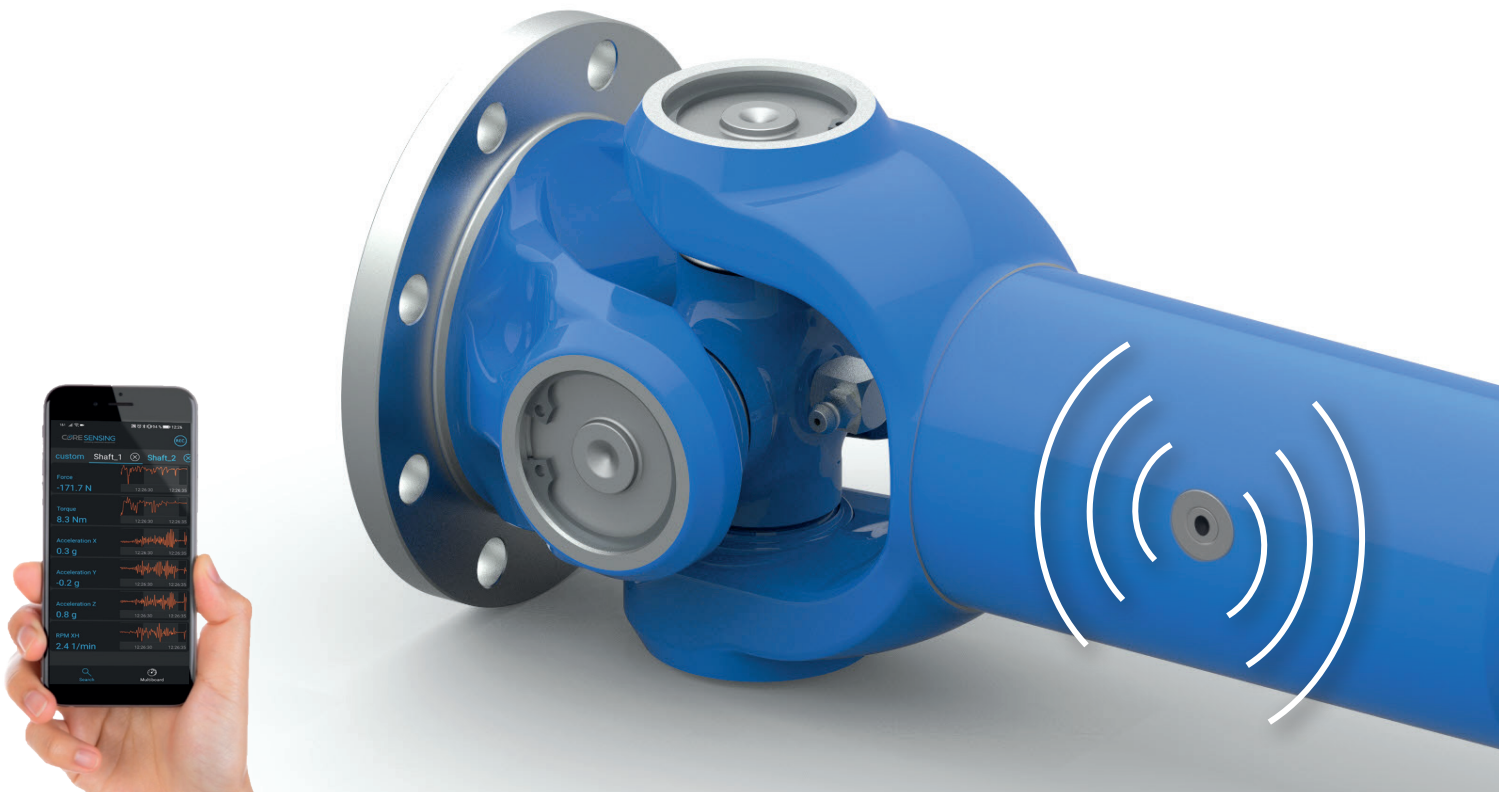


Industry 4.0 – The intelligent sensory drive shafts with **EST** provide you a variety of new possibilities in mechanical, plant and vehicle engineering.



ELBE Sensing Technology EST

Measuring data live – directly from the drive shaft without adjustment in its design

Industry 4.0 – Intelligent drive shafts with ELBE Sensing Technology EST for multiple applications

In one of our core competencies – drive shafts – many types are now available as sensory model with EST. Realized by the integration of sensors and the coordinated measuring chain of „core sensing“ we offer intelligent drive shafts of highest quality which perfectly transfer a wide variety of measurands from the shaft live and wireless..

Measurands Sensor Technology

Torque

Standard measuring range 25 Nm – 6.000 Nm*



Axial force

Standard measuring range 50 N – 125.000 N*



Shear force | bending

Shear forces up to 100 kN*



Acceleration

3 axis acceleration sensor up to 30 g



Speed of rotation

Speed sensor up to 2.500 RPM



Temperature

Integrated temperature control



Monitoring

Storage of signal sequences



Interpretation

Real-time analysis of sensor data



*Measuring ranges other than indicated on request

Application and benefit

- Process monitoring and optimization
- Predictive maintenance
- Process control through torque control
- Determination of load collectives

Key Features

- A great variety of measuring data in one sensor
- Robust sensor technology protected in the inner part of the drive shaft
- Reading out and logging of sensor data with up to 500 Hz
- Optimized for wireless use
- With integrated speed and acceleration sensor
- Different wireless energy options (battery, induction)
- Compatible with Gateway coreGATE for easy connection with control or measuring computer
- Integrated intelligence on board: by detecting and saving events plenty of applications are feasible



CORE SENSING
connecting mechanical components



Further information regarding the complete range of products for vehicles and industry applications

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