



PRODUCT DATA SHEET

BlueRoc 1k - Type 1

Part No: DD-PNI-10525

DS-PDS-10018

Document State: APPROVED (Pre)

Date: 30.01.2026

Revision: A



Additional info;
Scan QR or visit www.depro.no

Prepared
JG

Checked

Approved
JG

Description:

The BlueRoc 1k – Type 1 is a complete, fully electric ROV system based on the Mission Specialist Defender ROV.

It includes a containerized Launch & Recovery System (LARS), a 1000 m umbilical winch, and an integrated electric Tether Management System (eTMS) with 350 m tether capacity.

Key Benefits:

- 100% electric design – no hydraulics, reduced maintenance, environmentally friendly
- Integrated LARS and eTMS – safe deployment and precise tether handling
- Compact and modular – fits in a 10 ft container for easy mobilization
- Scaled for demanding subsea and defense operations
- Remote-operation ready with Modbus TCP communication and optional RESTful API interface. The system includes self-hosted Graphical User Interface (GUI) for control, data monitoring and video display.
- Engineered for reliable performance in harsh offshore environments

Key Specifications

- Container: Standard 10 ft
- Dimensions: L: 3000 mm, W: 2438 mm, H: 2590 mm
- Weight: Approx. 5 mT (including winch and A-frame)
- SWL (Safe Working Load): 1,0 mT
- Outreach: 2,5m
- Umbilical capacity: 1000 m (ø10,5 mm), Lebus shells and electronic level wind (encoder-based, PLC-synchronized)
- eTMS capacity: 350 m tether, with live monitoring of tether payout and spooling control via software and integrated cameras
- Temperature range: –10 °C to +50 °C
- Input power: 3x400/440VAC, 50/60Hz, min. 100A
- Communication: RJ45 Ethernet @ min. 100 Mbps
- Operating modes: Constant tension, Active Heave Compensation (AHC)

Control & Monitoring

- System provides live monitoring and diagnostics, including:
 - Umbilical and tether length out (m)
 - Load monitoring (kN/tons)
 - Motor and brake status
 - Alarm history and fault diagnostics
 - Spooling monitored in software and by integrated cameras
- Local and remote operator controls with joysticks for deployment, winch, snubber, and latch
- Radio control available (same functions as local control, except reset of emergency stop)

Safety & Reliability

- Fail-safe brakes on drive motors
- Emergency stop (Cat 3), alarm lights and flashing signals during remote operation
- Overload and overtemperature protection
- CE Machinery Directive 2006/42 compliant

Design Codes

- DNV-ST-E271 (10 ft container)
- DNV-ST-E378 (LARS)
- DNV-ST-E273 (Portable offshore units / eTMS)
- NORSOK R-002 (safety for lifting equipment)

Delivery Scope

- Full Factory Acceptance Test (FAT) with client
- User and maintenance manuals
- Electrical and mechanical drawings
- 1-year recommended spare parts list
- Operator training (Depro A/S, Norway)
- 12-month warranty (extendable to 36 months with service program)



