



DESCRIPTION

Tabletop tool, made of powder-coated steel, with precision electronics for the determination of the bending breaking load (max load) on ceramic or similar specimens.

Semi-automatic type is equipped with a steel top on which are placed two oscillating supports (knives), moved and adjusted manually and individually, which in turn welcome the test piece to be tested.

The adjustment is made by means of millimeter reference indexes.

The steel table is automatically raised, with electro-mechanical operation, at a speed called approach.

This approach speed is automatically switched by the control unit into working speed as required by regulations.

The knife placed in the upper part presses on the audition until it is broken.

The unit reads the transmitted data, stores the value of the data at the time of the break of the sample to be tested and processes them. In the same way a sensor reads the deformation of the specimen when it is subjected to the pressing force and transmits the values it detects, which are stored on a USB key .

This key, once the test is finished, must be inserted into a computer equipped with a special software (included).

By means of this software the data are processed according to the formula of YOUNG and through this result you can build the graph related to the elasticity found of the tested tile, which will be stored later.

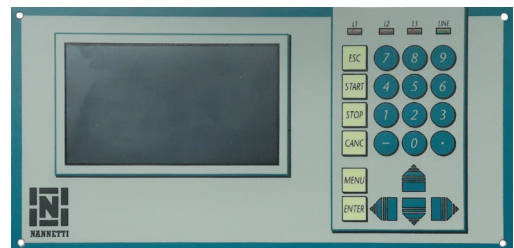
With this instrument it is possible to determine the bending strength, the fracture module, and the bending arrow of the sample by operating according to the Norms:

UNI EN ISO 10545-4

TECHNICAL FEATURES

- load cell: 550 kg (accuracy 10 gr. full scale)
- knives set Ø15 mm for testing on samples max 60x210 mm
- knives set Ø30 mm for testing samples max 300x300 mm
- **testable thickness range from 5 mm to 15 mm¹**
- electro-mechanical drive
- double top knife speed (feed and work)
- programmable applied load
- programming functions and test results managed and displayed on LCD screen
- input port for programming also by means of an external keyboard (not included)
- automatic storage of data processed for the calculation of the YOUNG module ²
- storage (10 slots) of the basic parameters of the samples to be tested³
- adjustable articulated feet to perfectly level the instrument

ELECTRONIC CONTROL UNIT



The test management is entrusted to an electronic control unit, which will give the final result, as a rupture module, expressed both in Newton/mm² and in Kg/cm² and as breaking load expressed both in Newton and in Kg.



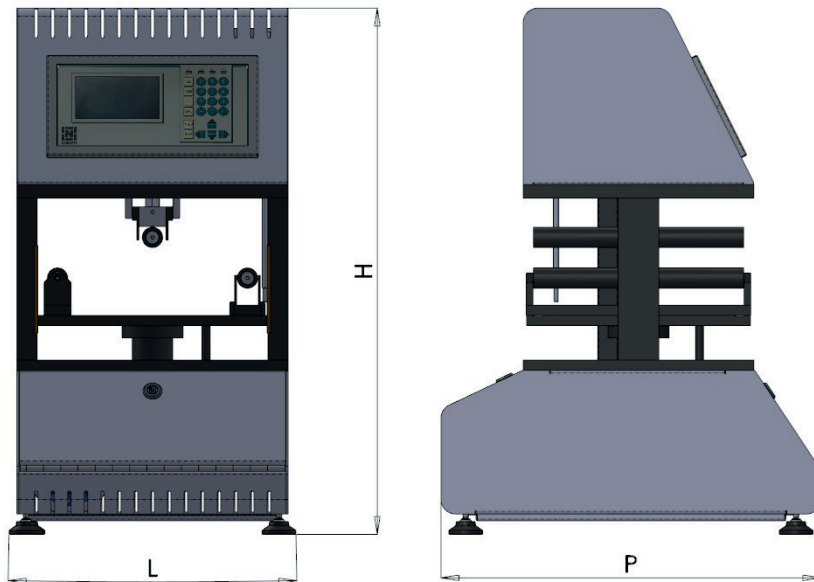
¹ in relation to the size of the format

² given this very important as it allows to optimize the formulation of the mixtures in the production of tiles. It's proven in fact that not always a tile with a value of Low mechanical resistance breaks down more easily than one with higher mechanical strength; this precisely in function of its elasticity.

³ so, making routine control tests, it is enough to make the recall from the memory of the format of which the test will be made, without having to reset the data necessary for the calculation.

Procedure to derive Young's module

- insert a USB stick in the appropriate port on the instrument
- start the test
- Automatically the control unit saves the necessary data on the usb stick
- Remove the USB stick
- Insert the USB stick in a pc where the microsoft excel program is installed
- Double click on the file generated on the usb stick
- You get a file containing a table from which manually, always in EXCEL, you have to derive the relative chart



	STRENGTH (MAX)	SAMPLE SIZE (MAX)	EXTERNAL DIMENSIONS	WEIGHT	POWER	VOLT	HERTZ
	[kG]	[mm]	L x P x H [mm]	[kG]	[kW]	[V]	[Hz]
CC 96-S-2019	550	300x300	400 x 580 x 770	110	0,4	230	50/60

(all data are non-binding, the manufacturer reserves the right to modify them)