

ACCESSORIES



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

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



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

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

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

Electrical data	230V 50Hz
Dimension approx.	2300 x 580 x 380 mm
Weight approx.	18.0 kg

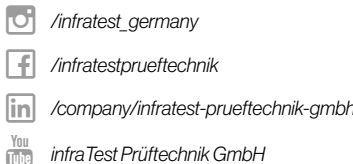
Complete with all connecting parts. 20-2370 additionally required!

20-2377

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BITUMEN DUCTILOMETER

ALWAYS
2 STEPS
AHEAD!



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 casing with isolated water bath with cover and glass window as well as a stepper motor providing a variable speed range 1 to 50 mm/min. by the digital displacement measuring system. Up to 4 samples can be tested simultaneously. Fully computer-controlled version with Windows software. One measuring place is equipped with an electronic load transducer 500 N, resolution 0,1 N (100 N, resolution 0,01 N as an option). Three additional load transducers 20-2357 can be connected. The complete test is controlled by the software with on-line graphics and database as well as evaluation of test with the calculation of planimetry. Special test sequences can be programmed by the user. The water bath temperature can be recorded continuously by use of temperature sensors 20-2359, available on option.
For operation, a computer with Windows has to be provided. The bath temperature can be controlled by a ductilometer Bath Heating Thermostat (20-2370), if required with additional cooling unit (20- 2377) or an external cooling/heating unit. (Test moulds, bath heating attachment and computer are not included).

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

Advantage:

- 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

230 V, 50/60 Hz

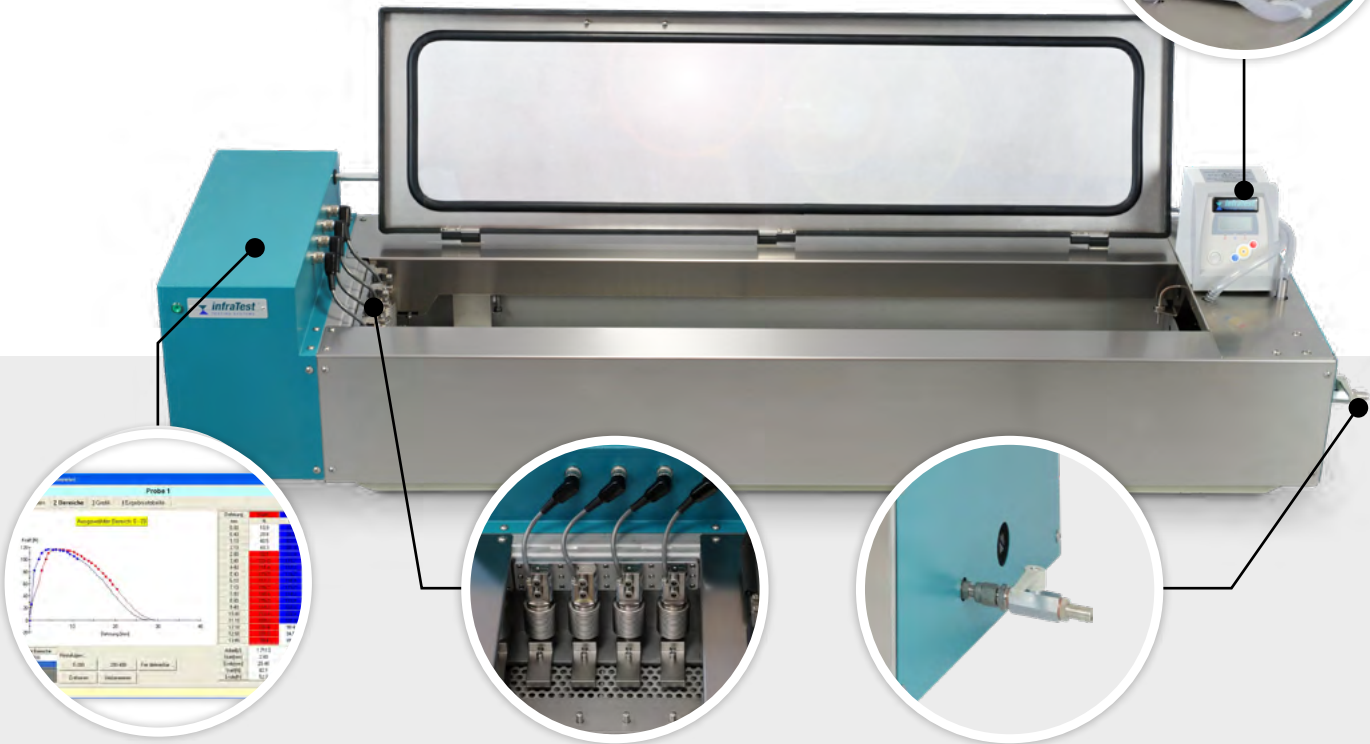
20-2346

Ductilometer 400 mm digital

230 V, 50/60 Hz

20-2336

Water Bath Heating Thermostat



Evaluation Software

Load Cell 500 N

Drain Valve

Ductilometer 1500 mm

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

Stainless steel casing with isolated water bath and stepper motor providing a variable speed range 1 to 50 mm/min. with digital displacement measuring system. Up to 4 samples can be tested simultaneously. The operation panel at the left side of the apparatus with digital display memorizes up to 4 displacement values. Glass thermometers are installed to control the temperature in the water bath. The bath temperature can be controlled by a ductilometer Bath Heating Thermostat (20-2370), if required with additional cooling unit (20- 2377) or an external cooling/heating unit. (Test moulds, bath heating attachment and cover for the bath are not included).

Technical data

Dimensions	2400x500x380 mm
Weight	100 kg
Electrical data	230 V, 50/60 Hz, 0,5 kW
Feed rate	1 bis 50 mm/min.

20-2351

Advantage:

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

Ductilometer 1000 mm

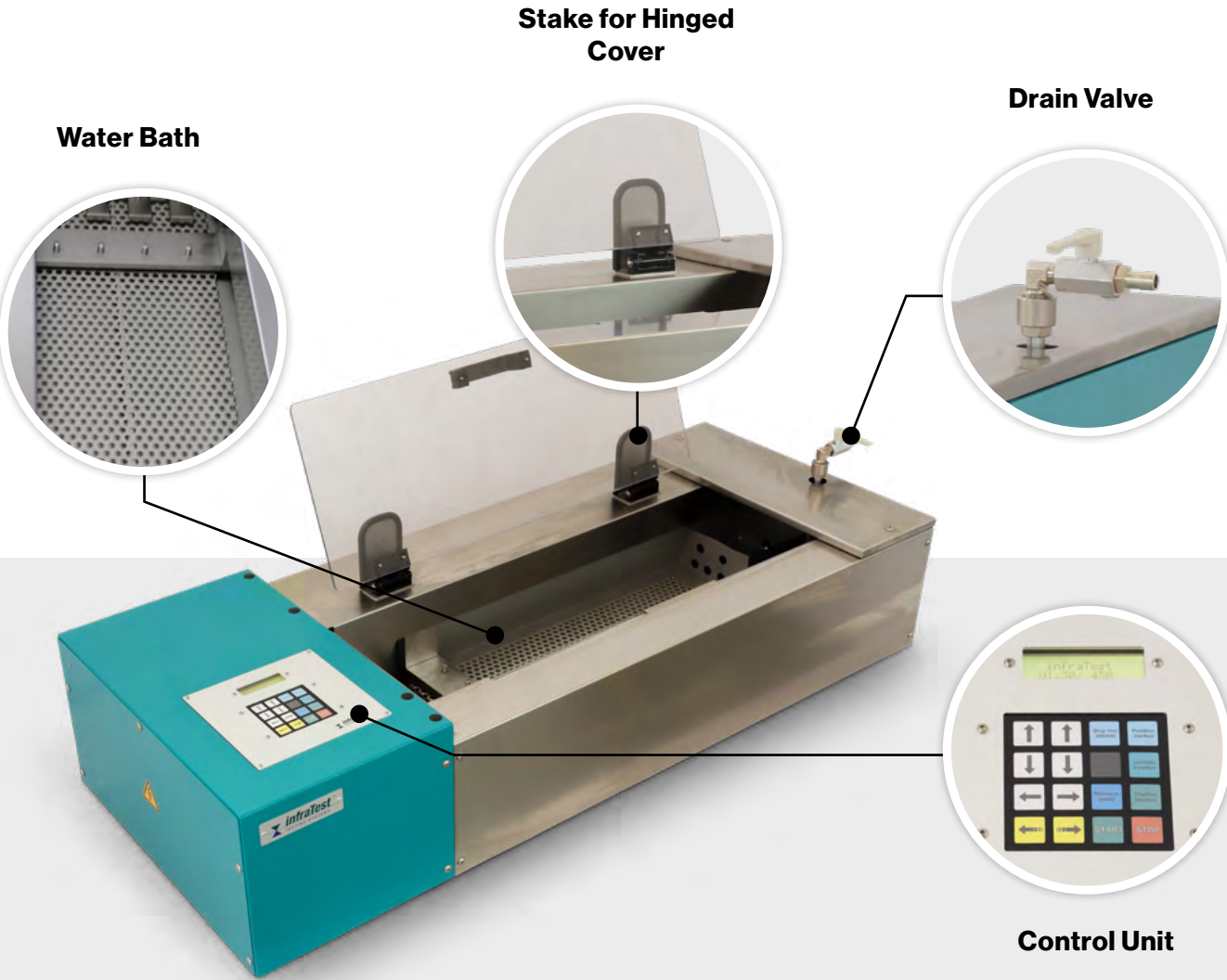
230 V, 50/60 Hz

20-2341

Ductilometer 400 mm

230 V, 50/60 Hz

20-2331



Water Bath

Stake for Hinged Cover

Drain Valve

Control Unit