NO CONTACT THICKNESS METER

LASERTHICK 100

TO MEASURE BOARD THICKNESS AND WEIGHT REAL TIME

BEST IN CLASS FOR:

WOOD BASED PANELS:
PB/SPB
OSB/LSB/FOSB
MDF/HDF
PLYWOOD
LVL

LASERTHICK 100 is particularly useful for measuring board thickness in a continuous work process where, due to the very nature of the process, a contact system would not be suitable (low density boards or surfaces which are particularly delicate). The system consists of one or more steel or aluminium beams. The fully detachable structure installs around the board roller/belt conveyor, and comes complete with the electrical and pneumatic plant. An electric box housing the microprocessor is mounted on the side of the structure, whereas the PC, monitor and printer are normally located in the control room. The system is equipped with the necessary hardware for reading board weight taken by a weighing scale, and hence it is possible to display weight as well as thickness, and so calculate board density, matching all the data to the same board which are then displayed graphically.

MAIN FEATURES

• Measurement is not influenced by vibration or board undulation if the sensors are mounted on the top and bottom of the beam (TMLD, differential measurement) • Sensors can be mounted on the top of the beam only (TML option) if the board travels along a belt or if there are no particular problems with vibration • Board thickness measured non-stop • Reliable, complete and accurate measurements with good repeatability • Blowers/sprayers to keep the sensors clean • Side measuring heads can be disabled when producing narrow boards • Electronic weight transducers for the weighing scale easily and rapidly installed on the existing conveyor • Incorporated database to store the measurement reports, for statistical analysis and graph printouts • Numerous 3D and 2D graphs available such as: boards produced, pressings effected, average thickness, weight and density, for error search and forming line control etc.... • Network linking possible with TCP/IP for Siemens S5/S7, Allen-Bradley ControlLogix • Normally installed after single opening, multi-opening or continuous presses.

ADVANTAGES

• Extremely accurate measuring ability • Quick and easy to install • Simple to use • Low maintenance • Auto-tuning thickness calibration system using a set of sample weights designed by IMAL or on the basis of customer requirements • Self-calibrating system for weighing scale (when present).

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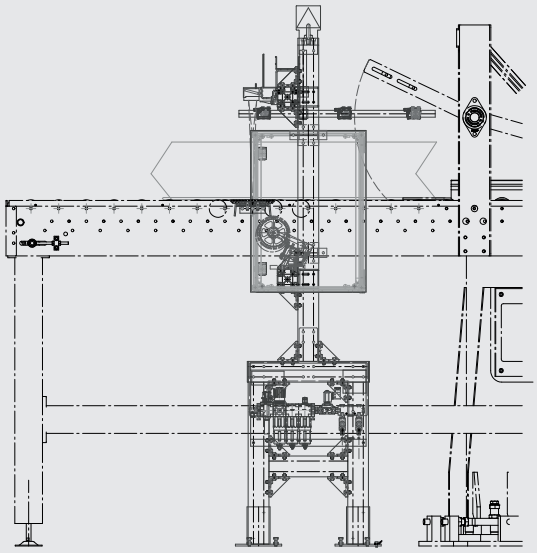
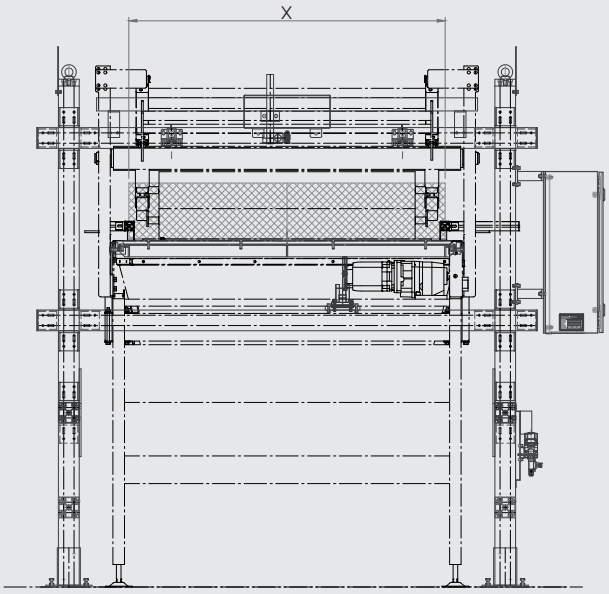
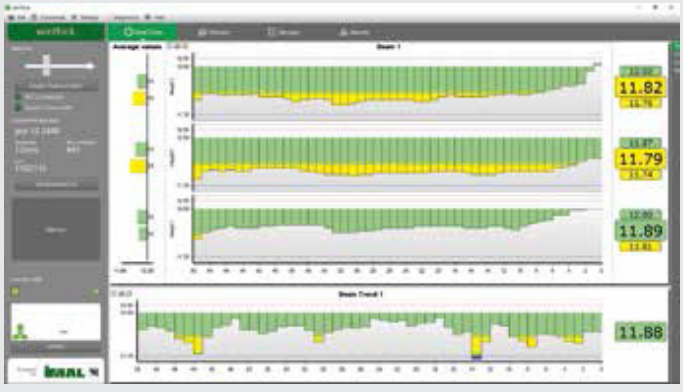
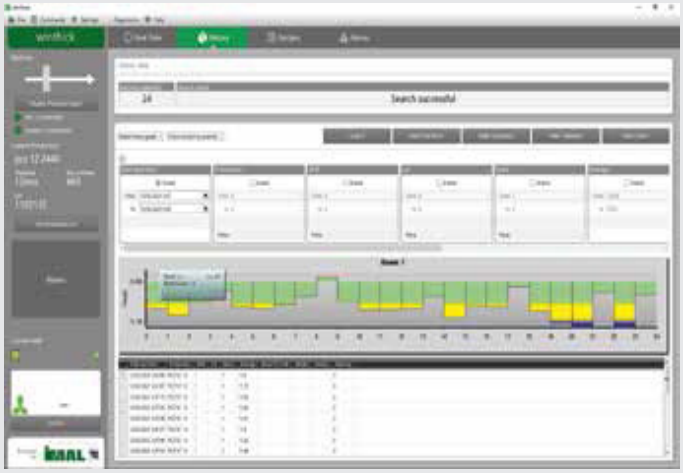




⇐ WORKING LINE





TECHNICAL DATA	
TRANSVERSAL MEASURING POINTS	From 1 to 9
MAX MEASURABLE THICKNESS	up to 2500 mm
MIN RESOLUTION	approx. ±1/10 mm (depending on the range)
MAX LINE SPEED	300 m/min
MAX OPERATING TEMPERATURE OF CUBICLE	50 °C