



## ELECTROMECHANICAL UNIVERSAL TESTING MACHINE SERIES C

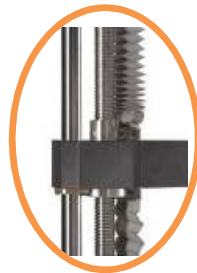
RoboTest Series C Electromechanical Universal Testing Machine addresses the needs of standardized and routine testing, providing the user high quality at the most affordable price. The dual column testing systems are suited for tension and/or compression applications with load range requirements from 20kN to 50kN. They are typically used for quality control and production testing.

### TYPICAL SPECIMENS

Small components, reinforced plastics, metals, wire, composites, elastomers, wood products, textiles, biomaterials, paper products, adhesives, foam, consumer products

### ENVIRONMENTAL SIMULATION

Environmental chamber





## FEATURES

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- Robust guidance columns increase 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
- Compact design saves lab space
- Wider test width

## HIGH QUALITY AT AFFORDABLE PRICE

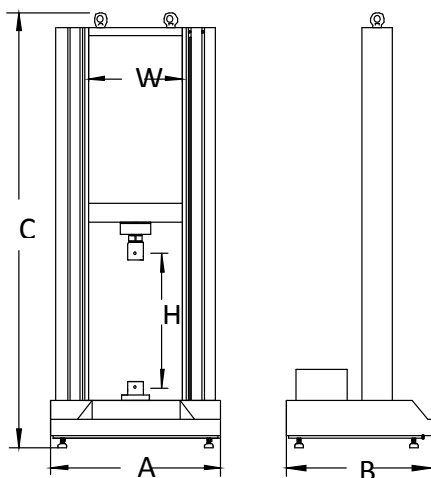
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- Pre-loaded ball screws and heavy duty bearings assure long life with zero backlash as well as linear low force and through zero performance. The result is accurate and repeatable measurements that truly represent the specimen characteristics rather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

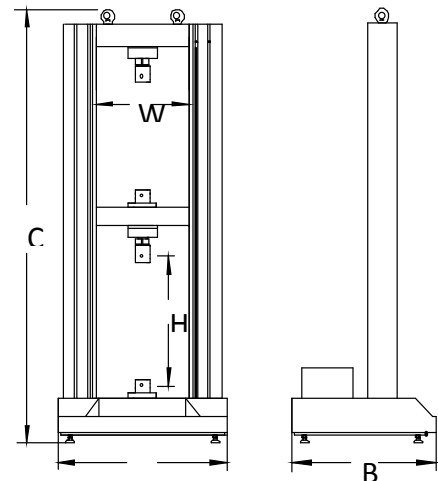
## FULL COMPLEMENT OF TEST ACCESSORIES

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
- S type load cells: 10N~5kN
- Long travel extensometer
- Clip-on extensometer
- Environmental chamber
- T-slot table



Single test space



Dual test space



## MACHINE DIMENSION

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Test space	Frame type	Width x Depth x Height A x B x C (mm)	Crosshead travel H (mm)	Test width W (mm)
Single	Standard	775×660×1740	1100	420
Single	300mm Extended	775×660×2040	1400	420
Dual	Standard	775×660×1802	1000	420
Dual	300mm Extended	775×660×2102	1300	420

**Adapter:** 20kN, 30kN:  $\Phi$ 20mm, 50kN:  $\Phi$ 40mm

**Pin:** 20kN, 30kN:  $\Phi$ 10mm, 50kN:  $\Phi$ 18mm



## SPECIFICATIONS

Model	RETM-103C, RETM-203C, RETM-503C, RETM-104C, RETM-204C, RETM-304C, RETM-504C
Type	Series C
Capacity	1kN, 2kN, 5kN, 10kN, 20kN, 30kN, 50kN
Calibration standard	ISO 7500, Class 1 / Class 0.5
Force range	0.2% ~ 100%FS / 0.4 ~ 100%FS
Force accuracy	±1.0% / ±0.5% of reading
Force resolution	1/350000FS
Position accuracy	±0.50% of reading
Position resolution	0.06μm
Crosshead speed	0.001 ~ 500mm/min
Crosshead speed accuracy	within ±1.0% / ±0.5% of set speed
Crosshead travel	1150mm (Can be extended to 1450mm)
Test width	420mm
Dimension (Width x Depth x Height)	775×660×1735mm (Single test space) 775×660×1802mm (Dual test space)
Power requirements	220V±10% AC, 50/60Hz, 850W
Weight	400kg