Joos



Joos-Laboratory-Press

MADE IN GERMANY

Joos

The company Joos is one of the leading manufacturer for hydraulic presses and vacuum presses. We produce machines and plants for national and international customers, amongst others of the automobile and woodworking as well as aircraft industries.
Our product portfolio complies with the high requirements of the user relating to economy, ease of use, safety and reliability.

Joos-Laboratory-Press

Ideas can only be realized by running trials with new developments or initial batches. Joos-Laboratory-Presses are especially designed for this purpose. Its flexible modular construction offers the fast adaption for each task.

The Joos-Laboratory-Press is characterized by its solid construction and matured technique. We ensure a simple and safe operation as well as a durable product by using standardized components. Joos-Laboratoy-Presses are manufactured as serial machine as well as customized design.
Technical data and sizes for serial machines are given on the back side of this leaflet.



Data recording system

The pressing parameter are recorded in real time by means of the data recording system. The data can either be displayed on the screen or processes by means of the interfaces.

Control

The operation is effected by the clearly arranged operating panel and the operating elements that are positioned facing the operation side. The switch cabinet with the integrated SPS control is mounted on the right side of the press.

Light barrier

The safety device that works without being touched (light barrier) is installed at the operation side in order to stop dangerous movements when accessing the press unintentionally. In order to operate the press in automatic mode the light barrier is mandatory.

Prismatic guide

The guidance of the pressing table is effected by the fourfold solid prismatic guides which are positioned at the corners. The constructive execution ensures a free from float guidance of the table even with different temperatures.

Hydraulic aggregate

The maintenance-free hydraulic aggregate is space-saving installed under the switch cabinet. The design as under-oil unit in stand-by offers an optimum minimization of noise with high reliability and longevity.

Heating platens

The heating platens can either be designed as medium or electrical heating platens. The heat transfer medium is either water or oil. In order to cool down the pressed material in the press, cooling zones are installed underneath the heating platens. T-grooves for housing the tools or several daylight heating platens can be used as option.

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Application

Maximum flexibility when planning and manufacturing the machines ensures a wide range of application:

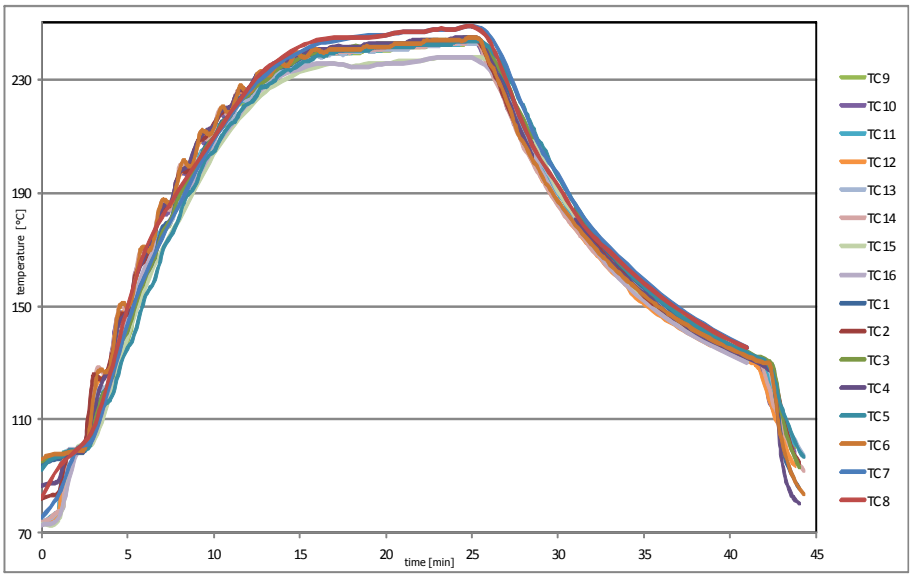
- development of new materials
- basic research
- research and sampling inspection
- realistic display of material reaction with different parameters
- quality control of the own production
- optimization and development of process parameters
- application in universities, institutes, research institutions and company laboratories
- use amongst others in the woodworking-, aerospace-, plastic- and rubber industry

Equipment

The Joos-Laboratory-Presses are flexible and have a state-of-art equipment:

- up to 450°C heating-cooling function
- high temperature accuracy
- precise pressure control
- pressure ramps or pressure levels
- venting cycles
- electronic position control
- electronic measuring data collection
- recipe administration
- integration in networks
- connection to data bases
- remote-operation
- barcode scanner
- ...

Measuring data collection



Application for Joos-Laboratory-Presses

Joos-Laboratory-Presses can be adapted to diverse requirements of development, construction or production. We have the solution for each customer:



LAP 450 designed as yoke press, pressing surface 1000 x 1000 mm, electrical heated, operating temperature 300°C, hydraulic aggregate is positioned at the side



LAP 500 designed as yoke press, pressing surface 1000 x 1000 mm, heated with thermo-oil, operating temperature 230°C, hydraulic aggregate and heating unit are positioned on top of the press



LAP 100, pressing surface 1800 x 1000 mm, electrically heated, operating temperature 250°C, hydraulic aggregate is positioned on top of the press



LAP 30, pressing surface 300 x 300 mm, electrically heated, operating temperature 350°C, heating platen with cooling zone which is positioned underneath, supplied by water tank

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	LAP 20	LAP 40	LAP 60	LAP 80	LAP 100	LAP 150	LAP 200
Pressing force max.	200 kN	400 kN	600 kN	800 kN	1000 kN	1500 kN	2000 kN
Pressing surface	500 x 500 mm	500 x 500 mm	500 x 500 mm	500 x 500 mm	500 x 500 mm	600 x 600 mm	600 x 600 mm
Effective surface	450 x 450 mm	450 x 450 mm	450 x 450 mm	450 x 450 mm	450 x 450 mm	550 x 550 mm	550 x 550 mm
Height of the pressing area	400 mm	400 mm	400 mm	400 mm	400 mm	400 mm	400 mm
Spec. pressure with full load	0,8 N/mm²	1,6 N/mm²	2,4 N/mm²	3,2 N/mm²	4,0 N/mm²	4,2 N/mm²	5,6 N/mm²
Spec. pressure with 300 x 300 mm load	2,2 N/mm²	4,4 N/mm²	6,7 N/mm²	8,9 N/mm²	11,1 N/mm²	16,7 N/mm²	22,2 N/mm²
Operating pressure	314 bar	326 bar	340 bar	314 bar	318 bar	306 bar	325 bar
Operating temperature	250°C	250°C	250°C	250°C	250°C	250°C	250°C
Operating voltage	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Weight	1800 kg	1900 kg	2100 kg	2400 kg	2700 kg	3300 kg	4000 kg

Subject to modifications because of technical advantages. All data without liability.

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