



> Case study

Portable deployment thanks to **PORTA**BASE

COMPANY

EM&I Alliance

DATE

2021

LOCATION

Offshore

PRODUCT

TDAVIT & PORTABASE
Counterbalance



Deploying Remotely Operated Vehicles [ROVs] from offshore oil and gas installations just got considerably easier for repair and maintenance specialists EM&I Alliance – thanks to a REID **TDAVIT** and **PORTABASE** Counterbalance combination.

The background

EM&I provides repair and maintenance services to the oil, gas and renewable energy industries. The company regularly launches subsea ROVs and ancillary equipment from offshore installations and lowers them up to 100ft below the surface to carry out inspection and repair work via an umbilical cord.

The challenge

With an ROV and ancillary equipment weighing around 330lb, EM&I typically used temporary scaffolding to provide an anchor point for a lifting and lowering arm. This could be difficult and time consuming to assemble, as well as being heavy and bulky to transport and move around the rig or platform.

The company wanted a flexible lowering solution which was light and portable enough to be transported by helicopter or supply vessel, but which still had the necessary goods lifting capacity to accommodate the weight of the ROV. And, because it would be used in some of the UK's most extreme environments, it also needed the equipment to be durable and corrosion resistant.

The solution

EM&I Alliance approached REID Lifting for a cost-effective solution and we recommended a double winched **TDAVIT** and **PORTABASE** Counterbalance combination with a 1320lb goods capacity. Supplied by our channel partner LHR Marine UK, this is lightweight and practical, easy to transport and assemble on site and overcomes the problem of how to anchor a **TDAVIT** when no fixed socket is available.

The **TDAVIT** has a sheave at both ends of the beam for attaching the winch rope or cable. It offers a 47" reach and an allowable rotation of 270°, which means it can easily launch and retrieve an ROV from a platform into the sea.

Crucially, the **TDAVIT** is paired with a REID ANSI compliant lightweight and portable **PORTABASE** Counterbalance. With just five components and a simple folding weight basket which takes easy to handle 44lb weights, it can be assembled in just a few minutes with no need for any specialist tools. Integrated swivel locking castors make it easy to maneuver around the rig and adjustable feet make it safe to use on uneven surfaces.

Both elements are manufactured by REID from anodized and powder coated aluminum for maximum corrosion resistance.

The feedback

David Mortlock, Chief Technical Officer, EM&I Alliance: We have been really impressed by the ease of assembly and usability of the **TDAVIT** and **PORTABASE** Counterbalance combination. We would certainly buy more for similar offshore work.

Get in touch to find out how we can help with your lifting and lowering requirements:

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