



RSL Adaptable Seaker ROV

Shown with Hydrolek Hydraulic Arm

Seaker Nuclear ROV

The Remotely Operated Vehicle is a Nuclear RSL Seaker based on a proven existing design which has operated in the challenging Sellafield environment. It is an open frame structure manufactured in Stainless Steel 316L.

Thrusters

Propulsion is supplied by four interchangeable thrusters. Two are mounted horizontally and thrust the vehicle forward, astern, and provide clockwise and anti clockwise direction. One thruster is mounted laterally and thrusts the vehicle port and starboard. The fourth thrusters is mounted vertically and thrusts up and down. The thrusters are easy to work on and the supplied manual carries work instructions for various maintenance procedures.

Cameras

There can be up to three cameras fitted to the ROV. One is fitted to a tilt unit and is the pilots' camera, another is fitted to the frame viewing forward and the third is fitted to view aft. All cameras are colour. Standard Cameras are housed in Stainless 316L or can be supplied in Acetyl (if final weight is a major consideration).

Tilt Unit

The tilt unit which carries the pilots' camera and light is housed in light weight Acetyl and is electrically driven from the surface console unit. The unit tilts 70 degrees up and 100 degrees down, however this footprint can be increased by minor adjustments.

LED Lighting

Three hi powered RSL LED lights are fitted to the vehicle. All can be dimmed. One light is fitted to the tilt unit, one forward and one on the rear of the vehicle. The light is extremely robust with a long life capability. They are extremely bright and should not be viewed directly with the human eye.

ROV Frame

316L stainless steel.
19mm seamless tube OD.
1.6mm ID.
Load tested.
Calculations carried out.
Certified lifting eye.

Syntactic Foam Buoyancy

High chemical resistance.
50M depth rating.

Divers Camera

Colour.
520 lines of resolution.
0.1 lux.
24vdc.
Auto/manual focus.
Subconn connector.

Additional Cameras

B&W
580 TV Lines of resolution.
0.0003 lux.
24vdc.

Fixed focus.

Stainless steel housing.
Subconn connector.

Lights

Hi power LEDs.
Approx 3000 lumens at face.
50,000 hrs life.
24vdc.
Stainless steel housing.
3 pin Subconn connector.

Thrusters

Stainless steel housing.
Radiation Probe
Acetyl housing.
Range up to 10Sv/hr