



Low cost Model for basic test. 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.

Note: Specifications are subject to change.

Technical Specification	
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	± 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 to printer w/o computer)	Not Applicable
Computer operation software and data Acquisition software	Not Applicable
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 proving ring	Not Available
Piston over travel safety cut off	Not Available
Over load safety cut off	Available
Overall Dimensions	450 X 410 X 1000 (L X W X D) mm
Net weight (in kg)	350 kg

Note :

Use of 3 KVA Three Phase Servo controlled stabilizer is essential to protect the machine against voltage fluctuations. Warranty void in case of any damage due to power fluctuations.

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