Order Code - MT021
Compression Testing Machine -
Automatic Pace Rate Controlled – 1000 KN

Manufactured as per International design, Plate model for highest mechanical stability, accurate centering of load and excellent repeatability. Automatic pace rate control, auto stop and manual release on failure of test specimen.

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

Note: Specifications are subject to change.

22.01.2022
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Technical Specification	
Capacity	1000 Kn
Platen size in mm	200 mm Dia
Ram Dia in mm	165 mm
Ram Travel in mm	50 mm
Vertical daylight in mm	300 mm
Horizontal daylight in mm	300 mm
Weight approx in kg	417 kg
Least count	0.1 Kn or better
Load indication and Control	4" Coloured touch screen controller
Accuracy	± 1%
Pace rate controlling accuracy	10%
Pumping	Motorized
Pump Speed	Dual speed
Motor	Stepper Motor
Reading	Digital
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
Calculation of result	Automatic
Holding of Max.Load	Available
Pace Rate or Rate of Loading indication	Available
Operator skill to control Pace Rate	Not Required
Bar Graph	Available
Multi Channel operation	3 channel operation possible, flexural and compression frame can be attached
Saving of records	Possible-10 reading
Pen drive slot	Optional, saves reading in excel format, Record date-time, Sr no and Peak load
Real time graph	Available, on controller itself
Printer interface (Direct connectivity to printer w/o computer)	In built
Computer operation software and data Acquisition software	Available at extra cost
Displacement controlled operation	Available at extra cost
Modulus of Elasticity Calculation	Available at extra cost
Flexural attachment	Possible, all calculations will be made automatically
Splitting Tensile Test	Possible, all calculations will be made automatically
LAN Connectivity	Available at extra cost
Auto internal Calibration without proving ring	Available
Piston over travel safety cut off	Available at extra cost
Over load safety cut off	Available
Shot circuit protection	Available

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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.
- 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 features of data manager PC software (Optional At Extra Cost.)

- 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 cutomer, 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 perameters like pace rate, sample size and area from the computer (software)

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

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