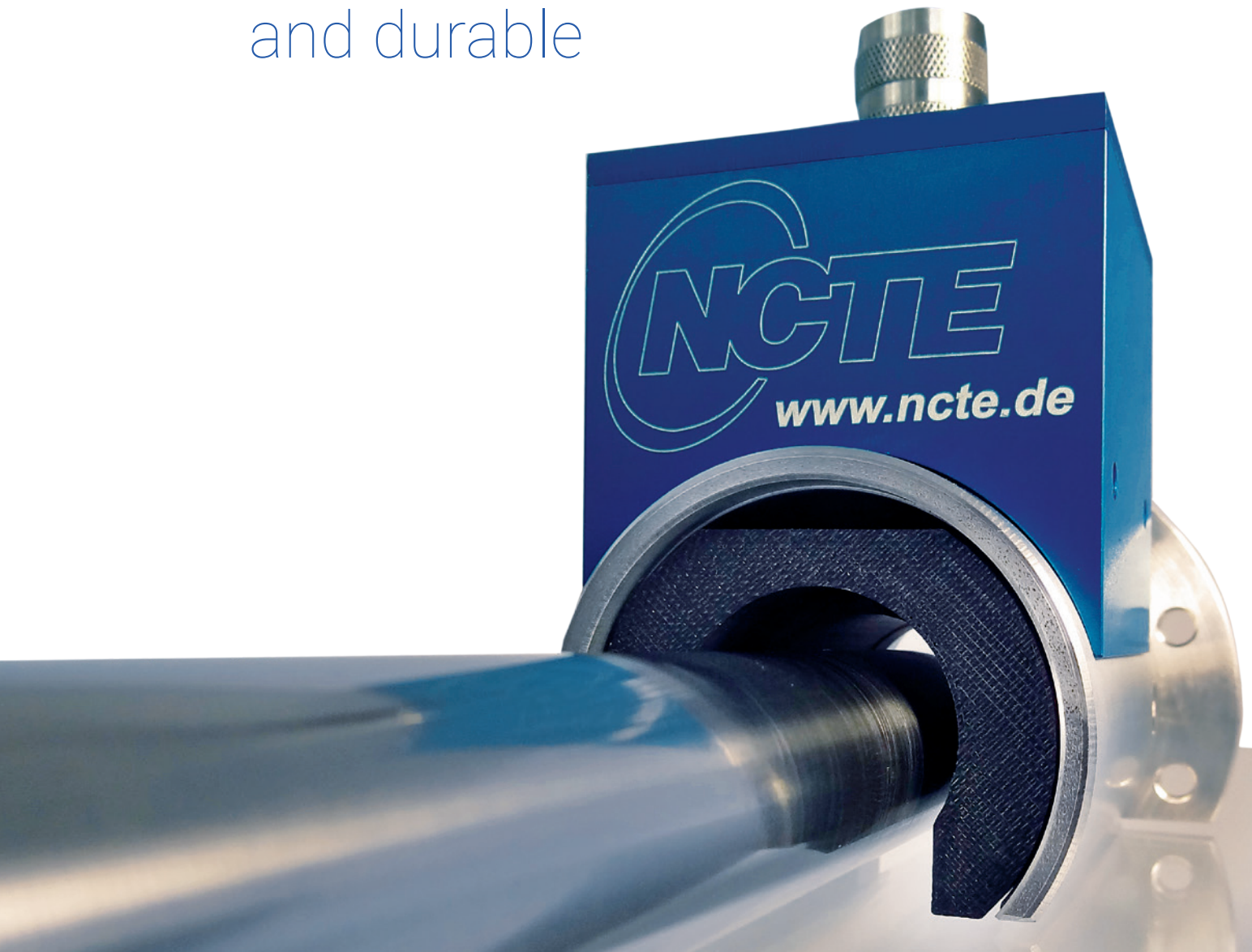




Torque measurement

Truly non-contact –
extremely robust, accurate,
and durable



Individual torque solutions with transducers for numerous applications

Your perfect mechanical solutions
for research & development, QM, test bench applications,
drive train components

Series 2000



- ▶ Measurement range from 0 – 500 Nm bidirectional
- ▶ Accuracy class 1%
- ▶ Rotational-speed range up to 5000 U/min
- ▶ Output signal: 0 ... 5 V
- ▶ Temperature range -30 °C ... +85 °C

Series 2300



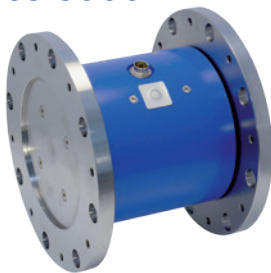
- ▶ Measurement range 2,5 – 100 Nm
- ▶ Accuracy class 0,5 %
- ▶ Rotational speed range up to 15.000 U/min
- ▶ Optional angle sensor
- ▶ Flexible output signals: 0 ... 10 V/Opt. 4 ... 20mA, CAN, USB
- ▶ IP50 or IP65

Series 3000/4000



- ▶ Measurement range 0 – 2.000 Nm bidirectional
- ▶ Accuracy class 0,2 % and 0,1%
- ▶ Rotational speed range up to 10.000U/min
- ▶ Optional angle sensor
- ▶ Flexible output signals: 0 ... 10 V, 4 ... 20 mA; others upon request
- ▶ Temperature range -30 °C ... +85 °C

Series 5000



- ▶ Measurement range 10.000 Nm optional >25.000 Nm
- ▶ Accuracy class 0,5 %
- ▶ Rotational-speed range up to 5.000 U/min
- ▶ Specific flange ends possible
- ▶ Option: integrated angle sensor
- ▶ Flexible output signals: 0 ... 10 V, 4 ... 20 mA, CAN, USB
- ▶ Temperature range -30 °C ... +85 °C

Series 6000 (MOQ 5)



- ▶ Bellow coupling with integrated torque sensor 60 Nm
- ▶ Accuracy class 0,5 %
- ▶ Rotational-speed up to 5000 U/min
- ▶ Wide range of mechanical interfaces
- ▶ Flexible output signals: 0 ... 10 V, 4 ... 20 mA, CAN, USB
- ▶ Temperature range -30 °C ... +85 °C

Series 7000



- ▶ Torque sensor for off-highway vehicles and test bench applications
- ▶ Measurement range 3000 to 8000 Nm
- ▶ Accuracy class 0,5 %
- ▶ Rotational-speed range 3600 U/min
- ▶ Variable shaft/flange ends (PTO)
- ▶ Option: integrated angle/speed sensor
- ▶ Flexible output signals: 0 ... 10 V, 4 ... 20 mA, CAN, USB
- ▶ Temperature range -30 °C ... +85 °C
- ▶ IP50 or IP65

Series 7500



- ▶ Measurement range 500 – 2000 Nm
- ▶ Accuracy class 0,5% (2000 Nm 1%)
- ▶ Temperature range -30 °C ... +85 °C
- ▶ Variable shaft/flange ends (PTO)
- ▶ Rotational speed range up to 5000 U/min
- ▶ Flexible output signals:
0 ... 10 V, 4 ... 20 mA, CAN, USB
- ▶ IP50 or IP65

Series 8000/DML



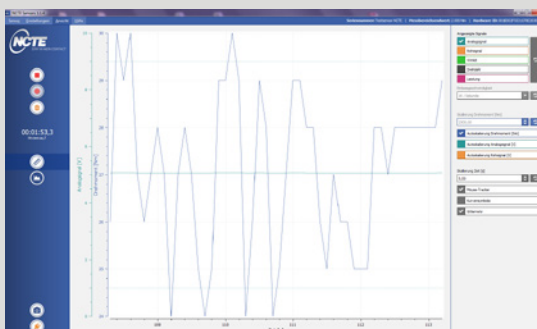
- ▶ Torque measuring bearing unit
- ▶ Measurement range 0 – 100/500/3000 Nm bidirectional
- ▶ accuracy class 0,1%
- ▶ Very high dynamic loads
- ▶ High permissible bending and shear forces
- ▶ Rotational speed range up to 10.000 U/min
- ▶ Integrated signal conditioning

Read Out Unit



- ▶ Compact display unit with data logger
- ▶ 1 torque sensor input 0 – 10V
- ▶ 1 angle sensor (A/B) or speed sensor input (A)
- ▶ 2 x digital inputs
- ▶ 2 x digital outputs
- ▶ USB connector, incl. Windows software
- ▶ SD-Card
- ▶ Temperature range +5 °C ... +50 °C

Software NCTE



- ▶ torque measurement via USB-Interface
- ▶ fast data evaluation
- ▶ user-friendly, intuitive user interface
- ▶ data recording (plot and log file)
- ▶ compatible to all NCTE USB sensors



Individual customization



- ▶ Customized shafts
- ▶ Customized shaft-ends
- ▶ Customized calibrations
- ▶ Individual signal outputs
- ▶ Individual signal bandwidth

NCTE – Your specialist for customized torque sensors and measuring load pins

NCTE Sensors for

Off highway and construction, aerospace, e-bikes, oil and gas industries, straightening and extruder machines, wind power, gear boxes, drivetrain components, automotive, motorsport, test benches

Key benefits

- ▶ Truly non-contact torque measurement
- ▶ Unmatched robustness and longevity
- ▶ High repeatability and reproducibility
- ▶ Completely maintenance-free
- ▶ Insensitive against oil, water, dirt, detergent and lubricant (IP69K)
- ▶ Resistant against high temperature
- ▶ Immune against bending, shear forces and vibrations

