



The dedicated sensory system for engineering machinery



SENSORS FOR MOBILE MACHINERY | 2026

Magnetostrictive Sensor - Pressure/Temperature Transmitter - Rotary Encoder - Draw Wire Sensor

About US

12000m²
Production

260
Staff

>30%
Proportion of R&D staff

40+
Export country

Trusted by **1,000+** leading companies



Founded in 2014, TBF Electronic Technology specializes in magnetostrictive linear displacement sensors, delivering reliable, certified solutions worldwide.

Nationally high-tech enterprise

Five sensing platforms, led by ultra-high-resolution magnetostrictive sensors (down to 0.1µm) designed for stable performance in demanding environments.

High-reliability product solutions

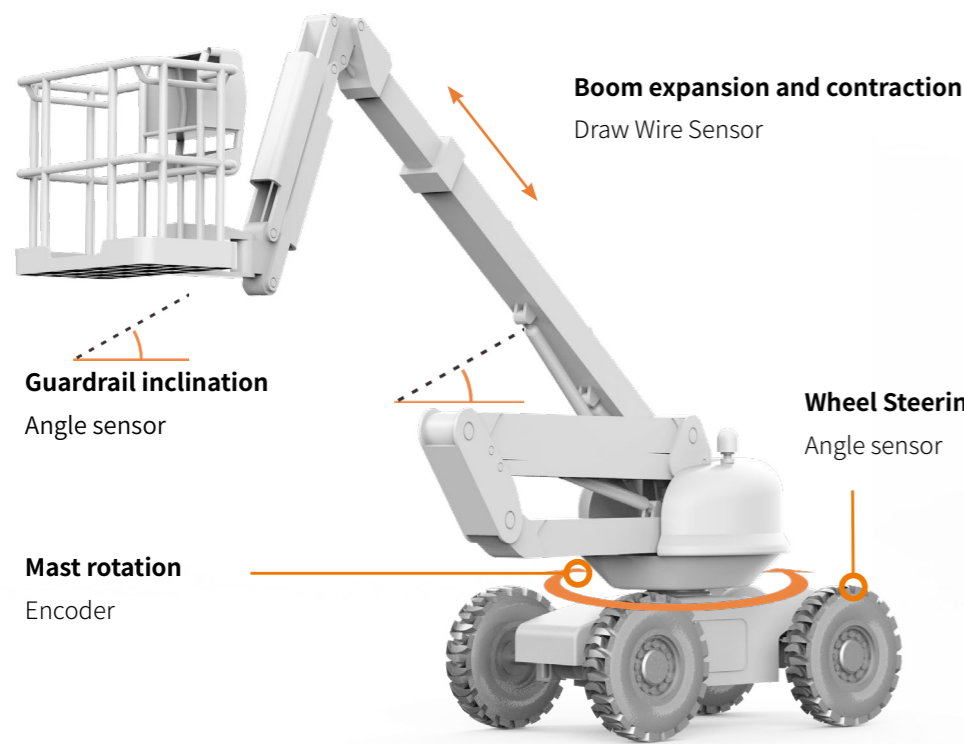
With a European subsidiary in Munich, TBF supplies customers across Europe, North America, the Middle East, and Southeast Asia, serving a global customer base that includes leading multinational industrial groups.

A global market presence

Industrial application -Construction machinery

With the characteristics of high precision, high reliability and fast response, accurate operation control is realized. By accurately monitoring the information such as equipment position, attitude and pressure, the construction efficiency, safety and equipment life are greatly improved.

TBF products have high environmental adaptability, and can run stably under the working conditions of high temperature, high humidity, dust, high impact and strong vibration.



The attitude detection of pump arm
Angle sensor (arm 1-7)

Supporting leg
Draw Wire Sensor

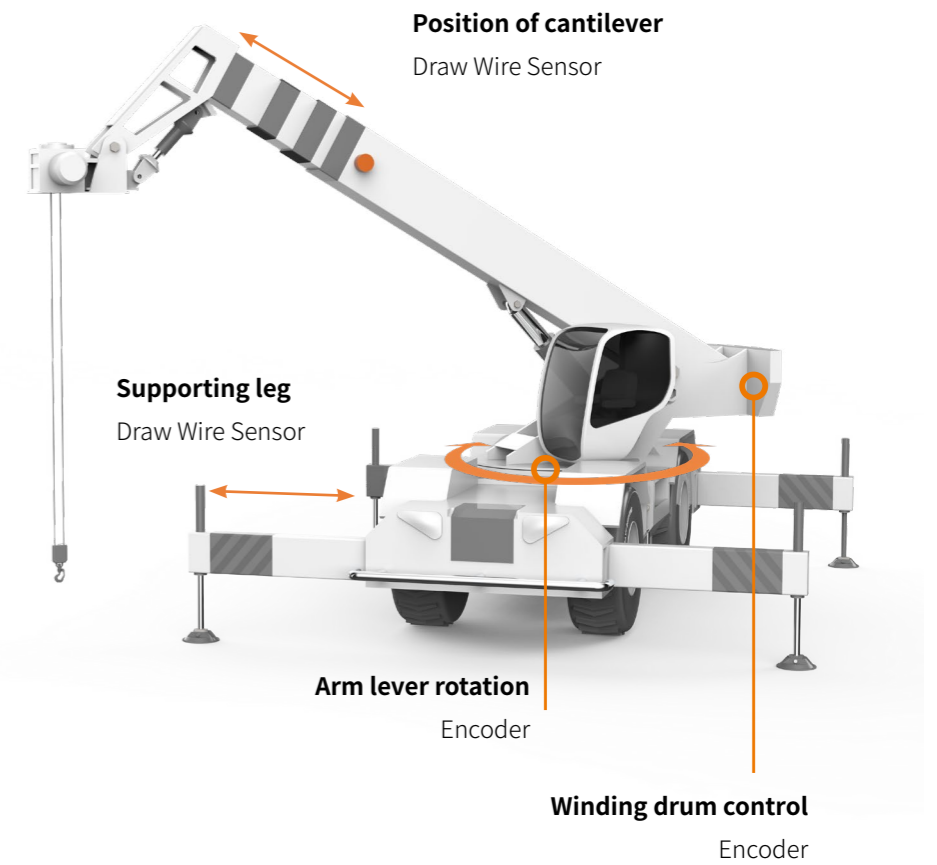
Mast rotation
Encoder

Pumping system
Magnetostrictive displacement sensor

Monitoring of concrete grouting pressure
Pressure transmitter for grouting/mud water
pressure transmitter

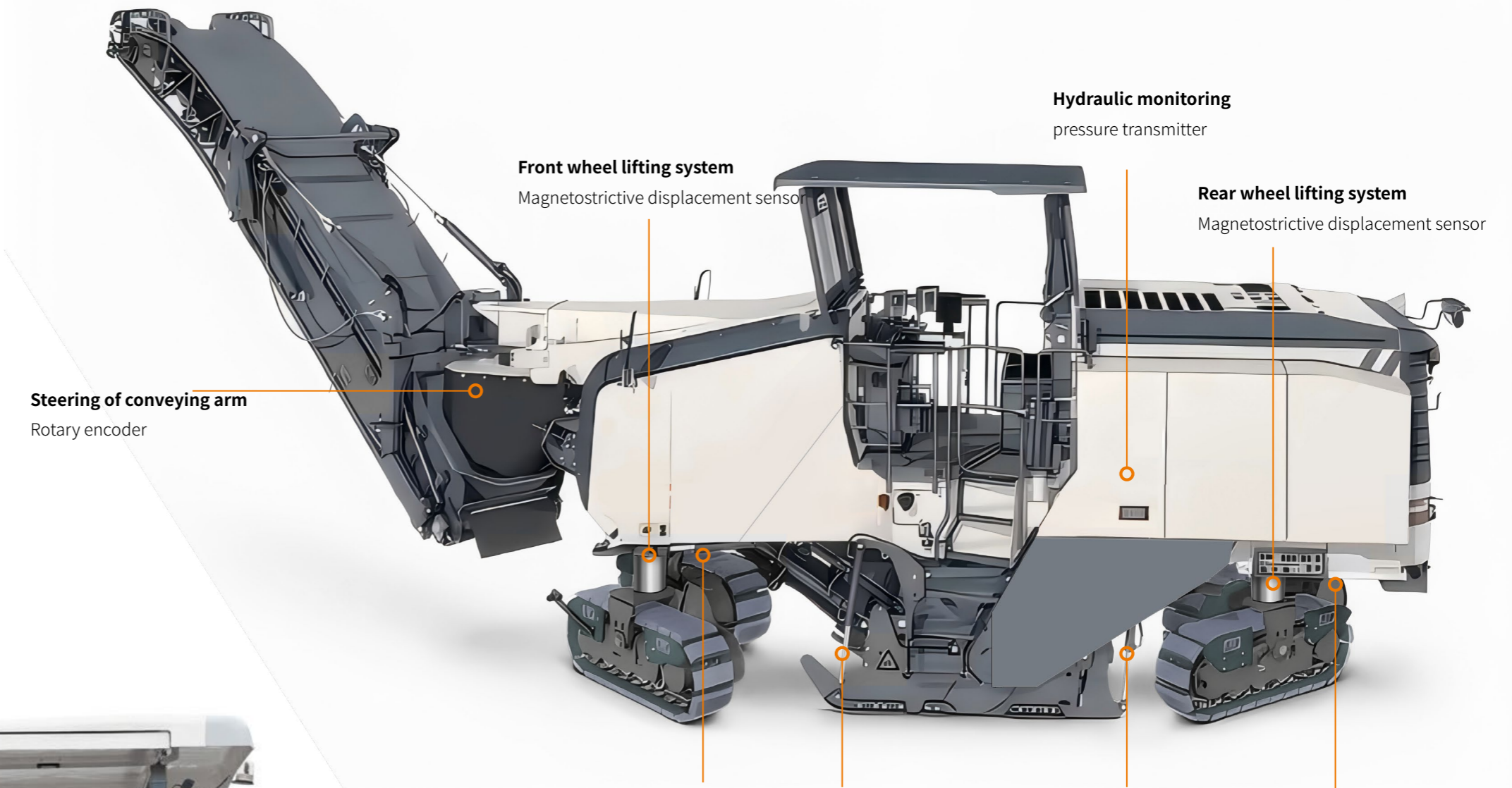
Supporting leg
Magnetostrictive displacement sensor

Hydraulic monitoring
pressure transmitter



Industrial application -Road machinery

The application of sensor in road machinery (such as grader, paver, milling machine, asphalt mixing equipment, etc.) is one of the core technologies of modern intelligent construction and unmanned operation. Pass through reality Monitoring the status of the equipment in real time significantly improves the construction efficiency, safety and accuracy.



Steering of conveying arm
Rotary encoder

Front wheel lifting system
Magnetostrictive displacement sensor

Hydraulic monitoring
pressure transmitter

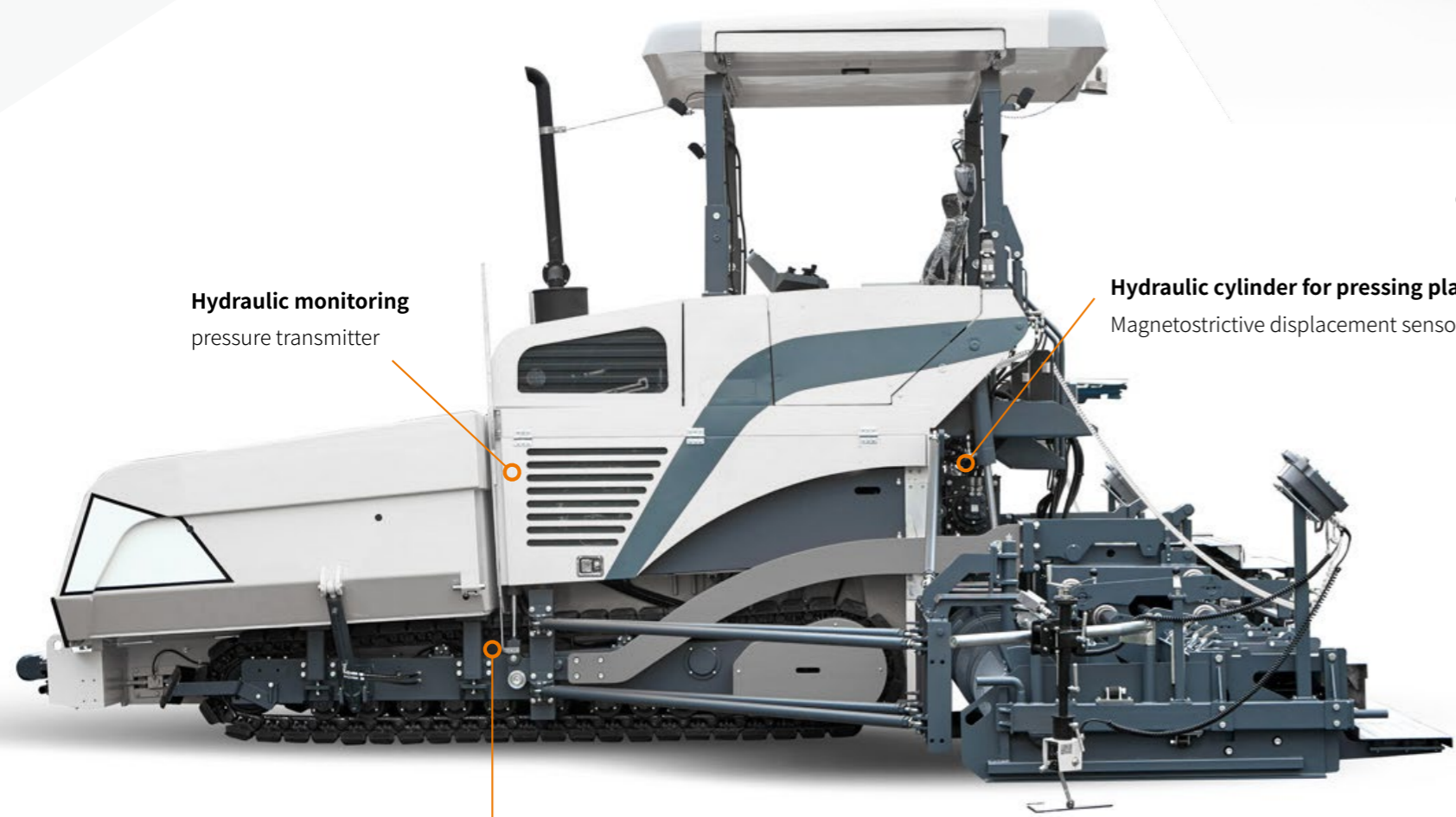
Rear wheel lifting system
Magnetostrictive displacement sensor

Front steering system
Magnetostrictive displacement sensor

Front baffle hydraulic cylinder
Magnetostrictive displacement sensor

Rear baffle hydraulic cylinder
Magnetostrictive displacement sensor

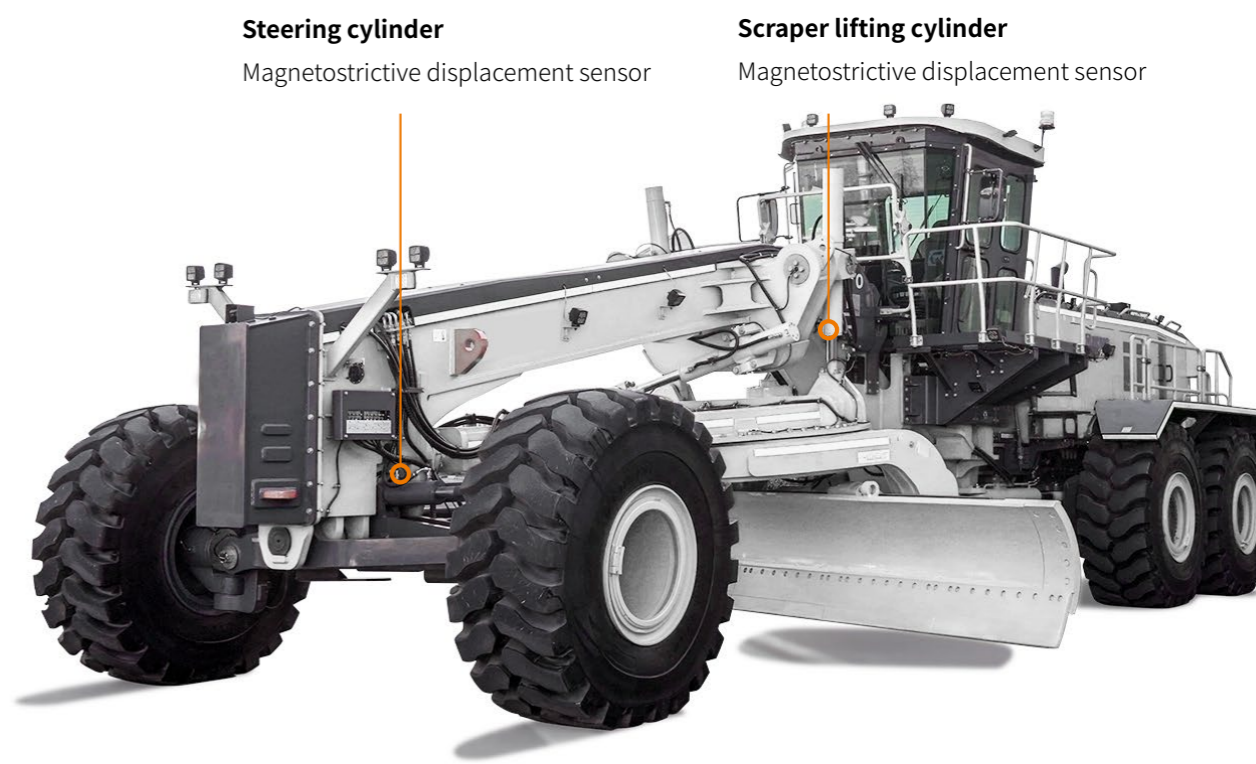
Rear steering system
Magnetostrictive displacement sensor



Hydraulic monitoring
pressure transmitter

Hydraulic cylinder for pressing plate
Magnetostrictive displacement sensor

Elevation adjustment of pressing plate
Magnetostrictive displacement sensor



Steering cylinder
Magnetostrictive displacement sensor

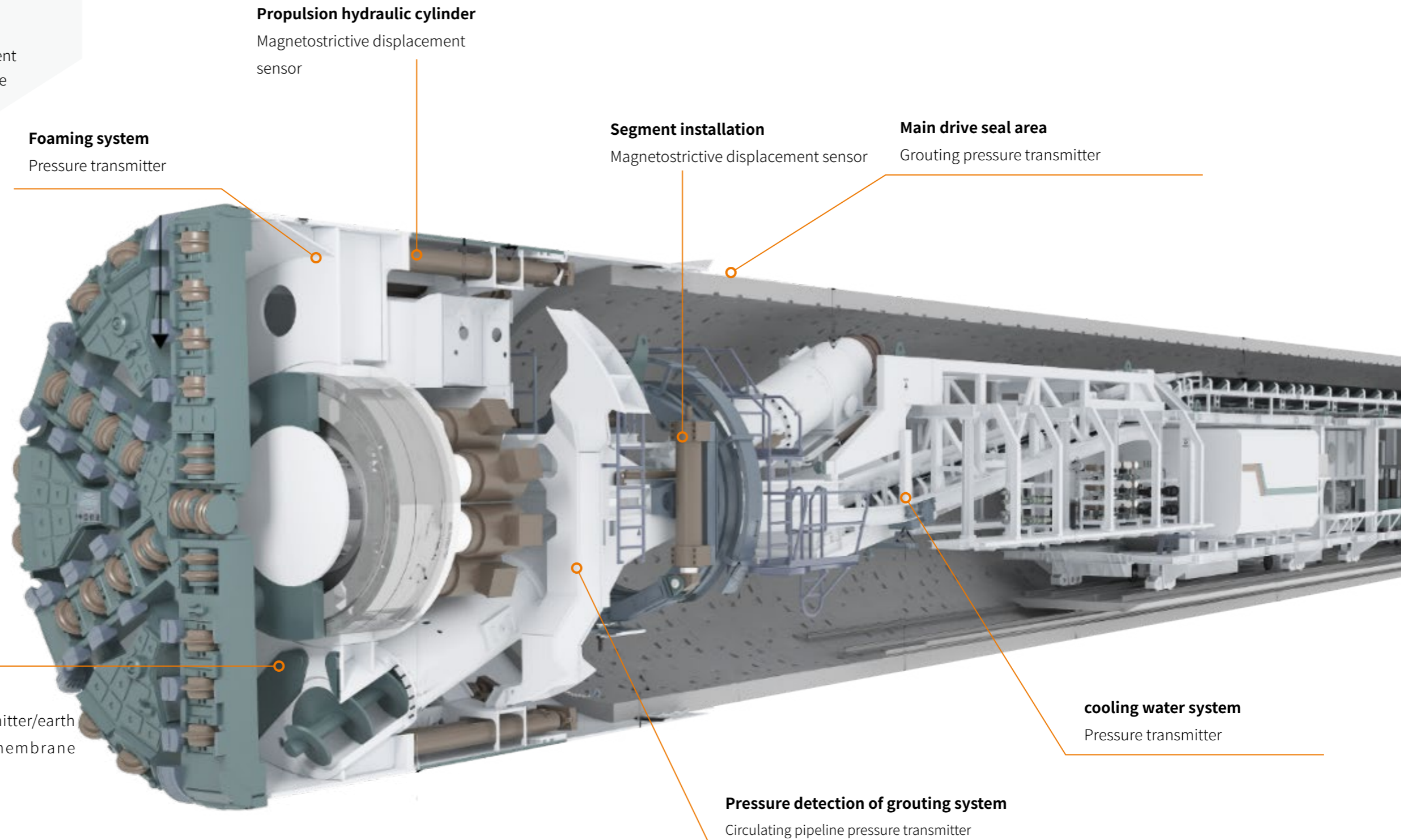
Scraper lifting cylinder
Magnetostrictive displacement sensor

Industrial application —tunnel boring machine (TBM)

Construction safety: By monitoring the parameters of earth pressure and mud, safety problems such as ground subsidence can be avoided.

Optimize the construction process: provide data support for operators, optimize the working parameters of shield machine and improve the construction efficiency.

Fault diagnosis: it is helpful to find the equipment fault early and ensure the normal operation of the equipment.



Foaming system
Pressure transmitter

Propulsion hydraulic cylinder
Magnetostrictive displacement sensor

Segment installation
Magnetostrictive displacement sensor

Main drive seal area
Grouting pressure transmitter

Earth silo pressure detection
Recommended model: mud transmitter/earth pressure transmitter/Ceramic membrane piezometer

Pressure detection of grouting system
Circulating pipeline pressure transmitter

cooling water system
Pressure transmitter

T-Series

Magnetostrictive displacement sensor

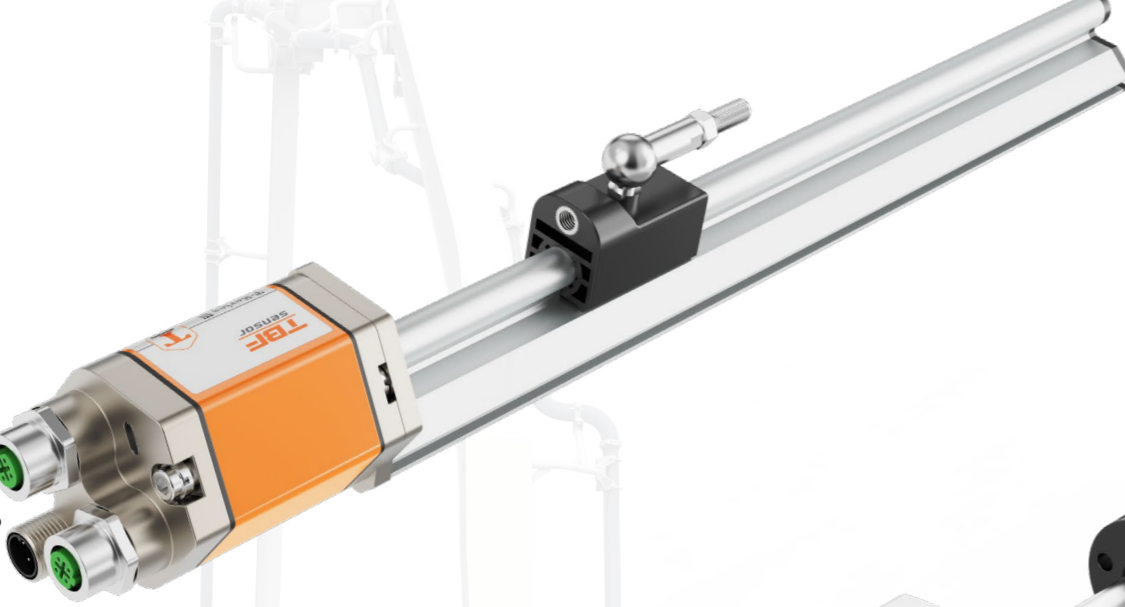
T-Series III is an upgraded product based on the second generation products. It has been innovated while maintaining our consistent high quality, and the new generation products are more reliable and stable, with strong performance.

- + High precision: highest resolution 0.1μm
- + Double anti-interference
- + Resistance to shock and vibration
- + Support 30 magnets online at the same time
- + Polarity protection, overvoltage protection
- + Enhanced monitoring and diagnosis functions
- + Wide operating voltage (9VDC~36VDC)

| Type | T3H | T3P | T3D | T3F |
|--------------------------------|---|----------------|---|---------------|
| Output | Position, speed | | | |
| Measuring Range | 25-7650 | 25-5600 | 25-5600 | 100-20000 |
| Interface type | Analog Start-Stop | SSI CANopen | EtherCAT [®] PROFINET [®] IO-Link | IO-Link |
| precision | Interface | Resolution | Nonlinear degree | Repeatability |
| | Analog | 16 bit D/A | 0.01%F.S. | 0.001%F.S. |
| | SSI | 0.1μm | 0.01%F.S. | 0.001%F.S. |
| | Start/Stop | ** | 0.02%F.S. | 0.001%F.S. |
| | CANopen | 1μm | 0.01%F.S. | 0.001%F.S. |
| | Profibus-DP | 1μm | 0.01%F.S. | 0.001%F.S. |
| | Profinet | 0.5μm | 0.01%F.S. | 0.001%F.S. |
| | IO-Link | 5μm | 0.01%F.S. | 0.001%F.S. |
| EtherCAT | 0.5μm | 0.01%F.S. | 0.001%F.S. | |
| EtherNet/IP | 1μm | 0.01%F.S. | 0.001%F.S. | |
| T3F Nonlinear degree 0.02%F.S. | | | | |
| Operating voltage | 9VDC~36VDC *SSI: 24VDC(-15/+20%) | | | |
| Shock | T3H/T3P: 150 g/11 ms T3D : 100 g/11 ms T3F : 100 g/6 ms, IEC standard 60068-2-27 | | | |
| Vibration resistance | T3H/T3P: 30 g/10~2000 Hz T3D : 10 g/10~2000 Hz T3F : 5 g/10~2000 Hz IEC standard 60068-2-6 (excluding resonance frequency) | | | |

** Depending on the controller

For more information: www.tbfsensor.com



T3P External guide rail type

Aluminum profile shell, easy to install on the machine surface or outside.



T3H Pressure-resistant outer tube type

Threaded installation, suitable for use in hydraulic cylinder or cylinder.



T3D Split type

A variety of rod types, suitable for U-shaped and other limited hydraulic cylinders.



T3F Flexible outer tube type

Flexible outer tube type, the maximum range is 20 meters, which is convenient for transportation and installation.

Integral pressure-resistant outer tube type

Magnetostrictive displacement sensor

The compact or flat electronic component shell is convenient for the sensor to be installed in a limited space;

The integrated design makes the equipment have higher durability and higher protection level(Max IP68/IP69K);

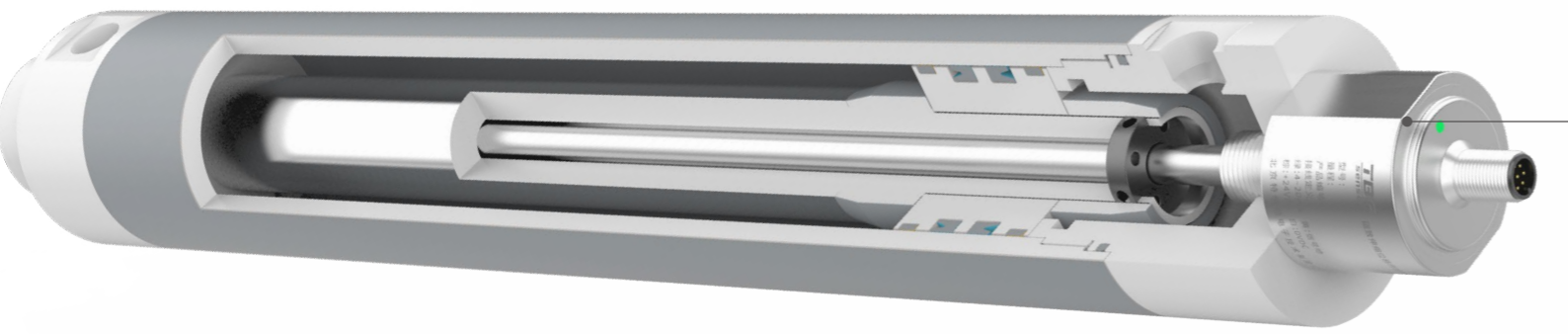
The whole machine is made of 304/316L stainless steel, which has excellent corrosion resistance and is suitable for various harsh working environments.



GB
Horizontal organization design, flange installation

CH
All stainless steel shell, high reliability is widely used in metallurgical industry.

DH
Miniaturization design Integral pressure-resistant outer



GA
IO-Link interface sensor with LED indication function



GBM
The electronic compartment can rotate 360 degrees, which can easily realize the required wiring direction.



KH
Miniaturization design Integral pressure-resistant outer tube type.

Output (accuracy)

| Resolution | GB/GBM | CH | DH | KH | GA |
|------------|------------|------------|------------|------------|------------|
| Analog | 16 bit D/A | 16 bit D/A | 16 bit D/A | 16 bit D/A | 16 bit D/A |
| Start/Stop | - | ** | - | - | - |
| SSI | 0.5μm | 0.5μm | 0.5μm | - | 0.5μm |
| CANopen | 2μm | - | 2μm | - | - |
| IO-Link | - | 1μm | - | - | 1μm |

Nonlinear degree ≤ ±0.02%F.S.

*KH ≤ ±0.04%F.S.

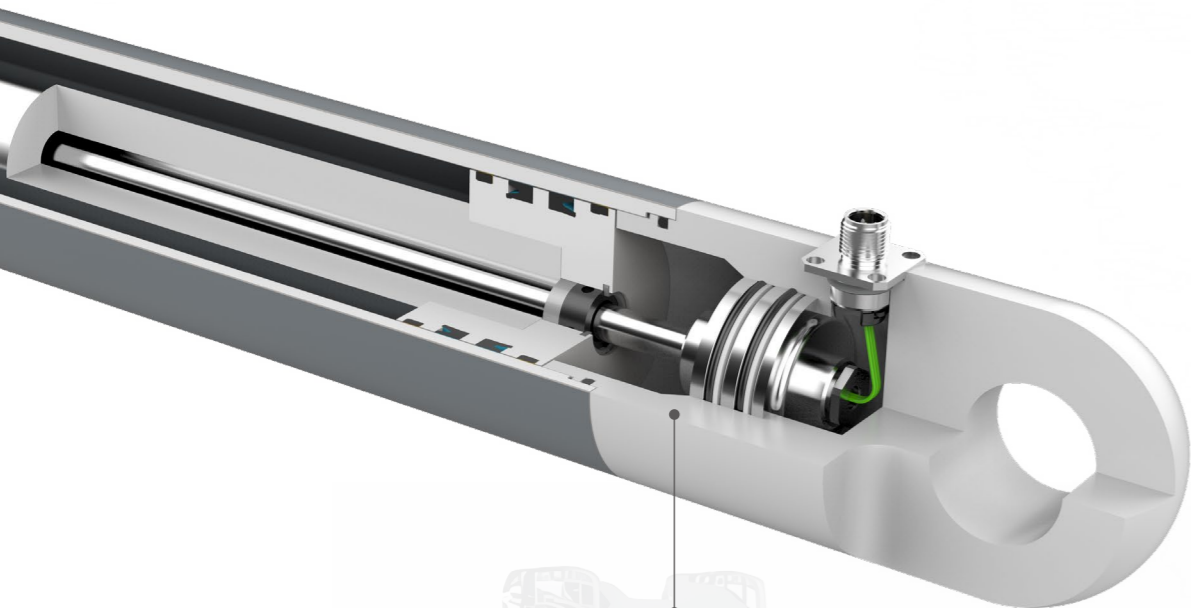
Working conditions

| | | |
|--------------------|--|--------------------------------|
| Operating voltage | 9VDC~36VDC | *GA/GB/CH(SSI):24VDC(-15/+20%) |
| Temperature | -40~85°C | *CH(Start/Stop) : -40~120°C |
| Ingress protection | IP68(Direct-out cable) IP67(Aerial insertion type) | *CH: IP69K |
| Shock | 100 g/6 ms, IEC standard 60068-2-27 | |
| Vibration | 15 g/10~2000 Hz IEC standard 60068-2-6 (excluding resonance frequency) | |

Effective range

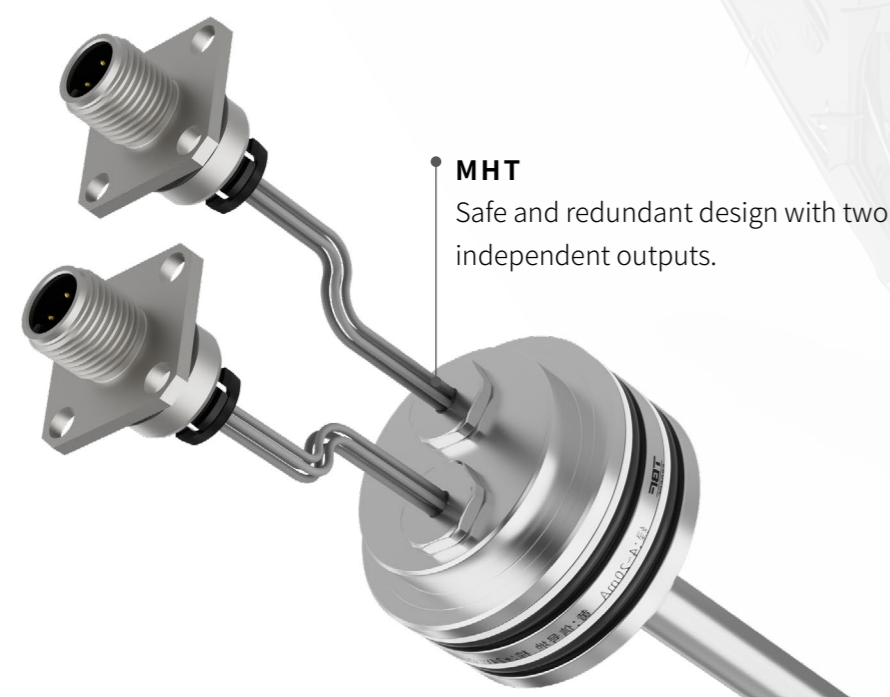
Effective range 50~4500mm

** Depending on the controller



MH
 Various sealing and fixing forms
 Shock resistance and vibration
 resistance
 Widely used in engineering equipment
 industry

ES
 Miniaturization design



MHT
 Safe and redundant design with two
 independent outputs.



EE

Embedded type

Magnetostrictive displacement sensor

In order to meet the integrated application in the cylinder, the product can be embedded in the hydraulic cylinder, and the equipment provides a variety of installation and fixation methods such as thimble type, double seal type and single seal type.

Output (accuracy)

| Resolution | EE | ES | MH | MHT |
|------------|------------|------------|------------|------------|
| Analog | 16 bit D/A | 16 bit D/A | 16 bit D/A | 16 bit D/A |
| Start/Stop | - | - | - | - |
| SSI | 0.5μm | - | - | - |
| CANopen | - | 100μm | 0.5μm | 0.5μm |

| Nonlinear degree | EE | ≤ ±0.02%F.S. |
|------------------|-----------------|--------------|
| | ES | ≤ ±0.04%F.S. |
| | MH/MHT(Analog) | ≤ ±0.04%F.S. |
| | MH/MHT(CANopen) | ≤ ±0.02%F.S. |

Working conditions

| | | |
|--------------------|--|------------------------------|
| Operating voltage | 9VDC~36VDC | |
| Temperature | EE/ES | -40~85°C |
| | MH/MHT | -40~85°C (105°C customized) |
| Ingress protection | IP68(Direct-out cable) | IP67(Aerial insertion type) |
| | IP69K | |
| Shock | 100 g/6 ms, IEC standard 60068-2-27 | |
| Vibration | 15 g/10~2000 Hz IEC standard 60068-2-6 (excluding resonance frequency) | |

Effective range

| | |
|-----------|-----------|
| EE/MH/MHT | 50~4500mm |
| ES | 50~2500mm |

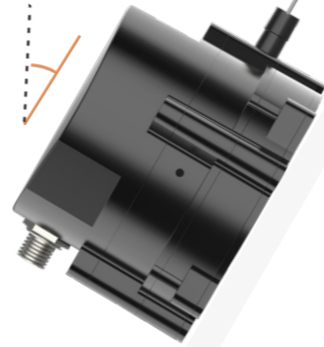
Draw wire sensor

Long angle sensor

The cable displacement sensor has the characteristics of compact structure, high precision and long measuring stroke. Its principle is to convert mechanical motion into electrical signals that can be measured, recorded or transmitted. RTQ7 and RTQ12 are long-angle sensors with the function of measuring length and inclination.



RTQ12(Long angle sensor)
 Range: 0...12m
 inclination: 0...360°
 Output: : CANopen



RTQ7(Long angle sensor)
 Range: 0...7m
 inclination: 0...360°
 Output: : CANopen



RT40D
 Range: 0...1m
 Output: 4...20mA



RT60B
 Range: 0...3m
 Output: 4...20mA/CANopen



RT60
 Range: 0...5m
 Output: 4...20mA/CANopen



RT80D
 Range: 0...8.3m
 Output: 4...20mA/CANopen(Redundant output)



RT90S
 Range: 0...3.5m
 Output: 4...20mA



RT120S
 Range: 0...4m
 Output: 4...20mA, CANopen



Encoder

Compact, Standard, Heavy-Duty

Encoder is used to record the angle and rotation speed, so as to realize accurate control, facilitate real-time monitoring and adjustment of component state, and thus improve the automation degree and work efficiency of construction machinery.



**Standard Encoder
BNMA58**
Diameter: 58mm
Single lap resolution: 8...16bit
Number of pturns: < 24bit
Interface: SSI/SSI+increment, CANopen/
CANopen+increment



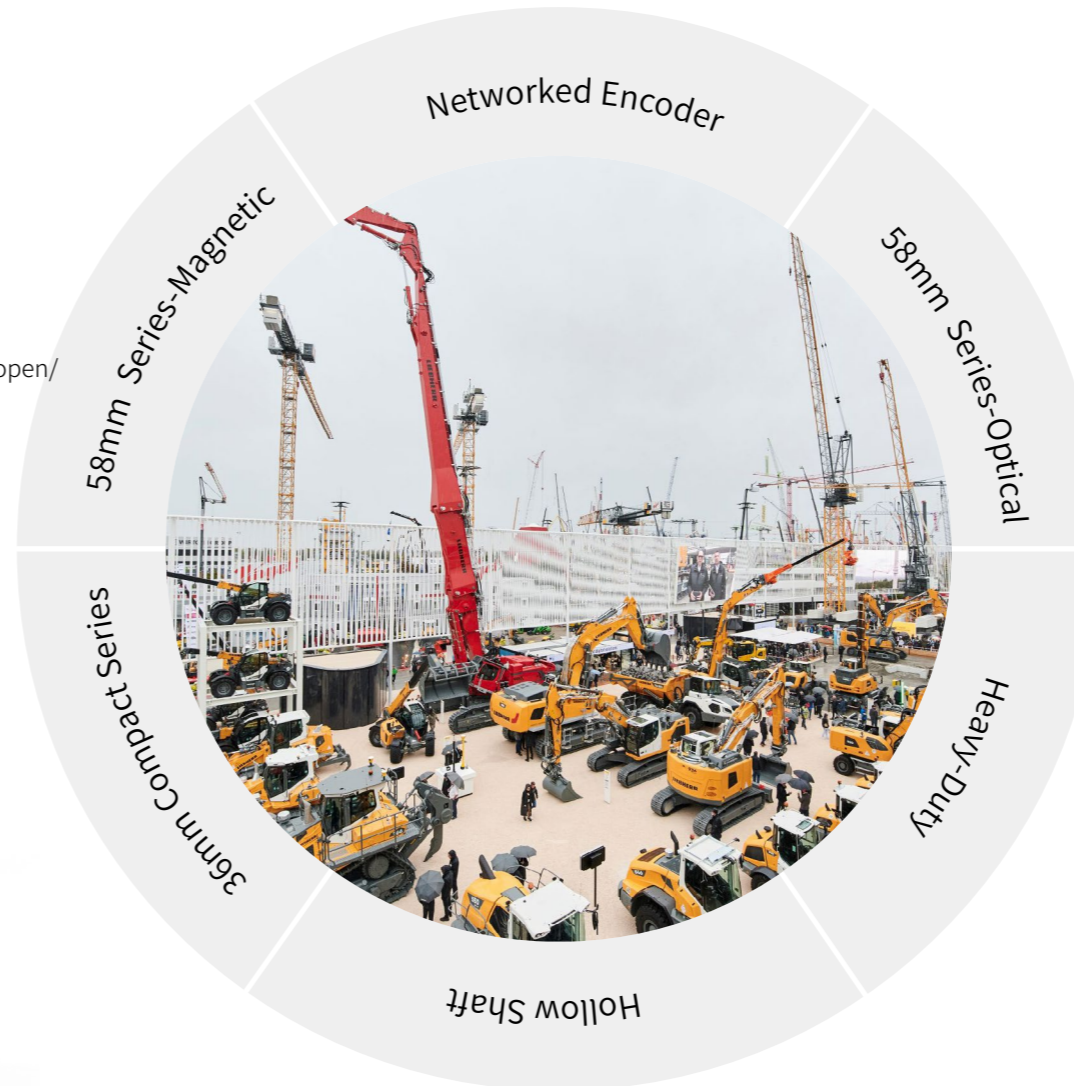
**Networked Encoder
BNMA58**
Diameter: 58mm
Single lap resolution: 8...16bit
Number of pturns: < 24bit
Interface: Profinet



**Standard Encoder
BNTI58**
Diameter: 58mm
Single lap resolution: 5000PPR
Output: TTL/HTL



**Compact Encoder
BNMA36**
Diameter: 36mm
Single lap resolution: 12...14bit
Number of pturns: 13bit
Interface: SSI, SSI+increment,
CANopen



**Heavy-Duty Encoder
BNTI100**
Diameter: 99.5mm
Resolution: 1024/5000PPR
Output: TTL/HTL



**Hollow Shaft Encoder
BNTI99**
Diameter: 99mm
Resolution: 1024/5000PPR
Output: TTL/HTL

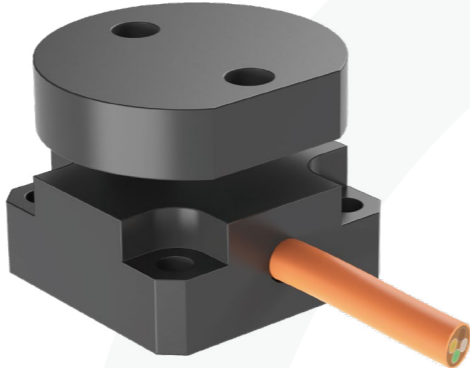
Inclination sensor

It can be used in the application field of pursuing safety and high stability under harsh environmental conditions. A 3-axis gyroscope and a high-performance microcontroller are integrated inside. It can measure the attitude angle of xyz axis at the position where the sensor is installed, and can achieve stability in harsh environment. Fixed sensing.

Angle sensor

The angle sensor is a device for measuring the rotation angle, which measures the change of the angle based on the physical principle. When there is a change between the rotating magnetic field and the Hall sensor, the Hall sensor can measure different magnetic field signals to determine the rotation angle.

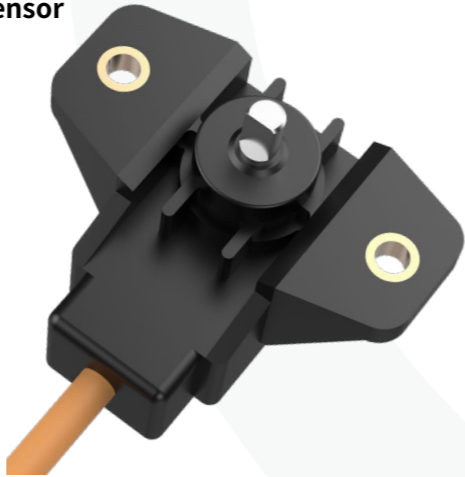
QM Angle sensor



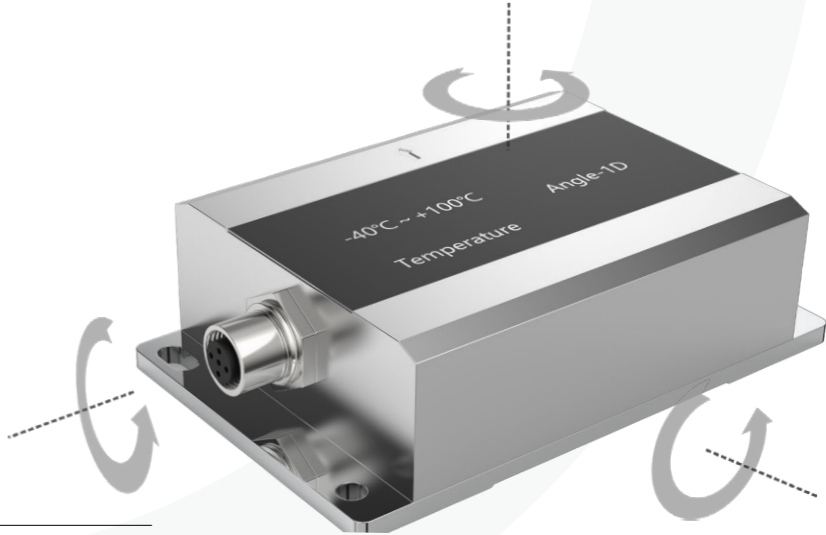
BNS74 Angle sensor



QF Angle sensor



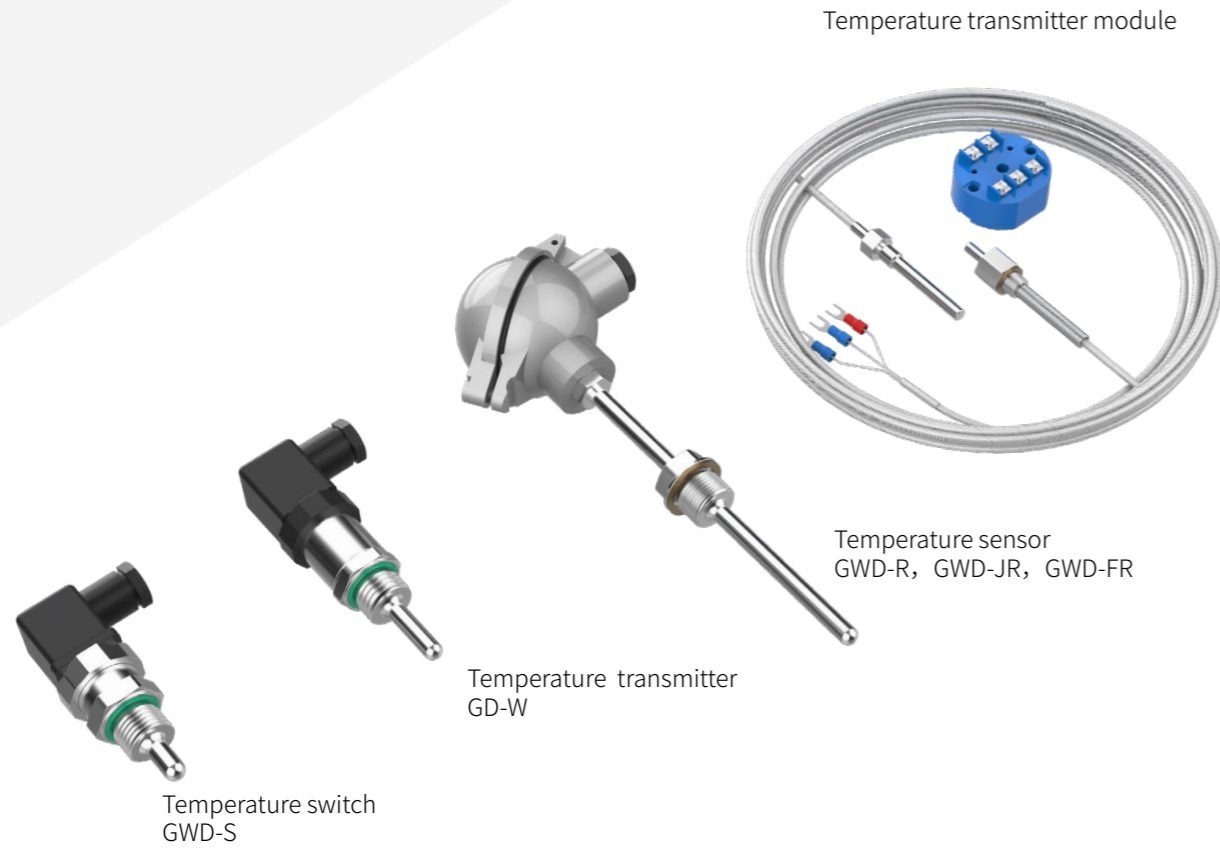
DAT12076-1D Angle temperature sensor



| | | | | |
|------------------|-----------------|-----------------|---------------------|---|
| Type | QM Angle sensor | QF Angle sensor | BNS74 Angle sensor | DAT12076 Angle temperature sensor |
| Measurement data | Angle | Angle | Angle | Inclination and temperature |
| Output: | Analog | Analog | CANopen | CANopen |
| Measuring range | 0° -360° | 0° -90° | 0~360° | X-axis: -180° ...+180°, Y-axis:-90° ...+90°, Z-axis:0...360° Temperature:-40°C ...+100°C |
| Resolution | Angle: 0.09° | Angle: 0.1° | 0.1° /0.01° /0.001° | Inclination: 0.1° Temperature: 0.1°C |

Temperature Series

Temperature sensor/Transmitter/Switch
Liquid level temperature sensor



| | | | | | | |
|---|--------------------------------|--|--|-----------------------|------|------|
| Temperature measuring range | -50~300°C (normal -50~250°C) | | | | | |
| Graduation number/resistance value | | The standard resistance value R at 0°C | The standard resistance value R at 100°C | | | |
| | PT100 | 100.00 | 138.51 | | | |
| | PT1000 | 1000.00 | 1385.1 | | | |
| Measurement Error | Grade | Error of resistance at zero degree% | | Temperature error °C | | |
| | A | ±0.06 | | ± (0.15+0.002 t) | | |
| | B | ±0.12 | | ± (0.30+0.005 t) | | |
| Response time | Rod diameter mm | 5 | 6 | 8 | 10 | 12 |
| | Thermal response time s (T0.5) | ≤ 8 | ≤ 15 | ≤ 30 | ≤ 30 | ≤ 30 |

Liquid level temperature series

—Precise monitoring of liquid level and temperature, stable and reliable.

The float-type liquid level temperature sensor adopts the integrated design of float and temperature probe, which can measure liquid level height and liquid temperature at the same time, and has the characteristics of simple structure, corrosion resistance, strong antiinterference and long service life.



| | | |
|--------------------|--|-----------------|
| Type | LH-YT | YW |
| Liquid level range | 40...2000mm | 50...4500mm |
| Temperature range | -40...125°C | -40...125°C |
| Output | 4 channels of NPN/PNP+2 channels of analog signals | Analog, CANopen |

Pressure transmitter series

Pressure transmitter, digital display pressure, pressure switch

Adopting international advanced metal sputtering film pressure core, high-precision silicon pressure core and high-precision silicon flat film core, the equipment has high long-term stability, small temperature drift, wide temperature range, high precision and high pressure impact resistance.

Digital pressure transmitter

- The electronic compartment can rotate freely 330°
- Analog+Two-way switch output



Hessman digital display pressure transmitter

- Adapting hessman connector of pressure transmitter



| | | |
|---------|---|--|
| Type | PC-T / PE-T | PC / PE / PC-J |
| Name | Digital pressure transmitter | Hessman digital display pressure transmitter |
| Explain | Digital display pressure transmitter with integrated display; The electronic compartment can rotate freely by 330°. | Adapted to hessman connector of pressure sensor, it can set pressure unit, zero/full position correction point, upper/lower range and other functions. |

PC-type pressure transmitter

- High precision silicon pressure core
- Measuring range:-1~600Bar



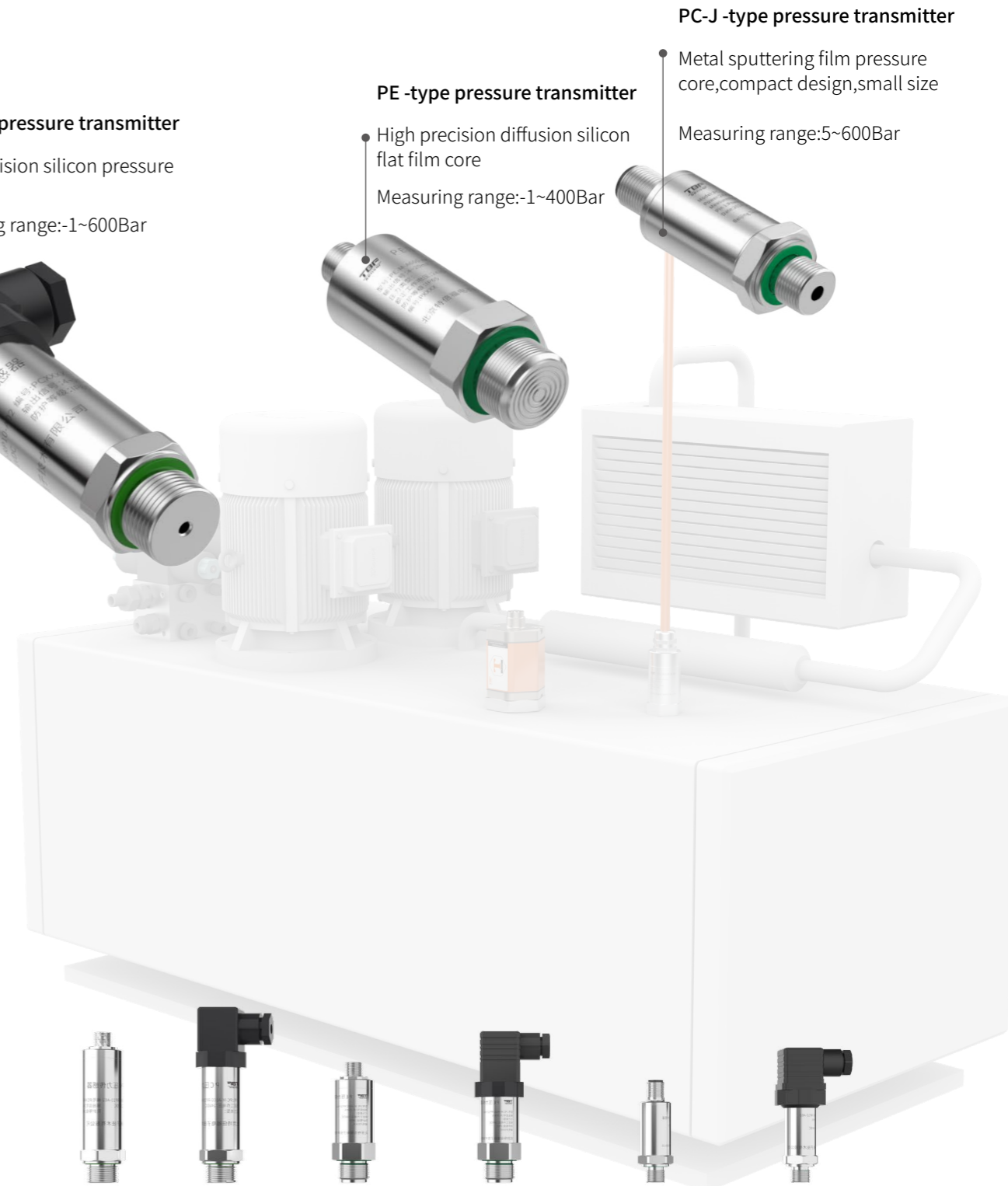
PE-type pressure transmitter

- High precision diffusion silicon flat film core
- Measuring range:-1~400Bar



PC-J-type pressure transmitter

- Metal sputtering film pressure core, compact design, small size
- Measuring range:5~600Bar



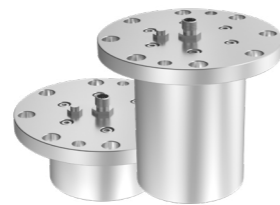
| | | | |
|-----------------|---|--------------------------------------|-----------------------|
| Type | PC | PE | PC-J |
| Pressure core | Diffused silicon | Diffused silicon flat film | Metal sputtering film |
| Measuring range | -1~600Bar | -1~400Bar | 5~600Bar |
| Pressure Type | Gauge pressure, absolute pressure and sealed gauge pressure | Gauge pressure and absolute pressure | Gauge pressure |

Pressure transmitter series

It is used to monitor the earth pressure in the earth cabin of shield machine, that is, the pressure of mud or soil. This is a very important parameter in the construction of shield machine, because it directly reflects the stability of soil and the tunneling conditions of shield machine.

Earth pressure monitoring: measure the pressure of the soil in front of the shield machine in real time to help the operator control the advancing speed and direction of the shield machine.

Mud parameter monitoring: including mud density, viscosity and other parameters to ensure that the mud performance meets the construction requirements.












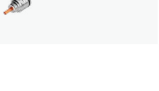
| | PT Soil pressure transmitter | PT(D86) Soil pressure transmitter | LP Grouting pressure transmitter | PF Mud water pressure transmitter | PNJ Mud transmitter | PSY01 Ceramic membrane piezometer | PF-H Circulating pipeline pressure transmitter |
|----------------------|--|---|--|--|---|--|--|
| Measurement data | Pressure, temperature | Pressure, temperature | Pressure | Pressure | Pressure | Pressure | Pressure |
| Pressure type | Gauge pressure and absolute pressure | | | | | | |
| Output: | 4~20mA; 0~5V; 1~5V; 0~10V | 4~20mA; 0~5V; 1~5V; 0~10V | 4~20mA; 0~5V; 0~10V | 4~20mA; 0~5V; 0~10V | 4~20mA; 0~5V; 0~10V | 4~20mA HART | 4~20mA; 0~5V; 0~10V |
| Supply voltage | 12-32VDC | 8-36VDC | 12-32VDC | 12-32VDC | 12-32VDC | 12-32VDC | 12-32VDC |
| Measuring range | 0~0.6MPa、0~1.0MPa、-0.1~1.6MPa (Other ranges can be stomized.) temperature: -30-100°C | Pressure: 0~1.0MPa (Other ranges can be customized.) temperature: -30-100°C | -0.1~4MPa (Other ranges can be customized.) | 0~1.0MPa、0~1.6MPa、-0.1~1.5MPa (Other ranges can be customized.) | 0~1.6MPa (Other ranges can be customized.) | -0.1~4MPa (Other ranges can be customized.) | -0.1~1.5MPa (Other ranges can be customized.) |
| Measurement accuracy | pressure: ±0.5%F.S. temperature: ±1°C | pressure: ±0.5%F.S. temperature: ±1°C | ±0.5%F.S. | ±0.5%F.S. | ±0.5%F.S. | ±0.3%F.S. | ±0.5%F.S. |
| Overload pressure | 200%F.S. | 200%F.S. | 200%F.S. | 200%F.S. | 200%F.S. | 200%F.S. | 200%F.S. |
| Working temperature | 0°C ~ 70°C | 0°C ~ 70°C | 0°C ~ 70°C | 0°C ~ 70°C | 0°C ~ 70°C | -20°C ~ 70°C | 0°C ~ 70°C |
| Procedure linkag | flanged connection | flanged connection | lathedog | G2 threaded connection | Install thread R 2", tail thread R 1 1/2" | G1 1/2、G2 | R 1 1/2" |
| Type of TBM | Soil pressure shield machine | Soil pressure shield machine | Mud shield machine | Dual-mode shield machine | Dual-mode shield machine | Dual-mode shield machine | TBM Universal |

Product overview

The dedicated sensory system for engineering machinery



- Magnetostrictive displacement sensor
- Draw Wire Sensor
- Angle/inclination sensor
- Process state monitoring-Temperature
- Encoder
- Pressure transmitter

Position detection-magnetostrictive displacement sensor





| Bild | Type | Range | Electrical interface |
|---|------|-------------|--|
|  | T3H | 50...7650 | Analog, SSI, Start/Stop, CANopen, EtherNet/IP, IO-Link, PROFINET, EtherCAT |
|  | T3D | 50...5600 | Analog, SSI, Start/Stop, CANopen, EtherNet/IP, IO-Link, PROFINET, EtherCAT |
|  | T3F | 100...20000 | Analog, SSI, Start/Stop, CANopen, EtherNet/IP, IO-Link, PROFINET, EtherCAT |
|  | CH2 | 50...4500 | Analog, SSI, Start/Stop |
|  | DH2 | 50...5600 | Analog, SSI, CANopen |
|  | K | 50...5600 | Analog |
|  | GB | 50...4500 | Analog, SSI, Start/Stop, CANopen |
|  | GBM | 50...4500 | Analog, SSI, Start/Stop, CANopen |
|  | MH | 50...4500 | Analog, CANopen |
|  | ES | 50...2500 | Analog, CANopen |

Position detection-draw wire sensor








| Draw Wire Sensor | Type | Range | Electrical interface |
|--|--------|----------|----------------------|
|  | RT40D | 0..1m | Analog |
|  | RT60 | 0...5m | Analog CANopen |
|  | RT60B | 0...3m | Analog CANopen |
|  | RT120S | 0...4m | Analog CANopen |
|  | RT80D | 0...8.3m | Analog CANopen |
|  | RT90S | 0...3.5m | Analog |
|  | RT175 | 0...12m | Canopen SSI |

| Long angle sensor | Type | Range | Electrical interface |
|---|-------|---|----------------------|
|  | RTQ7 | Range: 0...7m Inclination: 0...360° | CANopen |
|  | RTQ12 | Range: 0...12m Inclination: 0...360° | CANopen |








Monitoring of angle/inclination

| Angle sensor | Type | Range | output |
|---|---|--|---------|
|  | QM | 0...360° | Analog |
|  | QF | 0...90° | Analog |
|  | BNS74 | 0...360° | CANopen |
| Inclination sensor | Type | Range | output |
|  | DAT12076 (uniaxial/biaxial/triaxial) | Inclination:0...360° Temperature:-40°C+100°C | CANopen |













Rotational position monitoring-encoder

| Absolute value | Type | Output | Resolution |
|--|---------------------------------|---|---|
|  | BNMA36 (magneto-electricity) | CANopen | Single circle: 12-14bit Multi-circle: 13bit |
|  | BNMA58 (magneto-electricity) | Profinet | Single circle: 12-16bit Multi-circle: ≤ 20bit |
| Increment | Type | Output | Resolution |
|  | BNTI58 (photoelectricity) | TTL / HTL Channel: A A- B B-Z Z- | 10000, 5000, 2500, 1250 8192, 4096, 2048, 1024 7200, 3600, 1800, 900 PPR |
|  | BNTI99 (photoelectricity) | TTL / HTL Channel: A A- B B-Z Z- | 5000 PPR |
|  | BNTI100 (photoelectricity) | TTL / HTL Channel: A A- B B-Z Z- | 1024 PPR |
| Absolute value+increment | Type | Output | Resolution |
|  | BNMA58 (magneto-electricity) | SSI/SSI+increment CANopen/CANopen+increment increment Channel: A A- B B- | Single circle: 8-16bit, Multi-circle: ≤ 24bit increment: 512PPR, 1024PPR, 2048PPR, 4096 PPR (Other values can be customized) |
|  | BNMA36 (magneto-electricity) | SSI/SSI+increment increment Channel: A A- B B- | Single circle: 12-14bit, Multi-circle: 13bit increment: 512PPR, 1024PPR, 2048PPR, 4096 PPR (Other values can be customized) |

Process state monitoring-temperature

| Temperature series | Name | Type | Range | Output |
|---|---------------------------------|--------|---|------------------------------------|
|  | Temperature switch | GWD-S | -20~120°C | SPST |
|  | Temperature transmitter | GD-W | 0~100°C | Analog |
|  | Temperature sensor | GWD-JR | -50~300°C | Resistance signal |
|  | Temperature sensor | GWD-R | -50~250°C | Resistance signal |
|  | Temperature sensor | GWD-FR | -50~250°C | Resistance signal |
|  | Liquid level temperature sensor | YW | Liquid level : 50...4500mm temperature : -40...125°C | Analog |
|  | Liquid level temperature sensor | LH-YT | Liquid level: 40...2000mm temperature : -40...125°C | 4-way switch value+2-way Analog |

Process state monitoring-pressure

| Liquid, gas | Type | Range | Output |
|---|---|---|---|
|  | PC-J | 5...600Bar | Analog current output, analog voltage output |
|  | PE | -1...400Bar | Analog current output, analog voltage output, RS485 |
|  | PC | -1...600Bar | Analog current output, analog voltage output |
|  | PE-T | -1...400Bar | Analog+Two-way switch output |
|  | PC-T | -1...600Bar | Analog+Two-way switch output |
| Sludge water and earth pressure | Type | Range | Pressure type |
|  | PT (Earth pressure transmitter) | 0...0.6MPa, 0...1.0MPa, -0.1...1.6MPa (Customizable) temperature: -30-100°C | Gauge pressure absolute pressure |
|  | PT(D86) (Earth pressure transmitter) | 0...1.0MPa (Customizable) temperature: -30-100°C | Gauge pressure absolute pressure |
|  | LP (Grouting pressure transmitter) | -1...4MPa (Customizable) | Gauge pressure absolute pressure |
|  | PF (Mud water pressure transmitter) | 0...1MPa, 0...1.6MPa, -0.1...1.5MPa (Customizable) | Gauge pressure absolute pressure |
|  | PNJ (mud pressure transmitter) | 0...1.6MPa (Customizable) | Gauge pressure absolute pressure |
|  | PSY01 (Ceramic membrane piezometer) | -0.1...4MPa (Customizable) | Gauge pressure absolute pressure |
|  | PF-H (Circulating pipeline pressure transmitter) | -0.1...1.5MPa (Customizable) | Gauge pressure absolute pressure |

TECHNOLOGY PERCEIVES THE FUTURE

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Any changes are made without prior notice
