



GEONOR H-70

FIELD INSPECTION VANE TESTER

Key Features & Capabilities

- **Field Investigation:** Preliminary analysis of undrained shear strength in soft to medium stiff clays.
- **Accurate Friction Evaluation:** Unique 180-degree slip-coupling system provides a better evaluation of rod-soil friction.
- **Deep Penetration:** Reach 10 meters by direct penetration using hammering, drilling, or pressing, with no pre-boring required.
- **Flexible Measurement:** Two vane sizes with measurement ranges of 0 to 80 kPa and 0 to 160 kPa.
- **Professional & Portable:** Lightweight for one-person operation, with a durable, highquality stainless steel vane.

The Key to Accurate, Cost-Effective Field Data

The field vane shear test (FVST) is the most widely used method for measuring the undrained shear strength of soft clays in situ. A preliminary test with an inspection vane is economical, relevant, and provides quick, repeatable data for planning more detailed surveys.

However, to obtain reliable results, your equipment must meet three requirements:

- 1. Avoid Soil Disturbance:** The tester must allow direct penetration from ground level to avoid disturbances from boreholes.
- 2. Account for Friction:** To prevent costly overestimations, the equipment must account for rod-soil friction, which is common below 3 meters.
- 3. Be Durable:** The vane must be reliable even under the challenging conditions of deep operation.





The H-70: The Professional, Low-Cost Solution

The Geonor H-70 was originally developed in Norway specifically for preliminary investigations in soft clays without pre-boring. It is a comparatively low-cost, yet entirely professional instrument designed to meet all three requirements.

- ⦿ Its most critical feature is the unique 180-degree «anti-friction» slip-coupling system. This system enables the operator to consistently determine the actual friction between the rods and the soil, thereby eliminating the primary source of costly overestimations.
- ⦿ Combined with its 10-meter depth capability and durable stainless steel construction, the H-70 is the ideal, portable tool for accurate, professional, and cost-effective field inspections.

Technical Characteristics:

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⊙ **Installation:**

Sledge hammer, portable rock drill or pressed down

⊙ **Instrument accuracy:**

+/- 3% of full range

⊙ **Two sizes of vanes:**

Range of measurement from 0 to 80 kPa (0-8 T/m²)
and 0 to 160 kPa (0-16 T/m²)

ORDER REFERENCES

Quantity	Part No.	Description
	221500	Vane tester complete for 10 m depth:
10	10200	Extension rod, 25 x 1000 mm
10	221520	Connection piece, M18 x 1,5
1	221521	Drive head, hexagonal, 24 mm, M18
1	221524	Spanner for extension rods
1	21501	Instrument for field inspection vane
1	221502	Adaptor, hexagonal, 24 mm
1	221503	Lower part for field inspection vane
1	221504	Vane, 60 x 120 mm: 0-160 kPa
1	221505	Vane, 75.8 x 151.5 mm: 0-80 KPa
1	221517	Extractor for Ø22 & 25 mm extension rods
1	221527	Ball cone clamp, 21-28 mm
1	221507	Crowbar
1	221508	Transport case, steel