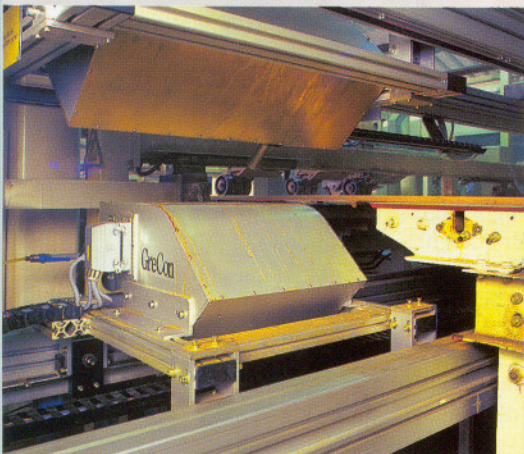


## Two Developments For Your Board Quality

### GreCon Raw Density Profile Measuring System StenOgraph supplies online raw density profile as early as possible

For MDF as well as particleboard and OSB, the density profile is of decisive importance for the quality of the mechanical



Online density profile measurement in rough environment directly after the press

panel features. Today, wood based panels with different, but exactly defined density profiles are required to fulfill certain purposes of application. Until now, this important parameter could only be checked in time-consuming laboratory tests.

With the online raw density profile measuring system StenOgraph, GreCon developed a measuring system which – installed directly at the outlet of continuous presses – supplies the raw density profile so early that a quick, direct rectification of the production process is possible. What makes this measuring system stand out is the possibility of quick product changes, the controlled reduction of safety reserves, but also shorter run-in times of new production plants. The measuring principle of the raw density profile measuring system

StenOgraph is based on a combination of transmission and scattering of X-radiation. A narrowly focused X-ray beam penetrates the cross section of the moving panel in an angle of about 45°. A scanning detector system records the density-dependent scattered radiation along the plane of the panel and a stationary detector records the transmitted radiation. By combining both signals, the density of any part of the panel cross section is calculated directly. Thus, a scan of the full thickness as well as a sub-scan of selected areas can be made. Even the raw density profiles of thin panels can be determined with this system which is patented worldwide.

Thanks to a thought-out modular design, the StenOgraph can be easily adapted to the local requirements. It is therefore especially suitable for installation in existing press systems.

### Infrared Moisture Analyzer IR 3000 WBPi continuously measures the chip and fiber moisture in a non-contact way

For the production of wood based panels, the right moisture content of the used material is of great importance. If the chips or fibers are too humid, this will have negative effects on the panel quality and the production speed. If they are too dry, energy is wasted in the drying process. The same applies to glued material.

With the moisture analyzer IR 3000 WBPi, GreCon developed an online measuring system which uses an optical measurement transducer and thus works in a non-contact way. Light of the near infrared region (NIR region) is used which is especially suitable for the measurement of organic substances. The light which is reflected depending on the

moisture content is compared in the measuring head with reference beams created before and used to determine the material moisture. This measuring principle ensures high system stability and measuring accuracy, independent of external influences. Optimum product moisture can be obtained in a very economical way by installing one measuring system each before the dryer and the blender and one system each after these two stations. The use of a further moisture analyzer in or after the forming station gives final information on the spread chip or fiber mat.

### Additional fiber measuring device for measurement in drop chutes

The moisture analyzer IR 3000 WBPi can be easily integrated in the newly developed fiber measuring device FMV 3000. This device is

suitable to reliably determine the material moisture in drop chutes, which is of great interest especially after the dryer. The fiber measuring device is constructed in such a way that fibers from the drop chute are



collected and measured in a special collecting basin. After each measurement, a flap is opened and the measured fibers returned to the production process. At the same time, new fibers are collected and a new measurement started. Through the integration of a flap which is accessible from outside, samples can be taken for further examination at any time.

For more information  
please quote

Key No. 62570

### Heatingplatens for all makes Of presses

www. **ELKOM** .de  
Tel.: ++49 - 5731-77820 Fax: 778212 mail: [elkom@elkom.de](mailto:elkom@elkom.de)

Key No. 59627

### Your reliable partner for woodworking machinery:

- Sale of new and special machines
- Sale of used machines
- Sale of complete machine plant

A large selection of new  
and used machinery is  
available upon request



V. Grum-Schwensen GmbH  
Zur Bauernwiese 12, D- 32549 Bad Oeynhausen  
Telefon: 0049 (0)5731 52061, Telefax: 0049 (0)5731 5741  
[www.grumschwensen.de](http://www.grumschwensen.de), E-mail: [grum-schwensen@t-online.de](mailto:grum-schwensen@t-online.de)

Key No. 59406