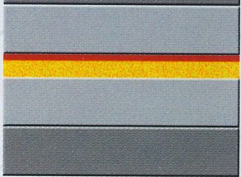


Product range
Laboratory-Presses LAP

From the idea to the success

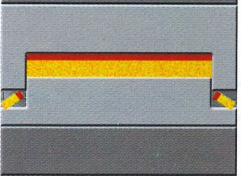
Pressen



Formen



Stanzen



Temperieren



Joos-Quality-Presses are the standard for innovative techniques.
Highest quality down to the smallest detail.
Compare all details that matter.

PRESSEN + TECHNOLOGIE



GOTTFRIED JOOS MASCHINENFABRIK

Joos-Laboratory-Presses: From the idea to the success



**Joos Laboratory-Press
Type LAP 60**

Success lives on the idea

To realise ideas means to give trials to new developments or pilot production.

Joos-Laboratory-Presses have been developed for this purpose. Their flexible modular design facilitates a fast adaptation to each type or problem.

The conception, design and production of Joos are especially orientated to these aims.

Develop solutions with Joos-Laboratory-Presses

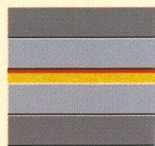
The enterprise

For more than 80 years, Joos has been the byword for quality products. From the know-how for standard machines in the wood working trade a technology enterprise has been developed. New ideas and the principle „progress by experience“ manifest themselves in Joos-Products and services.

Today, Joos-Quality-Products are used in trade, the wood working industry, automobile, the aircraft construction, the aerospace technology and in many other branches of industry all over the world.

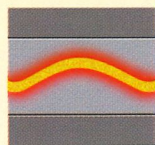
The uppermost aim of the enterprise was, is and will be to introduce to the market only technically matured products that meet the highest requirements of economy, ease of operation, safety and reliability.

The spectrum

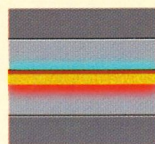
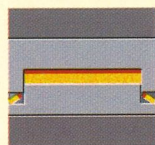


Joos solves problems in the areas

- **pressing**
- **forming**
- **stamping**
- **tempering**



Joos develops and manufactures individual or complete machines for you according to your details.



The Joos quality

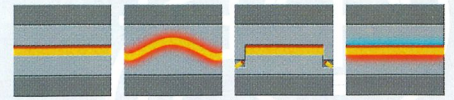
The Joos quality is regarded as important criterion among experts.

Not only the two gold medals for Joos are a honouring of the quality but also our multiple patented innovations offer the customer reliability when buying Joos-Quality-Products.

Quality means for Joos the keeping of fixed standards from the conception, the production to the customer service.

**Joos is certified in
accordance with
DIN EN ISO 9001.
Reg.No.: 70 100 F 323**



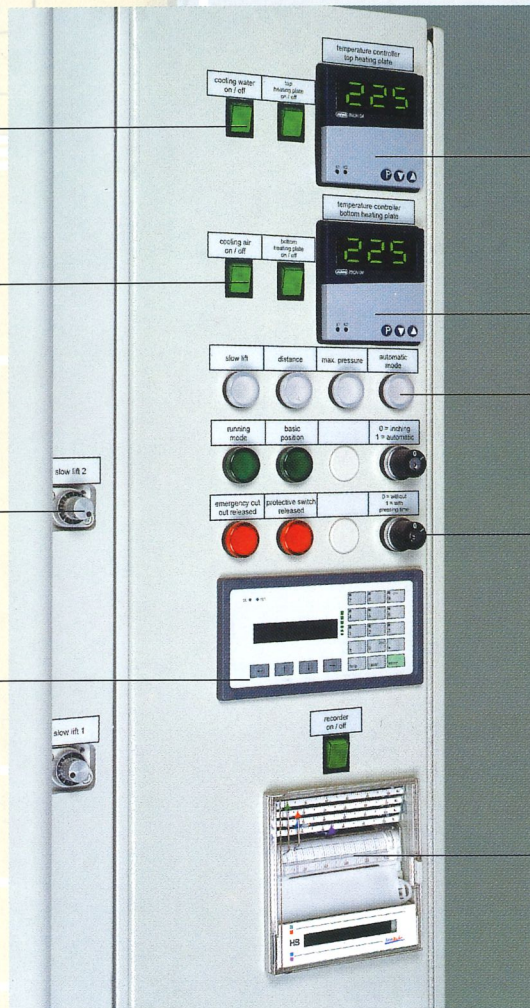


The Joos-Laboratory-Press is individually conceived:

Shiftable heating platen cooling by means of air or liquid media in dependency on the operation temperature

Closing speed and working stroke speed are variably adjustable

Programmable operation panel with 99 memory locations and LED-display



Heating platen with divided temperature control by means of digital electronic control

Reliable function monitoring

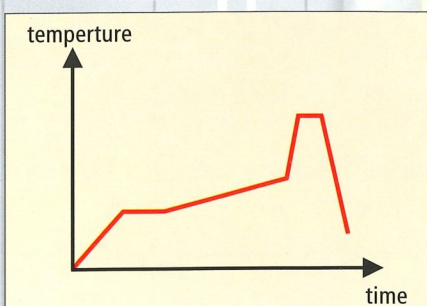
Manual or automatic operation

Process data collecting by means of a multi-channel graph recorder or connection to an external system.

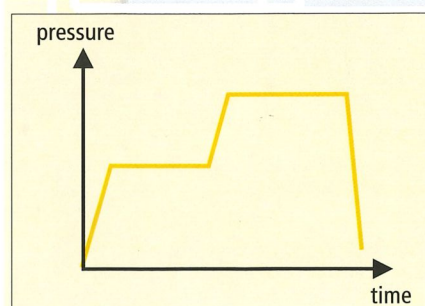
Supply

Joos-Laboratory-Press can be adapted to the varied requirements of development, design or production. So, pressure, temperature and time can be operated by means of program control. These facilitates for example the realistic representation of the material reaction to different parameter.

Fixed condition „Pressure“ and the variables: „Temperature“ and „Time“



Fixed condition „Temperature“ and the variables: „Pressure“ and „Time“



Options

Individually extended by:

- PC-interface for measuring data collecting
- position control with way measuring system
- PC-software for data evaluation
- pressure control
- maintenance of recipes
- program control
- measuring data collecting with writer
- heating options: resistance heating element, thermo oil, hot water (pressure water), steam

Type	LAP 40	LAP 60	LAP 80	LAP 100	LAP 150	LAP 200	Option
Pressing force max.	400 kN	600 kN	800 kN	1000 kN	1500 kN	2000 kN	<input checked="" type="checkbox"/>
Adjusting area	10 - 100 %	10 - 100 %	10 - 100 %	10 - 100 %	10 - 100 %	10 - 100 %	<input checked="" type="checkbox"/>
Height of daylight	400 mm	400 mm	400 mm	400 mm	400 mm	400 mm	<input checked="" type="checkbox"/>
Pressing surface	500 x 500 mm	500 x 500 mm	500 x 500 mm	500 x 500 mm	600 x 600 mm	600 x 600 mm	<input checked="" type="checkbox"/>
Effective surface	450 x 450 mm	450 x 450 mm	450 x 450 mm	450 x 450 mm	550 x 550 mm	550 x 550 mm	
Specific pressure	160 N/cm ²	240 N/cm ²	320 N/cm ²	400 N/cm ²	415 N/cm ²	555 N/cm ²	
max. specific pressure with reduced surface	200 N/cm ²	300 N/cm ²	390 N/cm ²	490 N/cm ²	490 N/cm ²	660 N/cm ²	
Operating pressure	326 bar	298 bar	314 bar	282 bar	282 bar	283 bar	
Piston diameter	125 mm	160 mm	180 mm	260 mm	260 mm	300 mm	
Required power	1,1 kW	1,1 kW	2,2 kW	2,2 kW	4,0 kW	4,0 kW	
No. of heating platen	2	2	2	2	2	2	<input checked="" type="checkbox"/>
Evenness of heating platen	+/- 0,1 mm	+/- 0,1 mm	+/- 0,1 mm	+/- 0,1 mm	+/- 0,1 mm	+/- 0,1 mm	<input checked="" type="checkbox"/>
max. operation temp.	250 °C	250 °C	250 °C	250 °C	250 °C	250 °C	<input checked="" type="checkbox"/>
optional up to max.	350 °C	350 °C	350 °C	350 °C	350 °C	350 °C	<input checked="" type="checkbox"/>
Heating-up period	ca. 5 °C/min.	ca. 5 °C/min.	ca. 5 °C/min.	ca. 5 °C/min.	ca. 5 °C/min.	ca. 5 °C/min.	
Closing speed	28 mm/sec.	28 mm/sec.	28 mm/sec.	28 mm/sec.	28 mm/sec.	28 mm/sec.	<input checked="" type="checkbox"/>
Working speed	3-15 mm/sec.	3-15 mm/sec.	3-15 mm/sec.	3-15 mm/sec.	3-15 mm/sec.	3-15 mm/sec.	<input checked="" type="checkbox"/>

All values specified in this brochure are approximate. Attention in the case of technical progress and all rights are reserved.

The given values only apply to the basic models. Joos-Laboratory-Presses can be adapted to the varied requirements of development, design or production. The flexible modular design facilitates a fast adaptation to each type of problem.

Name us your requirements and ask for solutions of Joos.

Gottfried Joos

Maschinenfabrik
Gottfried Joos Str.
72285 Pfalzgrafenweiler
Fon +49 (0) 74 45/18 40
Fax +49 (0) 74 45/18 450
Email Info@Joos.de
www.Joos.de

The Joos product range:

- Pneumatic Presses
- Hydraulic Presses
- Throughfeed-Presses
- Shape-Part-Presses
- Special-Presses
- After-Sales-Service
- Glue-Spreaders
- Handling devices

Joos USA

Joos USA Inc.
244 Cox Street
Roselle, N.J. 07203
Fon 001-90 86 20 39 00
Fax 001-90 86 20 39 01
Email JoosUSA@aol.com

Your partner:

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