



Compliance with following International Standards: IS : 14858 - 2000 and IS 516

Introduction:

The digital compression testing machine has been designed to meet the need for a simple, economic and reliable means to test concrete for its compressive strength. The design expressive of simplicity, both of construction and operation, makes the machine easy to use and maintain. The digital machines are provided with a MANUAL pace rate controller, to enable maintain a constant rate of loading.

Salient Features

- 4 line Alphanumeric display with backlite, displaying - Actual Load, Peak load, Rate of loading and Calculated load in N/mm²
- Four column high stiffness and high stability fully welded construction of the load frame.
- Direct reading of compressive strength in N/mm² -No calculation required.
- Peak hold facility.
- Can manually control pace rate from 1 KN/Sec to 9 KN/sec.
- Pace rate indication in KN/Sec.
- Bar Graph indication to control the pace rate
- Built in memory for last 10 readings
- Automatic internal calibration(without Proving ring)
- Safety cut out for overload and electrical short circuit.
- Safety door on the front side for operator safety.
- Compact Pumping unit with manually variable rate of loading.

Note: Specifications are subject to change.

Technical Specification	
Capacity	1000 kn
Platen size in mm	200 mm dia
Ram Dia in mm	165 mm
Ram Travel in mm	50 mm
Vertical daylight in mm	300 mm
Horizontal daylight in mm	300 mm
Weight approx in kg	370 Kg
Platen hardness	More than 550 Vickers hardness
Electric Motor	1 HP, Single Phase
Operation on	220 V AC Single Phase.
Least count	0.1 KN
Pace rate control	Manual control from 1 KN/Sec to 9 KN/sec
Overall Dimensions	690 X 1425 X 1150 (L X W X D) mm

Scope of supply:

- High strength rigid structure (Loading Frame)
- Pumping unit (Oil source cabinet)
- Digital Load indicator
- High precision pressure transmitter
- Pair of compression platens
- High pressure hose pipe
- With PC interface and Software

Salient features of data manager PC software:

- Two way communication i.e machine operates from computer and from the touch screen controller both (Stat, stop, save data and save graph)
- Results directly saved in excel file
- Graph also saved in excel file
- Capable to save customer name, other details of customer, ageing of cube moulds, identification mark of the cube mould, date and time of testing
- Capable to print direct report from the computer
- Capable to select different test parameters like pace rate, sample size and area from the computer (software)

Note :

Use of 3 KVA three phase servo controlled stabilizer is essential to protect the machine against voltage fluctuations. Warranty voids in case of any damage due to power fluctuation.

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