



## *K-TEST Series*

# **Kalpak Computerized Horizontal Electronic Tensometer (Load Capacity 20 KN) Model KIC-H-20KN-C**



Kalpak Computerized Horizontal Electronic Tensometers are system with Computerized machine Control, Data Acquisition and analysis capability.

These machines are ideal for Quality Control, R & D as well as Process Trouble shooting. The Machine can perform wide range of tests as per latest ASTM/BS/ISO/DIN standards making them ideal for Material test Laboratories of ISO certified companies.

### Typical Applications:

- Metals
- Rubber and Elastomers
- Plastic
- Fabrics
- Wires and Cables
- Cords and Textiles
- Adhesives
- Plywood
- Composites
- Ceramics
- Engineering Components

### Mechanical Tests Supported

- Tensile
- Flexure
- Tear
- Shear
- Friction
- Bend
- Insertion
- Adhesion
- Extraction
- Peel
- Puncture.
- Compression

### Features:

Parameter/Model	KIC-H-20KN-C with PC based Controller		
<b>Load Capacity</b>	Up to 20 KN max. (2 Tons)		
<b>Load Cell Options</b>	200N, 2 KN, 5KN, 10 KN ,20 KN		
<b>Loading</b>	By Zero backlash Ball Screw		
<b>Drive</b>	AC Servo Motor with AC Servo Drive		
<b>Load Accuracy</b>	+/-0.5% of the reading over 2 to 100% of Load Cell capacity		
<b>Loading Frame</b>	Powder Coated Table Mount type		
<b>Control Mechanism</b>	Through PC		
<b>Safety Features</b>	Emergency Stop Button, Upper and Lower Limit switches with over travel protection and Electronic overload protection for load cell.		
<b>Software</b>	Kalpak UTM-TEST-C Windows based user friendly software for Machine Control, Data acquisition and Analysis.		
<b>Display</b>	PC Monitor		
<b>Optional Accessories</b>	Extra Load Cells	Wedge Grip for wires, Strips, rods etc.	Cord Grip
	Eccentric Roller Grip	Standard Dumbbell Grip	Rotating Grip for Rubber O ring



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**Specifications**

Parameter/Model	<b>KIC-H-20KN-C with PC based Controller</b>
Mechanical Frame	20 KN max
Load measurement	By Load cells.
Load Cells Options	200 N, 2KN, 5 KN, 10KN, 20 KN.
Measuring Units	Newton and KG
Load resolution	0.01%
Load Accuracy	+/- 0.5% of the reading
Length resolution	0.01 mm
Test Speed	0.1 to 500 mm/min
Speed Resolution	Min up to 0.1 mm
Controller	Computerized Controller based with dedicated software, USB 2.0 compliant,
Pre test data	Following data can be programmed by User through software: 1.Date 2.User Name 3.Material under Test 4.Batch No.5.Sample Dimensions 6.Test Reference. 7.Speed.
Test Outputs available	Peak Load, Peak Elongation, Brake Load, Percentage Elongation, Brake Elongation, Following are calculated through Software: Stress, Accept /Reject Results, Peak tensile Strength, Brake Tensile Strength, Proof Stress, Strain, Young's Modulus
Graphs and Charts Options	1. Load V/S Length, 2. Load V/S Displacement, 3. Load V/S Elongation. 4.Stress V/S Strain, 5. Comparative study using Multi Graphs.6. Bar Graphs
PC	Essential, Suggested configuration: Intel ATOM 1.6 GHz, with 52X CD-R/RW,LCD Monitor, 256MB RAM, 40GB HDD, Mouse, Keyboard, 1 SERIAL COM port, 2 USB ports, 1 printer port, with WINDOWS XP preloaded.
Software Features	UTM-TEST-C for Machine control, Data Acquisition and Analysis. <b>Features:</b> Offline graphical Display •Auto Scaling of Graph •Database of test results •Printing of Test Reports for tested samples •Capability to store test data in files •Statistical analysis of test Data •Self recognition and calibration of load cell. •User can design and add new tests.
Power Supply	220 AC, 50 Hz, 1500 VA
Dimensions	1250(L)X400(D)X300 (H)
Weight	80 Kg



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