Computer Compatible Motorized Torsion Testing Machines

Model Series: TSTM— Low capacity





TSTM is a line of microprocessor controlled motorized machines designed to automate, simplify and standardize the strength different types Torsion Springs and different specimen both in clockwise and counterclockwise direction. Electronics Torque Transducers are used measure the torque and optical encoders to measure angle of rotation accurately.

Torque is applied using front control panel mounted push button or through the microprocessor based controller.

If PC operation is opted for these controllers can also be linked to a PC through RS232 (serial) port or USB port.

Application Software, tTEST, converts the test stand in to a Computerized Testing Station. Operator can view the material characteristics on the VDU (monitor) and generate test report through printer connected to the host computer. Facility also exists to display a reference or master curve in different color on the monitor to allow instant assessment of the quality of the device being tested.

Models TSTM-0.13, TSTM-1.3 and TSTM –5 are LOW TORQUE models. They incorporate imported Precision Torque Transducer.

Features

- Accurate torque vs angle characteristics
- Easy Fixing of Spring to Test
- Microprocessor based controller and Application Software converts the machine into Computerized Test Station
- Repeatable Test Results

Specifications

Model	TSTM-0.13	TSTM-1.3	TSTM-5	TSTM-20	TSTM-50	TSTM-100		
Maximum Torque Rating [N-m]*	0.13	1.3	5	20	50	100		
Torque Measuring Resolution	0.0001N-m or 0.01 N-cm	0.001 N-m or 0.1 N-cm	0.01 N-m or 1 N-cm	0.01 N-m or 1 N-cm	0.1 N-m	0.1 N-m		
Torque Measurement Accuracy	0.5 % of Rating	0.5 % of rating	0.5 % of Rating	0.5 % of Rating	1 % of Rating	1 % of Rating		
Angle Measurement Range	360 degree							
Angle Measurement Resolution	0.1 degree							
Standard Test Speed Range Customized versions available	0.2 to 12 degree per second			10 to 360 degree per min				
Maximum diameter of spring or specimen [mm]	50	50	75	75	100	100		
Maximum Length of spring or specimen [mm]	50	50	75	300	350	500		

 Machine Controller:
 Microprocessor based with RS232 port for PC interface

 Drive:
 Servo Motor, digitally controlled

 Power Source:
 230 V +/-10%, 50Hz

 Ambient :
 10 .. 45 deg C,

 Construction:
 Table-top

 Accessories
 One set of plates and spring mounting pin, Rs232 cable and one USB interface cable for connection to PC

 Application Software (tTest) (supplied with each machine)
 Supplication Software (tTest)

Features include easy setup for different types of springs, real-time graphic display of torque vs. Angle characteristics, Data storage, view of previously conducted tests, Test report generation.

* Torque Unit: 1 N-m = 100 N-cm = 1000 N-mm= 0.102 kgf-m = 10.2 kgf-cm

For Custom accessories as per requirement Consult factory. These could include special spring adaptors, chucks etc.

AG Measurematics Pvt. Ltd.



Unit-1: 30, Civil Lines, Roorkee-247667, INDIA Tel: 01332-270772, 278662 Unit-2: Indutrial Area, Ramnagar, Roorkee-247667 Email: info@agmpl.com



As a result of continuous development these specifications are subject to change without notice.

Computer Compatible Motorized Torsion Testing Machines *Model Series: TSTM— High Capacity*



Models TSTM-200 TSTM-500 and TSTM -1000 and TSTM-2000 are High Torque models. They incorporate imported Precision **Torque Transducer.**

Features

- Accurate torque vs angle characteristics
- Easy Fixing of Spring to Test
- Microprocessor based controller and Application Software converts the machine into Computerized Test Station
- Repeatable Test Results •

Specifications

Model	TSTM-200	TSTM-500	TSTM-1000	TSTM-2000			
Maximum Torque Rating [N-m]*	200	500	1000	2000			
Torque Measuring Resolution	0.1 NM	1 NM	1 NM	1 NM			
Torque Measurement Accuracy	0.5 % of Rating	0.5 % of rating	0.5 % of Rating	0.5 % of Rating			
Angle Measurement Range	360 degree						
Angle Measurement Resolution	0.1 degree						
Standard Test Speed Range Customized versions available	0.2 to	o 12 degree per s	second				
Maximum diameter of specimen [mm]	400	400	600	600			
Maximum Length of specimen [mm]	500	500	750	900			

Machine Controller: Drive: Power Source: Ambient : Construction: Accessories

Microprocessor based with RS232 port for PC interface Servo Motor, digitally controlled 415 V and 230 V +/-10%, 50Hz 10 .. 45 deg C,

Floor Standing

One set of plates and one USB interface cable for connection to PC

Application Software (tTest) (supplied with each machine)

Features include easy setup for different types of springs, real-time graphic display of torque vs. Angle characteristics, Data storage, view of previously conducted tests, Test report generation.

* Torque Unit: 1 N-m = 100 N-cm = 1000 N-mm= 0.102 kgf-m = 10.2 kgf-cm

For Custom accessories as per requirement Consult factory. These could include special spring adaptors, chucks etc.



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