

Compaction Testing

Vebe Consistometer

UTC-0560

The UTC-0560 Vebe Consistometer is used to establish the consistency of fresh concrete by subjecting the concrete specimen to vibration after the slump cone has been removed. The assembly is mounted upon a small vibrating table operating at a fixed amplitude and frequency. The concrete consistency can be determined by the time required to complete the vibration.



The Vebe Consistometer is supplied complete with:

- Vibrating table
- Slump cone
- Graduated rod with transparent disc
- Filling funnel
- Tamping rod

Compacting Factor Apparatus

UTC-0580

The compaction factor of concrete with low, medium and high workability can be determined by using the UTC-0580 Compacting Factor Apparatus. The apparatus consists of two conical hoppers that both have a hinged trap door attached to the lower end. This allows the concrete sample to flow freely into the cylindrical mould. A rigid steel frame holds the hoppers and mould, which can be easily removed for cleaning.

Degree of Compability (Waltz) Container

UTC-0550

The degree of compactability of fresh concrete can easily be measured by using the UTC-550 Degree of Compability (Waltz) Container. It includes a 200x200x400mm metal container with two carrying handles. The entire unit is coated against corrosion.

Kelly Ball Apparatus

UTC-0570

In the 1950's, the United States developed a fast alternative to the slump test, known as the Kelly Ball test. The test is straightforward and inexpensive and can be quickly executed on in-place concrete. The results can then be correlated to slump. The UTC-0570 Kelly Ball Apparatus consists of a 152mm diameter ball which slides through a frame that rests on the fresh concrete.



Technical Specifications

Model	UTC-0560
Vibrating Table	380x260 mm
Cylindrical bucket base diameter	240 mm
Cylindrical bucket height	200 mm
Slump cone upper base diameter	200 mm
Slump cone top diameter	100 mm
Slump cone height	300 mm
Dimensions	570x460x670 mm
Weight (approx.)	87 kg
Power	170 W

Model	UTC-0580
Dimensions	300x400x1300
Weight (approx.)	41 kg

About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.

Other Equipment

PCTE supply three main ranges: NDT, Lab and Geotech Instrumentation.

NDT includes: Rebound Hammers, Covermeters, Ultrasonics, GPR, Corrosion Testing, Coating Testing and Foundation Testing

Lab includes equipment for: Concrete, Cement, Aggregate, Soil, Asphalt and Metal

Geotech Instrumentation includes: Strain Gauges, Piezometers, Inclometers, Extensometers, Tiltmeters, Load Cells and Dataloggers