



Key Features

- Easy to determine the density in top layers
- Good measurements at 15x cone diameter
- Drag pointer for easy read-out
- Durable construction
- Factory calibrated exchangeable springs
- Possibility of horizontal measurements

Set contains

- Measuring device
- Extension rods
- Sounding rods
- Various cones
- Compression springs
- Tools
- Plastic case

The Royal Eijkelkamp hand penetrometer is used to determine the penetration resistance of top layers. For instance, if you wish to determine the density in a top layer of a sports field in order to decide whether it is playable. Because of the limited overall length of the device, the hand penetrometer can also be used for horizontal measurement, for instance in the walls of profile pits.

The principle of the hand penetrometer is based on measuring the highest penetration resistance of a cone over a distance of about 10 centimetres. The penetration resistance is measured by means of a compression spring.

The instrument is supplied with several cones and compression springs. The combination of a cone and a compression spring is selected based on the expected penetration resistance. If the expected penetration resistance is high, a cone with a small surface is selected and a compression spring with a large maximum force and vice versa.

Applications

- Soil profile description and classification
- Determining the density in top layers, i.e. whether a sports field is playable
- Horizontal measurements



Specification	
Angle of cone	30 °
Cone surface range	0,25, 0,5 cm ²
Connection	Screw thread
Maximum force	1500 @ 0,25 cm ² kPa
Maximum measuring depth	60 cm
Measured parameters	Penetration resistance
Measuring accuracy	< +/- 8%
Measuring range	0...6000 kPa
Product material	Stainless steel, iron, other material
Reading accuracy	1%
Registration type	Manual
Package size	41 x 30 x 9 cm
Weight	2,68 kg

