

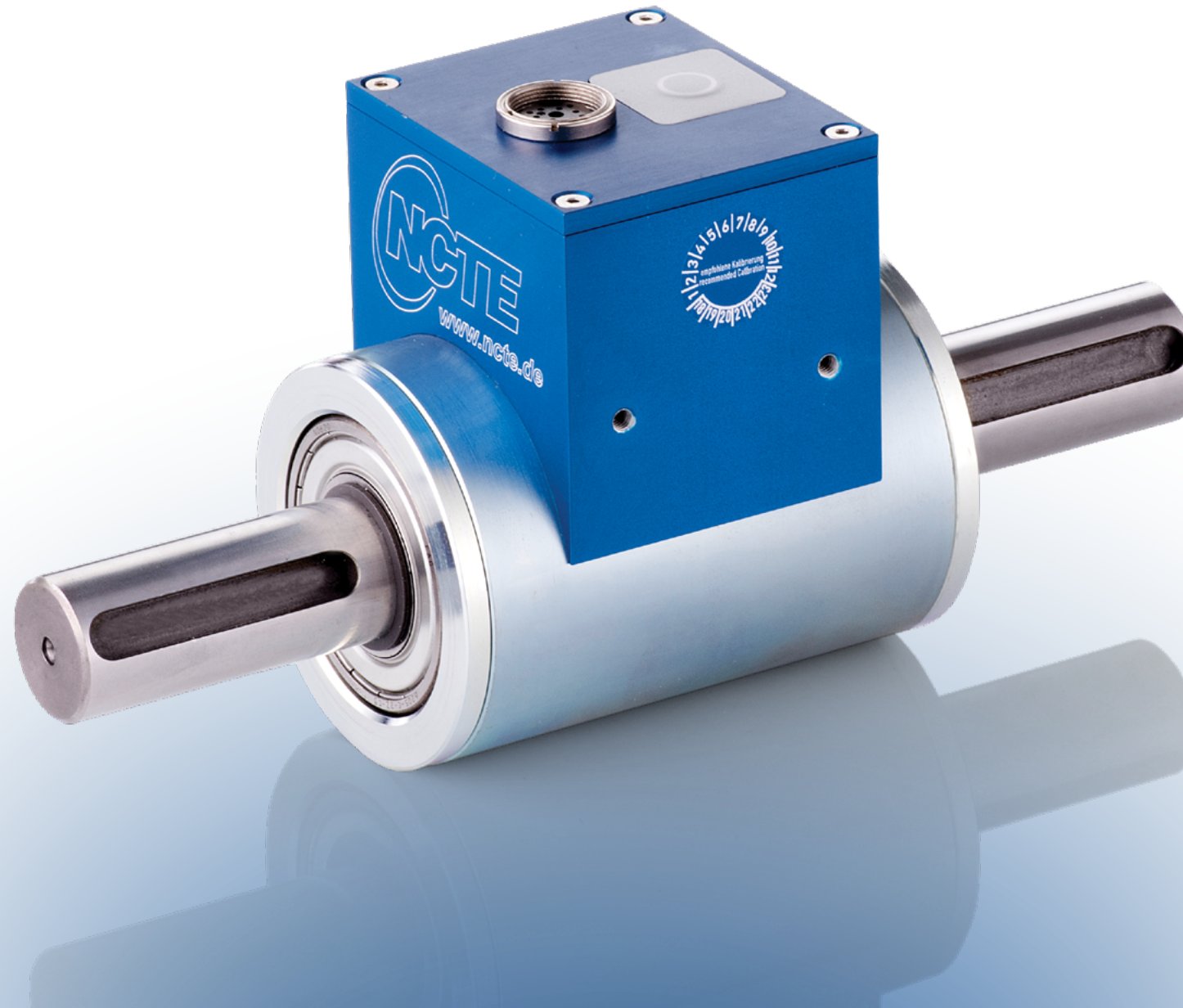


**TORQUE
SENSORS**

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 DELIVER DATA!

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



FORCE

BEND

TORQUE

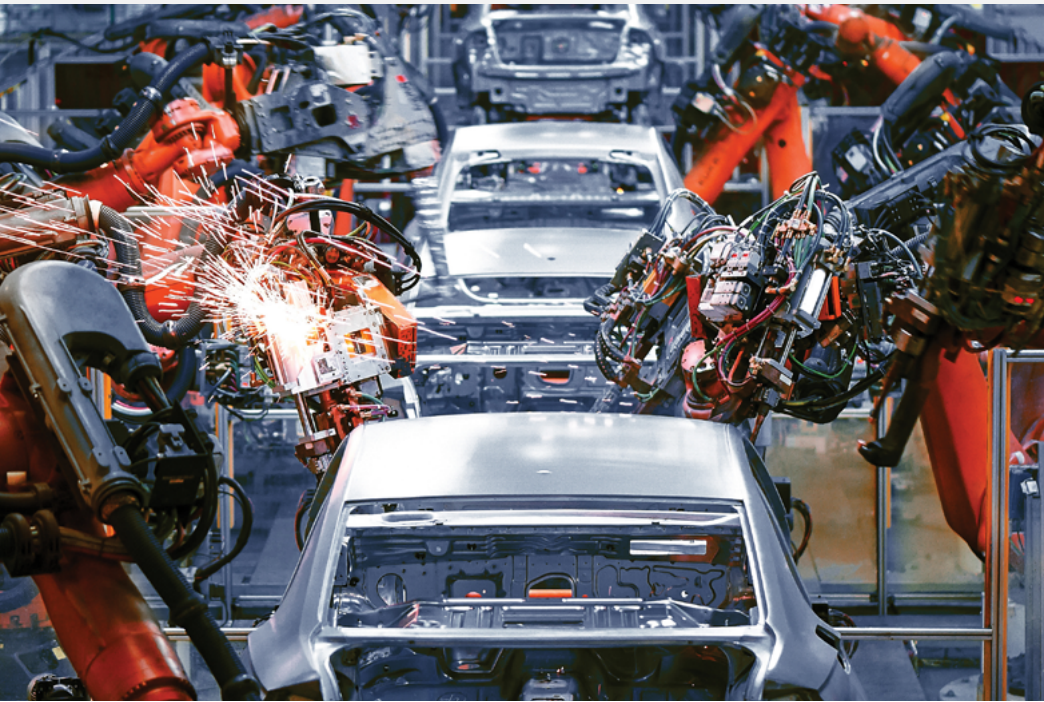
SPEED

FREQUENCY

POSITION



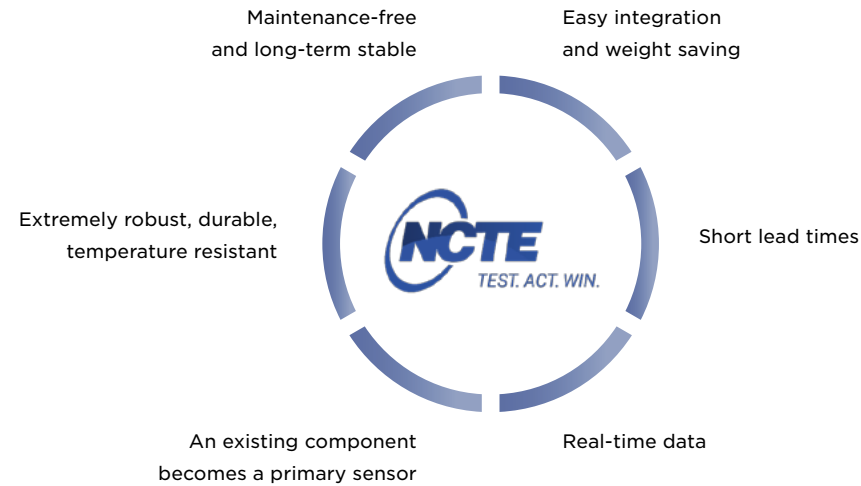
Download
in App









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 and this “contactless”, reliable and in real time.





SENSORS & ACCESSORIES

- 
Series 2000
 - + Sensors & Accessories
 - + Round and square shafts
- 
Series 2300
 - + Models covering torque ranges from 0.5Nm to 15kNm
- 
Series 3000
Series 4000
 - + Speed ranges up to 10.000 rpm
 - + Plug & Play
- 
Series 5000
 - + High precision
 - + High product availability
- 
Series 7000
 - + Output analog as well as digital
 - + Protection class IP50, IP60 and IP65 available
- 
Series 7300
 - + Angle and speed sensor possible

INVERSE MAGNETOSTRICTION

Methodology to measure contactless

Key Highlights:

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

AVAILABLE SERVICES & SUPPORT

Services

- Calibration
- Integrated Solutions (OEM sensor integration)

Social Media








- LinkedIn, Xing, Twitter, Facebook, Instagram
- Website, Blog











Support

- Technical support
- Technical service
- Product training
- Marketing materials

Downloads

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

- 
NCTE USB Software
- 
Couplings for Series 2000, Series 3000, Series 4000
- 
NCTE readout box
- 
Measuring software for readout box
- 
Series 2000 sensor bracket
- 
5 meter connection cable
- 
USB connecting cable

| MODEL | SHAFT TYPE | PRODUCT | ACCURACY (%) | Nominal Torque [Nm] | | | | | | | | | | | | | | | | | | | Nominal Torque [kNm] | | | | | | |
|-------|------------|---|--------------|---------------------|---|-----|---|-----|----|----|------|----|----|----|----|-----|-----|-----|-----|-----|-----|---|----------------------|---|-----|---|----|----|--|
| | | | | 0.5 | 1 | 2.5 | 5 | 7.5 | 10 | 15 | 17.5 | 20 | 50 | 60 | 75 | 100 | 140 | 175 | 250 | 400 | 500 | 1 | 2 | 3 | 4.5 | 5 | 10 | 15 | |
| S2100 | □ |  | ≤±1 | | | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ | | | ✓ | | | ✓ | | | | | | | | |
| S2200 | ○ |  | ≤±1 | | | ✓ | ✓ | ✓ | | | ✓ | | | | ✓ | | | ✓ | ✓ | | | | | | | | | | |
| S2300 | ○ |  | ≤±0.5 | ✓ | ✓ | ✓ | ✓ | | ✓ | | | ✓ | ✓ | | | ✓ | | | | | | | | | | | | | |
| S3000 | □ |  | ≤±0.2 | | | | | | | | | | | | | | | | | | ✓ | | | | ✓ | | | | |
| S3000 | ○ |  | ≤±0.2 | | | | | | | | | | | ✓ | | | ✓ | | | | ✓ | | | | ✓ | | | | |
| S4000 | □ |  | ≤±0.1 | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | |
| S4000 | ○ |  | ≤±0.1 | | | | | | | | | | | ✓ | | | ✓ | | | | | | | | ✓ | | | | |
| S5000 | ○ |  | ≤±0.5 | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | |
| S7000 | ○ |  | ≤±0.5 | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | |
| S7300 | ○ |  | ≤±0.2 | | | | | | | | | | | | | | | | | | | | | | ✓ | | | | |



Series 2000



Series 2300



Series 3000



Series 4000













Series 5000



Series 7000



Series 7300

| MODEL | SHAFT TYPE | PRODUCT | ACCURACY (%) | Output | | | | | | | Protection Class | | Optional | | Speed [rpm] | |
|-------|------------|---|--------------|--------|--------|------|-------|---------|---------|-----|------------------|------|--------------|--------------|-------------|----------|
| | | | | 0-5 V | 0-10 V | ±5 V | ±10 V | 4-20 mA | CAN-Bus | USB | IP50 | IP65 | Angle Sensor | Speed Sensor | | |
| S2100 | □ |  | ≤±1 | ✓ | | | | | | | | ✓ | | | | ≤1.000 |
| S2200 | ○ |  | ≤±1 | ✓ | | ✓ | ✓ | | | | | ✓ | | | | ≤5.000 |
| S2300 | ○ |  | ≤±0.5 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | | ≤10.000 |
| S3000 | □ |  | ≤±0.2 | | ✓ | | | ✓ | | | | ✓ | | ✓ | | ≤ 10.000 |
| S3000 | ○ |  | ≤±0.2 | | ✓ | | | ✓ | | | | ✓ | | ✓ | | ≤10.000 |
| S4000 | □ |  | ≤±0.1 | | ✓ | | | ✓ | | | | ✓ | | ✓ | | ≤10.000 |
| S4000 | ○ |  | ≤±0.1 | | ✓ | | | ✓ | | | | ✓ | | ✓ | | ≤10.000 |
| S5000 | ○ |  | ≤±0.5 | | ✓ | | | ✓ | | | | ✓ | ✓ | | | ≤2.500 |
| S7000 | ○ |  | ≤±0.5 | | ✓ | | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ≤3.600 |
| S7300 | ○ |  | ≤±0.2 | | ✓ | | | ✓ | ✓ | ✓ | | ✓ | ✓ | | | ≤1.000 |



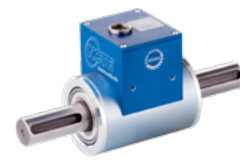
Series 2000



Series 2300



Series 3000



Series 4000



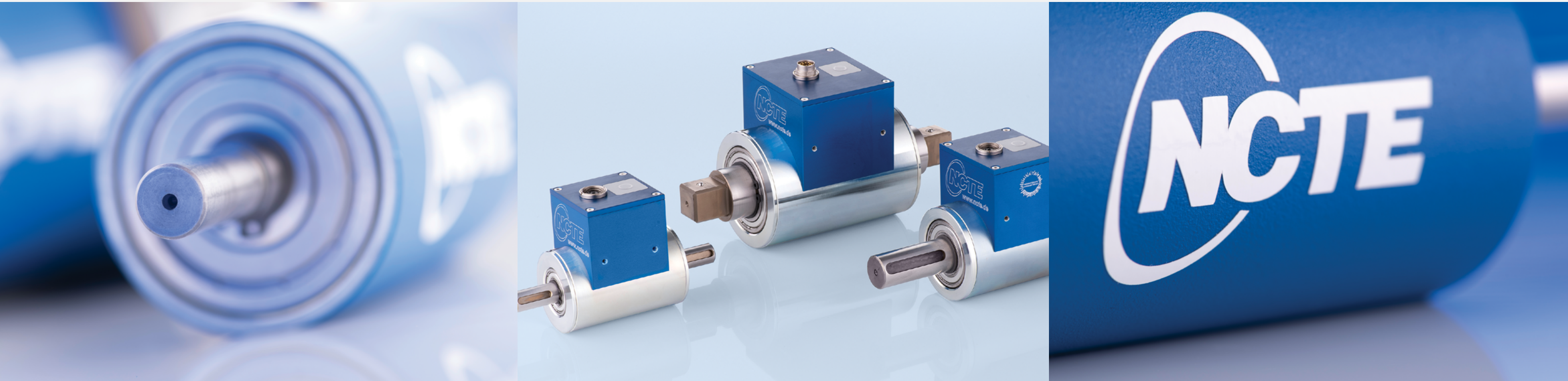
Series 5000



Series 7000



Series 7300



ABOUT NCTE

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 them all over the world.

[ncte.de](https://www.ncte.de)



PLEASE CONTACT

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The Guemisa logo features a red banner with the white lowercase letters 'gm' on the left, and the word 'GUEMISA' in a bold, red, sans-serif font on the right. Below the logo, there is a QR code on the left and contact information on the right. The contact information includes the company's N.I.F. number and its address and phone numbers.

N.I.F.: B-87969416

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