



HYDRO-LEK
REMOTE HANDLING SPECIALISTS
A SAAB SEAEYE COMPANY

Hydro-Lek Case Study

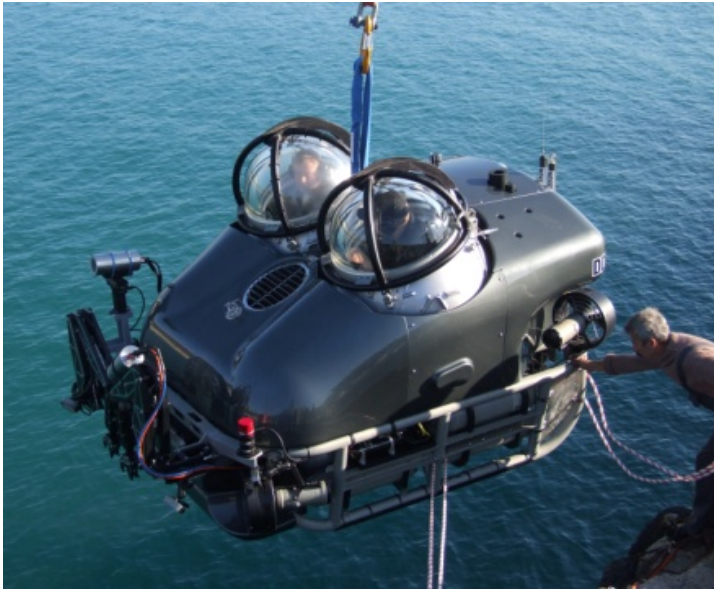
Four and six-function manipulators deployed on manned submersibles

Hydro-Lek have delivered four HLK-RHD 4 (4-function) manipulators and four HLK-CRA6 (6-function) manipulators to Canada-based submersible manufacturer, Nuytco Research Ltd, as part of their multiple contracts to deliver eight DeepWorker class manned submersibles to oil and gas contractors and naval groups.



Hydro-Lek Ltd

Specialists in remote handling for the nuclear, subsea and defense industries.



Nuytco's Dual DeepWorker submersible with 2 Hydro-Lek CRA6 arms

The deliverables include Single DeepWorkers, each of which is fitted with 1 HLK-CRA6 and 1 HLK-RHD4 manipulator system and Dual DeepWorkers, each of which is fitted with 2 HLK-CRA6. The manipulators were supplied as complete systems including a bespoke Hydro-Lek valve pack, power pack, hoses and fittings.

Hydro-Lek have been supplying Nuytco with highly dexterous robust manipulators for a number of years for use on their range of DeepWorker series of 600 metre and 1,000 metre depth-rated micro submersibles, in both single pilot and pilot + Passenger configurations. DeepWorkers have been used all over the world for scientific, survey, construction, oilfield, and tourism work.

Each manipulator was supplied as a complete system including a bespoke Hydro-Lek valve pack, power pack,

HLK-CRA6 six function Manipulator



With a lift capacity of 30kg, the Hydro-Lek HLK-CRA6 is a long reach, lightweight 6-function arm and incorporates a continuous jaw rotate assembly and four 30mm bore hydraulic cylinders.

Weighing just 14 kg in water, it is compact and designed to fit into smaller submersibles for collecting sea bed samples but can also be used

"The Hydro-Lek System is a great fit for our manned submersibles. The success of the DeepWorker is based on its light weight and ease of operation. Hydro-Lek manipulators give the DeepWorkers a work class punch without compromising payload. Customer support has been great, allowing us to come up with innovative integration solutions"

Phil Nuytten, President of Nuytco Research Ltd.

HLK-RHD4 four function Manipulator



The HLK-RHD4 is rugged but lightweight 4-function manipulator capable of lifting 90kg at 140 Bar and incorporates a continuous jaw rotate assembly and two 35mm bore hydraulic cylinders.

Weighing just 30 kg in water, it is often used for its powerful grab ability as well as its dexterity.

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