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PLT-100 POINT LOAD TESTER

ASTM D5731



Description

The point load tester accurately determines the uncorrected point load strength index I_s which is then converted to a point load index having a standard equivalent diameter (D_e) of 50 mm. The corrected $I_s(50)$ index enables rock strength classification; it can also be used to estimate the uniaxial compressive strength (UCS) and the rock's anisotropy $I_a(50)$. The device consists of a hydraulic ram, a manual hydraulic pump with a pressure gauge and a rigid two-column crosshead frame. Pressure applied by the pump displaces a piston carrying the lower conical platen. Pressure is directly read from the digital pressure gauge. The upper platen is fastened to the crosshead and a fixed graduated scale measures the sample diameter. The apparatus is supplied with front and rear protective shields. A carrying case is also provided to allow safe and efficient transportation. This instrument follows ASTM D5731 procedures.

Specifications

Standard	ASTM D5731
Load capacity	100 kN
Maximum sample size	4 inches (101.6 mm)
Pump pressure	70 Mpa
Pressure accuracy	0.2% FS
Weight	25 Kg
Dimensions	50 x 30 x 25 cm


Benefits

- Simple test
- Direct reading of specimen diameter
- Extreme rigidity
- Inexpensive instrument
- Portable, easy to carry on-site
- Attractive alternative to the UCS test because provides similar data at a lower cost

Video presentation:





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