

Load Monitoring Systems for subsea applications

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Subsea & Offshore Brochure



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Crosby|SP supply load monitoring solutions for the offshore subsea engineering and exploration industries

Industries include:

- Oil and gas
- Subsea surveying
- Subsea cable laying
- Salvage and recovery
- Renewable energy (wind and tidal)
- Aquaculture

Crosby|SP is a manufacturer of force measurement, load monitoring, and suspended weighing load cell equipment.

They provide you with all you need to ensure construction and maintenance projects, which involve surface to subsea offshore structures, are successfully completed.

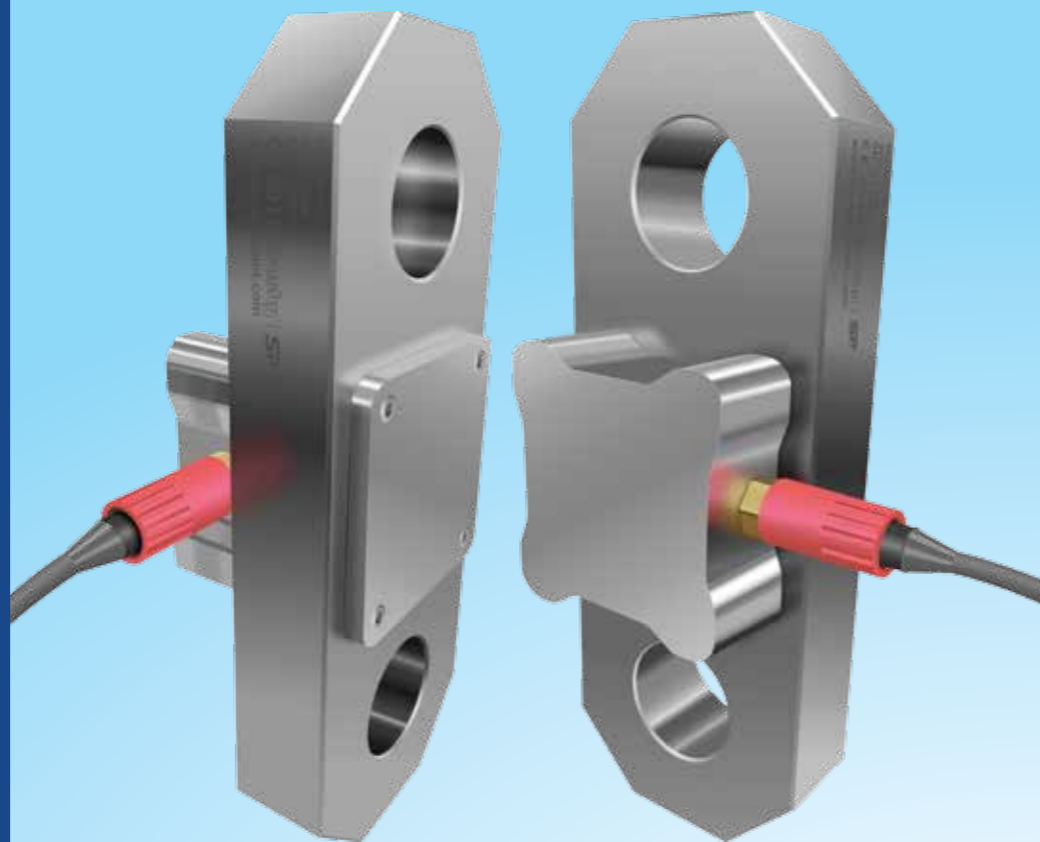
These monitoring systems, consisting of both hardware and software, are ideal for use in measuring both dynamic and static forces endured by rigging lines being used with offshore structures/vessels, such as Floating Production Storage and Offloading vessels (FPSOs).

Crosby|SP products have been put through rigorous testing regimes throughout their development in order to meet the high standards of many globally recognised industry bodies.

These include DNV-GL, ATEX/IECEX, ASME (American Society of Mechanical Engineers), AWRF (Associated Wire Rope Fabricators), SC&RA (The Specialised Carriers and Rigging Association), and many more.

Developed to be used with a wide range of The Crosby Group standard rigging and lifting equipment, currently being utilised within the offshore subsea industry.

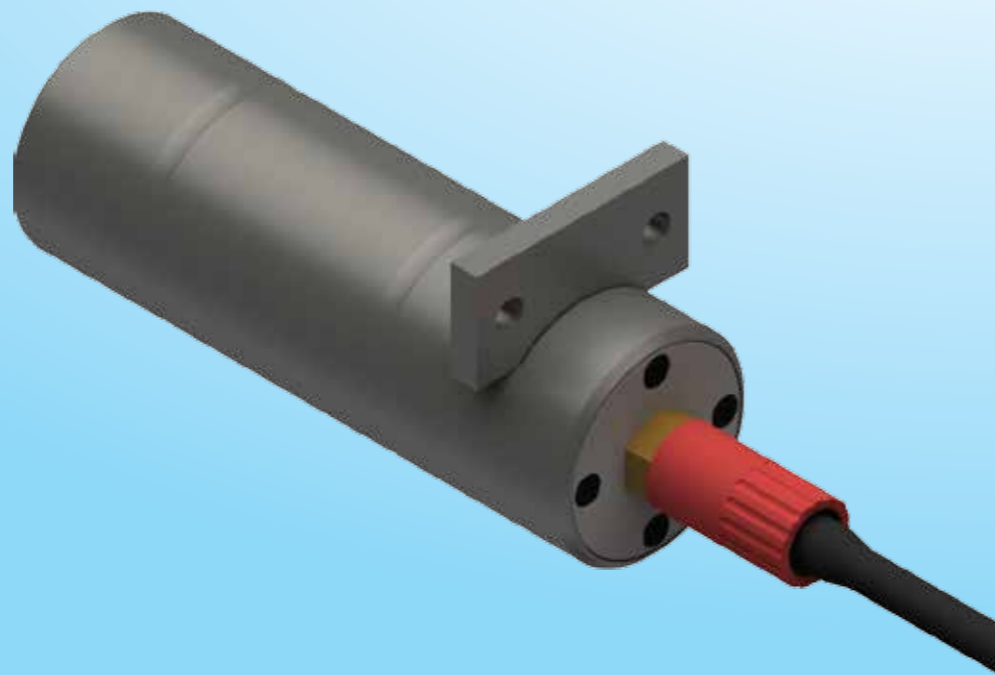
Crosby|SP understand the dangers and offer rugged and reliable product solutions, which have the following features: (see opposite)



Subsea Loadlink



Subsea LoadShackle



Subsea Loadpin

Instrumentation



1. 6.5te – up to 120te capacities
2. Deep subsea cable connection capabilities
3. Compatible to fit major ROV shackles (Crosby)
4. Made from high grade steel alloy that provides durable strength and high levels of corrosion resistance (chemicals and salt water).
5. Two-year warranty
6. Safety factor ratio of 5:1

Reducing risk, increasing safety and preserving assets

The subsea engineering and exploration industries work in ever-increasingly challenging environments, as they continue to run their operations into deeper seas.

Adverse weather, varying sea states and harsh underwater currents can inflict heavy forces against vessel and platforms; enough to test the limits of the mooring lines and flowlines, beyond their extremes.

The engineers working within these industries have to produce highly innovative solutions to these demanding situations out at sea, so that operations can be carried out with the lowest possible working risks to both personnel and assets.

However, the risks are still high and potential disasters could still happen:

- Expensive asset damage or loss
- Environmental e.g. chemical or gas/oil leaks
- Loss of life
- Costly operational disruption

Crosby|SP subsea load cells working together with the compatible software can be utilised within the following activities:

- Oil Rig Decommissioning
- ROV performing engineering/maintenance work
- Floating platform mooring
- Flowline mooring
- ROV seabed surveying
- Sunken Vessel salvage
- CALM buoy single point mooring for vessels
- Bollard pull testing
- Structural stress testing
- Tie Downs and Stingers