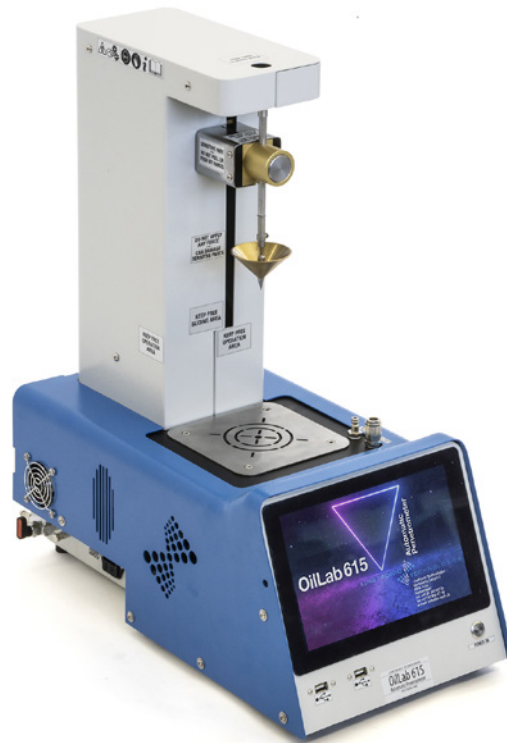




OilLab 615 Automatic Penetrometer



ASTM D5
ASTM D217
ASTM D937
ASTM D1321
ASTM D1403
ASTM D1831
ASTM D2884
DIN 51579
DIN 51580
DIN 51804
DIN 52010
IP 49
IP 50
IP 179
IP 310
IP 376
ISO 2137

ASTM D5, IP 49, DIN 52010
Penetration of bituminous material.
For determination of the penetration
of semi-solid and solid bituminous materials.

ASTM D217, ASTM D1403, IP 50, IP 310, DIN
51804, ISO 2137
Cone penetration of lubricating grease.
Cover four procedures for measuring
the consistency of lubricating greases
by the penetration of a cone of specified
dimensions, mass and finish.

ASTM D937, IP 179, DIN 51580, ISO 2137
Cone penetration of petrolatum.
Covers measuring with a penetrometer
the penetration of petrolatum as an empirical
measure of consistency.

ASTM D1321, IP 376, DIN 51579
Needle penetration of petroleum waxes.
Covers the empirical estimation of the
consistency of waxes derived from petroleum
by measurement of the extent
of penetration of a standard needle.
This test method is applicable to waxes having
a penetration of not greater than 250.

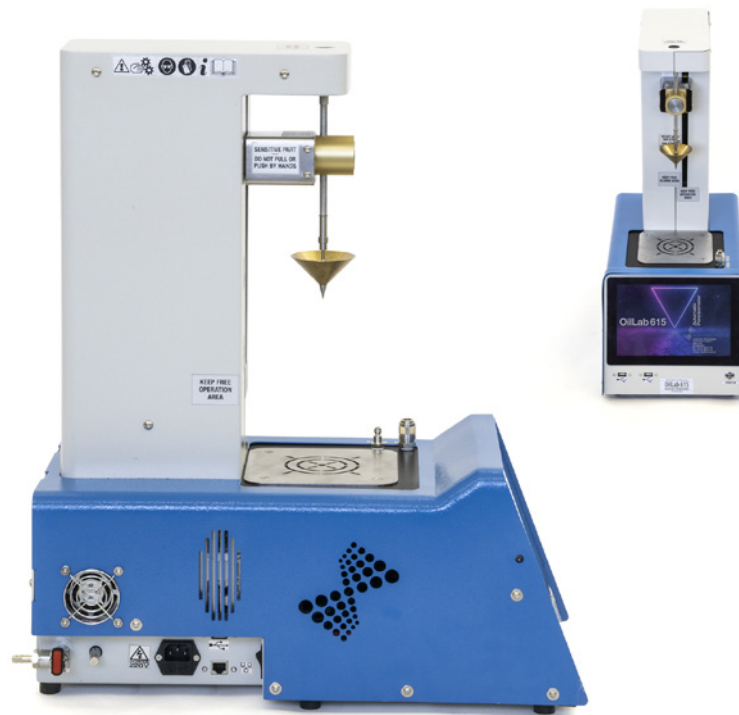
ASTM D1831
Roll stability of lubricating grease.
Covers determination of the changes in the
consistency, as measurably cone penetration,
of lubricating greases when worked in the roll
stability test apparatus.

ASTM D2884 - Yield stress of heterogeneous
propellants by cone penetration method.
Covers determination of the yield stress
of heterogeneous propellants,
both of the gel and emulsion types, containing
from 0 to 70% solid additives.

- Bench top instrument compact and solid structure painted with anti-epoxy products, include the refrigerator system able to cool down 10°C sub-ambient temperature and dedicated electronic boards.
- Analytical head made in aluminium and corrosion resistant plastics, advanced automatic up-down movement and sample surface positioning system, penetration range up to 75 mm.
- Regulable led light and mirror.
- Water bath for conditioning sample with quick-joints.
- Safety systems: low level liquid alarm and protection, head malfunctioning movement, protection against needle/cone not installed, stand-by module for energy saving.
- Linetronic Management software running on 10.1" high-brightness 800cd/m² TFT with resolution 1280 × 700:
 - pre-setting for method ASTM, DIN, IP; and ISO, or customizable analysis parameters
 - advanced surface detection with adjustable sensitivity;
 - settable bath temperature and controlled by PT100 A Class with 0,1°C precision, automatic for method selected or custom temperature;
 - calibration menu, result browser, dual level password protection;
 - more than 60'000 analysis storage capacity
 - 2 × USB for connecting: mouse, keyboard and software updates;
 - 1 × RJ45 Ethernet / Lims connection
 - integrated beeper for end-test notification / errors;
 - real time graph for comparing penetrations values, export file in .xls format.
- Plunger 47.5 gr, ASTM D217 optional cone.
- With spirit level and adjustable feet.



OilLab 615 Automatic Penetrometer

**Dimensions**

- Width 28 cm
- Depth 54 cm
- Height 73 cm

Weight

- 22 Kg

Accessories

- LAB-100-661/50: plunger weight 50 g
- LAB-100-661/100: plunger weight 100 g

Spare Parts

- LAB-100-661/47: plunger weight 47.5 g

Accessories for ASTM D5 , IP 49, EN 1426

- LAB-100-662: penetration needle ASTM D5, IP 49, 2.5 g, pack of 5 pcs.
- LAB-100-1426/20: reduction ring for reduce sample volume, 53 mm external diameter, 36 mm internal diameter, 20 mm height, for EN 1426
- LAB-100-1426/30: reduction ring for reduce sample volume, 53 mm external diameter, 36 mm internal diameter, 30 mm height, for EN 1426
- LAB-100-666/B: sample container 55 × 35 mm, made in brass, pack of 5 pcs.
- LAB-100-666/C: sample container 55 × 45 mm, made in brass, pack of 5 pcs.
- LAB-100-666/E: sample container 70 × 45 mm, for bitumen, penetrations between 200 and 350, made in brass, pack of 5 pcs.
- LAB-100-666/G: sample container 70 × 60 mm, for bitumen, penetrations between 350 and 500, made in brass, pack of 5 pcs.

Accessories ASTM D217

- LAB-100-664: optional penetration cone ASTM D217, diam. 65 mm body of brass, stainless steel tip
- LAB-100-664/SS: optional penetration cone ASTM D217, 65 mm, diameter body and tip of stainless steel, for European Pharmacopoeia
- LAB-100-665: optional penetration cone ASTM D217, 69 mm diameter, body and tip of stainless steel
- LAB-100-666/I: sample container 76.5 × 63.5 mm, made in brass, pack of 3 pcs.
- LAB-100-666/I-ring: external ring for grease restraint/recovery, 203 mm diameter

Accessories for ASTM D937

- LAB-100-664: optional penetration cone ASTM D217, 5 mm diameter body of brass, stainless steel tip
- LAB-100-666/H: sample container 100 × 65 mm, made in steel with cover, pack of 3 pcs.

Accessories for ASTM D1321

- LAB-100-663: needle ASTM D1321, 2.5 g, stainless steel
- LAB-100-666/F: sample container wax test cylinder 25 × 32 mm, pack of 2 pcs.
- LAB-100-666/BC: base plate in brass 63.5 × 38 mm, pack of 2 pcs.

Accessories for ASTM D1403 – D1831

- LAB-100-711: penetration cone ½ ASTM D1403, IP 310, 22.5 g, body and tip in stainless steel
- LAB-100-712: slider ½ - 15g
- LAB-100-713: sample container ½ 38 × 32 mm pack of 3
- LAB-100-714: half-scale grease worker ASTM D1403, brass, with 8 holes 6.35 mm diameter
- LAB-100-715: penetration cone ¼ ASTM D1403, IP 310, 1.20 g, body Plexiglas®, stainless steel tip
- LAB-100-716: Plexiglas® slider ¼ 8.18 gr
- LAB-100-717: sample container ¼ 19 × 11.5 mm pack of 3 pcs.
- LAB-100-718: quarter-scale grease worker ASTM D1403, brass, 8 holes 3.17 mm diameter

Accessories for ASTM D2884

- LAB-100-719: propellant cone 15 gr, 65 mm diameter, body in magnesium, stainless steel tip
- LAB-100-661/47: plunger 47.5 gr
- LAB-100-666/I: sample container 76.5 × 63.5 mm, made in brass, pack of 3 pcs.

Optional Accessories

- LAB-100-660/A: transfer dish