



Hegewald & Peschke

Meß- und Prüftechnik GmbH

Application flyer

Testing of plastic or fiber composite pipes



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Apex pressure testing on pipes

Compression testing machines of the inspekt series for the determination of various material and component properties, including:

- Ring stiffness acc. to EN 9969
- Ring flexibility acc. to EN 1446, EN ISO 13968
- Minimum compressive strength acc. to EN 50086
- Crest compressive strength acc. to EN 1228
- Deformation behavior in creep tests acc. to EN ISO 9967

Testing machines with different test room dimensions for various pipe diameters



Testing machine 600 kN for GRP pipes with pipe diameters up to 4200 mm
Item no. 10-003-806



Compression testing machine 100 kN for pipes up to 1800 mm
Item no. 10-103-903

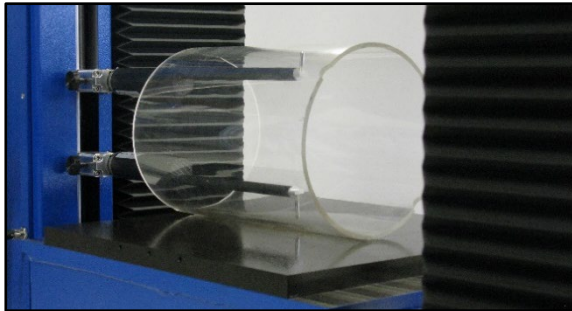


Compression testing machine 50 kN for pipes up to 1500 mm
Item no. 10-003-906

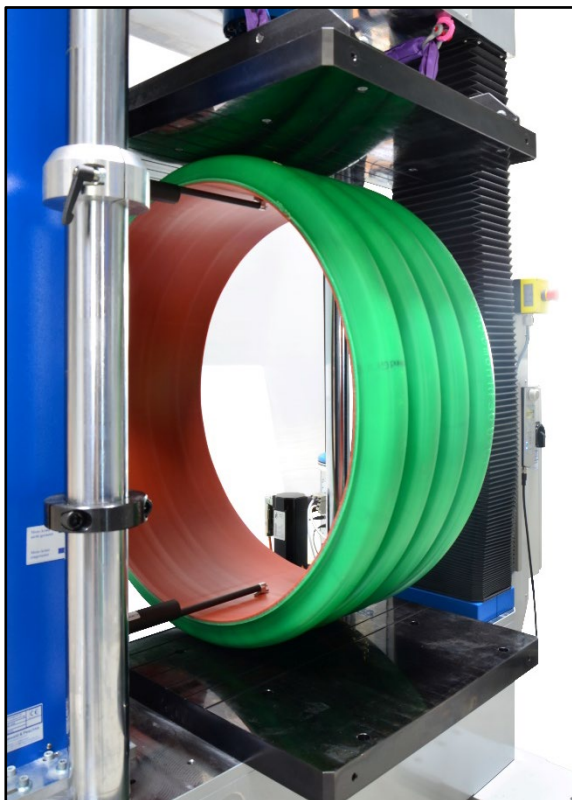


Special extensometers for the exact determination of pipe deformation

- Special extensometer for inside diameter testing with 2 measuring arms
 - Length of measuring arms: 450 mm
 - Accuracy 0.1 mm

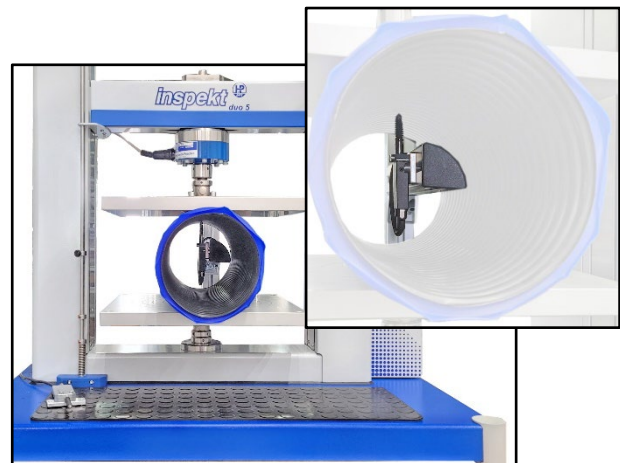


Special extensometer for pipes with an internal diameter of 100 - 1500 mm
(Item no. 15-027-000)



Special extensometer for pipes with an internal diameter of 100 - 1900 mm
(Item no. 15-027-002)

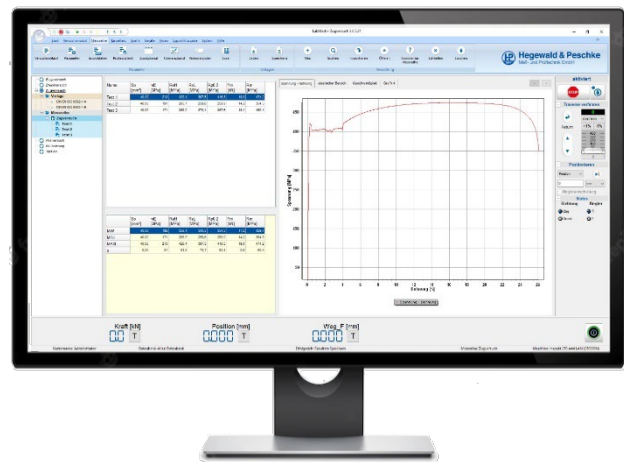
- Sensor for measuring the inner pipe diameter
 - The sensor is placed on the bottom of the upper pipe wall
 - Enables precise measurement of the deformation of the pipe
 - Cost-effective alternative to special long-distance and draw-wire extensometers



Incremental displacement sensor
(Item no. 15-013-905)

Test software LabMaster

- User-friendly setup and processing of the test procedures specified in the respective standards
- Great flexibility when integrating external devices such as the compression measuring device
- Data import and export for customer-specific software such as QDAS or SAP possible

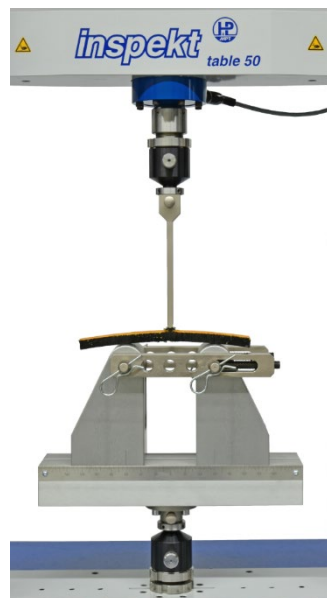


Bending test on pipe segments

Universal testing machines with 3-point bending device

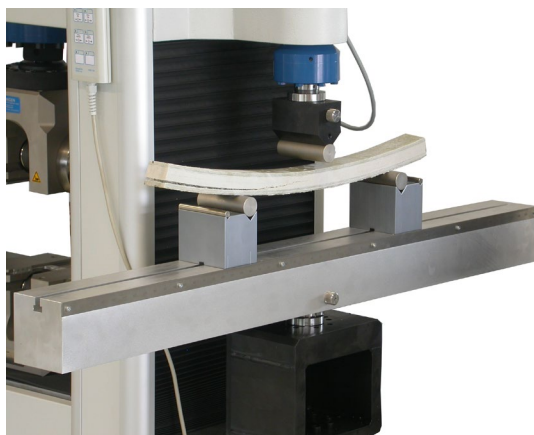
Testing of welded joints

- Test specimens: shoulder specimens taken from the pipe cross-section of water pipes, gas pipes or connecting elements
- Technological bending test according to DVS 2203 (based on DIN 50121)



3-point bending test on welded plastic pipe segment

Testing of pipe segments made of fiber composite materials



3-point bending test on plastic pipe segment

Tensile test on pipes and pipe sections

Universal testing machines with grips for tensile testing

- Determination of initial tensile properties in longitudinal direction acc. to EN 1393
- Determination of apparent initial tensile strength in circumferential direction acc. to EN 1394



Tensile test on plastic specimens

Length measurement on pipes

1D length measuring device

- Determination of the total length and individual measuring points along the pipe
- High accuracy in length measurement: $\pm (0.02 \text{ mm} + 0.01 \text{ mm} \times L)$
- High-quality and robust magnetic incremental measuring system → insensitive to dust, dirt, moisture and oil
- Flexibility due to modular design principle



Length measurement on plastic pipes