

## CONE PENETROMETER

STANDARDS: BS 1377:2, CEN ISO/TS 17892-6, 17892-12

Semi-Automatic Digital Penetrometer apparatus is used to determine the moisture content at which clay soils pass from a plastic to a liquid state and it is used also for the determination of undrained shear strength.

The penetrometer has a cast iron base with leveling screws, digital penetration measurement gauge 0.01 mm precision, release button and automatic zeroing.

It is provided with lead screw gear arrangement, Leveling screws, and Spirit level. The head can be clamped at any desired height. A rack and pinion and pointer assemble provides fine adjustment of the cone tip to sample. It incorporates a clutch mechanism which makes reading of penetration and subsequent resetting a simple and accurate operation.

Semi-Automatic Digital Penetrometer for Liquid Limit is complete with automatic controller, which automatically releases the plunger by a magnetic device, complete with micrometer vertical adjustment and adjustable electronic timer of the fall time. The penetrometer is equipped with a digital timer, which can be set to the standard 5 second free-fall time or to some other setting for customized tests. When engaged the timer will allow the needle to free fall into the sample for the specific time interval and then lock the needle from advancing while providing a direct reading of the test results.

320 g weight should be added to the 30° angle cone to get a total weight of 400 g for the shear strength test.

The electronic timer allows the user to set up and read the fall time of the needle during testing.

Semi-Automatic Penetrometer for Liquid Limit supplied complete with

- Automatic Penetration Timer Unit,
- 30° Penetration Cone
- Sample Cups, 3 pcs. Aluminum, Ø55 mm x 35 mm.

Mirror is available for easy cone height adjustment and should be ordered separately.



**HR-S6500**

### Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)	Power Supply
HR-S6500	Semi-Automatic Digital Penetrometer	20x30x50	10	220 V, 50-60 Hz, 1 ph

### Spare Parts & Accessories:

Product Code	Product Name	Dimensions (cm)	Weight (g)
HR-S6500/1	Liquid Limit Penetration Test Cone 30°	---	80
HR-S6500/10	Liquid Limit Penetration Test Cone 30°	---	100
HR-S6500/11	Liquid Limit Penetration Test Cone 30°	---	400
HR-S6500/2	Cone Test Gauge for 30° Test Cone	---	---
HR-S6500/3	Liquid Limit Penetration Test Cone 60°	---	10
HR-S6500/30	Liquid Limit Penetration Test Cone 60°	---	60
HR-S6500/5	Shaft for 60° Test Cone	---	---
HR-S6500/4	Cone Test Gauge for 60° Test Cone	---	---
HR-G0610	Moisture content tin	Ø 5,5 x 3,5	20
HR-G0608	Moisture content tin	Ø 7 x 4,5	30
HR-S6500/6	Mirror	---	---