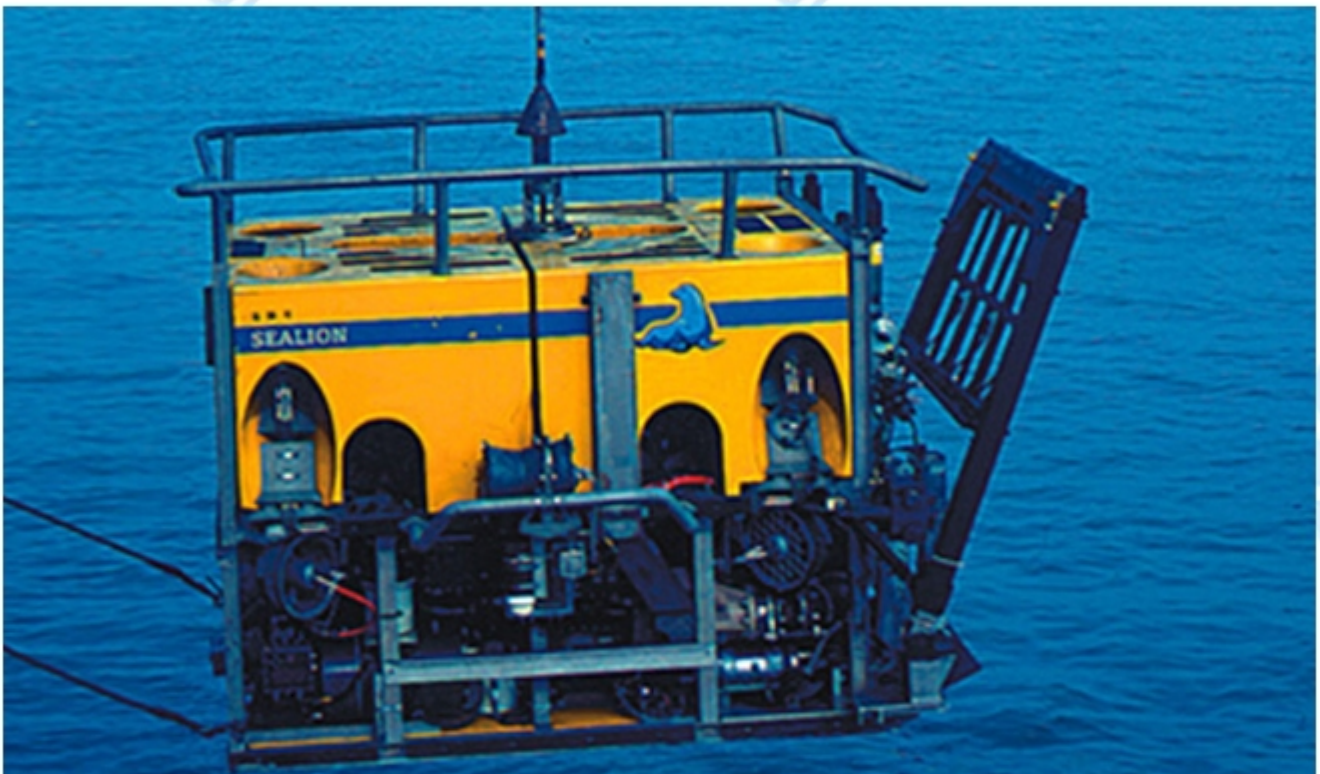




ROV Sea Lion



The subsea equipment ROV Sea Lion (Remotely Operated Vehicle) were manufactured by Perry Trittech Inc. to support submarine cable activities. The vehicles are able to provide submarine cable repair and post-lay inspection and burial services, with the maximum working depth of 2,500m.

Already powerful units at 200HP, Sea Lion I and Sea Lion II pack an even bigger punch on a superior power to weight ratio achieved through engineering innovations. Easily mobilised and deployed from traditional cable ships or ships of opportunity, Sea Lion can work in either free fly or tracked mode and provides flexibility, as well as reliability .

Sea Lion have carried out extensive burial works on many international cable networks, for example SMW3, China-US, APCN2 etc. They also provide cable maintenance services to the Yokohama Cable Maintenance Agreement.

GENERAL		
	Free Fly	Tracked
Length	3.22m	3.22m
Width	2.23m	2.94m
Height	2.51m	2.92m
Weight(in air)	5,700kg	6,550kg
Dive depth	2,500m	
Payload	500kg	
Propulsion	6 x 12"Horizontal thrusters & 4 x 12" vertical thrusters	
Speed	Free Fly	Tracked
Fwd/Aft	2.6knots	1.0knots
Lateral	2.0knots	-
Power Requirement	Maximum of 500kw, 380-480v, 60hz, 3 phase	

CONTRAL SYSTEM	
Telemetry	Pentium processor
Umbilical	Double armored with 6 single mode fibre optic channels, 3,300m length
Heading Control	Manual or automatic +/-1degree
Pitch Control	Manual or automatic to +/-2 to +/-6 degree
Depth Control	Automatic to +/-30cm over entire range

SURVEILLANCE EQUIPMENT	
Video equipment	One SIT , one black & white, four color cameras
Pan & tilt	Three PT2712 units and one tilt unit
Sonar	Mesotech 900d with 1071 upgraded head
Cable location system	TSS 440 and 350 dual track system
Altimeter	Kongsberg Simrad 807 Echo Sounder

TOOL PACKAGE	
Burial tool	Optimized for 0 to 50kpa
Depth of burial	1.5m
Burial speed	Free fly 100m/hr,tracked 200m/hr at 30kpa
Manipulators	Two Schilling Orion 7 functions arms
Cable cutter	Webbtool Hcv-100
Cable gripper	Slingby Engineering Ta-0017
Dredge tool	1m & 1.5m jetting tool
Dredge depth	1.5m
Product burial size	Jetting leg size 360mm

DECK EQUIPMENT	
Launch and recovery system	Dynacon umbilical winch, Dynacon A-frame and Dynacon dual 100HP hydraulic power unit
Working van	One 20'contral van, one 20'spares van and one 20" workshop