stefani top edge banders and sizing edge banders for the furniture industry







Edge banders - Sizing edge banders



UNDISPUTED LEADER

Decades of SCM know-how in solutions for the squaring-edgebanding of the panel and thousands of machines installed worldwide are summarized in the Stefani TOP range that represents the highest expression and reference in the market for this type of technology.

UNLIMITED POSSIBILITIES

Adapting to the changing reality and production targets is the point of force that characterizes the Stefani TOP range, that in all conditions is able to guarantee the strength of a perfect product.

BUSINESS DEVELOPMENT

History and future meet together in a unique and unmistakable structural design. Reliability and efficiency are absolute and guaranteed. The technical level of the latest generation and the high-end performance without doubt make the Stefani TOP range, the right choice for the development of your production and your business.





Production levels from 1 to thousands of panels per batch.



Continuous production also with lengths and widths that are always different.



Perfect machinability even with the most advanced and modern materials.



Possibility to control design quality and production costs of the joint between panel and edge in the processes with or without glue.





Edge banders – Sizing edge banders

CREATIVITY WITHOUT LIMITS

It is easy and immediate to produce modern furniture with materials and finishes of the new generation with the Stefani TOP range which helps always and under all conditions to reach the most current design trends.





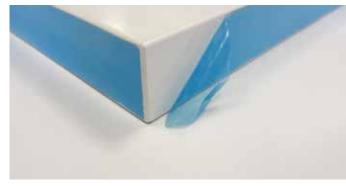
PVC/ABS PP





0.6/0.8 MM STRIPS VENEER FORMICA/HPL/UNICOLOR





PANELS/EDGES WITH PROTECTIVE FILM

NESTING







GLOSS EDGES/GLOSS PANELS

RANGE

STEFANI ONE - TWO

Edge bander

Ideal for the production of medium / high volumes of panels with door/softforming/evolved softforming processes.



	COMPOSITION	1 SIDE 1 PASS PROCESSING	2 SIDES 1 PASS PROCESSING	ARCHITECTURE
stefani one	1 beam	Yes	No	Single side
stefani two	2 beams	No	Yes	Double side

STEFANI SB ONE

Single side sizing edge bander

Ideal for the production of medium/high volumes of batches with mainly heterogeneous sizes.



STEFANI SSB - SB - 60

Double side sizing edge bander Ideal for the production of high and very high volumes, of batches with predominantly ripetitive sizes.



	COMPOSITION	ONLY 1ST PASS PROCESSING VERSION	ONLY 2ND PASS PROCESSING VERSION	1ST*2ND PASS PROCESSING VERSION
stefani ssb	2 beams	Yes	Yes	Yes
stefani sb	2 beams	Yes	Yes	Yes
stefani 60	2 beams in succession	Yes	No	No

Edge banders - Sizing edge banders

MASS PRODUCTION

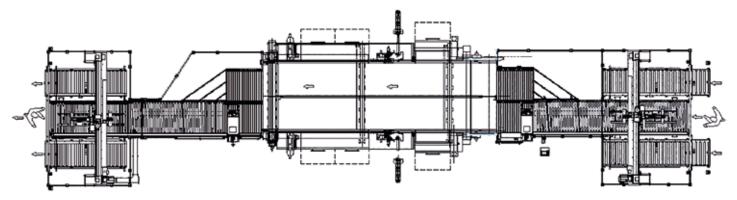
The Stefani TOP range is ready for projects where short delivery times and high production volumes meet and are essential for business growth. In these conditions, one or more machines can be easily integrated with each other and

HALF LINE

For large production volumes.

It allows the automatic loading of panels, the first longitudinal machining, the automatic unloading, the handling of stacks towards the load zone and the subsequent second transversal machining of the panel always with automatic loading and unloading. **Consisting of**:

- Loading cell with two pickup stations
- Sizing edge bander for the first and second pass
- Unloading cell with two unloading stations
- Supervision by "zone" management of the line for time reduction at any size changes

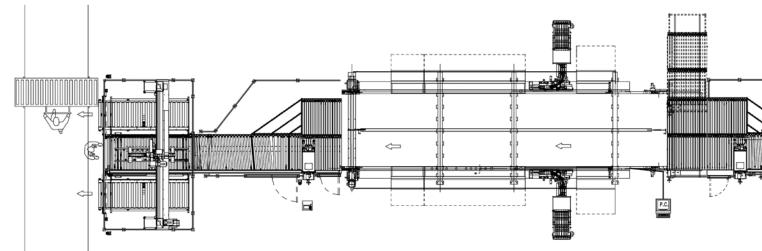


COMPLETE LINE

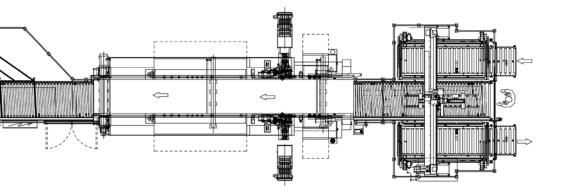
For very large production volumes.

It provides for the automatic loading of the panels, the first longitudinal machining, the 90° rotation of the panel in preparation to the second machine, the subsequent second transversal machining, the automatic unloading. Compared to the half line, the complete line avoids wasted time for repositioning of the stacks in the loading zone for the completion of the process. **Consisting of**:

- Loading cell with two pickup stations
- Sizing edge bander for the first pass
- Panel rotator
- Sizing edge bander for the second pass
- Unloading cell with two unloading stations
- Supervision by "zone" management of the line for time reduction at any size changes







Edge banders - Sizing edge banders

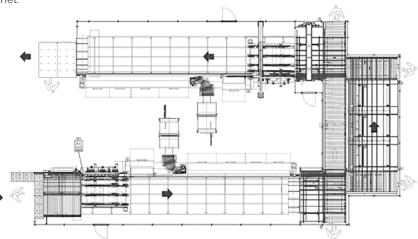
WEB TO ORDER: PRODUCTION IN SMALL SERIES

dedicated to the small and discontinuous series .The need to produce in a few hours from the

MEDIUM SMALL BATCHES

For small and medium batches and always variables panel sizes. Overall dimensions 300/350 m². It provides for the loading and unloading of the panels with 2 operators, 2 passes within the cell to complete the sizing and edge banding of the panel.

- Consisting of:
- Accessories for the loading
- Introduction system for first and second pass
- Single side sizing edge bander stefani sb one
- Handling equipment for the return
- Introduction system for first and second pass with a device for the panel sizing
- Second single-side sizing edge bander stefani sb one
- Accessories for unloading
- Supervisory system from a single point

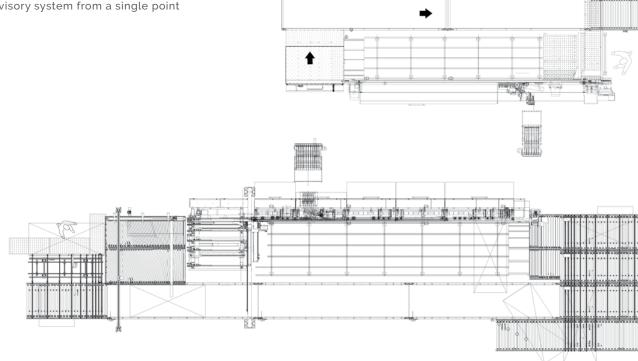


BATCH 1

For the single panel and up to batches with more panels with dimensions and quantity always variable. Overall dimensions from 80 to 250 m². It provides for the loading and unloading of the panels with one operator always positioned at the same point, 4 steps within the cell to complete the sizing and edge banding of the panel.

Consisting of:

- Accessories for the loading
- Feeding system and sizing of the panel
- Single-side edge banders stefani s o stefani one/sb one
- Handling of panel return to the operator
- Supervisory system from a single point



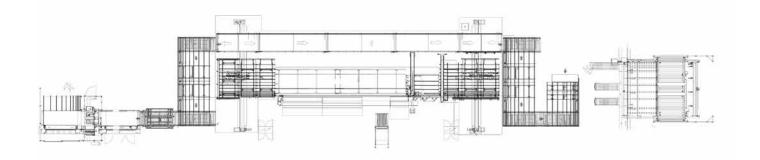


ORDER BY ORDER

For the single panel and up to batches with more panels with dimensions and quantity always variable. Overall dimensions 300 m2. It provides for the automatic loading and unloading of panels, 4 passages in the cell to complete the sizing and edgebanding of the panel.

Consisting of:

- Loading cell
- Feeding system and sizing of the panel
- Single-sided sizing and edge bander stefani sb one
- Handling of panel return to the operator
- Supervisor system from a single point



Edge banders - Sizing edge banders

HOW TO GET A PERFECT PANEL

The goal is to work the components for the furniture with high quality. That is possible with Stefani TOP range thanks to a structural design studied meticulously in every part.



The basements are assembled in a closed box structure with steel elements with very high torsional stiffness.

The columns are made of spheroidal cast iron and have a special and exclusive bracing design to better manage intensive processing.



The sliding of the panel, precise and constant over the years is carried out on link chains of sintered isotropic material and on roller bearings at very high precision which move on guides with a non-deformable irremovable coupling. The extreme reliability of this solution, recognized by the market, allows very long maintenance intervals and with very low costs. The chain link is made with the same technology with which tools are built to guarantee an incredible durability and resistance to stress.

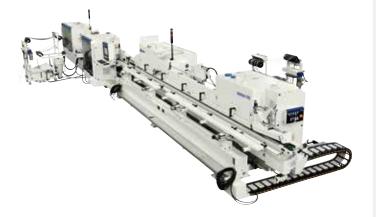
The movement of the chain is carried out with a special pinion which resists vibrations at speeds up to 70 m/min.







Extremely precise machine set-up with the opening of the beams thanks to perfect combination of rack screws and recirculating ball screws to cancel backlash.



Infinite range of application, with basement designed to process from narrow components for drawers, 60 mm wide, up to the sides for long cabinets, 3,700 mm long.



Versatility in the processing of grooves, complex design in soft-forming or postforming process, are possible with the manual or automatic adjustment of the working line up to 90 mm.



Fluid and precise panel movement thanks to the pressure belt supported by a solid pressure in non-deformable steel.



The upper belt is motorized (**stefani sb**) to ensure the best transport conditions even in the case of large and heavy panels. The vertical movement of the pressure device is automatically managed by the NC according to the panel thickness.

Edge banders – Sizing edge banders

PANEL INFEED

The correct panel infeed is essential to comply with the shape and final size of the component. The Stefani TOP range includes a large know-how and numerous solutions for the perfect introduction of the panel in any condition.

SINGLE SIDED MACHINES

Middle high productivity

Automatic infeed device by belts with dynamic movement of dogs for the longitudinal and transversal insertion.

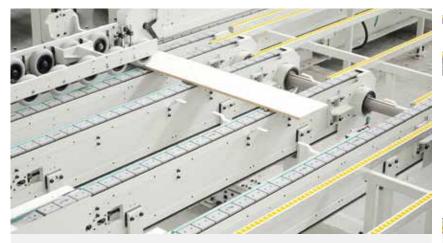


Versions available for:

- panels already sized an squared (coming from beam saw/end tenoners/machining centers)
- panels to be sized and squared with overhead reference guide on right side.

High productivity.

Automatic infeed device by chains with dogs for the longitudinal and transversal insertion.



Version for panels already sized and squared (coming from beam saw/end tenoners/machining centers).



External milling unit for panel squaring and sizing.



Edge banders - Sizing edge banders

DOUBLE SIDED MACHINES

Longitudinal introduction



Approach system to the entry guide for machines in the version for only longitudinal pass machining.



Approach system to the entry guide for machines in the version for longitudinal + transversal pass machining.

Transversal introduction



Lifting and waiting system of dogs with more sectors that allow to maximize productivity with each panel size.

Specific dogs for delicate materials or for high speeds.





Double dog system for the precise and constant transport of the panel along the entire machine for the transversal processing. To ensure the maximum possible production with each panel size, the dog pitch can be chosen among: g00 mm, 500 mm, 400 mm, 300 mm. Dogs are adjusted automatically in height.



Edge banders - Sizing edge banders

PREPARATION AND SIZING OF PANEL

Sizing, squaring and preparation of the surface finish before the gluing are the objectives of the panel preparation working units, to always create the best conditions for a perfect junction quality.

PREMILLING UNITS

The vertical arrangement of the tools provides excellent squaring and sizing of the panel with a high degree of finishing / smoothing of the raw panel.

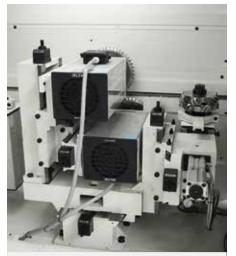


RT-H pre-milling unit. Ideal for a perfect microfinish of the panel before the edge banding.

- Tool diameter: 100 mm
- Power: up to 4 kW
- Copying/no copying function managed by NC
- Vertical tool position managed by NC

Combi pre-milling unit. Ideal for bigger removals.

- Tool diameter: 190 mm
- Power: up to 5.5 kW
- Working line adjustable by NC



Anti-chipping and double hogging unit. Ideal for high levels of chipping.

Tool diameter:

- chipping: 190 mm
- double hogging: 250 mm Power:
- chipping up to 5.5 kW
- double hogging: up to 11.5 kW

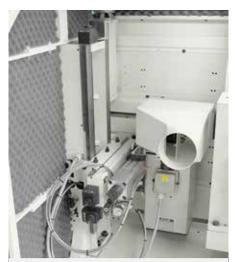
Available also in double hogging version only



Hogging + scoring unit. Ideal for veneer panels.

Tool diameter:

- scoring: 180 mm
- hogging: 300 mm
- Power:
- scoring: up to 5.5 kW
- hogging: up to 11.5 kW



Milling unit. Ideal for grooves.

Tool diameter: - blade: 220 mm - tools: 125 mm Power: Up to 8.5 kW



Possibility of:

- NC adjustment in function of the panel thickness
- Working line adjustable by NC

Edge banders - Sizing edge banders

EDGE APPLICATION

For the production of furniture with high quality edgebanding, an up to task technology of edge application is required. Stefani TOP has a wide and complete range of solutions for the perfect application of the edge, in function of the productivity required, the materials to be applied, and the degree of finishing required.

GLUING UNITS

For the application of the glue to the panel by means of the glue roller with speed up to 70 m/h.



Possibility of motorized system for edge feeding and cutting, with +/- 2 precision. For cost optimization of waste.

NC dosage of the applied glue quantity depending on glue type or panel. Automatic glue leakage lock when the machine is stopped.

PREMELTING SYSTEMS

For the melting and continuous feeding of glue



Feeding of glue in granules Melt capacity: from 8.5 Kg/h up to 40 Kg/h



Premelting devices for PU glue in 2 Kg cartridges. Melt capacity up to 16 Kg/h. Possibility of using a SLOT applicator.



Compact premelting device for PU glue in 2 Kg cartridges, integrated in the machine. Melt capacity up to 6 Kg/h. Flexible change between different PU glue color with 2 devices in sequence.

EDGE MAGAZINES

Device for the automatic and instantaneous changeover of the edge when the roll ends or to change the program.



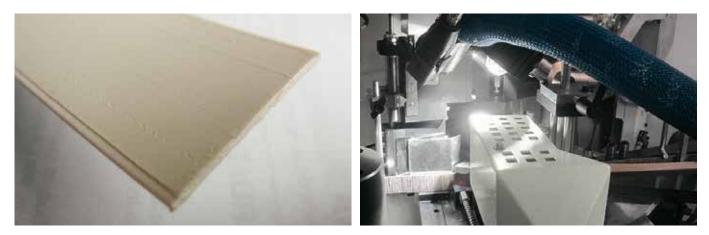
Versions available: 1 coil, 2 coils, 6 coils, 12 coils, 24 coils.





ADVANCED TECHNOLOGIES OF THE EDGE APPLICATION

GLUE LINE OPTIMIZATION



SlimLine

An incredible glue line with thickness from 0.08 mm can be obtained thanks to the **SlimLine** technology, that allows the glue dosage directly on the edge rather than on the panel. NC management of all process parameters (length, height, thickness of glue line), with the best technical and aesthetic results of the edged panel.

The results of SlimLine are certified by

ZERO GLUE LINE

Finishing quality and an amazing design can be achieved with the technologies that allow the edging without the use of glue.



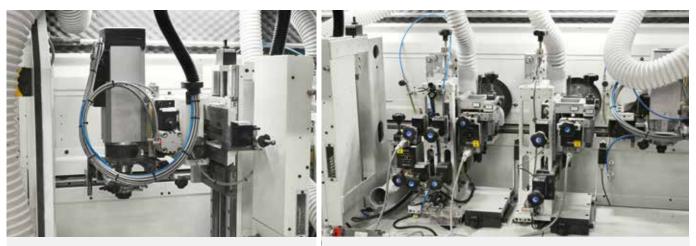
AirFusion

AirFusion allows to make invisible the junction point between edge and panel using the complete range of laser edges or pre-glued edges for application Laser / Hot Air. High-temperature air melts the appropriate layer of adhesive present in the edge, allowing its adhesion to the panel.



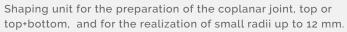


THE GREATEST KNOW HOW AND THE BIGGEST SPECIALISTS IN EVOLVED SOFTFORMING APPLICATIONS



Shaping unit Ideal for the production of shaped panels

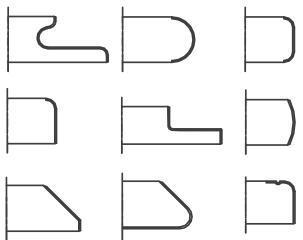
Tool diameter: - Blade 220 mm - Tools: 125 mm Power: up to 8.5 kW



Tool diameter: 76 mm Power: up to 1.8 kW



Quick and precise set-up with the possibility of the HSK tool release.





GLUING



Gluing unit for softforming with pressure zone up to 1.5 m long.

Ideal for any type of profiles with edge thickness up to 0.6/0.8 mm and EVA/PU glue.



Gluing unit for softforming with pressure zone up to 4.5 m long.

Ideal for any type of profiles with edge thicker than 0.8 mm and EVA/PU glue.



The edge pressure zone is set up as a function of the profile to be achieved with cooled shoes or a combination of shoes / rollers.



Up to 4 profiles can be installed in the same machine with manual or NC rotation.



Longitudinal shear unit for the engraving of the excess edge.

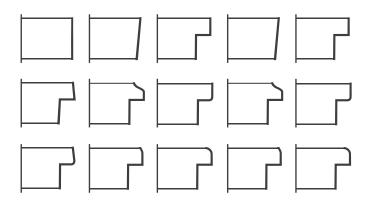


Scraping unit for the removal of the excess edge and the finishing of the profile.



DOORS MACHINED PERFECTLY WITH THE STEFANI TOP EXCLUSIVE PROCESS

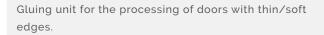






Doorjambs / door leafs profiles







Gluing unit for the processing of doors with edges in soft and rigid veneer.

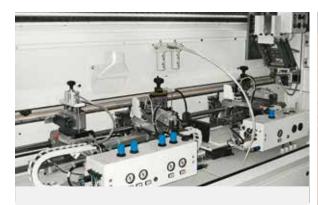
THE GLUING ZONE CAN BE SET UP TO PROCESS SEVERAL INTERCHANGEABLE PROFILES



Straight door profile.

Door profile with leaf.

Door profile with leaf and softforming on top.



Corner finishing units for doors edgebanded on 3 or 4 sides.







Sanding units for the finishing of doors machined with veneer edge.



WHERE THE QUALITY FURNITURE IS PRODUCED: FINISHING UNITS



END TRIMMING UNIT



Range of horizontal end trimming units for cutting of excess edge after the gluing. They optimize the productivity with speeds up to 30 m/min.

Precise and constant cutting thanks to front and side copying devices. Adjustable excess cutting, even by NC.

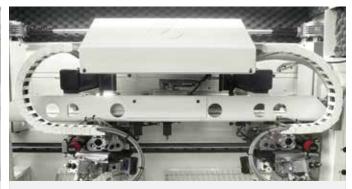
TRIMMING UNIT



Trimming unit for the removal of the upper and lower excess of the edge.

Power up to 1.8 Kw

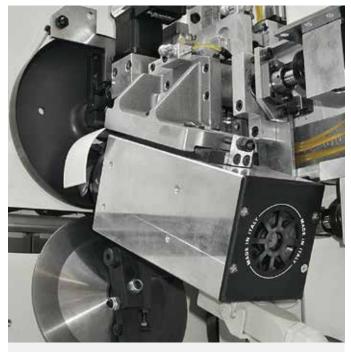
- Standard double vertical position for the rough trimming/ finishing of the edge



High productivity end trimming unit sliding by means of linear or power assisted motors to minimize interaction with the panel and guarantee high quality of the edge cutting.

Available speed from 35 m/min to 55 m/min

FINE TRIMMING UNIT

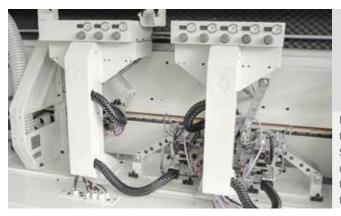


Fine trimming unit for edge finishing with chamfer / radius. Power up to 1.8 kW.

- Up to 3 radii + 1 chamfer automatically with different equipments.
- TwinFeeler for a precise copying even at high speed
- ZeroLock for precise and quick tool connection



CORNER ROUNDING UNITS



CORNER ROUNDING UNIT WITH 4 MOTORS

For the complete processing of the straight/shaped panel with the rounding of the corners and the fine trimming of the sides also with wooden/veneer edge. Speed up to 25 m / min. Speed up to 35 m / min with power assisted movement of motors for an extra finishing quality. 8 mm minimum panel thickness. Equipments for NC automatic processing up to 3 radii + infinite thin edges.



CORNER ROUNDING UNIT WITH 2 POWER ASSISTED MOTORS

For the complete processing of the straight / shaped panel. Rounding of the corners and fine trimming of sides with power assisted movements that maximize the performance of automatic machining. Speed up to 35 m/min. Equipments for NC automatic processing up to 3 radii + infinite thin edges or changeover up to 8 single-process tools by NC.

AN EVOLVED PROCESS, STARTING FROM DETAILS



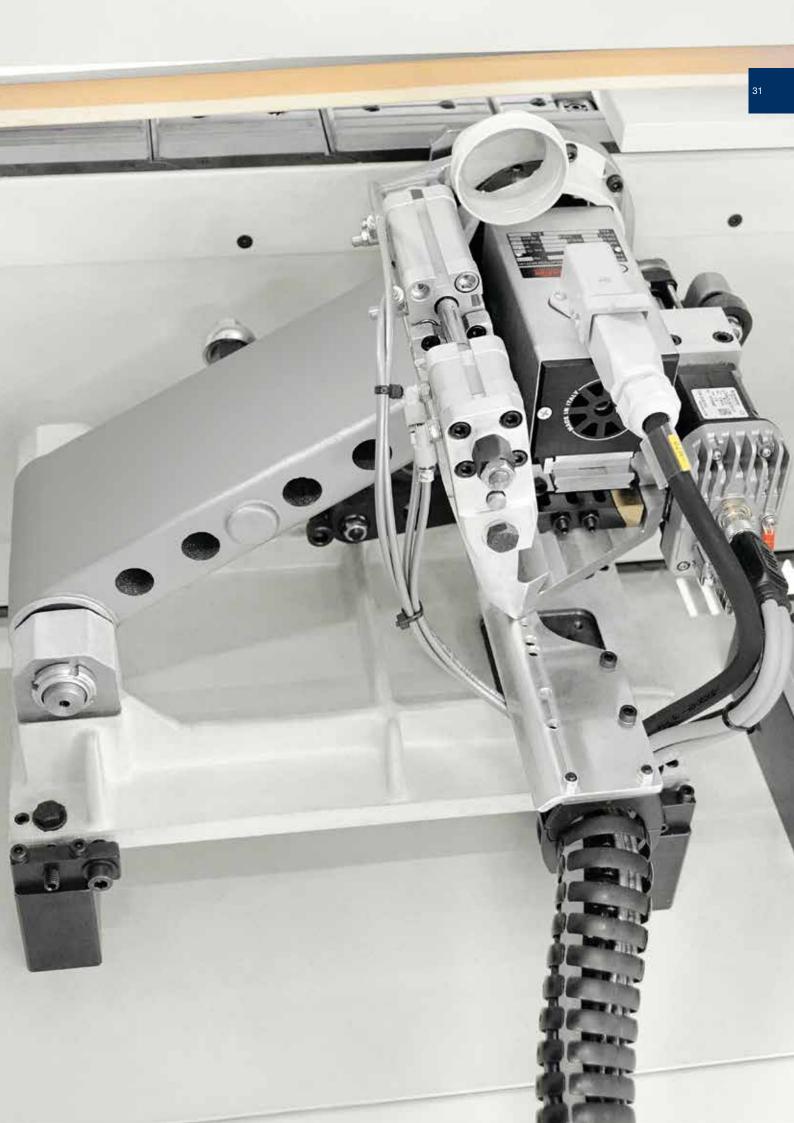
Processing up to 3 radii + infinite thin edges with NC instant exchange with compact and lightweight MULTIEDGE device. Monoblock tools with 4 cutters, rotation speed up to 18000 rpm.



Copying devices specific for the machining of shaped panels. J-SHAPE



ZERO LOCK No vibration and immediate tool replacement with zero backlash thanks to the new interface .





A PANEL PERFECT IN EVERY DETAIL



GROOVING UNITS



Grooving unit for slots/grooves Power up to 5.5 kW Possibility of NC horizontal and vertical axes Tool: 125 mm diameter x 70 mm



Possibility of motors with HSK release and more tools Installed on the shaft.



Flexible grooving unit for slots/grooves with NC flexible exchange up to 8 tools. Power up to 8.5 kW Possibility of horizontal and vertical NC axes and rotation. Tool: 125 mm diameter x 70 mm.

EDGE SCRAPING UNIT





Versions up to 4 profiles with an NC-exchange.



TwinFeeler for a perfect copying even at high speed.

Unit for the final smoothing of the edges previously machined with tool.

GLUE SCRAPING UNIT



For the removal of any residual glue from the surface of the panel.

Spray device for the lubrication of the blades and for the brightening of ABS edges.



Rotating brush device for the brightening and the final cleaning of the applied edge.

INK-JET UNIT



Inkjet printer for the marking of the panel in the upper or lateral surface.

SANDING UNITS

For the surface finishing of veneer / wooden edges



Sanding unit for chamfers/radii.



Sanding unit for profiled panels.





33

Edge banders - Sizing edge banders



MAESTRO PRO-EDGE

An expert operator that guides you to produce quickly. Maestro Pro-Edge allows an easy quick machine management without errors.



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Immediate, powerful, custom operator interface

Maximum ease of use with the convenient 17" screen. Intuitive programming with a specific graphic design. USB and Ethernet ports for easy connection to the company network.



Complete and continue checks for all machine functionalities to get the maximum possible efficiency

Productivity always under control

In case of machine alarms, the PC indicates the details of the alarm, guiding the operator to the solution of the problem. The knowledge of the operator gained in solving the problemscan be stored and made available in the future.



Processing data, panels worked, edgeing used, daily, monthly and yearly. Reports allow production monitoring by statistical graphics and Excel files.



WEB BASED TELEDIAGNOSI The special hardware structure allows teleservice through an internet connection. This allows our trained technicians to access all machine levels from SCM headquarters resulting in the diagnosis and resolution of most problems or to update the programs according to customer



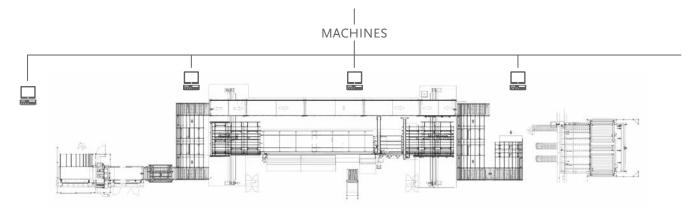
SAVENERGY: LESS CONSUMPTION = LESS COST Save up to 10% on annual consumption of energy thanks to the package of solutions for saving energy.

MAESTRO WATCH SUPERVISOR

Connecting all the command and control information into a production line in real time is extremely simple thanks to the new, powerful supervisor MAESTRO WATCH by SCM, perfect for controlling and managing the entire process from a single, convenient position.



Immediate start of programs to all machines of the line, preliminary check of the processing feasibility. Zone management of the line to ensure the highest productivity with every program.









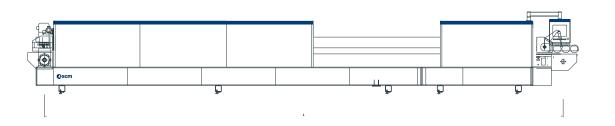
- Rapid and correct insertion of the panels in the cell, thanks to the SIDE FINDER technology that, via a display in the operating position, shows the operator which edge to insert in the cell next.
- Preliminary simulation of machining times.
- Immediate availability (even on mobile devices) of the machining information relating to each panel, regardless of where the panel is in the cycle, due to the continuous tracking provided by the supervisor system.
- Check of machining feasibility for each component.

MAESTRO WATCH is customized and optimized by SCM depending on the line that has to supervise

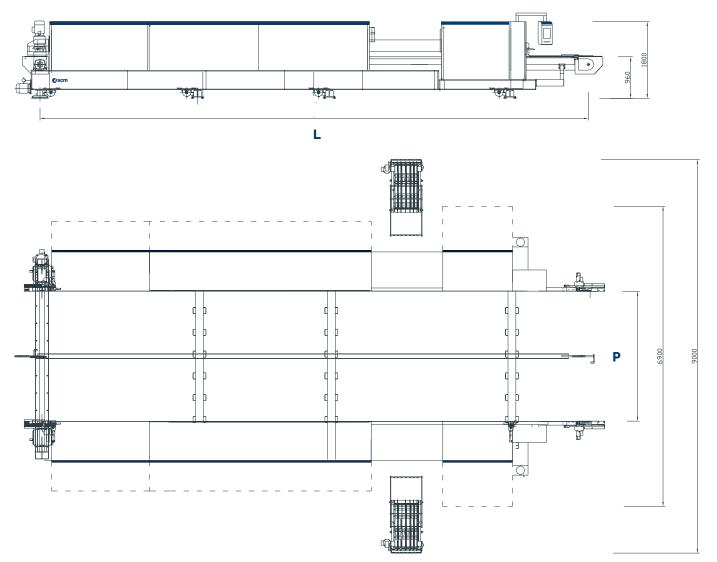


LAYOUT

STEFANI ONE - TWO



STEFANI SSB - SB



TECHNICAL DATA

STEFANI ONE - TWO

	Speed	Interaxis max. L	Panel width (min/max) P	Panel thickness (min/max)	Working line (min/max)
stefani one	40 m/min	15.300 mm	90 mm (min)	8/80 mm	35/90 mm
stefani two	40 m/min	15.300 mm	225/3.700 mm	8/80 mm	35/90 mm

STEFANI SSB - SB

	Speed	Max opening speed of beams	Interaxis max. L	Panel width (min∕ max) P	Dog distance	Automatic height of dogs	Panel thickness (min/max)	Working line (min/max)
stefani sb one	40 m/min		15.300 mm	90 mm (min)			8 /80 mm	35/90 mm
stefani ssb	40 m/min	10 m/min	12.600 mm	225/3.700 mm	900 mm (opt 500 - 400 mm)	12/18/25	8 /80 mm	35/90 mm
stefani sb	40 m/min (opt 70 m/min)	10 m/min	18.200 mm	225/3.700 mm	500 mm (opt 300 - 400 mm)	12/18/25	8 /80 mm	35/90 mm
stefani 60	40 m/min (opt 70 m/min)	10 m/min	18.200 mm	60/1600			8 /80 mm	35/90 mm

PROCESSABLE MATERIALS

EDGES		
TYPE OF EDGE	EXAMPLE OF APPLICATION	MAX THICKNESS
Paper	Raw / prepainted	0,6 mm
Plastic in coil	ABS, PVC, PP (with/without film) PMMA (polished or rough to polish / smooth)	3 mm
Aluminum	Shine/ Satin	3 mm
Precut strips	Veneer, PC, Unicolor	1 mm
Solid wood	Raw / polished / drawn	25 mm

PANELS

TYPE OF PANELS	EXAMPLE OF APPLICATION
Chipboard	
MDF	Only profiled/edged
Light panels	With frame/without frame
Solid wood	Profiled/smooth
Other materials	Aluminium/Cardboard PC/Tri Wall Polycarbonate Sheet/plasterboard
GLUES	ccc.plasteroourd

ZERO JOINT

PRE-GLUED EDGES		COEXTRUED EDGES	
AirFusion Application	Yes	AirFusion Application	Yes
LaserLine Application	Yes	LaserLine Application	Yes

HOT-MELT GLUE	
EVA glue	Yes
PU glue	Yes
SLIM LINE	Yes

CONSUMPTION/POWER

Supply voltage: **400 V/50 Hz EU** (customizable depending on the country) Installed power (kW): depending on the machine equipment Compressed air pressure for connection: 6 Bar Compressed air consumption (NL / min): depending on the machine equipment Suction: air speed **30 m/sec** Suction: air consumption (m3/sec): depending on the machine equipment

CONNECTIVITY

ETHERNET (std) USB (std) WI-FI (opt.)

Suction: exhaust outlet diameter from 80 mm to 140 mm

THE STRONGEST WOOD ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND

Over 65 years of success gives SCM the centre stage in woodworking technology. This heritage results from bringing together the best know-how in machining and systems for wood-based manufacturing. SCM is present all over the world, brought to you by the widest distribution network in the industry.

65 years history
3 main production sites in Italy
300.000 square metres of production space
17.000 machines manufactured per year
90% export
20 foreign branches
350 agents and dealers
500 support technicians
500 registered patents

In SCM's DNA also strength and solidity of a great Group. The SCM Group is a world leader, manufacturing industrial

SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL

INDUSTRIAL MACHINERY

Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.





TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM, PLASTIC, GLASS, STONE, METAL



The technical data can vary according to the requested machine composition. In this catalogue, machines are shown with options. The company reserves the right to modify technical specifications without prior notice; the modifications do not influence the safety foreseen by the CE Norms.

TECHNOLOGIES

equipment and components for machining the widest range of materials.

MACHINES AND COMPONENTS

INDUSTRIAL COMPONENTS

Technological components for the Group's machines and systems, for those of third-parties and the machinery industry.







Cscmfonderie

CAST IRON



ELECTRIC PANELS

METALWORK



is more



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