

Model 6510

The HMA Geotechnical Systems Point Load Tester is a portable instrument used to determine the Point Load Strength Index of rock specimens.

APPLICATIONS

The Point Load Strength Test is an index test for rock strength classification. The test can measure the Point Load Strength (I_s) and the Strength Anisotropy index (I_a) of rock specimens.

FEATURES

- Microprocessor control for superior load measurement
- Compact aluminium construction, including a robust wheeled carry case for transportation
- Direct load measurement in kilonewtons (kN) or pounds force (lbf)
- Adjustable platen separation scale
- Hardened stainless steel ball set into the platen points to provide a true 5 mm point radius
- Safety screen for operator
- Open design facilitating cleaning of instrument
- 15 hour battery life, auto power off
- Automatic zero setting
- Hold down holes in base plate allow fixing to bench or anchor plates
- Records up to 1,000 peak load readings
- Design compliant to ASTM D5731 Test Procedure



SPECIFICATIONS

Range	0 – 50 kN
Accuracy	1% Full Scale
Temperature Range	0 - 50°C
Platen Separation (maximum)	76 mm
Weight	unit including carry case is 21kg
Dimensions	180 mm W x 205 mm D x 475 mm H

OPERATING PRINCIPLE

A rock specimen is placed between the conical cones and load is applied through the hand operated hydraulic jack mounted on the reaction plate. The peak load of the specimen failure is recorded and displayed on the LED screen.

The instrument is based on a two column anodised aluminium and stainless steel loading frame so as to minimise size and weight yet maintain rigidity and load capacity. The travel of the bottom platen is guided by closely toleranced bushings on the columns while platen separation is measured by a sliding scale with adjustable datum. The load measuring device is a strain gauge load cell located above the top platen. The intelligent display allows the operator to control the point Load Tester frame through its front panel keypad.

ORDERING INFORMATION

When ordering, please specify the expected specimen size and maximum point load required in kN. For any special requirements, please contact the HMA Geotechnical Head Office.



Note: HMA Geotechnical is continually improving its products and processes, information contained within this brochure is subject to change without notice

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