



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

FLEXURAL STRENGTH TESTING MACHINE - AUTOMATIC PACE RATE CONTROLLED



Compliance With Following International Standards:

EN 12390-4, ASTM C39, AASHTO T22, IS:9399-1979 (R.A.2013)/IS 516 (Part 1/Sec 1) : 2021

Automatic Test Execution:

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

1. Set test parameters - including load rate:
2. Press the start button
3. Tighten the pressure valve
4. 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
5. Release the pressure valve
6. The test execution conforming to Standards can be easily proved.
7. Working on 240V, 50-60Hz, single phase.
8. Dual stage pump assuring fast piston approach and precise test execution
9. Test execution conforming to EN 12390-4, ASTM C39, AASHTO T22
10. Controllable pace rate from 1 KN/Sec to 10 KN/Sec.
11. Auto stop after completion of each test.
12. Soft platen-to-specimen contact and smooth load rate control from the very beginning of the ramp

Frame:

1. Four column high stiffness welded frame tested for stability.
2. Heavy duty spherical seat , allowing initial free alignment at the initial contact with the specimen and automatic jamming up to the end of test.
3. Surface hardness of platen is 55 HRC, flatness tolerance 0.03 mm. Traceable certificate of surface hardness available on request.

4. Piston travel limit switch (Extra cost)
5. Emergency stop button

Salient fetchers of data manager PC software (Optional at extra cost.):

1. Two way communication i.e machine operates from computer and from the touch screen controller both (Stat, stop, save data and save graph)
2. Results directly saved in excel file
3. Graph also saved in excel file
4. Capable to save customer name, other details of customer, ageing of cube moulds, identification mark of the cube mould, date and time of testing
5. Capable to print direct report from the computer
6. Capable to select different test parameters like pace rate, sample size and area from the computer (software)

Note: It is **MANDATORY** to use the machine with 3 KVA servo stabilizer

Technical Specification

•Capacity	: 100 Kn
•Platen size in mm	: 130 Dia mm
•Ram Dia in mm	: 90 mm
•Ram Travel in mm	: 50 mm
•Vertical daylight in mm	: 200 mm
•Horizontal daylight in mm	: 170 mm
•Weight approx in kg	: 350 Kg.
•Least count	: 0.1 Kn
•Controller	: 4" touch screen controller
•Accuracy	: 1% or better
•Pace rate controlling accuracy	: 10%

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