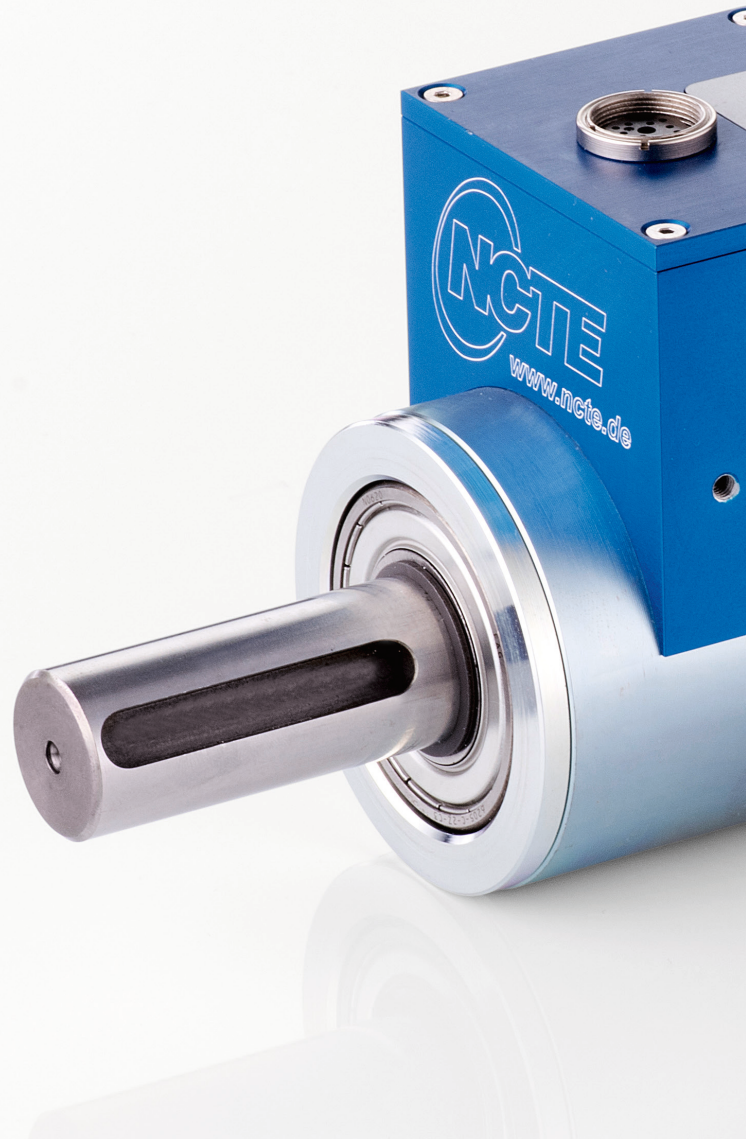


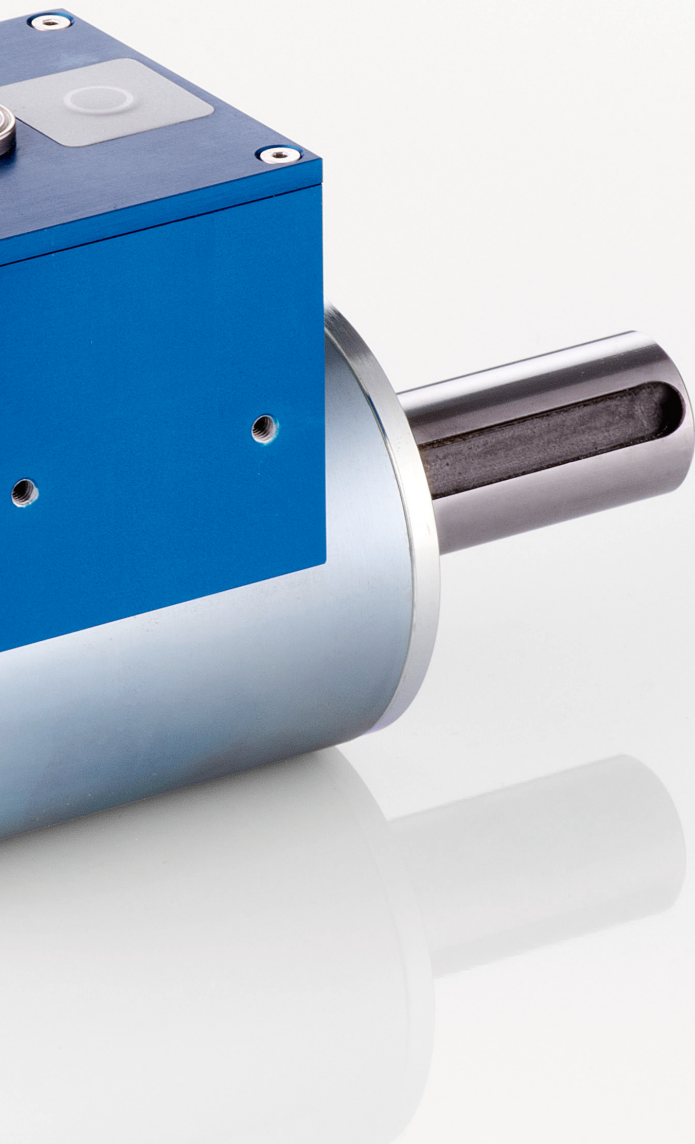
TORQUE
SENSORS

WE MAKE MACHINES AND PRODUCTS SUSTAINABLY SMARTER

We enthusiastically develop, produce and sell sensors that precisely measure torque, force, shear and bending.

Whether customised individual solutions or series products „Made in Germany“, with our sensor solutions our customers leverage new potentials of their machines and products.





As a pioneer in the field of non-contact torque measurement, we are driven by constant innovation.

Our magnetoelastic technology is robust and works under extreme environmental conditions.

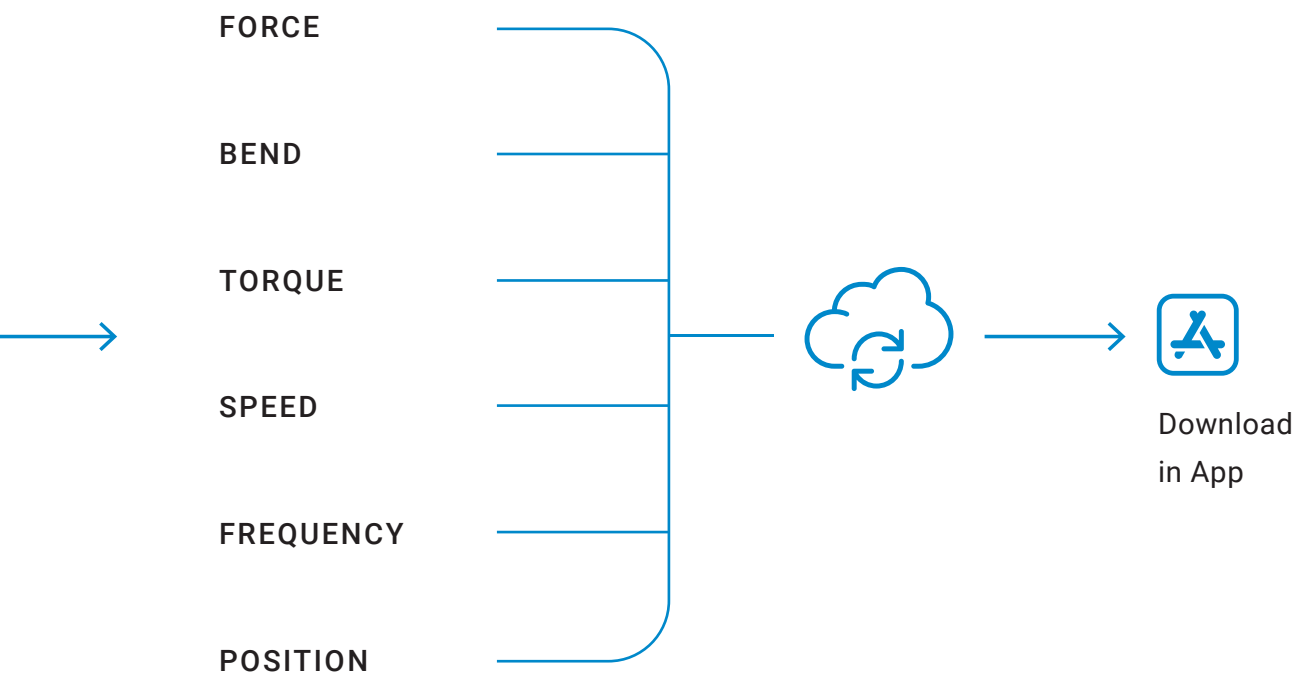
This allows us to reliably deliver data in real time where no one else can measure.

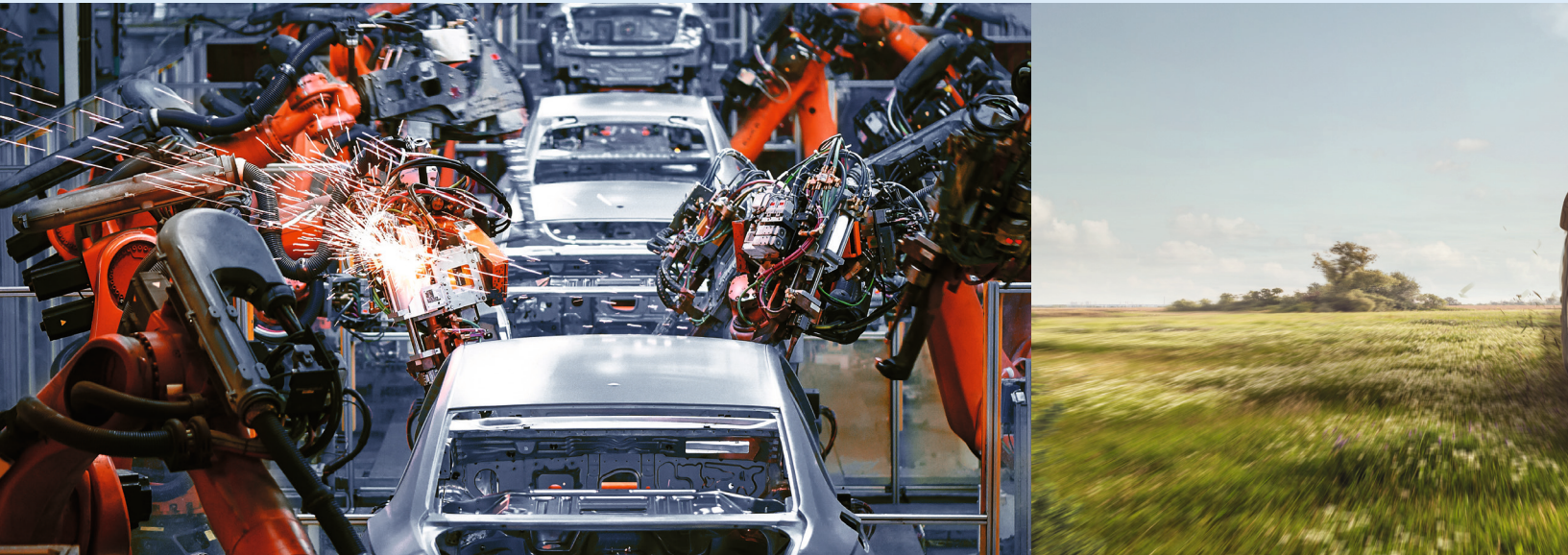


WE PROVIDE DATA WHERE NO ONE ELSE CAN MEASURE

- Force, torque, speed, frequency, force distribution (symmetry), maximum loads, absolute position measurement
- High data rate in real time







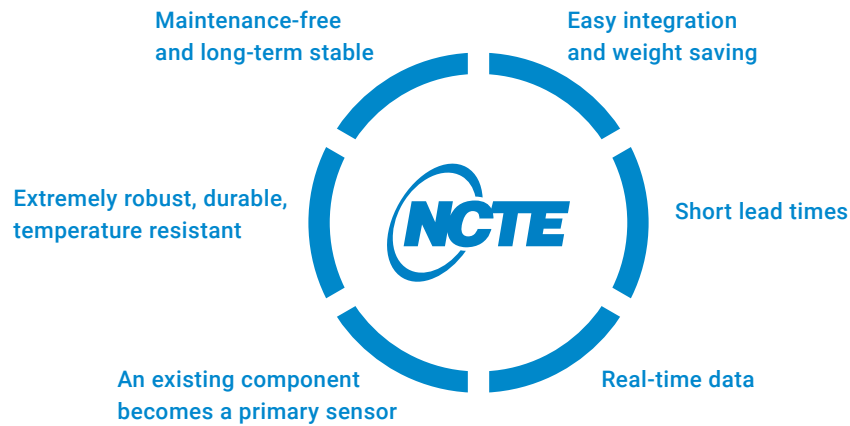
WE MAKE MACHINES INTELLIGENT (IoT)

At the beginning of the Internet of Things, there is always a sensor. Only with a sensor, a machine can detect its status and perform controlled actions. With the connection to the internet, things become “intelligent”.

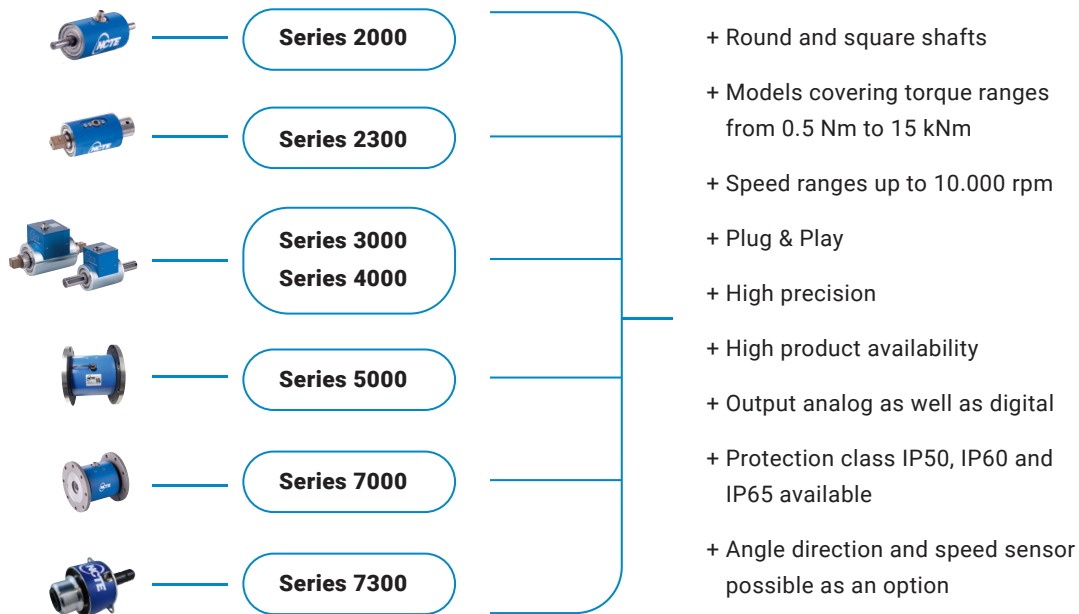
Our sensor detects the torque of machines “contactless”, reliable and in real time.







SENSORS & ACCESSORIES



INVERSE MAGNETOSTRICTION

Methodology to measure contactless

KEY HIGHLIGHTS:

- + Long time stable
- + Maintenance free
- + Contactless measurement
- + Very reliable under extreme conditions

AVAILABLE SERVICES & SUPPORT



NCTE USB Software



Couplings



NCTE
readout box



Measuring software
for readout box



Series 2000
sensor bracket



Connecting cable

Services

- + Calibration
- + Integrated Solutions
(OEM sensor integration)

Downloads

- + CAD models/ drawings
- + Instruction manual and
product data sheets
- + Calibration certificates

Support

- + Technical support
- + Technical service
- + Product training
- + Marketing materials
- + Safety data sheet

MODEL	SHAFT TYPE	PRODUCT	ACCURACY (%)	0.5	1	2.5	5	7.5	10	15	17,5	
S2100	square		$\leq \pm 1$			✓	✓	✓		✓		
S2200	round		$\leq \pm 1$			✓	✓	✓			✓	
S2300	round		$\leq \pm 0.5$	✓	✓	✓	✓		✓			
S3000	square		$\leq \pm 0.2$									
S3000	round		$\leq \pm 0.2$									
S4000	square		$\leq \pm 0.1$									
S4000	round		$\leq \pm 0.1$									
S5000	flange		$\leq \pm 0.5$									
S7000	flange		$\leq \pm 0.5$									
S7300	6 teeth		$\leq \pm 0.5$									

NOMINAL



■ Series 2000



■ Series 2300



■ Series 3000



■ Series 4000

20	50	60	75	100	140	175	250	400	500
		✓			✓			✓	
			✓			✓	✓		✓
✓	✓			✓					
	✓						✓		
	✓			✓			✓		✓
	✓						✓		
	✓			✓			✓		
TORQUE [Nm]									

1	2	3	4.5	5	10	15
✓						
✓	✓					
✓						
✓						
					✓	✓
		✓		✓		
		✓				
NOMINAL TORQUE [kNm]						













■ Series 5000



■ Series 7000



■ Series 7300

MODEL	SHAFT TYPE	PRODUCT	ACCURACY (%)	0 – 5 V	0 – 10 V	± 5 V	± 10 V	
S2100	square		≤ ± 1	✓	✓	✓	✓	
S2200	round		≤ ± 1	✓	✓	✓	✓	
S2300	round		≤ ± 0.5		✓			
S3000	square		≤ ± 0.2		✓			
S3000	round		≤ ± 0.2		✓			
S4000	square		≤ ± 0.1		✓			
S4000	round		≤ ± 0.1		✓			
S5000	flange		≤ ± 0.5		✓			
S7000	flange		≤ ± 0.5		✓			
S7300	6 teeth		≤ ± 0.5		✓			

OUTPUT



■ Series 2000



■ Series 2300



■ Series 3000

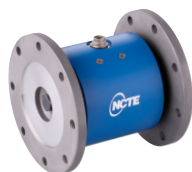


■ Series 4000

4–20 mA	CAN-Bus	USB	IP50	IP65	Angle Sensor	Speed Sensor	
			✓				≤1.000
			✓				≤5.000
✓	✓	✓	✓		✓		≤10.000
✓			✓		✓		≤10.000
✓			✓		✓		≤10.000
✓			✓		✓		≤10.000
✓			✓		✓		≤10.000
✓			✓	✓			≤2.500
✓	✓	✓	✓	✓	✓	✓	≤3.600
✓	✓	✓		✓		✓	≤1.200
			PROTECTION CLASS		OPTIONAL		SPEED [rpm]



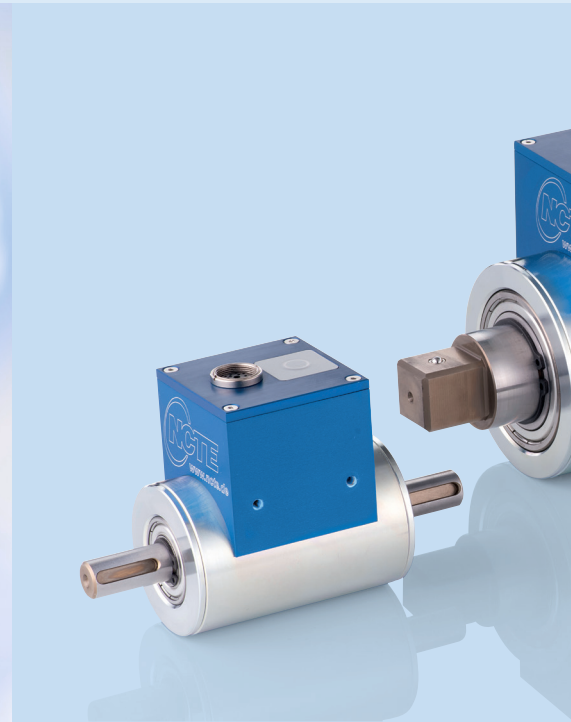
■ Series 5000



■ Series 7000

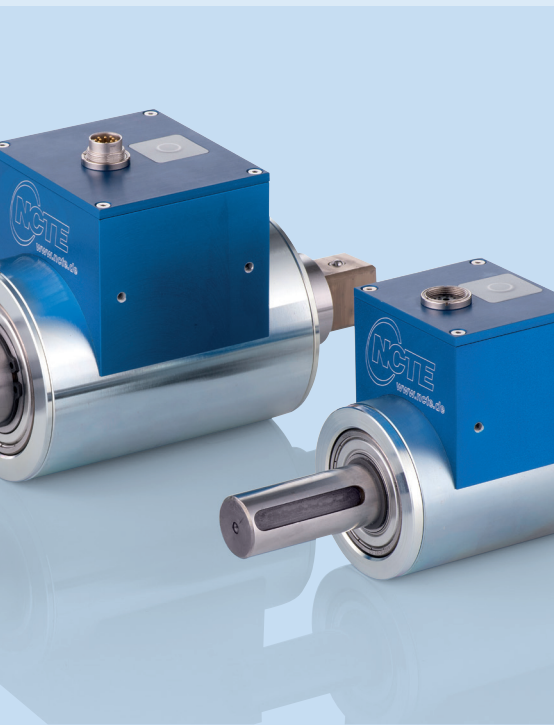


■ Series 7300



NON-CONTACT TORQUE EXPERTS

NCTE has been developing non-contact measurement technology since 2002 and has grown from a start-up to a technology company with series production for well-known customers. Our sensors are used in a large number of smart products – from e-bikes to motorsports and agriculture to industrial applications and engine tests.



The product portfolio offers a wide range of series models, but also tailor-made products for customer-specific solution. With around 40 employees the company produces at the Oberhaching site near Munich cutting-edge technology Made in Germany and delivers it all over the world.

TORQUE SENSORS

INNOVATIVE
TECHNOLOGY –
INVERSE
MAGNETOSTRICTION



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