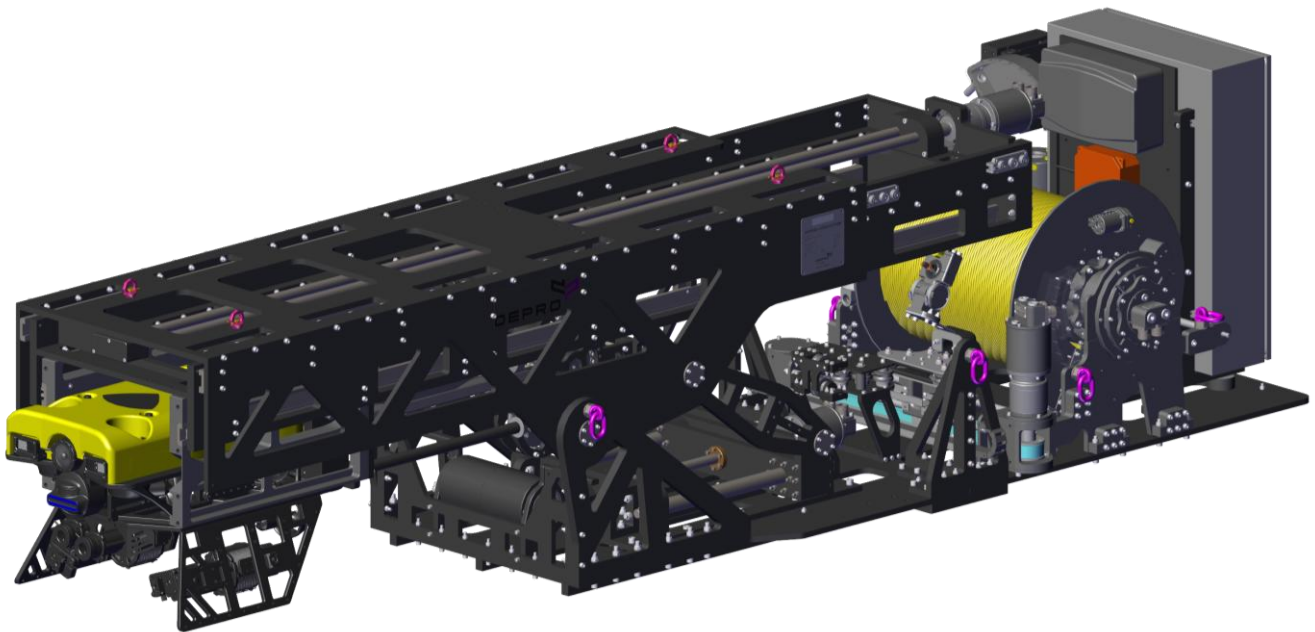




PRODUCT DATA SHEET

BlueRoc SLS - Type 1

DS-PDS-10023

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Revision: A



Additional info;
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Prepared
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ADT

Description:

BLUERO C SLS - Type 1 is a compact surface launch and recovery system for the VideoRay Defender ROV, designed for smaller vessels and USVs. The telescopic and tilting mechanism places the docking interface below the water surface for launch and recovery. The system uses the BLUERO C mechanical, electrical and software architecture.

Key Benefits:

- Compact, modular unit for installation on smaller vessels and USVs.
- Underwater launch and recovery with integrated tether handling.
- Adaptable deck mounting and web-based SLS control.

Key Specifications:

- Product no.: DD-PNI-10859. ROV: VideoRay Defender.
- Dimensions (L x W x H): 4210 x 1065 x 930 mm, in the shown position.
- System weight: approx. 970 kg; final configured mass to be confirmed.
- Telescopic reach: 3.5 m; stroke / outreach reference to be confirmed.
- Tilt range: 0-40°. Reported freeboard: below 1.9 m at 40°; geometry TBC.
- Maximum handled ROV mass: 150 kg, including payload; TBC.
- Input supply: 100-240 VAC, 50-60 Hz; phase arrangement TBC.
- Reported power input: nominal 1.5 kW; maximum 3 kW.
- Reported supply current: 32 A at 100-110 VAC / 16 A at 230-240 VAC.
- Tether: 500 m nominal; 1000 m option under engineering assessment.
- Sea state, launch/recovery and ROV operation: 4, provisional.
- Lateral flow input: 4 knots (side forces); operating limit TBC.
- ROV depth input: below 1000 m; actual range depends on configuration.
- Temperature range: -10 °C to +45 °C.
- Enclosure rating: IP56; component scope and subsea ratings TBC.

Preliminary engineering input. Sea state scale, wave height/period and vessel motion limits remain to be confirmed. Electrical ratings require confirmation for the complete configuration. TBC: to be confirmed.

Control & Monitoring

- SLS control through a web interface, hosted in the control cabinet.
- Defender is currently controlled through Remote Desktop to the ROV PC. PC location, network capacity and latency limits remain to be confirmed.
- Communication issues are reported at 500 m tether length. The 1000 m option requires fibre-optic and conductor sizing assessment.

Safety & Reliability

- Hardware emergency stops are available locally on the vessel. Remote stop is currently software-based.
- A watchdog stops the SLS on communication loss. Defender stop behaviour and recovery after loss of power or communication remain to be resolved.
- Deck mounting is adaptable. Deck loads, moments and centre-of-gravity references require vessel-specific verification.

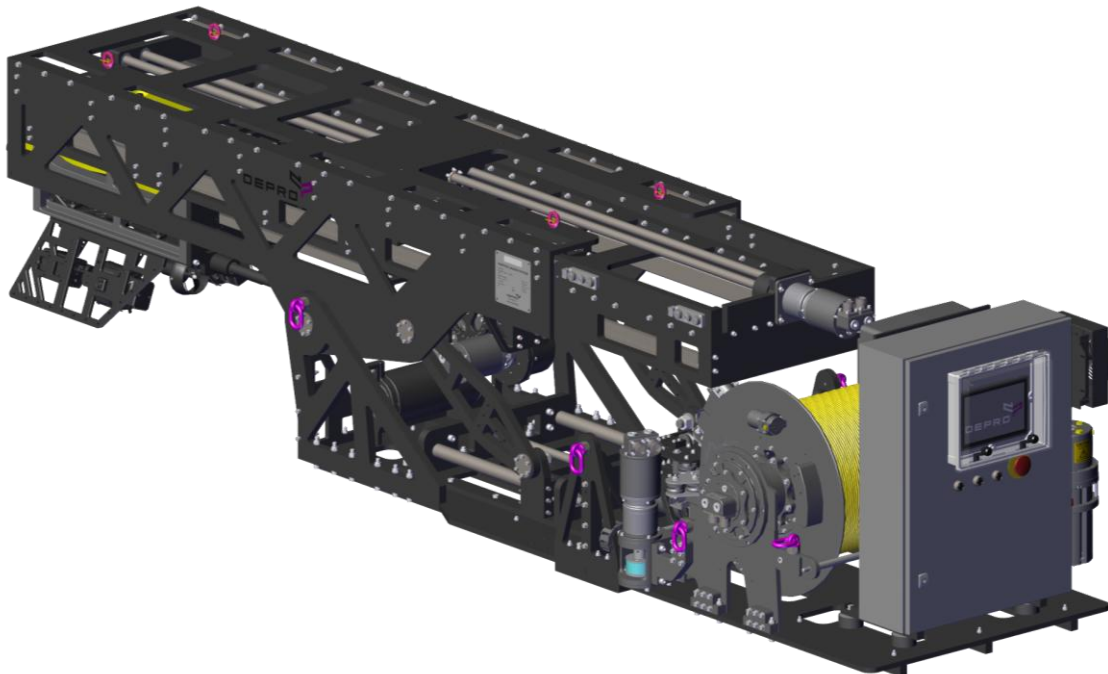
Design Codes

- Applicable standards, conformity documentation and inspection scope are to be confirmed for the SLS configuration.

Delivery Scope

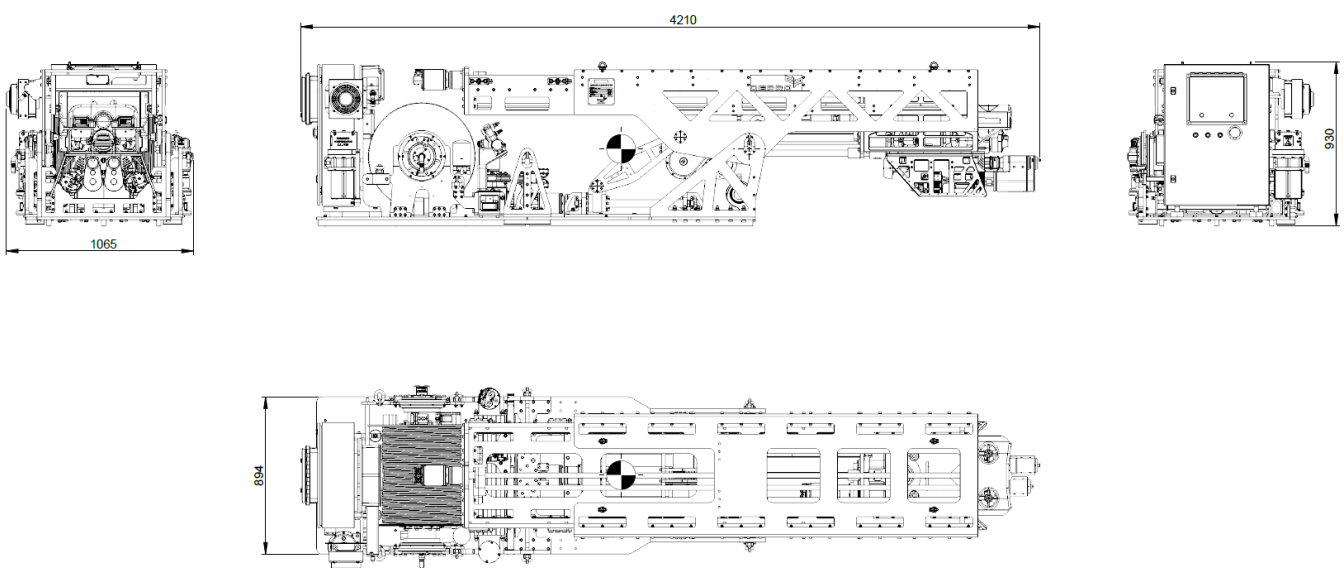
Proposed scope, subject to agreement:

- SLS unit with selected tether configuration and Defender interface.
- User manual, electrical/mechanical drawings and interface documentation.
- Agreed factory acceptance testing and vessel integration checks.
- ROV, sensors, spare parts and operator training as specified in the order.





Illustrative launch configuration



General arrangement - DD-ASM-10301, rev. A.1