

# ETM Type D | Dual Column | Floor Standing

The ETM type D Series 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

**Environmental simulation:** Environmental chamber and high temperature furnace

## New 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. T-slots are built in for simple, convenient attachment and positioning of testing accessories
- High-speed, low vibration, world-class, maintenance-free, imported 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 on parts and labor
- Free software upgrading



50/100kN

**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.

**Full complement of test accessories**



200/300kN

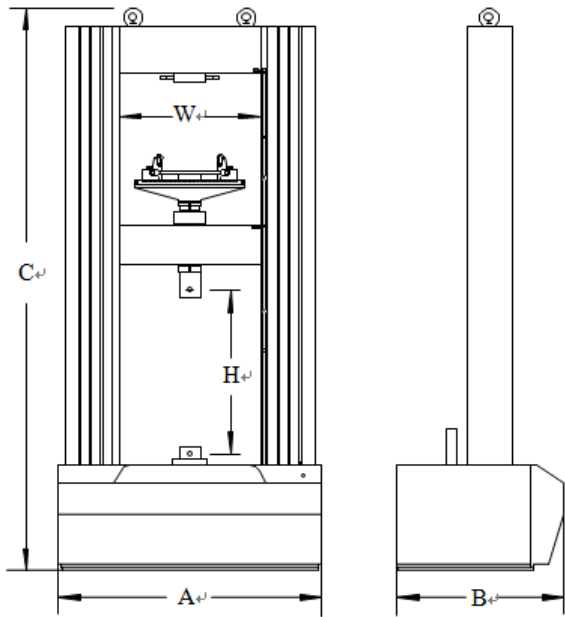


500/600kN

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~50kN
- Long travel extensometer
- Clip-on extensometer
- Auto-extensometer
- Environmental chamber
- Furnace
- T-slot table
- Others





Machine frame	Grip Adapter	Pin
ETM504D, ETM105D	Φ40mm	Φ18mm
ETM205D, ETM305D	Φ60mm	Φ28mm
ETM505D, ETM605D	M64 x 4 screw connection	

**Machine dimension: ETM504D ETM105D**

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	1145×765×2340	1150	600
	Extended frame	1145×765×2640	1450	600
Dual space Upper compression lower tension	Standard	1145×765×2340	1050	600
	Extended frame	1145×765×2640	1350	600
Dual space Upper tension lower compression	Standard	1145×765×2340	1150	600
	Extended frame	1145×765×2640	1450	600

**Machine dimension: ETM205D ETM305D**

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	1210×770×2600	1200	650
	Extended frame	1210×770×2900	1500	650
Dual space Upper compression lower tension	Standard	1210×770×2600	1150	650
	Extended frame	1210×770×2900	1450	650
Dual space Upper tension lower compression	Standard	1210×770×2600	1150	650
	Extended frame	1210×770×2900	1450	650

**Machine dimension: ETM505D ETM605D**

Test space	Frame type	Width x Depth x Height A x B x C (mm)	Crosshead travel H (mm)	Test width W (mm)
Dual space	Standard	1535×1175×3000	1400	700

# ETM Type D | Dual Column Floor-standing | 50kN~600kN

Upper compression lower tension	Extended frame	1535×1175×3300	1700	700
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## Specifications:

Model	ETM504	ETM105	ETM205	ETM305	ETM505	ETM605
Type	Type D					
Capacity (kN)	50	100	200	300	500	600
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	1/500000FS					
Position accuracy	±0.50% of reading					
Position resolution (μm)	0.025	0.014		0.021		
Crosshead speed (mm/min)	0.001 ~ 500		0.001 ~ 250			
Crosshead speed accuracy	within ±1% / ±0.5% of set speed					
Power requirement	Three-phase, 380±10% VAC, 50/60Hz					
Power consumption	1.5kW		5kW		5.5kW	
Weight (kg)	1200		1500		2000	

## Shipping information:

Model	ETM504,ETM105	ETM205,ETM305	ETM505,ETM605
Package	Fumigated wooden case		
Crated dimension (WidthxDepthxHeight)	2490*1220*930mm	2760*1340*930mm	2860*1510*1372mm
Crated weight	1300kg	1600kg	2200kg
Lead time	60 working days	60 working days	90 working days



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