

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 requirements from 30kN 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
- 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.



Wedge action tensile grip



Compression fixture



Bending fixture



Inside diameter measurement extensometer

Specifications:

Model	ETM304, ETM504	ETM105
Type	Type R	
Capacity (kN)	30, 50	100
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%	
Force resolution	1/500000FS	
Position accuracy	±0.50%	
Position resolution (µm)	0.06	
Crosshead speed (mm/min)	0.001 ~ 500	
Crosshead speed accuracy	within ±1.0% / ±0.5% of set speed	
Crosshead travel (mm)	600~2500	
Compression space (mm)	2500	
Test width (mm)	1000	
Inner diameter measurement range (mm)	250-2000	
Inner diameter measurement accuracy (mm)	0.01	
Outside diameter measurement range (mm)	300-2500	
Dimension (mm)	1420×830×3225	1690x850x3230
Power requirements	1-phase, 220V, 1.3kW	
Weight (kg)	1500	

Standard accessories

Name	Description	Quantity
Load frame		1 set
Load cell		1 set
Controller	DTC-500	1 set
Software	Testpilot, English version	1 set
Tool kits	Maintenance tool	1 set
Compression fixture	Upper platen: 30x1050x350mm Lower platen: 30x1100x400mm	1 pair
Inner diameter measurement extensometer		1 set



Shenzhen Wance Testing Machine Co., Ltd.

No.9, Shuiku Road, Tangwei, Guangming District, Shenzhen 518132, China

Tel: +86-755-23057280 Fax: +86-755-23057995

Email: sales@wance.net.cn

www.wance.net