

**CS 5000**

Inline Weight Measurement  
with the Continuous Board Scale



GreCon®

# Quality Control with the GreCon Continuous Board Scale

Exploit all reserves of your production. Homogenise your process, increase the availability of your equipment and increase your profit.

Fluctuations in the material distribution and the panel weight cause an increase in production costs while reducing quality.

The inline continuous board scale CS 5000 makes automatic monitoring of the material distribution and the panel weight possible. The GreCon continuous board scale is ideal for production lines with very high production speeds, in cramped conditions or in case of an unfavourable ratio between tare and panel weight. Contrary to usual board scales using weighing tables, the CS 5000 shows the weight distribution within the measured panel across the production direction. A measuring data processor displays the measured values and makes an easy parameterisation of the system possible. Special advantages of this system are the small space required, the high measuring accuracy and the insensitivity to any impairing surroundings, such as dust, steam and high material temperatures.



Long-time representation of weight and raw density

Thus, the use of the continuous board scale CS 5000 in endless production or in the measurement of single panels is possible. By an optional link with a GreCon thickness gauge, the average raw density and its distribution within the panels can also be calculated and used to optimise the process.

- Short-time trending
- Visualise the panel weight and the weight per unit area of 100 panels.
- Long-time trending
- Monitor the weight of 500 panels.
- Calibration
- Measure accurately through automatic calibration to a homogeneous test sample.

## Measuring Principle

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The continuous board scale operates in a non-contact way. For measurement, the material to be weighed is penetrated by X-rays. Depending on the material quantity and the specific weight of the material, the radiation intensity measured by the sensor changes. This is the measure for the weight per unit area ( $\text{kg}/\text{m}^2$ ).

## Software

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The visualisation software of all GreCon measuring systems is based on Windows. The software of the CS 5000 consists of the following program modules:

- Recipe Management  
This is a product data base in which different panel types and production parameters, which are relevant for the measuring system, can be stored.
- Visualisation  
The core of the software package is the visualisation software. It records, stores and graphically represents all measured data. The simple menu structure, which is identical for all GreCon measuring systems, makes an intuitive operation possible. Clear information and graphics enable the operator to quickly and effectively adjust the running production process.





OUR HEADQUARTERS AT ALFELD - BUILT BY WALTER GROPIUS IN 1911

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