

LABORATORY VANE APPARATUS

STANDARDS: BS 1377:7, ASTM D4648

Laboratory Vane Apparatus is based on a original concept of the Transport and Road Research Laboratory of the United Kingdom.

Laboratory Vane Apparatus is Lightweight, compact and portable, ideal for site or main laboratory, Convenient and rapid method of determining shear strength of soft soils, Easy to use: many hundreds in operation today.

It can be provided with a wide range of vane sizes, although as standard, it is sold with the 12.7 mm square vane and a set of three calibrated springs. The test can be performed directly on the sample or in the sample contained in the sampling tube. In this case Attachment for Ø38 and Ø100 mm sampling tubes, should be used.

A motorizing unit is also available. Two alternatives are available according to standards.

BS Model is including driving belt, pulley set and fixing studs. Testing speed is 6 to 12°/min.

ASTM Model is including driving belt, pulley set and fixing studs. Testing speed is 60 to 90°/min.

Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)
HR-S4015	Laboratory Vane Apparatus	20x40x65	11



HR-S4015



HR-S4015/4

Spare Parts & Accessories:

Product Code	Product Name	Power Supply	Testing Speed
HR-S4015/1	Vane, 25.4x25.4 mm	---	---
HR-S4015/2	Vane, 12.7x25.4 mm	---	---
HR-S4015/3	Vane, 12.7x19 mm	---	---
HR-S4015/4	Attachment to hold sample tubes of Ø38 and Ø100 mm	---	---
HR-S4015/5	Spare Vane, 12.7x12.7 mm	---	---
HR-S4015/6	Spare set of three calibrating springs	---	---
HR-S4020	Motorizing attachment, BS 1377:7	220 V, 50 Hz, 1 ph	6 to 12°/min.
HR-S4025	Motorizing attachment, BS 1377:7	220 V, 60 Hz, 1 ph	6 to 12°/min.
HR-S4030	Motorizing attachment, ASTM D4648	220 V, 50 Hz, 1 ph	60 to 90°/min.
HR-S4035	Motorizing attachment, ASTM D4648	220 V, 60 Hz, 1 ph	60 to 90°/min.

SOIL POCKET PENETROMETER

The Pocket Penetrometer was originally developed for use by field personnel in checking visual classification of soils. Data was compiled on several thousand unconfined compressive strength tests of silty clays and clayey soils against the penetrometer readings to develop the scale.

Technical Specifications:

Product Code	HR-S6225
Product Name	Soil Pocket Penetrometer
Range (kg/cm ²)	0,25 to 4,5
Scale divisions (kg/cm ²)	0,25
Load piston (mm)	Ø 6
Dimensions (cm)	2x17
Weight (kg)	0,2

- Direct-reading scale in tons/sq. ft. and kg/sq. cm.
- Ground and polished stainless steel loading piston.
- Calibrated spring and penetrometer body plated for rust resistance and long life.
- Convenient belt-loop style carrying case.
- Optional Adapter Foot for testing very soft materials.



HR-S6225