



Strata Control Technology

Geotechnical consulting, research and instrumentation for mining and civil industries.

SmartShear

Measure Development of Bedding Plane Shear

The SCT SmartShear is a cost effective routine shear monitoring instrument for borehole application in underground excavations based on a MEMs tiltmeter sensor. SmartShear allows for accurately determining the location, timing, magnitude, and sense of shear displacement in 3D.

SmartShear provides sufficient resolution to resolve discrete bedding plane shear and strata failure surfaces. The instrument allows fast and easy installation into open boreholes. Easy activation of the mechanical anchors means monitoring can start immediately as no borehole grouting is required.

SmartShear can be ordered with customisable bay length to suit any routine or campaign monitor requirements.

FEATURES

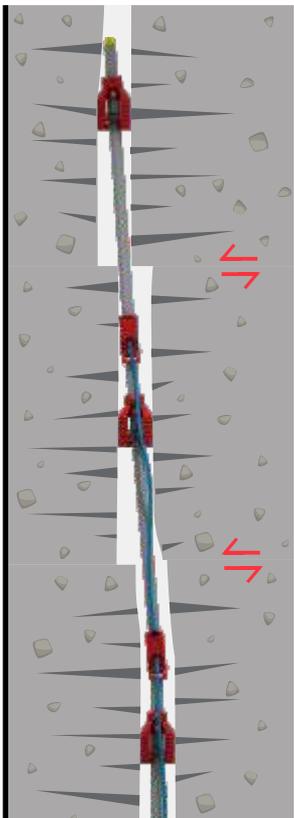
Cost effective routine shear monitoring

3D interpretation of shear displacement

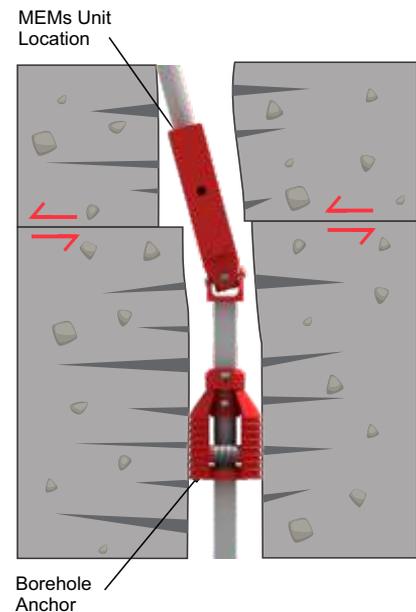
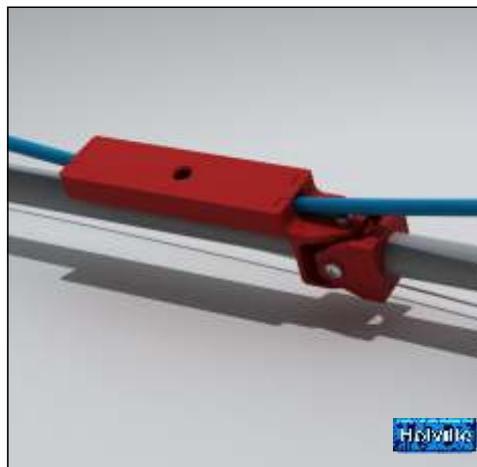
No grouting required

Customisable design of bay length to suit application

Fast and easy installation



- ◆ Determine accurate location of bedding plane shear(s) in 3D
- ◆ Determine accurate timing and magnitude of bedding plane shear(s) in 3D
- ◆ Save time and cost with easy routine monitoring





SmartShear

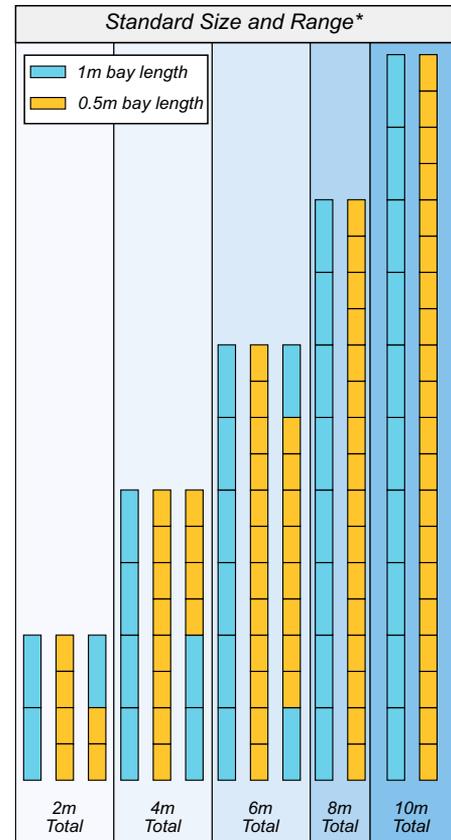
Measure Development of Bedding Plane Shear

Installation

SCT SmartShear is typically installed into a 55-60mm diameter hole and requires no borehole grouting.

Orientation marks on the bottom of the unit ensure that SmartShear is correctly aligned to your preferred orientation for routine or campaign monitoring.

A single readout cable can be easily connected to a logger allowing high frequency monitoring.



*Custom lengths and combinations are available upon request

Analysis

MS Excel spreadsheets developed by SCT incorporate calibration factors that enable plotting of borehole deviation, shear location, sense of shear, cumulative displacement and shear displacement.

