

# Compliance Standards : IS:14858 - 2000 and IS 516

Manufactured as per International design, Plate model for highest mechanical stability, accurate centering of load and excellent repeatability. Manual pace rate control, auto stop and manual release on failure of test specimen. Reading of Load in KN and N/mm2 with auto calculation. with Pace Rate indication. Manual Pace rate Control will have certain limitations. CTM with Automatic Pace rate control is recommended for accurate Pace rate Setting.

# 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**

- 2 line Alphanumeric display with backlite, displaying Actual Load / Peak load, Rate of loading and Calculated load in N/mm<sup>2</sup> (as soon as sample fails)
- 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 20 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.

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Capacity1200 knPlaten size in mm265 mm diaRam Dia in mm165 mmRam Travelin mm300 mmVertical daylight in mm300 mmWeight approx in kg-Platen hardnessMore than 550 Vickers hardnessElectric Motor1 HP, Single PhaseOperation on220 VAC Single Phase.Least count0.1 KN or betterPace rate controlManual control from 1 KN/Sec to 20 KN/secPump SpeedDual speedMotorInduction MotorRelaze valve operationRequiredAccuracy± 1%Release valve operationRequiredActors op after failure of specimenAvailable, machine stops after completion of test AutoAuto stop after failure of specimenAvailablePace rate or Rate of Loading indicationAvailablePace Rate or Coading indication3 channel operation possible, flexural and compression frame can be attachedInduction and ControlDigital membrane key pad controllerSaving of recordsPossible-10 readingPen drive slotOptional, saves reading in excel format, Record date- time, rs on and Peak loadPendrive slotOptional, saves reading in excel format, Record date- time, rs on and Peak loadPendrive slotNot ApplicablePrinter w/o computery)VailablePendrive slotNot Avai	Technical Specification	
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## **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

### Salient features of data manager PC software (Optional At Extra Cost.)

- 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.

Note: Specifications are subject to change.



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