

Testing, Experimentation and Quality Control Laboratory

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Dynamometer high performance MLS

Data Sheet



INSTRUMENT DESCRIPTION

Semiautomatic laboratory instrument for the determination of the breaking load, breaking strength and modulus of rupture, equipped with an integrated support base that does not need a support table.

Equipped with a plc touch screen through which the load is activated both in automatic and in manual mode; electronically controlled increase load as required by the Standards UNI EN ISO 10545-4, ASTM C648.

Basic support rods moved by mechanical system, with both symmetrical and asymmetrical positioning with respect to the upper loading rod.

Magnetized rod system; the magnetized loading rod allows a correct distribution of the load on the surface of the sample as required by the Standard.

The instrument **can also be equipped** with an

integrated roller conveyor for easier positioning of the material without lifting of the material by the operator; external trolley/roller unit also possible

APPLICABLE STANDARD

UNI EN ISO 10545-4, SASO ISO 10545-4, GSO ISO 10545-4, NF EN ISO 10545-4, Annexe 4 Cahier CSTB 3778_V6 Juillet 2024, Annexe 12 Cahier CSTB 3778_V6 Juillet 2024, ASTM C648, EN 1339

TECHNICAL FEATURES

- Possibility to test samples up to dimensions 1200x1200 mm
- Load cells from 5000 Kg
- Plc able to provide breaking load, flexural strength, modulus of rupture and arrow of curvature of the sample in continuous during the test and at breaking point
- Possibility of memorizing the basic setting parameters of the samples
- Programmable loading speed
- USB port for exporting data test
- Magnetized rubberized rods easy to remove and replace with, non-rubberize rods (for test EN 1339)
- Plc and electronics in a case simple to be removed from the instrument for maintenance / software updates without having to move the instrument.
- Almost complete protection system opening to facilitate sample placement
- Height of the base suitable to facilitate the positioning of the samples reducing their lifting

OPTIONAL

- Test kit for test ASTM C648
- Test kit for Static Load EN 12825
- Kit to execute ISO 10545-4, SASO ISO 10545-4 and GSO ISO 10545-4 for formats smaller than 15x15 cm (up to 9,6x9,6 cm)
- Possibility of external trolley / roller conveyor and integrated roller conveyor for easier positioning of the material without lifting it by the operator (minimum size measurable without disassembling the roller conveyor 50x50 cm)

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TECHNICAL SPECIFICATIONS

Supply voltage	230 V / 110 V
Power frequency	50/60Hz
Power rating	0,4 kW
Dimensions	165 x 135 x 160 cm (L x l x H)
Weight	800 kg

OPTIONAL ROLLER DEVICE



The instrument can be equipped with a sample loading system by means of a roller conveyor in order to facilitate the positioning of test material (in this way it can be carried out by a single operator).

The external trolley (not part of the instrument) has two positioning devices that allow it to be inserted centrally with respect to the instrument, being fixed between two cylinders placed under the loading surface; once positioned, it is possible to lock the wheels by means of their brakes so that it does not move or shift during material loading operations.

With this device, the sample can be slid to its correct position resting on the stops arranged along the knives, without rubbing the rubber of the rods themselves