

AUTOMATIC COMPRESSION TESTING MACHINE

Confirms to IS 516; IS 14858; EN 12390-3; EN 12390-4; ASTM C39;

SALIENT FEATURES :

- ✦ Automatic Pace Rate Controllable from 0.5 to 10kN/Sec.
- ✦ Least Count of 0.01kN throughout the range.
- ✦ Load Vs Time Graph on Display.
- ✦ 10 Points Calibration for accurate linearity.
- ✦ Calibration Re-restoration Facility through Password.
- ✦ Upper platen is having lubricated ball-socket arrangement for smooth self-alignment.
- ✦ 5.6" TFT LCD Touch screen.
- ✦ Load in Kilo Newton and Ultimate Strength in N/mm².
- ✦ Can store up to 100 Results.
- ✦ RS 232 output for Printer or Data downloading.
- ✦ Quick and Advance Test Modes.
- ✦ Dual Stage Hydraulic Pump.



DISPLAY :

5.6" TFT LCD TOUCH Screen with resolution of 320x234pixel. It displays Pace Rate with Bar Graph, load in Kilo Newton, ultimate strength in N/mm² and Graph of Load Vs Time with Real Time Clock.

LOADING UNIT :

Welded load frame fabricated from Mild Steel Plates. Duly Hard-Chromed Cylinder-Piston are fitted at the bottom of the frame with dust cover. Upper platen with lubricated ball-socket arrangement for smooth self-alignment with specimen and Lower Platen with engraved markings for centering the specimen, are provided with required hardness and flatness. Supplied complete with required spacers to accommodate deferent sizes of specimen.

PUMPING UNIT :

Dual Stage Hydraulic Pump submerged in oil and are housed with stepper motors to control the pace rate and pressure release assembly. It is fitted with Crompton or equivalent motor, works on 230Volts, 50Hz, Single Phase. This dual stage pump is facilitated with high delivery & low pressure pump for faster reduction of vertical daylight to apply the load quickly and also with low delivery & high pressure pump for testing the specimen.

MEMORY :

100 Results can be stored with Date of Casting, Specimen ID, Surface Area, Weight, Batch ID and Concrete Grade along with Ultimate Strength & Pace Rate.

DATA DOWNLOAD :

Provided with RS232 to download the stored data in computer.

SAFETY FEATURE :

Provided with full view thru' plexiglass, front safety door and rear is also covered with transparent thick rubber sheet to save user during specimen blast.
 Incorporated with emergency switch to stop the machine.
 Servo Stabilizer to prevent the machine from voltage fluctuation.
 Piston Travel Limit Switch (Optional)

| PARTICULAR | AIC-CTMFA-P25T | AIC-CTMFA-P50T | AIC-CTMFA-P100T | AIC-CTMFA-P150T | AIC-CTMFA-P200T | AIC-CTMFA-P300T |
|----------------------------|-----------------------|-----------------------|--------------------------|--------------------|--------------------|--------------------|
| CAPACITY | 250kN | 500kN | 1000kN | 1500kN | 2000kN | 3000kN |
| LEAST COUNT | 0.01kN | 0.01kN | 0.01kN | 0.01kN | 0.01kN | 0.01kN |
| RAM DIA | 81mm | 117mm | 165mm | 182mm | 235mm | 260mm |
| PLATENS SIZE (Min) | SQUARE 150Lx150Wmm | SQUARE 165Lx165Wmm | RECTANGLE 250Lx180Wmm | ROUND 230mm Dia | ROUND 280mm Dia | ROUND 280mm Dia |
| VERTICAL CLEARANCE (Min) | 260mm | 275mm | 310mm | 310mm | 340mm | 340mm |
| HORIZONTAL CLEARANCE (Min) | 180mm | 180mm | 200mm | 215mm | 260mm | 340mm |