

ULTRA HEAVY DUTY (UHD) ROV Technical Data



Ultra Heavy Duty (UHD) ROV

- Closed loop controls provide precision operation
- Inertial Navigation System (INS) for precise navigation & positioning available
- Real-time diagnostics

The UHD ROV is optimized for efficient tooling and sensor interfaces with unlimited data or video channels that can easily be customized. This state-of-the-art ROV features an advanced control system with many closed loop functions, as well as specialized StationKeep™ software to allow operators to automatically maintain a position relative to the sea floor.

The control system also has a power management system that delivers power where required to preform ROV operations in extreme situations.



SPECIFICATIONS

ROV	
Classification:	Ultra Heavy-Duty Work Class ROV System (Generation II)
Payload:	661 lb / 300 kg
Through Frame Lift:	7,716 lb / 3,500 kg
HPU Motor:	200 SHP (shaft horsepower)
Depth Rating:	13,123 ft / 4,000 msw (optional 4,000 msw)
Main Hydraulics:	4,000 psi @ 63 gpm / 275 bar @ 238 lpm
Aux Hydraulics:	3,000 psi @ 33 gpm / 207 bar @ 125 lpm
Hydraulic Functions:	8 Station Proportional Valve Pack 3 Station High Flow Valve Pack
Telemetry System:	Digital Telemetry System (DTS) GB Ethernet
Maximum Speed	
Fore/Aft: 3.2 knots • Lateral: 3.2 knots • Vertical: 2.5 knots	
Bollard Pull	
Fore/Aft: 2,646 lbf / 1,200 kgf • Lateral: 2,646 lbf / 1,200 kgf	
Vertical Up: 2,205 lbf / 1,000 kgf • Vertical Down: 2,205 lbf / 1,000 kgf	

GENERAL

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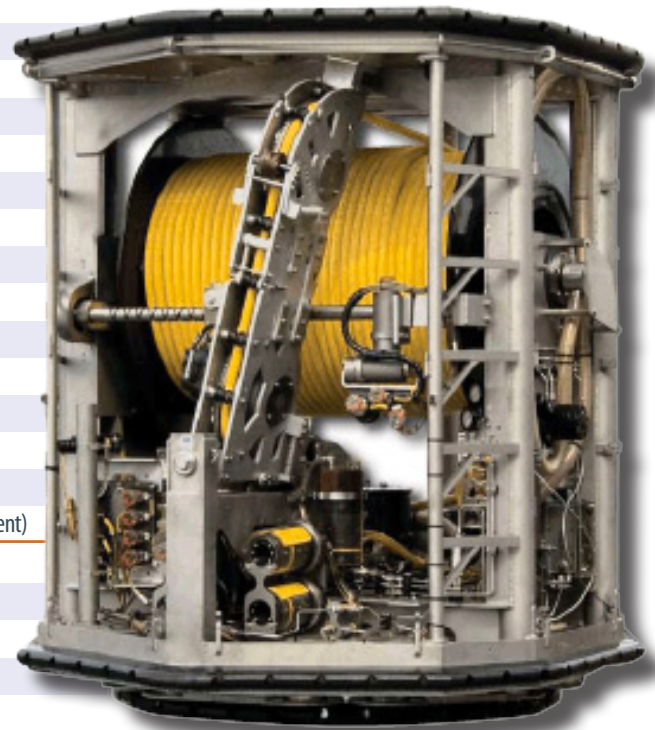
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ROV Technical Data



SPECIFICATIONS (CONTINUED)

GENERAL	Instrumentation	
	Depth Sensor:	Paroscientific, Digiquartz Series 800
	Heading/Attitude Sensor:	Fiber Optic, Ring Laser or MEMS
	Doppler Velocity Log:	RDI Workhorse Navigator 1200
	Sonar:	Kongsberg Simrad MS1171
	Cameras:	Insite or Imenco (HD available)
	Auto Control Modes	
	Heading:	$\pm 2^\circ$, 360° Range
	Depth/Altitude:	± 6 in / 15 cm
	Pitch:	$\pm 2^\circ$, +12/-5° Range
Roll:	$\pm 2^\circ$, $\pm 6^\circ$ Range	
StationKeep™:	3.9 in / 10 cm Watch Circle	
DEPLOYMENT	Manipulators	
	Port:	Atlas (7 function rate control)
	STBD:	Atlas (7 function rate control) or Titan 4 (7 function spatially correspondent)
	Tether Management System (TMS)	
	Type:	Top Hat
	Depth Rating:	13,123 ft / 4,000 msw
	Tether Line Pull:	220 lbf / 100 kgf Minimum
	Tether Line Speed:	Variable, 0-164 fpm / 0-50 m min
	Latch Capacity:	18,739 lb / 8,500 kg @ DAF 3g
	Tether Capacity:	2,789 ft / 850 m x 1.38 in / 35 mm OD - 1,500 m / 27 mm OD Optional
<i>Work / Maintenance platforms are integrated into the TMS frame</i>		
HANDLING SYSTEM	Launch & Recovery System (LARS)	
	A-Frame:	Standard Over Center or Heavy Weather Low Dip
	Winch	
	Type:	Electric AHC or Hydraulic Standard
	Heave Reduction:	90%
CERTIFICATIONS	Umbilical Length:	13,123 ft / 4,000 m
	3 Control Stations:	Remote / Deck Control Van • Fixed / Winch Back Panel
	DNV for Containers (vans), Winch and A-Frame	
	Zoning as Required	
U/W Electrical Design Standard		



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