



DIGITAL SPRING TESTING MACHINE

IEICOS Digital Spring Testing Machine – Model DSTM (Manual)

IEICOS Digital Spring Testing Machine is designed for conducting load-deflection test on spring or other material in tension or compression. IEICOS Digital Spring Testing machine is a hand wheel operated machine which uses a strain gauge based load cell with microcontroller based digital load indicator with tare and peak hold features for highly stable and accurate force measurement system. The displacement is measured using standard accurate digital vernier scale. The spring testing machine is an useful instrument for testing of compression or tension springs at low affordable price.



Features:

- Hand wheel screw rod arrangement operated spring testing machine to load exactly at any desired load or deflection.
- Capacity from few grams to 5000KG using hand operated screw rod arrangement.
- Digital reading of Load/Force with long term stability.
- Digital reading of Displacement using accurate digital vernier scale.
- Other applications – load/deflection testing of variety of material such as foam, rubber, cork, packing material, and for application such as pull out force, actuation force measurement etc.
- Standard models are available with 250mm, 500mm and 1000 mm spacing.
- Other models with custom spacing and load rating can be provided

Model	DSTM-10	DSTM-20	DSTM-50	DSTM-100	DSTM-200	DSTM-500	DSTM-1000	DSTM-2000	DSTM-5000
Effective Spring Spacing	250 mm								
Load Range:	10 Kg	20 Kg	50 Kg	100 Kg	200 Kg	500 Kg	1000 Kg	2000 Kg	5000 Kg
Load Measuring Resolution:	0.01 Kg	0.01 Kg	0.1 Kg	0.1 Kg	0.1 Kg	1 Kg	1 Kg	1 Kg	1 Kg
Accuracy:	+/- 1 % FS								
Displacement	150 mm								
Displacement Measurement Resolution:	0.01 mm								
Accuracy:	+/- 1 %								
Nominal Dimensions LXDXH in m	0.5x0.3x0.8								
Power supply	230V ± 10% 50 Hz								
Weight (kg) Nom	50	50	50	50	50	60	60	70	75

Other Effective Spring Spacing options:

- 500 mm, 1000 mm with 150 mm stroke or higher stroke lengths. Please contact us with your specific requirements.

IEICOS Computerized Digital Spring Testing Machine – Model CDSTM (Manual)



The above manual loading digital spring testing models are available with computer interface facility for both load and displacement and is provided with advanced software for real-time display of load and displacement with dynamic display of load - displacement curve.

The advanced software is graphical menu driven software with display of load and displacement, plotting of load and displacement with time, plotting of load and displacement curve in real-time. The advanced menu driven software has built in data storage, archiving, retrieval, graphing with data zoom in/zoom out, pan and other features. The software also provides data entry screen to enter test spring data and parameters. Report generation is provided to generate reports for saving and printout. The software can be customized with user's requirements at request.

Optional :

Motorized Models (Model No with -M suffix) : IEICOS offers motorized loading arrangement option for all the manual models. Motorized model prices are available on request.

Manual Hydraulic Models (Model No with -MH suffix): IEICOS offers manual hydraulic loading arrangement option using manually operated hydraulic jacks instead of the screw rod arrangement for spring testing machine models above 1000 Kg. Manual Hydraulic models are available upto high loading capacity of 50 Tons. Manual Hydraulic Loading model prices are available on request.

Electrically Operated Hydraulic Models (Model with -EH suffix): IEICOS offers manual hydraulic loading arrangement option using electrically operated hydraulic jacks instead of the screw rod arrangement for spring testing machine models above 1000 Kg. Manual Hydraulic models are available upto high loading capacity of 200 Tons. Manual Hydraulic Loading model prices are available on request.

Precision Servo Controlled Digital Spring Testing Machine (Model with -P suffix)::

IEICOS offers computer controlled servo motor/hydraulic loading options for automatic controlled loading of springs with programmable loading options. The loading of the spring including acceleration/deceleration of loading, ramp rate etc can be configured with various profiles including programming of number of cycles of loading. This advanced spring testing machine is available in standard models with standard spacing mentioned in the table or as custom built for user requirements.

We have research, design, development, prototyping and production expertise for development of your custom test rigs including manufacturing import substitution products to meet your spring testing needs.

INDUSTRIAL ENGINEERING INSTRUMENTS

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IEICOS reserves the right to change specifications, design, look, size, shape, dimensions without notice due to continuous improvement

