

DIRECT DIGITAL SHEAR APPARATUS**ASTM D3038, BS 1377;7, AASHTO T236, BS-1377-7**

This test is used to determine the shear strength of a soil sample subjected to orthogonal stress with respect to the failure plane. The sample is enclosed within a robust metal box horizontally split into two halves and provided with a vertical plunger. The shearing stress is created by imposing a movement of the lower half of the shear box, whilst applying a static load to the load plunger. In the more refined machines, called "controlled displacement equipment", the variables that may be measured during the test are as follows: vertical strain, horizontal strain, shearing stress whilst the vertical force and displacement speed are kept absolutely constant.

Digital direct shear box, floor mounted with carriage assembly and load hanger with 10:1 lever loading device.



To accept the following sample sizes:

- 60mm diameter
- 60mm square
- 100mm diameter
- 100mm square
- 2.5 inch diameter



FEATURES

- Microprocessor controlled digital stepper motor
- Control via the digital display with keyboard
- Return datum facility
- Fully steplessly variable speed over the range of 0.00001 to 9.99999mm/minute
- RS232 port
- Forward/reverse travel limit switches
- Will accept either analogue or digital measuring devices

ACCESSORIES,

- Load Ring 3 kN capacity,
- Shear box set 60 mm²,
- Shear box set 100 mm²,
- Extrusion tool,
- Dial Gauge 0,002 mm precision for vertical,
- Dial Gauge 0,01 mm precision for horizontal.
- Weight Set 50 kg,
- Weight hanger,
- Device Weight: 90 kg
- Dimension:

SPECIFICATIONS:

Product Code: BSO-221

POCKET VANE

ASTM D 2573

Used to quickly find shear strength of binding materials of soil in laboratory or field conditions. It permits the determination of a large number of strength values with different orientation of failure planes.

Direct reading dial as Kgf/cm². Measuring range: 0-1 Kgf/cm² Complete with stainless steel vane.

SPECIFICATIONS:

- Product Code : BSO-219/1 Plastic, BSO-219/2 Metal
- Weight : 300 gr.
- Dimensions : 120 x 160 x 50 mm

