

Field Sampling

Hand Boring and Sampling Set

UTS-0024

The UTS-0024 Hand Operated Auger Boring Set consists of a T-Handle with 1 m Rod, 80 mm, 100 mm and 150 mm diameter Auger Heads.

The set is useful for auguring down to a depth of 5 meters.

Extension rods should be ordered separately.



Heavy Duty Pocket Penetrometer

UTS-0084

The Heavy Duty Pocket Penetrometer is designed for making field classification of cohesive soils in terms of consistency, shear strength and approximate unconfined compressive strength. The heavy duty model is made from stainless steel, and has three interchangeable tips: 4.5 mm dia. for very hard soil, 6.35 mm for medium and soft soil, 8.98 mm for soft soil. The model comes supplied complete with a plastic case.



Surface Soil Sampler

UTS-0965 / UTS-0967 / UTS-0970 / UTS-0975

A Surface Soil Sampler (Core Cutter) is used to determine the insitu density of soil by taking a standard volume of soil sample from the ground which is then removed, trimmed and weighed.

The 76.2 and 101.6 mm Surface Soil Sampler kits comprises of a drive head, 5 kg drive hammer and a thin wall sampling tube. 5 kg sliding weight drop hammer makes a free-fall on to the driving head which is placed on top of the sampling tube. Manufactured from steel and plated for corrosion resistance.

The 100 mm Surface Soil Sampler Set consists of a driving dolly, 13,5 kg driving rammer and 100 mm dia. x 130 mm high core cutter.

The 150 mm Surface Soil Sampler Set consists of a driving dolly, 16 kg driving rammer and 150 mm dia x 180 mm high core cutter.



Field Sampling

Pocket Dial Penetrometer

The UTS Series of Pocket Dial Penetrometers are perfect tools to determine the penetration resistance of cohesive soil, especially when various range measurements are required. Different pressure range and plunge diameters are available for specific applications. All Dial Penetrometer models have a 60 mm dial diameter and are created with Peak Hold Feature. The UTS-0075 Pocket Dial Penetrometer is used for evaluating the angle of internal friction "j" of sandy soils and the cohesion "c" 2 in clay soils. Dual scale: 0-6 kgf/cm for 6.35 mm diameter 2 plunger and 0-11 kgf/cm. The UTS-0078 Pocket Penetrometer is a compact and user-friendly piece of equipment, used to perform field classification of cohesive soils in terms of consistency, shear strength and approximate unconfined compressive strength.

Field Inspection Pocket Vane Tester

UTS-0082

The Field Inspection Pocket Vane Tester is especially designed to measure the undrained shear strength (CU) of cohesive soils. The apparatus has a cylindrical body with a torsional spring and three interchangeable vanes of different sizes, which can be used depending upon the expected strength of the soil. The height/diameter ratio of all vanes is 2. During operation, the vane is driven for 5-6 cm into the soil and then turned with the handle. Deep measures (i.e. on the top of undisturbed samples) can be obtained using the extension rod. The apparatus has a stainless-steel construction and is supplied in a plastic case. Extension rod should be ordered separately.



Technical Specifications

Product Code	Range (kg / cm ²)	Plunger Ø (mm)
UTS-0070	0-6	6.35
UTS-0072	0-14	6.35
UTS-0075	0-6	6.35/10/15/20/25
UTS-0078	0-5	6.35
	Dimensions (mm)	Weight (kg)
UTS-0070	100 x 200 x 60	0.5
UTS-0072	100 x 200 x 60	0.5
UTS-0075	100 x 200 x 60	0.5
UTS-0078	20 x 20 x 180	0.5



Technical Specifications

UTS-0082	
Vane Dimensions (Height x dia)	32 x 16; 40 x 20; 50.8 x 25.4 mm
Measuring Range	0 to 240 kPa
Torque Value	5 N-m
Extension Rod	500 mm depth
Overall Dimensions	310 x 105 mm
Weight	1.3 kg

Field Sampling

Field Inspection Testing Kit

UTS-0080

The Field Inspection Testing Kit is ideal for geotechnicians, geologists and agronomists. It includes the UTS-0084 Pocket Penetrometer and of the UTS-0082 Field Inspection Pocket Vane Tester. A practical carrying case contains tools for user convenience.



Water Level Indicator

UTS-0050

The Water Level Indicators (Electric Contact Meters) are easily transported, user-friendly and reliable instruments used for measuring water level and total depth in bore holes, wells, observation pipes, reservoirs. They are also used to control pumping tests.

When the measuring probe electrode touches the water's surface, the signal indicator fitted to the instrument instantly lights up and sounds a loud alarm. The measuring tape on the instrument displays the water level in both meters (m) and centimetres (cm).



Technical Specifications

UTS-0084 Heavy Duty Pocket Penetrometer

Measuring Range	0 to 10 kgf/cm ²
Dimensions	210 mm length x 20 mm dia
Weight	0.5 kg

UTS-0050

Measuring Range	50 m, 100 m, 150 m, 200 m
Accuracy	1 cm over 100 m range
Reproducibility	0.5 cm
Pressure Tightness	1 Mpa [up to 5 Mpa Possible]
Probe	Chromium-plated brass
Standard Version	14 mm dia. 140 mm long
Special Version	10 mm dia. 320 mm long
Cable	Polyethylene with 2 steel cores (anticorrosive) with polyamide-coated steel tape, graduation in millimeters (mm), in centimetres (cm) and numbering in decimetres in black color, the meters (m) figures are red colour on yellow-green base
Cable Drum	Hard Rubber, plastic material and temperature resistant
Power supply	3V DC.2 baby-cells each 1.5V

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.