

ON-LINE DENSITY PROFILE METER

CDP800

NO CONTACT DENSITY PROFILE OF THE PRODUCT - PATENTED



The unit has been designed to perform the on-line density profile analysis on wood based panels while the production process is in progress. The system exploits the theory adopted in X-ray operated systems to conduct a non-destructive test on the board produced. Both the transmitter and X-ray receiver are mounted below the board to prevent them from being affected by any potential overheating and to ensure that transmitter and receiver are perfectly aligned, preventing issues related to thermal dilation.

MAIN FEATURES

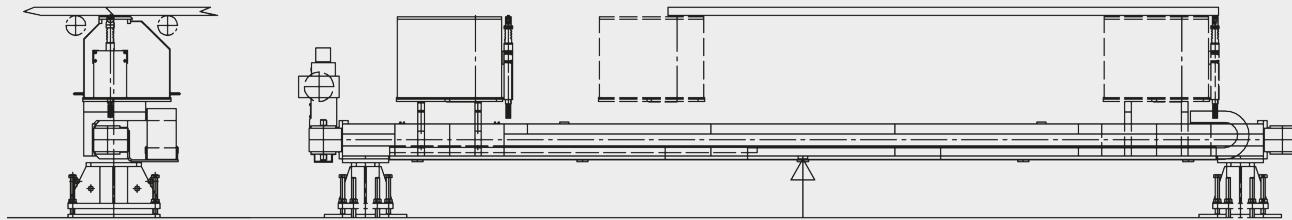
- Compact, easy to position and suitable for installation on all types of lines
- Collimated and suitably screened X-ray beam • Designed to minimize scattered radiation • Extremely safe to use thanks to the application of advanced technology • Non-invasive measurement • Accurate board density profile analysis • On-line measurement and graphic illustration of the density profile • 2D and 3D visualization with the possibility to compare graphs • Maintenance may be carried out on line without interrupting production • Production may be changed without the need to change any of the machine parameters
- Incorporated database for statistical analysis and storing the density profiles • Test results swiftly compared with other laboratory testing equipment
- The device is calibrated automatically, no operation required for calibration
- Network linking possible with different kinds of PLC (Siemens, Allen Bradley, Beckhoff, etc ...) based on different protocols such as TCP/IP, OPC UA, Ethercat, etc .

BEST IN CLASS FOR:

WOOD BASED PANELS:
MDF/HDF

ADVANTAGES

- Real time monitoring of production quality and press performance • Density profile measured on line after multi-opening press line for the first time ever • Extremely economical and accurate mobile analyser
- Special algorithm used, patented application • Reduced start up times • Optimising of the amount of material used in the production process • No isotopes: no radioactive emission without power supply • The entire device is installed below the board
- Fine-tuned and workshop calibrated prior to shipment.



Dimensions will vary on the basis of customer requirements.



TECHNICAL DATA

THICKNESS	3 ÷ 60 mm
MEASURABLE DENSITY	400 ÷ 2000 Kg/m³
MAX MEASURING SPEED (RELATED TO THICKNESS)	0.25 mm/sec
GRAPH RESOLUTION	1/100 mm
MAX BOARD WIDTH	4000 mm