

X-RAY WEIGHT PER AREA ANALYSER

DYNAXSCALE

NO CONTACT ONLINE WEIGHT MEASUREMENT

**BEST IN CLASS FOR:**

WOOD BASED PANELS:

PB/SPB

OSB/LSB/FOSB

MDF/HDF

The system permits a continuous and reliable measurement of the weight per area (kg/m^2) of the board, even at high speeds. The unit is equipped with "n" number of X-ray tubes, designed to ensure that the emission characteristics are suitable for these particular measuring requirements, combined with solid crystal receivers (the "state-of-the-art" in terms of X-ray receivers).

Both devices have been designed to achieve elevated sensitivity with regard to variations in density and good measuring accuracy, without neglecting the prime objective which is that of guaranteeing that they are safe to use.

The X-rays emitted by the transmitters are collimated to prevent any potential scattering (which would generate noise and consequently impact negatively on the measurement) and to minimize X-ray emission in the area surrounding the unit. The receivers are also equipped with collimators, again aimed at limiting the noise due to scattering and hence achieve better measuring accuracy.

The measurements are conducted without any contact with the material that is being analysed. The machine is supplied on the basis of customer specifications depending on the type of board produced, the weight to be measured, and board size. It is possible, via software, to make a full diagnosis of the unit and manage the alarms. When used in conjunction with the thickness gauge, in addition to the weight per area (kg/m^2), each measuring point is shown as well as board weight (kg) and average density (kg/m^3).

MAIN FEATURES

- No contact with the board • Elevated sensitivity and good measuring repeatability
- Greater intrinsic safety with respect to radioactive sources • X-ray beam collimation system to reduce radiation emission
- System can be customised to customer specifications • Cooling and drying systems to stabilize the signals.



TECHNICAL DATA

MAX BOARD WIDTH	4000 mm
MAX BOARD THICKNESS	45 mm
MAX PRODUCTION SPEED	3000 mm/s
MEASURING RANGE	2 - 40 kg/m ²
ACCURACY	± 0.5%
MAX NUMBER OF MEASURING POINTS	7