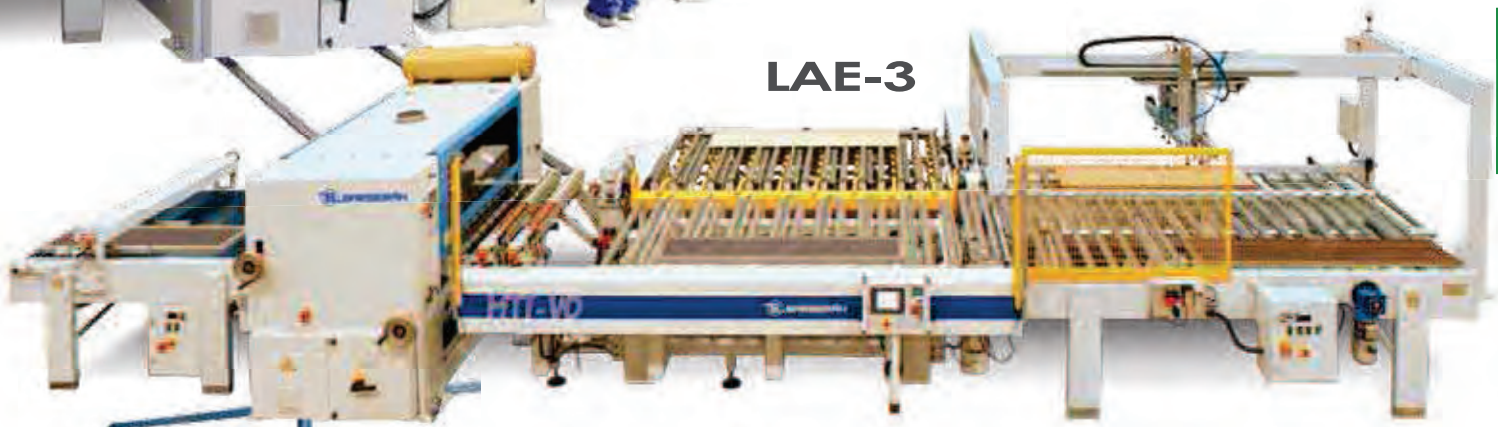






**LAE-3**

GLUING



**EN-4-PU**

**ENS-PUR**





# Coating

## HOT COATING

### high gloss

#### **ONE OF THE PROCESSES THAT HAS AROUSED MORE INTEREST WAS THE HIGH GLOSS FINISHING ON MELAMINE BOARDS.**

This completely new process, patent pending by Barberan, uses the product HotCoating from the german adhesive manufacturer Kleiberit, which allows to apply this product directly on the melamine surface without the need to apply primer first. The HotCoating presents exceptional adhesion properties, providing an excellent strength at the same time. The process is interesting, not only for melamine surfaces on MDF boards, but also melamine laminated particleboard panels. For this kind of finishing, Barberan has developed a specific roller coater that achieves, with a single application, the finish quality that is so far only possible when spraying guns or lacquer curtains are used. The roller application system is smaller, saves more than 50% coating product, as far 100% solid content lacquers are used, and involves a much more efficient and solvent-free application. Different line configurations are possible but always depending on production requirements. Starting from the application of UV top coat directly on the HotCoating up to the combination of HotCoating, UV base and top coat and sanding for a spectacular finish quality. The effectiveness of this process was duly tested on different application fields of the furniture and decoration industries where a melamine coated particleboard or MDF board was involved. This process solves the typical difficulties of this type of treatment, with a simple and compact line that improves the product properties, resistance and durability, above those results obtained with conventional UV systems.





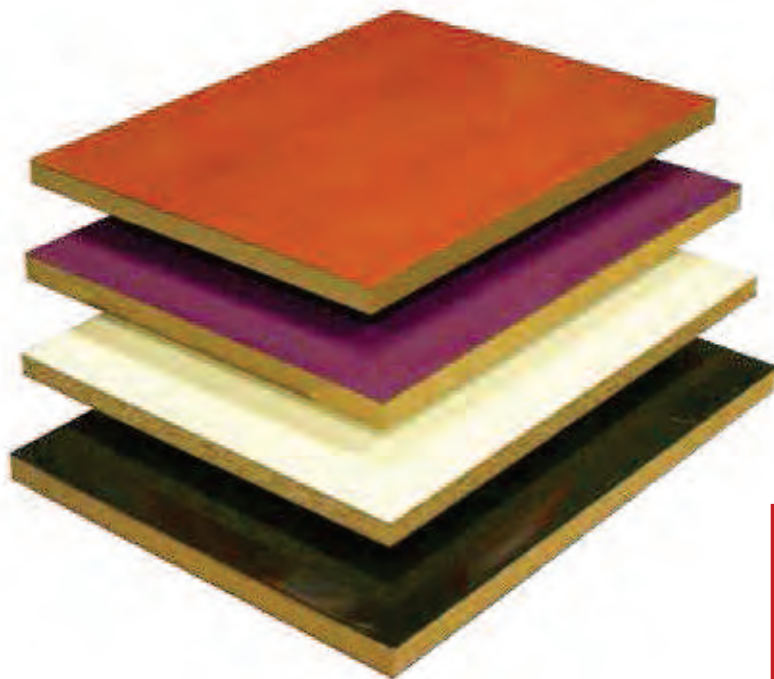
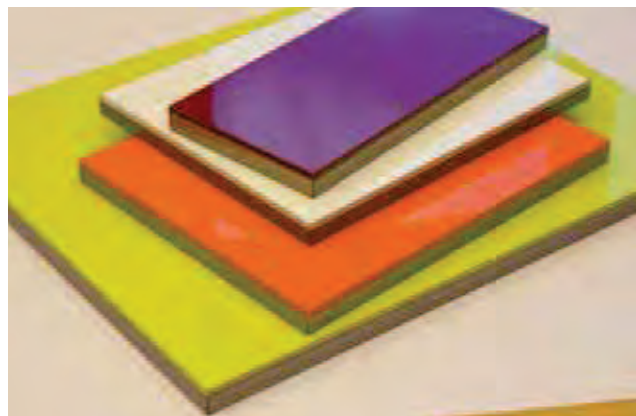


Combined with the BIJ digital printing technology, this system allows to create totally customized boards eliminating the stocks with a high versatility when it comes to deliver different designs or small quantities without increasing costs.

### Ejemplo de aplicación

**Alto brillo / High gloss:** Hot Coating 20 gr/m<sup>2</sup>, Fondo UV 40 gr/m<sup>2</sup>, Barniz UV 60 gr/m<sup>2</sup>.  
UV Base coat UV Top coat

**Mate - Satinado / Matt – semi-glossy:** Hot Coating 30 gr/m<sup>2</sup>, Fondo UV 40 gr/m<sup>2</sup>, Barniz UV 20 gr/m<sup>2</sup>.  
UV Base coat UV Top coat



COATING

# Coating

## HOT COATING



### **LÍNEA DE BARNIZADO TERMOFUSIBLE (HOT COATING)**

Este nuevo sistema de barnizado, sencillo y económico, se basa en una nueva línea de barnizado desarrollada por BARBERÁN, la cual emplea un nuevo barniz de poliuretano termofusible; Hot Coating® de Kleiberit.

Este tipo de barniz permite:

- Aplicación, en una sola mano, de gramajes de 10 hasta 50 gr/m<sup>2</sup> con un alto grado de cubrición.
- Permite el alisado en húmedo eliminando la necesidad de un posterior lijado.
- No precisa túneles de secado excepto para el secado de la capa final de acabado ultravioleta.

Las características únicas de este barniz, en conjunción con la máquina MENH, especialmente desarrollada por BARBERAN para este tipo de aplicación, genera dos grandes ventajas:

- Tamaño de línea mucho mas corto.
- Costes operativos mucho mas bajos.







ETOM



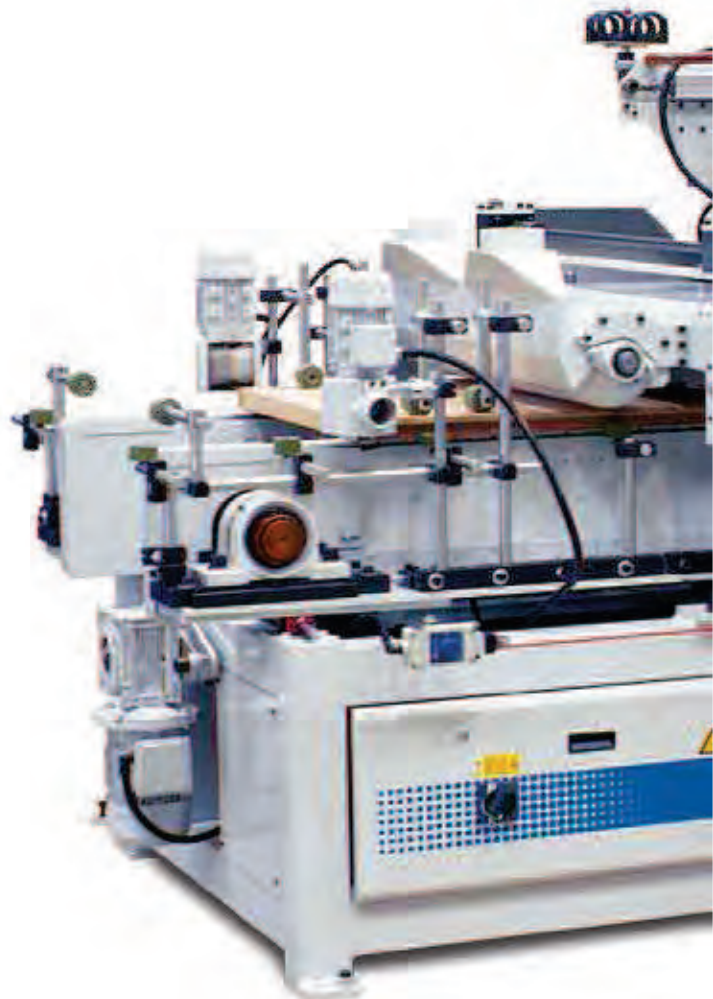
# Panel wrapping machine

## PUR-101-L-C

Machine with conveyor chains, designed for the gluing and application of rolled material on panels, made of MDF, particleboard, low quality wood, etc. (optionally PVC and/or aluminium), by means of a slot nozzle for PUR or EVA hot melt glue.



Conveyor chains





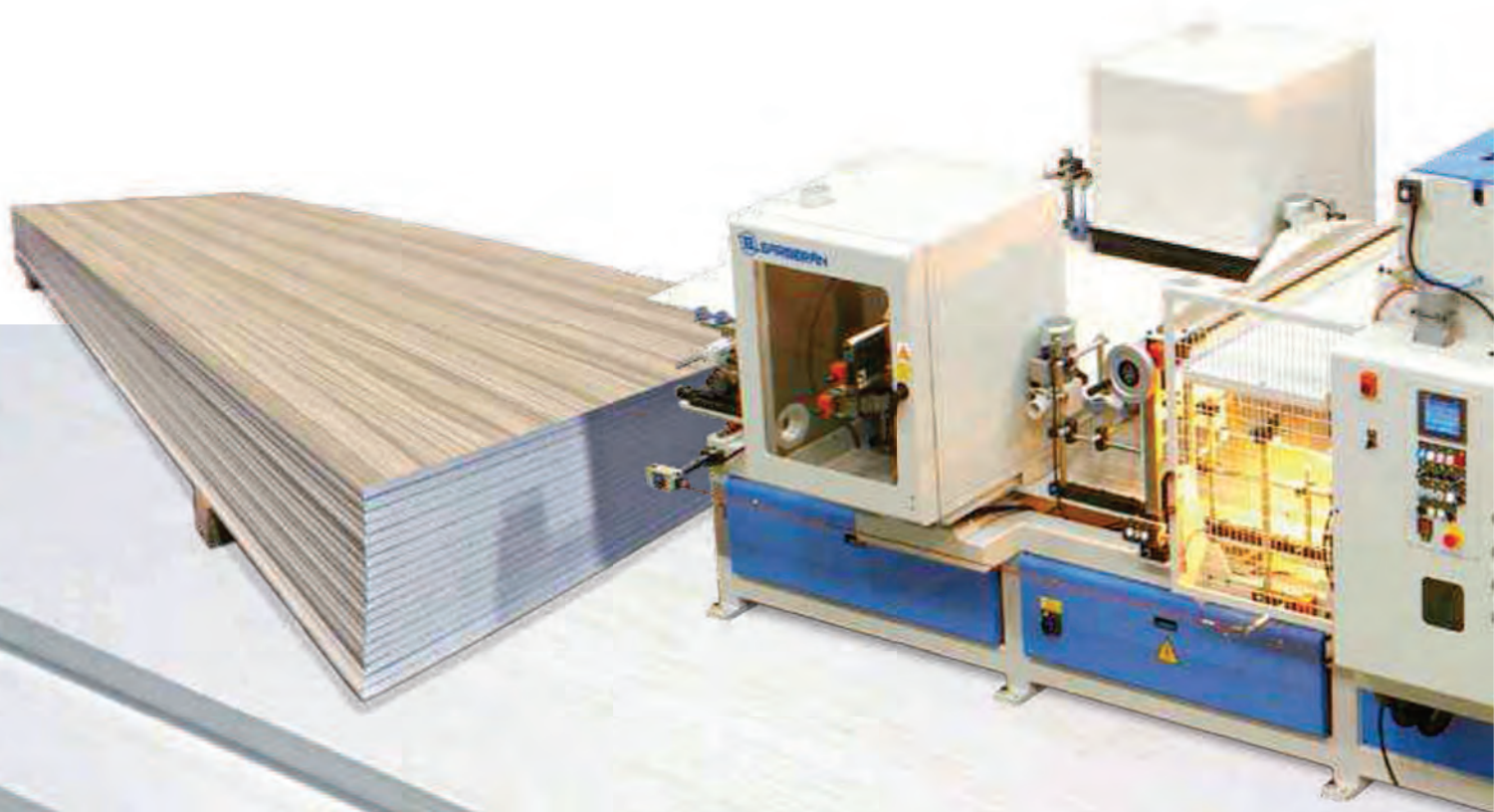




# Lamination with PVAc glue

## SP-1000

Machine for laminating and postforming paper or PVC foil on **gypsum panels** previously overlayed with paper. These panels are used mainly in the indoor construction and decoration branch.

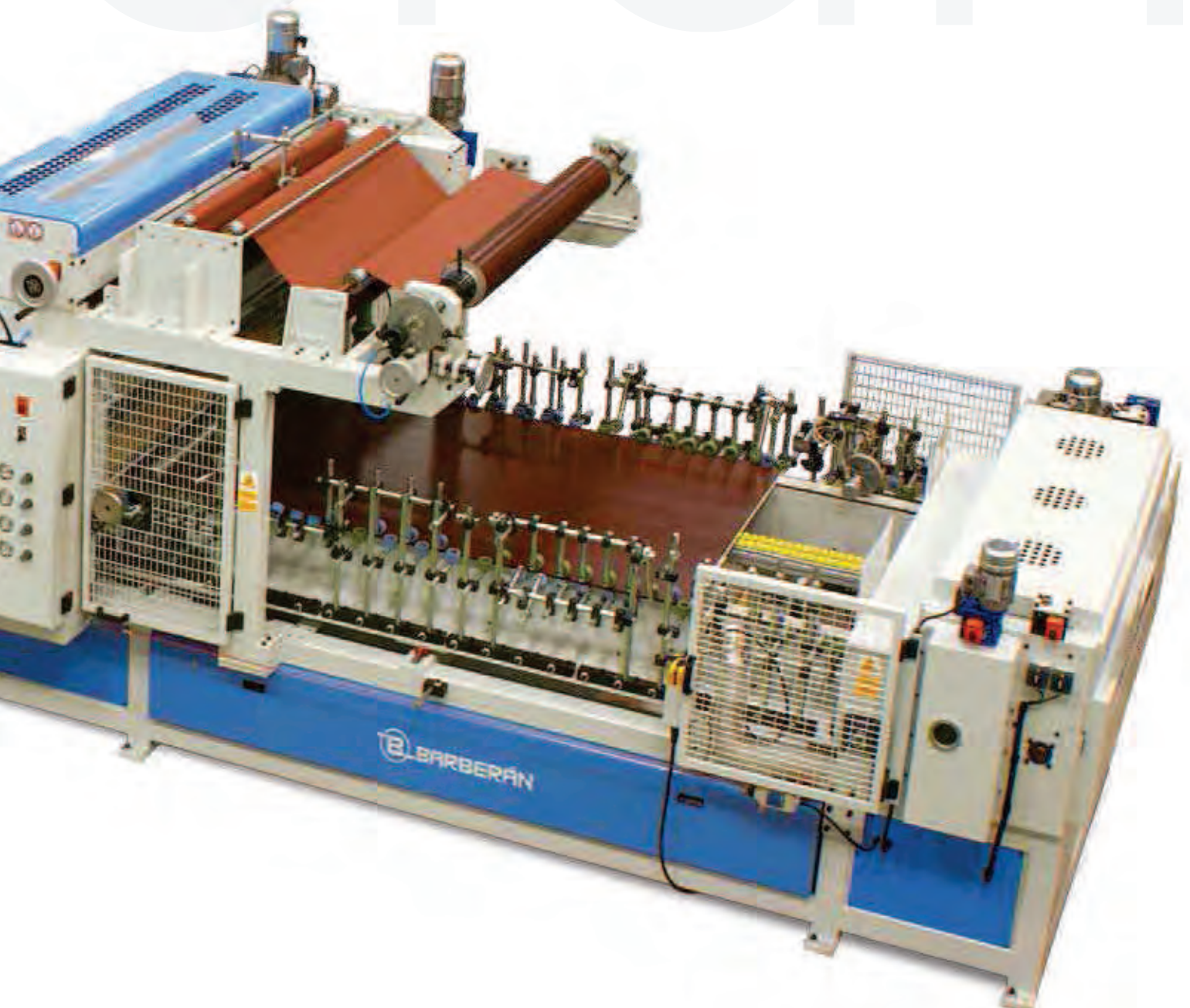
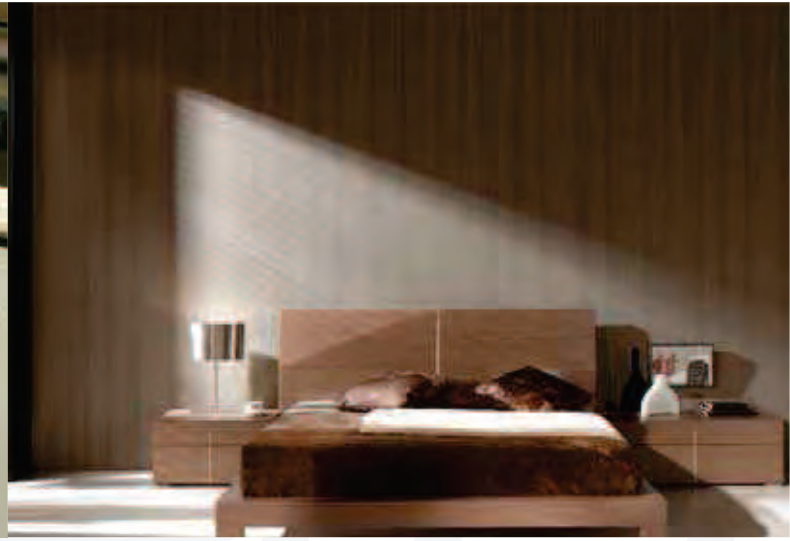


## GYPSUM PANELS





## gypsum panels

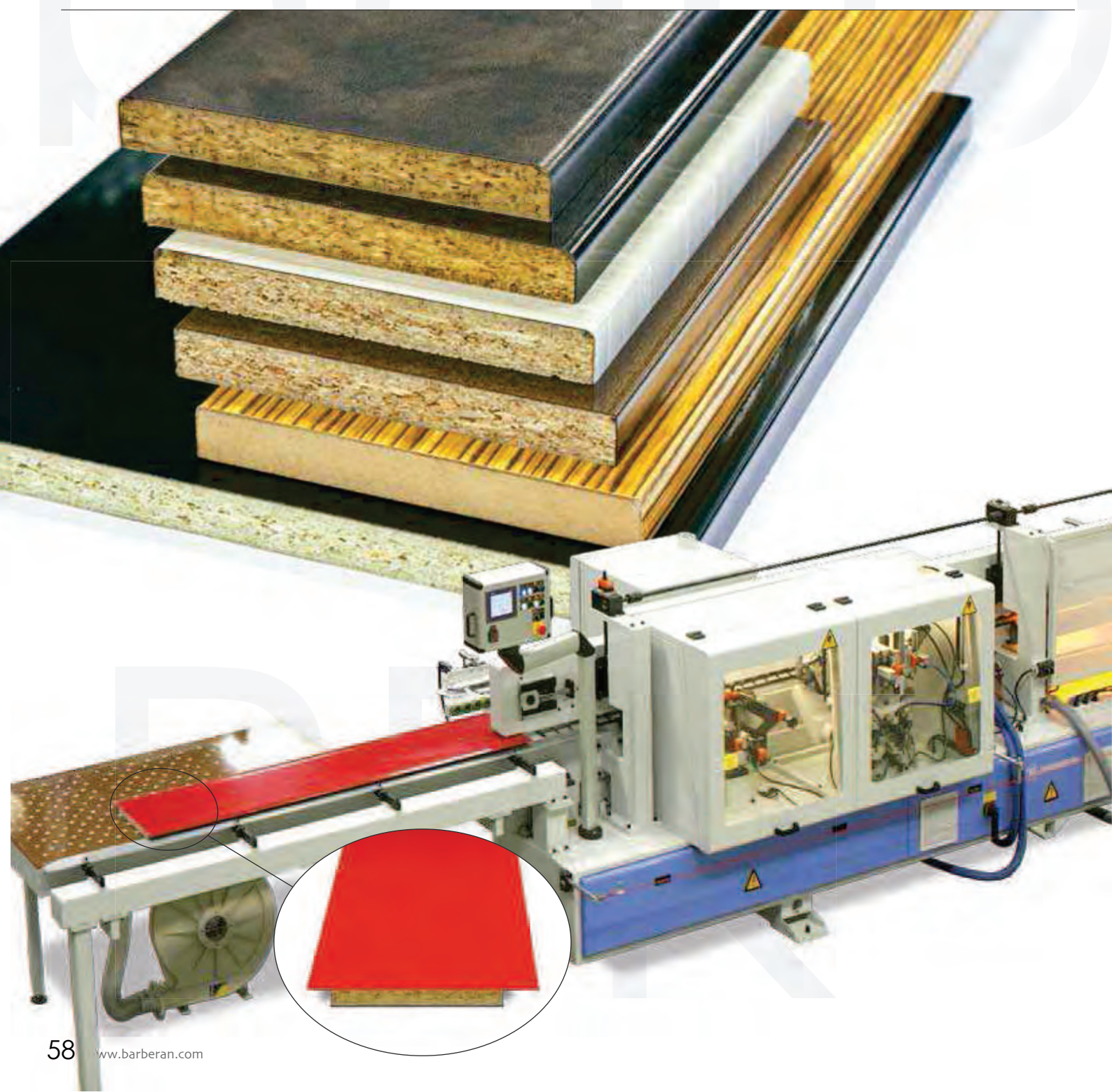




# Single sided edge postforming machine

## PFK

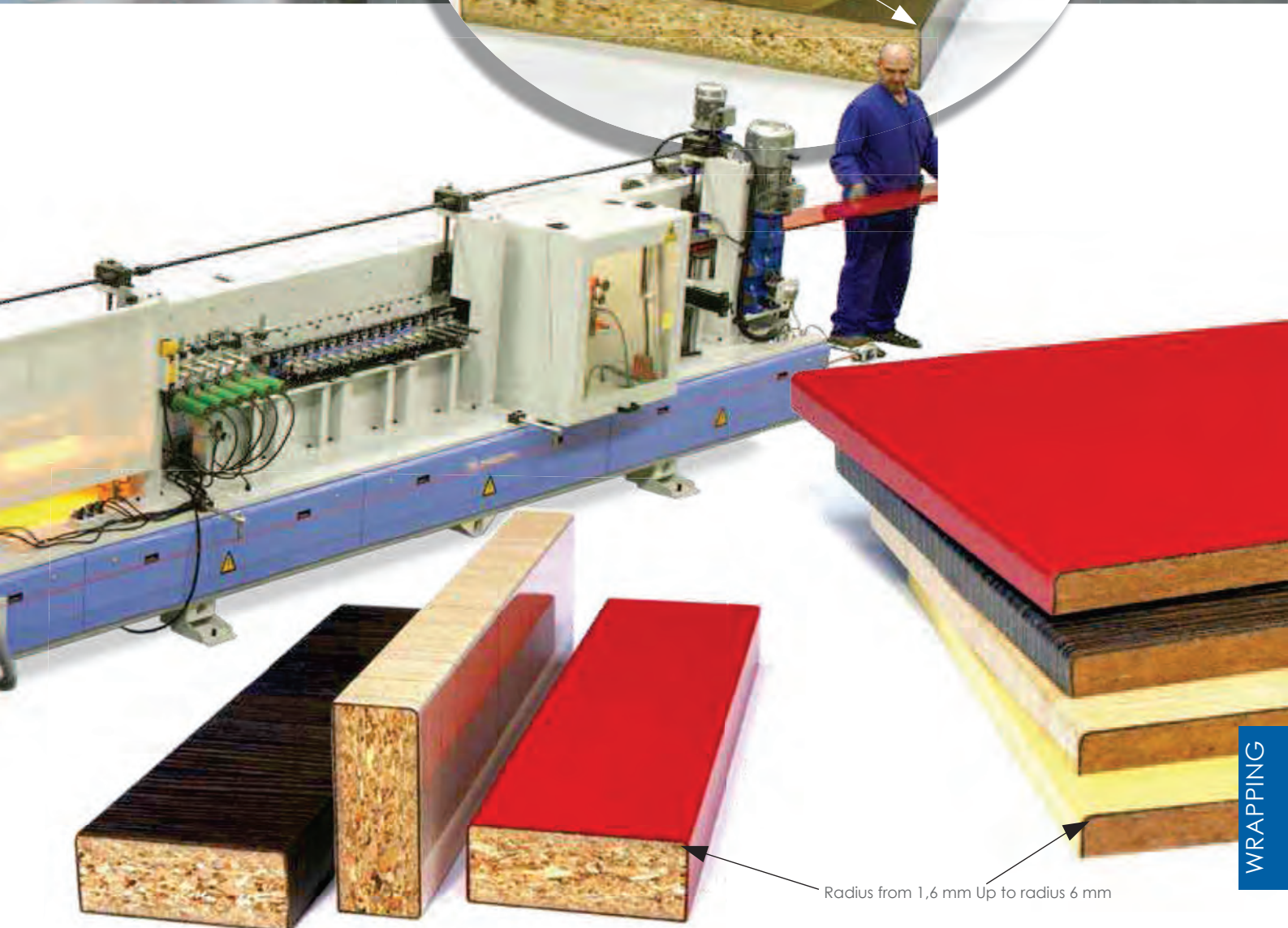
Machine designed to postform edges with a minimum radius of 1,6 mm and a maximum radius of 6 mm. The postforming panel must have straight, unshaped edges, and the postforming laminate already glued to the top panel face.







Radio desde **1,6 mm** Hasta 6 mm  
Radius from **1,6 mm** Up to radius 6 mm



Radius from 1,6 mm Up to radius 6 mm

WRAPPING



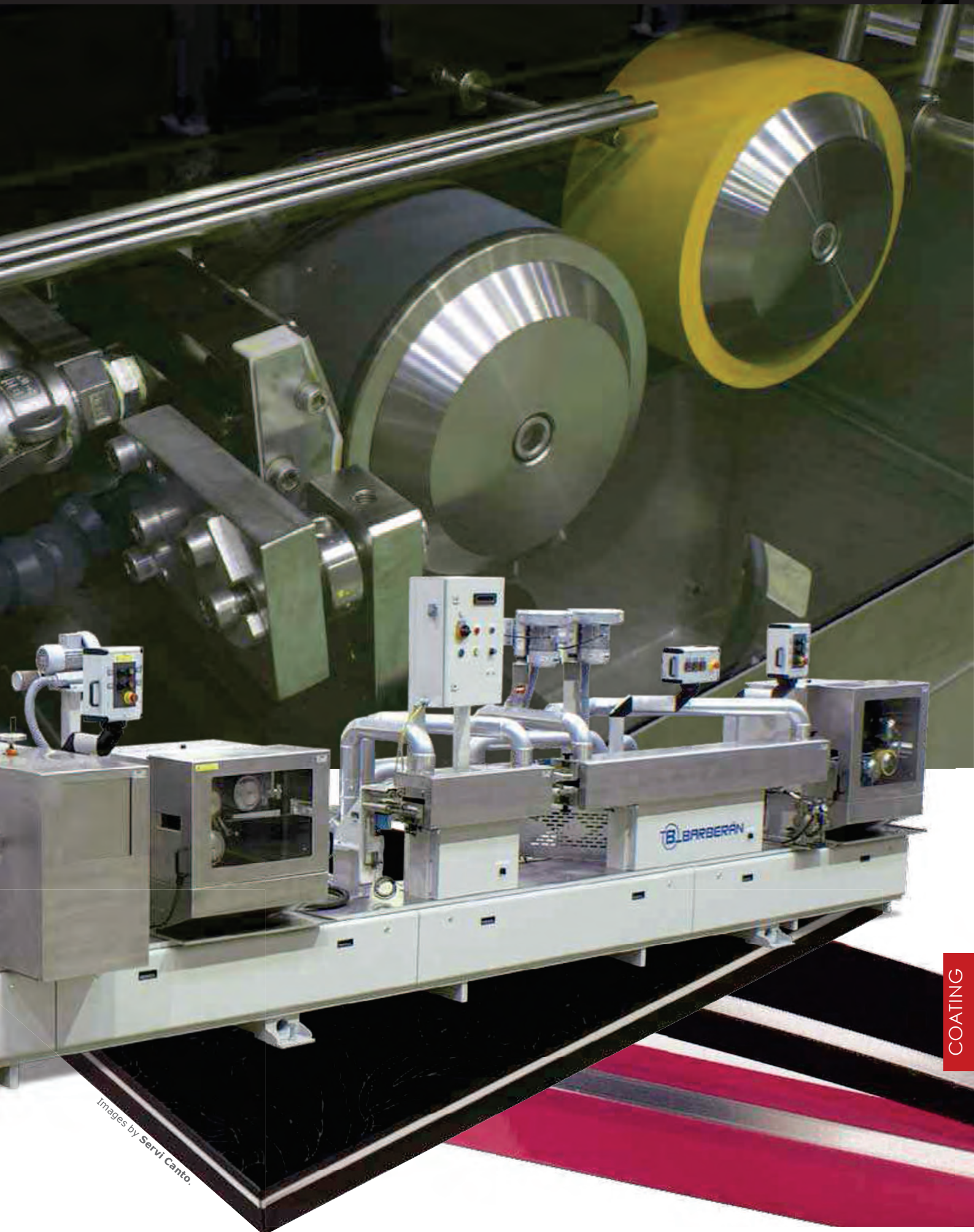
# PVC foil for edgebanding

## MBC-150/2

Line for the application of primer and lacquer and wood grain printing through inkjet or engraved roller on PVC foils for edgebanding.







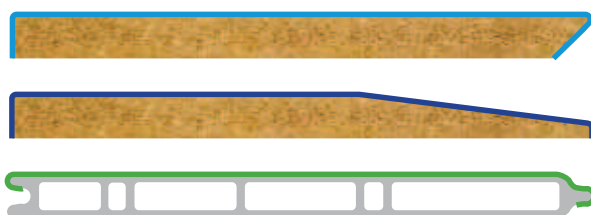
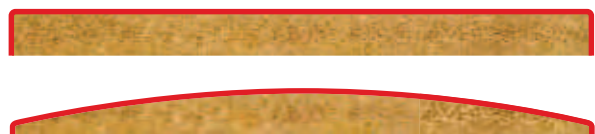
Images by Servi Canto.

# Laminating and postforming installation

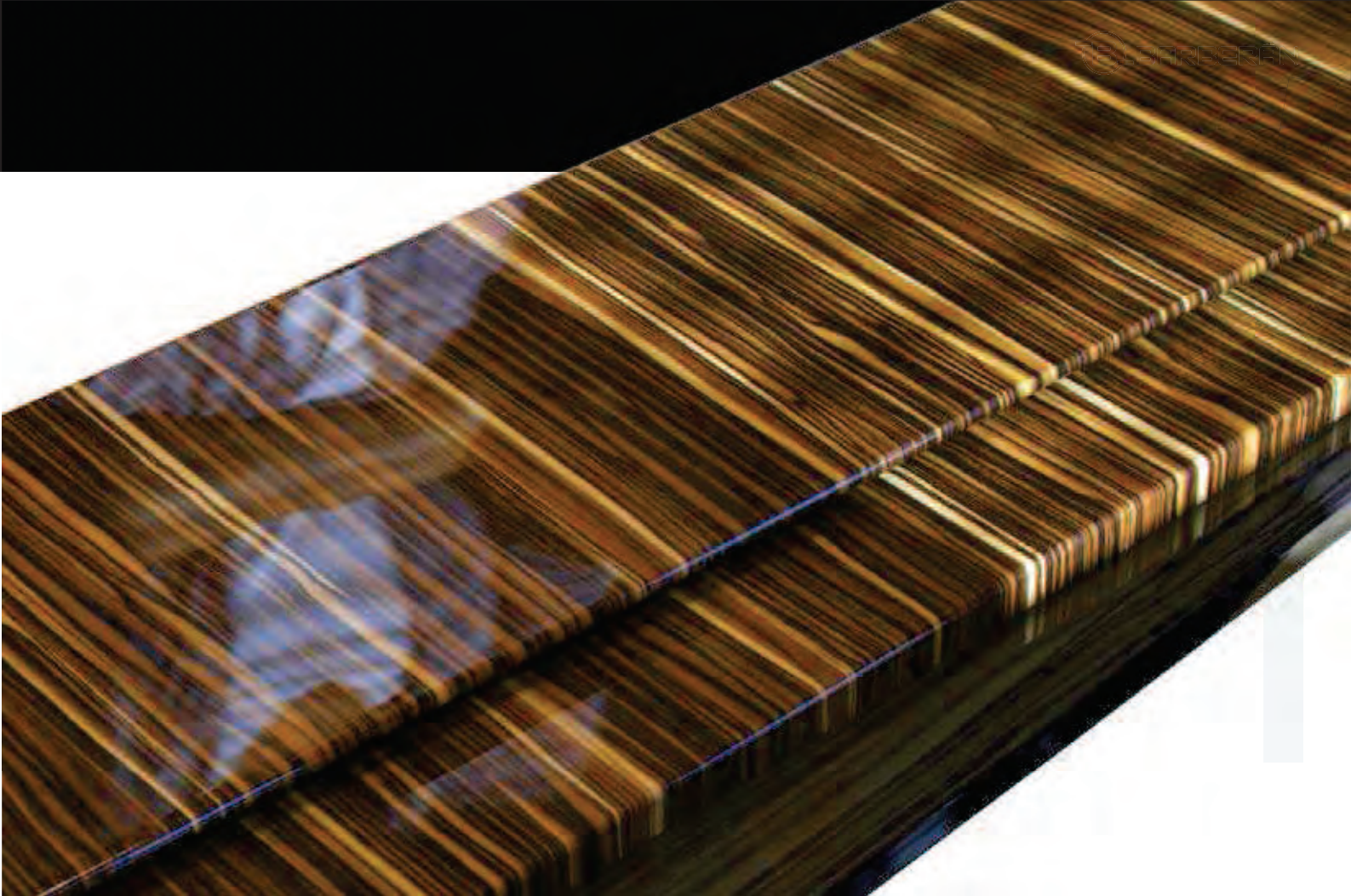
## **SPEED PRESS 1000**

# HIGH GLOSS

Laminating & postforming machine model SPEED PRESS 1000 for the application of high gloss or matt decorative foils onto the top side of panels made of particleboard or MDF and postform one or both sides. The panels can have different shapes and a maximum width of 950 mm. The machine uses PUR hotmelt glue and the speed can be adjusted from 5 up to 25 m/min.







Conveyor chains





Laminating and postforming  
installation

# HIGH GLOSS SPEED PRESS

Double sided compact laminating & postforming machine for high gloss paper foil or PVC foil on panels using hot melt glues (EVA, PUR, etc).



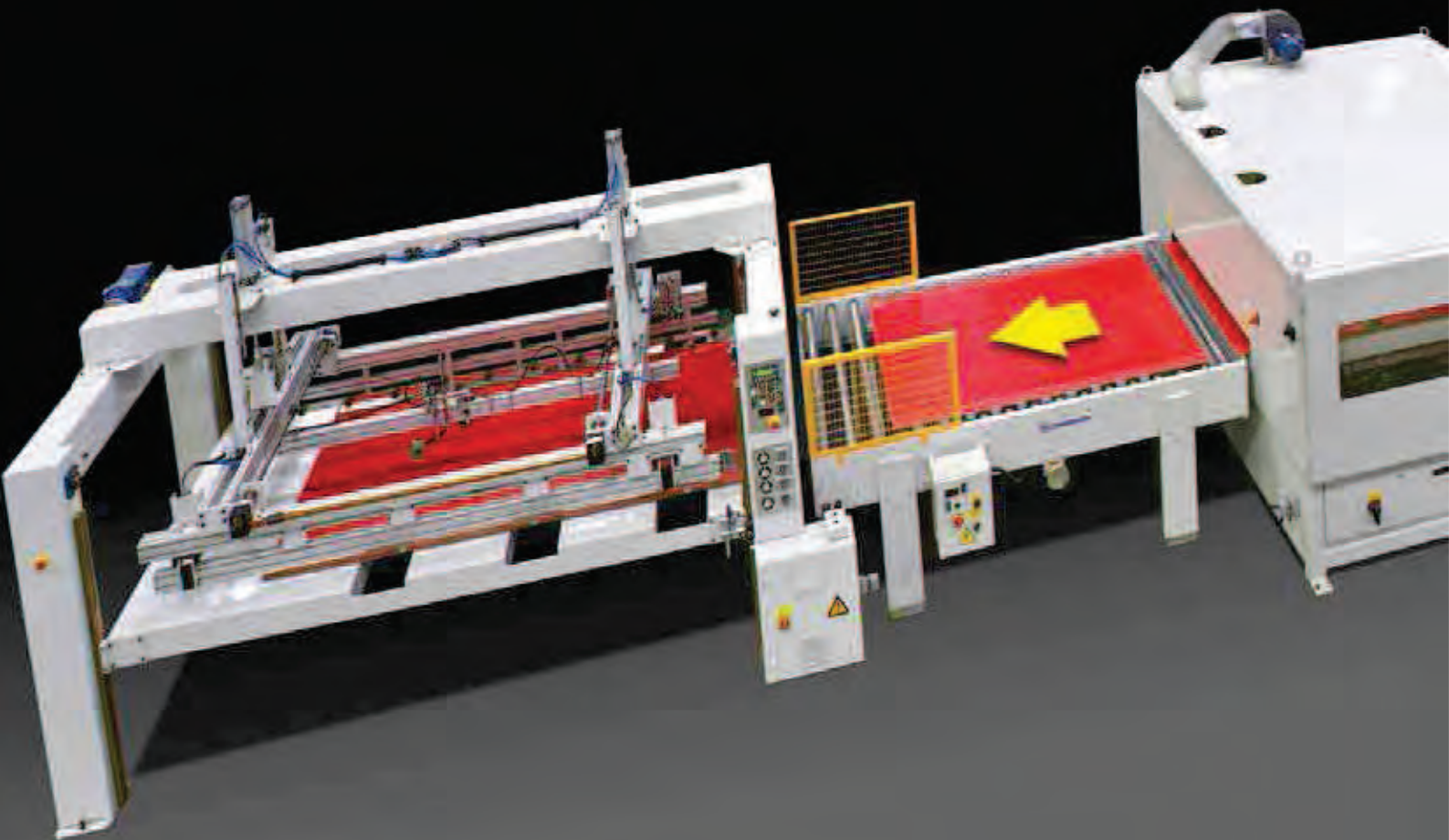




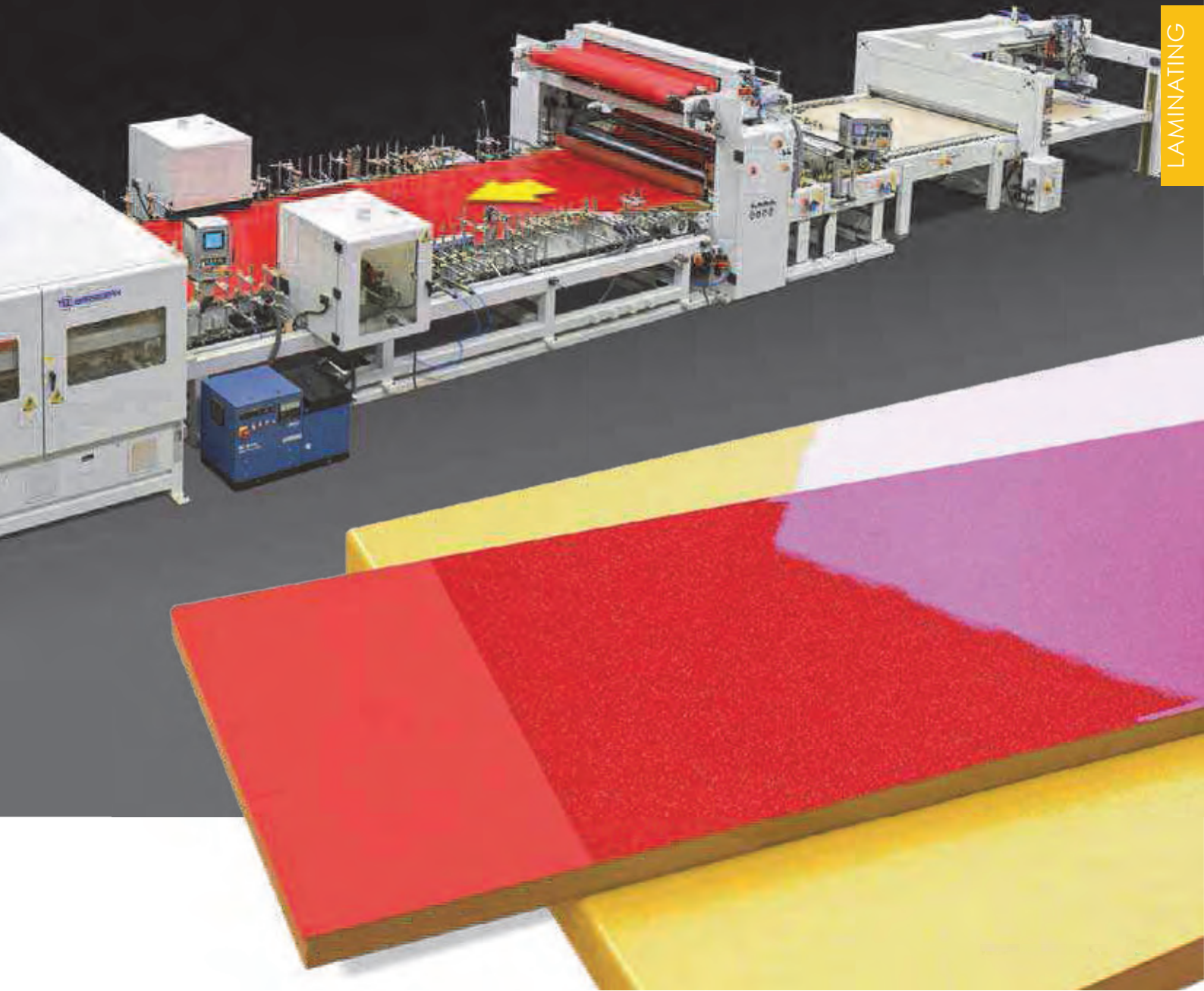
# Laminating and postforming line

INSTALLATION FOR LAMINATING AND POSTFORMING  
PAPER OR PVC FOIL WITH HOTMELT GLUES

Paper and PVC foil laminating and postforming installation on panels made of particle board or MDF composed of a panel feeder with suction cups, a hotmelt glue spreader by means of slot nozzle, postforming zone with molding rollers, lateral hotmelt glue spreading guns to fill the groove where the foil ends to avoid peel offs, cutting saw for panel separation, outfeed conveyor and panel stacking device.







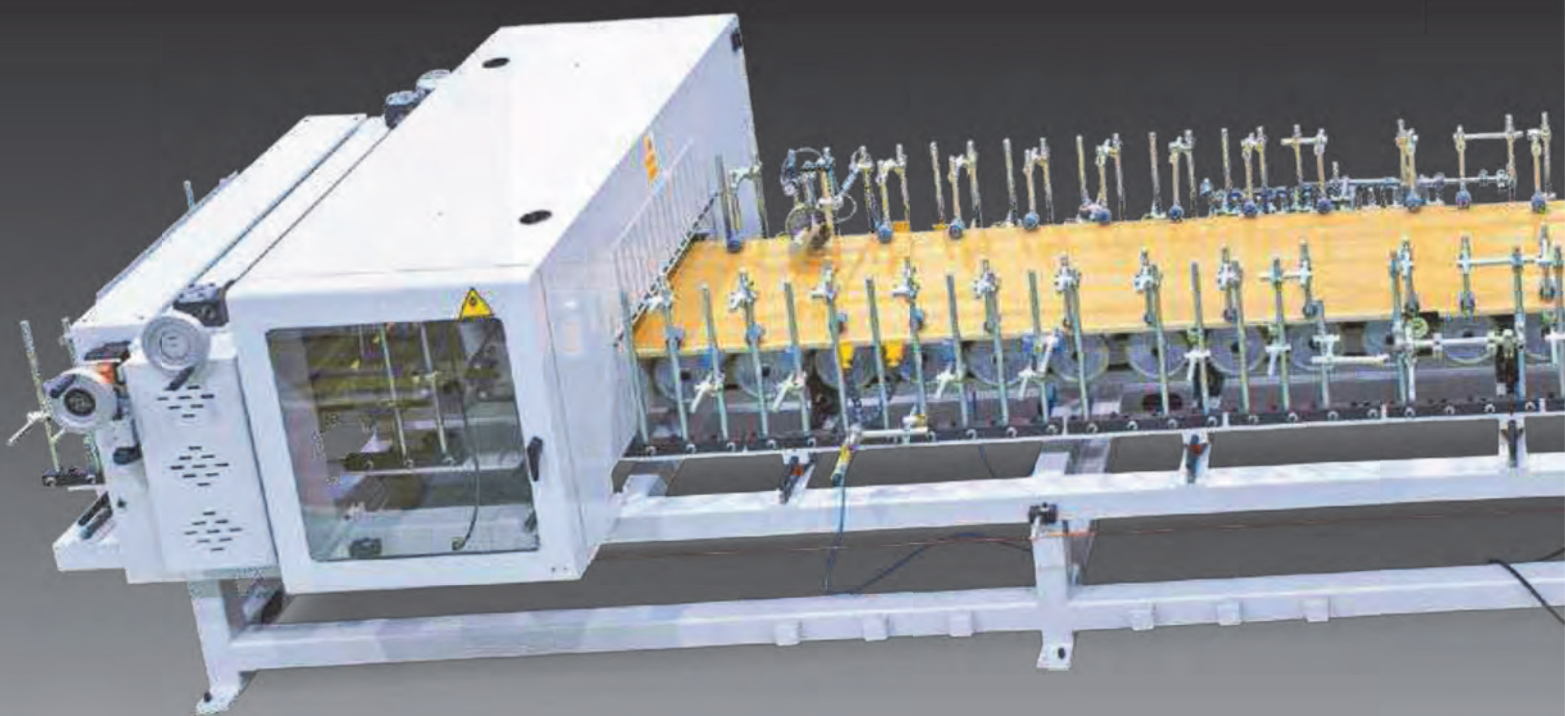
LAMINATING



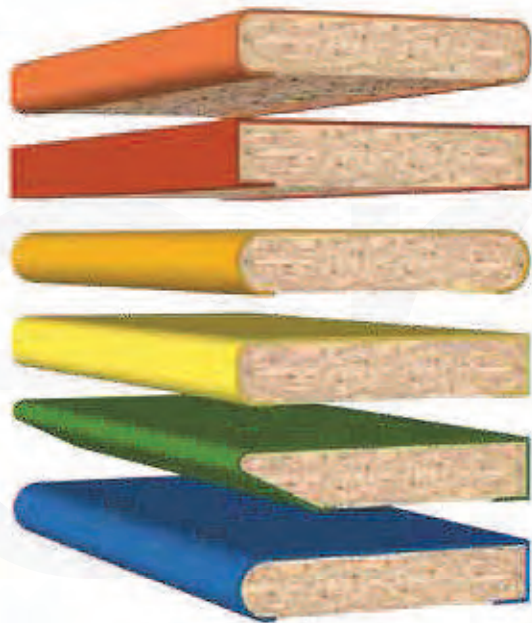
# Compact laminating and postforming machine

## ECO PRESS-PUR

Compact laminating & postforming machine for Paper, Foils, PVC, CPL laminates, with hot melt glues (EVA, PUR, etc.) on foil.



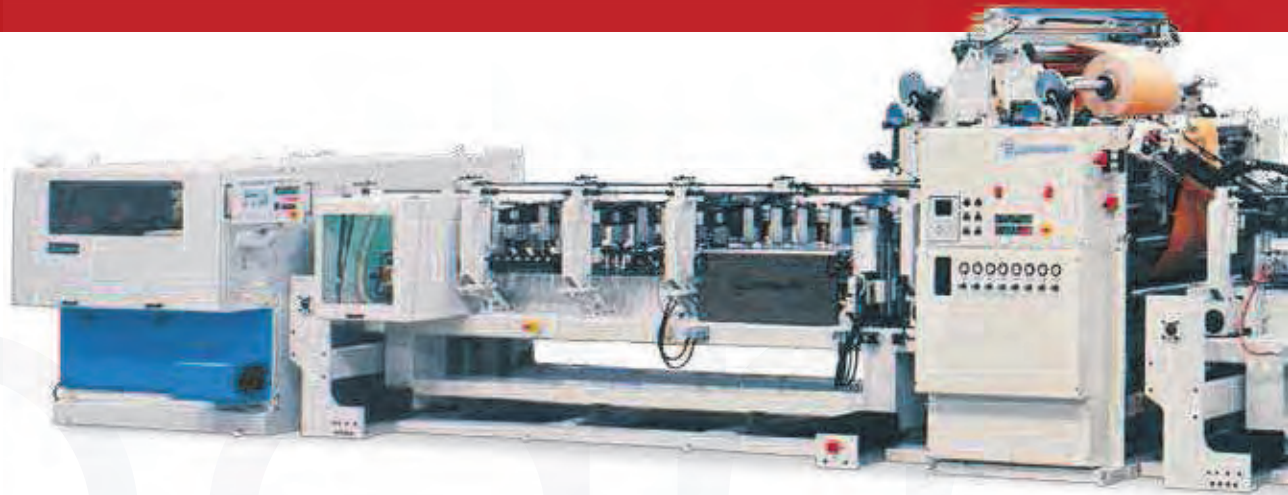




LAMINATING

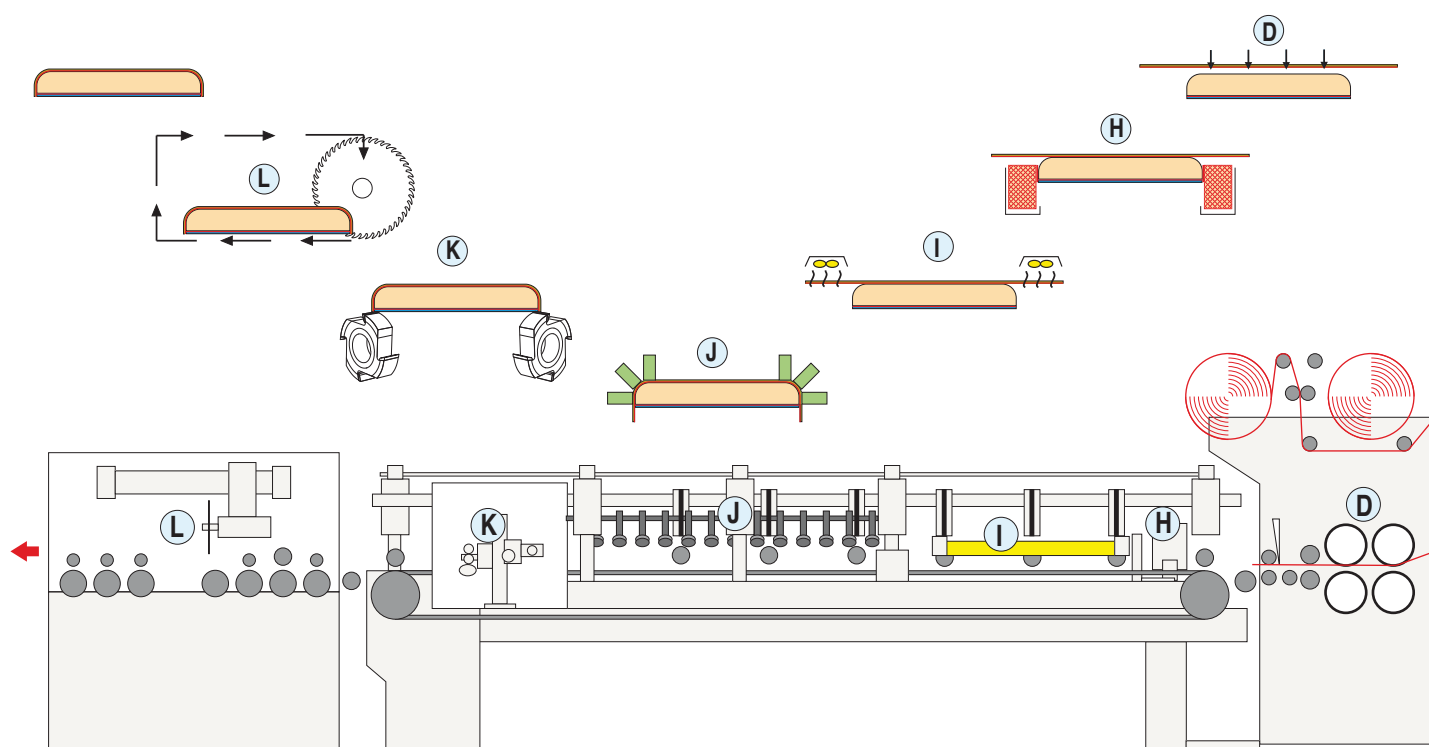


# Laminating and postforming machine

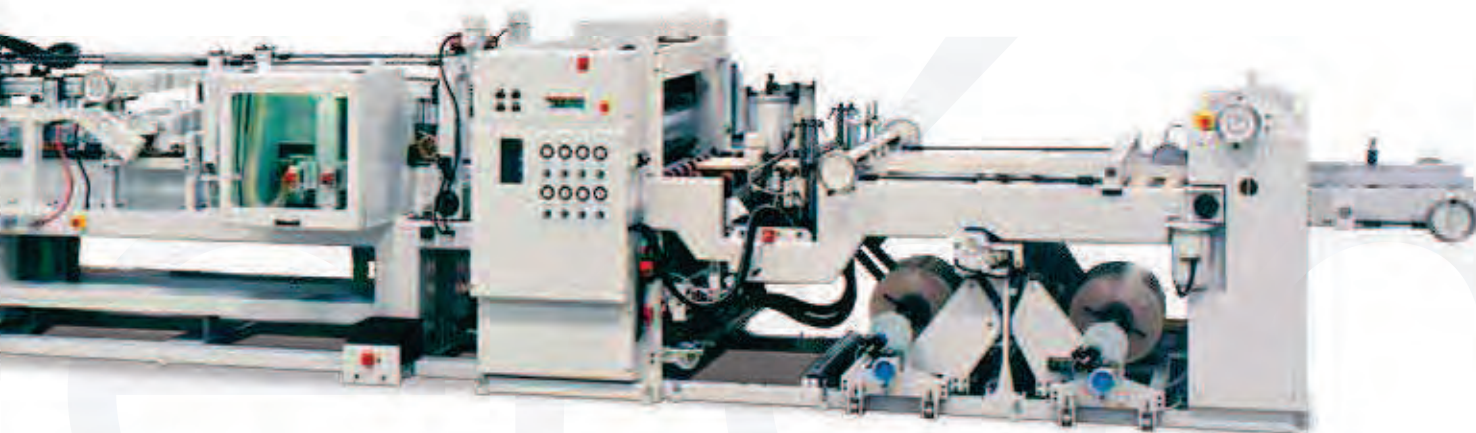


## SPEED PRESS HOT MELT GLUE (CPL)

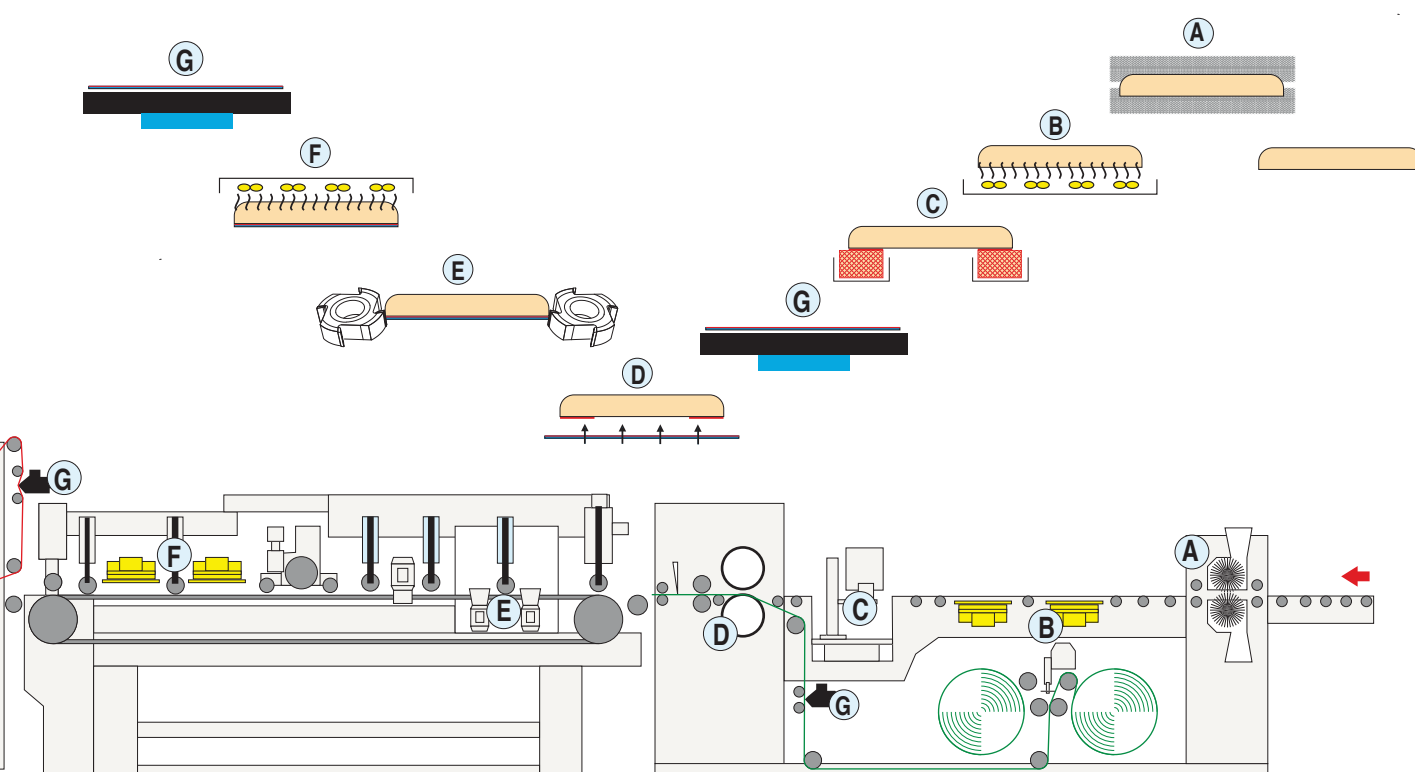
Laminating and postforming machine for foils and laminates (CPL) both side lamination using EVA and PUR glues. The great novelty in this machine is the combined use of PUR and EVA glues. The EVA glue achieves a high working speed and short drying times but less temperature and humidity resistance. In order to solve this inconvenience, BARBERÁN, S.A. has developed a system to apply PUR glue, which has an excellent resistance against temperature and humidity, on the panel ends, which are the most fragile areas. As the panel surface is the most resistant part, it will be bonded using EVA glue, which is in addition to the above mentioned characteristics, more economic than the PUR glue.







The machine is composed of : Panel cleaning brushes, Heating system for the lower part, PUR Glue application rollers for the lower extremes (20 mm) of the panel, Lower double uncoiling station with automatic splicing, Slot nozzle for the application of EVA glue on the lower foil, Heated pressure rollers, Trimmers for the lower foil surplus, Heating system for the upper part, PUR Glue application rollers for the upper extremes (20 mm) of the panel, Upper double uncoiling station with automatic splicing, Slot nozzle for the application of EVA glue on the upper foil, Double pressure rollers, heated independently, Postforming zone, Trimmers for the upper foil surplus, Cutting saw for the separation of panels.



# Machines for specific laminations

## FAST-PRESS & POSTFORMING

Continuous panel wrapping system with low and high pressure laminates using pvac glue.



## SOFT & POSTFORMING

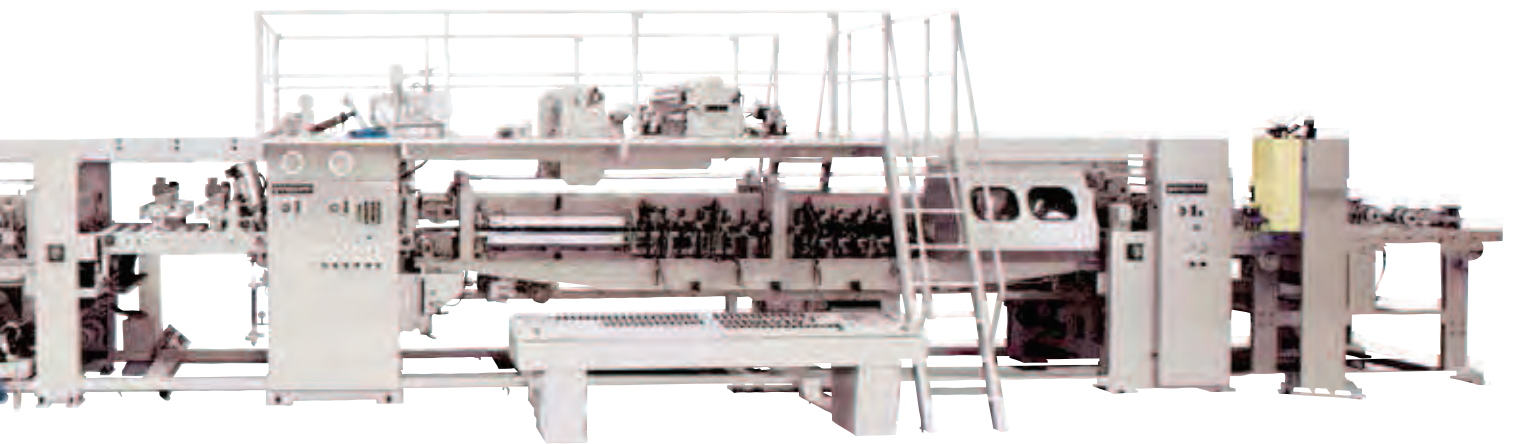
Continuous panel wrapping system with low pressure laminates, paper foils, or alkorcel using pvac glue.



Continuous panel lamination the glue is applied on panel surface and on the foil zone, which will wrap the profiled edge.







LAMINATING



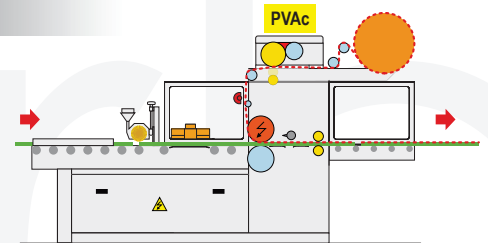
# Lamination with PVAc glue

## KL Series

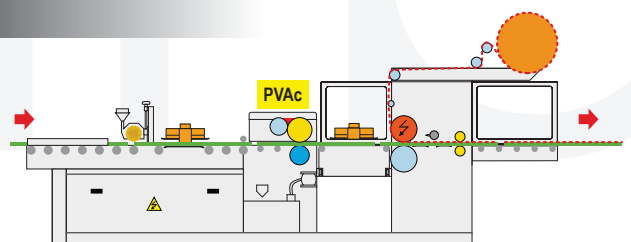
### LIGHT, ECONOMIC AND RELIABLE

The panel lamination is now more affordable and reachable to small and medium companies thanks to the new economic laminator range KL, specially designed to laminate paper or PVC foil using PVAc glues (all models) or paper foil using urea formaldehyde glues (model KL-FP and KL-HH) on PB or MDF boards for the door, furniture industry, etc. Two versions available for foil widths up to 1350 mm (panel 1310 mm) and 1550 mm (board 1510 mm).

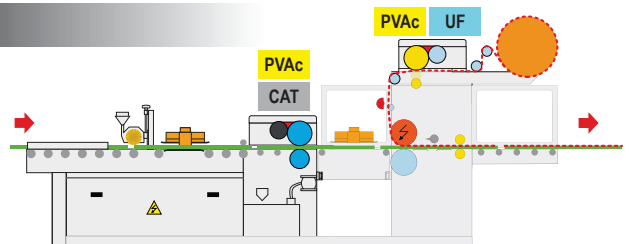
KL-F



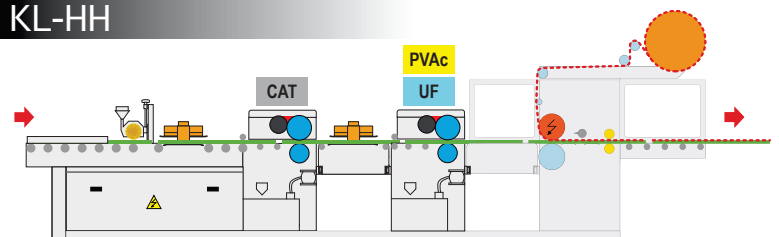
KL-P



KL-FP



KL-HH



			KL-F	KL-P	KL-FP	KL-HH
Aplicación de cola sobre Glue application on Leimauftrag auf Application de colle sur Applicazione colla su Нанесение клея на	FOLIO	PVAc	●		●	
		UF			●	
	PANEL	PVAc		●	●	●
		UF				●







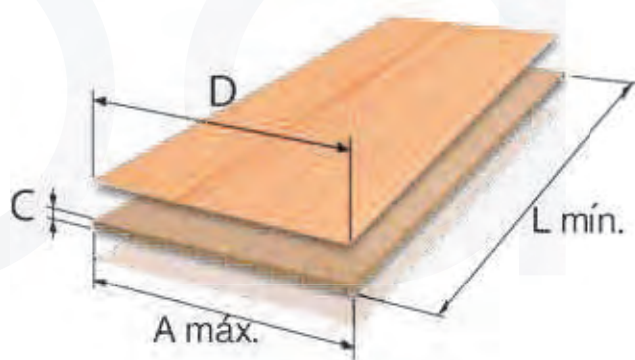
# Laminate up to 1700 mm

## ECOLINE-PUR

Two sides panel laminating machine over film, PVC, etc with PUR glues and rubber rollers.

## ECOLINE-H

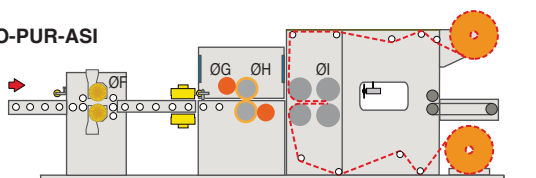
Two sides panel laminating machine over film, PVC, etc with PUR glues and metallic rollers.



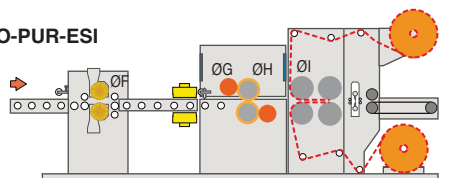
### DATOS TÉCNICOS - TECHNICAL DATA

Mod.	L mín.	A máx.	C	D	FØ mm	GØ mm	HØ mm	IØ mm	Vm/ mín.
ECO-PUR-1100		1000		1050	180	174	245	300	5 - 25
ECO-PUR-1400	1200	1300	3 - 50	1350	"	"	"	"	"
ECO-PUR-1700		1600		1650	"	"	"	"	"

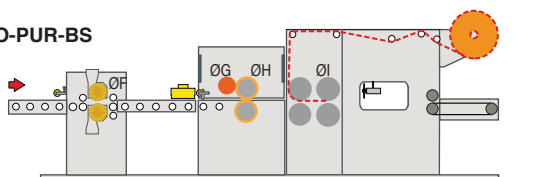
ECO-PUR-ASI



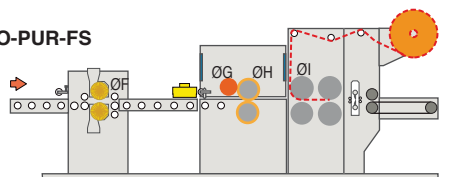
ECO-PUR-ESI



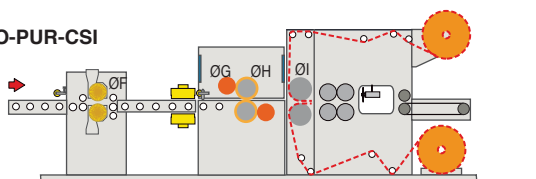
ECO-PUR-BS



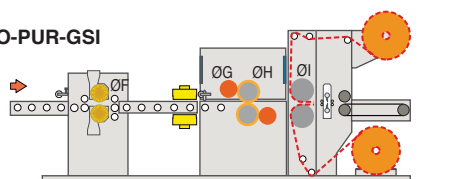
ECO-PUR-FS



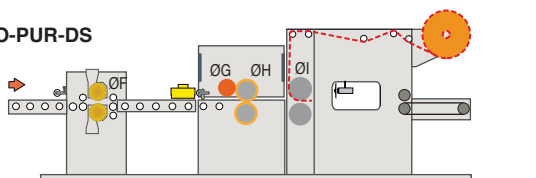
ECO-PUR-CSI



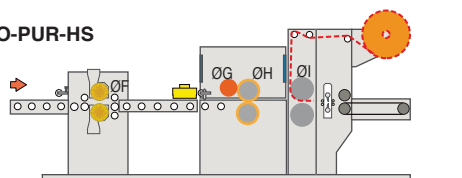
ECO-PUR-GSI



ECO-PUR-DS



ECO-PUR-HS

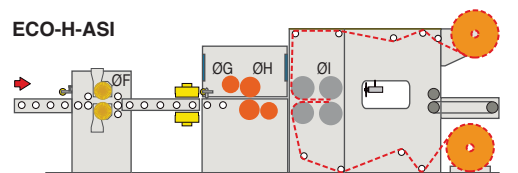
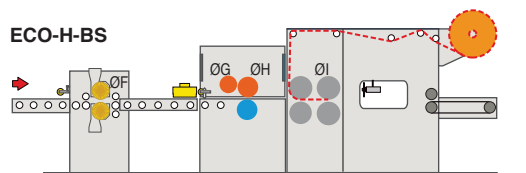
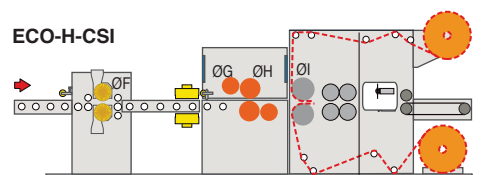
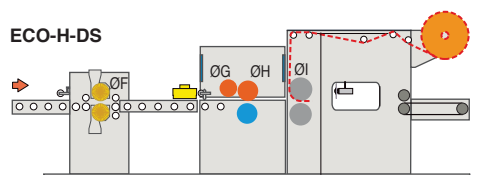
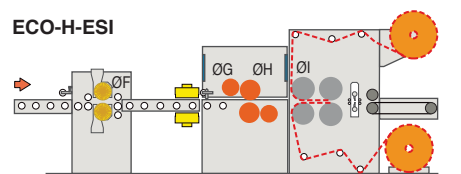
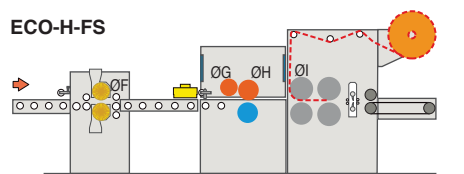
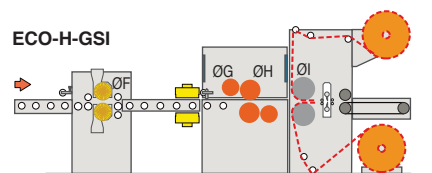
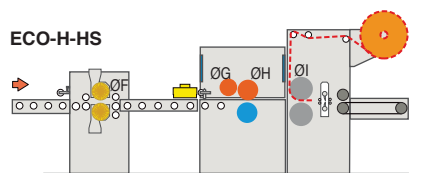






## DATOS TÉCNICOS - TECHNICAL DATA

Mod.	L mín.	A máx.	C	D	FØ mm	GØ mm	HØ mm	IØ mm	Vm/ mín.
ECO-H-1100		1000		1050	180	245	245	300	5 - 25
ECO-H-1400	1200	1300	3 - 50	1350	"	"	"	"	"
ECO-H-1700		1600		1650	"	"	"	"	"



# Laminate up to 1700 mm

## ECOLINE-S

Panel laminating machine over film, PVC, etc. with UF & PVAc glues.

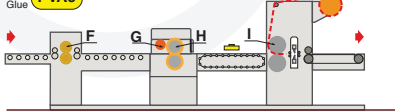
## ECOLINE-SI

Two sides panel laminating machine over film or PVC with UF & PVAc glues.



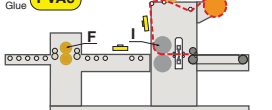
### ECO-AS

Cola  
Glue **PVAc**



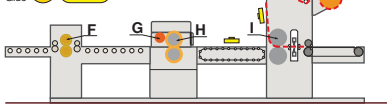
### ECO-ES

Cola  
Glue **PVAc**



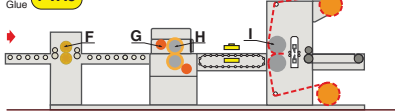
### ECO-GS

Cola  
Glue **UF PVAc**



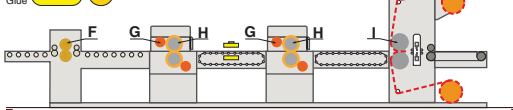
### ECO-ASI

Cola  
Glue **PVAc**



### ECO-CSI

Cola  
Glue **PVAc UF**



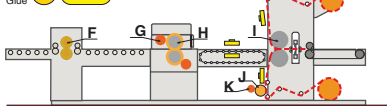
### ECO-ESI

Cola  
Glue **PVAc**



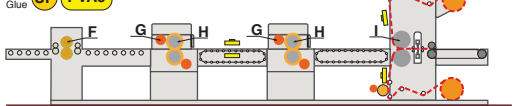
### ECO-GSI

Cola  
Glue **UF PVAc**



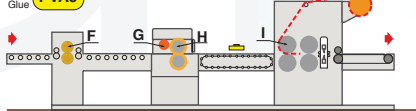
### ECO-JSI

Cola  
Glue **UF PVAc**



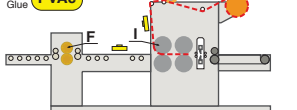
### ECO-BS

Cola  
Glue **PVAc**



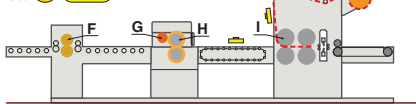
### ECO-FS

Cola  
Glue **PVAc**



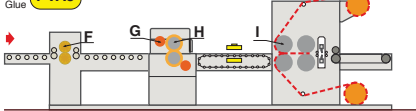
### ECO-HS

Cola  
Glue **UF PVAc**



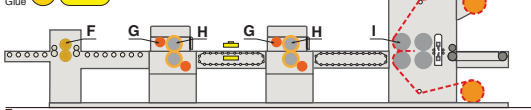
### ECO-BSI

Cola  
Glue **PVAc**



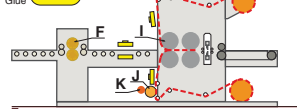
### ECO-DSI

Cola  
Glue **UF PVAc**



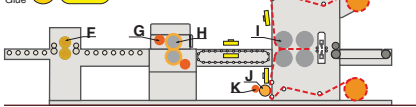
### ECO-FSI

Cola  
Glue **PVAc**



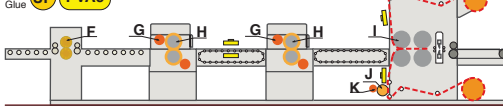
### ECO-HSI

Cola  
Glue **UF PVAc**



### ECO-KSI

Cola  
Glue **UF PVAc**







With optionals

LAMINATING

## DATOS TÉCNICOS - TECHNICAL DATA

Mod.	L mín.	A máx.	C	D	FØ mm	GØ mm	HØ mm	IØ mm	JØ mm	KØ mm	Vm/mín.
ECOLINE-S-1100		1000		1050	180	174	245	300	245	174	5 - 25
ECOLINE-S-1400	1200	1300	3 - 50	1350	"	"	"	"	"	"	"
ECOLINE-S-1700		1600		1650	"	"	"	"	"	"	"

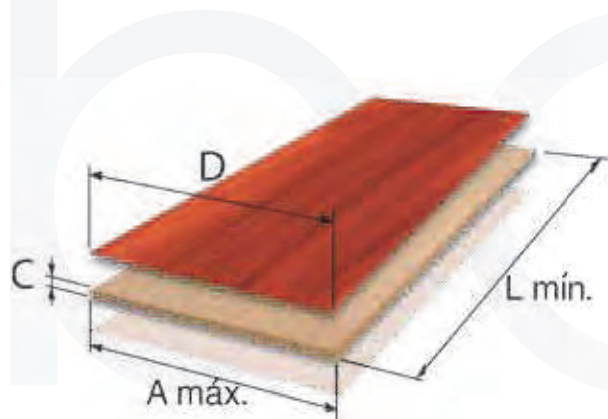
## DATOS TÉCNICOS - TECHNICAL DATA

Mod.	L mín.	A máx.	C	D	FØ mm	GØ mm	HØ mm	IØ mm	JØ mm	KØ mm	Vm/mín.
ECOLINE-SI-1100		1000		1050	180	174	245	300	245	174	5 - 25
ECOLINE-SI-1400	1200	1300	3 - 50	1350	"	"	"	"	"	"	"
ECOLINE-SI-1700		1600		1650	"	"	"	"	"	"	"

# Laminate from 1400 mm up to 2400 mm

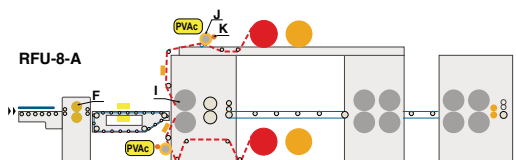
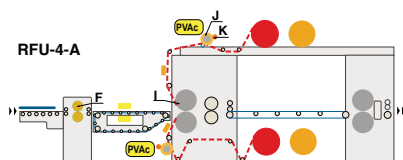
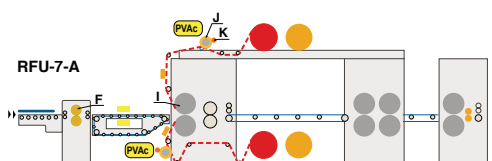
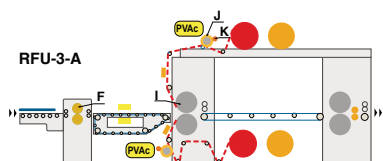
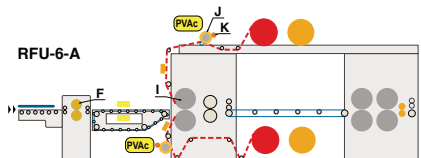
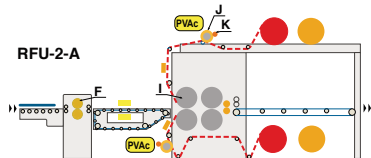
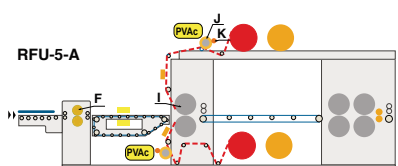
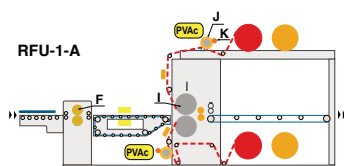
## RFU-A

Double sided laminating line for the application of PVAc glue on the foil.



### DATOS TÉCNICOS TECHNICAL DATA

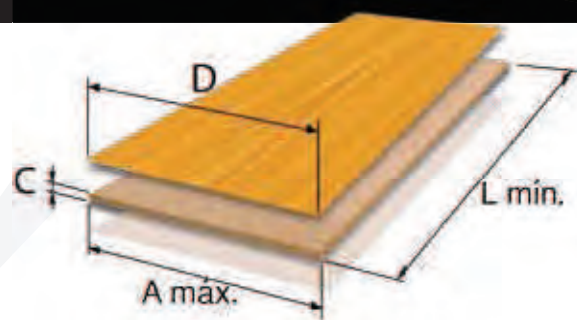
Mod. A	L mín.	A máx.	C	D	FØ mm	IØ mm	JØ mm	KØ mm	Vm/ mín.
RFU-1400		1300		1350	180	300	233	174	5 - 25
RFU-1700		1600		1650	"	"	"	"	"
RFU-2000	1200	1900	3 - 50	1950	210	500	305	240	6 - 36
RFU-2200		2100		2150	"	"	"	"	"
RFU-2400		2300		2350	"	"	"	"	"





# RFU-B

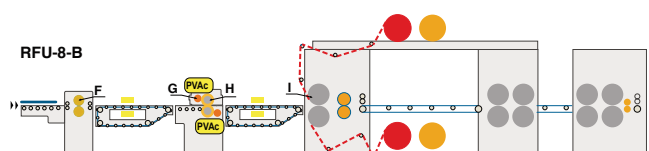
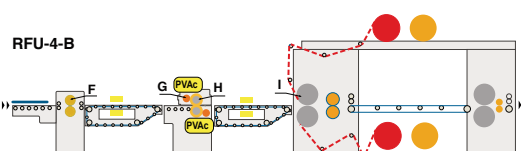
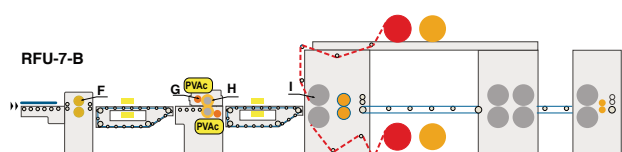
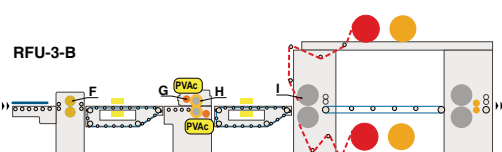
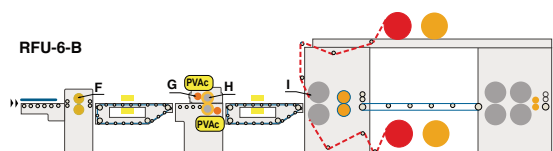
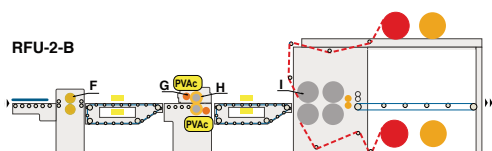
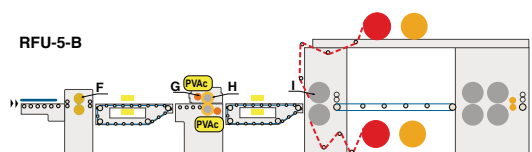
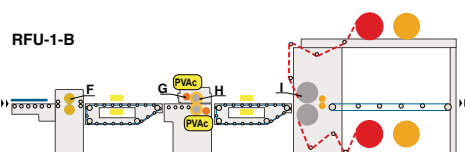
Double sided laminating line for the application of PVAc glue on the board.



**DATOS TÉCNICOS  
TECHNICAL DATA**

Mod. B	L mín.	A máx.	C	D	FØ mm	GØ mm	HØ mm	IØ mm	Vm/ mín.
RFU-1400		1300		1350	180	174	245	300	5 - 25
RFU-1700		1600		1650	"	"	"	"	"
RFU-2000	1200	1900	3 - 50	1950	210	240	305	500	6 - 36
RFU-2200		2100		2150	"	"	"	"	"
RFU-2400		2300		2350	"	"	"	"	"

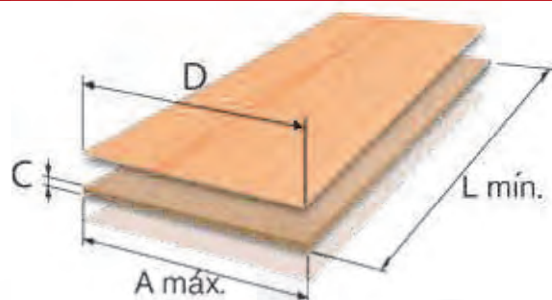
LAMINATING



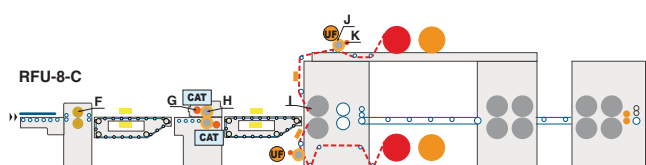
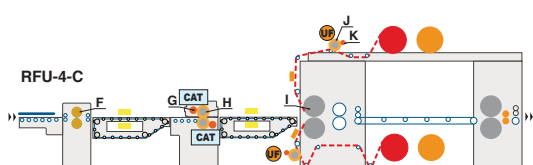
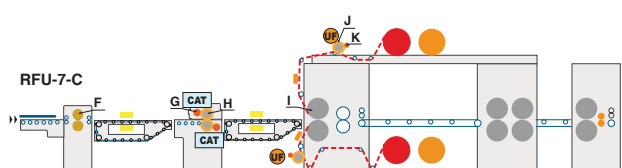
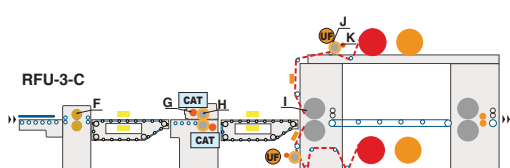
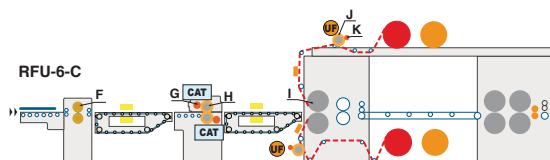
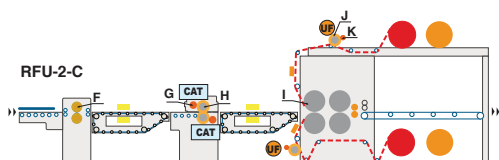
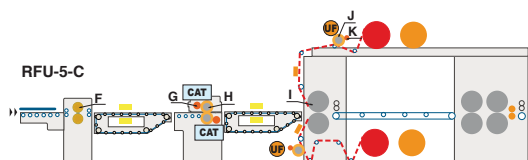
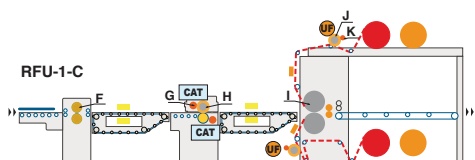
# Laminate from 1400 mm up to 2400 mm

## RFU-C

Double sided laminating line for the application of Hardener on the board and UF glue on the foil.



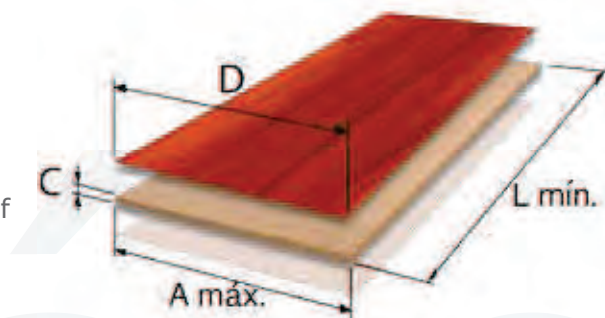
DATOS TÉCNICOS TECNICAL DATA	Mod. C	L mín	A máx.	C	D	FØ mm	GØ mm	HØ mm	IØ mm	JØ mm	KØ mm	Vm/ mín.
	RFU-1400		1300		1350	180	174	245	300	233	174	5 - 25
	RFU-1700		1600		1650	"	"	"	"	"	"	"
	RFU-2000	1200	1900	3 - 50	1950	210	240	305	500	305	240	6 - 36
	RFU-2200		2100		2150	"	"	"	"	"	"	"
	RFU-2400		2300		2350	"	"	"	"	"	"	"





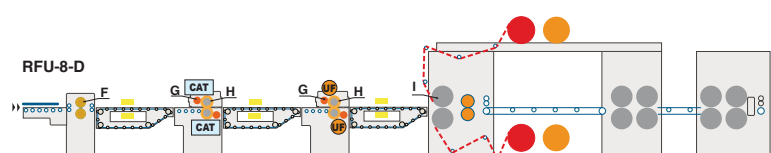
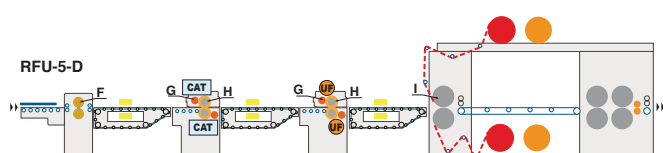
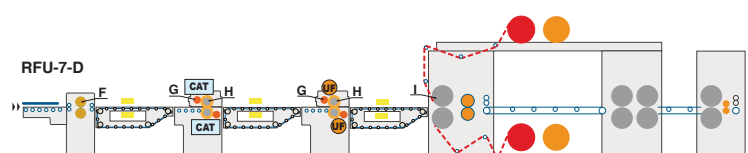
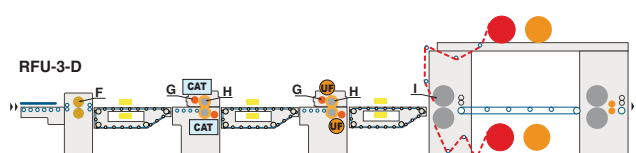
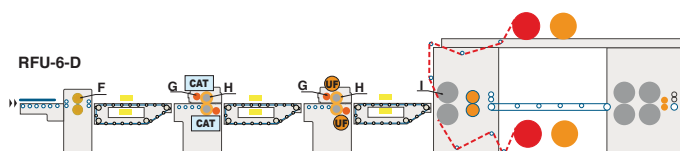
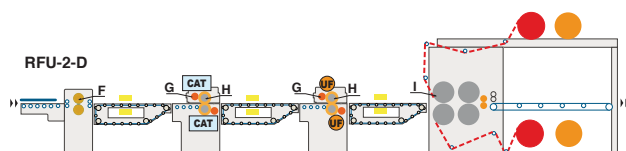
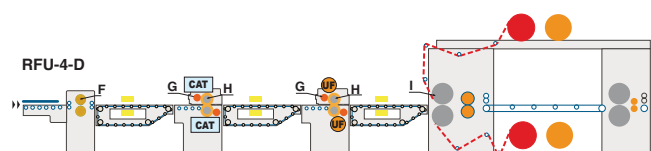
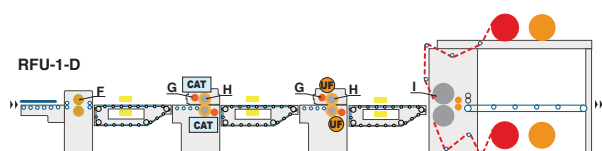
# RFU-D

Double sided laminating line for the application of Hardener and UF glue on the board (wet on wet).



DATOS TÉCNICOS TECHNICAL DATA	Mod. D	L mín.	A máx.	C	D	FØ mm	GØ mm	HØ mm	IØ mm	Vm/ mín.
	RFU-1400		1300		1350	180	174	245	300	5 - 25
	RFU-1700		1600		1650	"	"	"	"	"
	RFU-2000	1200	1900	3 - 50	1950	210	240	305	500	6 - 36
	RFU-2200		2100		2150	"	"	"	"	"
	RFU-2400		2300		2350	"	"	"	"	"

LAMINATING

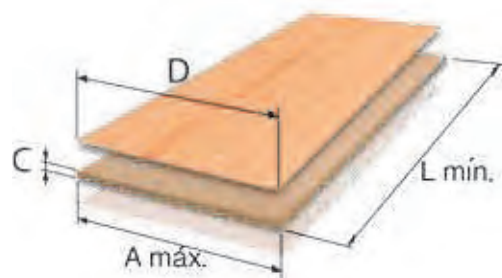
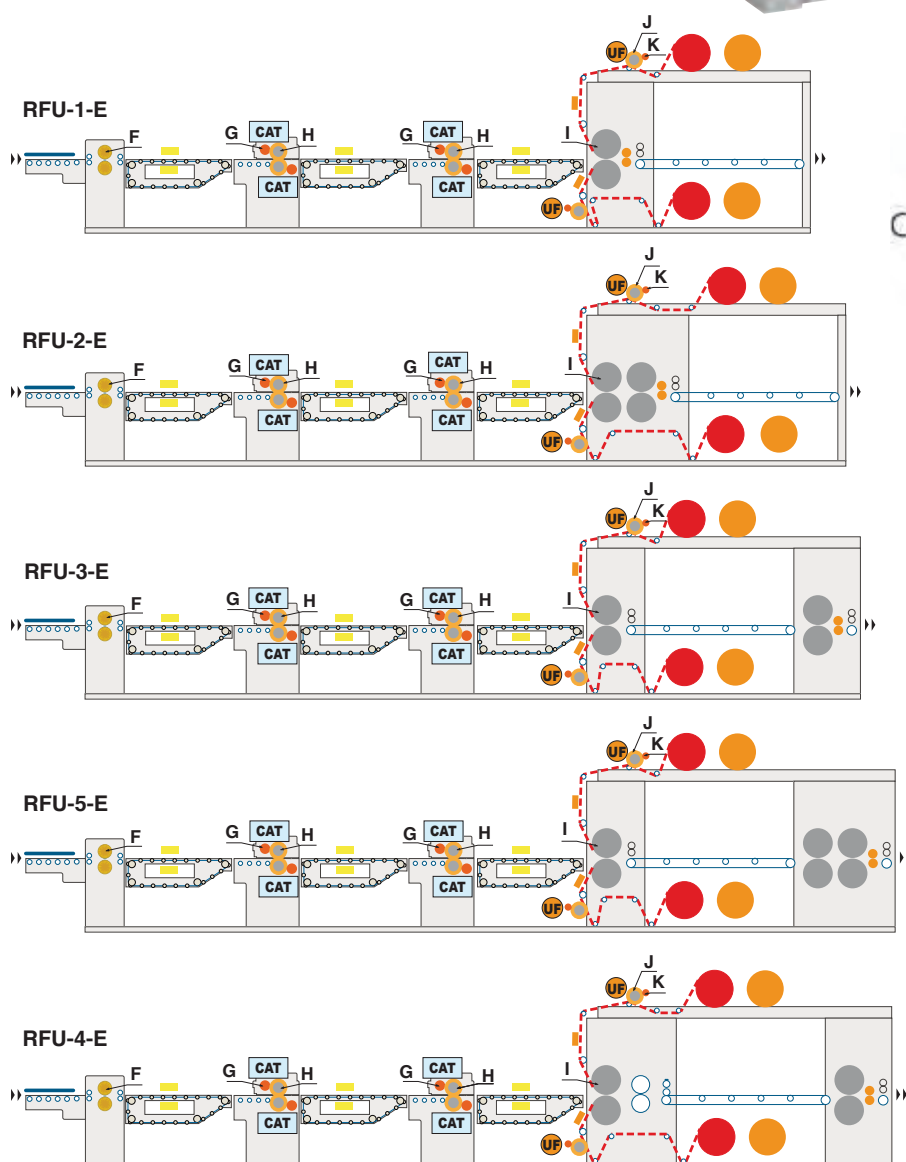


J  
/K

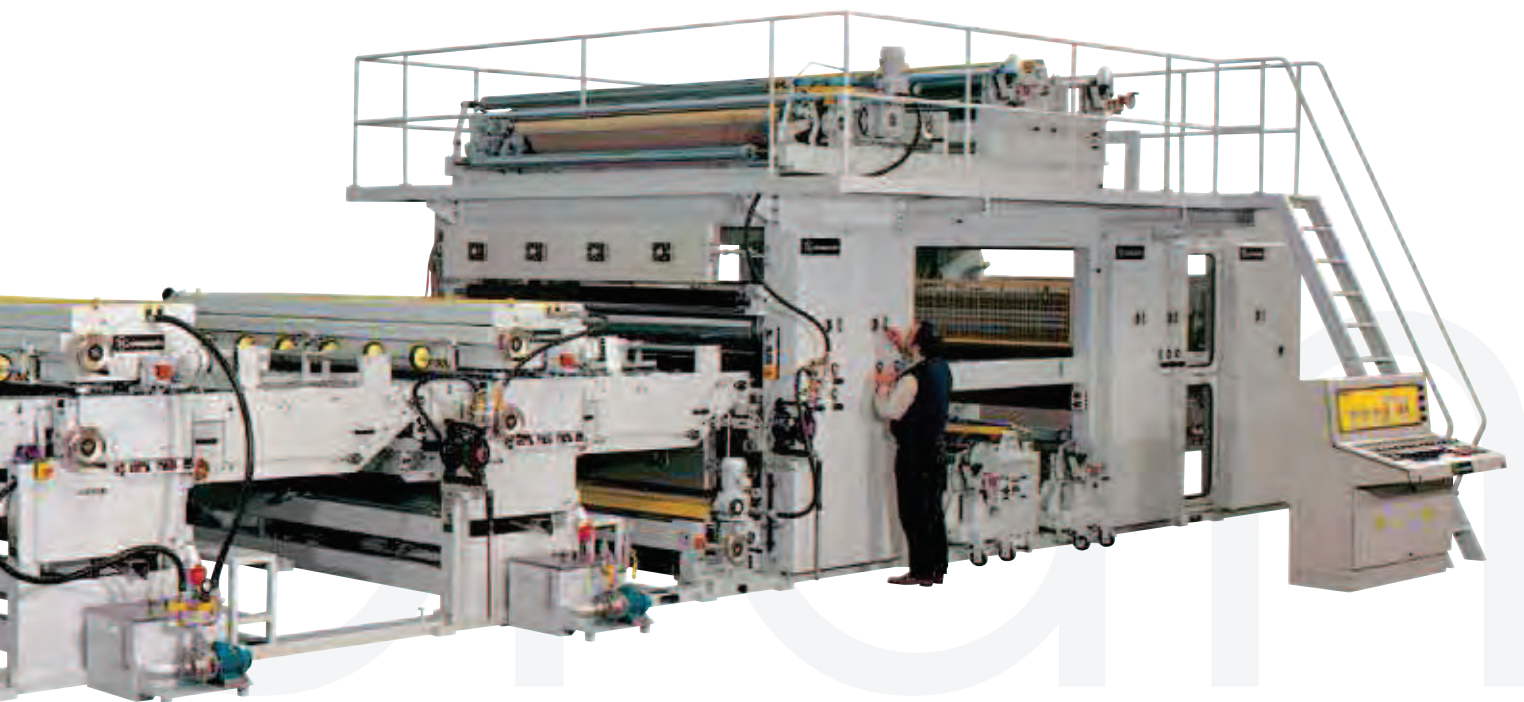
# Laminate from 1400 mm up to 2400 mm

## RFU-E

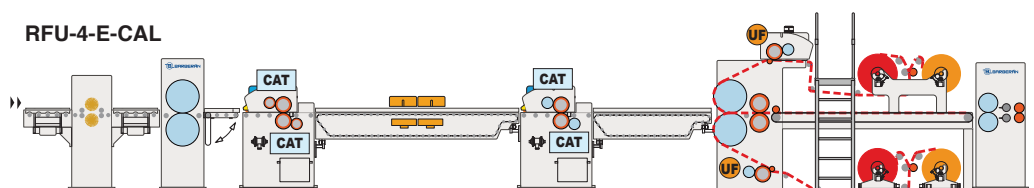
Double sided laminating line for first and second Hardener application on the board and UF glue on the foil.



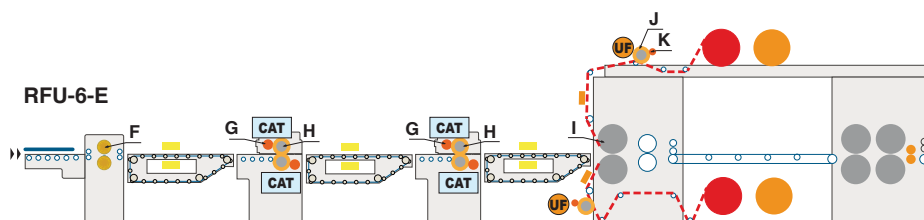




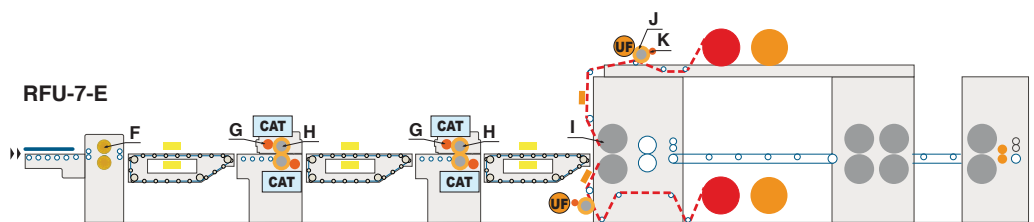
**RFU-4-E-CAL**



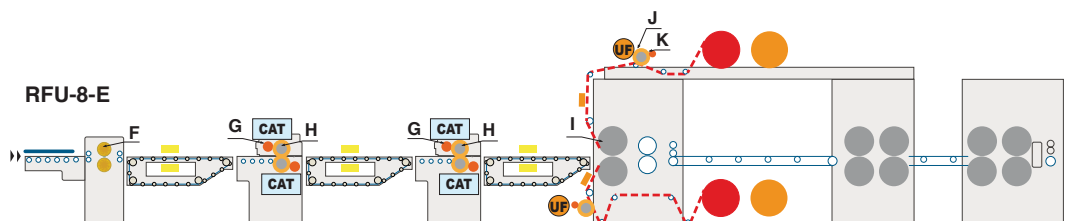
**RFU-6-E**



**RFU-7-E**



**RFU-8-E**

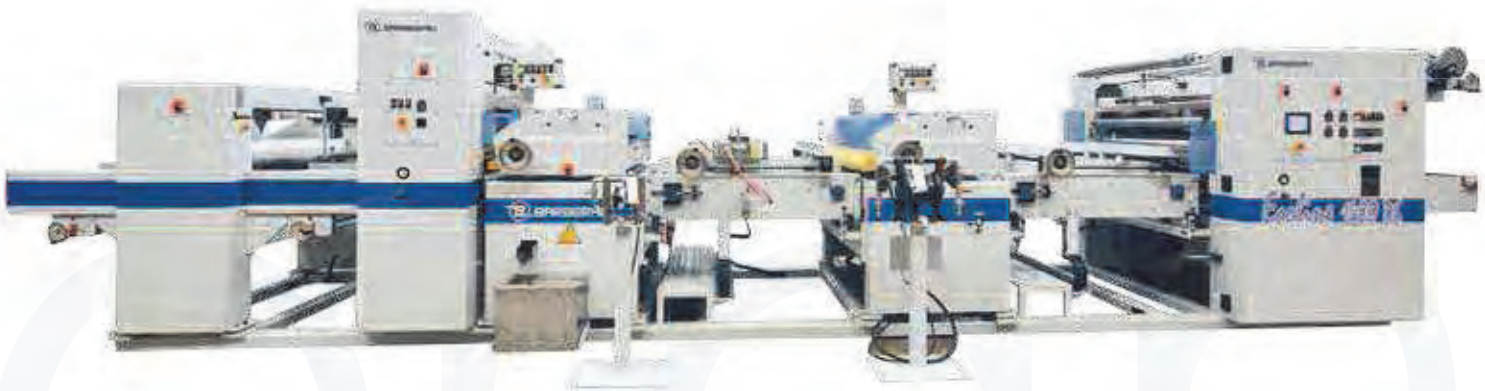


DATOS TÉCNICOS TECNICAL DATA	Mod. E	L mín.	A máx.	C	D	FØ mm	GØ mm	HØ mm	IØ mm	JØ mm	KØ mm	Vm/ mín.
	RFU-1400		1300		1350	180	174	245	300	233	174	5 - 25
	RFU-1700		1600		1650	"	"	"	"	"	"	"
	RFU-2000	1200	1900	3 - 50	1950	210	240	305	500	305	240	6 - 36
	RFU-2200		2100		2150	"	"	"	"	"	"	"
	RFU-2400		2300		2350	"	"	"	"	"	"	"

# Special laminating machines











Reservado el derecho de introducir modificaciones que aconsejen los nuevos desarrollos técnicos. Los detalles, colores y equipamientos de las ilustraciones son solo para fines informativos. Dado que los datos técnicos o equipamientos pueden variar, se ruega consultar.

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Nous reservons le droit d'introduire des modifications en fonction des nouveaux développements technologiques. Les détails, couleurs et équipements des illustrations ont le seul but d'informer le client. Comme les détails techniques ou les équipements peuvent varier, prière de consulter.

Ci riserviamo il diritto d'introdurre modifiche senza preavviso. Si dichiara che: i colori e gli equipaggiamenti delle illustrazioni sono stati esposti solo per fini informativi, poichè i dati tecnici e gli equipamenti possono variare. Si chiede di consultare il ns ufficio.



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