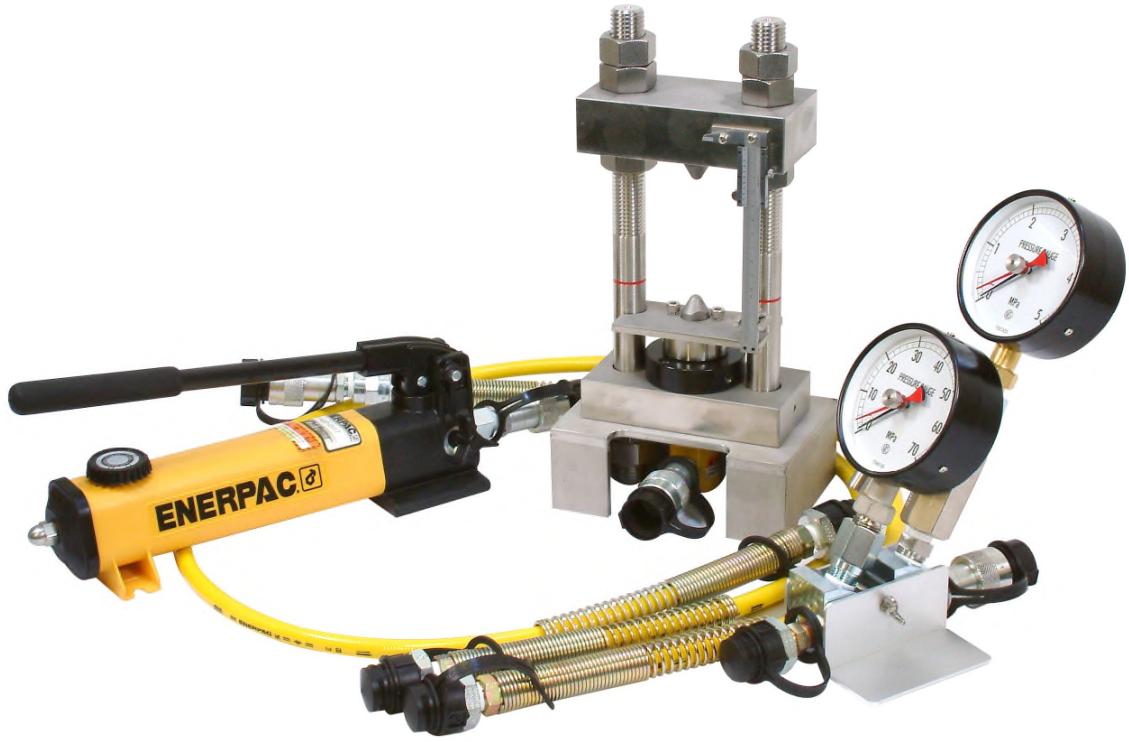
Model- 4326

GEOLOGICAL, GEOPHYSICAL, GEOTECHNICAL SERVICES AND INSTRUMENTS

OYO

POINT LOADER

Point Load Tester



<Abstract>

POINT LOADER is designed for obtaining uniaxial compressive strength from soft-rock to hard-rock.
It does not require any power supply besides a little manpower.
It is robust system and requires only easy maintenance.
Easy field operations.

Applications:
Mining
Civil constructions such as dam and tunnel and so on.

<Features>

- Light in weight, approx. 24kg including a housing case
- Apply to ISRM suggested method
- Easy handlings using oil driven hydraulic pressure with hand pump
- High-precision measurement for soil to hard-rock
- Easy measurement of size of core using the attached kit

<Specification>

Maximum load : Max. 45kN

Maximum specimen size : Max. 80mm

Maximum pressure : max.70MPa

Operating temperature : -10degree C to 50degree C

Volume : 360H x 180W x 145Dmm

Weight : approx. 24.5kg (including the case)

<Equipment Configuration>

Point Load Tester
- Main unit : 1 unit
- Storage case : 1 ea

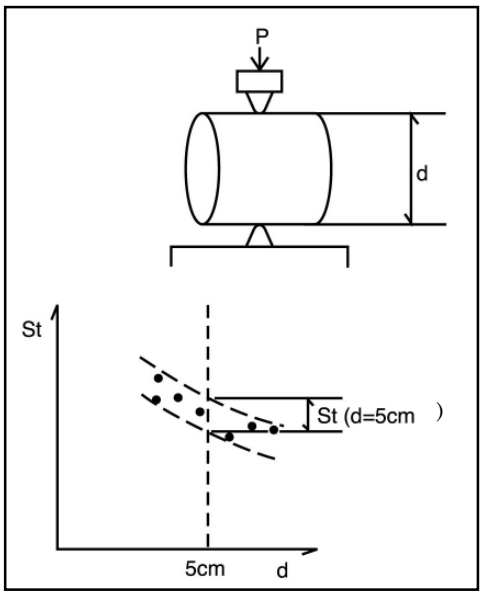
Pressurizing Instruments
- Hydraulic pump : 1 ea
- Bourdon tube pressure meter : 1 unit
- Hydraulic pressure hose : 1 ea
- Storage case : 1 ea

<Data Acquisition Method>

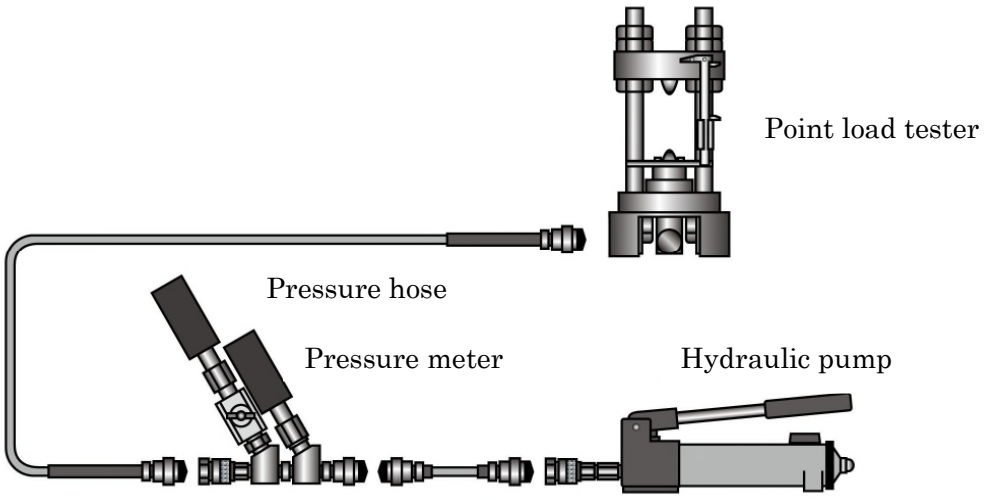
Calculation method for strength is as below.

$St = 0.9 \times P/d^2 \cdots$ (tension strength)

Since "St" varies depend on a specimen's size, it shall be determined on a basis of the time when d = 5 cm as standard. However, in case of irregular samples, its dimension would not be constant. Thus, "St" will be estimated by testing 5 to 8 specimens and organizing like following graph.



<Configuration Diagram>



Please note specifications are subject to change without notice for the improvement.

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