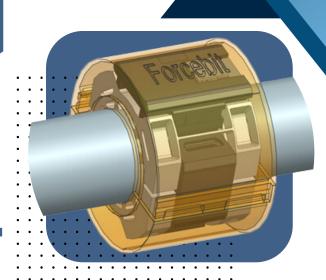
EXPECTED Q4 2025

### FORCEBIT SENSOR SOLUTIONS



## **FORCEBIT**

# Wireless, add-on sensor measuring torque, bending moments and angular speed/acceleration/displacement on rotary drives

FORCEbit is a **compact, plug-and-play sensor** designed to measure **torsional and bending loads**, as well as **angular displacement**, **velocity**, **and acceleration**. Strain gauge-based, it uses a **flexible spring** that deforms with the axis under load, ensuring **accurate measurement**. Its easy-to-install, add-on design requires no modifications to existing systems, making it ideal for retrofitting.

#### Key Benefits:

- Quick access to data: Instant measurement of torque and bending loads
- Compact & non-intrusive: Fits seamlessly into existing systems without altering drivetrain
- Robust Design: Resistant to non-torque forces and overloads, ensuring accurate measurements

#### Why FORCEbit stands out:

- **No mechanical filter**: Unlike traditional torque sensors, FORCEbit captures the full range of load data, providing more precise insights
- Easy Installation: No system modifications needed, enabling fast implementation
- **Accurate load monitoring**: Provides essential data on torsional loads, bending, and angle monitoring for performance assessment
- **Advanced calibration**: Corrects for cross-sensitivity and temperature, outperforming traditional strain gauges

FORCEbit streamlines prototyping and optimization, giving you the critical data needed to **improve equipment performance**, **efficiency**, **and durability**. Perfect for industries focused on high-performance, sustainable solutions.

#### Choose precision, simplicity, and convenience with our innovative sensor solution.

Torque range	accustomed to shaft
Temperature accuracy	0.5°C
Rotational displacement	0.25° for horizontal shafts
Sampling rate	up to 4 kHz
resolution	12-bit
synchronicity	10 micro-seconds
Signal output	.csv

Space requirements	34 mm axially, 16 mm radially
Weight	<200 g @ 32 mm diameter
Operating temperature	-40°C to 60°C
possible diameter range	25mm-125mm
Allowable variation	lmm
RPM	5000 RPM @ d=50mm
Autonomy (rechargeable)	50 hours @ 4 kHz

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