

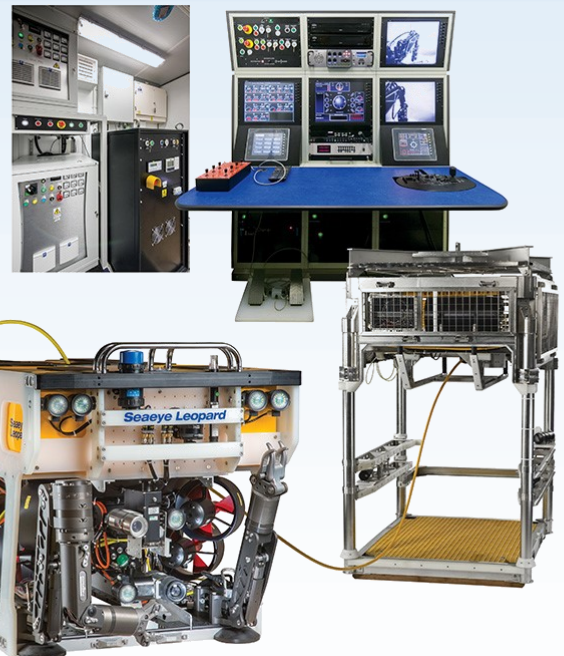
The high power compact electric work class vehicle.

The Seaeeye Leopard is designed to offer operators an exceptionally powerful electric work class ROV in a compact chassis. Developed from the highly successful Panther XT-Plus, the Seaeeye Leopard produces an impressive half tonne of forward thrust, with fifty percent more payload, three times the tooling power and double the depth rating, whilst maintaining the same deck footprint.

Equipped with Seaeeye's iCON™ intelligent control system, this 2000m work ROV benefits from an enhanced user interface, simple network architecture, exceptional handling and power with advanced autopilots including pitch and roll stabilisation, built in diagnostics, redundancy and remote internet access for upgrades and technical support. Capable of accommodating Schilling Orion or Hydro-Lek heavy duty manipulators, as well as a wide range of work class sensors and interchangeable tooling equipment, the Seaeeye Leopard is ideally suited to work tasks including drill support, pipeline survey, exploration, salvage, cleaning and deep water IRM.

System Overview

- The Leopard ROV is powered by a floor-standing high voltage, high frequency, power supply unit. Additional power supplies are available for tooling and TMS options.
- Pilot Control Units include touch screens running the graphical user interface (GUI) for vehicle power and control; system diagnostics including remote access for technical support; flight screen monitors that display data and video transmitted via Fibre Optic multiplexers and a CWDM; surface control units for remote control of the PSUs and a hand control unit for ROV.
- Additional surface equipment options include TMS foot pedals for the optional TMS, tooling hand control units, video matrix switchers and recording systems.
- ROV rated to up to 2000m fitted with eight horizontal and three vertical SM9 thrusters supplied with 500 Volts DC, an electronics pod with fibre optic multiplexers and a CWDM, up to eight LED lights on four channels, cameras, a depth sensor, and a compass pod with integrated Magneto-resistive compass, accelerometers and gyros with pitch and roll outputs for vehicle auto heading, depth, pitch and roll. Auto altitude is available as an option when an altimeter is fitted as well as station keeping with a DVL fitted.
- Standard vehicle interfaces include connections for six cameras, twelve auxiliaries including one Ethernet connection, a copper signal core for CP reference, and a Transponder Trigger



Main Particulars:

Depth rating	2000m
Weight	1200 Kg (excluding TMS and tooling)
Power requirements:	
Input Supply	380-480 VAC 3-phase, 100A, 50/60Hz
Total Power	105 KVA (excluding LARS) with LARS 150 KVA

Dimensions and performance :

Length	2150 mm
Height	1174 mm
Width	1160 mm
Launch weight	<1200 kg
Forward speed	>3.5 knots
Thrust forward	493 kgf
Thrust lateral	377 kgf
Thrust vertical	225 kgf
Payload	280 kg (105 kg after manipulators fitted)
Through-frame lift	1000 Kg
Propulsion	11 x Vectored SM9 Thrusters
Auto Functions	Alt, depth, pitch, roll
Fibre optic system	GigE – fibre mux for ROV control and data, 8 channel CWDM for 100% redundancy and 4 spare wavelengths
Client fibre mux	8 x composite video, 16 x RS232/485/422, 50 Mbs Ethernet
Fault tolerant	Auto adapting in the event of device damage or failure

Dimensions and performance :

TMS08	Fitted
Caged TMS with 200m 20.6mm tether capacity	Fitted
Cage adjustment for tooling skids and survey equipment	Fitted

Launch and Recovery System:

Hydramech HH97 LARS	Fitted
5000 Kg max SWL line pull	Fitted
380/415 – 440/480 V 50/60 Hz	Fitted
Flow at 60Hz 130 lpm @ 250 bar	Fitted
Focal slipping unit with triple pass single mode fibre optics	Fitted

Equipment and Tooling:

Tritech Super Seaking Sonar Obstacle avoidance sonar	Fitted
Tritech 701-40 series Bathy system with PA500 Altimeter	Fitted
Schilling Orion 7P Manipulator	Fitted
Schilling Orion 4R Manipulator	Fitted
6 x LED lights @ 3250 Lumen each	Fitted
Pan and tilt unit	Fitted
4.5 kW Brushless DC HPU	Fitted
4.5 kW Brushless DC water jet	Fitted
3-Phase 15 kW HPU 30 lpm @ 210 bar	Fitted
Gig-E, HD Video	Optional
Pipeline wheel skid	Optional
Camera booms	Optional
CP System	Optional
Cutting equipment	Optional

Control Van:

20ft Split DNV 2.7-1 A60 Container with Control Cabin	Fitted
19" rack mount monitors	Fitted
16 x 16 video matrix switcher	Fitted
4 Channel Digital Edge Subsea Edge DVR HDD3	Fitted
Ocean tools video overlay	Fitted
Canford audio communications system	Fitted

Workshop Van:

20ft DNV 2.7-1 A60 Container workshop	Fitted
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