

DATA SHEET

Los Angeles Abrasion Machine



Los Angeles abrasion machine model 48-D0500/G

General description

The test covers the procedure for testing coarse aggregates for resistance to abrasion. The machine consists of a rolled steel drum having an inside dia. of 711 mm and internal length 508 mm. The drum is rotated by a speed reducer driven by an electric motor at a speed of between 31 and 33 r.p.m. The machine is equipped with an automatic counter, which can be preset to the required number of revolutions of the drum or the total working time. The unit is supplied without the abrasive charge, which has to be ordered separately depending on the standard in use (see accessories).

The machine is supplied without the safety cabinet and it can be upgraded with:

- CE compliant safety cabinet with door opening switch
- Noise reduction and CE compliant safety cabinet with door opening switch

For more info please refer to accessories and to related product below.

Main features

- **High stiffness welded steel frame**
- **High resolution graphical display 128x80 pixels and 6 keys membrane keyboard**
- **8 languages can be set: Italian, English, French, Spanish, Polish, Portuguese, Romanian and Cesky**
- **Double test procedure: it is possible to set the target revolutions / drops or the total working time**
- **The machine can be mounted inside a noise reduction and CE compliant safety cabinet with door opening switch**

Standards

- EN 12697-17
- EN 12697-43
- EN 1097-2
- ASTM C131

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Specifications

Standard models 48-D0500/G, /GY, /GZ

Power: 740 W

Dimensions approx.: 1005x820x950 mm

Weight approx.: 350 kg

Safety cabinets

48-D0500/CB1

Dimensions (wxdxh): 1122x975x1292 mm

Total weight approx.: 85 kg

48-D0500/CB2

Dimensions (wxdxh): 1122x975x1292 mm

Total weight approx.: 95 kg

*The **EN 12697-17** method (Cantabro test) concerns the determination of the particle loss (abrasion) of porous asphalt mixtures and the **EN 12697-43** concerns the determination of the resistance of a bituminous mixtures or pavement to aviation fuel. Both procedures involve, within other standard laboratory tests, the abrasion in a Los Angeles tester conforming to EN 1097-2 without steel balls. Furthermore the EN 12697-17 prescribes a chamber or enclosure for the Los Angeles machine as the temperature shall remain constant with an uncertainty of 2°C.

This condition can be easily obtained by the soundproof and security cabinet **48-D0500/CB2** which is however necessary to comply with CE directive.



Los Angeles abrasion machine model 48-D0500/G - detail of the graphic display and membrane keyboard.

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Los Angeles abrasion machine model 48-D0500/G with noise reduction and CE compliant safety cabinet model 48-D0500/CB2



Los Angeles abrasion machine model 48-D0500/G - example of the graphic display screen

Products

48-D0500/G

Los Angeles abrasion machine conforming to EN and ASTM standards. 230V, 50Hz, 1ph.

48-D0500/GY

Los Angeles abrasion machine conforming to EN and ASTM standards. 220V, 60Hz, 1ph.

48-D0500/GZ

Los Angeles abrasion machine conforming to EN and ASTM standards. 110V, 60Hz, 1ph.

Accessories and consumables

48-D0505

Set of 12 abrasive charges ASTM/UNI

48-D0505/A

Set of 12 abrasive charges conforming to EN 1097-2

48-D0500/CB1

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CE compliant safety cabinet with door opening switch for Los Angeles machine

48-D0500/CB2

Noise reduction and CE compliant safety cabinet with door opening switch for Los Angeles machine