

Strainstall's marine capabilities

Protect the integrity of your marine and offshore assets with Strainstall.

Straininstall is a world leader in the development of innovative monitoring solutions that enhance the safety and performance of your marine assets.

Our expertise and understanding within the marine and offshore industries enables us to meet the highly challenging and technically demanding needs of our customers.

We develop and apply our innovative technologies to both standard and bespoke, load, strain and stress measuring techniques, which are proven to perform year on year in hostile and hazardous environments.

We are also active in designing, installing and commissioning complete marine monitoring systems which provide real financial benefits, optimised performance and improved operational safety.

A trusted brand and international partner

As part of James Fisher and Sons plc, Straininstall is an innovative and fast growing company.

Working in partnership with sister company Fendercare Marine, our customers benefit from a streamlined supply chain, reduced contractual risk and significant experience across the marine, oil and gas and other high assurance industries worldwide.

Fendercare Marine is a world leader in the development of marine products and services. By leveraging James Fisher's global reach, complementary services and unique marine operational expertise, we have an unrivaled ability to meet the constantly developing needs of the markets in which we work.

This synergy enables the delivery of solutions to the most operationally challenging projects faced by our customers worldwide.

Committed to quality and safety

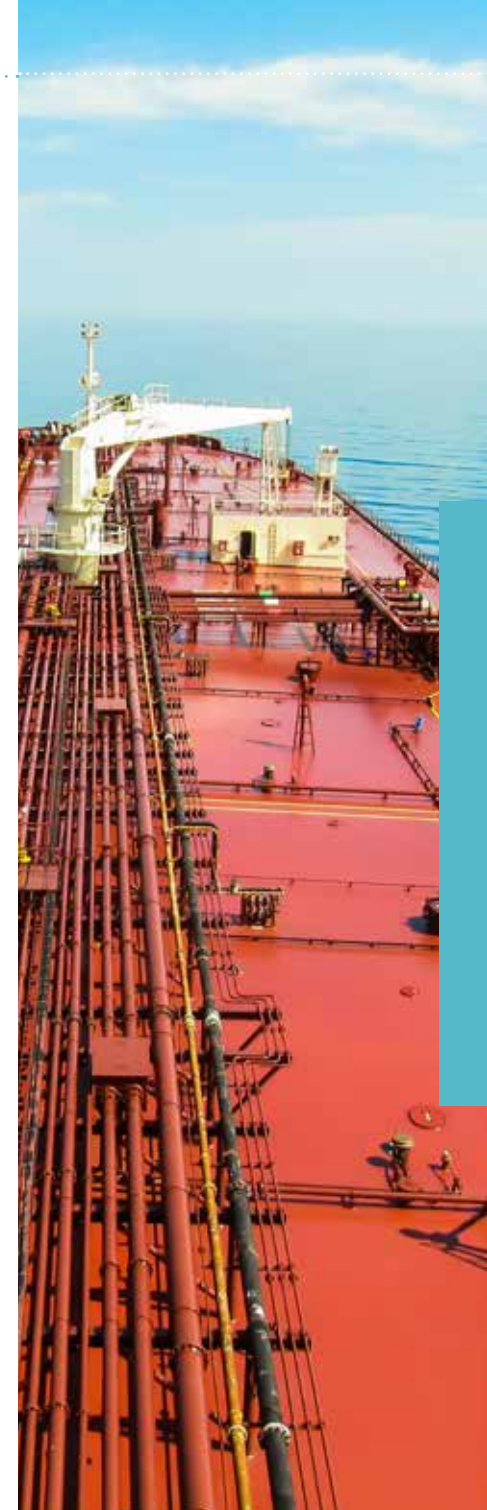
Straininstall places great emphasis on the importance of health, safety, quality and environmental impact of its operations.

We ensure best practice and compliance to regulations as evidenced through our industry accreditations and memberships including SGS Baseefa, ATEX, IECEx and LEEA.

We are committed to delivering the highest standards to meet our customers' exacting requirements operating a quality management system compliant with the requirements of ISO 9001: 2008.

All sensors and monitoring systems have been designed and certified to ensure safe operation when it matters, on some of the most high-profile structures in the world.

We design and manufacture equipment to operate in hazardous areas up to Zone 0 (ATEX and IECEx), and have approvals from all major societies including ABS, DNV GL, LRS and BV.



Load measurement products

Hazardous area products



Strainstall is a leading supplier of hazardous area approved load measurement equipment including load cells, load pins and amplifiers as well as full asset monitoring systems.

All of our hazardous area products are fully certified by SGS Baseefa - the leading, internationally recognised certification body for explosion protected equipment, delivering IECEx, ATEX and DSEAR standards to customers operating in challenging environments worldwide.

Load cells, links, pins and shackles



Strainstall designs and manufactures a range of high-quality, precision engineered load cells, load pins and load shackles to deliver improved operational performance.

Our load measurement products are extremely reliable and designed to provide effective long-term, trouble free operation. We drive technical innovation to meet challenging objectives, using the most modern production methods available and manage delivery to time, quality and cost.

Line tension monitoring



Strainstall's line tension monitors provide a versatile solution for customers looking to ensure that mooring and winch loads remain within safe working limits.

We design and manufacture two types of line tension monitors; the running line monitor (RLM) and the static line monitor (SLM). These rugged, compact and highly accurate units are perfect for applications where a fixed means of measuring is impractical.

Rugged footswitch



Strainstall's rugged footswitch has been specifically designed to combat the issues faced by standard footswitches in adverse and hazardous conditions.

With no moving parts, our rugged footswitch's function is unaffected by exposure to weather, water, salt and other abrasive materials making them ideal for long-term use in arduous environments. They also require little to no maintenance, providing significant cost saving benefits.

Mooring and towing products



Strainstall's quick release mooring and towing products form the basis of a safe mooring system providing advanced protection for personnel and marine infrastructure.

Our quick release mooring hooks, towing hooks and towing load monitoring systems ensure reliable operation while helping to significantly increase safety and reduce the risk of incident within harsh marine environments.

Centre of gravity system



Our centre of gravity system both weighs and calculates the centre of gravity of any large structure, minimising the risk of incidents during lifting operations.

The centre of gravity system is fully configurable to customer requirements. Highly accurate and reliable, it facilitates the safe lifting and transportation of large and heavy structures, such as offshore oil rigs, jack-up rigs and vessels points to keep the structure stable during a lift.

Monitoring systems

Experts in bespoke monitoring systems, Straininstall delivers simple solutions to complex requirements in offshore environments.

Straininstall's solutions provide real financial benefits through the superior and timely information gathered on your asset's condition.

Using the latest technologies, we enable improved operational safety and performance through the monitoring of physical and performance parameters such as load, stress, temperature, acceleration, pressure and displacement.



Offshore structure monitoring

Straininstall designs and manufactures offshore structure monitoring systems to help maintain asset integrity and provide customers with confidence in challenging offshore environments..

We design and manufacture monitoring systems for tension leg platforms (TLPs), FPSOs and other offshore structures for monitoring load, stress, structural dynamics, metocean conditions and other asset critical parameters.

Our offshore structure monitoring systems include:

- Chain Tension Monitoring System (CTMS)[™]
- FPSO swivel load monitoring
- Integrated Marine Monitoring System (IMMS)[™]
- Jack-up rig leg monitoring
- Renewables mooring monitoring
- Riser Tension Monitoring System (RTMS)[™]
- Single point buoy monitoring
- Tendon Tension Monitoring System (TTMS)[™]

Ports and terminals

Straininstall has extensive experience in providing long-term monitoring and control solutions for the operational challenges faced by ports and terminals worldwide.

Our performance enhancing systems range from vessel docking and mooring load monitoring to our innovative container weight verification system that verifies weight in real-time.

Our port and terminal monitoring systems include:

- BerthManager[™] jetty management system
- Loading arm position monitoring
- MoorAlert[™] mooring load monitoring
- Winch tension
- Container Weight System (CWS)[™]



Vessel monitoring

Straininstall supplies a range of asset integrity monitoring systems for all types of marine and offshore vessels that assist ship masters with the comprehensive surveillance of vessel related parameters.

Data is provided in real-time with alarm facilities to warn when pre-defined limits are being approached. All monitored data is available historically for analysis and reporting for use by operators and asset owners.

Our vessel monitoring systems include:

- Intelligent Fender System (IFS)[™]
- StressAlert[™] hull stress monitoring
- Vessel Motion Monitoring System (VMMS)[™]



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A part of
James Fisher and Sons plc
Marine Services Worldwide

