Product Name : Compression Testing Machine Digital Manual Pace Control 1000 KN	**Product Code :** CHINAELABC2650081

Description :

Compression Testing Machine Digital Manual Pace Control 1000 KN

Technical Specification :

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.

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)

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 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

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