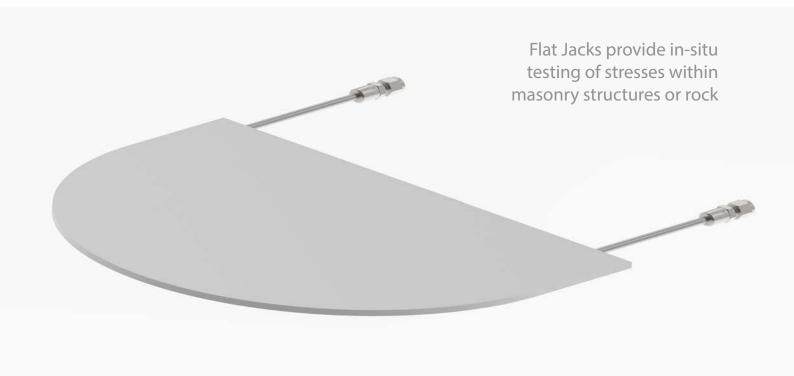


Flat Jack

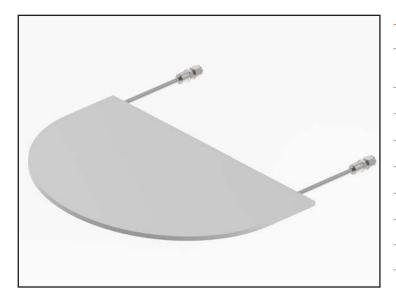




Flat Jack

Overview





Flat jacks are designed to carry out in-situ testing of masonry structures and rock.

The flat jack is constructed from two stainless steel plates welded around their periphery, with the narrow gap between the plates filled with hydraulic fluid. It is inserted into a slot cut into the structure to be monitored and gradually brought up to pressure with a special hydraulic pump.

As stress increases within the structure or rock, the fluid pressure within the cell rises as the plates are squeezed together and it is possible to derive the stresses acting in the structure test area.

A length of stainless steel tube connects the plates to a pressure transducer (VWDT 5000 or SGT 3000) that converts the pressure to an electrical signal which can be read directly with a MP12 readout or data logged.

APPLICATIONS

Measurement of in situ stress

Evaluation of the mechanical properties of concrete and rock masses

Monitoring of variations in the stress state

Restoration of monuments and historical buildings

Sheet piles

Tunnel lining

Fills & embankments

Mine backfilling

Rail track

FEATURES

Robust and reliable

Available in various sizes

Possibility of automatic monitoring

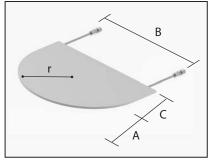


Flat Jack

Specifications

FLAT JACK

Material	Steel	
Thickness	4mm	
Max operating pressure	60 bar	
Exterior finish	Painted	
Standard dimensions	Semi-circular Semi-circular	B: 350mm A: 175mm C: 0mm r: 175mm B: 325mm A: 120mm C: 0mm r: 120mm
	Semi-oval Rectangular	B: 350mm A: 260mm C: 85mm r: 175mm 400mm x 200mm



PRESSURE TRANSDUCER

Туре	Vibrating wire, piezoresistive	
Material	Stainless steel	
Pressure fitting	Swage lock type	
Output	Frequency, 4-20 mA	
Measuring range	1-2-5-10 bar (others on request)	
Total accuracy	<0.5% FS (others on request)	
Operating temperature	-20 to +75 ° C	
HYDRAULIC PRESSURE PUMP		
Hand pump	Includes 100 bar pressure gauge & T-fitting	
Connection kit	Includes ball valve & nylon tube	





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