

Ductilometer 1500 mm digital

EN 13398 - EN 13589 - EN 13703 - ASTM D113 - AASHTO T 51 - GOST 11505-75 for the determination of load ductility and elastic recovery of bitumen.

Stainless steel housing with an insulated water bath, hinged lid with glass cut-out as well as stepper motor-driven traction device with constant feed speed and digital displacement measuring device. The included software allows user-oriented sequence programming and controls the test sequence with an online output of force and displacement and test evaluation with a calculation of planimetry.

- ▶ Simultaneous testing of up to four samples
- ▶ Electronic version for PC operation with software under Windows 10 and higher
- ▶ To determine the force ductility, one measuring point is equipped with a force transducer 500 N, resolution 0.1 N (special version 100 N, resolution 0.01 N). Three additional force transducers can be retrofitted
- ▶ Storage of the tests in a database in dBase format

(A PC with screen and keyboard is required for operation. Without moulds, without bath temperature control unit and without PC).

Technical data

Dimensions	2300x500x380 mm
Weight	95 kg
Electrical data	230 V, 50/60 Hz, 0,5 kW
Feed rate	1 bis 50 mm/min.

20-2356

Advantages:

- ▶ Display of the test graph and current test data in real time
- ▶ Automatic test execution with windows based software
- ▶ Quick calibration option
- ▶ Up to 4 measuring stations that can be equipped
- ▶ Test protocol

Ductilometer 1000 mm digital

20-2346

Ductilometer 400 mm digital

20-2336

Advantages:

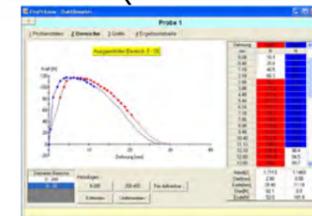
- ▶ Self-explanatory display
- ▶ Userfriendly operation
- ▶ Short-term memory for current measurements
- ▶ Up to 4 test results measurable

Ductilometer 1000 mm

20-2341

Ductilometer 400 mm

20-2331



20-2351

Ductilometer 1500 mm

EN 13398 - ASTM D113 - AASHTO T 51 for the determination of ductility of bitumen.

Stainless steel housing with an insulated water bath and stepper motor-driven pulling device with constant feed speed and digital displacement measuring device. Thermometers are installed in the water bath to check the bath temperature.

- ▶ Simultaneous testing of up to four samples
- ▶ Complete with an integrated operating unit on the left side of the unit
- ▶ With additional test option elastic reset

(Without moulds, without bath temperature control unit and without hinged lid for the bath)

Technical data

Dimensions	2400x500x380 mm
Weight	100 kg
Electrical data	90-260 V, 50/60 Hz, 0,5 kW
Feed rate	1 bis 50 mm/min.

20-2351



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Load Cell

resolution 0.1 N (optional 100 x 0.01 N) additionally installed in 20-2336/46/56.

20-2357 500 N

20-2358 100 N



Ductilometer Water Bath Heating Thermostat

ready installed in the water bath of 20-2331... with circulation pump for tests above ambient temperature up to +95°C of together with 20-2377 from +5 up to +95°C. Digital version with over temperature limiter. 230 V, 50/60 Hz.

20-2370

Temperature Sensor

for ductilometer bath of 20-2336/46/56. Two sensors, one of which is installed inside the water bath and one more fixed to the movable crosshead.

20-2359

Brass Ductility Mould

(complete with stainless steel base plate).

20-2361 EN 13398

20-2362 EN 13589 (10 x 10 mm)



Brass Ductility Mould

ASTM D113 + AASHTO T 51

20-2360

Brass Ductility Mould

ASTM D 6084-04

20-2364

Cooling unit to Ductilometer 400 / 1000 / 1500 mm

for 20-2331 to 20-2356 suitable for tests from +5° up to +95°C together with 20-2370.

Technical Data

Dimension	230 x 580 x 380 mm
Weight	18.0 kg
Electrical data	230V, 50Hz

Complete with all connecting parts. 20-2370 additionally required!

20-2377