



Rock Shear Box Apparatus

Standards: [ASTM D5607](#)



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Description

This apparatus was originally developed at Imperial College, London, by Professor E. Hoek. It is a simple and practical method of determining the strength and slope stability of rock, both in the field and in the laboratory. The apparatus consists of a shear box designed to accept samples not larger than 115x125 mm, or alternatively cores up to 102 mm dia. The shear box consists of two halves, the upper being connected to two rams for reversible shearing action and the lower connected to a ram for normal load application. The loads are recorded by Bourdon tube load gauges or by pressure transducers (in this case external data logger).

The normal loading system is complete with an adjustable low friction pressure maintainer to absorb volume changes of the specimen during the shearing action and to ensure a constant vertical stress..



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Main Features

Two versions are available:

- NG-ShearBox/A is supplied complete with: 5 digital gauges 25x0.001 mm (4 vertical and 1 horizontal); 2 mould formers; 2 hand operated pumps for lateral and vertical load fitted with Bourdon gauges. The pump for vertical load is fitted with a pressure maintainer to assure uniform load during the test.
- NG-ShearBox/D is supplied complete with: 5 potentiometric transducers with 25mm travel (4 vertical and 1 horizontal); 2 mould formers; 2 hand operated pumps for lateral and vertical load fitted with Bourdon gauges; 2 pressure transducers for the direct acquisition of the load values on the external data logger (supply as accessory, see Multipurpose data logger for automatic data acquisition). The pump for vertical load is fitted with a pressure maintainer to assure uniform load during the test.

Technical Specifications

NG-ShearBox	
Gauges range	50kN x 1kN
Overall Dimensions (loading frame only)	46 x 25 x 60 cm
Apprximate Weight	45 kg

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