Pocket Vane Shear Test Apparatus

LT-S0022 | Rapid shear-resistance assessment of cohesive soils

Manual measurement • Field and laboratory • Plastic carrying case



1 kg

APPROXIMATE WEIGHT

240 × 210 × 50

EXTERNAL DIMENSIONS • mm

Approximate undrained strength assessment in fine-grained cohesive soils

LT-S0022

Photographs and Apparatus Components

Pocket measuring body, vane heads and protective carrying case

The Pocket Vane Shear Test Apparatus rapidly assesses approximate undrained shear strength in cohesive soils. Manual operation supports comparative checks on exposed field surfaces, excavations and suitable laboratory specimens.

VANE HEAD

Blades inserted into the soil mobilize shear resistance during rotation.

MEASURING BODY

Controlled manual rotation supports evaluation of soil resistance to movement.



PROTECTIVE INSERT

The protective arrangement inside the case helps retain components during storage.

CARRYING CASE

The plastic case simplifies transport between field and laboratory locations.



Manual measuring body and spring arrangement



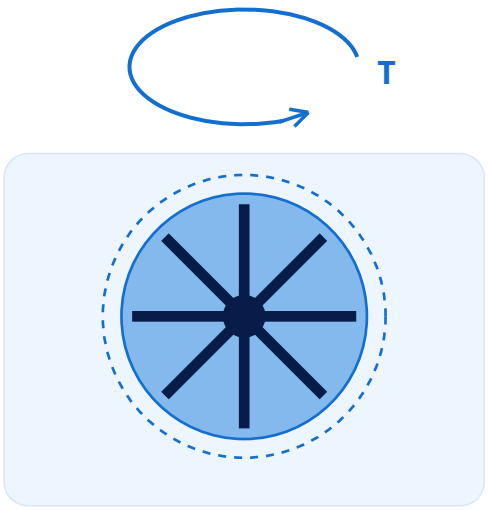
Close view of the vane heads

LT-S0022

Rapid Assessment from Rotational Resistance

Select specimen • Position blades • Rotate in a controlled way • Record reading

VANE BLADES + COHESIVE SOIL + ROTATION



Select the Specimen

Choose representative cohesive soil and a suitable test surface.

Position and Rotate

Insert the vane head appropriately. Rotate the instrument manually in a controlled way.

Read and Record

Record the reading together with the selected head and specimen conditions.

As the blades turn, the soil resists rotation. This resistance gives rapid preliminary information on cohesive-soil shear behaviour. Compare results while considering soil type, specimen condition and the way the measurement was performed.

Field and Shelby Tube Specimens

Use the instrument on suitable soil surfaces in excavations or on cohesive specimens brought to the laboratory. Samples recovered in Shelby tubes provide a useful application for rapid comparative checks.

Select a representative surface and consider the influence of visible fissures, coarse particles and disturbance. Keep conditions similar when comparing measurements within a test series.

Manual and Portable Construction

The LT-S0022 operates without electricity, a hydraulic power unit or compressed air. The plastic carrying case keeps the instrument and heads organized during storage and transport between test locations.

An approximate weight of 1 kg and external dimensions of 240 × 210 × 50 mm support easy transport between field and laboratory. Link each measurement record to specimen identity and location.

LT-S0022

Technical Specifications and Applications

LT-S0022 | Manually operated pocket vane shear apparatus

Parameter	Description / Specification
Product Code	LT-S0022
Operating Principle	Soil resistance to vane rotation
Assessment	Approximate undrained shear strength
Soil Group	Fine-grained cohesive soils
Field Application	Suitable exposed surfaces and excavations
Laboratory Application	Rapid checks on suitable cohesive specimens
Tube Specimen Application	Samples recovered in Shelby tubes
Operation and Transport	Manual operation • Plastic carrying case
External Dimensions	240 × 210 × 50 mm
Approximate Weight	1 kg

Interpret Readings with Specimen and Test Conditions

Record soil type, moisture condition, selected head and test location. Use readings for rapid preliminary assessment and comparisons between specimens tested under similar conditions.

Pocket Vane Measurement Workflow

01
Select
Choose a suitable specimen and test surface.

02
Position
Insert the blades carefully into the specimen.

03
Rotate
Turn the instrument manually in a controlled way.

04
Record
Retain the reading with specimen information.

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