

**UPU 6000**

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Inline Delamination Detection  
with the Ultrasonic Measuring System



GreCon®

# Quality Control with the GreCon Delamination Detector

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

Undetected blisters lead to unsatisfied customers.

The GreCon Delamination Detector UPU 6000 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

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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.

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

## Software

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The visualisation software of all GreCon measuring systems is based on Windows. The software of the UPU 6000 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.

### ■ SQL 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.

### ■ Report Function

The report function makes possible an automatic production of, for example, shift or production reports for freely definable time periods.



## Calibration of the System

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The quality of the measured results essentially depends on consistent conditions during measurement. As this cannot be permanently ensured in industrial environments, the GreCon Ultrasonic Measuring System is equipped with a calibration function.

The perfect function of the inspection channels can be checked and re-adjusted, if necessary, by means of special calibration caps.

## Network Connections

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

## Online After-Sales Service

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GreCon measuring systems are equipped with a modem or VPN, which provides a direct connection to GreCon service when needed. Support, changes in parameters, software updates and trouble shooting are all possible online.

## Technical Specifications

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- 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 detectable 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

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

## Why GreCon

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- Fast and early detection of quality fluctuations
- Reliable measured values
- Flexibly usable for different products and product versions
- Low maintenance expense

## Your Benefit

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- Reduction of pressing times (optimisation)
- Avoidance of complaints
- Quick product changes
- Use of reserve capacities
- Quick amortisation





OUR HEADQUARTERS AT ALFELD - BUILT BY WALTER GROPIUS IN 1911

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