

# ▶ Ring-Torsion load cell C34N

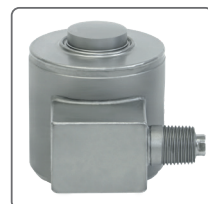


## Features

- ▶ Material: stainless steel
- ▶ Nominal load: 10,000 kg - 200,000 kg
- ▶ Accuracy class C3 up to 100 t; 200 t G3
- ▶ Construction: laser-welded, protection class: IP66
- ▶ Particularly robust for tough continuous use in industrial applications
- ▶ Verifiable according to OIML R60 up to 3000 D (models up to 100 t)

### *Scope of application:*

- ▶ Silo and tank weighing
- ▶ Container scales
- ▶ Vehicle scales
- ▶ Track scalesF
- ▶ orce measurements in the process industry
- ▶ Column force sensor after calibration in Newtons



## Ring-Torsion load cell C34N

### Compressive force sensors for industrial applications

The symmetrically designed C34N multi-column load cells are used for measuring cells are used to measure compressive forces in a wide variety of industrial applications. They are very compact and deliver extremely precise and reproducible measurement results even in long-term use in harsh industrial environments.

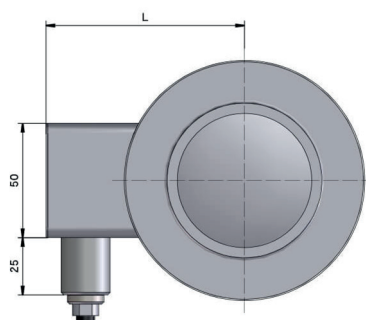
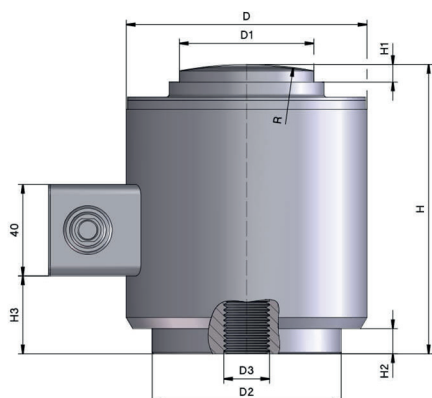
and reproducible measurement results even in long-term use in harsh industrial environments. Four square columns on which

strain gauges are force-fitted serve as the measuring element. Due to this special "four-column construction", the load cells are generally insensitive to eccentric loads. The applied load causes an elastic deformation of the columns. Thereby, the applied strain gauges provide a measuring voltage proportional to the load. The C34N compression load cell is legal for trade up to 3000D according to OIML, R60. It is made of high-quality stainless steel, laser-welded and meets the requirements of protection class IP66.

### TECHNICAL DETAILS

Accuracy class according to OIML R 60		G3, C3
Nominal load ( $E_{max}$ )	t	10.000 kg, 40.000 kg, 100.000 kg, 150.000 kg, 200.000 kg
Number of division values ( $n_{LC}$ )		3000
Nominal value ( $C_n$ ) / Characteristic tolerance	mV/V	$2,0 \pm 0,002 / \pm 0,01$ mV/V
Minimum preload ( $E_{min}$ )		0
Limit load ( $E_L$ )	% from $E_{max}$	150
Breaking load ( $E_d$ )		300
Recommended supply voltage ( $U_{ref}$ )	V	5 - 12
Maximum permissible supply voltage ( $B_U$ )		18
Zero adjustment	% v. $C_n$	$\leq 1$ %
Input resistance ( $R_{LC}$ ) at reference temperature	$\Omega$	$450 \pm 5$
Output resistance ( $R_o$ ) at reference temperature		$480 \pm 5$
Insulation resistance	M $\Omega$	$> 5\,000$
Nominal temperature range ( $B_T$ )	$^{\circ}\text{C}$	- 10 ... + 40
Protection class according to (DIN 40.050 / EN 60529)		IP66
Cable length		20 m, 10m (10t)
Material		Stainless steel

### TECHNICAL DRAWINGS



#### Elektrischer Anschluss 4-Leiter - Kabel

