



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

HOEK CELL FOR ROCK TRIAXIAL - NX - 54.7MM



Compliance : ASTM D7012, IS 13047:1991, IS 9179, ASTM D5407, EN 1926 / EN 14580, ISRM

Applications:

Hoek Cells are designed for Testing Triaxial strengths of Rock or Concrete samples up to a Pressure of 40MPa. These are designed to accept samples of NX size. Tests carried out on a series of samples under different confining pressures allow the user to determine:

- Strength & Elastic properties
- Shear strength at different confining pressures
- Angle of Shearing Resistance & Cohesion
- Modulus of Elasticity & Poisson's Ratio

Core Specifications

- **Sample Diameter:** 54.7 mm (standard NX core).
- **Maximum Lateral Pressure:** 150 kg/cm² (150 bar / approx. 15 MPa).
- **Body Finish:** Hard chrome plated for rust-proofing and corrosion resistance.
- **Inlet/Outlet:** Equipped with two quick-release self-sealing couplings for efficient fluid management.

Key Components

- **Cell Body:** Robust steel construction designed to withstand high lateral pressures without deformation.
- **End Caps:** Two threaded steel caps that screw directly onto the cell body to secure internal components.
- **Loading Caps & Pistons:**
 - **Upper Assembly:** Two pieces featuring a spherical seat for uniform axial load distribution.
 - **Lower Assembly:** Two pieces featuring a radial groove for improved stability or fluid drainage.
- **Sealing Sleeve:** One-piece rubber sleeve that isolates the rock specimen from the hydraulic oil, allowing for rapid core insertion and removal without draining the fluid.
- **Hoek Cell to accept samples of EX, AX, AQ, BX, BQ, NQ, HQ, HQ3, PQ, PQ3 also available.**

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