

> Web: www.auscal.com.au Email: acs@auscal.com.au A.B.N. 33 623 153 736



TruForce

EM Univeral Testing Machine | TF-ETM-D | 50kN ~600kN

TruForce TF-ETM-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. Tslots are built in for simple, convenient attachment and positioning of testing accessories
- High-speed, low vibration, worldclass, 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-500 controller provides high speed data acquisition with 8-CH A/D converting
- Full one-year warranty on parts and labor



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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

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~50kN
- Long travel extensometer

- Clip-on extensometer
- Auto-extensometer
- Environmental chamber
- Furnace
- T-slot table
- Others



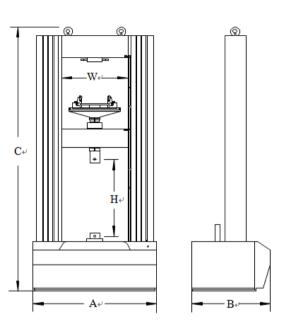


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Machine frame	Grip Adapter	Pin	
AC2012-ETM504D	Ф40mm	ф10mm	
AC2012-ETM105D	Ψ40ΠΠ	Ф18mm	
AC2012-ETM205D	Ф60mm	Ф28mm	
AC2012-ETM305D	Ψουπιπ	ΨΖΟΠΠΠ	
AC2012-ETM505D	M64 x 4 screw		
AC2012-ETM605D	connection		

Machine dimension: AC2012-ETM504D / AC2012-ETM105D

Test space	Frame type	Width x Depth x Height A x B x C (mm)	Crosshead travel H (mm)	Test width W (mm)
Cinalo	Standard	1145×765×2340	1150	600
Single	Extended frame	1145×765×2640	1450	600
Dual space	Standard	1145×765×2340	1050	600
Upper compression lower tension	Extended frame	1145×765×2640	1350	600
Dual space	Standard	1145×765×2340	1150	600
Upper tension lower compression	Extended frame	1145×765×2640	1450	600

Machine dimension: AC2012-ETM205D / AC2012-ETM305D

Test space	Frame type	Width x Depth x Height A x B x C (mm)	Crosshead travel H (mm)	Test width W (mm)
Circ all a	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: AC2012-ETM505D / AC2012-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
Upper compression lower tension	Extended frame	1535×1175×3300	1700	700

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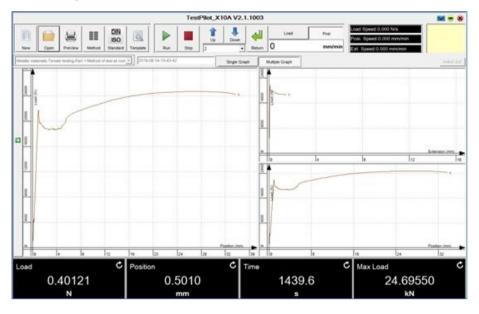
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Two steps to start testing: select a project, press start

This software features a large, growing host of pre-packaged test methods to help you quickly and efficiently meet the requirements of global test standards such as ASTM, ISO, DIN, EN, BS,

and more. Selected by an operator at runtime, these methods are crafted to meet the specific test flow, analysis and reporting requirements of industry standards across a range of specimen and test types. Pre-packaged test methods are available in a wide selection of bundled sets, including: Polymers & Plastics, Metals, Construction Materials, Biomedical Products, Paper Products, Adhesives, foam, textiles and more.



- Versatile, easy-to-use TruTest software with a large and growing library of standards-compliant test methods (ASTM, ISO, DIN, EN, BS, and more)
- Modular design permits easy upgrading
- Plenty of test standards are built in the library of the software for routine tests.
- User configured report: user can preset report template and include necessary information, like company information, statistics, and etc. Test report can export to Excel or Word.
- Powerful graphic function: real time display curves, like displacement-load, stress-strain, displacement-time, load-times, and others
- Powerful analysis function can calculate typical value and display on the curve, like Fm, ReL, ReH, Rp.
- Measurement unit: Users can select SI, or others, like N, kN, kgf, lbf, MPa, and so on, user can define the unit by themselves using formula.

Modular design is simple for operation and upgrading





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Specifications:

contrations.							
Model	TF- ETM504	TF- ETM105	TF- ETM205	TF- ETM305	TF- ETM505	TF- ETM605	
Type	E1101304	ETIVITO5		pe D	E I IVISUS	ETW003	
Type			1)	De D			
Capacity (kN)	50	100	200	300	500	600	
Calibration standard		I	SO 7500, Cla	ss 1 / Class (0.5		
Force range		0.2	2% ~ 100%FS	5 / 0.4 ~ 1009	%FS		
Force accuracy			±1.0% / ±0.5	5% of reading)		
Force resolution			1/350	000FS			
Position accuracy	±0.50% of reading						
Position resolution (µm)	0.0	0.025			0.014		
Crosshead speed	0.001	~ 500	0.001 ~ 250				
(mm/min)							
Crosshead speed accuracy		wi	thin ±1% / ±0.	5% of set sp	eed		
Crosshead travel (mm)	11	50	120	0 1400		00	
Test width (mm)	600		65	0	700		
Dimension (mm)	1145x76	65x2340	1210x77	0x2600	1535x1175x3000		
Power requirements	AC380V±10%, 50/60Hz						
Power consumption	1.5	kW	5k'	W	5.5	kW	
Weight (kg)	12	00	150	00	20	00	

Shipping information:

Model	TF-ETM504	TF-ETM205	TF-ETM505	
Model	TF-ETM105	TF-ETM305	TF-ETM605	
Package	Wo	tion		
Crated dimension	1220*930*2490mm	1340*930*2760mm	2860*1510*1372mm	
(WidthxDepthxHeight)	1220 930 249011111	1340 930 270011111		
Crated weight	1000kg	1200kg/1600kg	2800kg/3800kg	
Lead time	60 working days	60 working days	90 working days	