

Model no. 1663/1669

# **RING STIFFNESS TESTER**



According to			
ISO 9967			
ISO 9969			
ISO 13968			
DIN 16961			
ASTM D 2412			

The testing machines model 1663 and 1669 are designed to determine the ring stiffness, ring flexibility and the creep ratio of thermoplastic pipes. Both feature large compression plates which allow performing the test on the respective diameter range and on pipes with lengths of up to one meter. A PC-based operational software enables clear representation of the machine and contributes to the usability. Different operational modes allow to either apply a constant compression to the sample or to continuously move the compression plates towards each other with constant speed. In both cases the applied or resulting forces and distances are recorded and the respective graphs are produced. Additionally the deflection of the outer or inner diameter of the pipe can be measured and recorded by a specific measuring system. The interface to IptDataLogging ® 6 allows you to fulfill the documentation requirements of current test standards.

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#### EASY AND SAFE OPERATION

#### **RELIABLE TEST RESULTS**

- > Automatic processing of test scenario
- > PC-based control software enables easy operation and a clearly represented visualization
- > Especially designed to determine the ring stiffness, ring flexibility and the creep ratio
- Continuous measuring and recording of the pipe deformation on either outer or inner wall
- > Continuous measuring and recording of compressive force

#### STATE-OF-THE-ART TECHNOLOGY

Digital storage and administration of acquired test data via IptDataLogging ®

## LASTING EFFICIENCY

> High-quality unit components guarantee high reliability, a long service life and low maintenance costs





1663



Model no.

1669

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VERSION		V1663-0005	V1669-0003	
Max. test force	kN	25	60	
Max. outside diameter	mm	800	1,600	
Preload		definable up to max. force		
Accuracy	%	± 1 of measurement 0.40 up to 25 kN	± 1 of measurement 0.40 up to 60 kN	
Accuracy of measuring of deformation of the internal diameter		1% of modification or 0.1 mm (max. value is valid)		
Measuring range of distance measurement	mm	min. 70 max. 1,000	min. 70 max. 1,000	
Travel distance	mm	930	1,630	
Extensometer		integrated	mobile	
PC based software		√		
Operation via IptDataLogging ®		+		
Compatible with IptDataLogging ®		from version 5.x		
CE conformity		$\checkmark$		
Permissible ambient temperature	°C	+5 to +30		
Permissible relative humidity	%	max. 70 non-condensing		
Width	mm	2,550	2,500	
Depth	mm	1,155	1,710	
Height	mm	1,950	2,635	
Width (Extensometer)	mm	3,350 (extended)	1,820	
Depth (Extensometer)	mm	-	700	
Height (Extensometer)	mm	-	2,540	
Weight (incl. Extensometer)	kg	ca. 1,750	ca. 3,000	
Voltage data		230/400 V, 50/60 Hz * other voltages		
✓ included + available/optional	O el	igible – not available	* available upon request	

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