

Thickness Gauge

THICK-SCAN *Mark 3*

Continuous Thickness Measurement avoids waist of raw material

Production of panels which exceed plus-tolerances results in increase of production cost. This also results in consumption of additional (unneeded) glue and raw material while also extending the press time.

The EWS Thickness Gauges help to optimize the process and to reduce the costs while, at the same time, assuring the quality standard.



The time is long past

where panel thickness tolerances have been measured during production by handheld devices. Today, however, such measurement is carried out continuously online. In the majority of plants, quality control is **not the first priority** for new investment for online thickness measurement. The current trend is to achieve the enormous potential savings in wood raw material, resin and energy consumption.

If the **upper tolerance level is exceeded, valuable resources are wasted.**

THICK-SCAN prevents such losses. It is so robust and reliable that we call it a „work horse“. Another feature is that the system is designed to be installed on a **continuous production basis** – providing **online calibration without a gap between panels (patented).**

If the gauges are located in the sanding line, the service life of the sanding belts is shortened.

Function

The measuring heads are mounted opposite to each other and indicate panel thickness continuously during production.

Installation Locations

- After the hot press
- Before / between / after sander

Technical Data

- Technology:
 - a) contact:
(intern non-contact)
 - b) non-contact:
laser (triangulation)
- Accuracy:
 - a) contact:

+/- 0.02mm
per pair of heads

+/- 0.01mm
per measuring head
 - b) +/- 0.1 mm
- Number of tracks: on request

Optional

- Online-Calibration
 by separate reference track located outside of the production line.
 (Note: This is a patented feature.)
 Recommended for endless production or if gaps exist < 0.7s.

Features of this method:

- Higher accuracy by taking temperature of the environment into account
- Avoiding additional maintenance work compared to a movable C-frame solution

- Connection to PLC
- Extendable to blow detection
- Integration of board scale to allow density evaluation
- Movable tracks

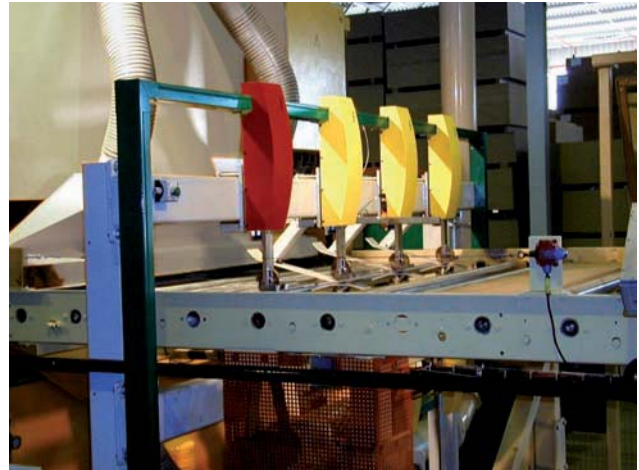
Software

Clearly arranged visualization by PiperWare Software. (Please see description in this brochure).

- Cross-, lengths profile
- Trend per track
- Trend min., max. and mean value
- History

Data Evaluation by EWS „GAUGE-CONTROLLER“

- Real time operating system
- Network connection for visualization-PC



Calibration Track (red)

Type List:

THICK-SCAN

Measuring tracks at fixed positions

THICK-SCAN M

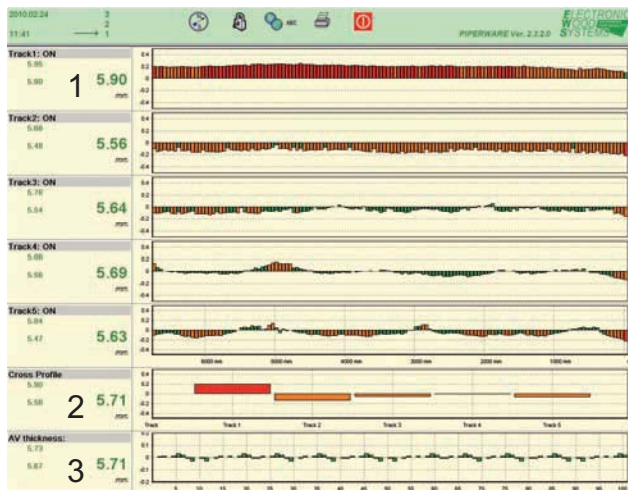
With movable tracks

THICK-SCAN C

With off-line calibration track

THICK-SCAN L (Laser)

For insulation boards



- 1 Thickness track
(Example shows five tracks.)
- 2 Thickness profile cross to production
- 3 Average thickness
(Each bar shows one panel.)

