

Penetrometer

Device for determining needle penetration.



acc. to EN 1426 - ASTM D 5 - AASHTO T 49 - GOST 11501- GOST 33136-2014-78 - NFT66-004 DIN 52010, , BS 2000,



20-2050

Manual drop bar arrest & time must be stopped itself.

Stable frame with base plate, bubble level and adjustable feet as well as height-adjustable penetrometer arm with manual drop bar locking device. Complete with dial gauge 30 x 0.01 mm for reading the penetration depth and drop bar 97.5 g (drop bar 47.5 g available as additional option 20-2080E30). Without penetration needles and other accessories.

The plunger is released by pressing the release button and fixed again by releasing the release button.
Height adjustment: By rotating the handwheel, the height on the penetration arm can be set.
Dial gauge holder: To measure the penetration, a dial gauge holder is mounted on the tester.

Weight: 13,8 kg

Dimensions: 250x360x640 mm
Electrical data 230V, 50/60Hz, 0.1kW



20-2060

with control Unit

Needle manually with crank on surface put on. The timer sets the trigger time automatically.

Stable frame with base plate, bubble level and adjustable feet as well as a height-adjustable penetrometer arm with a time-controlled automatic fall arrest device using a multi-function time relay, adjustable from 0.1 seconds to 99.99 hours. To place the needle on the sample, a halogen lamp and measuring magnifier are attached to movable arms. Complete with dial gauge 30 x 0.01 mm for reading the penetration depth and drop bar 97.5 g (drop bar 47.5 g available as additional option 20-2080E30). Without penetration needles and other accessories.

Weight: 16 kg

Dimensions: 280x110x260 mm
Electrical data: 230V, 50/60Hz, 0.1kW

ACCESSORIES
PENETROMETER



20-20711 Penetration needle 2.5g / 3.2 mm magnet
EN 1426 - ASTM D5 – AASHTO - T 49-07
Weight 0.025 kg

With magnetic head and sequential identification number engraved on the barrel and shockproof packaging



20-20810 Penetration bullet EN 13880-3
Weight 0.0275 kg

With shaft O 3.2 mm, weight 27.5 +/- 0.1 g for use with drop rod 47.5 g.



20-20811 Penetration cone EN 13880-2, ASTM D 217, ASTM D 937
Weight 0.102 kg

With VA tip and shank O3.2 mm, for use with drop rod.



20-20670E35. Drop rod 47.5 g for the penetrometer 20-20665 and 20-20670 to hold the penetration ball and cone.
20-20670 in manual mode only.

Test vessel penetration made of stainless steel for penetration attempts.

∅ mm

20-2084 Height 35 mm. ID 55 / AD 60

20-2086 Height 45 mm ID 55 / AD 60

20-2087 Height 65 mm ID 55 / AD 60

20-2088 Height 45 mm ID 70 / AD 78

20-2089 Height 60 mm ID 70 / AD 78

ID = inner ∅ / OD = outer ∅



Reducing ring O 53/36 mm to reduce the amount of sample in penetration vessels.

20-2092 20mm 0.0667kg

20-2093 30mm 0.0975kg



Water bath

20-207200 ∅ 95 x 60 mm
nozzles, nickel-plated brass.



Weight 0.10 kg

20-2074 ∅ 160 mm
without spouts



Weight 1 kg

20-2076 ∅ 160 mm Without water connection



Weight 1 kg

20-2078 Perforated base plate DIN 52010
For placing in the penetration water bath and for setting up the test vessel.



Weight 0.10 kg

20-2090 Penetrometer pretempering bath
Stainless steel design with cover and built-in thermostatic heating system
25 .. 100 x 0.1° C for sample temperature control. Complete with circulation pump and hose connection fittings to connect 20-2076.

Technical data

dimension 210x330x390mm / Weight 8.40 kg

electrical data 230 V, 50/60 Hz, 2 kW

20-2090E1 Additional price to 20-2090
Weight 0.80 kg

