AL - RAIEDAH UNDERWATER LTD

شركة الرائدة تحت المائية المحدودة



WORK CLASS ROV SEAEYE LEOPARD 1704

The Seaeye Leopard is designed to offer an exceptionally powerful electric work class ROV in a compact chassis. Developed from the highly successful Panther XT-Plus, the Seaeye 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.

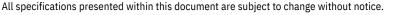
Equipped with Seaeye's iCON intelligent control system, this 1,000 m WROV benefits from an enhanced user interface, simple network architecture, exceptional handling and power with advanced autopilots including pitch and roll stabilisation, built in diagnostics, redundancy and remote internet access for upgrades and technical support.

Accommodating two Schilling Orion heavy duty manipulators, as well as a wide range of work class sensors and interchangeable tooling equipment, the Seaeye Leopard is ideally suited to work tasks including drill support, pipeline survey, exploration, salvage, cleaning and deep water IRM.



HIGHLIGHTS

- Operational depth of 1,000 m.
- Capable of working in currents up to 3 Knots.
- System includes LARS with caged type 8 TMS (tether length of 200 m).
- Pay load capacity of 205 kg
- ▲ Single Mode fibre optic system (Ethernet, 8 channel CWDM, 8 x composite video, 16 x RS232/485/422 data
- channels). iCON, SAAB's intelligent control and power distribution system.
- Station keeping, cruise, transit and standoff control.
- Full set of optional survey and tooling skids.
- Variety of tooling options.
- Small footprint, enabling operations to be conducted from small vessels of opportunity, fixed or floating platforms.





VEHICLE SPECIFICATIONS

Depth Rating:	1,000 m
Length:	2.150 m
Width:	1.160 m
Height:	1.174 m
Launch Weight:	<1,200 Kg
Forward Speed:	>3 knots
Forward Thrust:	500 kgf
Lateral Thrust:	377 kgf
Vertical Thrust:	225 kgf
Payload:	205 kgf
Through-frame lift:	1,000 kg

Propulsion:

11 vectored SM9 500v brushless DC Thrusters

Auto-Functions:

Heading Control Depth Control Pitch and roll Control Altitude Control

The system also has station keeping, cruise, transit and standoff control.

1.300 m

29 mm

Umblical/Main Lift

Umbilical Length: Umbilical O/D:

TMS (Seaeye Type 8)

1.792 m
1.491 m
2.75 mm
1.2 Tons
2,000 m
200 m
22mm
380-440V, 3Ф, 50/60 Hz, 250 kVA

SYSTEM DIMENSIONS AND WEIGHTS

LARS with Winch:

Length:	6.62 m
Width:	2.48 m
Height(to lift eye):	2.44 m
Weight:	23 Tons
A-Frame Outreach:	3.6 m

Control Cabin - DNV 2.7-1 offshore container, A60 rated:

Length:	6.1 m
Width:	2.6 m
Height:	2.6 m
Weight:	13 Tons

Workshop/Stores Cabin - DNV 2.7-1 offshore container, A60 rated:

2.6 m
2.6 m
2.6 m
10 Tons

EQUIPMENT FITTED AS STANDARD

Control System:

The Leopard operates on SAAB Seaeye's distributed intelligence control system, iCON.

Man Machine Interface (MMI):

The Leopard 1704 MMI comprises 6 main elements:

- Surface Power Supply Remote Control Interface
- TMS Control Interface
- TMS Foot Switches

Flight Screens

Two Touch Screens

Hand Controller

Chassis:

The extremely rugged polypropylene and stainless steel chassis has been designed to maximiser free water flow through the ROV. Materials and design are balanced to create an incredibly lightweight chassis, maximising strength and stiffness to support a 1Tethrough frame lift capability for tooling skids and rigid mountings for manipulators, TDUs, tools and sensors.

Vehicle HPU:

 1×4.5 kW brushless DC 'clean' HPU for manipulators

3-phase 15kW (20HP) 'dirty pack' HPU providing 30 l/min @ 210 Bar, mounted on removable tray with dedicated compensator and filter.

Manipulators:

1 x Schilling Orion 7P with 3.8" Gripper. 1 x Schilling Orion 4R with 7.8" Gripper.

Pan & Tilt:

1 x High torque, oil filled, pan & tilt platform. The unit can accept two cameras and lights.

1 x +/-90 degree camera tilt platform which accepts one camera and light.

Camera:

1 x Seaeye Black and White Camera 1 x Kongsberg Colour Zoom Camera.

Digital Video Recording System:

Digital video recording system (4 channel simultaneous recording), with video overlay for all channels.

Imaging Sonars:

1 x Tritech Super Seaking DST avoidance sonar

Depth Sensor:

1 x Electronic sensor accurate to +/- 0.1% FSD

Lighting:

The Leopard is fitted with six long-life LED lights (on four individually controlled channels).

• Multibeam Echo Sounder

• CP / UT Probes

• Soft Line Cutter

Underwater AHRS

Subsea Cleaning Tool

Emergency Systems:

1 x Strobe Light

OPTIONAL EQUIPMENT

Sensors/Equipment:

- Tritech Profilers
- 2D Real Time Sonar
- Doppler Velocity Log (DVL)
- Wire Rope Cutter
- Nut Splitter

Optional Skids:

- Wheeled skid with boom arms (c/w cameras/lights)
- Water Jetting/ dredging skid

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• Buoyancy skid

