

Schilling Robotics

Electric Heavy Duty (eHD) ROV

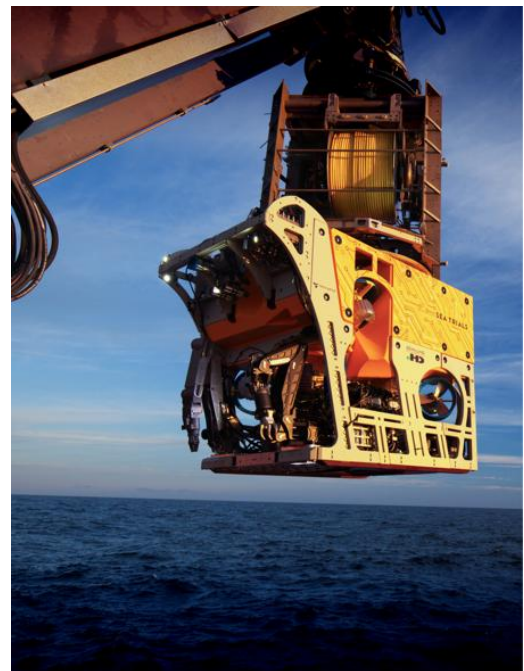
A hybrid platform engineered for consistent performance in real-world subsea conditions

The eHD Remotely Operated Vehicle (ROV) System is a high-performance, heavy-duty work-class ROV built on a hybrid architecture. It combines electric propulsion for performance and reliability with hydraulic work capability to maintain full compatibility with existing tooling and infrastructure. An advanced power management system maintains stability under variable loads.

Based on the proven HD platform and available in 3 km to 6 km depth ratings, the eHD delivers high bollard pull, precise station keeping, and strong auxiliary performance for inspection, maintenance, and repair (IMR) work, construction support, and intervention operations, including sustained forward speeds of up to 4 knots in water temperatures up to 32° C.

Key Features and Benefits

- High bollard pull and transit speed from direct-drive electric thrusters
- Stable load sharing through advanced electric power management
- Precise station keeping and controlled flight performance
- High payload capacity for heavy-duty subsea operations
- Dual hydraulic pumps with dedicated circuits for manipulators and tooling
- Compatibility with existing HD topsides, TMS, and handling systems
- Modular architecture simplifying maintenance and tooling integration
- Support for predictive maintenance to reduce operating costs
- 60-minute modular maintenance and repair
- Integrated shore-to-vessel and vessel-to-vessel remote piloting capabilities



The eHD ROV System is designed for demanding subsea tasks requiring high thrust, stable maneuvering, and substantial auxiliary hydraulic capability. Electric propulsion enables efficient power delivery while meeting or exceeding conventional hydraulic work-class performance for bollard pull and speed. The system supports a wide range of hydraulic and electric tooling, manipulators, and sensor payloads.

Specifications	
System power	Outperforms 200 hp hydraulic systems in all use cases
Docking Interface SWL	9,700 kg
Through-Frame Lift	3,000 kg
Weight in Air	4,100 kg
Dimensions	2.9 m x 1.7 m x 2.0 m
Payload	250-450 kg
Flight Performance	
Fwd / Aft / Lat Bollard	1,250 kgf
Vertical Up Bollard	1,075 kgf
Fwd / Lat / Vert Speed	4.0 / 3.0 / 3.5 kts
Station Keeping	<5 cm
Equipment Fit	
Manipulators	Any Schilling model; electric manipulator ready
Cameras	SD and HD options; industry IP cameras supported
Valves	(14) 8 lpm, (2) 32 lpm, (1) 160 lpm
Tooling Support	
Tooling Circuit Max Flow	125 lpm (at 207 bar)
Manipulator Circuit Max Flow	30 lpm (at 207 bar)

Typical Applications

- IMR
- Heavy-duty construction support
- Subsea intervention and tooling operations
- Survey and inspection with integrated payloads

Notes

Performance figures are indicative and subject to configuration, power supply, and environmental conditions.

- System weights and dimensions may vary based on selected options and tooling packages.
- Detailed technical specifications, dimensions, and interface definitions available upon request.

Related Links

- + [TechnipFMC.com](https://www.technipfmc.com)
- + [Schilling Robotics](https://www.schillingrobotics.com)



This document is intended as a preliminary specification sheet for reference only and may be refined as system configuration is finalized.