

Thickness Measuring System

THICK-SCAN

Continuous Thickness Measurement avoids waist of raw material and energy

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

EWS thickness measuring systems which are located after the hot press help to optimize the process and to reduce the costs while, at the same time, assuring the quality standard.

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



The time is long past since ...

... 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.

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

Data Evaluation by EWS "GAUGE-CONTROLLER"

- Real time operating system
- Network connection for visualization PC

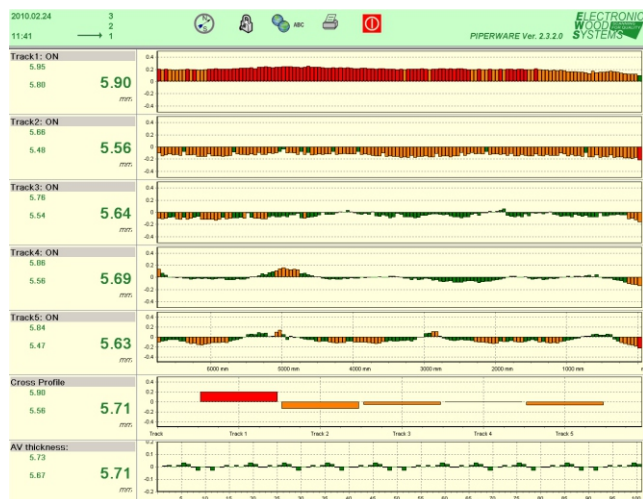
Options

- Connection to PLC
- Extendable to blow detection
- Integration of board scale to allow a density evaluation
- “Online-Calibration” by separate “Reference Track” located outside of the production line.

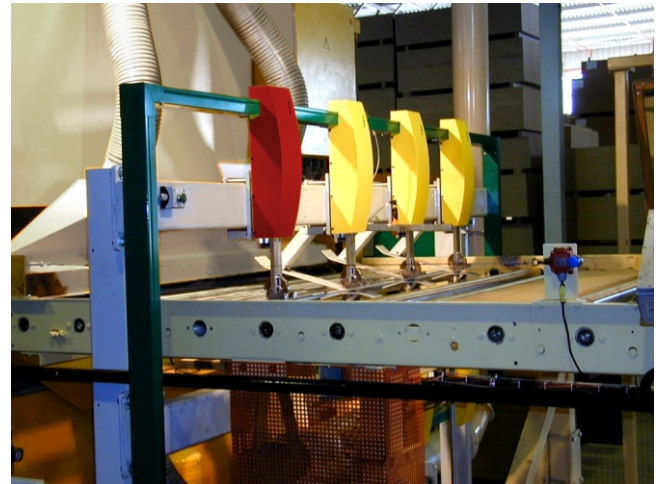
Recommended for endless production

Visualization

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



1. Thickness measuring track (example shows five tracks)
2. Thickness profile across production
3. Average thickness (each bar shows one panel)



“Reference-Track” for “Online-Calibration”

Technical Data

Technology: contact:
(internal non-contact)

Guarantee: Lifetime guarantee on linear sensors

Measuring resolution: 0.01mm [0.0004"]
(per measuring track)

Max. production speed: 3.5m/s [0.1ft/s]

Visualization Software

- Single opening presses
- Multi opening presses
- Continuous presses
- Sanding lines

Remote control

Technical assistance is available via "EWS Online Support".

