

Ring Stiffness Testing Machine | ETM Type R

The ETM type R Series with larger test space is specifically designed for plastic pipe ring stiffness testing. Equipped with suitable test grips and fixtures, it can address 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 to 100kN. They are typically used for quality control and production testing.

Typical specimens: Plastic pipe, small components, reinforced plastics, metals, wire, composites, elastomers, wood products, textiles, biomaterials, paper products, adhesives, foam, consumer products

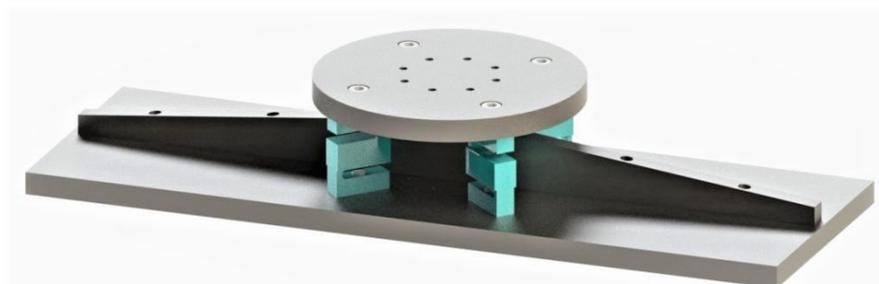
Standards: ISO9969, ISO 13968, EN 13476, EN 1453, BS EN 1228, BS EN 1446, ASTM D2412

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
- 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.
- 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
- Non-clutched drives, rated for full speed at maximum force
- 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
- Controller provides high speed data acquisition with 8-CH A/D converting
- Full one-year warranty on parts and labor
- Free software upgrading



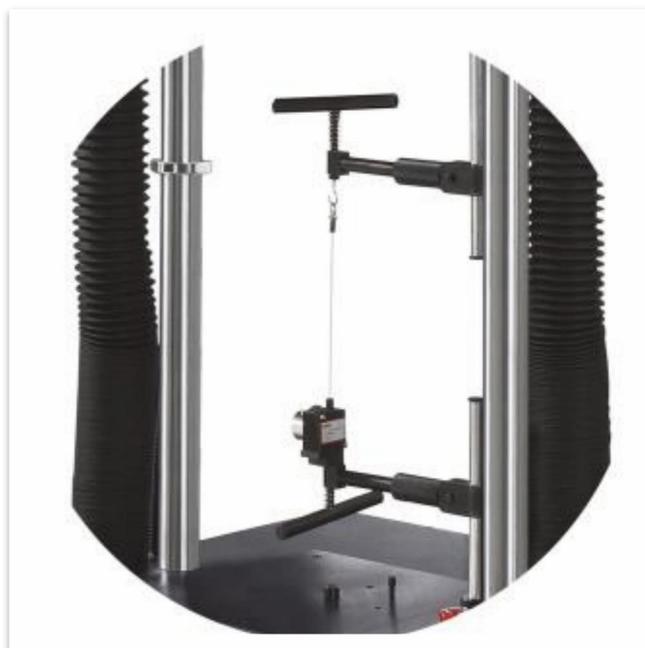
Load cell



- High precision uses four high-precision imported load cell to ensure test accuracy while improving system stability;
- Provide overload and lateral load protection, pull and pressure two-way use, can better meet the test needs;
- The high precision load sensor can reach the measurement accuracy of 0.04%FS;
- With superior environmental adaptability, temperature compensation range: -10~45°C.

Inside diameter measurement device

The inside diameter measuring device of the testing machine adopts photoelectric encoder to collect the change displacement of the inside diameter of the tube sample. The device has the advantages of fast sample clamping, convenient and simple use, fast reflection speed and high measurement accuracy to the change of the inner diameter of the pipe, and can reflect the change of the inner diameter of the pipe in real time, and generate the corresponding change curve of the inner diameter through software. The upper and lower platen sizes are 30x1020x350 and 30x1100x400 respectively, which can meet the ring stiffness and ring flexibility test requirements of almost all pipes.



Inside diameter measurement extensometer

Specifications:

Model	ETM504	ETM105
Type	Type R	
Capacity (kN)	50	100
Calibration standard	ISO 7500, Class 0.5	
Force range	0.4% ~ 100%FS	
Force accuracy	±0.5%	
Force resolution	1/500000FS	
Position accuracy	±0.50%	
Crosshead travel	250~2000	
Position resolution (μm)	0.02	
Crosshead speed (mm/min)	0.005 ~ 500	
Crosshead speed accuracy	within ±0.5% of set speed	
Maximum compression space (mm)	2500	
Test width (mm)	1050	
Inner diameter measurement range (mm)	250~2000	
Inner diameter measurement accuracy (mm)	0.01	
Outside diameter measurement range (mm)	300~2500	
Dimension (mm)	1690x850x3230	
Power requirements	Single-phase, 220V, 50Hz, 1.3kW	
Weight (kg)	1500	

Standard accessories

Name	Description	Quantity
Load frame		1 set
Load cell		4 pcs
Controller	DTC-500	1 set
Software	Testpilot, English version	1 set
Tool kits	Maintenance tool	1 set
Compression fixture	Upper: 1050x450mm Lower: 1050x500mm	1 pair
Inner diameter measurement extensometer		1 set



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