

**Product Name :**  
Standard Penetrometer Fully Automatic

**Product Code :**  
CHINAELABC5440004



**Description :**

Standard Penetrometer Fully Automatic

**Technical Specification :**

Fully Automatic operational Design

Compact design and rugged construction ensures long service life and facilitates easy transport for field applications.

Touch screen display

Opto-electronically depth detection & measurement through imported Opto-electronic sensor

Automatically timed programmable penetration measurements Preset penetration time at factory (Operator can also enter the user defined penetration interval through touch screen)

Motorized placement of penetrator on sample surface

Penetrometer arm automatically comes back to its home position at the end of 5 seconds penetration test

In built Facility to tare and reset the measurement results

Display resolution of penetration depth in tenths of units (0.01mm)

Magnifying lens for adjusting needle tip/cone tip exactly on the sample surface

Low voltage Illuminator mounted on flexible arms to assist an operator during testing

Built-in spirit level and leveling screws to ensure proper alignment

Micrometer differential gearing mechanism for fine movement of head

Weight of the Needle/Cone and plunger match the criteria of ASTM and IP requirements.

The base of the instrument is also user adjustable It can be lifted up or down with the jack provided at the bottom.

The penetration time is controlled and indicated on Digital LCD display with least count of 0.1 second.

The Opto-electronic sensor installed within the instrument detects the penetration depth in 10th of millimeter (0.01mm)

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The penetration value is measured and indicated on digital LCD display  
Supplied complete with Needle/cone, container and applicable weight

Supplied complete with following Accessories in case of Bitumen penetration:

Weight of 50 Grams 1 No.

Penetration cup of 55mm diameter x 35mm height 1 No.

Transfer dish 1 No.

Penetrometer Needle 1 No.

Needle Holder 47.5g  $\pm$  0.05g 1 No.

Thermometer ASTM 17C (+19 to 27 °C) 1 No.

Supplied complete with following Accessories in case of Grease penetration:

Sample container of 76.5mm dia x 63.5mm height 1 No

Transfer dish 1 No

Penetrometer Hollow 90° brass cone, Highly polished stainless steel tip 2 Nos

Technical specification

Measuring Range: 0-40 mm

Timer Range: 0-99,999 Seconds

Overall Dimensions: 330 X 390 X 790(L X W X D) mm

Operation on: 230 Volts, 50 Hz, Single Phase, AC Supply



**Engineering Lab China**