

KIC-2-XXXX-C Capacity up to 250 KN

COMPUTERIZED UNIVERSAL TESTING MA

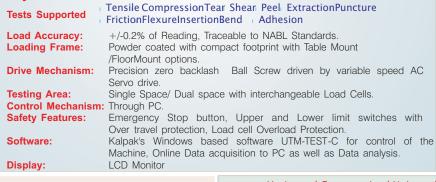
Computerized Universal Testing Machines





Key Features include :





Non Woven Materials

Rubber & Elastomers

For setting Sample Details Machine Parameters & Test

Packing Materials

Cords & Textiles

Main Screen :

Parameters.

Medical

Horizontal Computerized Universal testing Machine KIC-XXXX-H

Load Capacity Up to 20 KN max. (2 Tons) Load Cell Options 200N, 2KN, 5KN, 10KN, 20KN AC Servo Motor with AC Servo Drive Drive

Optional Features Ball Screw driven by variable speed drive for zero backlash.

Computerized Servo Hydraulic

Universal Testing Machines

KIC-XXX-SH

Capacity up to 100 KN

Dynamic test System for fatigue testing for

• Load Capacity Options: available in

Customization: As per User's performance

requirements from a variety of options for

valve flow ratings, and pump capacity etc.

Load frame Size, force capacity, Servo

Materials & Components up to 100 KN

5 KN/10 KN/25KN / 50 KN/100 KN

Key Features include :

100

Typical Applications

Auto Components

Plastic

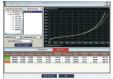
Metals

Adhesives

Electronics

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

Test Configuration Screen



Multi Graph View Screen : For Comparing MultipleTests by viewing as superimposed Graphs as well as Tabular analysis of each test results.



Kalpak UTM-Test-C Software is designed for user friendly Control of Kalpak

Kalpak UTM- Test-C Software

Computerized Universal Testing Machine. Online Data Acquisition to PC as well

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, L oad versus Displacement, Load Vs Elongation, Stress Vs Strain, with 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 past data.
- Automatic Calculation of Parameters like Percentage Elongation Peak load, Break load, Displacement, P eak Elongation, Peak tensile Strength, Break tensile strength, Proof stress, Strain, Young's modulus.



Accessories:

We offer a wide range of customized accessories such as Self tightening Wedge Grips, Double Bollard Grips, Eccentric Roller Grips, Screw Clamping Tensile Grips, Bending/ Flexure testing Fixture, Wire Test Grip, Peel Test Fixtures, Compression Plates, Cord Grips, Dumbbell Grip, Rolling Grip for Rubber 'O' Ring, Additional Load cells, Extensometers and Environmental Test chambers.





E-mail :kalpakpune@vsnl.com, kalpakpune@gmail.com

www.kalpakinstruments.in

Tel. : +91 -20 - 24346802

as Data Analysis.

KALPAK'S K-Test Series

Computerized Spring Tester For Online Testing Of Springs







Features v

Drive Mechanism

Testing Area OUTPUT Software

Test Capability

5 Step Test Method

Safety Accessories

Sample testing

Programming Display Control Mechanism



Capacity 25 KG

: Dual space i.e. above and below moving crosshead.

Graphical as well as Tabular Report generation

Test as per the component to be tested.

atures

: PC based with unlimited memory storage facility.

Testing Area:

Output:

Safety:

Accessories: Group testing :

Software:

Test Capability:

and excellent length accuracy.

Spring rate, Free Length.

Through Computer Keypad.

: PC Monitor display.

and Analysis.

loads.

Hooks

: Ball screw driven by variable speed drive for zero backslash

: User friendly windows based software for Data storage, retrieval

Load test with Length input, Length Test with Load as input

Tests load v/s Deflection values at 5 programmed heights /

Emergency Stop. Over Travel Protection. Overload Protect ion. Grips for tension measurement Compression Test Fixture,

Enables user to program for Unlimited samples and select the



Capacity 300 KG



Kalpak Spring Testing Software v

Kalpak Spring testing Software is Windows based user-friendly software. It enables measurement of load and length as well as calculation of free height, deflection at preset length, Load at preset length, Spring Rate. The Test screen displays test results in Tabular and graphical formats. The software enables easy access to past results.

			SPRI	VG TES	STER		
New	Qom	Save As	Delete	Oajine	Beceive Pr	et Settine	Resort Egit
Select.	All Test Type		• Test Mode		· Part No		• Speed
1.			Sprt	ng Test Tabl	le	35. 265.9777	
Sr.No.	Length(mm)	Load(Kgf)	Length(mm)	Lond(Kgf)	Length(mm)	Load(Kgf)	Spring Rate(Kg0mm
0001	024.50	+02.56	019.50	+01.11	015.50	+01.62	0.11
0002	024.50	+03.58	019.50	+01.12	015.50	*01.60	0.108
0003	024.50	+00.58	019.50	+01.12	015.50	+01.57	0.108
0004	024.50	+03.57	019.50	+01.12	015.50	+01.60	0.11
0005	024.50	+01.57	019.50	+01.11	015.50	+01.59	0.108
0006	024.50	+00.55	019,50	+01.10	015.50	+01.60	0.11
0007	024.50	+03.58	019.50	+01.11	015.50	+01.59	0.106
8000	024.50	+03.56	019.50	+01.11	015.50	+01.59	0.11
0009	024.50	+00.57	019.50	+01.11	015.50	+01.58	0.108
0010	024.50	+03.55	019.50	+01.10	015.50	+01.60	0.11
0011	024.50	+00.55	019.50	+01.13	015.50	+01.60	0.116
0001	024.50	+00.55	019.50	+01.09	015.50	+01.55	0.108
0002	024.50	+03.54	019.50	+01.08	015.50	+01.54	0.108
0003	024.50	+00.54	019.50	+01.03	015.50	+01.56	0.108
0004	024.50	+01.54	019.50	+01.03	015 50	+01.55	0.108

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STM-1000-C Capacity 1000 KG Control Mechanism and Programming: Through PC Drive Mechanism:

Ball Screws driven by AC servo Motor and AC servo Drive Dual Space i.e. below and above crosshead Test Parameters displayed on PC Monitor & reports on printer Kalpak STM-TEST Software for Machine Control, data acquisition and data analysis Load test with Length input, Length test with Load input, Spring Rate, free Length

5 Step test Method: Tests Load versus deflection values at five programmed heights/loads

Emergency Stop, Over Travel Protection, Overload Protection Grips & fixtures for tension & compression springs Unlimited group setting facility





Features >> • Choice of Models: Computerized/ Motorized/ Manual Interchangeable Torque cartridges

Accurate Torque/ Angle Measurement

Tester

• Accuracy: Better than +/-0.5% of the reading

E-mail :kalpakpune@vsnl.com, kalpakpune@gmail.com



MICRO LEAK TESTER

For Accurate Objective And Fast Dry Air Leak Testing

Kalpak instruments and Controls offers a complete range of Micro Leak TEsters to suit virtually any LEAK TESTING application in Production Testing, Quality Control and R & D applications. KALP AK Leak Tester is a PLC with touch panel HMI based instrument capable of easy and accurate volume Leak testing down to 1cc / min and measuring test pressures over a wide range from vacuum to 200 Bar using dry air as a source. It can test the products for leakage as per the latest national and international standards.

- Fully Programmable.
- Ease of Operation.
- Faster, repeatable Performance.
- Features • Accept / Reject decision through Audio - Visual indications.
- Ideal for production line QC / SPC Applications.
- Easy calibration.
- Can be used both for Single station Manual Testing as well as Automated Assembly / Test Systems.
- Touch Panel HMI Display for Test Results and status indication.

- USB_Interface for Data
- Communication to PC.

We offer a choice from 4 proven Models depending on your allowable leak pressure and test pressure specifications.

Model				
Model No.	MELD 1000-P	MELD 2000-P	MELD 3000-P	MELD 4000-P
Technology	Vacuum based	Pressure Decay	Differential Pressure / Vacuum	Mass Flow based
Test Pressure	Up to 760 mmHg	Up to 200 Bar	1 Bar to 20 Bar	Up to 100 Bar
Leak Measurements	1 mBar and above	1 mBar and above	0.01 mBar / 0.1mm WC and above	0.1 cc / min. and above
Accuracy	1:2000 parts	1:2000 parts	1:20000 parts	1:10000 parts

Leak Test Software

Kalpak Leak Test Software is a powerful Windows based user friendly software specially designed for the user of Kalpak Leak Tester . The test data is acquired through the serial PC Port and logged on to provide tabular display . The table indicates Product Details like Product and Customer Code number as also Test P arameters like Fill Time, Settle Time, Test Time, Exhaust Time, Delay Set and Group Set. The Data Table Provides details such as Test Date & Time, Set Test Pressure, Set Pressure Difference, Actual leak and Accept / Reject Status.

Features

User friendly screen with complete evaluation & presentation of test results in Tabular formats. Easy to load, Easy to operate, No special training required. Online or R eceive mode options Report screen is used to make data entry and to generate reports, Layout design of parameters, results can be pre-programmed as per user requirements Easy access to results of past test data.



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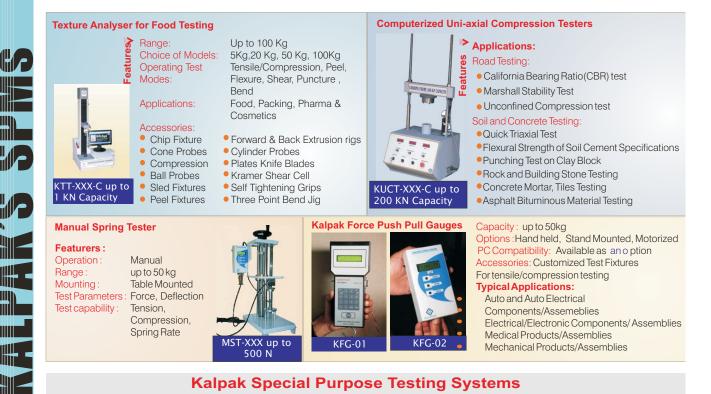


We offer Complete turnkey Leak Test Solutions using our engineering expertise in application of Leak detection Techniques. We have in house capabilities for Electrical and Electronic Design, PLC programming, Customized SPC and Data Analysis Software development, Design & development of Customized Manual/Pneumatic or hydraulic Clamping Test fixtures to support our turn key solutions. Above photos shall provide you with an insight into the range of Customized Leak test Systems developed by us:

E-mail :kalpakpune@vsnl.com, kalpakpune@gmail.com

www.kalpakinstruments.in





Our multi disciplinary capabilities enable us to understand customer's requirement in totality and offer them customized solutions to their testing problems as well as upgrading their test capabilities by offering features such as automated testing, data acquisition and analysis. We offer both Micro controller based as well as PC based Data acquisition and analysis systems.



Other Applications covered :

Leak testing applications

- PC Based Automatic Test & Data Acquisition System for Steering Gears
- Welding Torch leakage test Set up
- PC Based Vane Pump Test Rig
- Common Leakage test Rig for Cooling & intake Pipe (Hot water based)
- Automated Leakage test Rig for PTO & FWE casting
- Automated Leakage testi Rig Rear & Intermediate Housing casting
- Automated Leakage tester for TEV Body Casting
- SPM for Leak Testing for Air-cooled & Water cooled Cylinder Head and Water cooled Cylinder Barrel
- Leak Testing System for Body Leak Testing of Crank Case
- Leakage test System for Bulb Connector
- Piston Valve Clearance Test Rig

Other Applications :

- Friction Measurement Set up with PC interface & PC software
- Torch Switch test set up with PC interface & PC software.



KALPAK INSTRUMENTS & CONTROLS

16, N.R. Industrial Estate, Hingane Khurd, Vitthalwadi, Pune - 411 051. INDIA Tel: +91 20 2434 6363, 2434 6802, Fax: +91 20 2434 6363 E-mail :kalpakpune@vsnl.com, kalpakpune@gmail.com Website : www.kalpakinstruments.in

In view of Technological developments and our policy of continuous improvements in our products, Kalpak Instruments and Controls reserves the right to change Specifications, Dimensions and Features without notice.

Force/ Torque/ Displacement Testing applications :

- Clutch Plate Torque Test Rig
- Clutch Plate Drag Test Rig
- O Clutch Cover Clamp Load/ Release Test Rig
- Acceptance Test Rig for Mann Clutch Cover Assembly
- JASO Test Rig for Command and Control Cables
- Bendix Gear Test Rig
- Muscle Strength Comparator
- Egg Shell Strength Tester
- Food Texture Strength Tester

Endurance/ Performance test Rigs :

- ACG/ Magneto Performance Test Rig
- ACG & Alternator testing Rig
- Refrigerator Bulb Endurance test Rig

- Automobile Horn Endurance test Rig
- Winker Relay Endurance test Rig
- Switch Endurance Test Rig
- Torsional Vibration Endurance Test