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GreCon

Surface Quality Control for Inspection of Fibre Sizes

GreCon

Measuring Technology

GreCon

Fire Protection

FIBERVIEW

EN | R.02 | 2013.10

Your Benefit

- Reliable, objective and representative evaluation of the fibre distribution in the fibre mat
- Consistent fibre size distribution on the surface
- Reduction of energy consumption by controlling the fibre processing (refiner and cooker)
- Advantages for the production of panels for direct lacquering
- Evaluation of the fibre quality for panel processing (direct printing)

Why GreCon

- Operation ease
- Low maintenance and flexibly expandable
- Connection to PLC via Profibus
- Visualisation including reporting
- Telediagnostic service by GreCon customer service

Automatic and Reliable Surface Inspection to Monitor the Panel Quality

The Surface Inspection FIBERVIEW monitors the fibre sizes of the mat during the production, thus ensuring a continuous, consistent monitoring of the spread fibres in the panel production. Fault reports and statistical data allow detailed conclusions of the upstream production process.

The fibre mat is inspected by a camera system on the top surface. The individual fibre sizes are analysed. This process is accomplished continuously during the production so that representative information on the fibre distribution is available. With this information, consistent surface properties can be guaranteed. The very energy-consuming process of fibre processing can be optimised

Automatic inspection: The goal is to analyse the demands placed on the surface of the product concerning the occurrence of shives (big fibres). Thus, not only the used refiner energy can be optimised, but also rejects reduced. With too large or small a number of shives per surface unit identified the refiner adjustment can be optimised.

Design and Construction of the System

The basic construction of the measuring system is a solid, closed frame construction.

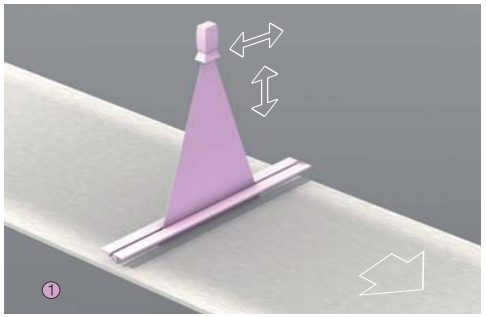
The visual field of the camera is protected from dirt, dust, chips and light intrusion by a closed tube.

Slight positive pressure provides optimum measuring conditions while cooling the light source.

The entire camera/illumination unit automatically adjusts to changing working levels.

The inspection performance results from an analysis of the fibre sizes.

① FIBERVIEW module



Software Functions

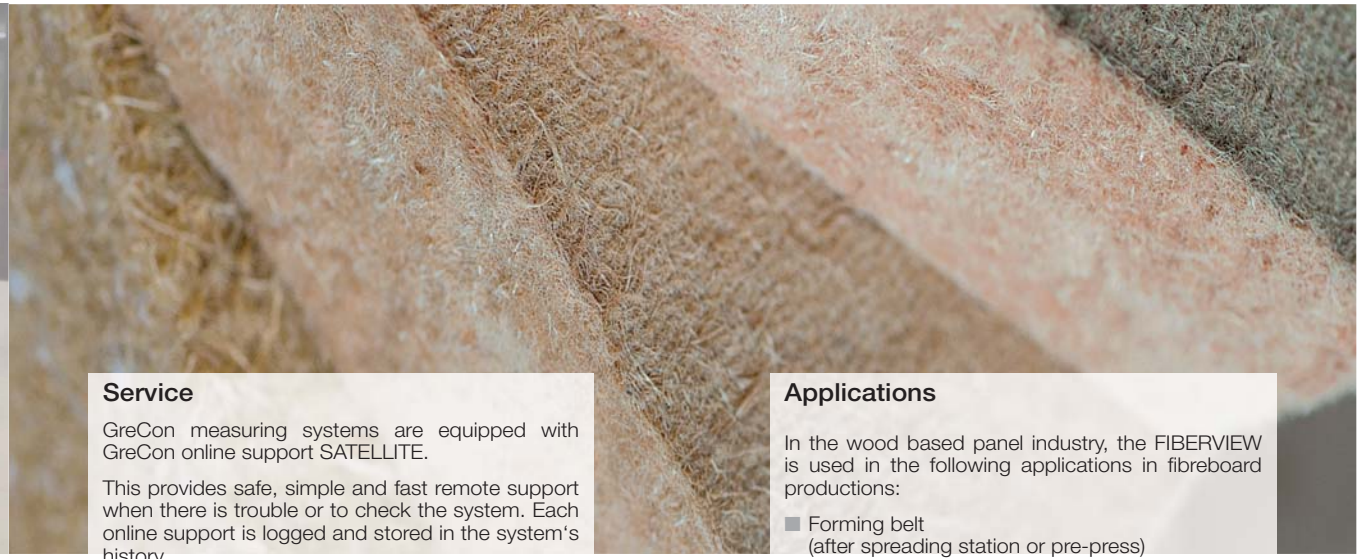
■ Software
The visualisation software of all GreCon measuring systems is based on Windows.

■ Network Connection
For the data transmission to higher-ranking process control systems, different network connections, such as OPC or Profibus, 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, provides intuitive and user-friendly operation.

■ Database
The database stores the desired measured values, thus allowing to call up the panels inspected from a history for analysis at any time.

■ Reporting
Using special software, individual reports can be generated from the database. Available reporting types are time-related reports, such as shift or monthly reports, and order-related reports that can be selected according to requirements.



Service

GreCon measuring systems are equipped with GreCon online support SATELLITE.

This provides safe, simple and fast remote support when there is trouble or to check the system. Each online support is logged and stored in the system's history.

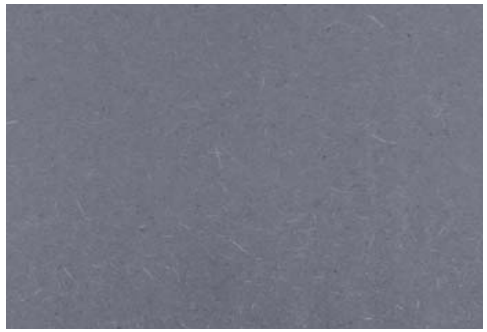
Technical Specifications

■ Inspection width .....400 mm (16 inch)
■ Temp. production hall .....400 mm (16 inch)

Applications

In the wood based panel industry, the FIBERVIEW is used in the following applications in fibreboard productions:

■ Forming belt
(after spreading station or pre-press)
■ Alternatively after the press



Fibre mat with identified shives