KALPAK INSTRUMENTS & CONTROLS



COMPUTERISED UNIVERSAL TESTING MACHINE

Kalpak Computerised Universal Testing Machines are ideal for quality control, R&D and Process troubleshooting. Wide range of tests can be conducted as per latest ASTM/BS/ISO/DIN standards making them essential for Material Test Laboratories of ISO certified companies.

Features Load Capacity: wide choice from 100Kgf/1000Kgf/10Ton models. Mechanical tests supported: Tensile, Compression, Tear, Shear,

Peel, Puncture, Friction, Flexure, Insertion, Bend, Extraction, Adhesion

Load accuracy: 0.2% of full scale

Loading frame: powder coated with compact footprint with

Table mount/floor mount option.

Drive mechanism: Ball screw driven by variable speed

Drive for zero back lash.

Testing area: dual space with interchangeable load cells.

Control mechanism: through PC

Safety features: Emergency Stop Button, Upper & Lower Limit switches with Over Travel protection & load cell

Overload protection.

Software: Kalpak's proprietary user friendly software

Display: LCD Monitor

Options: Wedge Grips for Tensile test, Compression plates,

Fixtures for 180 & 90 degree Peel test & Flexure tests.



Typical Applications Auto Components, Rubber & Elastomers, Plastic & Metals, Cords & Textiles, Non Woven Materials Packing Materials, Adhesives, Electronics, Medical

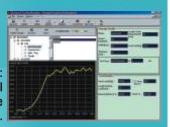
Kalpak UTM-C Test Software

Kalpak UTM-C Test Software is designed for user friendly Control of Kalpak Computerised Universal Testing Machine. Online Data Acquisition to PC as well as Data Analysis.

Main Screen:

For setting Sample Details Machine Parameters & Test Parameters.

Graph View Screen: Test Screen showing Graphical Display of Test Data alongside Sample details & Test results.





Multi Graph View Screen:

For Comparing Multiple Tests by viewing as superimposed Graphs as well as Tabular analysis of each test result.



Test Configuration Screen

Key Features include:

- ▶ Real time display of data, Test curves
- ▶ Test results can be generated Providing Accept/ Reject Status as per defined norms.
- ▶ Online/ Off line generation of Graphs of Load Versus Length, Load versus Displacemer Load Vs Elongation. Stress Vs Strain with a scaling feature.
- ▶ Comparative study of various test results using features like Multi Graphs, Bar Graphs.
- ▶ Software password protection.
- ▶ Easily accessible file system to retrieve and view stored data.
- ▶ Automatic Calculation of Parameters like Percentage Elongation, Peak load, Break load, Displacement, Peak Elongation, Peak tensile Strength, Break tensile strength, Proof stress, Strain, Young's modulus.

SPECIFICATIONS

MODEL



Optional Accessories



Fixtures:

Spring Loaded Wedge grip for tensile test, compression plate for compression test. Also fixtures available for peel (90 degree / 180 degree), Flexure, tear, bending test.

Electronic Extensometer:

Direct Extension measurement sensors suitable for extension measurement. Reduction in width measurement, deformation measurement in compression and Flexure tests, designed as per requirement.

KALPAK Universal Testing Machine with Hot air circulation chamber

To test at elevated temperatures.

Size: As per the user requirement.

Range: Up to 250° C Hot air circulation by





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