

Shear Vane Tester

IN SITU SOIL TESTING INSTRUMENTATION

FEATURES

- Exchangeable vane sizes
- 0.5m extension rods
- Built in accordance to Australian Standard
- Installed and extracted by strong handle
- Heavy duty design
- Carrying case with 3 wrenches

APPLICATIONS

- Civil construction projects
- Measures undrained shear strength of soils, mainly clay
- Designed to measure the in-situ strength of granular subgrades, base and sub-base material
- Rapid check on foundation stability, excavation & trenches



TECHNICAL SPECIFICATIONS

WEIGHT

Instrument	0.4 kg
Extension Rod *	0.3 kg
Vane 16 x 32 mm	0.05 kg
Vane 20 x 40 mm	0.05 kg
Vane 25.4 x 50.8 mm	0.06 kg
Vane dummy	0.05 kg
Carrying case with 3 wrenches	0.67 kg

* Six extension rods (included) will allow depth measurement to 3 metres

OPERATING PRINCIPLE

The SVT is lightweight, and perfect for providing a quick analysis of the stability of foundations, excavations, and trenches in clay.

The H-60 has exchangeable vanes in the following dimensions:

16 mm x 32 mm
20 mm x 40 mm
25.4 mm x 50.8mm (extended)
0.5 metre rods

The various vane sizes can be used to measure the shear strength of

0 – 60 kPa
0 – 130 kPa
0 – 260 kPa

The scale-ring determines the peak value, which must be set to at the zero position before each measurement. During penetration retraction of the vane, the strength of the instrument allows it to act as a handle.

The extension rods have been specially designed to ensure the connections have the maximum resistance to bending.

Stiffer clays: penetration down to 1–2 meters below the surface is possible
Soft clays: measurements down to 3 meters have been carried out with reasonable correlation to full-scale field vane tests.