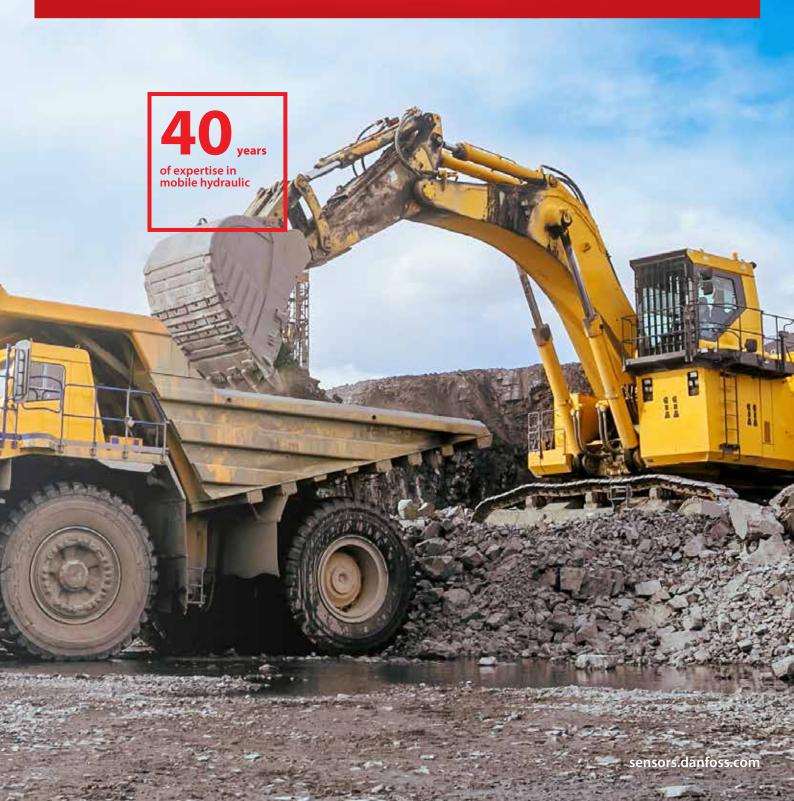
ENGINEERING



Mobile Hydraulic | Off-highway equipment

The performance of your large equipment relies on the quality of its small components



Success is about teamwork

Choose components your large equipment can rely on

Since 1933, professionals have relied on Danfoss. On our extensive know-how and innovative mind-set. On our detailed engineering with comprehensive effects.



Stay in control of your challenges

As a professional you face challenges every day. And if those challenges are not being met, they are like a domino effect causing business critical effects. As a professional, you know that quality is your answer to the challenges. Quality of people, machines, and components.

Working in Construction, Agriculture, Material handling, or Forestry you aim to stay in control and:

- Avoid downtime or faulty operations
- Maximize machine efficiency
- Minimize lost revenue
- Ensure operator safety



Stay on top with reliable components

Every day, professionals face business critical challenges that threaten their operations. Unfortunately, we cannot be a guardian angel against all obstacles but we can provide state-of-the-art components that reduce unplanned equipment downtime and ensure optimum performance.









How heavy is the load? In todays world, cranes and other large handling machines must operate within very specific load ranges. As operator demands increase, accurate pressure data from the load limiting systems in your high-quality lifting machines are crucial in safeguarding your equipment, the load, and not least the operator.



EMC performance



Long-term stability



High accuracy









Agriculture

Today, farming is like a science based on great precision. When sowing, fertilizing, and reaping, faulty equipment can have huge implications in terms of money, failed crops, and harm to the environment. Therefore, it is extremely important to achieve and maintain an optimum machine performance and the right pressure sensors are key in doing so.



High IP protection



Long-term stability



Stainless steel wetted parts



Forestry

The forest is a place of fragility and a harsh environment. Between the two opposites, it is a place of life that continuously grows and renews itself, when managed correctly. To do so, heavy equipment is needed as the machinery in use are exposed to extreme conditions when it comes to mechanical wear, heavy loads, tough ground conditions, and long working days.



High accuracy

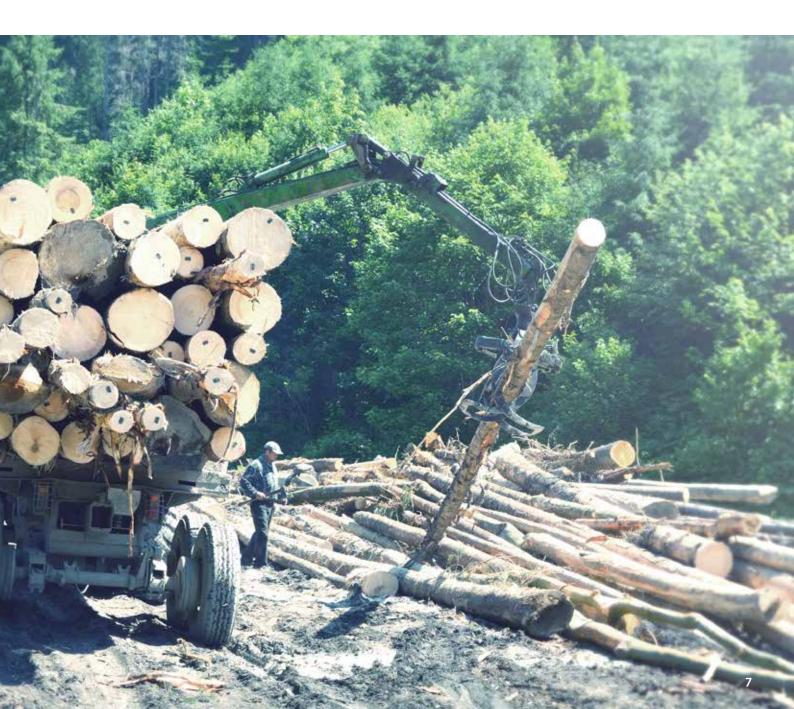


EMC performance



Pressure spikes





Achieve business critical impact

with small components



Longer equipment lifetime

Smarter hydraulic controls extend the life of your mobile equipment

One example of this is Electronic Load Sensing that fine-tunes your engine output according to your actual demand.

- Extends the life of your hydraulic components
- Reduces downtime and maintenance costs
- · Saves fuel and emissions







Better operator comfort

Increase operators' safety and performance with improved comfort

One of the ways you can do this is by making Continuously Variable Transmissions (CVT) run smoother with pressure sensors.

- · Reduces operator exposure to vibration
- · Improves employee satisfaction
- · Increases engine performance
- Reduces fuel consumption





Reduced downtime and maintenance costs

How do you know when oil filters are clogged and need to be changed?

With Danfoss pressure transmitters, operators have access to constant, real-time information on filter status, which helps reduce machinery downtime and maintenance costs.

- · Access to real-time information
- Decreased downtime
- · Improved hydraulic oil quality



Choosing the right components is key to your success

Granted, components only make up a small part of your machinery. But despite their size, components are vital in making the best of your equipment. We offer a wide range of innovative and reliable components which makes your equipment run smarter, faster, and more efficiently.

Our zero-defect policy is your guarantee for a constant and high-performing quality. We use the same production processes and quality assurance standards worldwide in accordance to IATF 16949 letter of approval. It makes it possible for us to offer you best-in-class components. Every time. Everywhere.

Achieve your business goals with the best components.

Our zerodefect policy

is your guarantee for best-in-class components – everytime

MBS 1250 Pressure transmitter Failsafe measuring signal and long-term stability



High burst and over pressure capabilities due to fully welded design



Excellent EMC immunity, ensuring a failsafe measuring signal



High tolerance to mechanical shock and vibrations





DST P650 Smart sensor pressure transmitter

Automatic failure detection enables fast troubleshooting and preventative maintenance



Diagnostics - preventative maintenance



High burst and over pressure capabilities due to fully welded design



Excellent EMC immunity, ensuring a failsafe measuring signal



Scan QR code and see full product portfolio





DST P92S SIL2 Pressure transmitter Simplified functional safety compliance and optimum safety



TÜV approved according to ISO 13849-1, PLd and IE61508, SIL2



Small in size - fits in all applications (Hex 22)



Designed to enhance safety, improve performance, and reduce maintenance costs



MBT 2310 Bearing temperature sensor

Improve performance while optimizing predictive maintenance



Separate spring-loaded for accurate bearing measurement



Quick response time is achieved by placing the sensor element at the very tip of the sensor tube



All sensor tube and pocket material are made of AISI 316 Ti



Scan QR code and see full product portfolio





MBT 3270 and MBT 3560
Temperature sensors
Safe and energy efficient
operation of your machine



Fast reaction time to temperature changes



High tolerance to mechanical shock and vibrations



Robust, high protection against moisture ensuring long term reliability and lower failure rate





DST X510 and X520 Rotary position sensors **Versions with and without**

Versions with and without shaft for easy mounting



Higher repetition rate and lower hysteresis due to low shaft wear on the DST X510 – no shaft ware on DST X520



Hall effect technology and available in single or redundant versions



Able to detect angles from ±15° up to 360°





DST X710, X720, and X730 Inclination sensors

From compact design to high precision options



The inclination sensors ensure limited dynamics and reduced vibrations due to multiple digital filter settings



MEMS technology available with single or redundant configuration



Single and redundant versions available



Scan QR code and see full product portfolio



DST X800 Wire position sensors

Detecting the extension of cranes, booms, platforms, and masts



Reduced dimension (65mm height) makes it suitable for applications with limited space for installation and easy integration



Versions available in different measurement lengths ensure perfect fit of resolution for any application



Guided cable winding ensures guaranteed repeatability

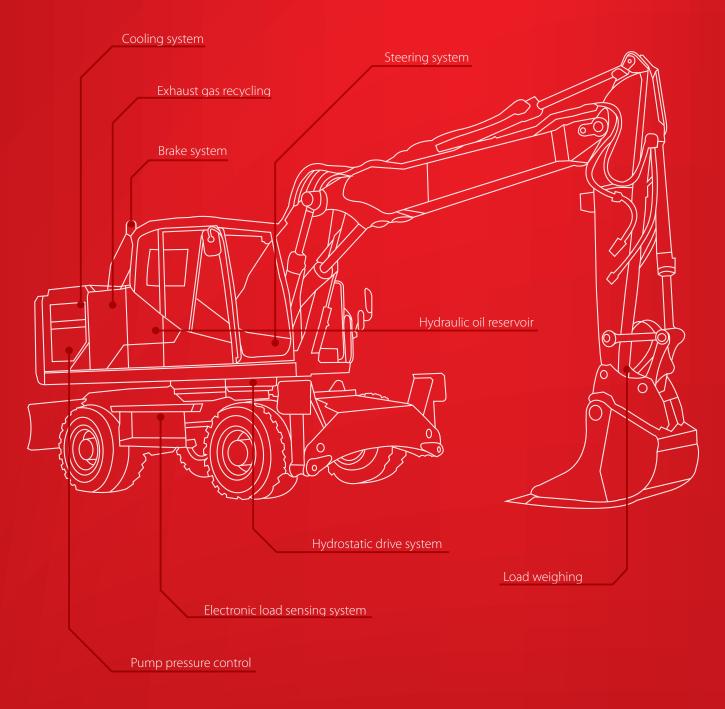




Intelligent automation

wherever performance matters

Built-in intelligence opens new opportunities for safe, clean, and efficient operation of mobile hydraulic equipment. Pressure and temperature sensors in hydraulic and transmission systems enable surveillance and control of all vital processes to ensure maximum performance, reduce down-time, cut down on fuel, and provide the necessary safety in the daily work environment.





Be part of our sensor technology world

We are right next to you. In fact, take a look inside practically any off-highway equipment and you'll find components from Danfoss Sensing Solutions playing a key role in saving fuel costs, improving manmachine safety, reducing emissions and product life cycle costs.

Cooperation with Danfoss Power Solutions

To improve and ease your business, we work in close collaboration with Danfoss Power Solutions. This helps you to power, propel, control, and steer off-highway machines efficiently, safely, and reliably with a wide range of hydraulic and electronic components.

But we are also cooperating with you. Decades of close cooperation with OEM's have given us unique expertise in how pressure, temperature and position sensors and switches enable improved performance and safety in all kinds of mobile equipment.

We apply our expertise to innovate the solutions you are looking for. Today. And tomorow.

Learn more at hydraulicsensors.danfoss.com

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