



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/mm² (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.

| Technical Specification | |
|---|---|
| Capacity | 2000 kn |
| Platen size in mm | 300 mm dia |
| Ram Dia in mm | 205 mm |
| Ram Travel in mm | 50 mm |
| Vertical daylight in mm | 350 mm |
| Horizontal daylight in mm | 350 mm |
| Weight approx in kg | 695 Kg Approx |
| 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 or better |
| Pace rate control | Manual control from 1 KN/Sec to 20 KN/sec |
| Pumping | Motorized |
| Pump Speed | Dual speed |
| Motor | Induction Motor |
| Reading | Digital |
| Accuracy | ± 1% |
| Release valve operation | Required |
| Auto stop after failure of specimen | Available, machine stops after completion of test Auto Release of Pressure after specimen failure Not Available, Need to release pressure manually after the completion of test |
| Calculation of result | Automatic |
| Holding of Max. Load | Available |
| Pace Rate or Rate of Loading indication | Available |
| Operator skill to control Pace Rate | Required and very difficult to maintain |
| Bar Graph | Available |
| Multi Channel operation | 3 channel operation possible, flexural and compression frame can be attached |
| Load indication and Control | Digital membrane key pad controller |
| Saving of records | Possible-10 reading |
| Pen drive slot | Optional, saves reading in excel format, Record date-time, Sr no and Peak load |
| Real time graph | Not Applicable |
| Printer interface (Direct connectivity to printer w/o computer) | Available at extra cost |
| Computer operation software and data Acquisition software | Available at extra cost |
| Displacement controlled operation | Not Available |
| Modulus of Elasticity Calculation | Not Available |
| Flexural attachment | Possible, all calculations will be made automatically |
| Splitting Tensile Test | Possible but manual calculation required |
| LAN Connectivity | Not Available |
| Auto internal Calibration without proving ring | Available |
| Piston over travel safety cut off | Available at extra cost |
| Over load safety cut off | Available |
| Shot circuit protection | Available |
| Overall Dimensions | 790 X 1020 X 1100 (L X W X D) mm |

Note: Specifications are subject to change.



Order Code - MT014
Compression Testing Machine - Digital -
Manual Pace Control - (IS 14858) - 2000 KN

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

Optional Accessories at extra cost:

- PC / Printer Interface with software
- Flexural Test attachment
- Split tensile test attachment
- Voltage Stabilizer

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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