

UPU 2000

Online Blow Detection
with Ultrasonic Camera



GreCon®

Quality Control with the GreCon Bond Analyser

Exploit all reserves of your production, homogenise your process, increase the availability of your equipment.

Undetected blisters lead to unsatisfied customers.

The GreCon Bond Analyser UPU 2000 is the optimum measuring system to guarantee the quality standards required today.

Hidden defects within the panel are detected, marked and a signal to sort them out is given. The visualisation system clearly represents the size and position of the defects.



Construction of the System

Up to 16 inspection channels can be mounted on a frame, which is made out of patented aluminium profiles. The cable and compressed air ducts are integrated in the profile and thus protected against surroundings.

The transmitters, which are installed below the material to be measured, create the necessary ultrasonic energy. The emitted ultrasonic pulse is directed to the receivers through the panel by means of a reflection mirror, also installed below the material. This patented arrangement of vertically installed ultrasound beam hole and inclined reflection mirror has the advantage that falling dust or chips are diverted so as to avoid dirt accumulation on or choking of the transmitter units.

The receivers can tilt backwards or forwards. Thus, the receivers are protected against damage by big blisters and mechanical misadjustments.

Software

The visualisation software of all GreCon measuring systems is based on Windows. The software of the UPU 2000 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. The measured panels are graphically represented in up to five colours.

■ History Data Base

This data base stores the measured values and provides a function to export them to other file formats for further processing and evaluation.

Network Connections

For the data transmission to higher-ranking process control systems, different interfaces, such as NET DDE, Allen Bradley Ethernet or Ethernet with TCP/IP or H1 BUS protocol, are available.

Online After-Sales Service

GreCon measuring systems are equipped with a modem, by means of which a direct connection to the GreCon after-sales service can be made. Support, changes in parameters, software updates and trouble shooting are all possible online.

Technical Specifications

- Mains voltage:..... 230 V / 115 V
- Frequency: 50 Hz / 60 Hz
- Power consumption: 750 VA
- Compressed air supply:..... 6 bar / 90 psi
- Compressed air consumption:approx. 145 l/h / 0.1 cfm

- Max. number of inspection channels per electronics evaluation:..... 16
- Panel thickness:.....max. 40 mm / 1.75 in
- Conveying velocities:max. 250 m/min / 750 fpm
- Minimum defect size: ..35 mm x 35 mm / 1.4 in x 1.4 in
- Diameter of measuring spot: 50 mm / 2 in
- Mechanical width per inspection channel:.... 110 mm / 4.33 in

References

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

Installation Places

- After the press
- Star cooler
- Sanding line



GreCon



Fagus Factory, constructed by Walter Gropius in 1911

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