

IHC Engineering Business NATO Submarine Rescue System



Description

EB's extensive track record in specialist handling systems includes the design and manufacture of the Portable Launch and Recovery System (PLARS) for the NATO Submarine Rescue System (NSRS). The PLARS, built for Roll Royce, forms a vital part of the high specification emergency response system. It is air portable and intended for mobilisation onto a wide range of vessels within 18 hours. Diverless recovery and Sea State 6 operations are also possible using this innovative system.

The tailored PLARS is a simple and elegant A-Frame design offering a wide angle of movement using a single set of hydraulic cylinders. In addition to its advanced operational capabilities, it is designed to provide a long and reliable service life and minimise through life operational costs by careful design and high quality construction. EB continues to provide proactive Original Equipment Manufacturer (OEM) support of NSRS operations.

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Overview

Portable Launch and Recovery System (PLARS) for the NATO Submarine Rescue System (NSRS)

Client: Rolls Royce

Project Duration: 2004-2008

Features

- 30t SWL
- 5m Hs operating limit
- 150 degrees of gantry movement
- Air portable by 7 ISO format loads
- Diverless recovery
- Rapid mobilisation onto vessels of opportunity

Benefits

- Wide weather window for operation
- Worldwide operation
- Rapid response capability
- Transfers personnel under pressure from a crippled submarine to a decompression and treatment facility
- Tailor-made solution



Wide Angle Linkage

The system includes a wide angle linkage allowing the A-frame to be extended inboard and outboard, providing 150 degrees of gantry movement using a single set of hydraulic cylinders.



Air Portable

The A-frame and associated equipment are packaged into seven air portable ISO format loads, which allow the system to be loaded and transported by air around the world.



Rapid Mobilisation

EB has designed a PLARS which can be rapidly mobilised onto a wide range of vessels with the ISO format packages providing the base structures together and sets of configurable deck fixings.



Diverless Recovery

NSRS is the only system that can transfer personnel under pressure from a crippled submarine to a decompression and treatment facility without the requirement for divers in the water to connect the SRV to the PLARS during its recovery.