



KALPAK INSTRUMENTS & CONTROLS

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Kalpak Computerized Servo Hydraulic Compression Testing Machine KICTM-2000-C Capacity up to 2000KN



Kalpak Computerized Servo Hydraulic Compression Testing Machines are designed for testing the compression strength of cement, concrete, rocks, brick. They can also perform shear test, anti-break test and elastic modulus test of concrete with special compression fixtures and measurement assembly.

Applications:

This machine is Ideal for Test Laboratories, contractors as well as Research centers and Engineering Colleges.

Features:

The Kalpak Computerized Servo Hydraulic Compression Testing Machine incorporates design features to enable high accuracy testing with economy, speed & versatility. Its features include:

- Loading Accuracy as high as $\pm 0.5\%$ of Reading
- Straining at variable speeds to suit a wide range of materials.
- Online Data Acquisition and Analysis capability
- PC based user friendly operation
- Robust frame of an extremely rigid construction.
- Safety features like Emergency Stop, Ram Over Travel Protection by full length adjustable Limit Switch, Electronic Over Load protection max. upto 100% of capacity, Both side Fragment guard

Specifications:

Parameter	Specification
Machine Capacity	2000 KN for testing of Masonry specimen of size 500 mm (wide) & 900 mm (height), Concrete cubes 200 mm, Concrete cylinders 160x320
Load Frame	steel Plate welded frame , 600 mm allowable horizontal clearance
Loading Platen	Dia. 300 mm, hardened with minimum hardness 550 HV 30
Mounting	Free standing Vertical Mounted with base
Load Range	20-2000 KN with preset for 500 KN, 1000 KN & 2000 KN
Load Resolution	1 : 100000
Load Accuracy	+/- 0.5% of Reading, Between 4%-100% Range
Length measurement	Linear Sensor for Cross Head travel.
Length Resolution	For Cross head travel 0.01 mm
Length Accuracy	For Cross head Travel +/- 0.1 mm
Ram Speed or Strain rate	Programmable from 0.2 to 200 mm/min with resolution of 0.1mm/min.
Ram Travel	50mm, 100mm, 150mm, 200mm & 250 mm
Max. Travel Daylight	300mm, 500mm, 750mm & 1000 mm
Operating /Test Modes	Rapid approach & slow Loading , User programmed Load Ramp KN/sec or Mpa/sec, displacement control um/sec
Actuator Drive	Servo Hydraulic Controlled Hydraulic Cylinder
Control Mechanism	Computerized Controller based with dedicated software, add on cards, Provides control in both Auto & Manual mode
PC Configuration	Supplied with machine. Intel Atom processor 1.6 GHz, with 52X CD-R/RW, , 256MB RAM, 40GB HDD. Mouse, Keyboard, 1 SERIAL COM port, 2 USB ports, 1 printer port, with WINDOWS Xp professional preloaded
Safety Features	Emergency Stop, Ram Over Travel Protection by full length adjustable Limit Switch, Electronic Over Load protection max. upto 100% of capacity, Both side Fragment guard
Software for Analysis & Control	Kalpak CTM TEST-C is a Windows based software dedicated for control of Computerized CTM. It is useful for On line Data Acquisition to PC as well as Data Analysis. It is User friendly with features such as: 1.Digital Display for load and deformation

	2.Online as well as Offline graphical Display of Load Time Curve, 3.Test Speed Control and automatic Return 4.Database of test results 5.Printing of Test Reports for tested samples 6.Ability to store test data in files 7.Statistical analysis of test samples 8.Comparative analysis using Multigraphs
Display	Both Numerical & Graphical Display on PC Monitor
Units	Metric, Imperial & SI User Programmable
Power Supply	440 Vac, 50 Hz,
Size	1800 (H) x 800 (W) X 800(D) mm nominal, with Base Frame
Weight	Net Weight – 1550 Kg,

Accessories

1.	Compression Plates	Set of Compression Plates to adjust test height
2.	Flexure Test Attachment	500 KN capacity for testing standard Concrete beams 100x100x500 & 150x150x750 complete with pressure transducer for control, with rollers & standard accessories