

**GS 5000**

Inline Weight Measurement  
with the Board Scale



GreCon®

# Quality Control with the GreCon 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 cause an increase in production costs while quality is reduced. The Inline Board Scale GS 5000 makes an automatic monitoring of the material distribution and the panel weight possible.

Starting with power transducers and the belonging amplifiers via evaluation systems up to complete scales as part of a production line, the GreCon weighing systems are used for demanding and high-precision weighing tasks to monitor the material quantities used for production and for classified sorting.

## Construction of the System / Function

The platform weighing scale measures the weights of solid materials, such as wood based panels. Measurement can be carried out both in standstill and during running production. The weight is measured by specially developed radial supports with integrated weighing cells. Depending on the measuring task and the mechanical construction of the weighing table, weighing cells with an optimum measuring range are used in optimum number. For measurement during running production, the weighing system is preferably used with a belt conveyor, which is constructed in such a way that vibrations



Board scale with belt conveyor

are eliminated by mechanical damping, suspension arms and electronic filters that are integrated in the evaluation system.

The length of the measured material, transport speed, mechanical dynamics, and electronic running times determine the table length and the weighing time of the scale during running production. The electrical signal which is generated in the weighing cells is pre-processed by a carrier frequency amplifier and then transferred to a control console. Representation and easy operation of the system are done by a touch screen. The weighing data can be output to a network printer or the data transferred to a process control system. By an optional linkage with a GreCon thickness gauge, the average raw density and the weight distribution within the panels can also be calculated and used to optimise the process.



Radial support

## Technical Specifications

- Mains voltage:..... 230 V / 115 V
- Frequency: .....50 Hz / 60 Hz
- Power consumption: ..... 400 VA
- Measuring range  
per weighing cell:.....500, 1000, 2000 kg  
1100, 2200, 4400 lbs
- Measuring accuracy:.....  $\pm 0.1$  % of the end  
value of the measuring range of the weighing cell
- Number of weighing cells:..... 4, 6, 8  
depending on the application



## Installation Places

- After the press
- Star cooler
- Sanding line
- Panel store (stack scale)

## Why GreCon



- Quick and timely recognition of weight deviations
- Clear display of the consequences of changes in the production (intentional or unintentional)
- Display of optimisation potentials
- Reliable measured values
- Flexible use with various product alternatives
- Avoidance of rejects
- Low maintenance required

## Your Benefit



- Measurement while production is running or standing still
- Can be combined with a thickness gauge to evaluate the raw density
- Avoidance of wrong panel weights, permanent monitoring of the material consumption
- Quality control
- Fast amortisation



Long-term representation of weight and raw density

## References

- Particleboard
- MDF board
- OSB board
- Plywood
- HDF board
- Hardboard
- Composite materials



OUR HEADQUARTERS AT ALFELD - BUILT BY WALTER GROPIUS IN 1911

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