

USV CHALLENGER

VESSEL SPECIFICATION SHEET



IMR, SURVEY AND ROV SUPPORT VESSEL

The USV Challenger (Uncrewed Surface Vessel) is a light intervention, inspection and survey support vessel owned by USV AS. Built by GONDAN Shipbuilders in Castropol, northern Spain, and launched in early 2025.

This vessel provides a low- to zero-emission alternative, equipped with an advanced on-board sensor system that will allow for efficiently carrying out subsea operations, by launching a WROV capable of submerging up to 1500 meters deep.

Designed for uncrewed operations within the Norwegian economic zone, the vessel will also be approved and certified for crewed operation in Trade Area 5 (Fartsområde 5). It features multiple layers of redundancy to enhance systemic resilience and minimize the risk of operational downtime.

KEY VESSEL FEATURES

- FULLY REMOTE OPERATED UNCREWED VESSEL
- MULTI-LAYERED REDUNDANT COMMUNICATION SYSTEM
- STATION KEEP
- ELECTRIC WORK-CLASS ROV - REMOTE OPERATED
- 1500M WROV UMBILICAL
- 490 KWH OF BATTERY POWER
- DAY-TIME ACCOMMODATION FOR 4 PERSONS IN TRADE AREA 5
- MARESS FUEL MONITORING SOFTWARE

CLASSIFICATION

DNV	1A EO Battery (Power) ER (SCR) Cyber Secure (Essential)
NMA	Cargo ship less than 24 meters Norwegian Ship Register (NOR) (Crewed) - Fartsområde 1-4 (Uncrewed) - Norwegian Continental Shelf (Trade Area North Sea and Baltic)

POSITIONING

STATION KEEP	Maritime Robotics DP and Joystic system
REFERENCE SYSTEM	1 x HIPAP 502 Kongsberg HL 3770 Furuno SC-70 Kongsberg Seapath 130-5 (MRU)

NAVIGATION

SITUATIONAL AWARENESS	Maritime Robotics SeaSight X (8 x day, 8 x LWIR cameras) Furuno FAR-1518 Radar Furuno DRS4D-NXT Radar FLIR M364c 8 x CCTV outside dome Cameras 34 x internal CCTV Cameras
NAVIGATION EQUIPMENT	2 x Simrad GC-80 Gyro Compass Simrad S-3009 Echosounder Simrad SAL R1A Speed Log 2 x Furuno Coastal ECDIS Tron AIS TR-8000 MKII Class A 2 x Deif WSS 750 wind sensor Sailor 7222 VHF DSC Class A GMDSS IHM Flexible-IP (VHF VoIP)

ROV

ROV	Electrical Work Class ROV in uncrewed Hangar
LAUNCH & RECOVERY	Evotec 6Te SWL electrical winch Automated L&R 1500m umbilical

ACCOMMODATION

4 pax - Day time
Pantry
WC
Shower
Pullman beds
Day room with Pantry

DIMENSIONS

LENGTH (LOA)	26.9 m
LENGTH BETWEEN PERPENDICULARS	22.4 m
BREADTH	7.5 m
DRAUGHT	2.3 - 2.4 m
LIGHTWEIGHT	284 Te
DEADWEIGHT	Approx. 60 Te

PROPULSION

PROPULSION SYSTEM	Hybrid Diesel-Electric with batteries
MAIN ENGINE	2 x Volvo Penta D16 MH IMO III, PM Generator – 525 ekW / 588 mkW
AZIMUTHS	2 x 375 kW SRP150 LFP SCHOTTEL
BOW THRUSTER	1 x 190 kW PumpJet SPJ57 RD L SCHOTTEL
AUTOMATION & CONTROL	e-SEAMatic BLUE - IAS / PMS / BMS 1000 VDC 3-split main switchboard Shore power connection
BATTERY	Total 490 kWh (5 x 98 kWh)

PERFORMANCE

SPEED MAX	10 kts
ECO SPEED	8 kts
L&R	3.0 - 4.0 m
SEASTATE	7 WMO Survivability

TANK CAPACITIES

FUEL	32 m ³
UREA	3 m ³
WASH FLUID	0.5 m ³
WATER BALLAST	17.3 m ³
WATER MIST	13 m ³

CONSUMPTION

TRANSIT 8 KTS	2.65 m ³ / day
STATION KEEP	1.20 - 1.92 m ³ / day
SHORE	0 m ³ / day
RANGE	Approx. 8 kts