



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

FLEXURAL STRENGTH TESTING MACHINE - DIGITAL



Compliance with following International Standards:

As per IS 516 (Part 1/Sec 1) : 2021, IS:9399-1979 (R.A.2013), BS: 1881, ASTM C78

Construction Details:

1. 100 kN Capacity flexural machine with Digital Load Indicator cum controller
2. The machine consists of a motorized load frame.
3. The lower platen has two rollers, the distance between which is adjustable.
4. For 150 mm x 150 mm x 700 mm beam, the center distance between the rollers is 600 mm, while it is 400 mm for beams of size 100 mm x 100 mm x 500 mm.
5. The upper platen has also a pair of rollers whose distance is adjustable.
6. The distance between upper roller is 200 mm center to center, for 150 mm x 150 mm x 700 mm size beam and 133 mm for 100 mm x 100 mm x 500 mm size beam.
7. Microprocessor Based Digital Load Indicator to indicate applied load is fitted in the load frame.
8. A separate electrically pumping unit housed in a cabinet is also supplied.
9. On/Off switch and a slow/fast lever to control rate of loading are fitted on the front panel of the pumping unit.
10. A micro switch and relay fitted inside the pressure gauge protects the unit from over loading.

Salient Features of Digital Indicator:

1. Direct reading of total applied load in KN
2. Direct reading of compressive strength in kg/cm²
3. Direct reading of Flexural strength in N/mm² - no calculation is required
4. Peak hold facility
5. In built memory for last 20 readings.
6. Facility to measure rate of loading in kg/cm² on press of button.
7. RS 232 interface (Optional - at extra cost)
8. Direct analytical reports on computer (Optional software)
9. Auto generation of load/time graph.(Optional software)

10. Stand by Analog Pressure Gauge for emergency use at extra cost
11. Automatic internal calibration facility
12. Overload safety cut out is provided.
13. Password protected Calibration to prevent unauthorized manipulation

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