



**CLIENT:** IHC

**PROJECT:** Lift-Rite Facilitates Successful Weighing of Subsea Vehicle for IHC Using Precision Load Cells

## CASE STUDY

### PROJECT OVERVIEW:

Lift-Rite recently collaborated with IHC, a leading provider of maritime technology, to successfully complete the weighing of a subsea vehicle. This project required precise measurements to ensure the vehicle met all necessary specifications before deployment. Leveraging our expertise in load management and measurement, Lift-Rite provided and installed a set of precision load cells, enabling accurate and reliable weighing of the subsea vehicle.

### CLIENT REQUIREMENTS:

IHC approached Lift-Rite with a critical requirement: to accurately weigh their subsea vehicle to confirm it was within the required weight parameters for safe operation. The accuracy of this measurement was crucial, as it would directly impact the vehicle's performance and safety during subsea operations.

To achieve this, the project required:

- **Precision Load Cells:** High-accuracy load cells capable of delivering precise weight measurements under challenging conditions.
- **Expert Setup and Calibration:** Professional installation and calibration of the load cells to ensure accurate and consistent results.
- **Support During the Lift:** On-site support to assist IHC in lifting the vehicle onto the load cells and monitoring the weighing process.

### LIFT-RITE'S SOLUTION:

Understanding the critical nature of the task, Lift-Rite provided IHC with a set of eight, 100t load cells offering a total capacity of 800t. The bespoke display – which is calibrated annually - is specifically designed for heavy and precise measurement tasks, showing the load on each individual load cell as well as the total combined load across all. Our solution included the following key components:

- 1 **Supplying Precision Load Cells:** Lift-Rite supplied IHC with a set of calibrated load cells, each capable of providing accurate measurements of the vehicle's weight. These load cells were chosen for their reliability, durability, and ability to maintain precision under the significant load of the subsea vehicle.
- 2 **Expert Installation and Calibration:** Our team of experts handled the installation of the load cells, ensuring they were correctly positioned and calibrated to provide accurate readings. This step was crucial to ensuring that the weighing process would yield precise and reliable data.
- 3 **On-Site Support During the Lift:** On the day of the operation, Lift-Rite provided on-site support to oversee the lifting of the subsea vehicle onto the load cells. Our team worked closely with IHC to ensure that the lift was executed smoothly and safely, with real-time monitoring of the load cells to ensure accuracy throughout the process.



### EXECUTION AND OUTCOME:

Once the setup was complete, IHC lifted the subsea vehicle onto the load cells, with Lift-Rite's team carefully monitoring the entire process. The load cells performed flawlessly, providing precise weight measurements that met IHC's stringent requirements. The successful weighing of the subsea vehicle was completed on schedule, with all data accurately recorded and verified.

### KEY SUCCESS FACTORS:

The successful completion of this project can be attributed to several key factors:

- **Precision Equipment:** The load cells supplied by Lift-Rite were of the highest quality, ensuring accurate and reliable measurements.
- **Technical Expertise:** Lift-Rite's team brought extensive experience in load management, ensuring the correct installation, calibration, and operation of the load cells.
- **Collaborative Approach:** Close collaboration with IHC allowed for a seamless operation, with both teams working together to ensure the project's success.

### CONCLUSION:

Lift-Rite's successful weighing of the subsea vehicle for IHC demonstrates our ability to provide highly accurate measurement solutions for complex maritime projects. By supplying and expertly managing precision load cells, we ensured that IHC received the precise data needed to move forward with their subsea operations.

This project not only underscores Lift-Rite's technical expertise and commitment to quality but also highlights our ability to meet the specific needs of our clients with tailored solutions. We look forward to continuing our partnership with IHC and other industry leaders, providing the critical support needed for their most challenging projects.

### Find out more about us:

Lift-rite Engineering Services Ltd, Benbecula Group – Walker Site, Wincomblee Road Walker, Newcastle upon Tyne, NE6 3QS, UK

[sales@lift-rite.co.uk](mailto:sales@lift-rite.co.uk) | +44 (0)191 234 3366 | [www.lift-rite.co.uk](http://www.lift-rite.co.uk)