

# NEXT GENERATION WEIGHING SYSTEM CALIBRATION

**Eilersen**  
Calibration Solutions

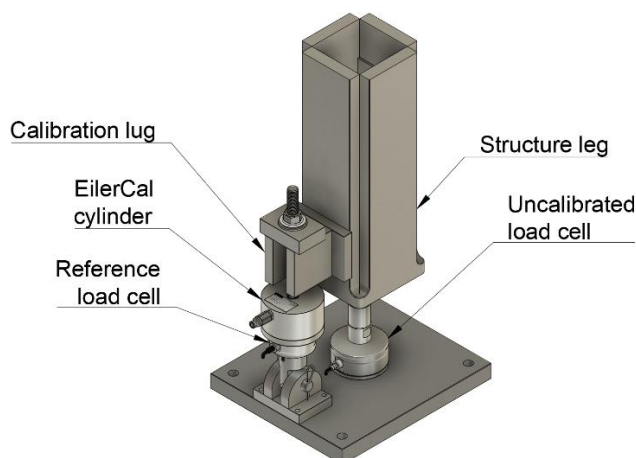
## Introducing the EilerCal

As the original creator of the hydraulic calibration solution, Eilersen is now ready with a new and improved design. The EilerCal (patents pending) is developed for easy, quick and reliable calibration of weighing systems on tanks, totes and vessels. Using the EilerCal, technicians can frequently perform quick calibrations - all without adding liquids and risking tank contamination. Use the EilerCal to calibrate weighing systems of all brands, and all load cell technologies.



## How does it work?

The EilerCal system is delivered with custom hydraulic cylinders and digital reference load cells that are attached between the tank and a fixed surface. Using a manual hydraulic pump, the technician can contract the cylinder, thereby applying force on the load cells. The force can be displayed in kilos or pounds for easy calibration.



## Why use EilerCal?

- ✓ Eliminate waste of liquids and single use equipment
- ✓ Reduce contamination risk
- ✓ Reduce production downtime
- ✓ Improve working environment
- ✓ Useable on existing tanks after modification
- ✓ Increase calibration accuracy and resolution
- ✓ Easy to use for everyone after a short introduction
- ✓ Detachable when not in use

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## Technical specifications

Cylinder diameter	mm	Ø100, Ø135, Ø165
Height	mm	280 mm + mounting brackets*
Weight	kg	Less than 10 kg per unit*
Stroke	mm	10 mm
Calibration range	kg	100 to 10.000 per cylinder*
In-use temperature range	°C	15-30**
Hydraulic oil	--	MOBIL DTE FM 32 (Asp. Tox. 1 H304)
Attachment, top	--	Metric M24 thread (Connector options available)
Attachment, bottom	--	Ø25 stainless steel pin
IP Classification	--	IP65

## Reference Load Cell

		DLC	DMC
Rated capacity ( $E_{max}$ )	kg	50, 100, 150, 250, 500, 1000, 1500, 2000, 3000, 4000, 5000	6000, 7000, 8000, 9000, 10000*
Safe overload limit	kg	300	200
Combined accuracy	% of $E_{max}$	0.025	0.05
Measuring rate	Hz	500	500
Deflection at $E_{max}$	mm	Max 0.1	Max 0.1
Power supply	Vdc	24Vdc $\pm$ 5% min. 2A	24Vdc $\pm$ 5% min. 2A
Internal resolution	Bit	24	24
IP Classification	--	IP68	IP68
Cable	--	Coaxial RG-58 (Ø6mm) with BNC connector	Coaxial RG-58 (Ø6mm) with BNC connector

## Options

ATEX (Ex)	--	ATEX approved solution for use in zone 1, 2, 21 and 22 is available
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\* Preliminary specifications

\*\* The system must be at a stable temperature within the specified range during calibration. Changes in temperature while calibrating will influence precision.

## Are you building a system compatible with EilerCal?

An EilerCal dummy model can be supplied upon request for easy dimensioning of calibrations lugs and brackets. Contact [calibration@eilersen.com](mailto:calibration@eilersen.com) for more information.