

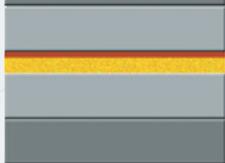
**Product range:**  
**Wood**

# **Joos-Throughfeed-Press**

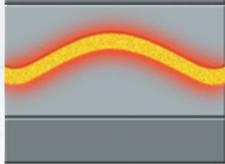
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## **Economic System 2000**

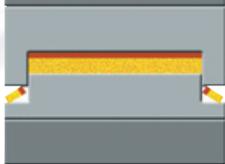
**PRESSEN**



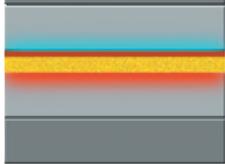
**FORMEN**



**STANZEN**



**TEMPERIEREN**



**Joos-Quality**  
**is the difference.**  
Details that matter.

PRESSEN + TECHNOLOGIE



GOTTFRIED JOOS MASCHINENFABRIK

# Efficient Veneering

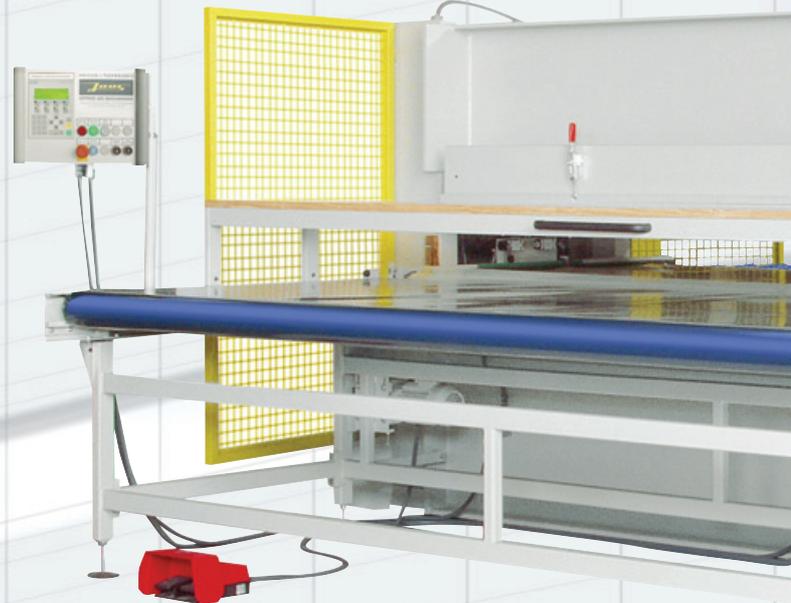
Joos has been constructing presses for the industry and trade for many years. The Joos-Throughfeed-Press DLP Economic System 2000 (Pat. Nr. 512 300) is the result of this experience.

Joos-Throughfeed-Presses have multiple applications and require little space. Because of the excellent price/performance ratio, the machine is ideally suitable for trade as well as for the industry.

## The fundamental advantages of the veneering technology are:

- a simultaneous loading and pressing of the veneer parts
- an increase of the quality
- an ergonomic arrangement of the operation elements and the working height
- a reduction of staff and energy costs
- a reduction of throughput times up to 60 %

**The Joos-Throughfeed-Press will pay for itself with veneering on only approx. two days a week. We would be pleased to calculate your individual evaluation of economic efficiency.**



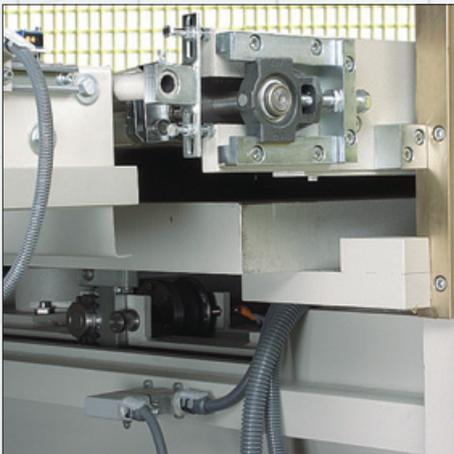
## Details that matter.

### Patented table construction

The pressing table consists of a solid steel plate (80 mm) and is dynamically mounted on the cylinders. During the closing process, the pressing table moves upwards and presses the cantilevered heating platen against the solid top part of the press.

The machine opens automatically on completion of the pressing process. Rotating press belts load and unload the press simultaneously.

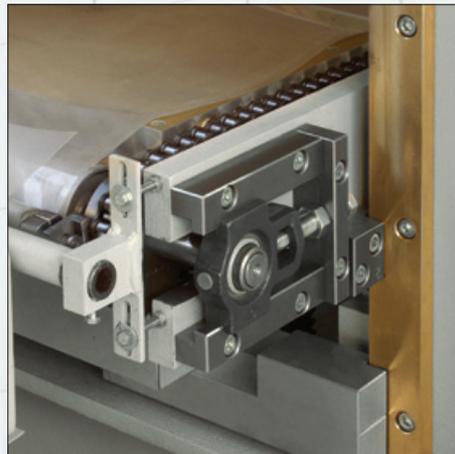
The patented table construction is the basis of the robust and favourable upstroke design.



### Short, rotating press belts

The special table construction makes it possible that the conveyor belts inside the press rotate around the lower heating platen and therefore are protected from soiling and damage. The belt length is identical to the dimension of the pressing surface. This results in the following advantages:

- simple belt change
- no excessive stretching
- short transfer distances between the loading belt and the conveyor belt
- no unnecessary reverses
- optimum synchronous running during the loading process



### Practical machine construction

High quality, economy and ease of operation have absolute priority for Joos.

So, for example, the modules are freely accessible in case of service. The highly efficient hydraulic unit is installed under the electric device and protected by a metal cover. The hydraulic pump with the electric motor is maintenance free installed into the oil tank.





## Optimized control

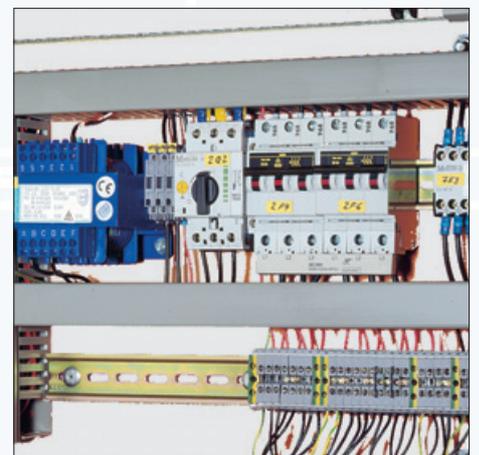
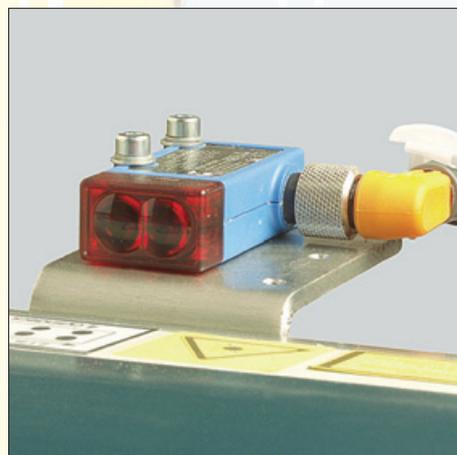
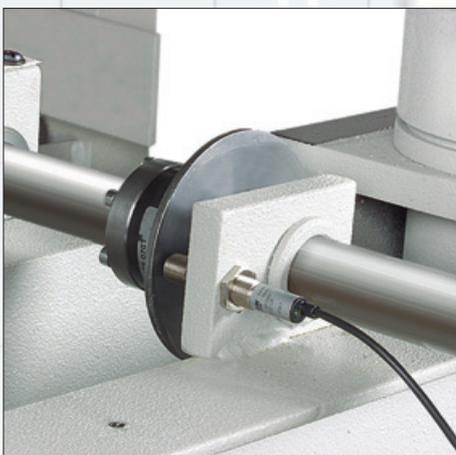
The ergonomic design and arrangement of the operating elements are only two of the remarkable features of the Joos-Throughfeed-Presses. One outstanding advantage is the simple access and clarity of the control elements. By means of the swivelling control device, that is mounted next to the loading table, you control and determine the complete process such as:

- set value input for pressure and pressing time
- automatic calculation of the pressure depending on the part dimensions
- recipe maintenance for repeating cycles
- display of fault indicators
- execution of setting functions



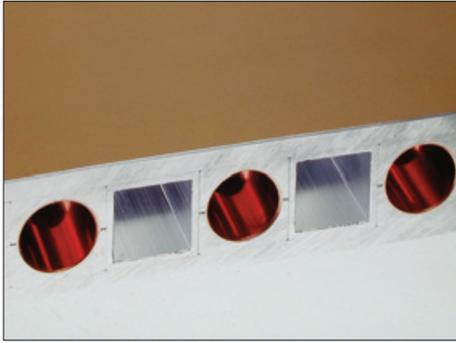
## Joos-A.B.S.-Safety-System

The patented A.B.S.-Safety-System is integrated into the Joos-Quality-Presses. Incorrectly loaded or forgotten parts are registered immediately by microsensors. On an automatic control command the press opens again. This Joos invention prevents the costly consequences of damage to the pressing table, the hydraulic and / or the heating platens. Due to this safety-system, the life and operating safety of the machine will be decisively increased.



# Heating systems with future

**An absolute reliable working heating system is the prerequisite for perfect veneering.  
Short pressing times demand a lot of the temperature control systems and the heating platens.**



## Ökotherm-Plus-heating platens

**Suitable for operating temperature of up to maximum 130°C.**

The combination of different NE-profile systems with special heat conductive systems results in an extremely light heating platen in layer construction. The small mass of this heating platen requires approx. 60 % less thermal energy to reach the same operating temperature as usual heating platens.

**Details:** Meandering heat conductive system made out of pressure resistant and corrosion resistant precision aluminium profiles which are coated with aluminium halfhells in thermal stable composite design. The surfaces of the cover plates are hard anodised and therefore extremely resistant against scratches.



## Steel heating platens

**Suitable for operating temperatures of up to maximum 180°C**

Solid drilled steel heating platens are especially suitable for high pressure and the heating with high-pressure steam or thermo-oil. The use of circulating heating mediums provides an even heat spreading in the steel heating platen.

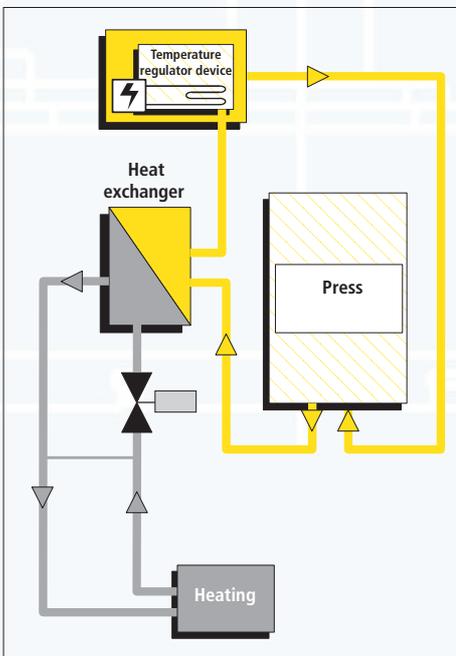
**Details:** Drilled steel heating platen made out of solid steel, machined on all sides, surfaces are broad cut finished or belt ground. The number and size of the holes depends on the required temperature.



## Temperature regulator devices

Depending on the requirements, different self-sufficient heating systems are available.

Temperature regulator devices with a closed, electrically heated water circulation are mainly used. The principle of the superposed pressure permits operating temperatures of up to maximum 130°C. Due to the good specific heat capacity of water and the high flow rate through the heating platens, an optimum heat distribution is reached, even with partial unfavourable loading of the pressing surface.



## Heating combination

Joos combines the thermal heating systems that exist in the customer's building. Therefore, the energy costs and investments will be decisively reduced.

Joos alternatively offers the following solutions:

1. exclusive heating by press internal temperature regulator devices.
2. exclusive heating by company's heating sources (steam, water, etc.)
3. combination with automatic reversing device.

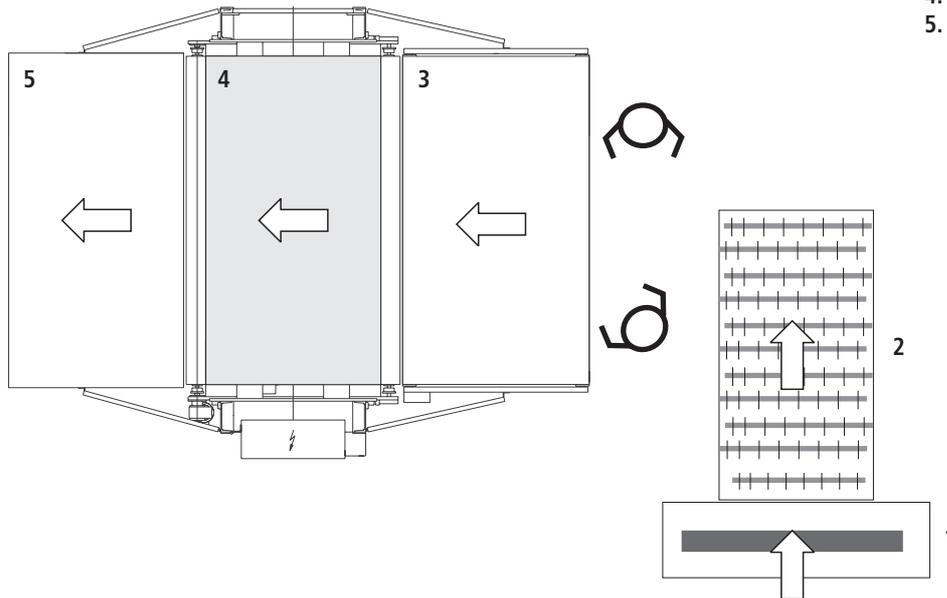
**We calculate the energy saving and the optimum heating systems for you.**

# Manufacture design

Only the optimum co-ordination of the manufacturing process between the design of the machine and the existing conditions guarantees an optimum of the productivity. The surface and the arrangement of the Throughfeed-Press is very important for this.

## Arrangement example A

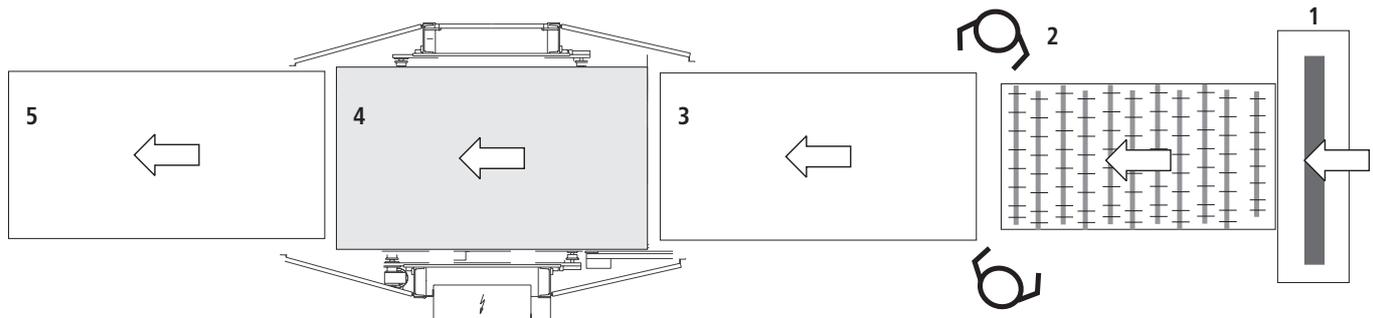
Joos-Throughfeed-Press with loading from the longitudinal side



1. Gluespreader
2. Cutter-Disc-Conveyor
3. Loading belt
4. Press
5. Discharge-Roller-Conveyor

## Arrangement example B

Joos-Throughfeed-Press with loading from the small side



## Periphery devices

Gluespreaders, Brushing machines, Cutter-Disc-Conveyors, etc. make the work not only easier but also improve the product quality simultaneously with the reduction of the cycle times.



Type		DLP 100	DLP 115	DLP 120	DLP 135
Pressing force	kN	1000	1150	1200	1350
Width pressing surface	mm	2550	3000	3150	3150
Length pressing surface	mm	1350	1350	1350	1600
Height pressing area	mm	200	200	200	200
Number of cylinders		4	6	6	6
Diameter of cylinders	mm	90	80	80	90
Specific pressure at full load	kg/cm <sup>2</sup>	2,9	2,8	2,8	2,7
Specific pressure at 80 % load	kg/cm <sup>2</sup>	3,6	3,5	3,5	3,3
Operating pressure	bar	310	310	325	300
Closing speed	sec.	6	7	7	7
<b>Heating platen:</b>					
Type		Öko-Therm	Öko-Therm	Öko-Therm	Öko-Therm
Thickness per platen	mm	37	37	37	37
Max. operating temperature	°C	130	130	130	130
<b>Temperature regulator device:</b>					
Type		Water temperature regulator device			
Power requirement	kW	2 x 12	2 x 18	2 x 18	2 x 18
Heating-up time	min	30	25	25	30
Total connected load	kW	31	45	45	47
Basic dimensions	length	4500	4500	4500	5250
	width	3510	4050	4400	4400
	height	1750	1830	1950	1950
Weight of the machine	kg	6600	7600	8500	9800

All values specified in this brochure are approximate. Subject to change and all rights reserved. **The values stated are for the basic design. Changes in view of the pressure, platen size, heating medium are possible according to customer's requirements.**

### Joos Nord

Technische Beratung  
Volkhausenstr. 1  
32105 Bad Salzufflen  
Fon +49 (0) 52 22/400 131  
Fax +49 (0) 52 22/400 132  
E-Mail Joosnord.ajr@t-online.de

- Pneumatic Presses
- Hydraulic Presses
- Throughfeed-Presses
- Moulding Presses
- Joos-Special-Presses
- J o o s - S e r v i c e
- Joos-Gluespreaders
- Handling devices

### Joos USA

Joos USA Inc.  
244 Cox Street  
Roselle, N.J. 07203  
Fon 001-908 620 3900  
Fax 001-908 620 3901  
E-Mail JoosUSA@aol.com  
www.Joosusa.com

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