

# HEAVY DUTY (HD) ROV Technical Data



## Heavy Duty (HD) ROV

- StationKeep™
- Reduced deck space
- Reduced maintenance/ replacement and repair time with modular design
- 150 hp HPU
- Improved thruster performance

The HD ROV has a smaller design while still providing high performance for subsea operations, making this ROV ideal for tasks in tight spaces. Designed with the most advanced technology, this system leads the industry in reliability and performance. The vehicle's modular design decreases maintenance time by a factor of 6-to-1 compared to standard industry vehicles.

Since the HD ROV is compact, it requires less deck space while still providing high performance with a 150 hp HPU and 551 lb payload for subsea operations. Its smaller size coupled with its closed loop control system and station-keeping makes the HD ROV easy to maneuver in tight situations. As for environmental impact, the stainless steel tubing used throughout the hydraulic system offers the most reliable method to avoid leakage.



### SPECIFICATIONS

#### ROV

Classification:	Heavy-Duty Work Class ROV System
Payload:	551 lb / 250 kg
Through Frame Lift:	6,614 lb / 3,000 kg
HPU Motor:	150 SHP (shaft horsepower)
Depth Rating:	9,843 ft / 3,000 msw (optional 4,000 msw)
Main Hydraulics:	4,000 psi @ 64 gpm / 257 bar @ 242 lpm
Aux Hydraulics:	3,000 psi @ 20.6 gpm / 207 bar @ 78 lpm
Hydraulic Functions:	8 Station Proportional Valve Pack 3 Station High Flow Valve Pack
Telemetry System:	Digital Telemetry System (DTS) GB Ethernet

#### GENERAL

#### Maximum Speed

Fore/Aft: 3.15 knots • Lateral: 2.3 knots • Vertical: 2.43 knots

#### Bollard Pull

Fore/Aft: 1,984 lbf / 900 kgf • Lateral: 1,984 lbf / 900 kgf  
Vertical Up: 1,874 lbf / 850 kgf • Vertical Down: 1,874 lbf / 850 kgf

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## SPECIFICATIONS (CONTINUED)



GENERAL	<b>Instrumentation</b>	
	Depth Sensor:	Paroscientific, Digiquartz Series 8000
	Heading/Attitude Sensor:	Fiber Optic Gyro or Ring Laser Gyro
	Doppler Velocity Log:	RDI Workhorse Navigator 1200
	Sonar:	Kongsberg Simrad MS1171
	Cameras:	Imenco (HD available)
	<b>Auto Control Modes</b>	
	Heading:	$\pm 2^\circ$ , 360° Range
	Depth/Altitude:	$\pm 6$ 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	<b>Manipulators</b>	
	Port:	Atlas (7 function rate control)
	STBD:	Atlas (7 function rate control) or Titan 4 (7 function spatially correspondent)
	<b>Tether Management System (TMS)</b>	
	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:	19,842 lb / 9,000 kg @ DAF 3g
	Tether Capacity:	2,789 ft / 850 m x 1.38 in / 28 mm OD
<i>Work / Maintenance platforms are integrated into the TMS frame</i>		
HANDLING SYSTEM	<b>Launch &amp; Recovery System (LARS)</b>	
	A-Frame:	Standard Over Center or Heavy Weather Low Dip
	<b>Winch</b>	
	Type:	Electric AHC or Hydraulic Standard
	Heave Reduction:	90%
CERTIFICATIONS	Umbilical Length:	9,843 ft / 3,000 m Standard (4,000 m available)
	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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