



SUBMARINE RESCUE ALLIANCE PRODUCTS

SUBMARINE INTERVENTION SYSTEMS

REMOTELY OPERATED VEHICLES (ROVS)

ROV systems are available in a number of sizes and capabilities ranging from small observation to heavy duty, full work class vehicles, and are sized and equipped according to customer requirements.



ROV systems can be used for a variety of rescue and intervention missions including large area search and submarine localization, hatch clearance, ELSS pod posting, and submarine ventilation system connection. ROVs can be used in depths exceeding 6000m and can be outfitted with multi-axis manipulators, cable cutters, high pressure water jets, custom tooling, sensors and measurement devices, high resolution sonars and high resolution still and full motion video cameras.

ATMOSPHERIC DIVING SYSTEMS (ADS)

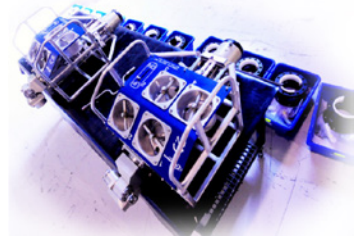
The OceanWorks HARDSUIT ADS includes a fully integrated Launch and Recovery Systems (LARS) and operational tooling. With over forty HARDSUIT systems delivered since 1986, ADS technology has evolved to the HARDSUIT Quantum ADS – a state of the art atmospheric diving system. The original HARDSUIT system is ideal for location and evaluation of a stranded submarine, establishment of communications, submarine escape hatch clearing, life support re-supply, and rescue system interface assistance.



The HARDSUIT Quantum ADS is available in 365m (1200ft) and 610m (2000ft) depth ratings. It has a perfect safety record and provides 3-D awareness, “eyes-on-the-scene” capability with diver equivalent dexterity. Rapid mobility, reduced maintenance, simplified training, reduced crew size/consumables, and simpler support vessel requirements make the ADS system an economical alternative to a conventional saturation diving system.

SUBMARINE EMERGENCY VENTILATION AND DECOMPRESSION SYSTEM (SEVDS)

The OceanWorks SEVDS is designed with custom submarine receiving fittings (SRF) and submarine adapter units (SAU), which are specifically designed for operation by divers, ADS and ROV systems. It is fully compatible with NATO STANAG 1450.



The SEVDS can be rapidly deployed to the scene and connected by the HARDSUIT ADS, ROV or conventional divers. It can be used to control DISSUB

depressurization and clear smoke, carbon dioxide or other toxic gas accumulation. These capabilities make the SEVDS an especially effective tool in stabilizing the internal environment and extending the life of survivors while the rescue system is mobilized to the scene.

EMERGENCY LIFE SUPPORT SERVICES (ELSS)

ELSS pods are standardized in accordance with STANAG 1391 to fit the escape tower of NATO submarines. Alternate pod configurations have also been made for nonstandard applications. The pods are transferred individually into the DISSUB through a hatch or escape tower by the HARDSUIT ADS, an ROV or conventional divers. These pressure vessels carry food, water, medical supplies, oxygen candles, and CO2 scrubber materials essential to extending life while rescue assets are mobilized.





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