

# NEXT GENERATION TANK SCALE 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 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

Calibration range	Kg	100 to 60000
Combined accuracy	% of FS	0.1% or better
Force Indicator	--	Eilersen 5024G
Hydraulic oil	--	MOBIL DTE FM 32 (Asp. Tox. 1 H304)
In-use temperature range	°C	20-30**
Internal resolution	Bit	24
Measuring rate	Hz	500
Mounting surfaces	--	Floor plates, mezzanine floors, or concrete floors.
Power supply	--	24Vdc $\pm$ 5% min. 2A
Scale type	--	Tanks, hoppers, reactors, silos, mobile totes
Service frequency	--	Every 12 months
Support points	--	Available with 1-6 Force Units

## EilerCal Force Units

Cylinder diameter	mm	Ø100	Ø135	Ø165
Height***	mm	281	281	293
Weight***	kg (lb)	5.3 (11.7)	7.4 (16.3)	11.8 (26.0)
Max capacity per unit	kg	2000 (4409)	5000 (11023)	10000 (22046)
Load Cell Accuracy	% of FS	0.05%	0.05%	0.1%
Measuring rate	Hz	500	500	500
IP Class - Load cells	--	IP68		
Cable	--	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

\*\* Standard temperature range. Other temperature ranges can be provided on request. During calibration, the system must be at a stable temperature within the specified range. Changes in temperature while calibrating can influence accuracy.

\*\*\* As illustrated on the image on the previous page. The top mounting bracket is not included

## Are you building a system compatible with EilerCal?

EilerCal dummy models and 3D files can be supplied upon request for easy dimensioning of calibrations lugs and brackets. Contact [calibration@eilersen.com](mailto:calibration@eilersen.com) for more information.