



Suitable to test as IS:9399. Used for the determination of modulus of rupture of concrete, that is, 15 x 15 x 70 cm or 10 x 10 x 50 cm beams by third point loading method, Complete with motorized pumping unit, Digital Load indicator, To work on 220 Volts AC single Phase

**Compliance with following International Standards: As per IS: 516, IS: 9399, BS: 1881, ASTM C78**

**Construction Details:**

- 100 kN Capacity flexural machine with Digital Load Indicator cum controller
- The machine consists of a motorized load frame.
- The lower platen has two rollers, the distance between which is adjustable.
- 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.

- The upper platen has also a pair of rollers whose distance is adjustable.
- 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.
- Microprocessor Based Digital Load Indicator to indicate applied load is fitted in the load frame.
- A separate electrically pumping unit housed in a cabinet is also supplied.
- On/Off switch and a slow/fast lever to control rate of loading are fitted on the front panel of the pumping unit.
- A micro switch and relay fitted inside the pressure gauge protects the unit from over loading.

**Salient Features of Digital Indicator:**

- Direct reading of total applied load in KN
- Direct reading of compressive strength in kg/cm<sup>2</sup>
- Direct reading of Flexural strength in N/mm<sup>2</sup> - no calculation is required
- Peak hold facility
- In built memory for last 20 readings.
- Facility to measure rate of loading in kg/cm<sup>2</sup> on press of button.
- RS 232 interface (Optional - at extra cost)
- Direct analytical reports on computer (Optional software)
- Auto generation of load/time graph. (Optional software)
- Stand by Analog Pressure Gauge for emergency use at extra cost
- Automatic internal calibration facility
- Overload safety cut out is provided.
- Password protected Calibration to prevent unauthorized manipulation

**Technical Specifications:**

Type of Pumping	: Electrical
Loading Range	: 100 KN
Least Count	: 0.5 KN
Overall Dimensions	: 430 X 760 X 1150 (L X W X D) mm
Net weight (in kg)	: 215 kg

**Optional Accessories At Extra Cost:**

- 1) PC link software
- 2) Wireless PC link software
- 3) Standby pressure gauge

Note: Specifications are subject to change.