



ELECTROMECHANICAL UNIVERSAL TESTING MACHINE SERIES A

RoboTest Series A Electromechanical Universal Testing Machine addresses the needs of standardized and routine testing, providing the user high quality at the most affordable price. The single column testing systems are suited for tension and/or compression applications where tests are less than 5 kN and lab space is limited. They are typically used for quality control and production testing.

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
- Non-clutched drives, rated for full speed at maximum force
- 1000mm/min crosshead speed improves test efficiency
- Compact design saves lab space





HIGH QUALITY AT AFFORDABLE PRICE

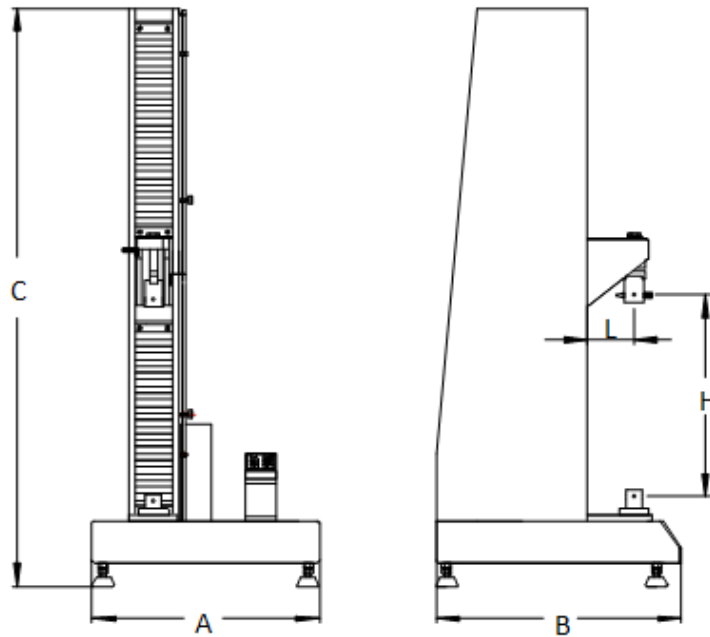
- Pre-loaded ball screws and heavy duty bearings assure long life with zero backlash as well as linear low force and through zero performance. The result is accurate and repeatable measurements that truly represent the specimen characteristics rather than load frame deficiencies
- Fully-protected lead screw covers provide longer life and greater operator protection
- High-speed, low vibration, world-class, maintenance-free, Japanese made 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
- DTC-350 controller provides high speed data acquisition with 8-CH A/D converting
- Full one-year warranty on parts and labor
- Free software upgrading



FULL COMPLEMENT OF TEST ACCESSORIES

Extensive range of accessories to meet test requirements in almost any application or industry: plastics, metals, biomedical, composites, elastomers, components, automotive, aerospace, textiles, and more.

- Tension grip
- Peel/tear fixture
- Compression fixture
- Flexure fixture
- Film COF test fixture
- Exchangeable load cells: 10N~2
- Long travel extensometer
- Clip-on extensometer





MACHINE DIMENSION

Frame type	Width x Depth x Height A x B x C (mm)	Crosshead travel H (mm)	Front opening space L (mm)	Adapter (mm)	Pin (mm)
Standard	490×530×1290	700	100	Φ20	Φ10
300mm Extended	490×530×1590	1000	100	Φ20	Φ10

SPECIFICATIONS

Model	RETM-501A, RETM-102A, RETM-202A, RETM-502A, RETM-103A, RETM-203A, RETM-503A
Type	Series A, single column
Capacity	50N, 100N, 200N, 500N, 1kN, 2kN, 5kN
Calibration standard	ISO 7500, Class 1 / Class 0.5
Force range	0.2% ~ 100%FS / 0.4% ~ 100%FS
Force accuracy	±1% / 0.5% of reading
Force resolution	1/350000FS
Position accuracy	0.5% of reading
Position resolution	0.042μm
Crosshead speed	0.001 ~ 1000mm/min
Crosshead speed accuracy	±1.0% / ±0.5% of set speed
Crosshead travel	700mm (can be extended to 1000mm)
Dimension	530mm×490mm×1290mm (1590mm for 1000mm crosshead travel)
Power requirements	AC220V±10%, 50/60Hz, 200W
Weight	90kg