



KALPAK INSTRUMENTS & CONTROLS

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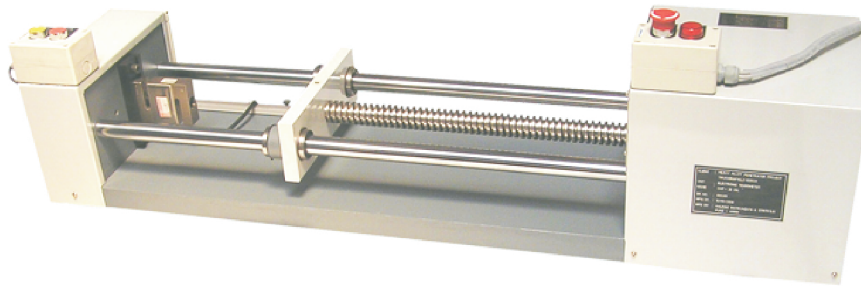
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Kalpak Horizontal Electronic Tensometer (Load Capacity 20 KN)

Kalpak Horizontal Electronic Tensometers are available in two versions:
a. ELECTRONIC - With Micro-controller Controller
b. COMPUTERIZED - With PC based Controller.

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



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.

Features:

Parameter/Model	KIC-H-20KN-E with Micro-controller based Controller	KIC-H-20KN-C with PC based Controller	
Load Capacity	Up to 20 KN max. (2 Tons)	Up to 20 KN max. (2 Tons)	
Load Cell Options	200N, 2 KN, 5KN, 10 KN ,20 KN	200N, 2 KN, 5KN, 10 KN ,20 KN	
Drive	AC Servo Motor with AC Servo Drive		
Load Accuracy	0.5% of the reading.		
Loading Frame	Powder Coated Table Mount type	Powder Coated Table Mount type	
Control Mechanism	Through Keypad on Electronic Controller.	Through PC	
Safety Features	Emergency Stop Button, Upper and Lower Limit switches with over travel protection and Electronic overload protection for load cell.		
Software	Kalpak UTM-TEST Windows based user friendly software for Data acquisition and Analysis.	Kalpak UTM-TEST-C Windows based user friendly software for Machine Control, Data acquisition and Analysis.	
Display	4X20 Character back lit LCD Display	PC Monitor	
Optional Feature	Ball Screw driven by variable speed drive for zero backlash.		
Optional Accessories	Extra Load Cells	Wedge Grip for wires, Strips, rods etc.	Cord Grip
	Eccentric Roller Grip	Standard Dumbbell Grip	Rotating Grip for Rubber O ring

K-TEST Series
Kalpak Horizontal Electronic Tensometer
(Load Capacity 20 KN)



Specifications

Parameter/Model	KIC-H-20KN- E with Micro-controller based Controller	KIC-H-20KN-C with PC based Controller
Mechanical Frame	20 KN max.	
Load measurement	20 KN maximum with Load cells.	
Load Cells Options	200 N, 2KN, 5 KN, 10KN, 20 KN.	
Measuring Units	Newton /Kg	Newton and KG
Load resolution	0.01%	
Load Accuracy	+/- 0.5% of the reading	
Length resolution	0.1 mm	0.01 mm
Test Speed	0.2 to 500 mm/min	
Speed Resolution	Min up to 0.1 mm	
Controller	Micro Controller based dedicated Electronic controller Keypad & 20 x 4 character back lit LCD display (DRO) , 32 KB built-in memory.	Computerized Controller based with dedicated software, add on cards,
Pre test data	Following pre test data can be programmed by User: 1. Date 2. User Name 3. Material under Test 4. Batch No. 5. Sample Dimensions 6. Test Reference. 7. Expected Load range. 8. Strain rate etc.	
Test Outputs available	Peak Load, Peak Elongation, Brake Load, Percentage Elongation, Brake Elongation, Following are calculated through Software: Stress, Programmable Accept /Reject Results, Peak tensile Strength, Brake Tensile Strength, Proof Stress, Strain , Young's Modulus	
Data transfer to PC	Optional On PC Monitor through RS232 Data Transfer PC Interface on Electronic Controller and UTM-TEST software	On PC Monitor through Data transfer/ Acquisition Card integrated in PC and and UTM-TEST-C software.
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	Optional	Essential
PC Configuration	PC Pentium IV 2.6 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 (Optional)	UTM-TEST-C (Integrated with System)
	Digital Display for load and deformation on LCD	Digital Display for load and deformation on PC Monitor.
	Online/ 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	220 AC, 50 Hz, 1500 VA
Dimensions	1250(L)X400(D)X300 (H)	1250(L)X400(D)X300 (H)
Weight	80 Kg	80 Kg