



FIE Dealer I  
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# Manual Spring Testing Machine

GENESS ENGINEERS

**Model - STM-97050**



## Technical Description :

'FIE' Spring Testing Machine Series STM – 97050 are PLC Based Electro - Mechanical Machines with hand driven cross head to study mechanical behavior of coil spring in tension and compression mode.

These machines offer built in load and displacement readings of coil spring under tensile and compressive load for standard tests & great flexibility for complex analysis.

## Features :

- Precision worm reduction gearbox and drive with ball lead screw gives smooth hand operation during test.
- PLC based instrumentation to measure & display load & displacement value.
- Provision for Load cell Interchangeability.
- Safety interlock for overload.
- Universal application in R & D, Education, Quality Control & Production for tension and Compression test in coil springs.

## Load Cells :

'FIE' offers Strain gauge type universal load cells in different capacities in the following nominal ranges :

100N, 250N, 1kN, 2.5kN, 5kN as per customers requirement.

## Grip and Clamping Devices :

- Compression Plates
- Tension Spring Adapters

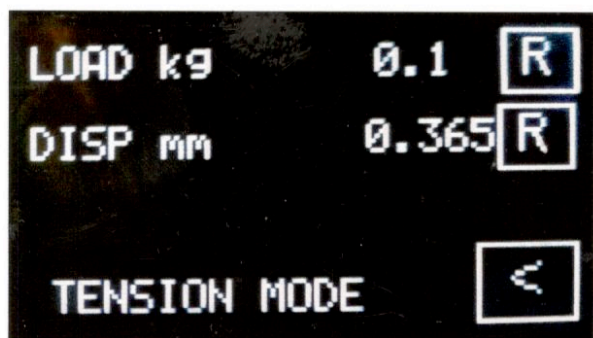
## Specifications :

Load Range	0-5 kN
Load Resolution	1/20,000 of nominal load cell connected.
Load Measuring Accuracy	±1% from 2% to 100% of nominal load of load cell used
Max. Cross head Stroke	400mm Without grips, Compression Plates & Load cell
Cross head Displacement Resolution	0.01mm

## Electronic Display Unit



Home Screen



Result Screen - Tension Test



Result Screen - Compression Test