

Shear Strength

TL-202

Triaxial Shear Test Apparatus with Software

Triaxial shear strength

IS 2720-11 IS 2720-12

Computerised triaxial set for 38 mm soil specimens with 50 kN three-speed frame, sensors, software and air-water pressure system, to IS 2720 (Part 11).

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Description

A computerised triaxial set for 38 mm diameter soil specimens, built to IS 2720 (Part 11). It has a 50 kN loading frame with three speeds, a 500 kg load cell, an LVDT reading 0.01 mm over 25 mm of travel, a pressure sensor, and a microprocessor-based controller with software.

The triaxial cell has a stationary bushing. It comes with a Perspex loading pad, a pair of Perspex plain discs and a pair of porous stones (the discs and stones are 38 mm × 6 mm), a split sand former, a sheath stretcher, a dozen rubber sheaths, synthetic rubber O-rings and a plastic drainage tube.

Confining pressure and back pressure come from two water-filled cells pressurised by an air compressor, up to 10 kg/cm². Each line has its own pressure gauge, reading to 0.1 kg/cm², and a pressure control valve.

Supplied ready for use with operating manual and test certificate. Contact us for configuration options, accessories and calibration services.

Technical specifications

Specimen size	38 mm dia
Load frame	50 kN, 3 speeds
Load cell	500 kg
LVDT	0.01 mm × 25 mm travel
Control	Microprocessor controller with software
Confining & back pressure	Up to 10 kg/cm², air over water
Pressure gauges	2, reading to 0.1 kg/cm²