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GreCon

**Inline Weight
Per Unit Area Scale
with X-Ray
Technology**

GreCon

Fire
Protection

GreCon

Measuring
Technology

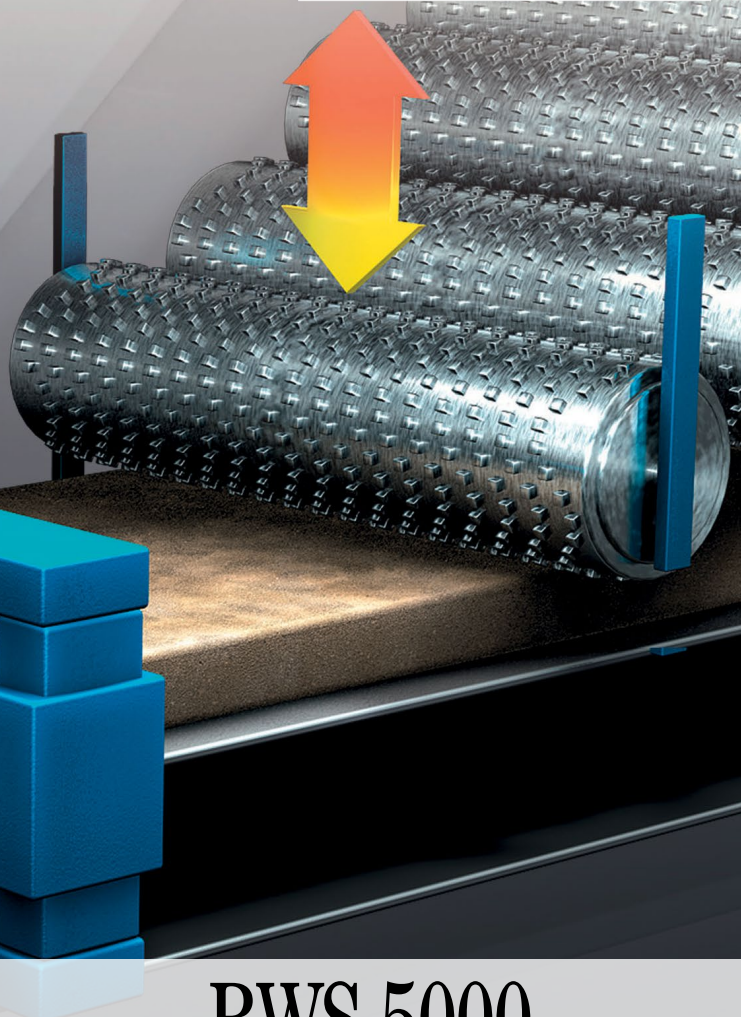
GreCon

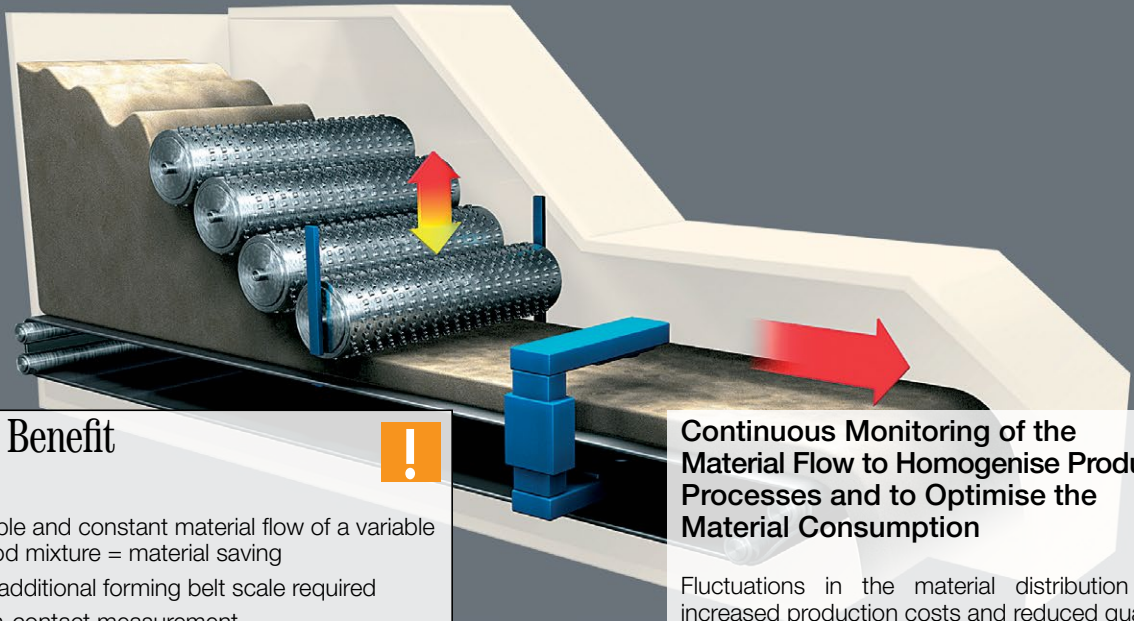
Service



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BWS 5000





Your Benefit



- Stable and constant material flow of a variable wood mixture = material saving
- No additional forming belt scale required
- Non-contact measurement
- Monitoring of the material distribution
- Calibration with homogeneous test samples ensures precise measurements

Continuous Monitoring of the Material Flow to Homogenise Production Processes and to Optimise the Material Consumption

Fluctuations in the material distribution cause increased production costs and reduced quality.

The Inline Weight Per Unit Area Scale BWS 5000 allows automatic monitoring and regulation of material distribution. The system keeps the fixed weight per unit area in the measuring position, even with changing wood assortments and different chip sizes. A visualisation computer shows the measured values and provides an easy parameterisation of the system. The BWS 5000 is installed directly in the forming station or at the dosing or forming belt. Special features of this system are minimal space, high measuring accuracy and unaffected by surroundings, such as dust, vapour and high temperatures.

Compared with other measuring methods, the advantage of the BWS 5000 is that even minor fluctuations in the material distribution can be recognised and automatically compensated.

Why GreCon



- Installation directly in the forming station to regulate the material flow
- Installation after the forming station to measure the whole mat to adjust the scalper
- Reliable measured values
- Flexible use with various products
- Low maintenance required

Measuring system with C-frame, installed in forming station or forming belt, controls the belt speed or height-adjustable rakes



Measuring Principle

The weight per unit area scale works in a non-contact way. The measured material is penetrated by X-rays. Depending on the amount of material and the specific weight of the material, the radiant intensity measured by the sensor is changed. This is the measure for the weight per unit area (kg/m^2 / lb/ft^2). Different measurement transducers are available, depending on material structure and installation place.

Interfaces

The weight per unit area can be automatically regulated by changing the speed of the forming or dosing belt. For this purpose, an analog output signal is provided. Alternatively, voltage-free relay outputs are available for the regulation of the material quantity with height-adjustable rakes.

Software Functions

■ Software

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

■ Network Connection

For the data transmission to higher-ranking process control systems, different network connections, such as OPC or ODBC, are available.

■ 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 intuitive operation possible. Clear information and graphics enable the operator to quickly and effectively adjust the running production process.

■ Recipe Management

This is a product database in which different panel types and production parameters for the system can be stored.

■ Database

The database stores the measured values and provides a function to export them to other file formats for further processing and evaluation. A uniform data structure provides easily accessible data for process control systems.

