



Single Column Tensile Testing Machine

- ▶ PC based Automatic Tensile strength testing machine
- ▶ Tabletop model saves space
- ▶ High Speed controller
- ▶ High resolution data measurement
- ▶ User defined test procedure allows user to develop test procedures as per ASTM, ISO, JIS, EN, GB, BS, CNS and other International Standards.
- ▶ **Typical specimens:** plastics, fine wire, fibers and threads, biomaterials, thin films, adhesives, foam, packaging, paper products, consumer products



Technical Specification

Type	Single column
Capacity	5 N, 10N, 100N, 1kN, 5kN, 10kN,
Force accuracy	0.1%
Force Resolution	20 lakhs count (Best resolution in the industry)
Displacement	500 mm, 750 mm, 1000 mm
Displacement Resolution	0.0001 mm
Pace rate	0 – 500mm/min

Product Info

The Single column testing machine are suitable for the flexible specimens which will have high elongation at low breaking force which have less than 5kN.

It can be used in both tension and compression strength tests. Compact Tabletop model requires less space. It is highly precise and robust for the usage in research and quality testing laboratory and production unit.

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Features:

- Robust linear motion guide increases lateral stiffness and ensure linear crosshead travel. This results in accurate crosshead alignment thus reducing variability in measurement data and producing better overall accuracy.
- servo motor with precise planetary gear speed reducer provides higher driving efficiency, low noise and free of maintenance.
- Compact design saves lab space.

Performance :

- Pre-loaded ball screws and heavy-duty bearings assure long life with zero backlash as well as linear low force and through zero performance. The result is accurate and repeatable measurements that truly represent the specimen characteristics rather than load frame deficiencies.
- Fully protected lead screw with dust covers provide longer life and greater operator protection.

- Easy-to-clean aluminum column covers with chamfered corners to facilitate access to the test area. T-slots are built in for simple, convenient attachment and positioning of testing accessories.
- High-speed, low vibration, world-class, maintenance-free, AC servo motor and servo controller.
- Photoelectrical encoder built in servo motor system is for position measurement of crosshead.
- Built-in bidirectional load cell is assembled in the middle crosshead to prevent any collisions and simple to perform compression or tension tests
- Dual action over-travel limits on all frames provide the highest level of safety and meet all international standards.
- Remote control keypad facilitates test operation
- Full one-year warranty
- Free software upgrade

Electronics Controller

- 100kHz high loop speed controller
- Highest load resolution
- Precise control
- Load and displacement mode
- Precise rate of speed control
- PC based software. Easy interface. Live graph, Measurements, calculations, report generation.
- User defined test procedure allows user to develop test procedures as per ASTM, ISO, JIS, EN, GB, BS, CNS and other International Standards.