

eMagnum Plus

High performance work class vehicle

The Magnum® Remotely Operated Vehicle (ROV) represents the backbone of Oceanengineering's fleet of high-powered work class ROV systems with deepwater capabilities. The eMagnum Plus is the latest addition to the Magnum family.

It has increased efficiency, "all electric" propulsion system and is built on the same frame, components and control system as the reliable and easily maintained Magnum® Plus ROV.

FEATURES

Environmentally friendly

Major step towards 'all electric'

Compatible with existing equipment



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The eMagnum Plus has an all electric propulsion system. Only a small Hydraulic Power Unit (HPU) is provided for operation of tooling and manipulators, thus reducing the hydraulic system by 75 %. The propulsion system is "all electric" which means reduced power needs to achieve the same effect and a quicker response time.

Features

- » Environmentally friendly
- » Major step towards 'all electric'
- » Compatible with existing equipment

Technical Data

Dimensions: (LxWxH)	9.4 x 5 x 5.9 ft / 2.9 x 1.5 x 1.8 m
Weight in air:	6151 lb / 2790 kg
Frame:	6061 T6 Aluminum
Fittings:	316 Stainless Steel
Depth rating:	Standard: 3,300 ft / 1000 m Optional: 10,000 ft / 3000 m
Payload:	500 lb / 227 kg
Horsepower:	6 x 15 kW / 20 hp thrusters 1 x 12 kW / 16 hp HPU
Hydraulic flow capacity:	8 gal/min @ 3,000 psi 30 l/min @ 210 bar
Propulsion:	4 x vectored horizontal 2 x vertical
Forward/reverse thrust:	1689 lb / 766 kg
Lateral thrust:	1843 lb / 836 kg
Vertical thrust:	1157 lb / 525 kg
Power requirements:	440 VAC, 60 Hz, 255 KVA
Lighting:	5 x LED lights

The eMagnum Plus can easily replace existing Magnum Plus with no need to replace any topside equipment.

An auxiliary HPU will supply manipulators and tooling with hydraulic power. Electric drive system has been developed by Oceaneering based on proven components and technology. Thrusters have been used in the GoM since 2003.



Surface controlled spare tooling valves:	RCU 1 x Directional proportional pressure reduction valve 10 x Solenoid operated rate valves
Navigation:	1071 High resolution sonar head TSS Meridian Gyro Paroscientific Digiquartz depth transducer Auto depth/heading/altitude with full-time bathymetry display. DVL station keeping
Manipulators:	7 function Schilling T4 5 function Schilling Rigmaster
Video and data:	16 x RS232/RS485 serial channels [11 spare] 8 video channels
Cameras:	1 x digital still camera 1 x low light, wide angle 1 x color camera zoom 18:1 2 x electric P&T units 1 x aft 1 x HD camera 1080i, zoom 3,8:1 1 x manipulator camera

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