BOARD PROPERTY TESTER

IB800 – IBX800 - LABLOCK

TO CARRY OUT LABORATORY TESTS FOR BOARD QUALITY CONTROL

The IB800 laboratory testing machine has been designed to test the quality and mechanical characteristics of wood-based panels (particleboard, MDF, OSB, plywood and pallet blocks) and to then process the results obtained. The IB800 combines simplicity of use with safe and reliable operation thanks to a microprocessor which controls the data measurement process and file management. It comes complete with a set of accessories to conduct all the tests in full compliance with today's standards (European standards, North American standards and others upon request).

TESTS PERFORMED IN COMPLIANCE WITH EN EUROPEAN STANDARDS

• Dimensions (EN 325) • Density (EN 323) • Tensile strength (EN319) • Surface soundness (EN311) • Screw holding (EN320) • Bending strength and Modulus of Elasticity (EN310).

OTHER TESTS FOR WHICH IT IS POSSIBLE TO COLLECT AND STORE DATA IN THE IB800 DATABASE, IN CONJUNCTION WITH OTHER EQUIPMENT:

• Swelling and absorption (EN317) • Cyclic test in wet conditions (EN321) • Moisture content (EN322) • Boil test (EN1087-1) • Formaldehyde content (EN ISO 12460-5 / 12460-3) • Surface absorption (EN382) • Dimensional changes according to humidity (EN318) • PB, MDF and OSB moisture values • Particle / fiber screening test • Sand content • Hardness.

BEST IN CLASS FOR:

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

PRESSED WOOD PACKAGING:
PALLET BLOCKS

It is possible to supply, upon request, the apparatus required for carrying out other EN tests (such as the EN314-1 for plywood for example) or tests in compliance with ASTM, NZS, JIS standards. Apparatus may also be supplied for some particular tests which, although they are not standard, are nevertheless required by some board manufacturers.

IBX800

The IBX800 version is available which is equipped with a device to measure density profile as well. The X-ray assembly consists essentially of an X-ray source and a receiver between which the sample is placed for the density profile analysis. The density profile sample-holder can hold several samples at the same time which are separated by spacers that come with the supply: the unit scans each sample automatically, hence facilitating the task of the operator.

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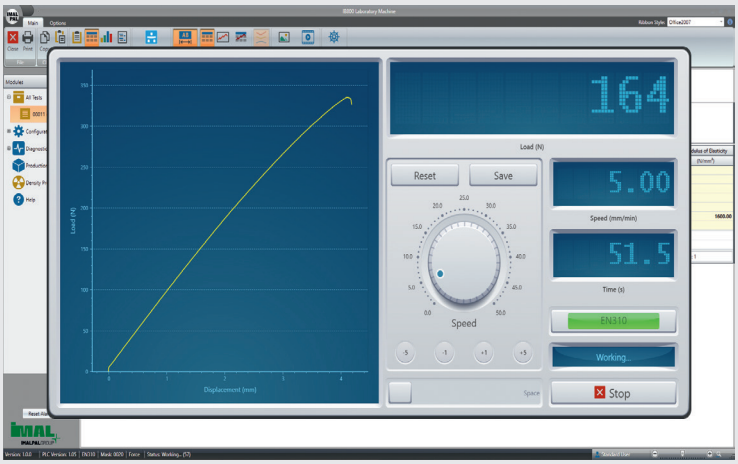
The operator can programme and carry out the tests which need to be conducted to control the quality of the board produced with simple operations. The user interface combines top level graphics with the most modern software technology for filing data and the subsequent data search. All the data are stored in an SQL server 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). It is possible to connect the database up to the plant network to share all the test results. The software has features that will help the operator to carry out the tests, such as for example a photograph showing which tools to use for a particular test and a short video tutorial.

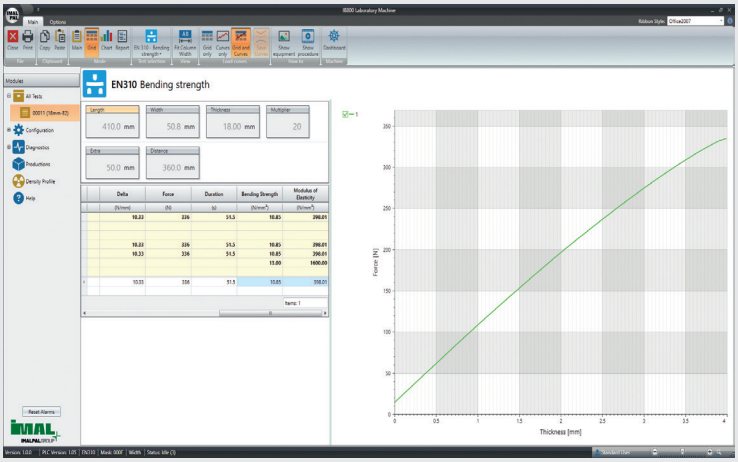
A QR code reader may be installed as an optional for the automatic identification of samples prepared by the IMAL SMC200, to save time and avoid human error.

IB800 can import data from the DPX400 and DPX400-LTE density profile meters.

TEST IN PROGRESS



TEST REPORT



LABLOCK

The IB800 LABLOCK option is also available to carry out withdrawal and head pull-through resistance of pallet nails and staples (EN 12777-2) and Resistance of pallet joints (EN 12777-3) on pallet blocks.

Equipment to carry out the principal tests required by the CHEP standards (Chep TS-WP-BLOCK tine compression, Chep TS-WP-BLOCK nail insertion, Chep TS-WP-BLOCK nail pull/retention, Chep TS-WP-BLOCK tensile strength) may also be supplied upon request.

OPZIONE LABLOCK - LABLOCK OPTION