



## MODULUS OF ELASTICITY FOR ROCK / CONCRETE

COMPRESSION TESTING MACHINE - 500 KN-AUTOMATIC PACE RATE CONTROLLED WITH PC MANAGER SOFTWARE TO DETERMINATION OF POISION RATIO AND MOE

### Compliance With Following International Standards

EN 12390-4, ASTM C39, AASHTO T22, IS : 14858 (2000)

### Automatic Test Execution

Once the machine has been switched on, the specimen positioned and centered, the only required operations are

### Set test parameters - including load rate

- Press the start button
- Tighten the pressure valve
- The machine automatically: starts the rapid approach; switches to the test speed once the specimen comes into contact with the upper platen; automatically stops the motor upon specimen failure
- Release the pressure valve
- The test execution conforming to Standards can be easily proved.
- Working on 240V, 50-60Hz, single phase.
- Dual stage pump assuring fast piston approach and precise test execution
- Test execution conforming to EN 12390-4, ASTM C39, AASHTO T22
- Controllable pace rate from 1 KN/Sec to 10 KN/Sec.
- Auto stop after completion of each test.
- Soft platen-to-specimen contact and smooth load rate control from the very beginning of the ramp
- Supplied complete with 1 displacement sensor
- Displacement range : 0.01 mm to 15 mm
- Least count : 0.01 mm
- Accuracy : 1%
- Graph can be stored in computer and printed from the computer
- Direct report can be generated from the computer
- Software can be connected to any computer with I3 processor and operating system windows 10. Min 4 GB ram and 500 GB hard disk required.
- Displacement sensor can be adjusted as per the size of the sample.
- Rock sample has to be surface grinded.

### Frame

- Four column high stiffness welded frame tested for stability.
- Heavy duty spherical seat , allowing initial free alignment at the initial contact with the specimen and automatic jamming up to the end of test.

#### Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,  
Near Gujarat College, Ellisbridge,  
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Phone : (079) 6621 1234  
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#### Calibration Laboratory:

Survey No. 1098, Nr. Mahakali Temple,  
Opp. Primary School, Village Kubadthal,  
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GST TIN No. : 24AABCE4018L1ZU  
I.T. PAN No. : AABCE 4018L  
IEC No. : 0813026598 Dt. 04/03/2014  
CIN No. : U29199GJ2004PTC045078  
TAN No. : AHME00572F



- Surface hardness of platen is 55 HRC, flatness tolerance 0.03 mm. Traceable certificate of surface hardness available on request.
- Piston travel limit switch (Extra cost)
- Emergency stop button

**Salient fetchers of data manager PC software**

- 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)
- Stress Vs. strain graph
- Directly determination of the poision ratio in software

**NOTE : It is recommended to use the machine with 3 KVA servo stabilizer**

CTM VARIETY: AUTOMATIC PACE RATE CONTROLLED

**Technical Specification**

- Capacity : 500 Kn
- Platen size in mm : 200 mm Dia
- Ram Dia in mm : 120 mm
- Ram Travel in mm : 50 mm
- Vertical daylight in mm : 230 mm
- Horizontal daylight in mm : 230 mm
- Weight approx in kg : 292 Kg.
- Least count : 0.01kN
- Controller : 7" touch screen controller
- Accuracy : 1% or better

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• Pace rate controlling accuracy : 10%

• Least count of displacement : 0.01 mm

• No of LVDT supplied : 1 no

• Accuracy of displacement : 1% or better

**NOTE : It is recommended to use the machine with 3 KVA servo stabilizer**

CTM VARIETY: AUTOMATIC PACE RATE CONTROLLED

#### **Technical Specification**

• Overall Dimensions in Inches (L x :  
W x H)

• Weight (Approx.) : 417 Kgs Approx.

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