



Crosby[®]

**Load Monitoring
Tug & Salvage
Operations**

Crosby Straightpoint load monitoring systems are ideal for use in monitoring line forces when towing and salvaging vessels offshore.

Crosby Straightpoint provide all that you need to prevent heaving load lines that are exceeding their maximum tension limits during pulls.

Their loadlink and load cell (dynamometer) products have been put through rigorous testing regimes and meet the high standards of many globally recognised industry bodies such as ASME, DNV-GL, ATEX, and many more.

They have also developed them to be used with a wide range of industry standard lifting shackles and equipment.

The RadioLink plus (RLP) load cell is constructed using aircraft-grade aluminium, making it light and durable, and finished with an anodised coating that helps it to reach the NEMA6/IP67 environmental protection by resisting corrosion.

This is especially essential in order to prolong the lifespan of the product by protecting it from the wet, salty, and rough handling conditions out at sea.

Even to the most prepared and highly capable tug vessel seamen, who are working in an offshore environment, open water conditions can suddenly become extremely hazardous to work within.

During a storm, for example, a tug pulling a vessel via a metal hawser lines, would be buffeted about and these extra forces could cause the line's operational limits to be exceeded.

If the hawser line snaps and recoils, there is a possibility that any crew caught in the "snap-back zone", where the resulting backlash can whip back at ferocious speeds, could be badly hurt or fatally injured.

Having a tension monitoring system incorporated, will provide constant real-time readouts of the forces prevailing on the line. If the tension rises to dangerous levels then the appropriate reactions can be carried out immediately to lessen the risks.



Crosby Straightpoint's products can be essential elements to your line pulls by helping to lower the dangers associated with them

Tug and Towage

During a tow of a vessel by a tug, if either vessel loses control (through mechanical failure or being under the influence of strong water currents), one, or both, could be capsized from the line being bent and pulled around the stern.

The hydraulic towing winch system is an essential piece of machinery on a tug boat and needs to be kept operational. If control of the metal cable attached to the winch is lost, then substantial damage may be caused to the system from the mechanical strain inflicted upon it. The financial costs to fix it would be an unnecessary burden that could quite easily be avoided if an RLP or load pin was attached near the winch's break stay.

When tug boats are not pulling other vessels, they can also perform bollard pull tests, as a service to the port they are based at. There are two main purposes to carry out this task, firstly to test the maximum pulling capacity of the tug boat to measure its current performance, and secondly to test the bollard's integrity. This is in order to determine if it is still able to securely moor vessels at the capacity it was originally designed to hold.

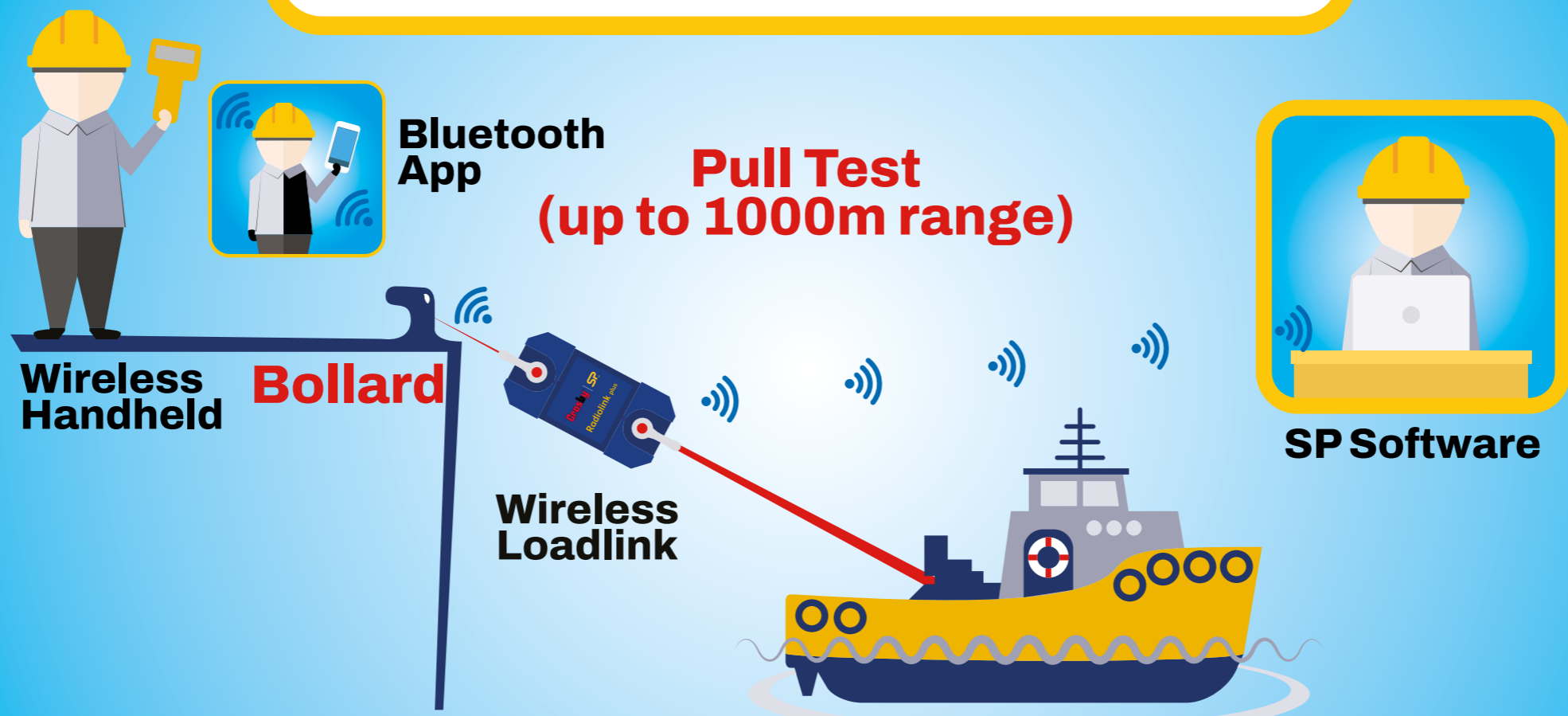
Crosby Straightpoint's RLP load cells are ideal for use in these tests, and when linked into as part of the hawser line (beyond the bridles and pendant), it can allow the tug boat operatives to monitor the tension forces, from a safe position, via the wireless connection to the Handheld Plus display (SW-HHP).

The person in charge of the pull test will be able to remotely monitor from up to 1000m away, preventing injury from any snapped lines or bollards that break away from their foundations.

Salvage

Load cells can be used to save stricken wrecks that are either still afloat or have sunk below the surface of the water.

To the resulting ship/vessel casualties, which need to be recovered or salvaged, even the process of rescue is fraught with operational difficulties and hazards that have to be well managed to achieve operational success.





Kito Crosby is the global leader of the lifting and securement industry it pioneered, and for which it continues to set the quality standard. With global engineering, manufacturing, distribution, and operations, the company provides a broad range of products and solutions for the most demanding applications. Kito Crosby's people, products, solutions, and services have innovated the lifting and securement industry for more than 260 years.

Together we lift and secure the world today, for a safer, stronger, and more productive tomorrow. Our iconic brands include Kito, Crosby, Harrington, Gunnebo Industries, Peerless, and eepos.

kitocrosby.com



123 Proxima Park, Houghton Avenue, Waterlooville, Hampshire, PO7 3DU, UK · Tel: +44 (0)2392 484491
Industriepark B26, 2220 Heist-op-den-Berg, Belgium · Tel: 0032 15 75 71 25
2801 Dawson Road, Tulsa, OK 74110 · USA · Tel: +1 (918) 834-4611

kitocrosby.com/straightpoint · sales.sp@kitocrosby.com

