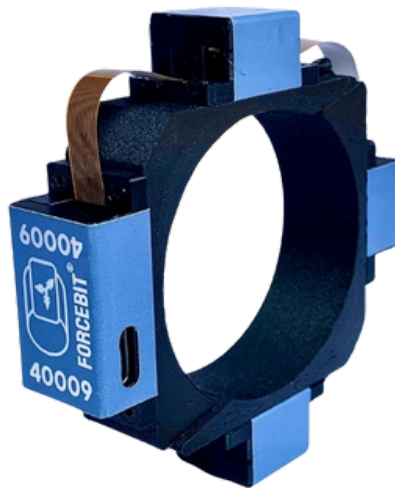


# FORCEBIT SENSOR SOLUTIONS

## ACCBIT



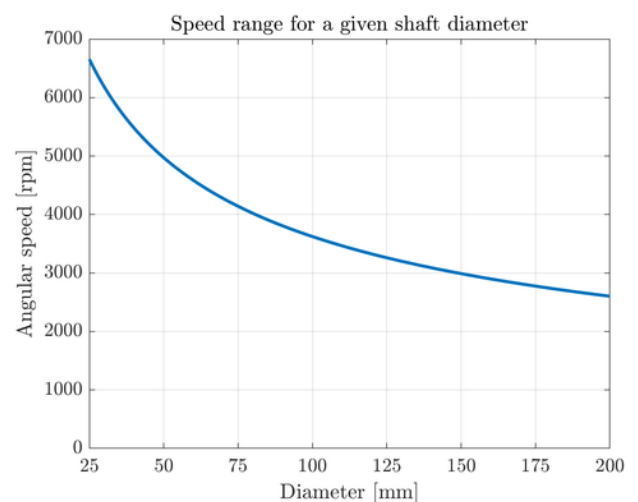
Encoder for rotary drives measuring speed,  
acceleration and angular displacement

### Why Choose the ACCbit Sensor?

The ACCbit sensor outperforms classical encoders by using **MEMS accelerometers** and virtual sensing algorithms. It provides **accurate, real-time measurements** of angular displacement, velocity, and acceleration, eliminating common errors in traditional systems.

It is ideal for **torsional vibration analysis and order tracking**, as it captures data on gravity, centrifugal acceleration, and tangential acceleration to calculate **angle, velocity, and acceleration**. It also detects slipping in belts and sudden load changes, offering valuable machine insights.

With **easy, reference-free** compatibility across **various shaft sizes**, the compact ACCbit ensures optimal performance and reliability, and prevents costly breakdowns.



Choose precision, simplicity, and convenience with our wireless encoders

Rotational displacement	0.25° for horizontal shafts
Rotational velocity	< 0.5 RPM
Rotational acceleration	< 5 rad/s <sup>2</sup>
Sampling rate	up to 8 kHz
synchronicity	10 micro-seconds
Signal output	.csv

Space requirements	18 mm axially, 16 mm radially
Weight	30 g @ 32 mm diameter
Operating temperature	-40°C to 60°C
Shaft diameter range	25 mm to 200 mm
RPM	5000 RPM @ d=50 mm
Autonomy (rechargeable)	56 hours @ 4 kHz

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