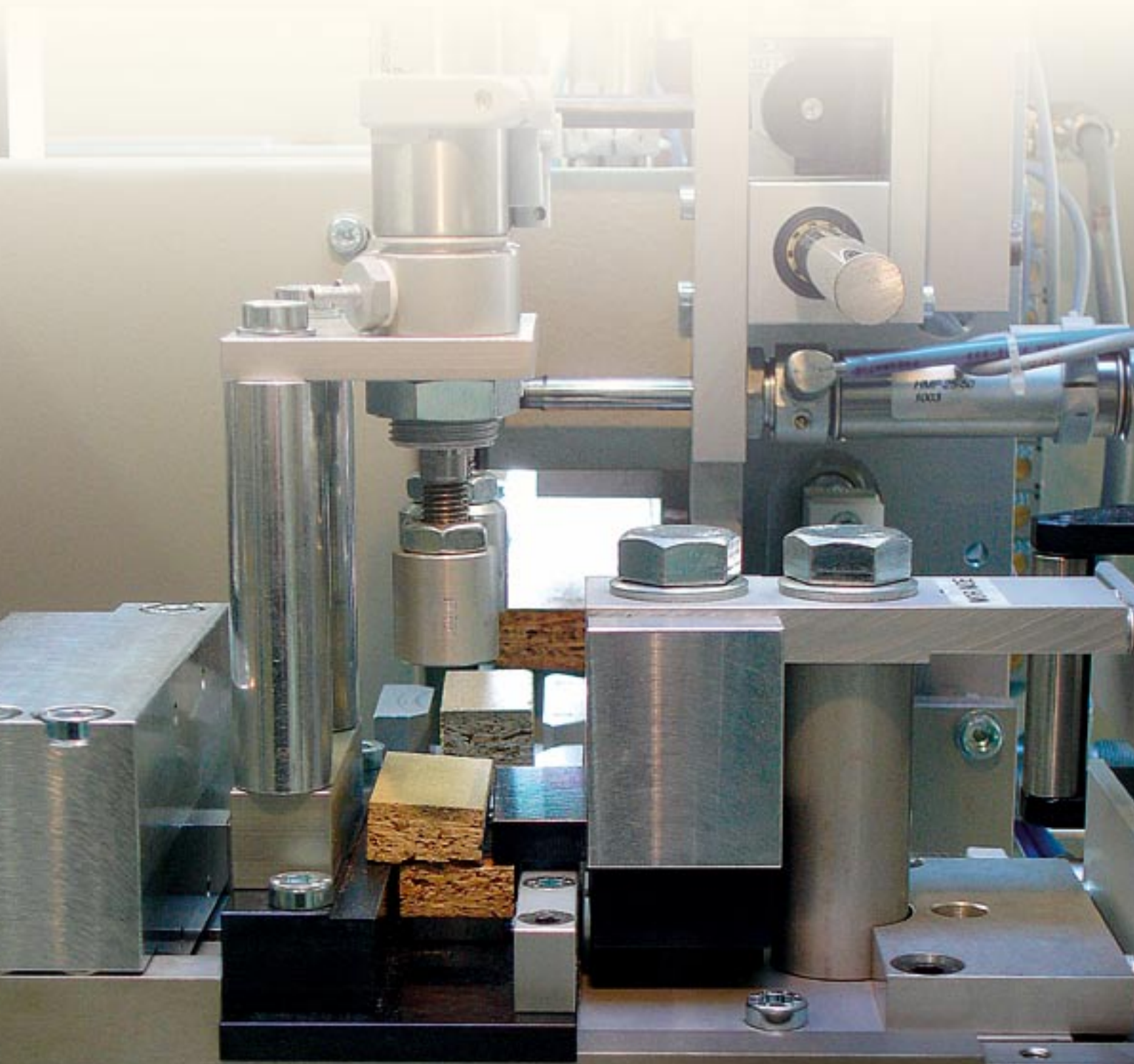


BONDCHECK

Quality Control
with the Panel Testing System



GreCon®

Quality Control with the Panel Testing System BONDCHECK

If the mechanical features of wood based panels deviate from nominal values, their usefulness to the customer will be limited. The reduction in the panel's price and profits are the results.

For exact analysis and for the completion of the data supplied by online measuring systems, the mechanical quality features of wood based panels can be easily and precisely determined with the panel testing system Bondcheck. The system is designed especially for the quick check and control of the running production process.

Using special testing methods, it is possible to conduct practical tests without the lengthy preparation of test samples (cutting and glueing onto yokes). The test results are available shortly after the pressing of the panels and can be immediately used to optimise the production process. Besides raw panel testing, the Bondcheck is also able to test sanded and laminated panels.

For the automatic and effective processing of different tests, an optional sample memory for up to three sample strips is used.

Construction of the Testing System

The Bondcheck consists of the testing unit and a visualisation computer. The testing system is installed in a compact, robust housing, which makes the use of the system close to the production line and operation by the press operator possible. The Bondcheck's modular design allows the testing system to be individually configured and equipped with the desired testing programs.

Testing programs	Particleboard	OSB	MDF	Plywood
Internal bond strength of grooved panel samples (thickness > 13 mm/0.51 in)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shear strength of the core layer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Shear strength 3 mm/0.12 in underneath the surface	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Shear strength of the surface	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Edge strength of the surface	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bending strength Distance between points of support: 175 to 500 mm/0.69 to 19.5 in, continuously adjustable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Modulus of elasticity in addition to the bending strength	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Raw density calculated from dimensions and weights	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Technical Specifications

- Mains voltage: 230 V / 115 V
- Frequency: 50 Hz / 60 Hz
- Power consumption: 750 VA
- Compressed air consumption: 6 bar/90 psi

References

- Particleboard
- Fibreboard
- OSB board
- Plywood

Software

The visualisation software of all GreCon measuring systems is based on Windows. The software of the Bondcheck consists of the following program modules:

■ Visualisation

The core of the software package is the visualisation software. It records, stores and graphically represents all measured data. The simple menu structure makes an intuitive operation possible. Clear information and graphics enable the operator to work quickly and effectively. The graphical representation of the measured values as well as the statistical evaluation is done according to EN 326-2.

■ History Data Base

This data base stores the measured values and provides a function to export them to other file formats for further processing and evaluation.



GreCon



Fagus Factory, constructed by Walter Gropius in 1911

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