

Product Name :
Compression Testing Machine Digital Economy 1000 KN

Product Code :
CHINAELABC2650082



Description :

Compression Testing Machine Digital Economy 1000 KN

Technical Specification :

The loading unit consists of a cross-head and base with solid channel supports connecting the base and cross-head firmly.

Resolution 0.1 KN. Manual Pace rate control and Manual release of pressure.

Reading in KN with peak hold and reset facility. Manual Calculation of strength.

Manual Pace rate Control will have certain limitations.

CTM with Automatic Pace rate control is recommended for accurate Pace rate Setting.

The digital compression testing machine has been designed to meet the need for a simple and economic means to test concrete for its compressive strength.

Loading Unit

The loading unit consists of a cross-head and base with solid channel supports connecting the base and cross-head firmly.

The Hydraulic jack is fixed to the base.

The platen of the machine are hardened ground and polished.

The upper platen is provided with self-aligning action.

To facilitate testing of various size specimens. Platen is adjustable with adjusting screw.

The machine is equipped with Manual pace rate controller.

The pace rate of the machine is manually controllable with slow / fast Oil pressure valve.

The Complete unit comprises a Loading Unit which is of Solid channel welded construction, having a cross-head

with a spherical seated platen.

The lower platen is attached to the top of the piston. The Loading capacity is of 1000 KN, Cubes up to 150 mm can be tested.

The pump facilitates rapid approach of the platens for daylight closure and also provides Manual control over the application of load.

Maximum load is held and retained for approx. 15 min, unless cancelled, using the panel mounted reset switch.

Type of Pumping Electrical

Loading Range: 1000 KN

Least count: 0.1 KN or better

Ram dia: 165 mm

Ram Travel in mm: 50 mm

Platen dia: 200 mm

Horizontal clearance: 250 mm

Vertical daylight in mm: 300 mm

Overload Protection: Yes

Sort circuit protection: Yes

Pump Speed: Dual speed

Motor: Induction Motor

Reading: Digital

Accuracy: $\pm 2\%$

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

Holding of Max.Load: Available

Pace Rate or Rate of Loading indication: Not Available

Operator skill to control Pace Rate: Not Applicable

Bar Graph: Not Available

Multi Channel operation Not Available

Load indication and Control: Digital membrane key pad controller

Saving of records: Not Available

Pen drive slot: Optional

Real time graph: Not Applicable

Printer interface (Direct connectivity: Not Applicable to printer w/o computer)

Computer operation software and: Not Applicable data Acquisition software

Displacement controlled operation: Not Available

Modulus of Elasticity Calculation: Not Available

Flexural attachment: Possible, all calculations will be made manually

Splitting Tensile Test: Possible but manual calculation required

LAN Connectivity: Not Available

Auto internal Calibration without: Not Available

proving ring

Piston over travel safety cut off: Not Available

Over load safety cut off: Available

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