

# S-80

The new generation of non-nuclear attack submarines

- Anti-Surface Warfare
- Anti-Submarine Warfare
- Long Range Conventional Submarine Enhanced with Anaerobic Propulsion
- Extremely low Acoustic Signature
- Reduced Crew
- Special Operations Forces

## MAIN CHARACTERISTICS

- Overall Length ..... 81 metres
- Maximum Beam ..... 11.6 metres
- Draught ..... 6.3 metres
- Hull Diameter ..... 7.3 metres
- Submerged Displacement ..... 2,965 tonnes
- Endurance ..... 50 days
- AIP mode endurance ..... up to 3 weeks
- Crew ..... 32 + 8 special forces
- Surface Speed ..... > 10 knots
- Submerged Speed ..... > 19 knots

## MISSIONS

- Anti-Surface Warfare (ASuW)
- Anti-Submarine Warfare (ASW)
- Special Operations Forces (SOF)
- Selective Land Attack
- Designed for Full Combat Group Integration in First Strike Action
- Shallow Water Operations
- Intelligence, Surveillance and Reconnaissance (ISR)
- Sequential Mine-laying
- Deterrence

## MAIN PERFORMANCES

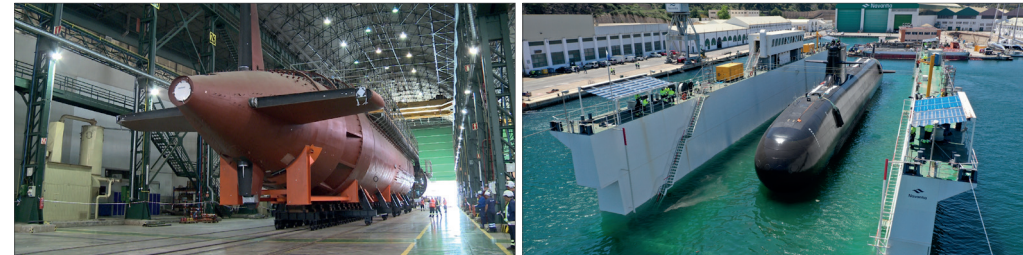
- Long Range Conventional Submarine Enhanced with Anaerobic Propulsion
- Extremely Low Acoustic Signature
- Excellent Manoeuvrability at Low Speed
- Negligible Restrictions on 'Manoeuvring Limitations Diagram'
- Highly automated Systems
- Cutting Edge and High Range AIP System
- Design for Low Life Cycle Cost

## VESSEL CONCEPT

- Single Hull
- External Shape Optimised for Extremely low Acoustical Signature
- Modular Design
- Reduced Crew: 32 Crew
- Stealth

## POWER PLANT

- AIP System (Ethanol Reformer + PEM fuel cell)
- 3 Diesel Generators
- Synchronous Electric Motor
- 2 Battery Compartments (2 x 180 elements each)



## COMBAT SYSTEM

- High Performance Passive Acoustic Detection
- High Performance Optronic Capabilities
- 6 Positive Discharge Tubes and Weapons Handling Capability for Missiles, Torpedoes and Mines
- Torpedo Countermeasures System
- Electronic Warfare System
- High Level of Integration for Operation and C4I Optimum Information Management
- State of the art Technology Based on OSA and Extensive Usage of COTS Elements
- External and Internal Integrated Communications System, with High Data Rate Satellite Communications capability

