

CEMENT & MORTAR

Automatic Cement Compression & Flexure Testing Machines



Capacity up to 50 kN for flexural and up to 500 kN for compression strength testing of cements, mortars and related (gypsum, lime, etc.).

- Compressive strength testing according to ISO 679, EN 196-1, EN 1015-11, ASTM C109, ASTM C349 and so on.
- Flexural strength testing according ISO 679, EN 196-1, EN 1015-11, ASTM C348 an so on.
- Elasticity tests, calculation of deformation, Young's modulus and Poisson ratio, etc.

Two Independent frame system for flexural and compression tests, which allows maximum performance in laboratories with high workloads.

Small dimensions, his optimized design allows better use of the available space in your laboratory

Wide work surface of high quality stainless steel, to place probes and work items.

Easy access to all interior elements (hydraulic system, electrical panel, etc.) to facilitate maintenance (oil and filter changes, mechanical adjustments, etc.)

Fast removal of broken specimens through collection tray located under the lower compression plate, with direct drop of the debris to a carrier wagon through a hole.

Features

- Class 0.5 according to ISO EN 7500-1, from 1 to 100 % .
- Accomplishes with all ASTM E4 requirements
- Two independent test frameworks.
- Testing frame, high stiffness , 200, 300, 400 and 500 kN for compression tests .
- Testing frame, high stiffness, to 10, 15 , 20, 25, 30 and 50 kN for flexural or compression tests at low loads.
- The two frames are attached to the same frame board using grounded chromed steel columns. The frame is closed by means of a steel beam.
- Force measuring using strain-gauge load-cell, with high accuracy and repeatability , in each test frame.
- Single scale (autoscale) from 1 to 100% of the capacity of each load cell.

System of load application control

Controlling the application of the load is carried out accurately by a PID control mechanism which calculates the deviation between the measured value and the setpoint value, applying the correction necessary to adjust the process .

The cycle of reading, comparing and correcting is called control loop.

The control is performed automatically by a last generation, high performance, microprocessor electronic control module, model Doli EDCi with the following characteristics

- Frequency control loop closure : up to 2.5 kHz (2500 times per second)
- Resolution of 20,000,000 steps (real) on each channel.
- Sampling frequency up to 2.5 kHz per channel.
- All channels are synchronous and simultaneous.
- 10.4-inch touch screen interface with advanced Innovotest® testing software.

Related Standards

EN 196-1 , EN 1015-11 , ISO 679, ASTM C348, ASTM C349, ASTM C109, ASTM C133

You May Also Be Interested In



Cement Flow Table

PCE-310



**Three Gang Mould,
40.1x40x160mm**

PCE-171



**Electronic Blaine Air
Permeability Apparatus**

PCE-153

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