

Point Load Index tester

Make: LabTek

Model: SL-RK-008

Origin: India

Standards: IS 8764

Point Load Index tester, a rock testing instrument for determining the Diametrical Point Load Strength Index of rock cores and Irregular Lumps which may be tested without any treatment. The Point Load Test is primarily as index Test for strength classified of rock materials.

This instrument is mainly intended for field measurements on rocks specimen, but it can be used in the laboratory. The results of the test may also be used to predict the uniaxial compressive strength of rock from correlations. The apparatus is light and portable and can be used in the laboratory as well as in the field.

The equipment comprised the followings:

A : Loading Frame, fitted with Hydraulic Jack, hand operated, capacity 100 KN (10,000 kgf)

B : Load Gauge, 25KN (2,500 kgf) to read upto 0.25KN (25kgf)

C : Load Gauge, 100KN (10,000 kgf) to read upto 0.50KN (50kgf)

D : Conical Loading Platens

E : Diaphragm Bolt



Digital Point Load Test Apparatus

Make: LabTek

Model: SL-RK-009

Origin: India

Standards: ASTM D5731

Specification: Digital Point Load Test Apparatus consists of a 60 kN capacity load frame with a hydraulic loading ram driven by a hand pump. The frame is adjustable for testing of samples up to 102mm diameter. A ruler assembled on the frame allows the direct measurement of the distance between the conical platens before and after the test. The compression load is measured by a pressure transducer connected to an advanced digital display unit assuring the best accuracy and resistance to the failure shocks.

Safety Features:

Load range : 0 – 60 kn

Digital display : 2 x 16 characters

Resolution : 32.000 div.

Accuracy : $\pm 1\%$

Load pacer included

Load measurement in both kn and mpa

Serial port for pc connection

Brazilian Test Apparatus

Make: LabTek

Model: SL-RK-010

Origin: India

Standards: IS 10082-1982

Specification: Specification: The instrument is useful for testing specimen from 50mm dia to 100mm and of thickness of half the diameter. This is to test for indirect measurement of tensile strength of rocks. The specimen is held in circular jaws, this is primarily similar to a compression machine and consists of a small load frame having sturdy base with two vertical threaded rods and an adjustable cross head. The hydraulic jack is fitted at the centre of the base of the load frame. The jack of the load frame is self retracting and two plain platens are supplied. A pressure gauge capacity 0-100 kn x 1 kn is fixed at the base of jack. A maximum pointers is also provided on the gauge, a pair of semi circular platens for 50mm dia samples also provided. The instrument can be used in field also.

Optional Extras:

Pair of jaws for samples dia

(a) 60 mm

(b) 70 mm

(c) 80 mm

(d) 90 mm

(e) 100 mm.

