

RING STIFFNESS TESTER TORONRST™ - SERIES



Ring Stiffness Tester ToronRST™ - Series is crafted to measure ring stiffness, ring flexibility, and creep ratio in line with relevant standards. It accommodates samples up to 3000 mm, providing precise and reliable testing capabilities for a range of applications.

APPLICATIONS

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- **Plastic Pipe Manufacturing** - Testing the stiffness, flexibility, and creep ratio of plastic pipes (PVC, PE, PP, and composite pipes) to ensure compliance with international standards such as ISO, ASTM, and EN.
- **Civil Engineering & Infrastructure** - Evaluation of large-diameter drainage, sewage, and water supply pipes to guarantee long-term structural reliability under soil and traffic loads.
- **Municipal & Utility Services** - Verification of underground piping systems used in water distribution, sewage networks, and stormwater management for durability and safety.
- **Industrial Piping Systems** - Quality assessment of chemical-resistant and pressure-bearing plastic pipes used in industrial plants and processing facilities.

- **Quality Control & Certification Bodies** - Accredited laboratories can use the system for routine compliance testing, certification, and batch verification of pipe products.
- **Research & Development** - Academic and industrial R&D centers can utilize the system for studying new pipe materials, designs, and reinforcement methods to improve performance and sustainability.

FEATURES

Ring Stiffness Tester ToronRST™ - Series Features

The inner diameter measuring device continuously tracks inside diameter deformation, ensuring accurate data collection. PC-based control software allows for straightforward operation and clear visualization of results. The system applies the specified test load automatically, supported by a double-column, high-rigidity structure that enhances stability. An advanced closed-loop AC servo control system provides precise and stable control. Multiple load sensors, arranged in a bridge configuration, improve resistance to deflection in large pipes and reduce the likelihood of load sensor damage.

Application Software Features

1. The modular design makes the software easy to update.
2. Includes functionality for setting coordinates and saving graphs in various formats.
3. An in-line calibration module simplifies the calibration process.
4. Allows printing of test reports with customizable parameters.
5. Free online updates keep the software current.
6. *Optional Creep Ratio Test*: When paired with the XWW electric system, the software supports creep testing, including generating test plots, controlling and monitoring the test, analyzing data, and printing test records.

TECHNICAL SPECIFICATIONS

Test Parameters	ToronRST™ -2000 Series	ToronRST™ -3000 Series
Max. Force	50KN / 100KN/ 200KN	
Load measuring range	0.2-100%FS	
Force Tolerance	Within $\pm 1\%$	
Deflection Tolerance	Within $\pm 1\%$	
Resolution of inner diameter measuring device	0.01mm	
Deflection measuring range	0 - 100% FS	
Testing speed	0.5 - 200mm/min	
Error of Speed	Within $\pm 1\%$	
Operating method	PC control	
Max. span between two columns	1000mm	
Max. outside diameter	2000mm	3000mm
Max. inner diameter	1800mm	2800mm
Dimension (L x D x H)	650 × 1360 × 3300mm	650 × 1360 × 4300mm
Voltage	220VAC 50Hz 2kVA (110V is also available)	



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