



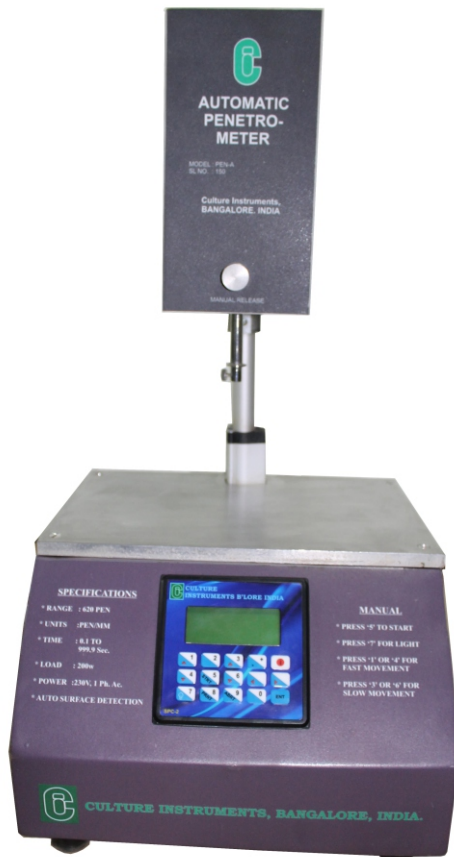
AUTOMATIC PENETROMETER

COMPLIANCE

ASTM D5, D217, D937, D1321, D1403, D2884, D4950; IP 49, IP50, IP179, IP310; ISO 2137; DIN 51 579, DIN 51 580, DIN 51 804; FTM 791-311, FTM 791-312, FTM 791-313; AOCS Cc 16-60; AACC 58-14; NF T60-119, NF T60-123, NF T60-132, NF T66-004, BS: 1377

APPLICATION

Used for penetration tests on petroleum products and for consistency tests on a wide range of food products, cosmetics, pastes, destempers and other solid to semi-solid products. Consists of a scale 0-62.0mm with 1/10mm or 1/100mm sub divisions. (0-620 penetration scale). Suits cones and needles to perform all the ASTM tests on lubricating greases, asphalts, petroleum waxes. Compact design facilitates transport for field use. Geared dial and plunger movement for accurate placement of the tip of the needle or cone on the surface of the sample.



Body made of Powder Coated CR sheet with machined SS top, with inbuilt spirit level. Dual speed automatic or manual movement with auto contact detector and automatic release and retention of plunger.

- Automatically timed operator programmable penetration measurements
- Automatic placement of penetrator on sample surface
- Large LCD/TOUCH screen display
- Full measurement range of 0-620PEN in 1/10mm scale or 1/100mm scale
- Rechargeable battery or AC operation
- Can be used with any standard cones, needles and other accessories

Size:

Weight:



- Advanced user friendly features to provide ease of operation and highly reproducible consistency measurements.
- Default standard as per ASTM is 5.0sec. interval
User programmable penetration timing 1 to 9999 Sec.
- Auto release of penetrator after temperature stabilization can be programmed(**Optional**).
- In-built memory to store 5 test procedures.
- Can be programmed for pass or fail result display.
- Can be connected to a printer for test result printing.
- For non-conductive samples the penetrator can be placed on the sample surface by using coarse and fine push button switches.
- Built in LED Lamp for greater visibility
- The penetrator assembly automatically returns to its home position after test.

STANDARD ACCESSORIES

11045-03	50gm Weight
11045-04.	100gm Weight
11045-05	Standard Plunger

MODELS

- 11045-00 Standard Penetrometer
- 11045-01 Standard Penetrometer with Digital timer.
- 11045-02 Fully Automatic Penetrometer

STANDARD PENETROMETER WITH DIGITAL TIMER

Semi automatic version, with electromagnetic head providing automatic release and retention of plunger head. It is controlled by a microprocessor controlled timer. Sturdy and robust cast iron base, with levelling legs at the bottom to adjust, with a built-in spirit level to insure proper alignment. Supplied with one 50gram and one 100 gram weights with standard 47.5g plunger assembly.



Size:

Weight:



STANDARD PENETROMETER



Completely manual version, the head is raised or lowered manually and secured using a knob. Sturdy cast iron base, with levelling legs at the bottom to adjust. Supplied with one 50gms and 100 gms each weights with standard 47.5g plunger assembly.

SIZE:

WEIGHT:

GREASE WORKER - MECHANICAL

For Worked Penetration and Prolonged worked penetration tests to determine consistency of lubricating grease. Consists of a single heavy gun metal grease pot with screw lid as per ASTM, mounted on a sturdy base and driven by a motor and a steel plunger plate with handle connected to the cam. Operates on 230V Ac, 50Hz, single phase. A digital preset counter ensures the required number of stokes from 1-9999.

Size:

Weight:

GREASE WORKER - MANUAL



The Manual Grease Worker comprises a heavy Gun Metal grease pot with screw lid and is designed for working light to medium greases before carrying out tests.

Both the instruments Consists of air valve and thermometer pass, handle & Base made of mild steel.

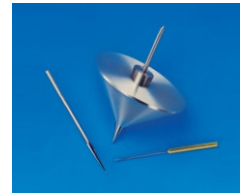
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ACCESSORIES / SPARES

- 11045-05 Brass Cone
- 11045-06 Needle
- 11045-07 Solid Aluminium Cone
- 11045-08 One Half Scale Cone
- 11045-09 One quarter Scale Cone
- 11045-10 Grease Container 10cm dia x 10cm Ht.
- 11045-11 Bitumen container 55mm dia x 57mm Ht.
- 11045-12 Bitumen container 55mm dia x 35mm Ht.
- 11045-13 Grease worker Manual
- 11045-14 Grease worker motorized
- 11045-15 Timer for 11045-01
- 12028-00 Water/Oil Circulation bath from +5 to 150C
- 11045-16 Grease Cutter
- 11053-17 Rechargeable battery power pack
- 11045-18 Spare LED Light
- 11045-19 PLC Controller.



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