

Product Name :
Flexure Testing Machine Digital**Product Code :**
CON-0003**Description :**

Flexure Testing Machine Digital

Technical Specification :

Automatic range of 100 kN and 200 kN capacity flexure testing machines have been designed to meet the need for reliable and consistent testing of flexural test on standard concrete beams, transverse test on kerbs and flagstones, indirect tensile tests on concrete and interlocking pavers.

All Test machines feature the complete automatic test cycle with a closed loop digital readout.

Once the specimen parameter have been introduced, it is sufficient to press the START button to complete the test.

The key characteristics of the flexural test machines are:

Automatic test cycle with standard Rapid Approach

Graphical – LCD Data Acquisition and Control System

Class 1 starting from % 10 of the full range

Ready Stress Calculation for the standards of EN 12390-5 , EN 12390-6, EN 1338 ,EN 1340, ASTM C78, C293, C496

Menu Driven Software for easy operation

Load vs time plot and instantaneous load rate displayed

Accurate load rate control within ± 5 from 1 kN/sec to 20 kN /sec

SI, Metric, Imperial Units

Data storage up to 256 tests

Flexure Testing Machine

Frame:

The versatile load frame is designed for minimum deflection at maximum load resulting in very high accuracy.

The load frame is welded steel fabrication carrying the ram fitted to the upper crosshead.
All frames have a single acting down-stroking ram with over travel switch protection to shut the machine down should maximum ram travel be reached.
The return of the ram is done by dead weight to get maximum accuracy on the load measurement.
The load cell is used for load measurements.
All flexural frames have been designed to accept all the accessories for flexural and transverse tests.
Both frames can be connected to any Test compression machine as a second frame.
The main characteristics are:
Two capacity High stability welded assembly
Piston return by dead weight
75 and 100 mm piston stroke with safety limit switch
Can accept all required accessories for mentioned standards
Power Pack:
The dual stage power pack is designed to supply required oil to the frames.
On the dual stage pump high delivery low pressure pump is used for rapid approach and low delivery high pressure radial piston pump is used for test execution.
On all power packs maximum pressure valve is used to avoid machine overloading.
Very silent power pack can load a specimen between 1 kN/ sec to 20 kN/sec.
The main characteristics are :
Dual stage pump
750 W power
25 litre oil capacity
60-100 mm/min fast approach speed
Safety Features:
All Test International compression machines are fitted with:
Max pressure valve to avoid machine overloading
Ram travel switch to prevent excessive piston travel
Front and rear gates with transparent durable flexi-glass

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