

### MODEL 5020

The Geotechnical Systems Australia Pty Ltd [Hydraulic Load Cell](#) is constructed of a stainless steel annular element flat jack filled with an incompressible fluid. The load is distributed equally over the loading area by thick steel plates. When the load is applied to the cell, it causes a pressure increase in the hydraulic fluid, and this is measured on either a Bourdon tube gauge or electrical transducer.



### APPLICATIONS:

Hydraulic Load Cells are designed to measure uniaxial loads in the following applications:

- Rock anchors
- Soil anchors
- Concrete pre and post tensioning
- Measurement of compressive loads between structural members

### FEATURES:

- Long term stability
- Ability to be data logged
- No expensive readout required
- Very economical, compared to electrical load cells
- No intrinsic safety certificate required in coal mines
- Can be re-used after monitoring program is finished
- Manufactured locally with local backup

# Hydraulic Load Cell

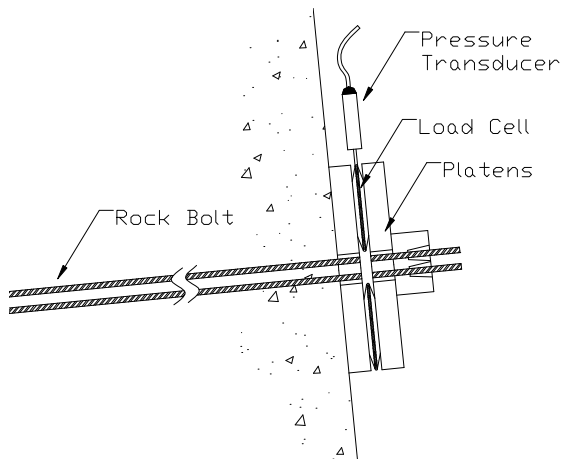
SPECIFICATION	HYDRAULIC LOAD CELL	Model 5020
Load Range	0-250kN, 0-500kN	0-300kN
Outside Diameter	150mm	100mm
Inside Diameter	45mm	30mm
Gauge Size	63mm	63mm
Gauge Capacity	25Mpa, 60Mpa	60Mpa

## CALIBRATION

Geotechnical Systems' Load Cells are calibrated before delivery using our NATA certified load frame.

## ANCILLARY EQUIPMENT

- Distribution plates
- Spherical seats
- Spare gauges



Typical Installation of Load Cell

