



DSAR Class Submarine Rescue Vehicle



Introduction

The Deep Search & Rescue (DSAR) Class submarine rescue vehicle is the latest rescue submersible from JFD. The SRV design builds upon more than 25 years of submarine rescue operations.

JFD's submarine rescue vehicles are currently in operation with:

- The Republic of Singapore Navy
- The Republic of Korea Navy
- The Royal Australian Navy

Key features include:

- Integrated skirt
- Lightest in Class at 22.5 tonnes
- Optimised for transportability
- 60° mating capability



ROKS-DSRV-II in operation onboard the Republic of Korea's Cheong Hae Jin



DSAR-6 in operation onboard Singapore's Swift Rescue



DSAR Class Rescue Vehicle demonstrates ability to mate at 60°



Specification

Rescue Capability

Operational Endurance	> 12 hours
Emergency Life Support	> 96 hours
Maximum Mating Angle	60°
Rescue Payload	1,200 kg
Air Transportability	C17 or similar

DSAR Class submarine rescue vehicles have a typical maximum dive depth of 500m. If required this can be increased to 700m.

Principle Particulars

Length	9.6m
Beam	3.2m
Depth	2.7m
In Air Weight	22.5 tonnes, in 500m configuration
Main Propulsion	2 x 10kW electric
Auxiliary Propulsion	4 x 3kW hydraulic

Electrical System

Battery System	Fully-redundant Lithium Polymer
System Voltage	120V / 24V with 24V emergency supply
Navigation	Integrated Navigation Suite
Automation	Autopilot, Autodepth, Altitude & Heading Hold
Communications	Through-water audio & data
Logging	Video, comms and data logging for review and training

Design Standards

Classification	Classed to Lloyd's Register Rules and Regulations for Classification of Submersibles
Pressure Vessel Code	PD5500:2009 Specification for Unfired Fusion Welded Pressure Vessels
Mating Skirt	NATO ANEP/MNEP 85 compliant