



PRESSES+TECHNOLOGY GOTTFRIED JOOS MASCHINENFABRIK INTERNATIONAL

Vacuum technology & Thermoforming



Joos-Vacuum-technology

Company Joos is a reliable partner with long tradition and great experience in building presses for the woodworking industry. The outstanding quality of Joos products is setting the benchmark in this market range.

For producing shape parts with wood-based materials and forming thermoplastic materials we developed vacuum presses in most diverse designs. These are produced in standard as well as in user-specific design. **Technical data** and sizes for serial machines can be found on the backside of this brochure.

Model VAK Heavv Line



Application

Highest flexibility in design and manufacturing of the machines grant a wide application spread:

- Production of shape parts from veneers, thin plywood, moulded plywood, honeycombs and laminates
- Lamination of flat and shaped parts with foils, veneers, laminates, etc.
- Production of shaped parts from thermoplastic materials such as solid surfaces, acrylic, plastics, etc.
- Gluing edges and profiles

The model VAK Heavy Line features a solid construction and well-engineered technology. By the usage of standardised components we grant a simple and safe operation as well as an affordable fabrication.

- Vacuum working surface with crisscross milling
- Solid steel construction
- Quick change membrane system
- Digital adjustable vacuum capacity
- Workmanship of big (up to approx. 600 mm) and heavy (up to approx. 200 kg) shape parts as well as exacting component geometries
- For laminations a heating hood (up to approx. 80°C) can be provided as an option

Heating tables



Acrylic



Shaped wood



Solid surface

For tempering thermoplastic materials such as solid surfaces, acrylic and many more up to the necessary working temperatures (max. 180°C), company Joos supplies standard as well as customised designed heating tables. The combination of these heating tables with the Joos vacuum presses provides a maximum of manufacturing possibilities and operating comfort for the innovative interior designer. **Technical data** and sizes of serial machines can be found on the backside of this brochure.

- Solid base frame (optional in mobile design)
- Easy opening with gas pressure damper
- Easy material handling
- Small footprint
- Adequate working temperatures up to 180°C
- Energy-efficient heating power up to 3.5 kW/m²
- Precise temperature control by microprocessor controller
- Affordable due to serial production





Model VAK Industrial Line

As usual company Joos takes a step forward beyond the serial production and designs the suitable solution for advanced customer requirements, this also counts for the vacuum technology. In close cooperation with our customers Joos developed the model Industrial Line. The machines of this model impress with precise and easy operating as well as multi-purpose usability especially in the processing of large and complex parts.



- Deciding advantages:
- Open and operable on all sides
- Customer-specific planning
- 4-column design with motorised sealing drive
- Ease of use
- Loading facilities optionally available



Model VAK-S

■ The model VAK-S stands for special applications. Also in the sector of vacuum-presses Joos considers himself as problem solver. For the production of special parts company Joos delivers the special machine. The illustrated plant is a vacuum-laminator with an integrated transport system.

The machine meets special requirements in the fields materials handling, control technology and heating technology. This Joos solution is used for the production of solar modules.



■ ■ ■ **Technical data and sizes for standard models - special designed models on request**

■ **Model VAK Heavy Line**

	VAK 2515 HL	VAK 3015 HL	VAK 3515 HL	VAK 4015 HL
Working surface without material	2300 x 1300 mm	2800 x 1300 mm	3300 x 1300 mm	3800 x 1300 mm
Max. mould height	300 mm	300 mm	300 mm	300 mm
Max. mould surface	1700 x 800 mm	2200 x 800 mm	2700 x 800 mm	3200 x 800 mm
Vacuum pump	40 m ³ /h	40 m ³ /h	40 m ³ /h	40 m ³ /h
Vacuum tank	200 ltr.	200 ltr.	200 ltr.	200 ltr.
Power supply	400 V	400 V	400 V	400 V

Modifications based on technical development are subject to change without notice.

■ **Heating tables**

	HT 2510	HT 3110	HT 3710
Working surface	2500 x 1000 mm	3100 x 1000 mm	3700 x 1000 mm
Temperature	180°C	180°C	180°C
Working height	900 mm	900 mm	900 mm
Connected load approx.	17.5 kW	22 kW	26 kW

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