

**Computer controlled
Automatic Spring Load Testing Machine**

Spring Load Tester

- ▶ Suitable for testing Compression and tension springs
- ▶ Force variants – 100N,500N,1000N,5000N,20KN
- ▶ Length – 150mm, 300mm,500mm
- ▶ Controlled directly through windows application
- ▶ Manual and Automatic modes
- ▶ Testing based on length or deflection
- ▶ Plug and Play setup – Comes with Windows PC, Monitor, Wire less keyboard and mouse
- ▶ 5000N and above machines are with double columns
- ▶ Overload and over travel protection

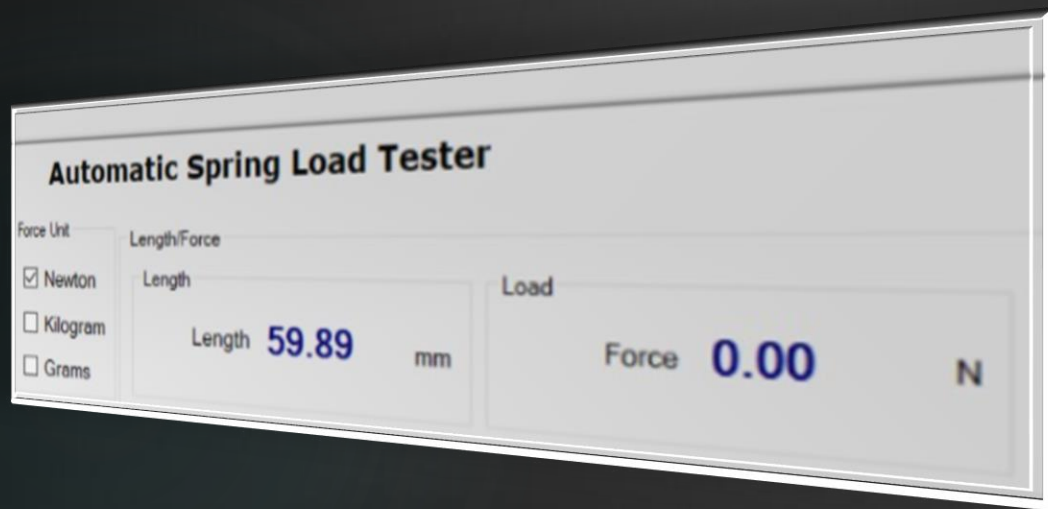


Technology

- ▶ Control system developed using cutting edge embedded system technology
- ▶ Precision stepper motor and driver up to 1000N.
- ▶ Servo motor/Drive with Gearbox for machines above 1000N.
- ▶ High quality Ball screws supported with LM guides provide a smooth linear movement
- ▶ Rotary encoder for precise and closed loop length measurement
- ▶ High quality Load cell with easy one click calibration option
- ▶ Advanced and user-friendly windows application
- ▶ A mini windows PC with lifetime Windows 10 license
- ▶ Heavy and sturdy body provides vibration less linear movement
- ▶ Powder coating with structure finish gives a premium look to the machine.



Resolution and Units



- ▶ Length controllable at a resolution of 0.01 mm
- ▶ Resolution of force 100 N - 0.01N, 1000 N – 0.1N, 5000N /20KN– 1N
- ▶ Deviation not more than 0.5%
- ▶ Unit of length is in milli meter and Inches.
- ▶ Unit of Force is selectable between Newtons(N), Grams(Gm),Kilograms(Kgf) and Lbs.

Windows app features



- ▶ Database to store more than 1000 spring specifications
- ▶ Automatic testing of force up to 5 set points (L1 to L5)
- ▶ Option to include the Min and Max values of force as per spec to get "Passed" or "Fail" result during testing
- ▶ Automatic calculation of Spring rate
- ▶ Chart Length Vs Load up to 5 samples
- ▶ Test report generated in pdf format for up to 5 samples
- ▶ Easily move to any length using "Go to" option
- ▶ Option to Scrag(PRESET) the springs before testing the load.

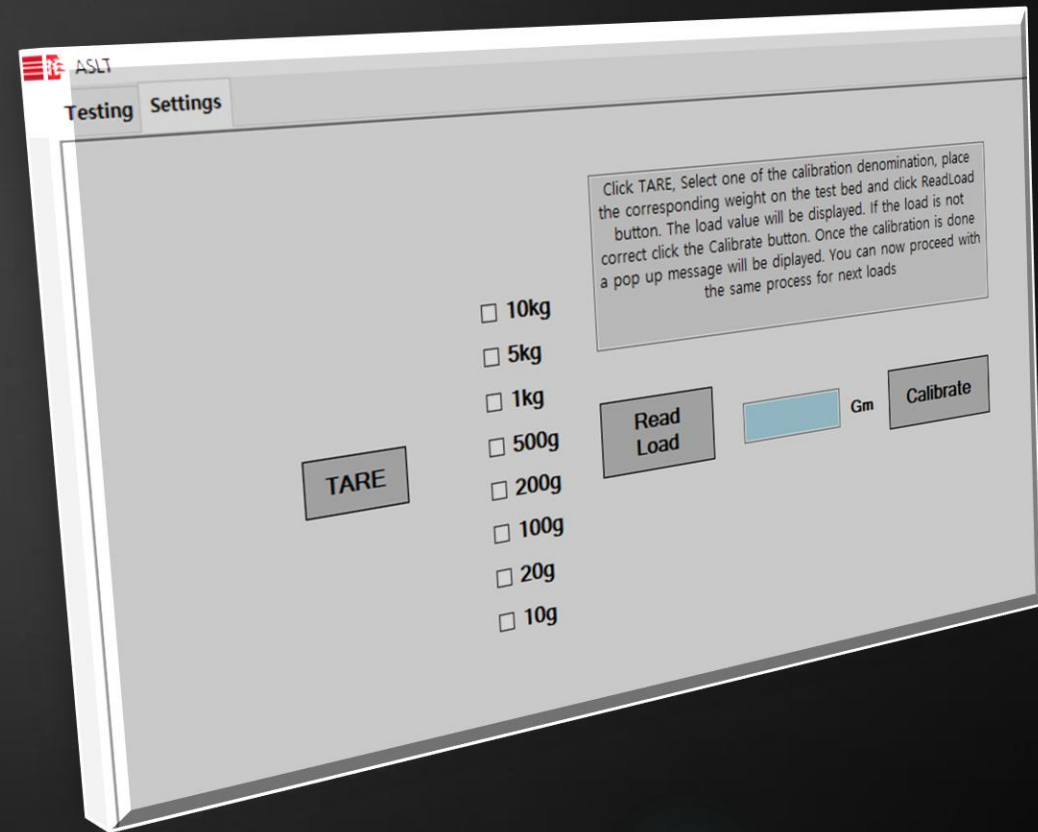
Manual operation



- ▶ For simple testing, the machine comes with an UP and DOWN push button
- ▶ The length of each movement is selectable starting from 0.1mm till 5mm through the windows app
- ▶ These length are configurable as per customer request.

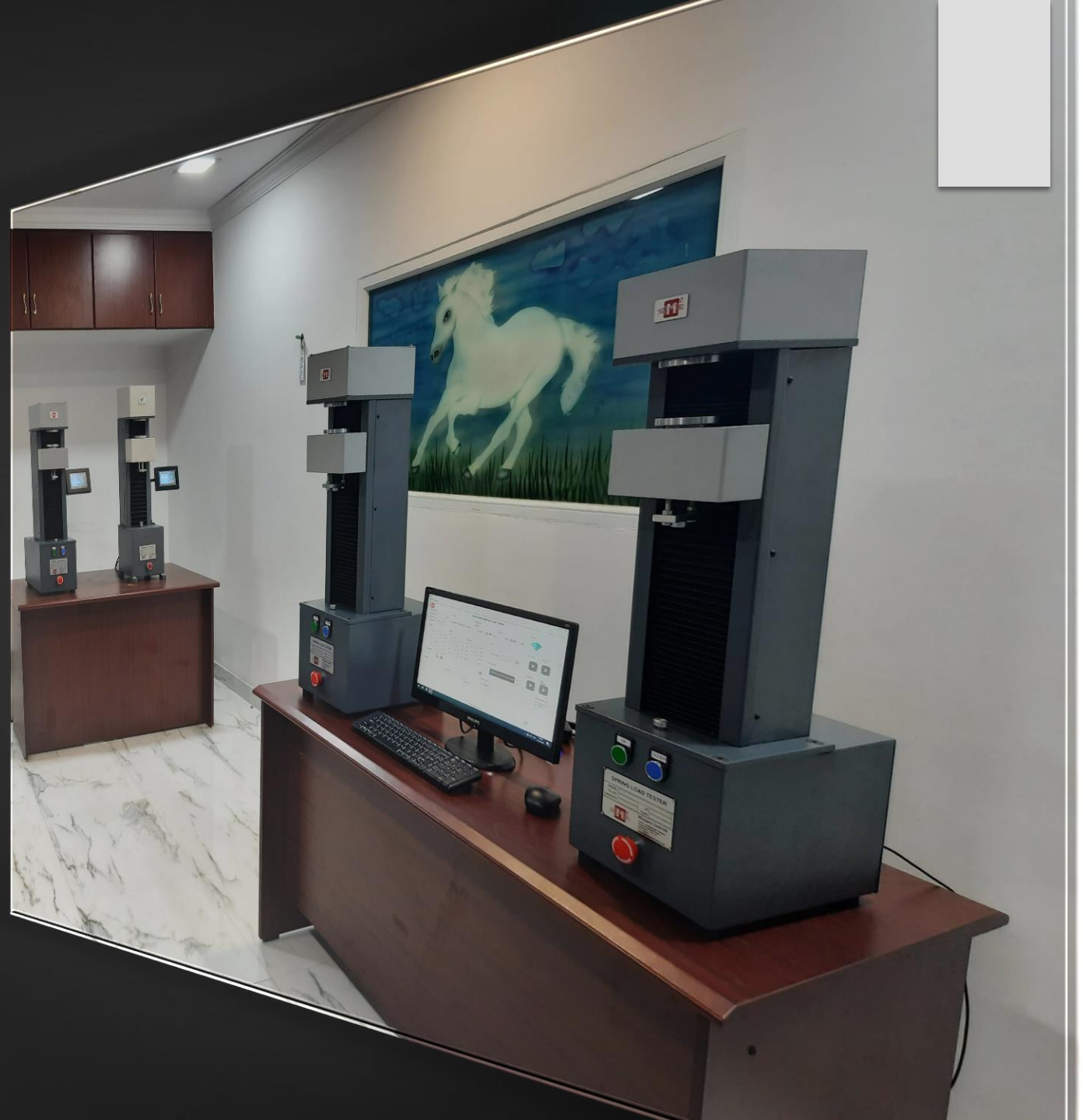
Self calibration

- ▶ There is a special feature in our machine that allows the customer to self calibrate the machine with just a click of a button
- ▶ Use any calibrated dead weight for this purpose
- ▶ This way there is ZERO down time for calibration purpose.

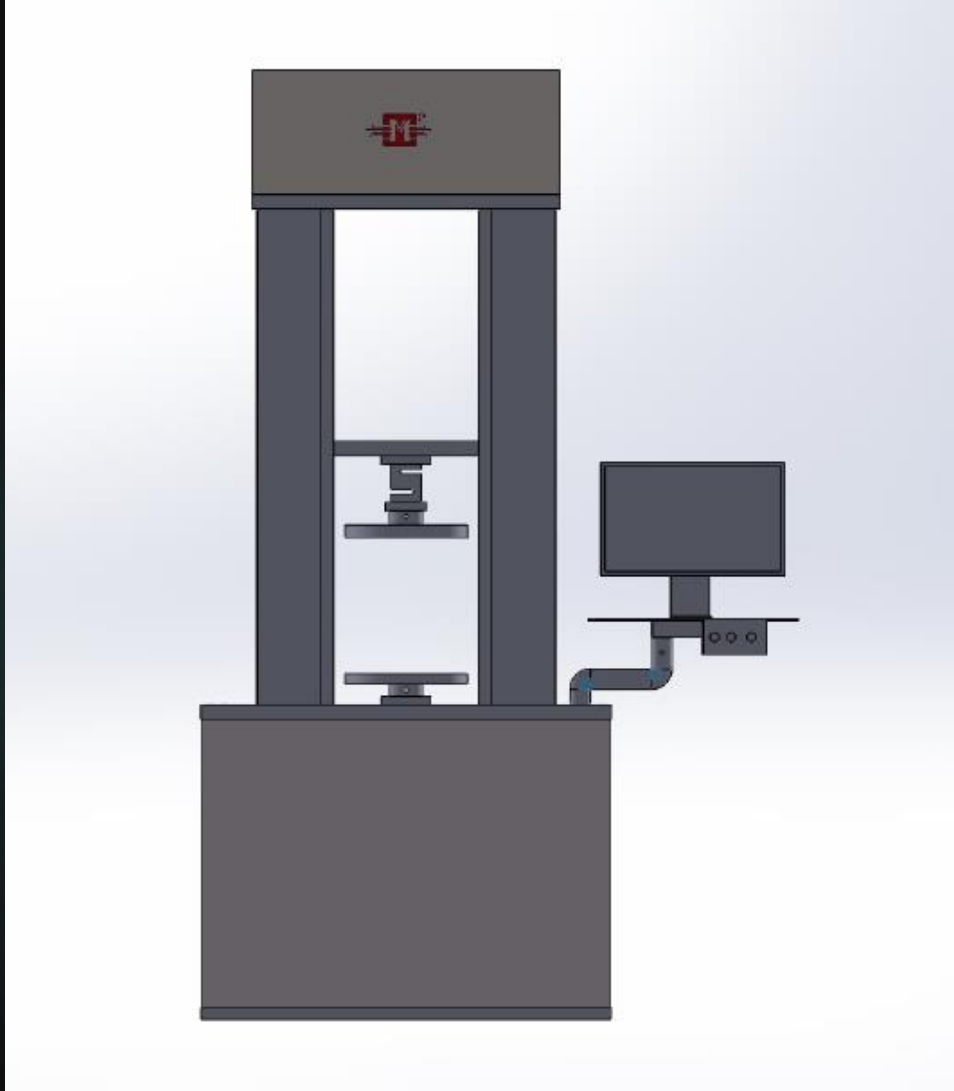


Customers

- ▶ ELGI – Coimbatore (50Kg)
- ▶ McWane India – Sri City (100Kg)
- ▶ Sunkid – Chennai (50Kg)
- ▶ INZI Controls – Chennai(50Kg)
- ▶ Sriram Springs – Coimbatore (100 Kg)
- ▶ Hitech Springs – Coimbatore (100 Kg)
- ▶ Royal Testing – Chennai(50 Kg)
- ▶ Springs India – Coimbatore (500Kg)
- ▶ Excel Springs – Bangalore (100Kg)



2MT Spring Load tester - Features



- Double column structure with dual ball screw drive.
- Servo motor/drive with Gear box for high torque.
- S type load cell to test both compression and tensile forces.
- Windows PC with our latest Spring load testing application installed.
- 18.5 inch LCD monitor, wireless keyboard and mouse
- Optional MPG for manual jog.
- Over load and Over travel protection.
- Customized template for the reports with customer logo.
- Printer connectivity to print the reports.
- 1 year warranty

M2Controls - Benefits

- ▶ Fully designed and developed in India including the Software.
- ▶ Immediate availability for support and issues.
- ▶ No calibration down time (Self calibration feature).
- ▶ Customization of reports and application.
- ▶ No hidden cost, No separate cost for the software.
- ▶ Comes as a Plug n Play setup.
- ▶ Safety features – Overload protection, Over travel protection (Both in software and using sensors).

Contact

Manikandan Vaiyapuri

Founder

MSquare Controls,

No 3/24B, Varathaiangar Palayam,
Kondaiampalayam Road, Coimbatore 641110

India. Phone : 9791784040

Email : manikandan@msquarecontrols.com

Website : www.msquarecontrols.com

