The IBX700 laboratory testing machine has been designed to test the quality and mechanical characteristics of wood-based panels (particleboard, MDF, OSB) in compliance with today’s standards (European, North American, and others upon request) and to then process the results obtained. The instrument combines the laboratory tests for the mechanical properties with an analysis of the density profile without any contact between measuring instrument and product: the X-ray assembly basically consists of an X-ray generator and a sensor to pick up the rays, between which the sample is placed for the density profile analysis. Additional accessories may be supplied upon customer request.

**TESTS PERFORMED**
- X-ray density profile
- Dimensions (EN 325)
- Density (EN 323)
- Tensile strength (EN319)
- Surface soundness (EN311)
- Screw holding (EN320)
- Bending strength and modulus of elasticity (EN310).

**OTHER TESTS WHICH ARE POSSIBLE IN CONJUNCTION WITH OTHER EQUIPMENT**
- Swelling and absorption (EN317)
- Cyclic test in wet conditions (EN321)
- Moisture content (EN322)
- Boil test (EN1087)
- Formaldehyde content (EN120)
- Surface absorption (EN382)
- Dimensional changes according to humidity (EN318)
- PB, MDF and OSB moisture values
- Particle / fiber screening test
- Sand content
- Hardness.
The operator can programme and carry out the tests which need to be done to control the quality of the board produced with simple operations. The user interface has been developed in Windows, and this allows the user to unite top level graphics with the most modern software technology for filing data and the subsequent data search. All the data are stored in an ample, compatible Access database, from where they may be exported to other applications, like Excel for example, and/or printed (in graph form and/or as a numerical report).

IBX700 can import data from AUTOLAB and DPX.