

**Product Name :**  
Universal Testing Machine 50 KN

**Product Code :**  
NLAB-TECHNICALAB30031



**Description :**

Universal Testing Machine 50 KN

**Technical Specification :**

Universal Testing Machine 50 KN is an industrial design electro-mechanical testing machine with a capacity of 50 kN in traction and compression, adapted for the particular needs of engineering colleges, research and quality control. Tests may be carried out as a function of speed, stress or strain.

The analogue/digital interface and the software provided with the EM550 form a complete package allowing control, data acquisition and analysis using a PC. The advanced, user-friendly software is presented in toolbox form that demands no particular programming knowledge.

Data analysis and presentation can be effected off-line. Data from current and previous runs may be transferred as ASCII files for use with spreadsheet and other software.

Teaching objectives

The universal test machine allows a wide range of tests, including :

Tension, compression and bending.

Standard specimen testing.

Cycling up to 1 Hz.

Creep testing.

Fretting and fatigue.

Assembly and structure tests

Technical specifications

Machine control through PC compatible microcomputer.

Dedicated interface card with simultaneous 4-channel capability (force, cross-head displacement, extension and additional analogue input).

Interface mounted in PC.

12-bit data acquisition and control.

0-50 kN tensile/compression load range.

1,000 mm height under cross-head.

400 mm column clearance.

0.5 – 350 mm/mn cross-head speed.

2 twin row recirculating ball screw drives.

Resolution of the displacement sensor : 0.01 mm.

Screen display of force and displacement.

DC motor with tachometric generator (or brushless induction motor, recommended for servo-driven creep testing).

Safety shield around test zone

## Naugralabequipments

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