

# Laboratory Classification

22

## Liquid Limit Cone Penetrometers



22-T0029/D—Standard model  
 (shown with Cone and Cup)



22-T0029/E—Semi-automatic model  
 (shown with Cone and Cup)

### MAIN FEATURES

- **Cast iron base with leveling feet**
- **Digital penetration measurement gauge 0.01 mm precision**
- **Micrometer vertical adjustment device**
- **Automatic zeroing**
- **Electronic release mechanism (22-T0029/E model only)**

### GENERAL DESCRIPTION

The cone penetrometer apparatus is used to determine the moisture content at which clay soils pass from a plastic to a liquid state and it is used also for the determination of undrained shear strength (CEN ISO/TS 17892-12).

Two versions available: the standard 22-T0029/D and the semi-automatic 22-T0029/E.

The penetrometer has a cast iron base with leveling screws, digital penetration measurement gauge 0.01 mm precision, release button and automatic zeroing. It is provided with lead screw gear arrangement, Leveling screws, Spirit level. The head can be clamped at any desired height. A rack and pinion pointer assembly provides fine adjustment of the cone tip to sample. It incorporates a clutch mechanism which makes reading of penetration and subsequent resetting a simple and accurate operation.

The semi-automatic model is complete with automatic controller, which automatically releases the plunger by a magnetic device, complete with micrometer vertical adjustment and adjustable electronic timer of the fall time. The electronic timer allows the user to set up and read the fall time of the needle during testing



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## Liquid Limit Cone Penetrometers



Liquid Limit Penetrometer Cone



Liquid Limit Penetrometer Cup

**Ordering:**

- 22-T0029/D : Standard model (Cone and Cup not included)
- 22-T0029/E : Semi-automatic model (Cone and Cup not included)

**Accessories:**

- 22-T0029/1.LOC : Liquid Limit Penetrometer Cone (AS 1289.3.9.1)
- 22-T0029/2A.LOC : Liquid Limit Penetrometer Cone Test Gauge (AS 1289.3.9.1)
- 22-T0029/3.LOC : Liquid Limit Penetrometer Test Cup (AS 1289.3.9.1)
- 22-T0029/4.LOC : Liquid Limit Penetrometer Test Cup (AS 1289.3.9.1 and Q104A)

Liquid Limit Cone Test Gauge, for checking conformity of both the cone angle and sharpness



Liquid Limit Cone Gauge



Liquid Limit Angle Gauge



Liquid Limit Cone Sharpness Tester



53 Granite Street, GEEBUNG, QLD, 4034, Australia | P.O. Box 124, VIRGINIA, QLD 4014, Australia

Ph.: +61 (0)7 3265 4952 | Fax: +61 (0)7 3265 2713 | Email: sales@geo-con.com.au | Web: www.geo-con.com.au