

ELECTROMECHANICAL UNIVERSAL TESTING MACHINE SERIES D

RoboTest Series D 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 with rugged structure are suited for tension and/or compression applications with load range requirements from 50kN to 600kN. They are typically used for quality control and production testing.

TYPICAL SPECIMENS

Metals, building components, large fasteners, composites, wood products

FEATURES

- 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

- 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. Tslots 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
- 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
- Free software upgrading.

Various frames to satisfy your test needs from low force to high force

Heavy duty load frame 200/300kN is available with single and dual test space, saving time and labor to change fixtures when frequently performing tension and compression/flexure tests.

Standard equipped with wedge action tensile grip, and optional hydraulic tensile grip is available.

Heavy duty load frame 500/600kN is dual test space equipped with hydraulic tensile grip for large and high strength specimen

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200/300kN

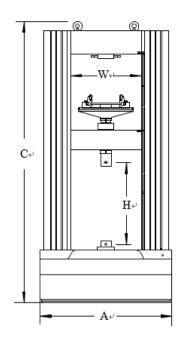
500/600kN

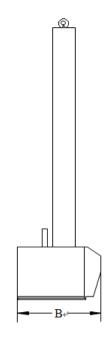


FULL COMPLEMENT OF TEST ACCESSORIES

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
- Furnace
- T-slot table
- Others







Machine frame	Grip Adapter	Pin	
RETM-504D, RETM-105D	Ф40mm	Ф18mm	
RETM-205D, RETM-305D	, RETM-305D Ф60mm Ф2		
RETM-505D, RETM-605D	M64 x 4 s	crew	
	connection		



MACHINE DIMENSION: RETM-504D, RETM-105D

		Width x Depth x	Crosshead	Test
Test space	Frame type	Height	travel	width
		A x B x C (mm)	H (mm)	W (mm)
	Standard	1145×765×2340	1150	600
Single	Extended	1145×765×2640	1450	600
	frame	1145×705×2040	1430	
Dual space	Standard	1145×765×2340	1050	600
Upper compression lower	Extended	1145×765×2640	1350	600
tension	frame	1145×705×2040	1330	000
Dual space	Standard	1145×765×2340	1150	600
Upper tension lower	Extended	1145×765×2640	1450	600
compression	frame	1143^/03*2040	1430	000

MACHINE DIMENSION: RETM-205D, RETM-305D

Test space	Frame type	Width x Depth x Height A x B x C (mm)	Crosshead travel H (mm)	Test width W (mm)
	Standard	1210×770×2600	1200	650
Single	Extended frame	1210×770×2900	1500	650
Dual space	Standard	1210×770×2600	1150	650
Upper compression lower tension	Extended frame	1210×770×2900	1450	650
Dual space	Standard	1210×770×2600	1150	650
Upper tension lower compression	Extended frame	1210×770×2900	1450	650

MACHINE DIMENSION: RETM-505D, RETM-605D

		Width x Depth x	Crosshead	Test
Test space	Frame type	Height	travel	width
		A x B x C (mm)	H (mm)	W (mm)
Dual space	Standard	1535×1175×3000	1400	700
Upper compression lower	Extended	1535×1175×3300	1700	700
tension	frame	1333/11/3/3300	1700	700



SPECIFICATIONS

Model	RETM-504D	RETM-105D	RETM-205D	RETM-305D	RETM-505D	RETM-605D
Туре	Series D					
Capacity (kN)	50 100 200 300 50		500	600		
Calibration standard	ISO 7500, Class 1 / Class 0.5					
Force range	0.2% ~ 100%FS / 0.4 ~ 100%FS ±1.0% / ±0.5% of reading 1/350000FS ±0.50% of reading					
Force accuracy						
Force resolution						
Position accuracy						
Position resolution (μm)	0.025 0.014					
Crosshead speed (mm/min)	0.001 ~ 500					
Crosshead speed accuracy	within ±1% / ±0.5% of set speed					
Crosshead travel (mm)	1150 1200 140		400			
Test width (mm)	600		65	50	700	
Dimension (mm)	1145x765x2340 1210x770x2600 1535x1175x		175x3000			
Power requirements	AC380V±10%, 50/60Hz					
Power consumption	1.5kW 5kW 5.5l		5kW			
Weight (kg)	120	00	15	00	2	000