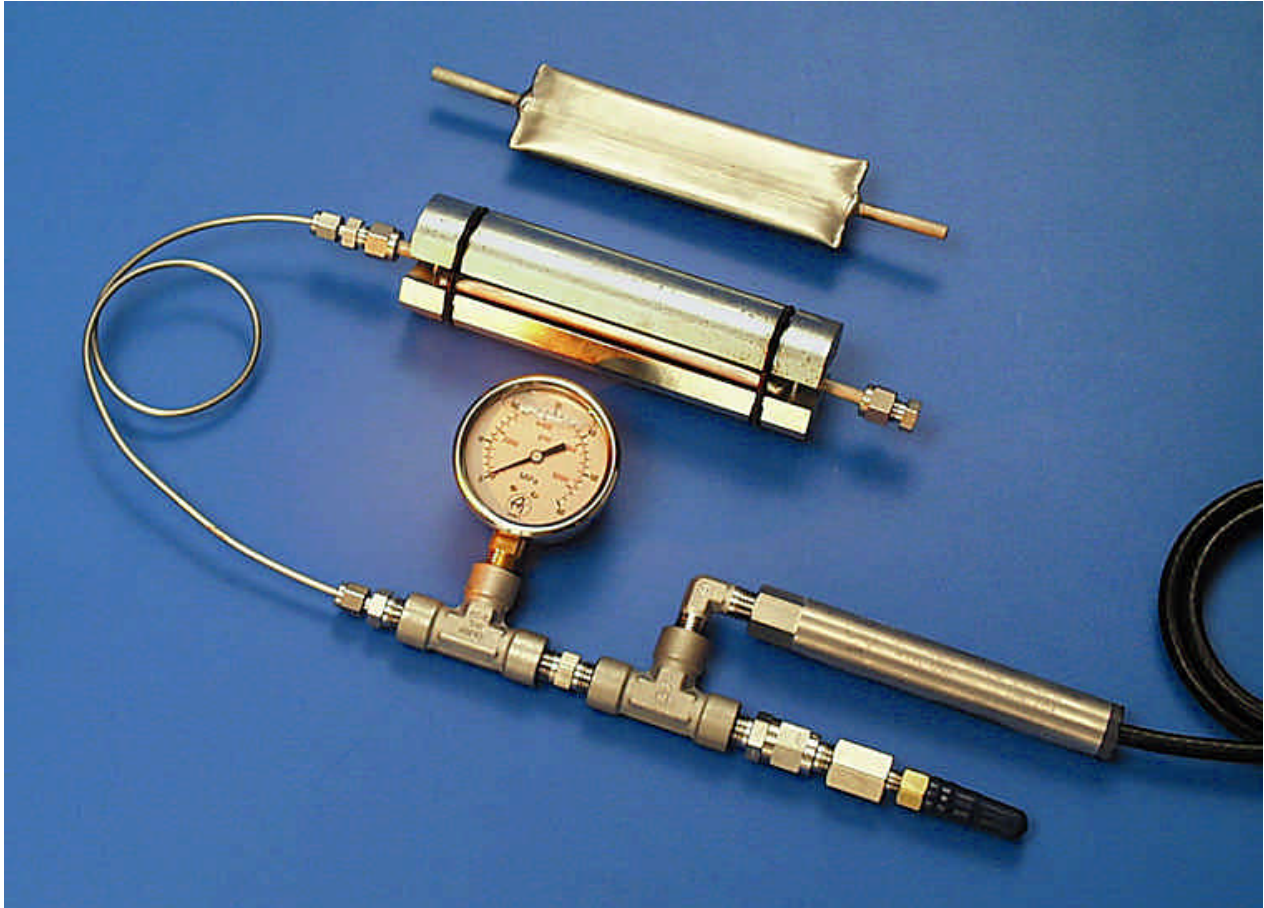


# HYDRAULIC BOREHOLE STRESS CELL

## MODEL 3000

The Geotechnical Systems Australia Pty Ltd [Hydraulic Borehole Stress Cell](#) is a soft inclusion type cell consisting of an inflatable flat jack with or without platens. The cell is placed in a 51 mm diameter borehole, grouted if used without platens and then pressurised. Stress change is monitored with either a Bourdon tube gauge or any suitable diaphragm type transducer, or both.



The Hydraulic Borehole Stress Cell is an economic, accurate, robust and easy to use unit. It is cheaper to use than the alternatives due to its inherent lower installation, monitoring and unit costs and subsequent minimum support requirements. Importantly, its ease of use allows on-site mine staff to be totally self sufficient, permitting more frequent and extensive strata control programs than is possible with alternative stress meters. These programs could include the design and subsequent assessment of optimal pillar and panel layouts. Installation does not require specialist tools and can be carried out by mine staff in boreholes drilled with standard mine equipment. Monitoring can be carried out by simply reading an attached dial gauge or via any diaphragm type transducer using a handheld readout or dedicated datalogger.



ISO 9002 Lic 4022  
Standards Australia

**GEO**TECHNICAL SYSTEMS AUSTRALIA PTY. LTD.

Specialists in Geotechnical Instrumentation

ACN 006 720 887  
ABN 28 006 720 887



SPECIFICATION	HYDRAULIC BOREHOLE STRESS CELL	Model 3000
Unit Dimensions	250 mm(L) x 51 mm(Dia)	
Borehole Diameter	51 mm	
Maximum Borehole Length	20 metres	
Pressure Ranges	0 – 10, 16, 25, 40 & 60 MPa	
Accuracy	+/- 0.5 %FS (Dependant on Reading System)	
Measurement Options	Bourdon Pressure Gauge Vibrating Wire Transducer User Specified Diaphragm Transducer	

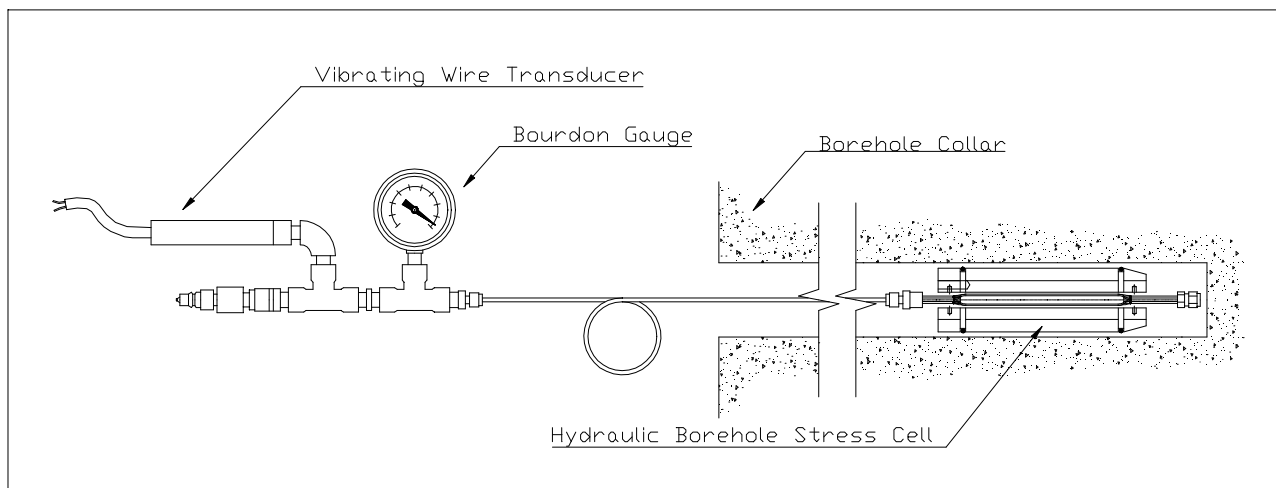
## ANCILLARY EQUIPMENT

- Portable readout units and Bourdon pressure gauges
- Single channel dataloggers
- Multi channel dataloggers
- Terminal Boxes

## ORDERING INFORMATION

When ordering, please also specify

- Model Number and Quantity
- Whether Platens are Required
- Length of Stainless Steel Tubing Required
- Pressure Range Required
- Measurement Option
- Readout Option
- Any Special Requirements



Because Geotechnical Systems is continually improving its products and processes, information contained within this brochure is subject to change without notice.

For more information or to discuss your application, contact...

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