

Magnum® Plus

Heavy work class ROV

The Magnum® ROV is a side entry cage deployed, dual manipulator ROV that operates in water depths up to 10,000 fsw and in severe weather conditions. The cage or tether management system (TMS) supplies an additional 85 hp, powers skids, and has thruster control and auto heading.



FEATURES

Fly-by-wire station keeping system

10,000 fsw / 3,000 msw depth rating (13,000 fsw / 4,000 msw optional)

170 hp

Vehicle Specifications

Weight in air	6,750 lb / 3,060 kg
Dimensions (LxWxH)	8.5 x 5.1 x 6.1 ft / 2.6 x 1.6 x 1.9 m
Depth rating	10,000 ft / 3,000 m (standard) 13,000 ft / 4,000 m (optional)

Vehicle Power and Performance

Hydraulic power units	2 x 85 hp(E)
Propulsion	4 x vectored horizontal 2 X vertical
Thrust	
Forward/reverse:	1,600 lb / 725 kg
Lateral:	1,750 lb / 800 kg
Vertical:	1,200 lb / 550 kg

Vehicle Manipulators and Tooling

Manipulators (2)	5 or 7 Function: rate, SC or Hybrid Control
Hydraulic tool control	Multiple directional control valves with proportional pressure and flow control Maximum 25 gal/min

Vehicle Cameras and Lighting

Cameras	Standard definition (SD) High definition (HD) 3D HD (optional)
Lighting	Up to 8 x 250 W (quartz halogen or high-intensity LED)

Vehicle Control and Navigation

Automatic control	Fly-by-wire station keeping system Auto heading/depth/altitude Cruise control
Heading and altitude sensors	Survey-grade gyro Backup flux gate compass
Depth sensor	High-resolution digiquartz Backup analog depth sensor
Navigation sensor	Doppler velocity log
Obstacle avoidance sonar	Kongsberg 1071 or 1171 Tritech SeaKing

Vehicle Optional Power and Data Interfaces

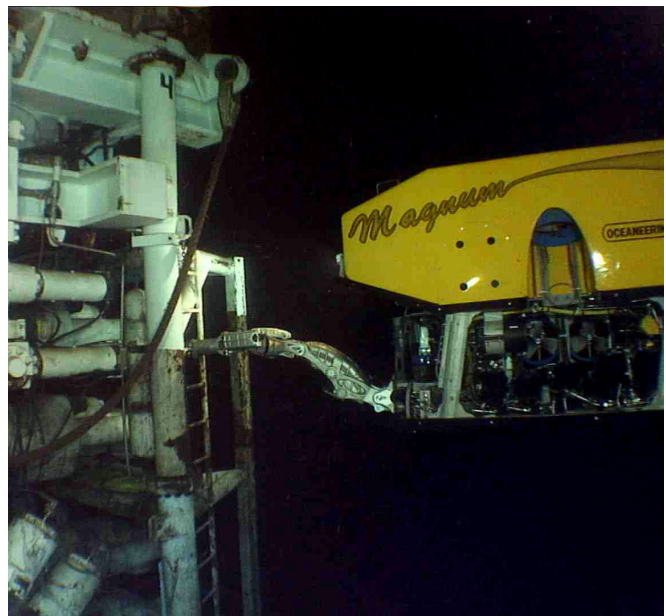
Data links	Multiple RS232 and RS485 Ethernet Optical fiber
Power	24 V DC and 110 V AC

Tether Management System (TMS)

Type	Side entry cage or top-hat
Propulsion	2 x horizontal (cage only)
Hydraulic power unit	1 x 85 hp(E)
Electro-optical tether	1,800 ft / 550 m (cage) 4,000 ft / 1,200 m (cage) optional 1,300 ft / 400 m (top-hat)
Cameras	2 x charge-coupled device (CCD)
Lighting	2 x 250 W (quartz halogen or high-intensity LED)

Launch and Recovery Systems (LARS) (choice of)

Overboarding	
A-frame w/ or w/o docking head	
Heavy-weather overboarding system	
Cursor	
Winch	
Heavy lift winch with conventional or OHRA level wind	



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