

Product Name :
Universal Testing Equipments

Product Code :
TEST5180RFQLAB-0001



Description :

Universal Testing Equipments for Testing Lab Equipment Tender Suppliers India

Technical Specification :

Universal Testing Machine

The system is capable of conducting following test:

- 1) Tensile
- 2) Compression
- 3) Bend/Flexural with flexible frame for different setting.

A. Load Frame and System

Performance:

Load frame capacity: 2000 kN or higher

Overall height: 1,600 mm

Vertical test space: 1,198 mm +10%

Basic control mode: Closed loop position and load

Maximum speed: 508mm/min

Minimum speed: 0.05mm/min

Speed 2000 KN

Maximum speed at full force: 250 mm/min

Testing speed accuracy: + 0.2% of set speed (Zero or Constant laad)

Displacement measurement accuracy: +0.02 mm

Lead measurement accuracy: 10.5% of reading down to 1/200th of load cell capacity

Crosshead position control resolution: 0.0037 pm +10“/

Dimension (WxDxH): 756 x 710 x 1,600 mm J10%
Weight: 5000 Kg \pm 10%

Power: 220—240V, 50Hz, 1000 VA

Accuracy as per ASTM E4 and ISO 7500-1

Calibrated class 0.5 load cell for measure load in tension or compression up to 1000 KN

C. Control and Data Acquisition Units (The Machine is equipped with a touch screen panel and world station with the requisite hardware to control the machine and Tensile, Compression, Bend/Flexure, Cyclq/Creep, Tear, Friction software or setting up and conducting the test, data acquisition and analysis)

Control modes: To operate the machine in load and strain (displacement) modes

Record and display: Live load and displacement value

Storage: Raw data in either CSV or ASCII format Sampling rate: To define the sampling rate as intervals in Time and Load.

System electronics: Having internal sampling

About 40 Mhz rate

Data capacity: The control software is capable of acquiring data at 1,000 Hz across load, displacement, and up to two optional strain channels

Fixtures All fixtures is compatible with the machine.

F-lexura1 test fixture

3 & 4 Point Bend Base

Fully articulating 3 Point Bend Anvils

Fully articulating 4 Point Upper Anvils

Compression fixture:

Compression platen with dia: 150 by load at least 50 KN

Tensile Grips:

Pneumatic Side Action Grips. Capacity: 2

Jam Faces, Rubber Coated. 38 mm wide x 25 mm high for Pneumatic Action Grips.

Jam Faces, Rubber Coated. 50 mm wide x 38 mm high for 2712-04x Pneumatic Action ships.

Extensometer:

Unbalanced elastomeric extensometer type

XP long travel for dual-column load frames 250 mm travel)

E. Software & controller

A user-friendly software for controlling the machine and conducting all kind of static tensile, compression, bend, low cycle fatigue and creep-fatigue interaction tests is supplied.

The program is compatible with Windows 10 or the latest operating systems. Window's based graphical user interface and fully integrated to touch interface

The testing software is able to perform tensile, compression, flexural, peel, tear, friction, and cyclic testing with an appropriate calculation list for each type of test.

Allow users to adjust data acquisition rate. Provide pre-configured test methods conforming to international standards (ISO, ASTM, EN)

Configure pre-load, pre-cycle and pre-soak functions to define coherent start environment.

Adjustable all size of live display, graphs, result tables and so on in test space.

Display multi specimens graph, multi channels graph, double y-axis graph and

Able to specify the time interval between required calibrations

Be able to export a report as PDF, MS Word or HTML formats

Export results, statistics or raw data to either a CSV or designated text file formats

Touch Screen Panel - Dashboard computer

Touch screen panel tablet/computer attached to the machine

2.0GHz Quad-core processor with RAM 8GB

Microsoft Windows 10 Professional (64bit)

21" touch panel with Full HD 1920 x 1080 display resolution

128GB storage

At least 3 USB 3.0 ports and an Ethernet port

Touch screen and fully integrated with edge-to-edge glass to maintain against dust and grease.

Mount to frame column in order to operate in place without any unnecessary reverent and adjustable position

Compactible to the operation software



Testing lab instruments India