

Work Class ROV Spread



Dive Works offers the Saab Seaeye 'Leopard' Work Class ROV. The 'Leopard' has Schillings 7 and 4 function manipulators and comes complete with Launch and Recovery System (LARS) and Tether Management System (TMS).

- **LARS (20ft x 8ft container foot print):**
Dimensions (in mm): 6056(L) x 2437(W) x 3510(H)
Weight: 19.5 tonnes.
- **CABIN: (20ft x 8ft container):**
Dimensions (in mm): 6058(L) x 2438(W) x 2743(H)
Weight: 13 tonnes.
- **Total equipment weight: 32.5 tonnes.**

The Seaeye Leopard is designed to offer an exceptionally powerful electric workclass ROV in a compact chassis. 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 iCONTM intelligent control system, this 2000m work class 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.

SPECIFICATIONS

Seaeye Leopard ROV	
Depth rating	2000 msw
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	205 kg (105 kg with manipulators fitted)

Note: Comprehensive Spares Package included.



EQUIPMENT INTERFACES

A wide range of standard or custom interfaces are available, in particular for:

- Cameras
- Manipulators, boom arms, cutters
- CP probe
- Sonar systems (obstacle avoidance, side-scan, multibeam, profiling)
- Scientific equipment (bathy, CTD, etc.)
- Emergency strobe
- Tracking system
- Tooling motor
- Auxiliary connections (RS485/RS232/Ethernet)

TOOLING

- Schillings 7 and 4 function manipulators
- Can accommodate 2 x 7 function Schillings Manipulators if required
- Vehicle can lift and remain level lifting 50kgs in 7 function arm at full reach (1.5m)
- 4.5kW Brushless DC 'clean' HPU for manipulators
- 4.5kW Brushless DC Water Jet or tooling brush motor option
- 3phase 15kW (20HP) 'dirty pack' HPU providing 30l/min @ 210Bar, mounted on removable tray with dedicated comp and filter for other tooling options including:
 - 4" capacity rotary disc cutter
 - 38-75mm Anvil cutter
 - Stanley Grinder
 - Tritech ZipJet, 2.5" Vortex Dredge
 - Class 1-4 torque tool (manipulator held) with Intelligent torque controller
 - AX/VX ring change out tool
 - Fluid Injection & Hot Stabs

SENSOR CAPABILITIES

- Up to 6 Cameras
- Electric Pan & Tilt (additional Tilt Unit option)
- 6 x 200W equivalent LED Lights (other lighting can be added)
- Standard Navigation Sonars
- Bathymetric Packages
- Tracking Transponder(s)
- CP, FMD, UT Probes
- TSS or Innovatum Pipe / Cable Trackers
- Wheeled Camera Boom Skid
- DVL, FO Gyro, SVP, CTD, PH meter etc
- Sidescan sonar, Sub-bottom profiler
- Reson, R2Sonic, Tritech, Didson or Imagenex Multi-beam Sonars

PROPULSION

Propulsion is delivered by 11 vectored SM9 500v brushless DC thrusters providing 6-axis control. This provides for active vehicle stability allowing much greater thrust to be introduced into the chassis.

The thrust vectoring algorithm can also accommodate multiple damaged thrusters whilst retaining normal flying characteristics.

PAN & TILT PLATFORM

The robust high-torque pan and tilt unit can accept two cameras and lights.

The pan and tilt angles are displayed graphically. An additional tilt platform can be added if required.

NAVIGATION

- Advanced vehicle autopilots for heading, depth, pitch/roll and altitude
- Station keeping, cruise, transit and standoff control options
- Software interfaces for additional third party sensors to augment vehicle navigation and control
- Adaptive autonomous vehicle mission software, using real-world data triggers

CABIN CONTROL

- 20ft X 8ft Container
- Weight approximately 13 tonnes
- Partitioned section for HV PSU's
- Safe Area Rated
- Lloyds Certified



TETHER MANAGEMENT SYSTEM

- Stainless Steel Frame
- Bailing Arm mechanism eliminates subsea slipping
- 200m tether capacity (20mm diameter tether)
- Adjustable height garage to accommodate ROV tool skids
- 2.85Te SWL (allows for ROV tooling / skid up to 400kgs in addition to standard ROV payload)
- Camera and light
- Driven by a brushless DC thruster
- iCON control system



LAUNCH AND RECOVERY SYSTEM

- Integrated A-Frame, Winch Skid and HPU
- 20ft x 8ft footprint for ease of transport and rapid mobilisation (TMS and ROV remain connected)
- Weight approximately 19.5 tonnes (including TMS & ROV)
- Folding front platform for additional deck space
- 25mm nominal main lift umbilical diameter
- Snubber included



