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# SOLUTION HD

NC single-sided edgebanders





# OUR TECHNOLOGY BEHIND YOUR IDEAS

## SOLUTION HD

Fully automatic single-sided edgebander



4 PANEL SIDES EDGEBANDING

SAWING

4 PANEL SIDES EDGEBANDING

BORING/WORKING CENTRE

# SOLUTION HD

FOR AN INTENSIVE  
AND PROFESSIONAL USE



NC single-sided edgebander





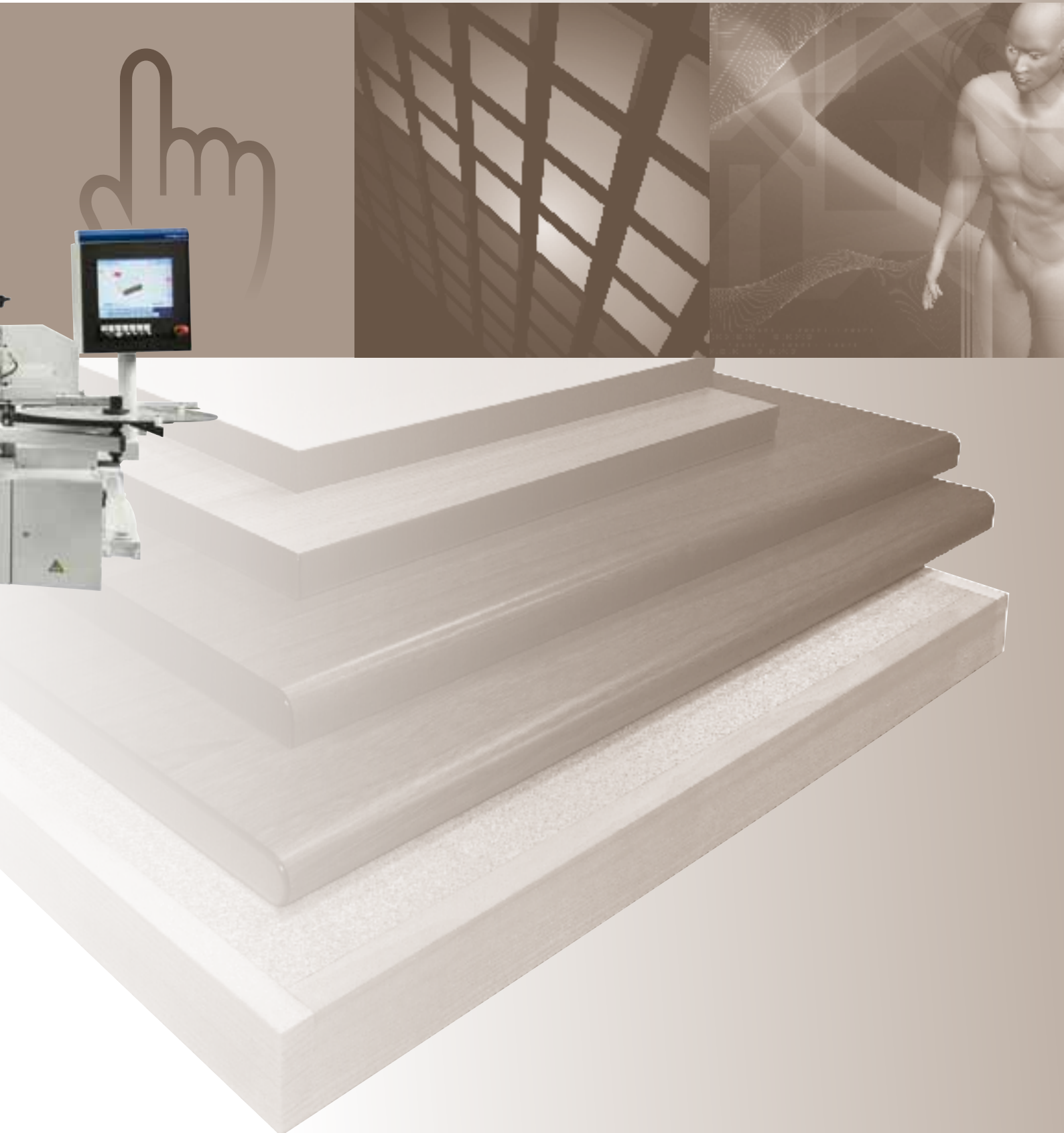
STEFANI industrial  
Quality and Performance  
without compromises.



Production costs for  
individual panels are  
reduced and under control.

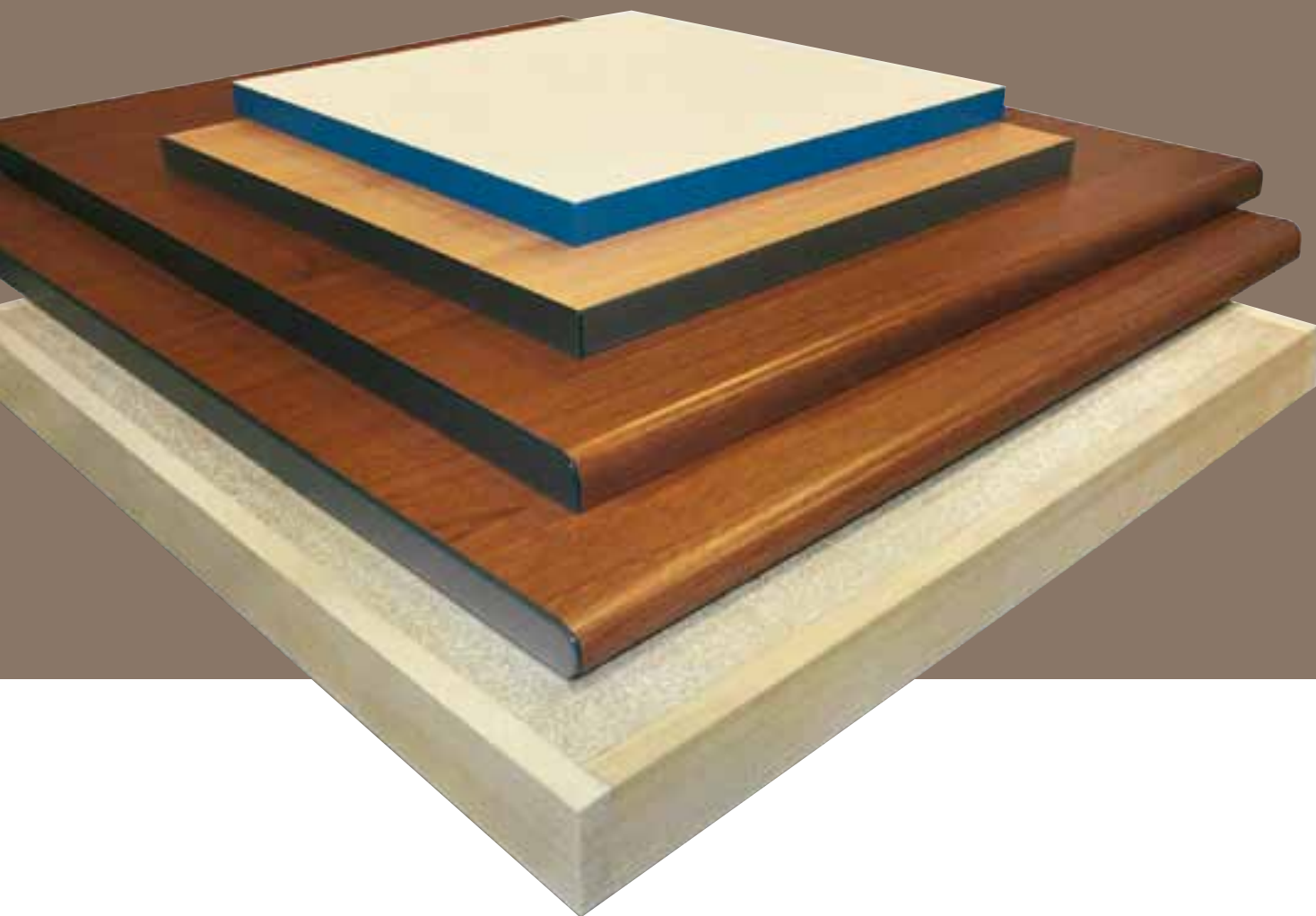


Ergonomics and  
safeguarding of resources.  
A technological reference  
point.



# SOLUTION HD

FOR AN INTENSIVE AND  
PROFESSIONAL USE



## EFFICIENT PRODUCTION

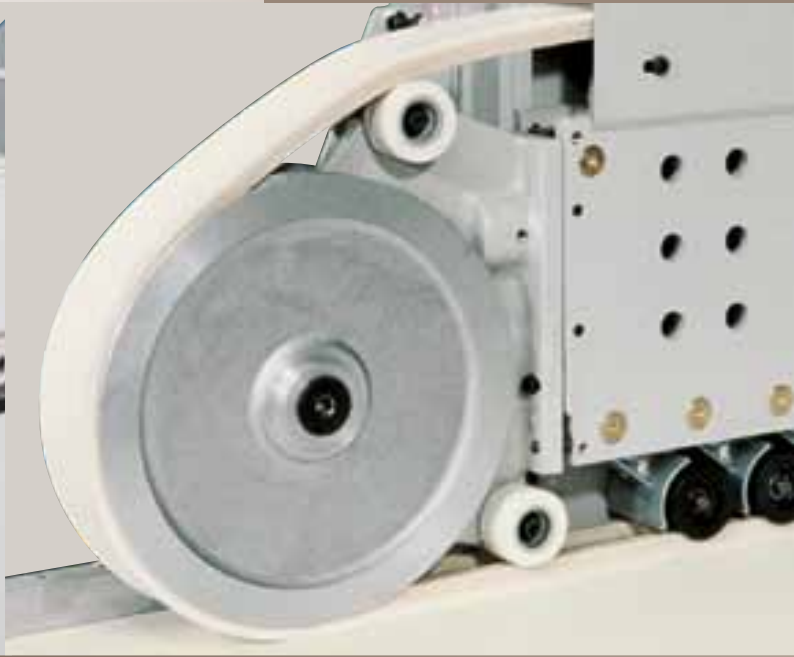
Solution HD distinguishes as industrial edgebander. In fact, the heavy machine frame and the working units of industrial range, allow an intensive and professional use with enduring precision and reliability guarantee. The reachable working speed allows high productivity with a possible infeed speed from 12 to 30 m/min. Equipped with PC Office, SOLUTIONI HD ensures the maximum NC management, reducing to the minimum manual set-up and making production profitable.

## UNIVERSAL EDGEBANDING

Solution HD can apply thin melamine edging, plastic PVC, ABS edging, aluminium edging, ready-cut veneer strips and solid wood strips with the maximum quality and without splinters.



Steel top pressure beam with idle wheels or large belt



Aluminium edges processing





# EPP

## STEFANI SOLUTIONS TO IMPROVE THE QUALITY OF YOUR PRODUCTION

### ECO POWER PACK: A REAL SAVING POTENTIAL

SOLUTION HD is equipped with **EPP – ECO POWER PACK**, which allows a notable saving of power and material.

- ▶ **ED-SYSTEM suction system:** effective chip and dust evacuation is ensured, with lower power consumption and improved cleaning of working units and machine.
- ▶ **OPTI-CUT device:** precision edge feeding and rear cut to reduce waste generation to a minimum for significant advantages of edge saving.
- ▶ If the machine is not in use, the track feeding automatically goes on stand-by and the glue pot temperature drops.
- ▶ Possibility of separated management of suction hoods to reduce consumptions up to 65%.

### MULTIEDGE: DYNAMIC WORKING PROCESS CHANGE

To automatically change between 2 radiuses and infinite thin edges, without tool change. Available on fine trimming, corner rounding and edgescraping units. Patent pending.



# SOLUTION HD



## X GRINDER PERFECT QUALITY BAR MACHINING

A system for grinding waste built into the extractor hoods of the edge scraper unit reduces the size of the waste when machining medium - long panels or bars (optional device, STEFANI patent pending).

## NESTING EASILY WORKING WITH INTEGRATED CELLS

Availability of special feelers in trimming and fine trimming units for the edgebanding of nested panels.



## EFFICIENT CHIP CUTTING AND SUCTION

The optimized ED-SYSTEM improves the chip suction's quality and performance by means of tools and suction hoods precisely designed for this purpose. By means of this technology chip is always evacuated from the panel and is always controlled. ED-SYSTEM is available on pre-milling, trimming, fine trimming and rounding units.



# SOLUTION HD

STEFANI SOLUTIONS TO IMPROVE  
THE QUALITY OF YOUR PRODUCTION

## TOURER. PANEL RETURN DEVICE.

Solution HD can be set up with the TOURER panel return device. A single operator can perform complete panel machining directly from the edge banding machine loading zone.



## INSERTION SYSTEMS Simply extending the potential of SOLUTION HD



**Infeed system for narrow workpieces**  
This device can be set up, facilitating the insertion of smaller panels.



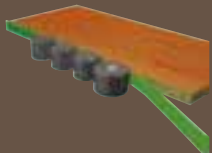
**Manual infeed system for large workpieces**  
Optional device which facilitates transversal insertion of medium/large panels. The reference guide can be tilted to allow the insertion of panels with angled sides.



## HEAVY DUTY WORKING UNITS SUPERIOR TECHNOLOGY



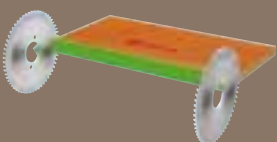
Allows high quality application of the edging in a 0.4 - 3 mm roll and in 1 - 12 mm thick strips/solid wood. Glue pot quick release for working with different types of glue. Tracer device for optimising glue dosing. NC management of the pressure roller pressure. Possibility of pre-melting device for hot-melt glue pellets with automatic drawing and easily filled in an ergonomic way. Possibility of working solid wood edging measuring up to 22 mm, aluminium edging and ready-cut strips. Possibility of NC positioning of the pressure roller. Possibility of managing PU block glue. Possibility of automatic change of the type of edging for up to 2 rolls. The change takes place at the end of a roll or when there is a change in machining.



Gluing unit



For removing excess edging at the head and tail of the panels. Possibility of using the NC to separately tilt the blades for working the head and tail of the panel independently.

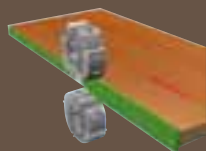


Upper end-trimming unit

# SOLUTION HD

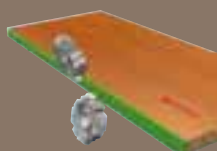
## HEAVY DUTY WORKING UNITS SUPERIOR TECHNOLOGY

For the top and bottom trimming of the edge excess. Possibility of NC double automatic positioning. Availability of special feelers in trimming and fine trimming units for the edgebanding of nested panels. Optimized chip suction flow with ED-SYSTEM.



Trimming unit

To finish the top and bottom of thin edges or for trimming of the PVC/ABS edges Quick release device of the tool holder block. Possibility of NC managed side sensor to process different thicknesses or for automatic tolerance compensation. Availability of special sensors for the edgebanding of nested panels. Available in the equipment with KIT MILTIEDGE, to work automatically a melamine thin edge and two radiuses with a perfect quality. Available in the equipment with 2P KIT to work automatically a thin edge and a radius directly from NC. Available in the equipment with KIT MULTIPLA to work automatically a melamine thin edge and three radiuses with a perfect quality. Optimized chip suction flow with ED-SYSTEM.

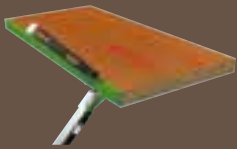


Fine trimming unit





For finishing/smoothing radiused PVC/ABS edging. Quick release device for tool taper block and tool. Availability of special tracers for edge banding panels previously machined with the nesting process. Possibility of setting up the 2P kit for working two radiused edging strips. Possibility of setting up the MULTIPLA kit for automatically working a thin melamine edging and three radiused edging strips with perfect quality. X-GRINDER waste grinding system built into the extractor hoods to reduce the size of the waste when machining medium - long panels or bars (optional device, STEFANI patent pending)



**Edgescraping unit**





# SOLUTION HD

## OPTIONAL WORKING UNITS AND DEVICES

GET THE MAXIMUM ADVANTAGE FROM SOLUTION HD



- ▲ **NC upper pressure beam**  
Possibility of managing the presser movement using the NC.



- ▲ **Automatic infeed system**  
Possibility of managing panel insertion in an easier, automatic way.



- ▶ **UX routing unit for external mortises.**  
During edge banding, allows up to two timed or through-mortises to be made simultaneously on the side opposite the one being edge banded.

- ▶ **Fixed panel side support**  
Replaces the standard telescopic version.



- ▶ **Infeed guide with possibility of double automatic position.** Possibility of **EASY SIZE NC** movement.



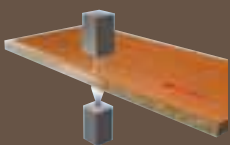


To avoid glue deposits on the top and bottom surfaces of the panel.

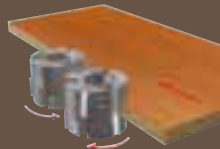


It mills the panel side to be edged ensuring an excellent gluing surface. Possibility of NC managed positioning of the first feeler. Possibility to equip the tools with HYDROLOCK technology to reduce coupling play and vibration. Optimized chip suction flow with ED-SYSTEM.

Possibility to equip the EASY SIZE device, to manage from NC material removing depending on the applying edge.



Anti-adhesive unit

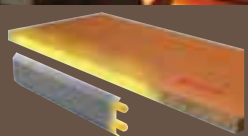


Pre-milling unit

▶ Standard telescopic panel side support



Heating panels lamps



# SOLUTION HD

## OPTIONAL WORKING UNITS AND DEVICES

GET THE MAXIMUM ADVANTAGE FROM SOLUTION HD

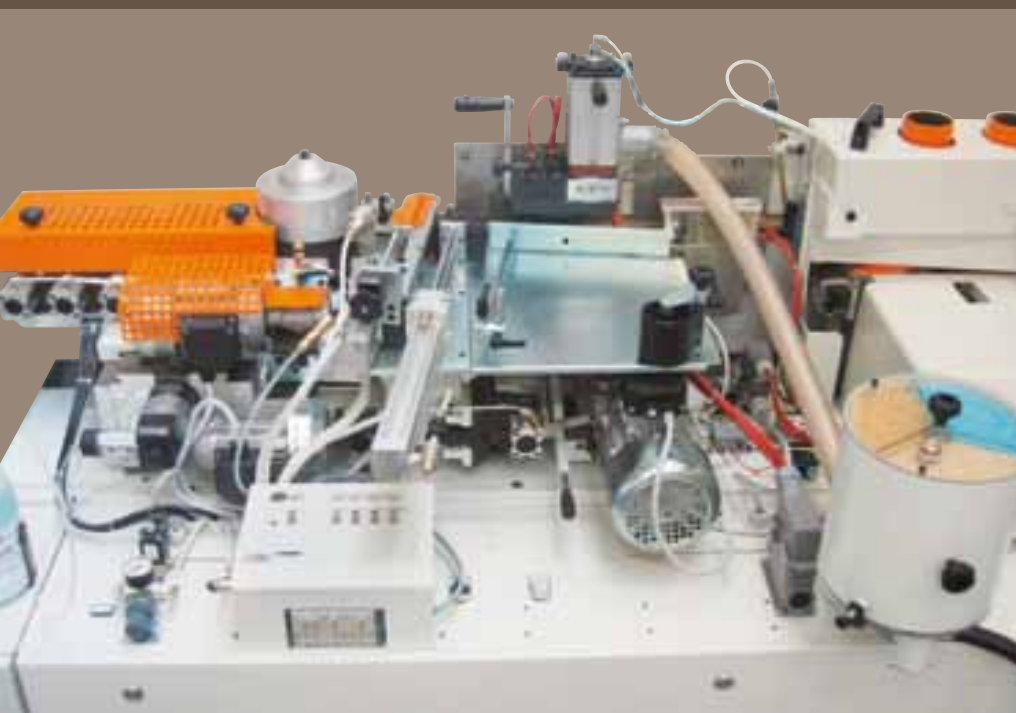
GLUE PRE-MELTING SYSTEMS  
STEFANI EXPERTISE IN THE USE OF GLUE



▲ QMS pre-melting unit for hot-melt glue capacities of up to 8.5 kg/h. Possibility of pellet feeding with ground hopper.



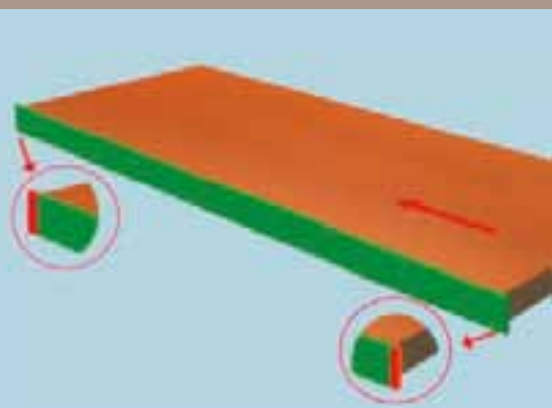
QMS pre-melting unit and unit for polyurethane block glue weighing 2 kg MC4 with melting capacity of 4 kg/h, with quick change-over device.



EASY GLUE BASIC pre-melting unit, allows manual change-overs and in just a few minutes up to 5 colours of hot-melt glue, polyurethane glue and cleaner.



## POWER-ASSISTED EDGING FEED



Edging can be fed with a precision of  $\pm 2$  mm on the front and rear parts of the panel. This reduces the production costs for each panel.

## ROLL MAGAZINES WHEN ONE TYPE OF EDGING IS NOT ENOUGH.

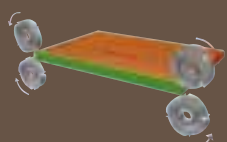
2-roll vertical magazine with automatic change-over from NC or at end of roll.



# SOLUTION HD

## OPTIONAL WORKING UNITS AND DEVICES

GET THE MAXIMUM ADVANTAGE FROM  
SOLUTION HD



4 motors corner  
rounding unit

For finishing with corner rounding of the panel edge banded with melamine, PVC, ABS and solid wood edging strips. Quick release device for tool taper block and tool, for setting up more processings. Possibility of a NC lateral feeler for working different thicknesses or compensating for tolerances. Availability of special feelers for edge banding panels previously machined with the Nesting process. Possibility of setting up the 2P kit

for automatically working a thin edging and a radiused edging using NC. Possibility of setting up the Multiedge kit for automatically working a thin melamine edging and two radiused edging strips with perfect quality. Optimised extractor flow with the ED-SYSTEM.

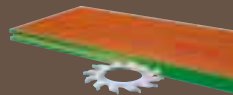




To process through or timed grooves on the top, bottom and sides of the panel. Quick release device for the suction hoods. Intervention precision up to +/- 2 mm.



Grooving unit



Grooving unit



For finishing veneered and solid wood edging and preparing it for painting.

Sanding unit





# SOLUTION HD

## OPTIONAL WORKING UNITS AND DEVICES

GET THE MAXIMUM ADVANTAGE FROM SOLUTION HD

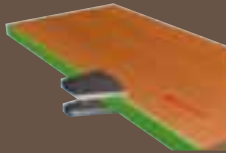


◀ To eliminate possible residual glue on the top and bottom side of the panel. Double bearing feelers for perfect process precision.

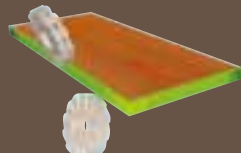
▶ For panel cleaning and brightening of plastic edges.



Gluescraping unit

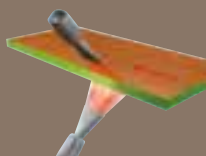


Buffing unit



◀ For brightening of plastic edges.

Edge brightening unit



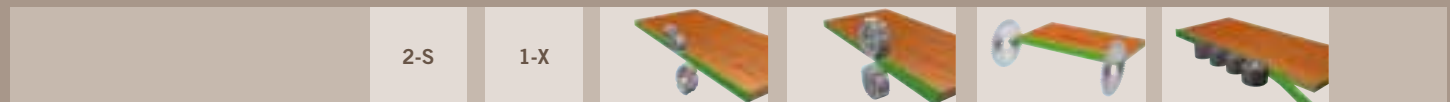
# COMPOSITIONS

Processing of thin  
and solid wood edges

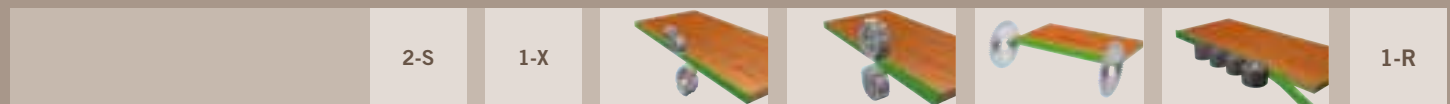
SOLUTION HD-R (48)



SOLUTION HD-T (53)

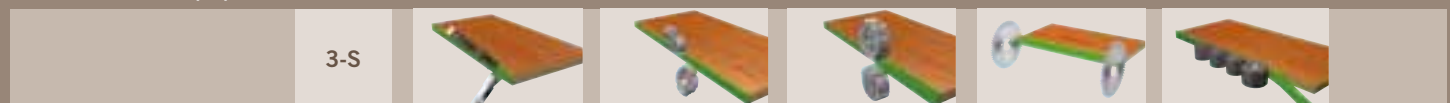


SOLUTION HD-RT (58)



Processing of thin, solid  
wood and ABS edges  
on 2 sides

SOLUTION HD-VS (53)



SOLUTION HD-RS (58)



SOLUTION HD-RTS (63)

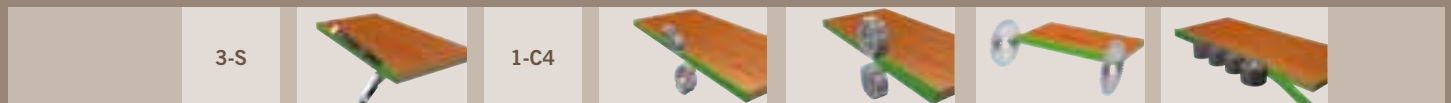


# SOLUTION HD

## COMPOSITIONS

Processing of thin, solid wood and ABS edges on 4 sides

### SOLUTION HD-4 (68)



### SOLUTION HD-R4 (73)



### SOLUTION HD-T4 (73)



### SOLUTION HD-RT4 (78)



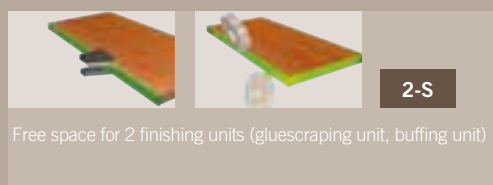
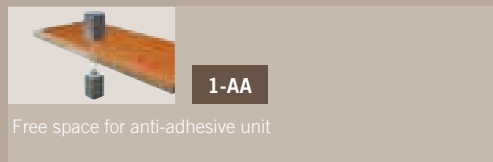
### SOLUTION HD-RL4 (78)



### SOLUTION HD-RTL4 (83)



## Free spaces

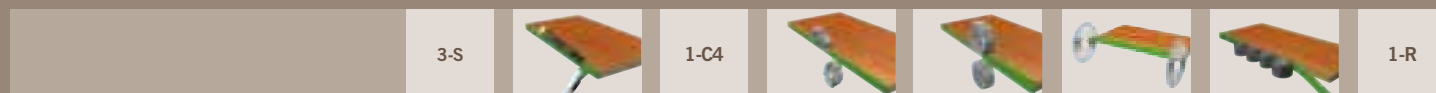




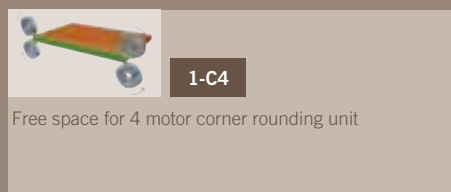
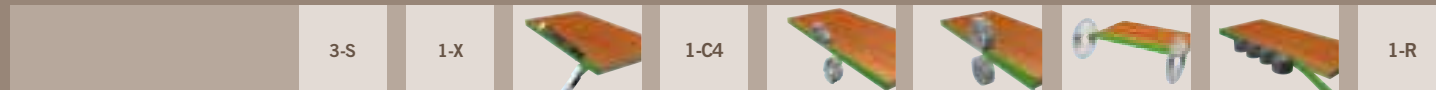
# SOLUTION HD-P HIGH PRODUCTIVITY

Solution HD P-R4 and Solution HD P-RT4 edgebanders achieve a standard 25 m/min feeding speed for intensive and high productivity process.

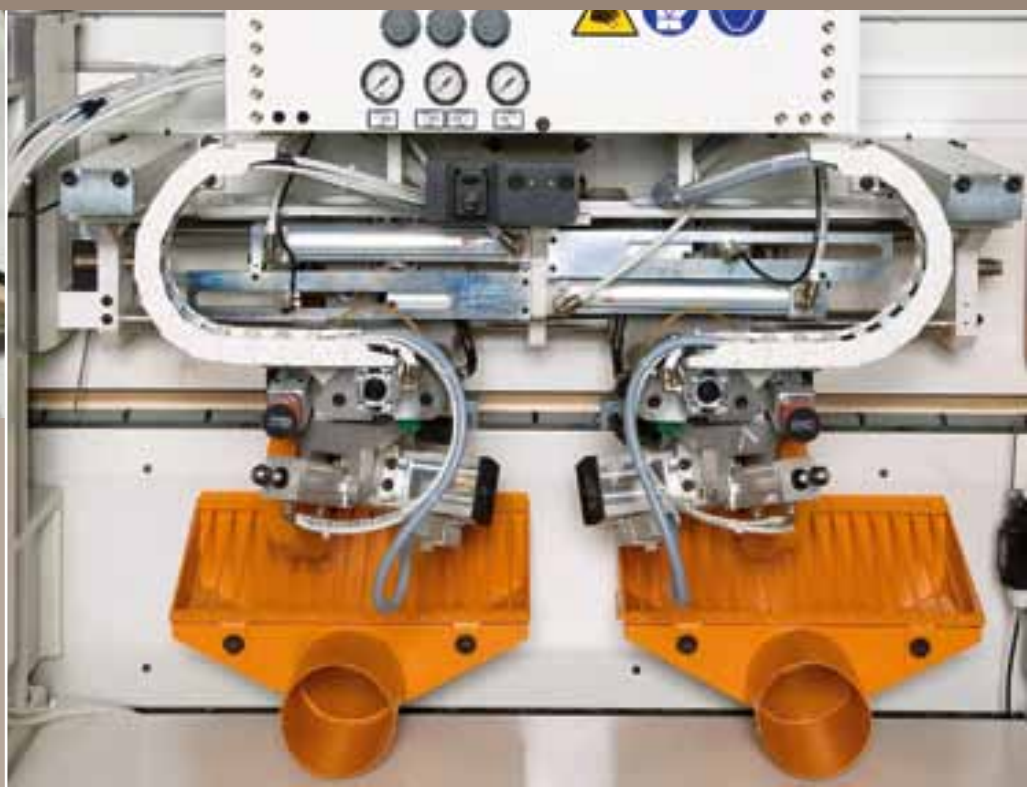
## SOLUTION HD P-R4 (78)




## SOLUTION HD P-RT4 (83)



Top belt pressure beam



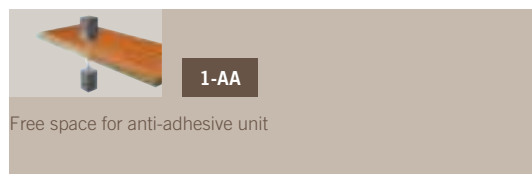
 Upper end-trimming unit

30<sup>up to</sup>  
m/min

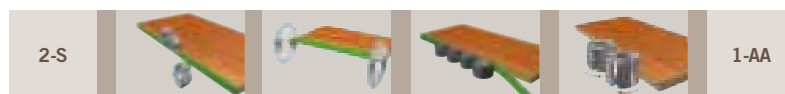
## SOLUTION HD-S HIGH SPEED

The edgebanders SOLUTION HD S-A and SOLUTION HD S-RA are equipped with top belt pressure beam and guarantee high productivity as they can process thin edges up to 1,5 mm with feeding speed up to 30 m/min.

SOLUTION HD S-A (43)



SOLUTION HD S-RA (53)



End-trimming unit ▶



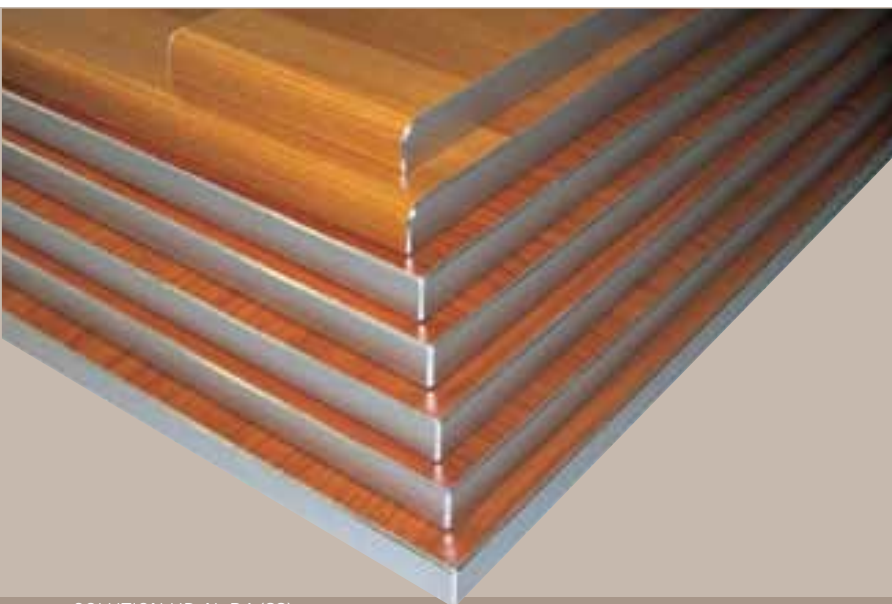
▼ Pre-milling unit



2 or 6 roller vertical magazine with automatic edge change over (optional)

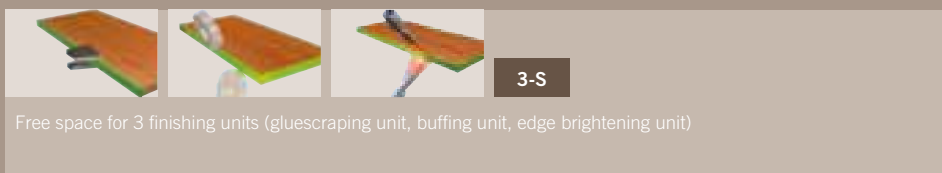
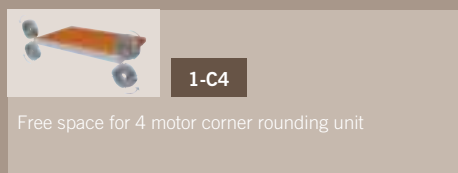
◀ High productivity gluing unit with pre-melting unit

# SOLUTION HD-P HIGH PRODUCTIVITY



Solution HD AL-R4 edgebander, equipped with top belt pressure beam, is suitable to process aluminium, thin and ABS up to 3 mm edges. The technology developed by IDM for aluminium edge processing doesn't require sanding units and allows you to obtain both shining and opaque finishing.

SOLUTION HD AL-R4 (88)



PUR glue process device



Finishing unit for aluminium edge



Buffing unit for aluminium edge





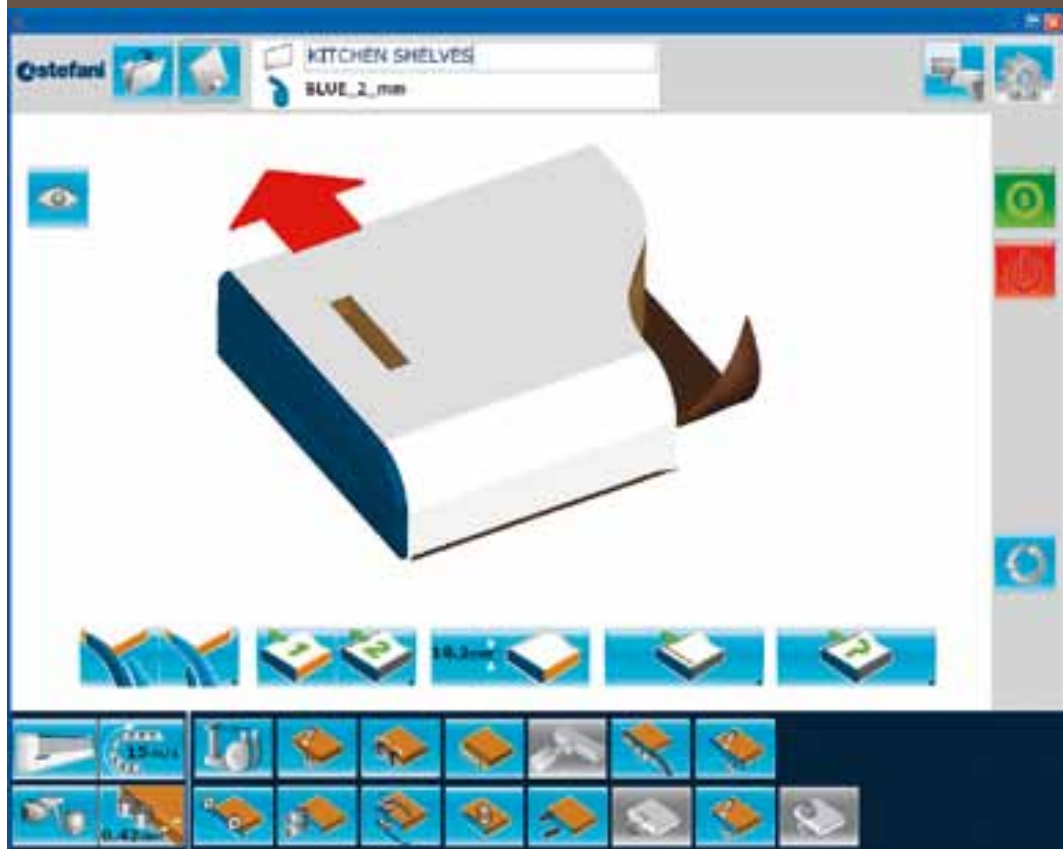


## Interactive and virtual programming sceneries



Working with SOLUTION HD is fast and easy thanks to a nice **PC touch screen** interface that guides the operator in the **self-programming**, according to the logic of “what” to do and not “how” to do. Convenient 17” display for a quick and precise choice of the functions.

## PERFECTION AS TARGET ALREADY FROM CONTROL



- ▶ Separated management of working units for one panel batch production.
- ▶ The edge perfectly “marries” the program with the tolerance correction of edge thickness.
- ▶ Production reports.





# SOLUTION HD

## ADVANCE DIAGNOSTICS

For each working unit it's possible to know in real-time if it is in set-up status, in working or in alarm condition. Different colors indicate the status of the working unit.

## SAFETY IN THE TIME

Possibility of continuous self-backup of the PC with additional hard disk.



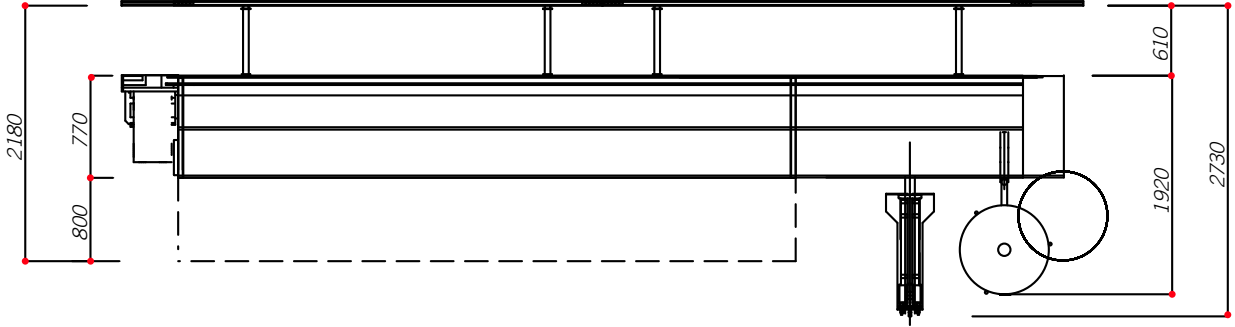
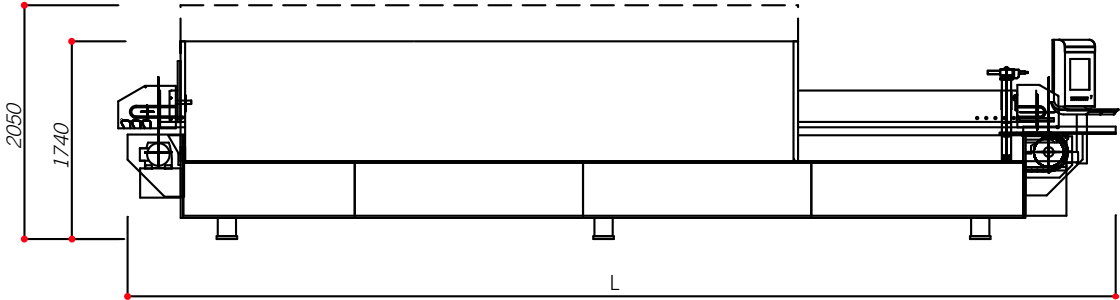
## WEB-BASED TELEDIAGNOSIS

The special hardware structure of SOLUTION HD allows teleservice through internet connection.

This allows our trained technicians to access all machine levels from STEFANI resulting in the diagnosis and resolution of most problems or to update the programs according to customer requests in real time.

# SOLUTION HD

# TECHNICAL SPECIFICATIONS





Solution HD	HD-V (43)	HD-R (48)	HD-T (53)	HD-RT (58)	HD-VS (53)	HD-RS (58)	HD-RTS (63)	HD-4 (68)	HD-R4 (73)
Total length (L) mm	5170	5670	6170	6670	6170	6670	7170	7670	8170
Solution HD	HD-T4 (73)	HD-RT4 (78)	HD-TL4 (78)	HD-RTL4 (83)	HD-ALR4 (88)	HD-PR4 (78)	HD-PRT4 (83)	HD-SA (48)	HD-SRA (53)
Total length (L) mm	8170		8670		9750		9250		6250

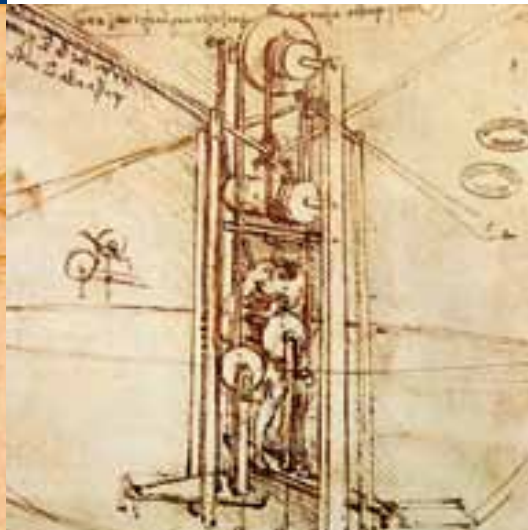
	Solution HD	Solution HD AL	Solution HD P	Solution HD S
Maximum coil material thickness	3 x 45	3 x 45	3 x 45	3 x 45
Maximum strip material thickness	12 22 (opt.)	3 22 (opt.)	12 22 (opt.)	- -
Minimum and maximum panel thickness	10/60	10/60	10/60	10/60
Feed speed	12/18 12-20 (opt. var.) 12-25 (opt. var.)	12/18 12-20 (opt. var.) 12-25 (opt. var.)	12-25 (var.)	12-30 (var.)
Glue types	EVA/PU	EVA/PU	EVA/PU	EVA

## SOLUTION HD NOISE LEVEL

	Reference standard	VSA	LAV
Sound power level emitted dBw(A) [mW(A)]	EN ISO 3746 : 1995 ISO 7960-95 Annex G	94,9 [3,1]	96,6 [4,6]
Sound pressure level at operator position, infeed, dB(A)	EN ISO 11202 : 1997 ISO 7960-95 Annex G	76,3	79,3
Sound pressure level at operator position, outfeed, dB(A)	EN ISO 11202 : 1997 ISO 7960-95 Annex G	76,2	78,3

Technical specifications may vary according to the composition chosen. For demonstration purposes, several photographs show machines complete with accessories. The technical data can be modified without advance notice, the modifications do not influence the safety prescribed by the CE regulations.

NLWE: no load values without extraction  
OV: operating values. The tests were carried out with air extraction speed equal to 20 m/s.  
Uncertainty associated with the measurement of the sound power  $\leq 4,0$  [dB(A)]  
Uncertainty associated with the measurement of the sound pressure at the operator position  $\leq 4,0$  [dB(A)]  
The maximum C-weighted instantaneous sound pressure values are less than 130 dB(C).



Scm group is a leading industrial group, in the design, production and distribution of technologically advanced solutions for processing a wide range of materials: wood, glass, plastic, marble, metal, composites.

With specialist brands in the different application sectors and centres of excellence qualified in industrial components, scm group is present for over 50 years in the 5 continents.

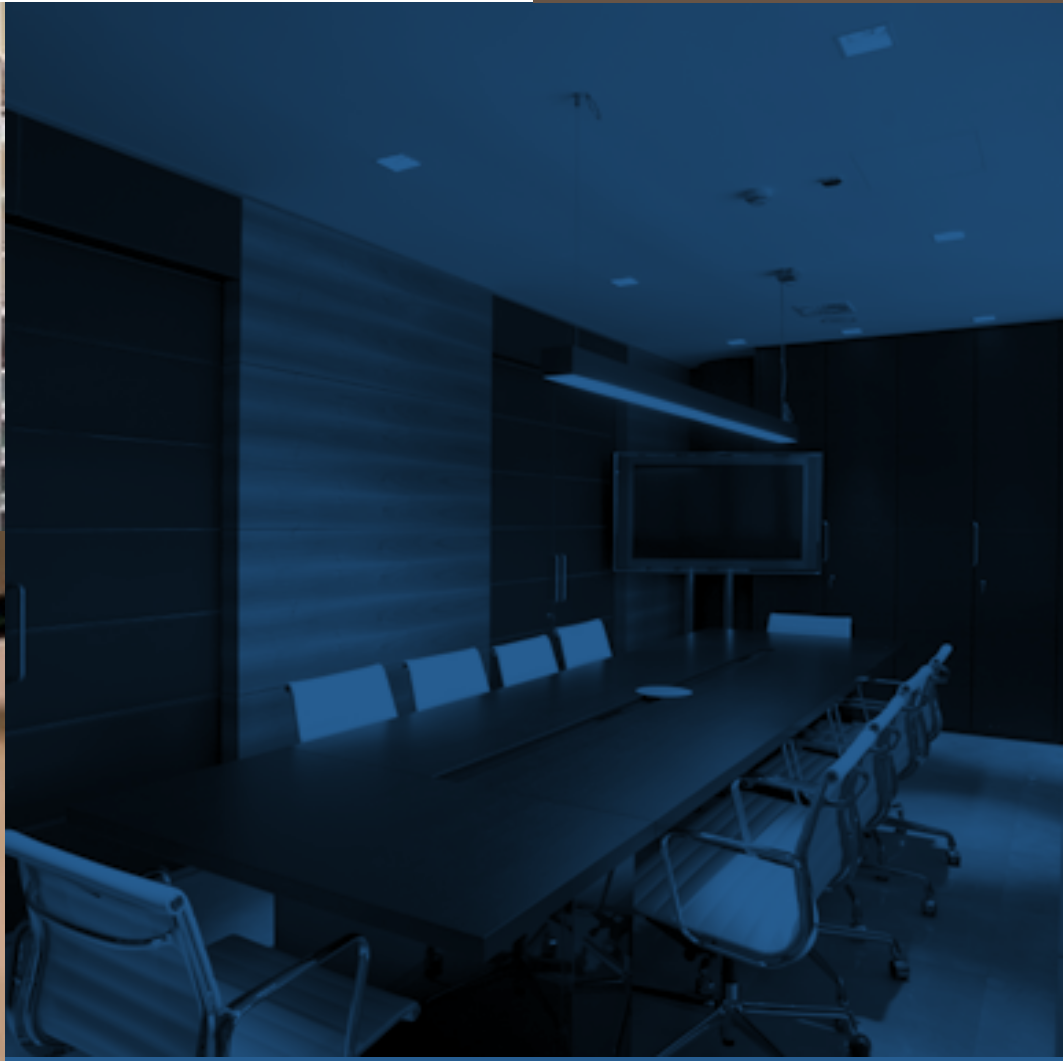
**PASSION.** It's the passion for our work. It's the central role of man, his creative genius, the spirit of initiative and the ability to work in a team.

**TECHNOLOGY.** is the scientific rigour that transforms creativity in highly technological solutions, which are accessible and able to provide competitive advantages.

**PERFORMANCE.** is the commitment that is transformed in results and success of our partners that rely on SCM Group solutions. It's being recognised as suppliers of "competitive advantages that last over time".

THE BEST GLOBAL PARTNER CLOSE TO  
WOODWORKING COMPANIES.

furniture



- Strengths:**
- amongst the first in the world in terms of volumes
  - present in the market for over 50 years with the most prestigious brands
  - ideal and targeted solutions: professional consultants in every country in the world guarantee utmost competence in every single production process.
  - 5 production plants

Technical specifications may vary according to the composition chosen. For demonstration purposes, several photographs show machines complete with accessories. The technical data can be modified without advance notice, the modifications do not influence the safety prescribed by the CE regulations.

