

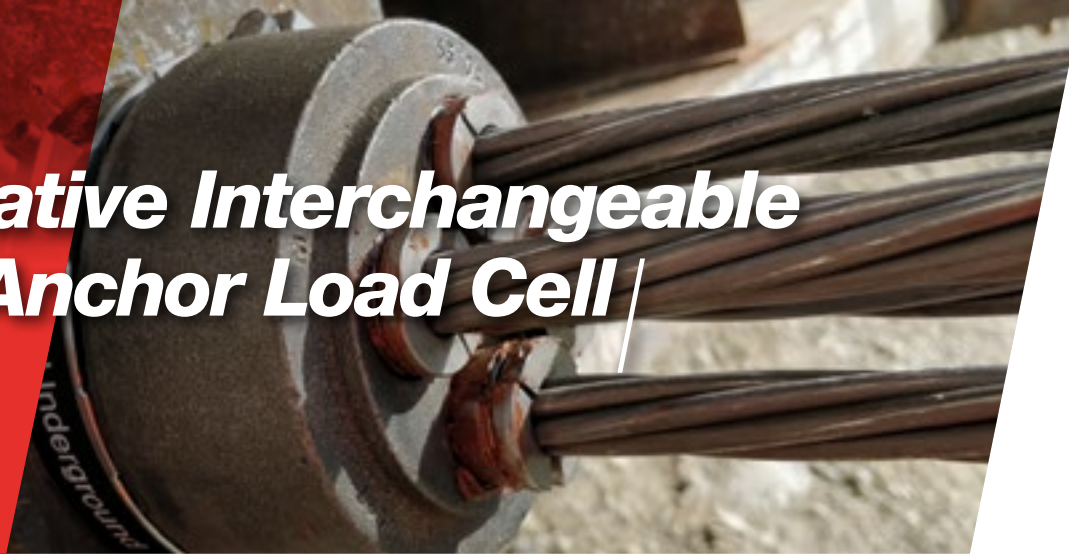


DemiCell DC

***The first interchangeable and separable
anchor load cell
For new construction works and retrofitting***



Innovative Interchangeable Anchor Load Cell



Anchored structures must be monitored throughout their working life. Devices for measuring forces in anchors must be replaceable.

DemiCell DC features a minimal overall height and significant force capacity.

Each cell is precisely adjusted to the anchor head to be monitored.

For the first time, it is possible to switch between load cells and retrofit existing anchors with load cells with minimal effort.

Main Advantages

- Robust, reliable, and accurate
- Adapted to the anchor head in diameter and height
- Two half-rings that can be radially separated
- Load introduction ring included (depending on the anchor head)
- A minimum of just 15 [mm] in height
- is required for retrofitting of existing anchors
- Anchor head must be lifted by only a few tenths of a millimeter in order for load cell to be changed



Basic Concept

The interchangeable load cell DemiCell (DC) is an electronic force sensor for monitoring of anchors and determination of pre-stressing forces, lifting forces, and other significant and minor forces. The DemiCell consists of two half-rings with pressure pieces made from high-strength stainless steel. These pressure pieces are fitted with multiple strain gauges, which are arranged in a temperature-compensating configuration. The sensor is adapted to function reliably in tough working environments.

Advantages

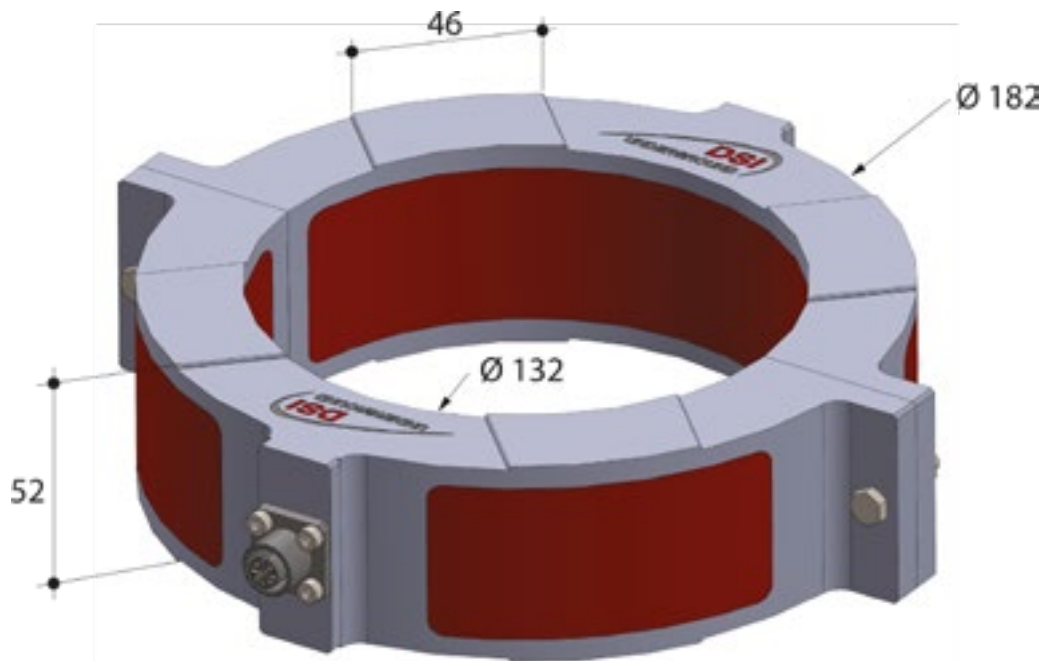
The main advantage of DemiCell over conventional cylinder load cells is its simple interchangeability. Lifting the anchor body (anchor nut) by just a few tenths of a millimeter is sufficient to allow the half-rings to be radially removed and changed. Even existing anchors may be retrofitted, so long as a gap of at least 15 [mm] can be created by additional tension or relief.

Technical Details

DemiCells can be supplied with various output signals and may optionally be purchased with all the usual convenience features of our Load Cell series, such as temperature measurement and a display featuring the serial number, anchor number, and construction site. A surge protector is also optionally available.

Technical Data DemiCell DC 3000

Description	Value/Unit
Nominal load	3,000 [kN]
Inner bearing diameter	132 [mm]
Outer bearing diameter	182 [mm]
Height	52 [mm]
Height incl. load introduction rings	112 [mm]
Resolution	+/- 1 [kN]
Total error	≤ 1% [FS]
Signal	[mV/V]; 8 [mA]; [V]
Surge protector	optional
Temperature range	-20 [°C] to 80 [°C]



DemiCell DC is accurately adjusted to the anchor head



Please note:

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