

# sergiani range

hydraulic presses with electronic control



# PRESSING FOR INNOVATION

Sergiani 1946



Sergiani 1946



Sergiani 1946

## SINCE 1946

Hot and cold presses with manual panels loading



sergiani gs  
sergiani gs-f

Hot presses with automatic panels loading



sergiani gs-a

Cold presses with automatic panels loading



sergiani pf

Presses for edge glued beam panels



sergiani gsl-a  
sergiani gsl-k

Presses for lamellar panels



sergiani gsl-kl

Frame press for lamellar and edge glued beam panels



sergiani stv

Bending presses



sergiani gs-c

Embossing presses



sergiani mvs

Vacuum box presses



sergiani vb series

Presses for 3d panels laminating



sergiani 3d form  
sergiani 3d form hp

Automatic one daylight presses with continuous cycle



sergiani mvc

Automatic multi daylight presses



sergiani las  
sergiani bvc  
sergiani mlt

## FLEXIBILITY



Complete offer of solutions, presses and composition lines with automations, for all applications in the wood sector.

## PRODUCTIVITY



Line solutions and presses configurations that satisfy both craft woodworking and large-scale industry requirements.

## POWER



Presses composed by a wide range of thrust powers that meet all different needs of materials.

## VERSATILITY



Series of applications for all types of process in the wood sector: from panels laminating to the multi-layered panels production.

## QUALITY



Precision together with special working technologies, and the use of first quality components allows obtaining the best result of the pressed product.

## CUSTOMIZATION



Innovative in-line machines solutions to respond to different customers' needs with tailor-made configurations.

# TECHNICAL FEATURES OVERVIEW

## TECHNOLOGICAL ADVANTAGES

### Structure quality

The sturdy structure has been engineered with a high safety coefficient to guarantee the **highest level of resistance and rigidity in each processing phase.**



### Flatness control

to protect press structure in case of loading error by the operator (optional).



**Hydraulic cylinders**  
The steel rod is chromed with a thick layer and rectified, all gaskets are high resistance to guarantee long lifetime and **perfect seal.**



### Automatic exclusion of a cylinder row

It allows to process small size panels avoiding use support panels (standard with 8-10 cylinders presses, optional with 6 cylinders version).



**Double rack and pinion system** connected by a torsion bar to grant a planar movement of the movable press platen.



### Hydraulic unit, the hearth of the press

It is featured with first-quality components to grant high efficiency and reliability over time. Double pump dipped in oil with automatic switch, to pass from high capacity and low pressure pump, to the second low capacity and high pressure pump.



# sergiani range

hydraulic hot press with manual loading/unloading

Possibility to load on 3 sides, greater flexibility and ease of working.

Possibility to equip the press with intermediate platens to increase production capacity. (optional)



**Control panel with siemens colour touch screen**  
The control panel is equipped with a software that allows to automatically calculate the hydraulic pressure, manage the heating system, carry out a complete diagnostic, program and save all working parameters. (optional)

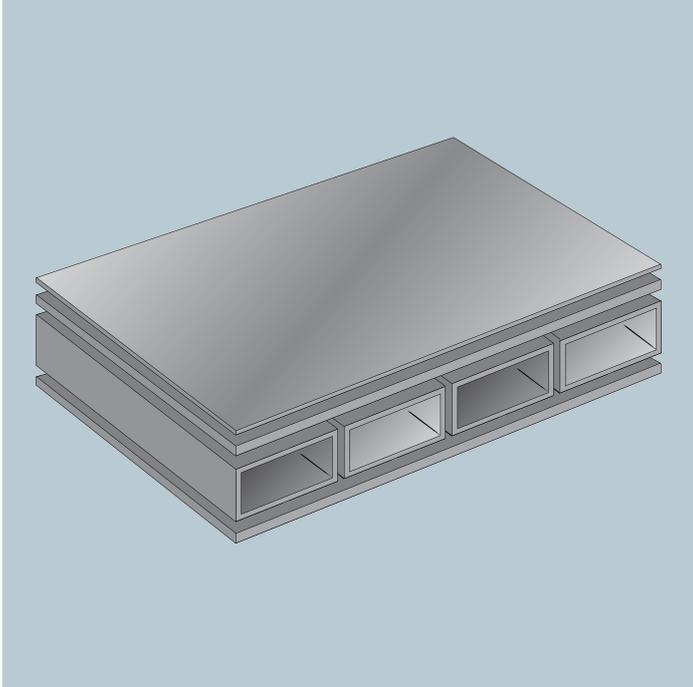


**Perimeter safety cable**  
according to CE norms, it allows easily loading on 3 sides of the press.

TECHNICAL DATA				
Model	Platens dimensions (mm)	N° of cylinders - diameter (mm)	Stroke/ opening (mm)	Thrust (ton)
gs 4/20	2500x1300	4 - 55	500/500	20
gs 4/60	2500x1300	4 - 70	400/400	60
gs 6/30	3000x1300	6 - 55	500/500	30
gs 6/90	2500x1300	6 - 70	400/400	90
gs 6/120	2500x1300	6 - 85	450/450	120
gs 6/120	2500x1600	6 - 85	450/450	120
gs 6/70	3000x1300	6 - 70	400/400	70
gs 6/90	3000x1300	6 - 70	400/400	90
gs 6/120	3000x1300	6 - 85	450/450	120
gs 6/90	3100x1300	6 - 70	400/400	90
gs 6/120	3100x1300	6 - 85	450/450	120
gs 6/120	3000x1400	6 - 85	450/450	120

TECHNICAL DATA				
Model	Platens dimensions (mm)	N° of cylinders - diameter (mm)	Stroke/ opening (mm)	Thrust (ton)
gs 6/120	3100x1600	6 - 85	450/450	120
gs 6/90	3500x1300	6 - 70	400/400	90
gs 6/120	3500x1300	6 - 85	450/450	120
gs 8/160	3000x1300	8 - 85	450/450	160
gs 8/160	3100x1300	8 - 85	450/450	160
gs 8/160	3100x1600	8 - 85	450/450	160
gs 8/110	3500x1300	8 - 70	400/400	110
gs 8/160	3500x1300	8 - 85	450/450	160
gs 8/160	3800x1600	8 - 85	450/450	160
gs 10/200	3500x1300	10 - 85	450/450	200
gs 10/200	3800x1600	10 - 85	450/450	200

# AVAILABLE VERSIONS

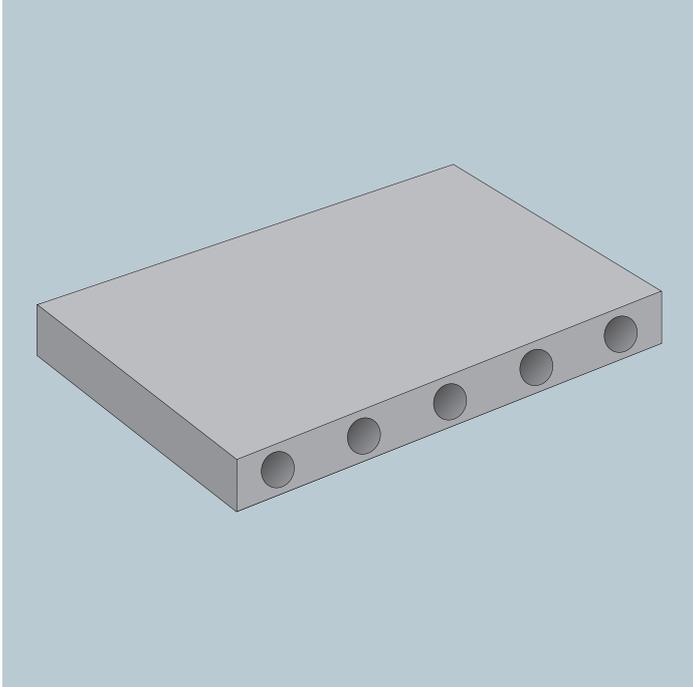


## ASSEMBLED PLATENS VERSION

- Max. working temperature 120°C
- Max. specific working pressure 5 kg/cm<sup>2</sup>
- Heating fluid pressure 0,5 bar

It is composed by:

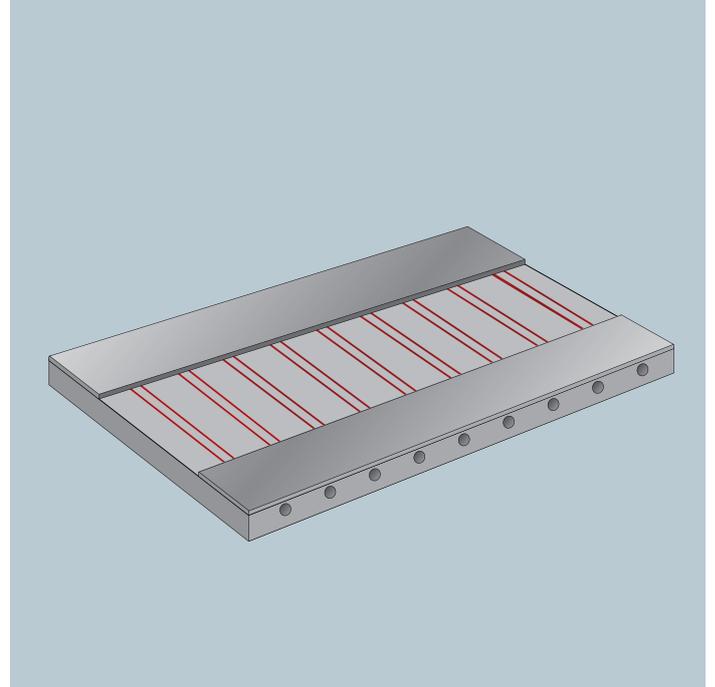
1. Aluminium sheet for a perfect surface finish and heating distribution;
2. Calibrated steel sheet;
3. Steel heating coil for heating fluid circulation;
4. Tubulars to guarantee the mechanical resistance uniformity of the platen.



## SOLID STEEL PLATENS VERSION

- Max. working temperature up to 250 °C (as an option, standard 120°C)
- Max. specific working pressure 30Kg/cm<sup>2</sup>
- Heating fluid pressure 10 bar

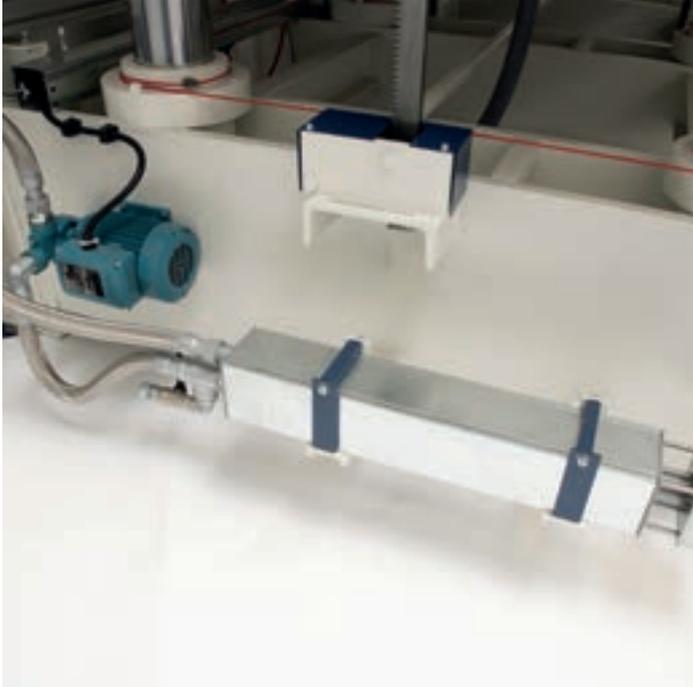
The heating platens are made of steel drilled sheet of 40 mm width in order to ensure the heating fluid circulation. A mylar sheet protects the platen. On request it is possible to have rectified press platens to increase surface finish.



## ELECTRIC PLATENS VERSION

- Max. working temperature is 120°C.
- Max. specific working pressure is 10Kg/cm<sup>2</sup>.

The platen is made of a honeycomb panel and an aluminum sheet inside which the electric resistances are fixed.



## HEATING INSTALLATIONS

- Version without heating generator: the press is supplied with an inlet manifold and an output one to be connected to the customer's heating system.
- Version with electric boiler for diathermal oil, complete of: pump for fluid circulation system and expansion tank. Maximum standard working temperature is 120°C, optional version 150°C -180°C-200°C (it includes an increase of boiler power, and heat reduction system).
- Version with electric boiler for water, it is complete of pump for fluid circulation system and expansion tank. Maximum working temperature is 90°C.



## COLD PLATENS VERSION

### • PF Platens.

PF platens version are composed by a fiber panel covered with an aluminum sheet.

### • PL Platens.

PL platens version are composed by a machined iron sheet to ensure a perfect flatness of the working surface, increased sturdiness and long-lasting durability.



# sergiani range

hydraulic hot press with automatic loading/unloading



**Electronic control of all machine functions** via digital operator control panel with Siemens touch screen.



Unloading table with idle wheels.



**Reliable and high-performance** loading/unloading system, thanks to the Mylar continuous movement.

## TECHNICAL DATA

Model	Platens dimensions (mm)	N° of cylinders - diameter (mm)	Stroke/opening (mm)	Thrust (ton)
gs-a 6/90	2500x1300	6 - 70	200/120	90
gs-a 6/120	2500x1300	6 - 85	200/120	120
gs-a 6/120	2500x1600	6 - 85	200/120	120
gs-a 6/90	3000x1300	6 - 70	200/120	90
gs-a 6/120	3000x1300	6 - 85	200/120	120
gs-a 6/90	3100x1300	6 - 70	200/120	90
gs-a 6/120	3100x1300	6 - 85	200/120	120
gs-a 6/120	3000x1400	6 - 85	200/120	120
gs-a 6/120	3100x1600	6 - 85	200/120	120
gs-a 6/90	3500x1300	6 - 70	200/120	90

## TECHNICAL DATA

Model	Platens dimensions (mm)	N° of cylinders - diameter (mm)	Stroke/opening (mm)	Thrust (ton)
gs-a 6/120	3500x1300	6 - 85	200/120	120
gs-a 8/160	3000x1300	8 - 85	200/120	160
gs-a 8/160	3100x1300	8 - 85	200/120	160
gs-a 8/160	3100x1600	8 - 85	200/120	160
gs-a 8/110	3500x1300	8 - 70	200/120	110
gs-a 8/160	3500x1300	8 - 85	200/120	160
gs-a 8/160	3800x1600	8 - 85	200/120	160
gs-a 10/200	3500x1300	10 - 85	200/120	200
gs-a 10/200	3800x1600	10 - 85	200/120	200

# TECHNICAL FEATURES OVERVIEW

## TECHNOLOGICAL ADVANTAGES

### **Possibility to select the following optional configurations:**

- upper mobile platen can be split in independent platens, for a greater production flexibility;
- powered chain for automatic loading of the stack with retractable rollers or manual loading;
- upper mobile platens covered with a thick steel sheet machined on CNC centre to increase surface finishing of the pressed product.

### **Structure quality**

Sturdy structure made of welded and normalised steel beams. The constructive design guarantees the highest level of resistance and rigidity in each pressing phase.

The **structure** of the upper mobile platens and the bottom fixed platen is made of **welded beams by means of precision jigs**.

Cross or longitudinal panel loading with 1000 mm standard daylight opening, different openings on request.



**Double rack and pinion system** connected by a torsion bar to grant a planar movement of the movable press platen.



**Perimeter safety cable** according to CE norms, it allows easily loading on 3 sides of the press.



**Hydraulic unit** consists of a double pump and related electric motor dipped in hydraulic oil for a longer life and lower levels of noise. Automatic pressure loss recovery device ensures keeping the level set by the operator, in case of machined material failure.



**Control panel with siemens colour touch screen**

The control panel is equipped with a software that allows to automatically calculate the hydraulic pressure, automatic platens opening through timer, manage the heating system, carry out a complete diagnostic, program and save all working parameters. (optional)

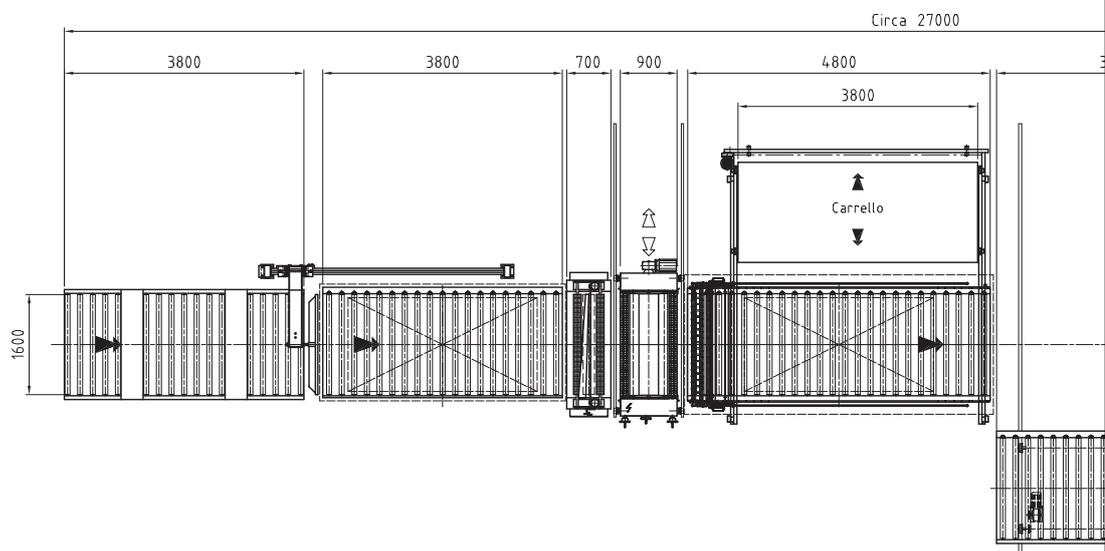
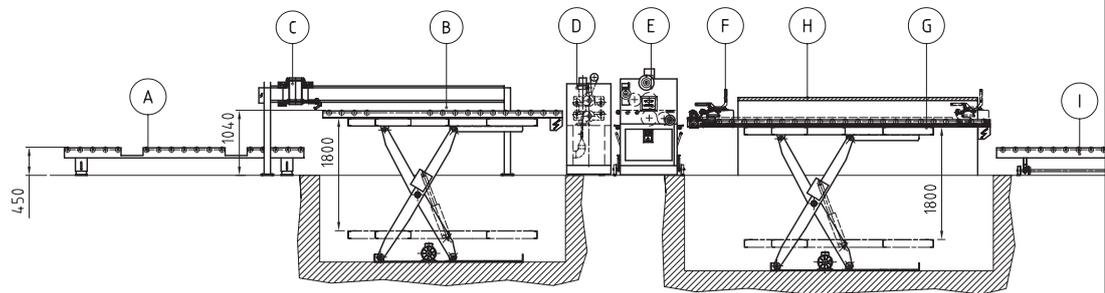


**Hydraulic cylinders**

The steel rod is chromed with a thick layer and rectified, all gaskets are high resistance to guarantee long lifetime and perfect seal.

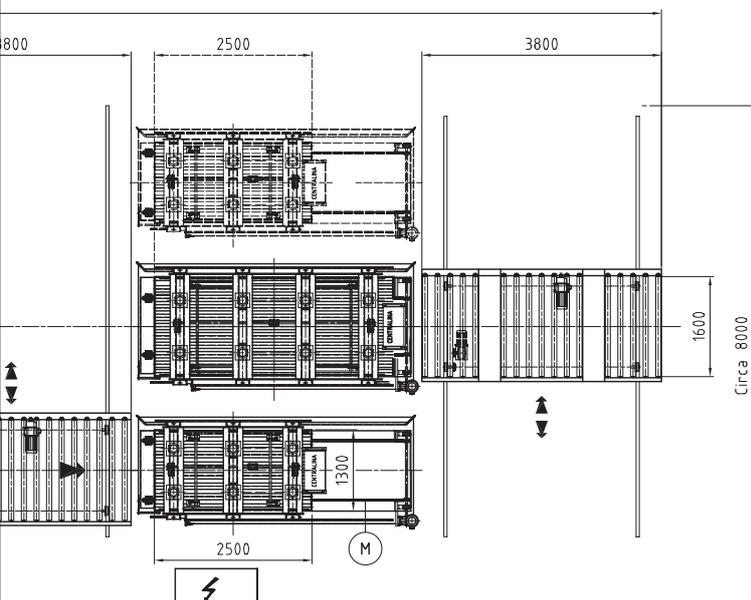
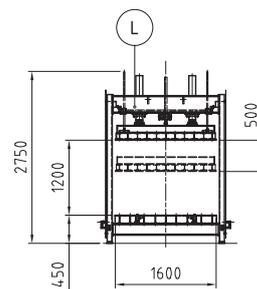
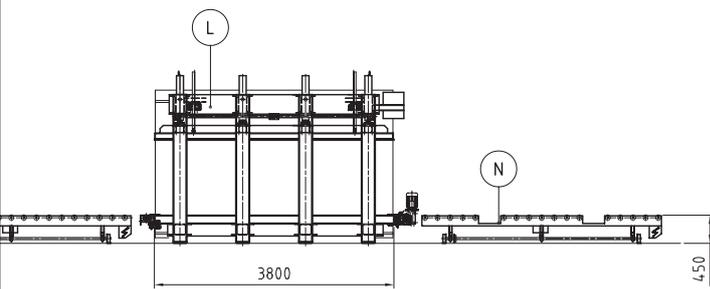
# AVAILABLE VERSIONS

Customized production line solutions  
for panels composition.



## TECHNICAL DATA - Version with cross loading panel

Model	Platens dimensions (mm)	N° of cylinders - diameter (mm)	Stroke/opening (mm)	Loading side	Thrust (ton)
pf-t 4/90 25-13	2500x1300	4 - 90	500/1000	2500	90
pf-t 6/120 25-13	2500x1300	6 - 90	500/1000	2500	120
pf-t 8/160 25-13	2500x1300	8 - 90	500/1000	2500	160
pf-t 4/90 30-13	3000x1300	4 - 90	500/1000	3000	90
pf-t 6/120 30-13	3000x1300	6 - 90	500/1000	3000	120
pf-t 8/160 30-13	3000x1300	8 - 90	500/1000	3000	160
pf-t 4/90 35-13	3500x1300	4 - 90	500/1000	3500	90
pf-t 6/120 35-13	3500x1300	6 - 90	500/1000	3500	120
pf-t 8/160 35-13	3500x1300	8 - 90	500/1000	3500	160



## TECHNICAL DATA - Version with longitudinal loading panel

Model	Platens dimensions (mm)	N° of cylinders - diameter (mm)	Stroke/opening (mm)	Loading side	Thrust (ton)
pf-l 4/90 25-13	2500x1300	4 - 90	500/1000	1300	90
pf-l 6/120 25-13	2500x1300	6 - 90	500/1000	1300	120
pf-l 8/160 25-13	2500x1300	8 - 90	500/1000	1300	160
pf-l 4/90 30-13	3000x1300	4 - 90	500/1000	1300	90
pf-l 6/120 30-13	3000x1300	6 - 90	500/1000	1300	120
pf-l 8/160 30-13	3000x1300	8 - 90	500/1000	1300	160
pf-l 6/120 35-13	3500x1300	6 - 90	500/1000	1300	120
pf-l 8/160 35-13	3500x1300	8 - 90	500/1000	1300	160
pf-l 8/160 35-16	3500x1600	8 - 90	500/1000	1600	160

# TECHNICAL FEATURES OVERVIEW

## TECHNOLOGICAL ADVANTAGES



Unloading table made of steel triangle rods.

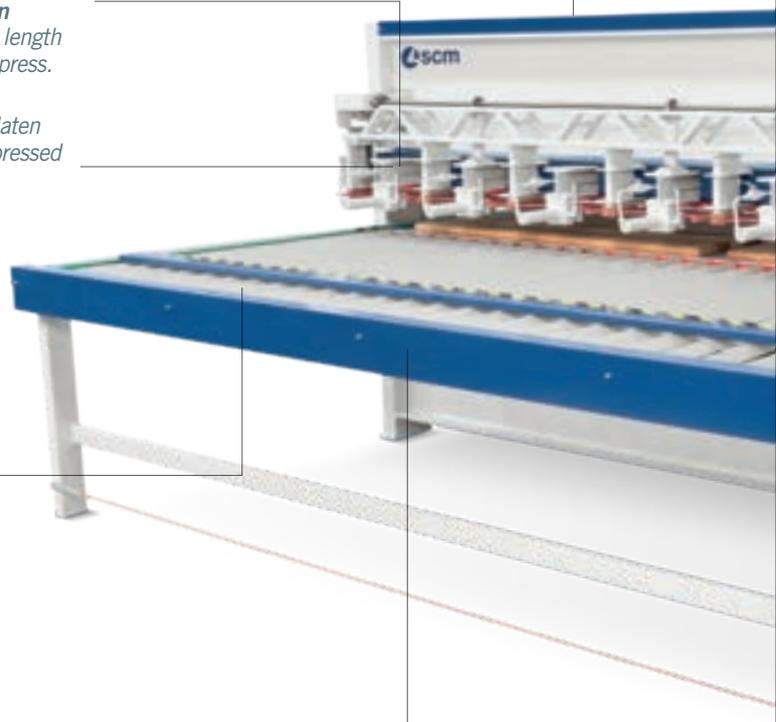


Automatic beams loading inside the press, available versions with automatic composition of panels.

Edge glued beam panels top table loading is made of **galvanised steel triangle profiles** to minimise the contact of panel with any glue drops and to facilitate cleaning.

Horizontal cylinders **manual exclusion** according to the length of the panels to press.

Vertical thrust platen guarantees the pressed panel flatness.



### Types of available automatic composition with beams loading by:

- Infeed fixed table;
- Belt loader;
- Vertical hopper;
- Horizontal loader with chains + rollers.

All the automatic compositions systems include: vertical glue spreader and beam positioner to compose multi-row panels by a pneumatic piston.

### Possibility to select following options:

- Upper mobile platen;
- Cutting device at the press outfeed for panel sizing and waste optimization (fig. a);
- Heating systems by: water, diathermal oil or high frequency according to the required productivity.

*sergiani gsl-k version with edge glued beam manual loading and single step pressing cycle.*

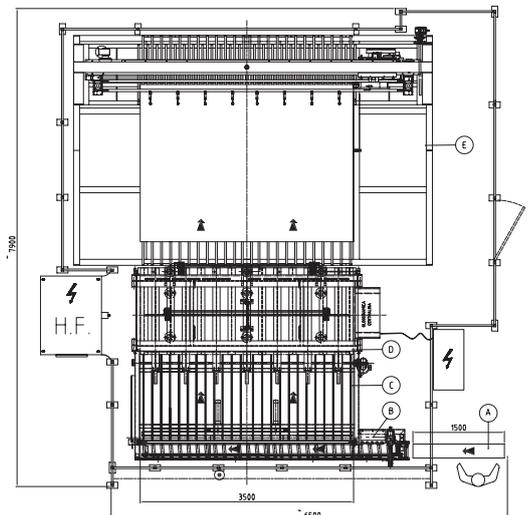


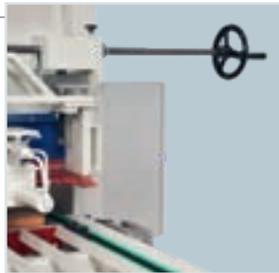
fig. a

# sergiani range

automatic press for edge glued beam panels



**Independent rear presser** for continuous panels pressing.



Possibility to adjust the front pushing blades height. (optional)



**Control panel with siemens colour touch screen**

The **control panel** is equipped with a software that allows to **automatically calculate the hydraulic pressure**, manage the heating system, **carry out a complete diagnostic**, program and save all working parameters.



**Three independent hydraulic units:** for the independent adjustment of the vertical, horizontal and rear presser thrust.

## TECHNICAL DATA

Max. recommended working thickness: 40mm

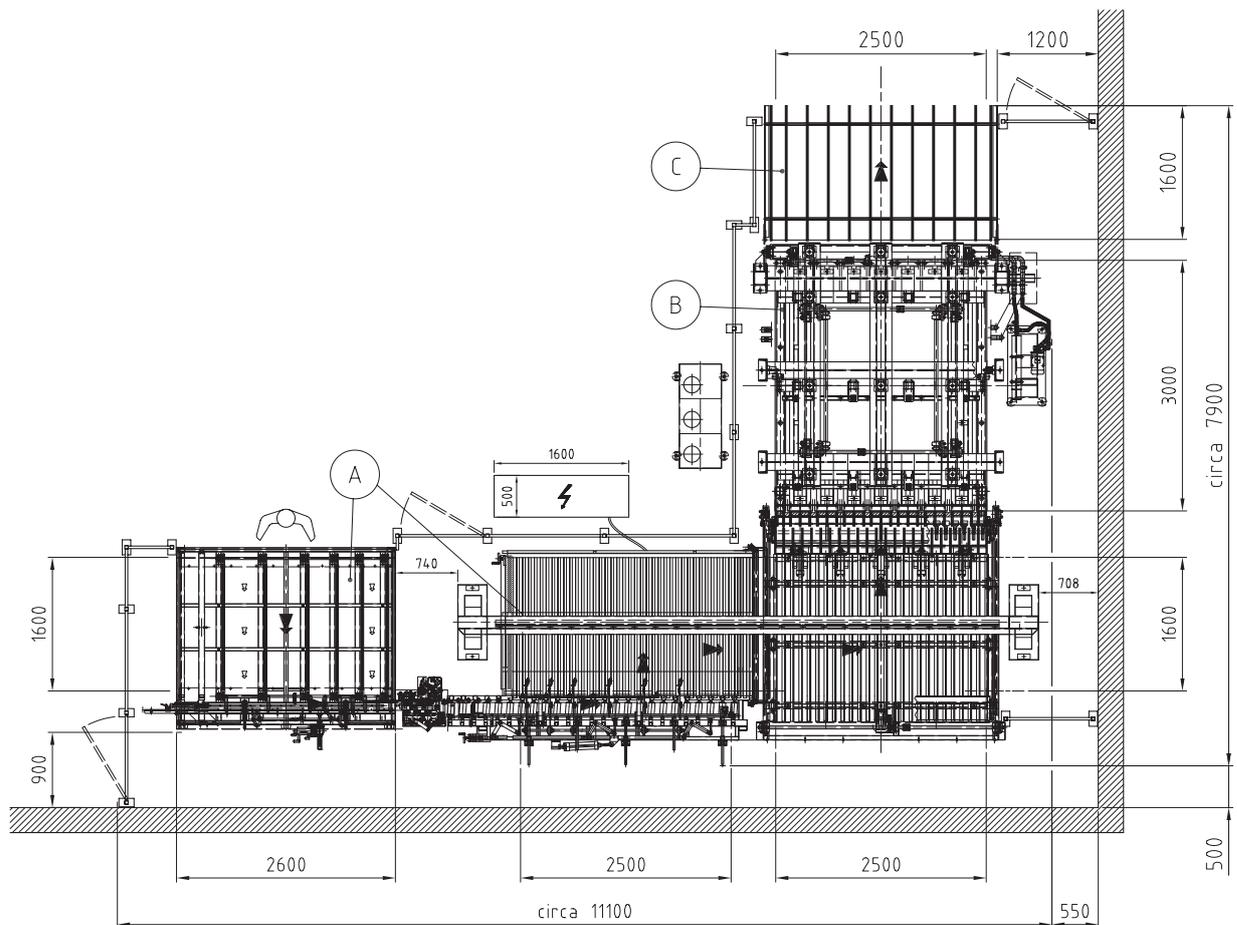
Model	Platens dimensions (mm)	Vertical thrust (ton)	Lateral thrust (ton)	Presser (ton)
gsl-a 25-13	2500x1300	38,4	7,5	30
gsl-a 30-13	3000x1300	57,6	9	30
gsl-a 35-13	3500x1300	57,6	10,5	30

Max. recommended working thickness: 80mm

Model	Platens dimensions (mm)	Vertical thrust (ton)	Lateral thrust (ton)	Presser (ton)
gsl-a 25-13	2500x1300	38,4	20	30
gsl-a 30-13	3000x1300	80	24	30
gsl-a 35-13	3500x1300	80	28	30

# AVAILABLE VERSION

*Version for high productivity up to 1100 m<sup>2</sup> per day, thanks to the press cycle time reduction and the increase of panels composition speed.*





# TECHNICAL FEATURES OVERVIEW

TECHNOLOGICAL ADVANTAGES

## Top productivity

Automatic production of large sized panels and production cycle optimisation.

Different systems of automatic composition with horizontal or vertical glue spreader according to customers' needs.

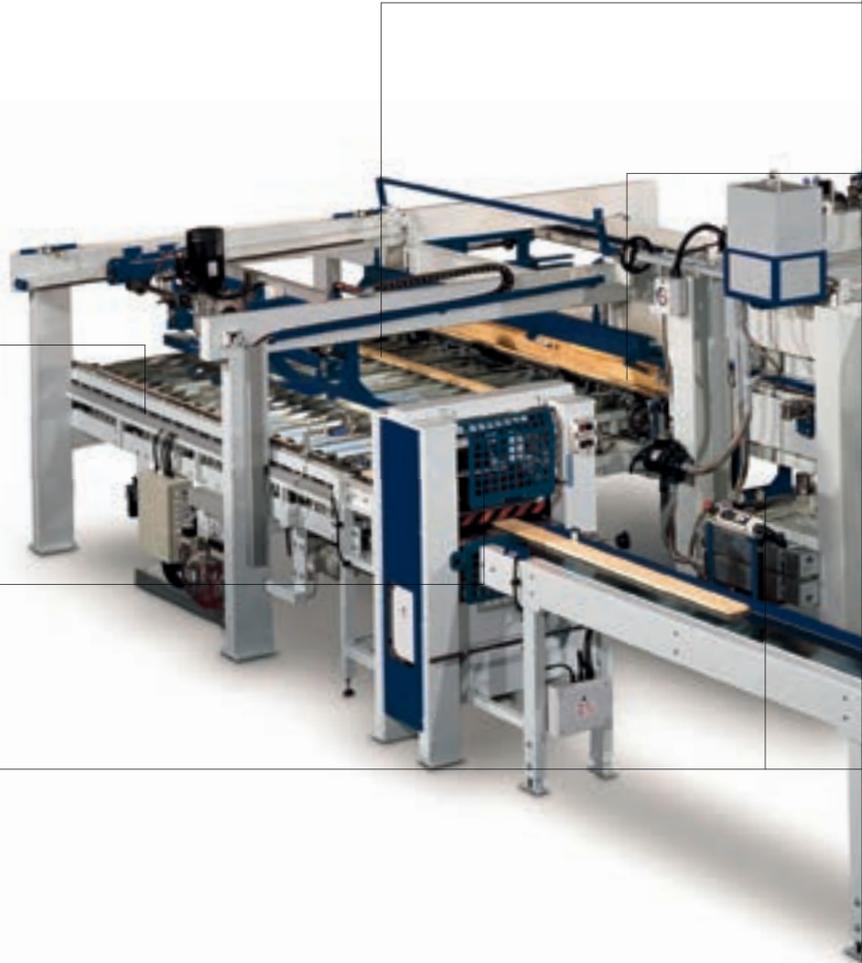
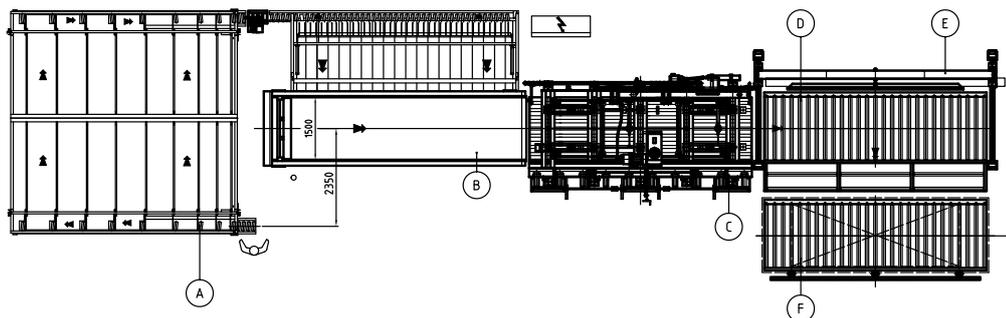
Rollers pneumatic lifting to allow the passage of the piece without spreading glue according to the spreading programme set.

Vertical thrust of press platens guarantees a perfect flatness of the finished product.

Water, diathermal oil or high frequency heating systems, according to the required productivity.

IT IS AVAILABLE WITH DIFFERENT LENGHTS UP TO 20 METERS

Automatic line solutions and presses configuration for panels and edge glued beams production.



# sergiani range

press for edge glued beam and lamellar panels  
production with automatic loading/unloading



Combs are inserted perpendicularly between belts. They move beams, by turning them 90° on the composition table.

Lamellar holding device on the loading table, it is realized with tilting device mounted on the countershaft.

Lateral thrust unit, sized according to the maximum working thickness version chosen. It allows the best pressure distribution and gluing quality.

Different unloading solutions according to customers' requirements.

Panel counter stop and detachment systems mounted on the opposite side of the lateral thrust unit.

Three versions for machining panels with faces of maximum recommended dimensions: 40 mm – 80 mm – 150 mm

## TECHNICAL DATA

Max. recommended working thickness: 40 mm

Model	Platens dimensions (mm)	Vertical thrust (ton)	Lateral thrust (ton)	Cylinders stroke (mm)
gsl-kl 25-13	2500x1300	50	7,5	200
gsl-kl 30-13	3000x1300	60	9	200
gsl-kl 35-13	3500x1300	70	10,5	200
gsl-kl 45-13	4500x1300	90	13,5	200
gsl-kl 53-13	5300x1300	110	15	200

## Max. recommended working thickness: 80 mm

gsl-kl 25-13	2500x1300	50	20	200
gsl-kl 30-13	3000x1300	60	24	200
gsl-kl 35-13	3500x1300	70	28	200
gsl-kl 45-13	4500x1300	90	36	200
gsl-kl 53-13	5300x1300	110	40	200

## TECHNICAL DATA

Max. recommended working thickness: 150 mm

Model	Platens dimensions (mm)	Vertical thrust (ton)	Lateral thrust (ton)	Cylinders stroke (mm)
gsl-kl 25-13	2500x1300	50	38	200
gsl-kl 30-13	3000x1300	60	46	200
gsl-kl 35-13	3500x1300	70	54	200
gsl-kl 45-13	4500x1300	90	69	200
gsl-kl 53-13	5300x1300	110	77	200

# TECHNICAL FEATURES OVERVIEW

TECHNOLOGICAL ADVANTAGES

**Affordable and flexible solution** to produce lamellar beams.

**4 versions** for beam width : 125 mm - 125 mm - 150 mm - 200 mm - 250 mm

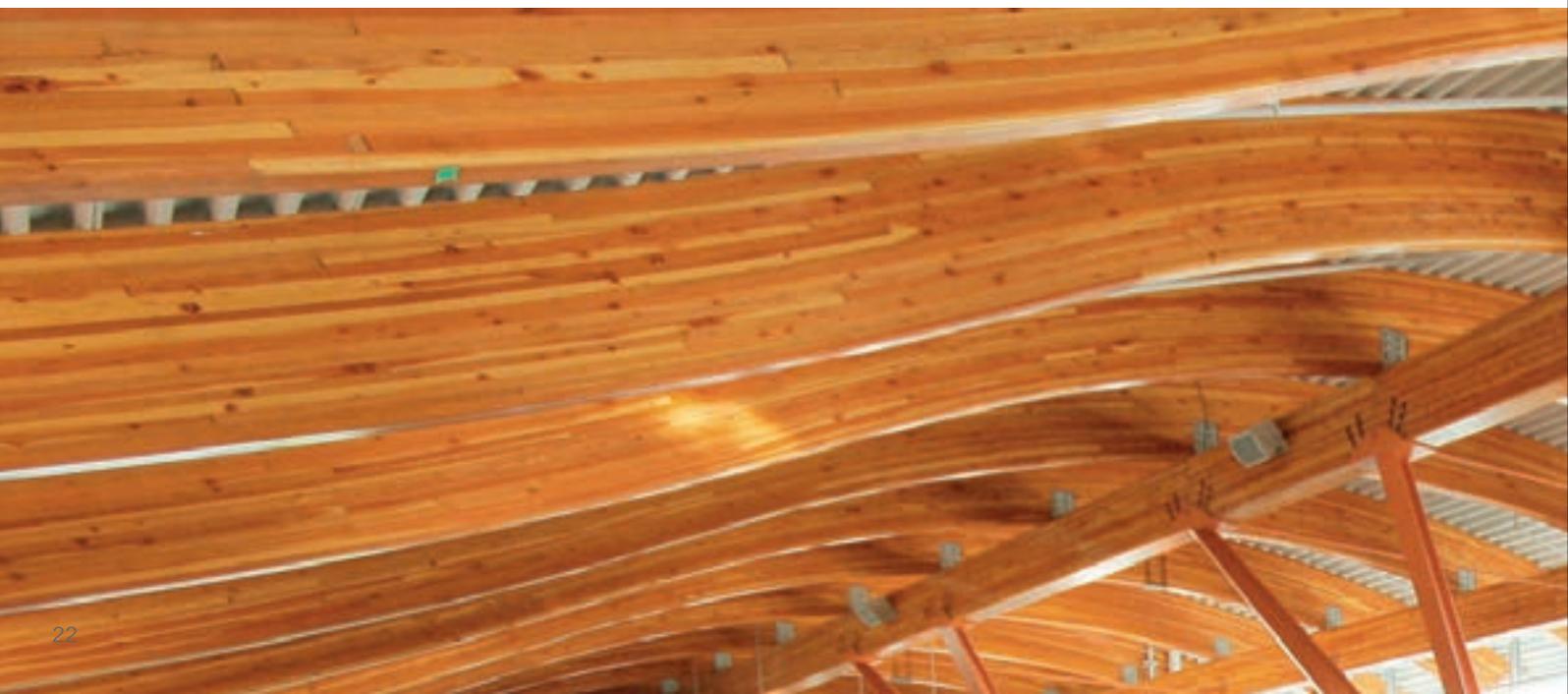
Lengths from 3000 mm to multiples of 3000 mm

Vertical hydraulic cylinders stroke of 90 mm for stv and stv ra versions. 200 mm or 500 mm for stv hp version.

## Quality of the structure

The quality of the pressed product is ensured thanks to the sturdy structure, the optimized pressure distribution (2 cylinders each meter) and blocking beams.

**sergiani stv hp version:** beams' supporting base is CNC machined after the beams have been assembled and welded together by means of precision jigs, in order to guarantee the utmost quality of the pressed product.



# sergiani range

frame press for lamellar panels with manual loading/unloading

*Thrust cylinders partialization according to the length of the beam to press.*



*sergiani stv ra: available version with vertical thrust cylinders adjustable in height.*

*Mobile horizontal pushers for the alignment of the boards and the pressed beam.*



# SERGIANI STV

TECHNICAL DATA					
Model	Platens dimensions (mm)	Vertical thrust (ton)	N° of Vertical thrust cylinders (mm)	N° of front blocking beams	Cylinders stroke (mm)
<b>Max. recommended working thickness: 125 mm with vertical thrust cylinders adjustable in height</b>					
stv ra 30-13-125	3000x1300	24	6 - 50	4	90
stv ra 40-13-125	4000x1300	32	8 - 50	4	90
stv ra 60-13-125	6000x1300	48	12 - 50	6	90
<b>Max. recommended working thickness: 250 mm with vertical thrust cylinders adjustable in height</b>					
stv ra 30-13-250	3000x1300	48	12 - 50	4	90
stv ra 40-13-250	4000x1300	64	16 - 50	4	90
stv ra 60-13-250	6000x1300	96	24 - 50	6	90

TECHNICAL DATA					
Model	Platens dimensions (mm)	Vertical thrust (ton)	N° of Vertical thrust cylinders (mm)	N° of front blocking beams	Cylinders stroke (mm)
<b>Max. recommended working thickness: 150 mm</b>					
stv 40-13-150	4000x1300	32	8 - 50	4	90
stv 60-13-150	6000x1300	48	12 - 50	6	90
stv 80-13-150	8000x1300	72	18 - 50	8	90
stv 120-13-150	12000x1300	112	28 - 50	12	90
<b>Max. recommended working thickness: 200 mm</b>					
stv 60-13-200	6000x1300	56	14 - 50	6	90
stv 80-13-200	8000x1300	72	18 - 50	8	90
stv 90-13-200	9000x1300	84	21 - 50	10	90
stv 120-13-200	12000x1300	112	28 - 50	12	90
stv 140-13-200	14000x1300	128	32 - 50	16	90
<b>Max. recommended working thickness: 250 mm</b>					
stv 60-13-200	6000x1300	112	28 - 50	6	90
stv 80-13-200	8000x1300	128	32 - 50	8	90
stv 90-13-200	9000x1300	160	40 - 50	10	90
stv 120-13-200	12000x1300	224	56 - 50	12	90
stv 140-13-200	14000x1300	256	64 - 50	16	90

TECHNICAL DATA					
Model	Platens dimensions (mm)	Vertical thrust (ton)	N° of Vertical thrust cylinders (mm)	N° of front blocking beams	Cylinders stroke (mm)
<b>Max. recommended working thickness: 150 mm</b>					
stv hp 30-10-150	3000x1000	25	6 - 65	3	200
stv hp 30-15-150	3000x1500	25	6 - 65	3	500
stv hp 45-10-150	4500x1000	40	10 - 65	5	200
stv hp 45-15-150	4500x1500	40	10 - 65	5	500
stv hp 60-10-150	6000x1000	50	12 - 65	6	200
stv hp 60-15-150	6000x1500	50	12 - 65	6	500
stv hp 90-10-150	9000x1000	80	20 - 65	10	200
stv hp 90-15-150	9000x1500	80	20 - 65	10	500
<b>Max. recommended working thickness: 220 mm</b>					
stv hp 30-10-220	3000x1000	45	6 - 90	3	200
stv hp 30-15-220	3000x1500	45	6 - 90	3	500
stv hp 45-10-220	4500x1000	75	10 - 90	5	200
stv hp 45-15-220	4500x1500	75	10 - 90	5	500
stv hp 60-10-220	6000x1000	90	12 - 90	6	200
stv hp 60-15-220	6000x1500	90	12 - 90	6	500
stv hp 90-10-220	9000x1000	150	20 - 90	10	200
stv hp 90-15-220	9000x1500	150	20 - 90	10	500



# TECHNICAL FEATURES OVERVIEW

TECHNOLOGICAL ADVANTAGES

*Press for cold bending both for solid wood and multi-layer panels.*



*Double rack and pinion system connected by a torsion bar to grant a planar movement of the movable press platen.*

## **Structure quality**

*The sturdy structure has been engineered with a high safety coefficient to guarantee the highest level of resistance and rigidity in each processing phase.*



*Hydraulic cylinders  
The steel rod is chromed with a thick layer and rectified, all gaskets are high resistance to guarantee long lifetime and perfect seal.*

**RAPID AND SIMPLE MOULD LOCKING/UNLOCKING.**





### Flexible

Possibility to add a lateral piston with articulated head and adjustable in height in order to press even shapes with curves.

Possibility to choose a **COLD** or **HIGH FREQUENCY** version for greater productivity.



**Hydraulic unit, the hearth of the press**  
It is featured with first-quality parts to grant high efficiency and reliability over time. Double pump dipped in oil with automatic switch, to pass from high capacity and low pressure pump, to the second low capacity and high pressure pump. This system allows to use small engines and thus lower energy consumption.

Available with upper or bottom mobile platen according to the loading height requested by the customer.

## TECHNICAL DATA

Model	Platens dimensions (mm)	Thrust (ton)	N° of cylinders – diameter (mm)	Stroke/ Daylight opening (mm)	Specific pressure (kg/cm <sup>2</sup> )
gs-c 2/30	1000x400	30	2 - 70	400/800	5
gs-c 2/30	1000x700	30	2 - 70	400/800	4,5
gs-c 2/40	1500x700	40	2 - 85	450/800	4,5
gs-c 3/60	1800x700	60	3 - 85	450/800	4,5
gs-c 4/80	2000x1000	80	4 - 85	450/800	4
gs-c 6/120	2500x1200	120	6 - 85	450/800	4
gs-c 6/120	3000x1200	120	6 - 85	450/800	3

# TECHNICAL FEATURES OVERVIEW

TECHNOLOGICAL ADVANTAGES

*Presses for panels shaping.*

*Structure made of thick steel sheets, laser cut and CNC machined, to guarantee mechanical resistance to high pressure when processing.*



*Available in different versions, with specific pressure from 35 up to 90 kg/cm<sup>2</sup>.*

# sergiani range

embossing press with manual panels loading/unloading



**PRODUCTIVITY:** up to 3 intermediate platens to increase it.

**Flexible** thanks to our software that controls all machine's parameters such as: working pressure, pressing time, number of pressing, degassing cycle, platens opening, programming the engraving depth and save all working parameters.

**Solid steel platens** heated with diathermal oil up to 250°C, they are equipped with holes for quick fastening of moulds.

Available with upper or bottom mobile platen.

TECHNICAL DATA					
Model	Platens dimensions (mm)	Thrust (ton)	N° of cylinders – diameter (mm)	Stroke/ Daylight opening (mm)	Specific pressure (kg/cm <sup>2</sup> )
mvs 2/100	600x350	100	2 - 140	250/250	50
mvs 4/200	900x500	200	4 - 140	250/250	55
mvs 6/300	1200x500	300	6 - 140	350/350	60
mvs 6/300	1400x500	300	6 - 140	350/350	50
mvs 6/300	1600x500	300	6 - 140	350/350	45
mvs 6/300	1800x600	300	6 - 140	350/350	35
mvs 4/600	1900x600	600	4 - 240	400/400	55
mvs 3/400	2200x600	400	3 - 240	400/400	40
mvs 5/1000	2500x600	1000	5 - 580	400/400	65
mvs 10/2000	2200x1100	2000	10 - 280	400/400	90

# TECHNICAL FEATURES OVERVIEW

## TECHNOLOGICAL ADVANTAGES

*sergiani vb range is addressed for coating and hot gluing shaped parts with veneer or PVC.*

*Ease of use and complete with all necessary devices to control and adjust the different working phases.*

*They are composed by:*

- *High-performance vacuum pump;*
- *Vacuum distribution is ensured by a grid of ducts that connects the points of application of the vacuum to the chamber platen;*
- *The heated chamber is insulated with rock wool for better thermal insulation.*

### *sergiani vb*



TECHNICAL DATA			
Model	Composition table dimensions (mm)	Maximum working height (mm)	Power (kW)
vb 29-14	2700x1200	120	21

*Designed for coating 3D shaped parts with PVC.*

*When using hook/unhook membrane kit, it is possible to cover shaped parts with veneer and to glue multilayer sheets.*

- *It is available a membrane kit to veneer or to glue multilayer panels;*
- *Electric resistances positioned in the upper daylight and distributed in order to guarantee a better uniformity of the temperature.*
- *Chamber closing system with fast manual locking of the chamber.*

### *sergiani vb-m*



TECHNICAL DATA			
Model	Composition table dimensions (mm)	Maximum working height (mm)	Power (kW)
vb-m 30-13	3000x1300	500	8,5
vb-m 35-13	3500x1300	500	10
vb-m 40-13	4000x1300	500	19
vb-m 40-16	4000x1600	500	19

*Designed for coating 3D shaped parts with veneer and gluing plywood/mdf multilayer sheets. It is equipped with fixed working table, intermediate flange where it is installed the membrane and the electric resistances to accelerate the glue catalization process.*

- *Electrical resistances for membrane heating placed on the upper platen.*
- *The special compound of the membrane guarantees high elongation and superior resistance to heat.*

# ies

## sergiani range

vacuum box presses for shaped panels laminating with PVC

### sergiani vb double



TECHNICAL DATA			
Model	Composition table dimensions (mm)	Maximum working height (mm)	Power (kW)
vb-double 30-13	3000x1300	500	22,5
vb-double 30-20	3000x2000	500	29,5
vb-double 35-13	3500x1300	500	22,5
vb-double 35-20	3500x2000	500	33,5
vb-double 40-13	4000x1300	500	22,5
vb-double 40-16	4000x1600	500	22,5

Double vacuum box press, with membrane, for laminating or gluing 3D panels through heating and vacuum application.

- Central rotating working table: the operator loads the upper side of the box, the vacuum is applied and the unit rotates 180° in the heating area, where the glue catalization process takes place. The double version is equipped with a second loading daylight that allows preparing the next load to improve productivity, in masked time.

### sergiani vb-c



TECHNICAL DATA				
Model	Composition table dimensions (mm)	Maximum workpiece height (mm)	Power (kW)	Maximum working temperature
vb-c 10-10	1000x1000	100/500	7	200°C
vb-c 15-13	1500x1300	100/500	7	200°C
vb-c 30-13	3000x1300	100/500	20	200°C
vb-c 35-13	3500x1300	100/500	20	200°C
vb-c 40-13	4000x1300	100/500	20	200°C
vb-c 30-15	3000x1500	100/500	22	200°C
vb-c 35-15	3500x1500	100/500	22	200°C
vb-c 40-15	4000x1500	100/500	22	200°C

Vacuum box for "Solid surface" applications with heating oven and membrane shaping press mounted above the oven.

- Heating power is 18 kW while alternative heating solutions use ovens with electric platens that use twice the power.
- Two machines in one, heating oven and vacuum box for a simple and ergonomic working cycle.
- Reduction of occupied space.
- Plate support table: the inside of the tray is made of a steel grid placed between two recirculating air collectors that guarantee perfect temperature distribution.
- Baghouse membrane for maximum working heights of the pieces produced: 500 mm standard version and 900 mm optional version.

# TECHNICAL FEATURES OVERVIEW

## TECHNOLOGICAL ADVANTAGES

### *It is composed by:*

- Vacuum from the bottom platen and pressure from the superior one to coat 3d panels;
- Working cycle with or without membrane;
- Upper platen of the working cell in solid drilled steel heated with diathermal oil for perfect temperature distribution.
- High definition even with panels with the most complex shapes (positive pressure 5kg/cm<sup>2</sup> + vacuum 1kg/cm<sup>2</sup>).



*PVC rolls storage with manual or pneumatic cut (optional).*



*The bottom mobile platen is milled to realize all the circuits that allow creating vacuum.*



*Hook/unhook membrane kit, rapid changeover from one work cycle to the next one.*

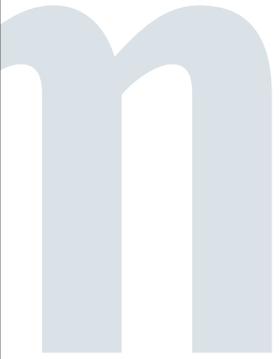


*Hydraulic cylinders  
The steel rod is chromed with a thick layer and rectified, all gaskets are high resistance to guarantee long lifetime and perfect seal.*

### *Possibility to select the following optional:*

- Intermediate flange for greater result even with delicate materials and complex shapes of 3D panels
- Increased pressing chamber up to 160 mm to machine bending panels
- Trays motorization
- Second loading/unloading unit from the same or the opposite side
- PVC shredder
- Anti-static brush



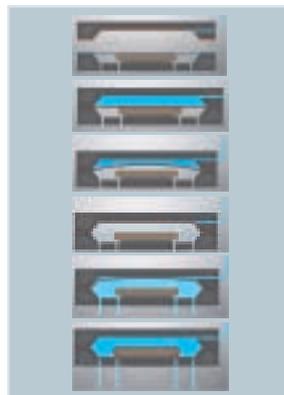


*Pressurised air storage tank to ensure an immediate and constant pressing cycle.*

**Structure quality**  
*Sturdy structure made of welded and normalised steel beams. The constructive design guarantees the highest level of resistance and rigidity in each pressing phase.*



*Double rack and pinion system connected by a torsion bar to grant a flat movement of the press platen.*



**Combined cycle:**  
*pressure from the upper platen and vacuum from the bottom platen.*



*Device to keep PVC sheet in tension.*

*Manual unit for tray loading/unloading.*

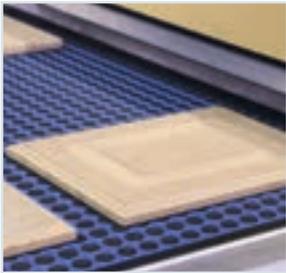


**Electronic control of each phase of the pressing cycle,** with standard or customized program according to the specific requirements of the customer.

TECHNICAL DATA					
Model	Composition table dimensions (mm)	Thrust (ton)	N° of cylinders – diameter (mm)	Working cell height (mm)	Specific pressure (kg/cm <sup>2</sup> )
3d form 25-14	2340x1340	200	4x140	60	5+1
3d form 30-14	2840x1340	300	6x140	60	5+1

# TECHNICAL FEATURES OVERVIEW

## TECHNOLOGICAL ADVANTAGES



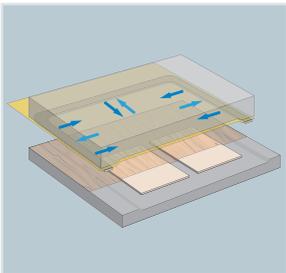
*Loading trays are drilled in length and width in order to realize a grid where the square-headed Pin of 28 mm side are inserted, covering the entire working surface. They are automatically activated to form the counter-shape of 14mm in height depending on the position of the panel to be pressed.*

### **Automatic PIN SYSTEM**

*It avoids the use of counter-shapes. Loading unit with automatic PVC positioner, equipped with a system that scans panels position and, consequently, setting the PIN SYSTEM in the press by a digital optical system with 28 mm pitch.*

*PVC ROLLS STORAGE FROM 2 TO 15 STATIONS.*

*Electronic control of each phase of the pressing cycle, with standard or customized program according to customer specific requirements.*



### **Intermediate flange: high definition even with complex shapes**

*Possibility to work with or without membrane. In case of membrane cycle, the "intermediate flange" device allows creating vacuum between membrane and PVC, reducing the risk of wrinkles. Furthermore, it permits to execute a second pressing cycle through a cold air blast that acts directly on the PVC and separates the membrane from 3d elements.*

*Heat exchanger for pressurised air heating, powered by electricity to improve gluing quality.*

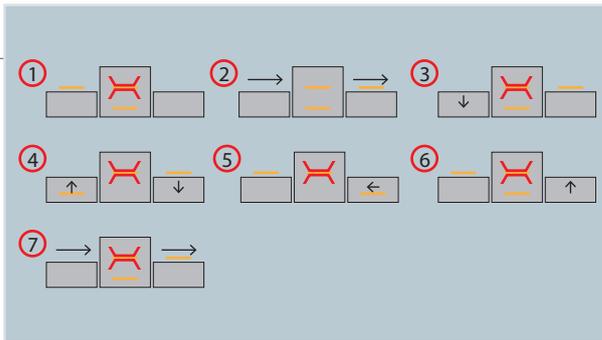


*Vacuum and pressurised air storage tank to ensure an immediate and constant pressing delivery of the working chamber and a faster working cycle.*

# m h p

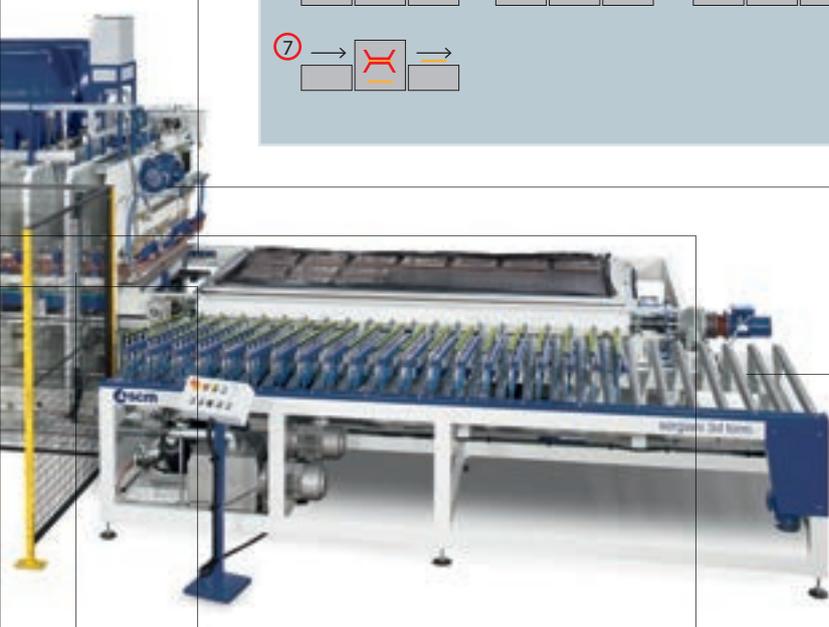
## sergiani range

hydraulic hot presses for 3d panels laminating



### Up to 3 trays to increase productivity.

While tray n° 2 is inside the press daylight, tray n° 1 is in the loading area. The third tray, once unloaded, stays underneath the press body waiting for the loading area to be released to start a new production cycle.



Upper platen of the working chamber in solid drilled steel heated with diathermal oil for perfect temperature distribution.

Automatic tilting device with suction cups for unloading panels just pressed on the powered roller conveyor, ready to be sent to the next trimming station. (optional)

Structure made of thick steel sheets to guarantee mechanical resistance to high pressure when processing.

Platens are milled to realize circuits that allow creating vacuum.

Trays movement inside the press is fully automatic and synchronized with loading and unloading units placed on the two narrow sides.

### TECHNICAL DATA

Model	Platens dimensions (mm)	Thrust (ton)	N° of cylinders – diameter (mm)	Working cell height (mm)	Specific pressure (kg/cm <sup>2</sup> )
3d form hp 25-14	2340x1340	200	4x140	60	5+1
3d form hp 30-14	2840x1340	300	6x140	60	5+1
3d form hp 33-14	3200x1340	400	8x140	60	6+1
3d form hp 33-14	3200x1340	500	9x140	60	8+1

# TECHNICAL FEATURES OVERVIEW

## TECHNOLOGICAL ADVANTAGES

### **Wide range of versions**

Loading of panels on the narrow or on the long side of the platen, depending on the production process and line configuration required.

**MODULAR construction system** allows a press flexible configuration, according to the type of product, process and production levels demanded.

Each module is composed by a sturdy structure with pairs of pantographed steel sheets ribs cut from billet.



**Mylar belt ionizing unit** to repel dirt particles present in the environment. (optional)

**Brushing units** of the internal and external face of the mylar belt to grant its cleaning and wastes reduction. (optional)

### **Optional on demand:**

- Blowers placed on the bottom platen to ease mylar detachment from the bottom platen, they allow a fast working cycle, longer life of the mylar and reduce maintenance interventions.
- Panels' detecting position by means of scanner to control electronic pressure or to exclude each single cylinder.



### **Top Mylar belt shakers.**

Mylar sheet protects the upper platen while shakers facilitate the panel detachment that may remain glued to the upper Mylar belt. (optional)



### **Presses suitable for a wide range of products:**

- High specific pressure: from 5 Kg/cm<sup>2</sup> up to 15 kg/cm<sup>2</sup>;
- Electronic control of all devices installed on the machine

# sergiani range

automatic one daylight press with hot platens and electronic control



*Upper mobile platen guided by a rack and pinion system. Possibility to add electronic control of platen parallelism control. (optional)*



- **Solid steel platens** with high thickness, drilled and CNC machined. Drills are specially dimensioned to grant perfect temperature uniformity on the platen surface.
- **High finishing platen surface degree** to obtain the highest panel surface, even with HIGH GLOS laminates.
- **Steel plates** placed between thrust cylinders and platen to ensure better pressure distribution and the quality of the pressed product. Finally, between each plate and the platen there is an isolating material to prevent heating of press structure. Guaranteed performance with heavy working cycle and multiple application press shifts.



*Auxiliary cylinders to control platens opening, they allow a constant and fast cycle.*



*Cylinders with exclusive design for maximum reliability over time.*

# SERGIANI MVC

TECHNICAL DATA				
Model	Platens dimensions (mm)	N° of cylinders – diameter (mm)	Total thrust (ton)	Specific pressure (kg/cm <sup>2</sup> )
mvc 8/210 35-14	3500x1400	8 - 100	210	5
mvc 10/270 35-14		10 - 100	270	7
mvc 8/430 35-14		8 - 140	430	11
mvc 10/540 35-14		10 - 140	540	14
mvc 8/210 35-16	3500x1600	8 - 100	210	5
mvc 10/270 35-16		10 - 100	270	6
mvc 8/430 35-16		8 - 140	430	10
mvc 10/540 35-16		10 - 140	540	12
mvc 12/330 35-19	3500x1900	12 - 100	330	6
mvc 15/400 35-19		15 - 100	400	7,5
mvc 12/650 35-19		12 - 140	650	12
mvc 15/810 35-19		15 - 140	810	15
mvc 12/330 35-22	3500x2200	12 - 100	330	5,5
mvc 15/400 35-22		15 - 100	400	6,5
mvc 12/650 35-22		12 - 140	650	10
mvc 15/810 35-22		15 - 140	810	13
mvc 10/270 44-14	4400x1400	10 - 100	270	5,5
mvc 12/330 44-14		12 - 100	330	7
mvc 10/540 44-14		10 - 140	540	11
mvc 12/650 44-14		12 - 140	650	13
mvc 10/270 44-16	4400x1600	10 - 100	270	5
mvc 12/330 44-16		12 - 100	330	6
mvc 10/540 44-16		10 - 140	540	10
mvc 12/650 44-16		12 - 140	650	12
mvc 12/330 44-19	4400x1900	12 - 100	330	5
mvc 15/400 44-19		15 - 100	400	6
mvc 12/650 44-19		12 - 140	650	10
mvc 15/810 44-19		15 - 140	810	12
mvc 15/400 44-22	4400x2200	15 - 100	400	5
mvc 18/480 44-22		18 - 100	480	6
mvc 15/810 44-22		15 - 140	810	10
mvc 18/980 44-22		18 - 140	980	13

TECHNICAL DATA				
Model	Platens dimensions (mm)	N° of cylinders – diameter (mm)	Total thrust (ton)	Specific pressure (kg/cm <sup>2</sup> )
mvc 12/330 53-14	5300x1400	12 - 100	330	5,5
mvc 8/430 53-14		8 - 140	430	7
mvc 10/540 53-14		10 - 140	540	9
mvc 12/650 53-14		12 - 140	650	11
mvc 12/330 53-16	5300x1600	12 - 100	330	5
mvc 8/430 53-16		8 - 140	430	6,5
mvc 12/650 53-16		12 - 140	650	10
mvc 14/760 53-16		14 - 140	760	11
mvc 15/400 53-19	5300x1900	15 - 100	400	5
mvc 12/650 53-19		12 - 140	650	8
mvc 15/810 53-19		15 - 140	810	10
mvc 18/980 53-19		18 - 140	980	12
mvc 18/490 53-22	5300x2200	18 - 100	490	5
mvc 12/650 53-22		12 - 140	650	7
mvc 18/980 53-22		18 - 140	980	10,5
mvc 21/1140 53-22		21 - 140	1140	12
mvc 14/380 65-14	6500x1400	14 - 100	380	5
mvc 18/490 65-14		18 - 100	490	7
mvc 14/760 65-14		14 - 140	760	10,5
mvc 16/870 65-14		16 - 140	870	12
mvc 14/380 65-16	6500x1600	14 - 100	380	4,5
mvc 18/490 65-16		18 - 100	490	6
mvc 14/760 65-16		14 - 140	760	9
mvc 18/980 65-16		18 - 140	980	12
mvc 18/490 65-19	6500x1900	18 - 100	490	5
mvc 12/650 65-19		12 - 140	650	6,5
mvc 18/980 65-19		18 - 140	980	10
mvc 21/1140 65-19		21 - 140	1140	11
mvc 18/490 65-22	6500x2200	18 - 100	490	4,5
mvc 15/810 65-22		15 - 140	810	7
mvc 18/980 65-22		18 - 140	980	9
mvc 24/1300 65-22		24 - 140	1300	11

# TECHNICAL FEATURES OVERVIEW

## TECHNOLOGICAL ADVANTAGES

### **High speed for top productivity.**

Up to a door each 20 seconds pressing one door per daylight, to improve gluing quality and product surface quality.

**External carters** designed to soundproof the unit and exhaust glue vapours, fit with large portholes and inner lighting to visually control press operation without opening the casing.

**Electronic flatness control of platens unit and machine cycle.** It allows to protect the press components and eliminates the maintenance of levelling unit compared to other systems based on mechanical hooks.

**Reduction of occupied space** as regards the single-daylight or simultaneous loading multidaylight presses with equal platen working surface.



**Platens with high thermal efficiency**  
A SCM exclusive to press at low temperature with higher productivity as regards the drilled solid platens keeping the mechanic, static – dynamic high resistance.



**Through-feed press with electronic control, from 5 up to 10 daylight**

*It is possible to use BI-component glues with water base: ureic (UF) and vinylic (PVAc) with highly reduced pressure times, no risk of precatalization of the glue since the panel is immediately loaded after composition. This is possible thanks to SCM special system that allows single daylight loading-unloading while maintaining constant the pressure set in the other daylight.*

*SCM sergiani las can also use Hot melt polyurethane or bi-component glues, due to the reduced waiting time.*

**Loading belt conveyer**

*It simultaneously carries out the loading of the panel to be pressed, the cleaning of the platens and the expulsion of the pressed panel. The belt conveyor is equipped with speed control by inverter and automatic lengthways panel centering on the press platen.*

TECHNICAL DATA			
Model	Platens dimensions (mm)	N° of daylight	Total thrust (ton)
las s	2500x1300	5	120
las s	2500x1300	6	120
las s	2500x1300	10	120
las s	2800x1400	5	140
las s	2800x1400	6	140
las s	2800x1400	10	140
las p	2500x1300	5	200
las p	2500x1300	6	200
las p	2500x1300	10	200
las p	2800x1300	5	200
las p	2800x1300	6	200
las p	2800x1300	10	200
las 3	3350x1400	5	175
las 3	3350x1400	7	175



**WE HAVE THE POWER  
WHEN IT COMES TO PRESSING**

# THE STRONGEST WOOD TECHNOLOGIES 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

**20.000** machines manufactured per year

**90%** export

**20** foreign branches

**400** 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 equipment and components for machining the widest range of materials.

## SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL MACHINES AND COMPONENTS

### INDUSTRIAL MACHINERY

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



WOODWORKING TECHNOLOGIES



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

### INDUSTRIAL COMPONENTS

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



SPINDLES AND  
TECHNOLOGICAL  
COMPONENTS



ELECTRIC PANELS



METALWORK



CAST IRON



*is more*



**SCM GROUP SPA**

via Casale 450 - 47826 Villa Verucchio, Rimini - Italy  
tel. +39 0541 674111 - fax +39 0541 674274  
scm@scmgroup.com  
www.scmwood.com



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