



Interface Shear Tester (GDSIST)

Overview: The GDS Interface Shear Tester (GDSIST) has been designed to test the shear interface between the soil specimen and the sample top-cap. Top-cap interfaces of differing roughness can be used to simulate differing insitu conditions.

The GDSIST is a CRS consolidation cell with the ability for the base pedestal to infinitely rotate. The internal load cell measures the axial force on the specimen as well as the applied torque.

Key Features:

Benefits to the User:

Interface friction studies:	The most common uses for the GDSIST include studies of interface friction, for example between geomembranes, pipeline footings and natural materials
Load cells:	Low range load cell for accurate low stress testing of axial load and torque.
Stainless steel:	Available in stainless steel for corrosive sample testing.
Internal submersible load cell:	This allows the user to measure friction between the sample and material without errors being introduced by the seal friction on the ram.
Compact:	Small laboratory footprint.
GDS force actuators for axial stress:	Accurate electro-mechanical control of axial force and displacement with keypad + display for local control.

Tests that can be Performed:

Some typical applications of tests available in the GDSIST include one-dimensional specimen consolidation and rotational shearing under torque or rotation control.

Upgrade Options:

Unsaturated testing.

Technical Specification:

Actuators:	1 off vertical, 1 off torsional
Axial Force Accuracy:	±0.2%
Axial/Torque Force Range:	0.2kN/20Nm, 1kN/10Nm or 5kN/200Nm
Computer Interface:	USB
Power:	Table top frame: 240V, Control systems: 100-240V~1.6A MAX
Pressure Range (MPa):	1, (2MPa cell available upon request)
Sample Sizes (mm):	38, 50, 70, 100, other sample sizes available upon request

Why Buy GDS?

GDS have supplied equipment to over 84% of the world's top 50 Universities:

GDS have supplied equipment to over 84% of the world's top 50 Universities who specialise in Civil & Structural Engineering, according to the "QS World University Ranking 2019" report.

GDS also work with many commercial laboratories including BGC Canada, Fugro, GEO, Geolabs, Geoteko, Golder Associates, Inpijn Blokpoel, Klonn Crippen, MEG Consulting, Multiconsult, Statens Vegvesen, NGI, Ramboll, Russell Geotechnical Innovations Ltd, SA Geolabs, SGS, Wiertsema and Partners to name a few.

**TOP
50**

Would you recommend GDS equipment to your colleague, friend or associate?

100% of our customers answered "YES"

Results from our post-delivery survey asked customers for feedback on their delivery, installation (if applicable), supporting documentation, apparatus and overall satisfaction with GDS. The survey ran for two years.



Made in the UK:

All GDS products are designed, manufactured and assembled in the UK at our offices in Hook. All products are quality assured before they are dispatched.

GDS are an ISO9001:2015 accredited company. The scope of this certificate applies to the approved quality administration systems relating to the "Manufacture of Laboratory and Field Testing Equipment".

**40 YEARS OF
BRITISH
INNOVATION**



Extended Warranties:

All GDS apparatus are covered by a 12 month manufacturers warranty. In addition to the standard warranty, GDS offer comprehensive extended warranties for 12, 24 and 36 months, for peace of mind against any repairs in the future. The extended warranties can be purchased at any time during the first 12 months of ownership.



GDS Training & Installation:

All installations & training are carried out by qualified engineers. A GDS engineer is assigned to each order throughout the sales process. They will quality assure the apparatus prior to shipping, if installation has been purchased, install the apparatus on the customers site & provide the training.



Technical Support:

GDS understand the need for ongoing after sales support, so much so that they have their own dedicated customer support centre. Alongside their support centre GDS use a variety of additional support methods including remote PC support, product helpsheets, video tutorials, email and telephone support.

