

CHIPINSPECTOR

Contamination-free Wood Chips by Automatic
Separation of Foreign Objects of all Sorts



GreCon®

Quantum Jump in MDF Quality

The GreCon CHIPINSPECTOR separates foreign objects so that high panel quality and significant savings of material and production costs can be achieved.

The measuring systems that have been available so far are not capable of detecting a broad spectrum of foreign objects.

Using a dual-energy method, 99 % of all foreign objects can be detected in the material supply and diverted before they reach downstream processes. Because of the material-specific absorption behaviour of different materials, materials of the same weight per unit area, such as wood and rubber, can now be reliably distinguished with this technology.

Contamination of the material flow can be identified regardless of the surface structure or moisture content of the raw material. Foreign objects are even identified in thick material layers of up to 50 mm. They will be reliably detected even if they are covered by chips. The reliable identification and diversion of rubber parts before defibration significantly reduces the risk of contamination of the panels by rubber parts on the surface.

Detection of Diverse Materials

- Rubber down to a size of 1 cm³, for some rubber types a minimum edge length of 6 mm is possible



- Stones with a base area of 25 mm²
- Glass pieces (3 mm thickness) with a base area of 25 mm²
- Metal parts with a base area of 10 mm²
- Clumps

Function

- Reliable detection of foreign objects using dual-energy X-ray method
- Even material distribution by vibrating conveyor
- Diversion of foreign objects via precision flaps to minimise the reject of good material

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 ODBC, are available. Profibus and Profinet are available on request.



Your Benefit



- Improved quality
 - Satisfied customers through excellent panel quality
 - Fewer complaints
- Improved product quality
 - Reduction of material costs
 - Fewer rejects
 - High material load of up to 55 t/h atro
- Reduction of production costs
 - Less maintenance due to less strain of downstream facilities
 - Longer life of grinding discs

■ Database

The database stores the data and provides a function to export it to other file formats for further processing and evaluation. A uniform data structure provides easily accessible data for process control systems. For statistical purposes, 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 where there is trouble or to check the system. Each online support is logged and stored in the system's history.

Why GreCon



- Customer-specific system design
- High innovative capacity: more than 10 % of the employees work in the R & D division
- Worldwide customer service network: more than 80 service technicians on duty worldwide
- Efficient sales network: represented in more than 35 countries
- High expertise: more than 40 years of experience in the measuring technology sector

Applications

- MDF
- HDF
- Processing of waste wood

Technical Specifications

CHIPINSPECTOR 12

- Amount atro 12 t/h
- Assumed spreading density atro $\geq 140 \text{ kg/m}^3$
- Conveyor belt width 1000 mm
- Advance 67 m/min

CHIPINSPECTOR 30

- Amount atro 30 t/h
- Assumed spreading density atro $\geq 140 \text{ kg/m}^3$
- Conveyor belt width 1600 mm
- Advance 110 m/min

CHIPINSPECTOR 55

- Amount atro 55 t/h
- Assumed spreading density atro $\geq 140 \text{ kg/m}^3$
- Conveyor belt width 2000 mm
- Advance 120 m/min





OUR HEADQUARTERS AT ALFELD - BUILT BY WALTER GROPIUS IN 1911

GreCon

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