



ROV Specifications

Type	Open frame work class ROV
Dimensions	8' x 5' x 6'6 (L x W x H)
Weight in Air	6,000 lbs.
Depth Rating	20,000 ft. of seawater
System Power	190 KVA, at 380 – 480 VAC, 60 Hz, 3 f
Power	43 Hp
Umbilical	0.68 dia Triple armor EOM cable (Rochester PN A305321) 36,000ft. length for CURV, 12,000 ft. length for Deep Drone 2 spare Single Mode Optical Fibers
Umbilical Swivel	PMI load bearing Electro-Optical, pressure compensated
Topside ROV Voltage	3,400 VAC, 60 Hz
Through Frame Lift	4,000 lb. MAWL
Thrusters	Innerspace 1002B 2 Axial, 10 Hp, 2 Vertical 5 Hp (canted at 15° from vertical) 2 Lateral 5 Hp
Forward Speed	2.5 knots on surface
Bollard Pull	700 lb. (at the surface)
Vertical Lift	420 lb. (at the surface via thrusters)
Vehicle Payload	200 lbs. in seawater (at the surface) 100 lbs. at 20,000'
Syntactic Foam	34 lb/ft ³ (4" ceramic sphere aggregate)



ROV Specifications (con't)

Auto Controls	Heading ($\pm 2.0^\circ$), Depth ($\pm 2'$), Altitude ($\pm 1'$) Relative Geographical Position ($\pm 10'$ per hour drift)
Instrumentation	Sunwest SS300CTFM Sonar on vertical elevator Dual 400W Deep Sea Power & Light HMI Lights 4 ea. 250 Watt Halogen Lights Wide angle low light black and white video camera High resolution color video camera Insite Scorpio Digital still camera & strobe Sub Atlantic Electric Pan & Tilts (1 standard, 1 Optional) 1200 kHz RDI Doppler Velocity Log Watson Attitude & Heading Reference System (E304) Honeywell Electronic Compass (HMR3000) Simrad Altimeter Load release hooks with emergency timers (2 ea. 2,500 lb.) PRIZM Fiber Optic Multiplexer
Video Channels	8 channels total, 4 Spare
Data Ports	4 x RS-232, 2 x RS485, 2 x Ethernet
Spare DC Power Supplies	100 W switched outputs (4 ea. @ 12 – 24 vdc)
Hydraulics	10 Hp Main Supply (5 GPM @ 3000 psi)
Manipulators	2 ea. Schilling ORION 7R
Auxiliary Hydraulic Power	4 spare proportional functions at 4 GPM & adjustable pressure up to 3000 psi max