

**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/mm<sup>2</sup> 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/mm<sup>2</sup> No calculation required.

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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:  $\pm 1\%$

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

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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



**Engineering Lab China**