



Hydraulic Load Cell Model 4500-RT-HYDLO

FEATURES

- **Rugged construction**
- **Compact size**
- **Easy to install and read**
- **Direct load measurement with pressure gauge**
- **Negligible drift—suitable for long-term measurements**
- **No maintenance required**
- **Remote reading available**
- **Not affected by eccentric loading**

APPLICATIONS

The **HYDLO** Hydraulic Load Cell is designed for direct measurement of loads in tiebacks, foundation anchors, rockbolts, struts or tunnel supports.

ROCTEST



HYDLO Hydraulic Load Cell

Description

The Roctest model **HYDLO** consists of a sealed cell composed of two plates welded together around the periphery, and filled with de-aired oil. The cell is directly connected to a pressure gauge. The load applied to the cell induces an oil pressure variation, which is sensed by the gauge. The compact size of the **HYDLO** eases installation and allows for quick and simple readings.

Two configurations of **HYDLO** are available. To monitor a tensile load, a hollow centre cell enables the passage of an anchor through the cell. To monitor a compressive load, a solid centre cell is used.

With both of these configurations, remote pressure reading is available by connecting the cell with flexible tubing to a remote vibrating wire, electrical 4-20 mA, or hydraulic pressure

transducer. This optional feature

suits situations where access to the cell is difficult.

The **HYDLO** can accommodate small inclinations in loading. Larger misalignments should be compensated with the use of spherical seats.

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Options
<ul style="list-style-type: none"> • LCD display • Maximum pressure indicator • Remote reading with vibrating wire, electrical 4~20 mA, or hydraulic pressure transducer • Specific capacity and di-

Accessories
<p><i>mensions</i></p> <ul style="list-style-type: none"> • Distribution and bearing plates • Spherical seats for extreme misalignment compensation • Portable readout unit • Data acquisition system

Ordering Information
<p>Please specify:</p> <ul style="list-style-type: none"> • Capacity • Hollow or solid centre cell • Options and accessories

Specifications

MODEL:	HYDLO-250	HYDLO -500	HYDLO-750	HYDLO-1000	HYDLO-1500	HYDLO-2000	HYDLO-5000
ACCURACY:	+1% F.S.						
TEMPERATURE SENSIBILITY:	0.1% per degree Celsius						
OPERATING TEMPERATURE:	-20°C to +60°C						
OVERLOAD:	20% of Rated Capacity						
CAPACITY:	250 kN	500 kN	750 kN	1000 kN	1500 kN	2000 kN	5000 kN
DIMENSIONS:							
A:	35 mm	50 mm	75 mm	105 mm	105 mm	135 mm	160 mm
B:	123 mm	144 mm	180 mm	219 mm	244 mm	265 mm	380 mm
C*:	144 mm	162 mm	202 mm	236 mm	261 mm	288 mm	408 mm
CELL THICKNESS:	28 mm	28 mm	28 mm	28 mm	30 mm	30 mm	50 mm
DISTRIBUTION PLATE THICKNESS:	30 mm	40 mm	40 mm	45 mm	45 mm	65 mm	85 mm
PROTECTIVE HOUSING:	70 x 115 x 162 high						

Due to on-going design improvements and reviews, we reserve the right to amend product and specifications without prior notice



FOR FURTHER INFORMATION

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