

TEC-SOL INDIA

A Specialist in Testing Machines

Manufacturers of all types of Material Testing Machines

TEC-SOL ADVANCED TENSILE TESTING MACHINE is adopting the Computer control technology. You can analyse the whole testing result including elongation, stress, strain, break value and average value. It can also fit to different specimen shape as required and records the entire testing process.

Digital Tensile Testing Machine

Capacity : 100 Kgs to 25 Ton.

Single column and double column design.

Stroke : 100 mm -1500 mm

Control Panel with Load Cell and Digital Indication

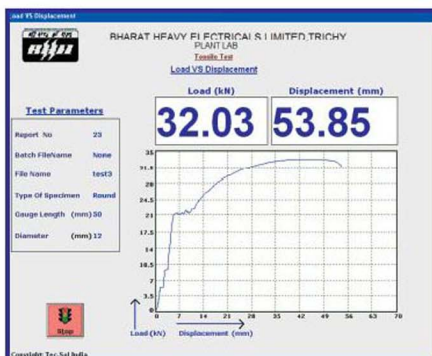
Variable Speed : 0.0005 - 1000 mm/min

Displacement : 0 - 1500 mm

Load Accuracy : 1 % and 0.5%



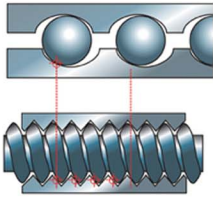
COMPUTER CONTROLLED BALL SCREW DRIVEN UNIVERSAL TESTING MACHINES



Salient Features:

- ~ Variety of tests like Tension, Compression, Traverse, Peel off, Bend, Shear, etc. can be conducted.
- ~ Suitable for testing a wide range of materials like Rubber, Plastic, Ferrous metals, Non-ferrous metals, etc. of various forms like round, flat, thread, wire, dumb bell, fabric, belt, strip, rope, etc.
- ~ AC Servo motor for crosshead control at user defined speed for eg. 2mm per minute.
- ~ Over Load & Over travel safety.
- ~ Users friendly Software, Accurate, Menu driven software.
- ~ On-Line display of graph like Load, Displacement, Elongation.
- ~ Test results with your company name and company logo, date and time of the test.
- ~ Selectable units like N, KN, jgf, lbf, inch, mm, etc.
- ~ Fully automatic on screen calculations like UTS, YS, Proof stress, etc.
- ~ Electronic Extensometer (Optional) is available for 0.2% proof stress evaluation.
- ~ Standard Load resolution is with 1,00,000 counts.
- ~ Wide range of grips & accessories to suit different materials & tests.
- ~ Various Models - Maximum Capacity from 1 kN to 100 kN.

Difference between Ball Screw & Lead Screw



S.No	Ball Screw Driven Machine	Lead Screw Driven Machine
1.	More Precision movement <1 % Accuracy	>5 % Accuracy
2.	Double the life	
3.	Speed 0.0005 mm to 1000 mm / min	10-500 mm / min
4.	Servo Drive and Motor	Variable Frequency Drive
5.	Resolution is 5 Micron (.005 mm)	>0.2
6.	Noiseless operation	

Specifications	TECHNICAL SPECIFICATIONS					
	Model					
	TSI 100	TSI 500	TSI 1000	TSI 2000	TSI 5000	TSI 10000
Max.Capacity	100 Kg	500 Kg	1000 Kg	2000 Kg	5000 Kg	10000 Kg
Max.Crosshead traverse(mm)	600	650	800	850	900	1000
Max.Working width(mm)	150	200	350	400	500	500
Fixed and working upper & lower limit switches	√	√	√	√	√	√
Overall dimension H x W x D (mm) (Approx)	1200 x 500 x 500	1300 x 500 x 500	1600 x 850 x 600	1650 x 900 x 600	2000x 1000 x 650	2200 x 1100 x 700
Weight(kg)(Approx)	200	250	450	500	700	1200
Power Supply	1 Phase, 230 V, 50 Hz, AC					
Overload protection for load	√	√	√	√	√	√

Drive System	
Crosshead drive motor	VFD / AC Servo Motor & Drive
Crosshead Speed	0.0005 mm to 1000 mm per min
Crosshead Speed setting control	Thru Computer
Accuracy of Speed	± 1%



S.No	Electronic Extensometer	Long Travel Extensometer
1.	Suitable for metal & rigid materials	Suitable for Rubber, Leather & Yam
2.	Extension : Upto 2 mm	Extension : Upto 1800 mm
3.	Resolution : Better than 1 Micron(0.001mm)	Resolution : Better than 0.05 mm



Designed and Manufactured by

TSI TEC-SOL INDIA

4/323, Valluvar Salai, Ramapuram, Chennai - 600 089

Tel: 4266298, 42669268 / Mob : 9551281433

Email : tecsolindia@live.com

Website: www.tecsol-india.com

*Design subjected to change without intimation.