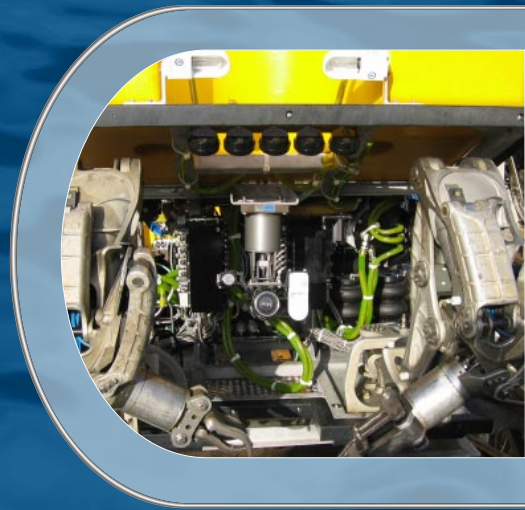


The Hydra[®] Magnum represents the backbone of Oceaneering's fleet of high-powered remotely operated vehicle (ROV) work systems with deepwater capabilities. Reliable and easily maintained, the ROV provides a 120 hp, high-thrust, cage-deployed system that is designed to accommodate underwater intervention tasks in support of oil and gas drilling, construction, and production activities. The Hydra[®] Magnum evolved from years of experience in deepwater work class ROV operations. The ROV delivers performance in water depths to 10,000 fsw and also in severe weather conditions.

Oceaneering maintains a world leadership position in providing deepwater work class ROVs to the oil and gas industry. The Hydra[®] Magnum ROV is one several types of ROVs in the company's extensive fleet that are designed and built at Oceaneering's Morgan City, Louisiana facility.

- Field Proven
- Ultra Reliable
- High-Powered
- Easily Maintained



Vehicle

| | |
|---------------------|---|
| Length: | 8.5 ft |
| Width: | 4.8 ft |
| Height: | 6 ft |
| Weight in air: | 5,600 lbs |
| Frame: | 6061 T6 Aluminum |
| Fittings: | 316 Stainless Steel |
| Depth Rating: | 10,000 ft |
| Payload: | 500 lbs |
| Horsepower: | 2 ea 60 hp Hydraulic Power Units (120 hp) |
| Propulsion: | 2 x Fore/Aft 2 x Lateral 2 x Vertical |
| Thrust: | |
| Forward/Reverse: | 1,250 lbs |
| Lateral: | 1,185 lbs |
| Vertical: | 1,000 lbs |
| Power Requirements: | 480 VAC, 3 phase, 60 Hz |
| Telemetry/Control: | Asynchronous serial data transmission microprocessor control for auto heading, depth, altitude, & cruise, data displays |
| Lighting: | 5 x 250 watts |
| Cameras: | 1 x Wide angle Low Light, 1 x Color CCD 2 x B&W CCD tooling 1 x B&W CCD aft |

Navigation:

- Mesotech MS900 color imaging sonar
- KVH or Honeywell HMR3000 gyrocompass
- Dinsmore directional heading sensor
- Paroscientific Digiquartz depth sensor

Manipulators:

- 1 x 7 function Schilling Conan
- 1 x 7 function Schilling Orion
- (Other options available)

Umbilical

- High-strength, armored opto-electro-mechanical

Subsea Deployment Cage

| | |
|------------------|--------------------------------------|
| Length: | 11 ft |
| Width: | 6.6 ft |
| Height: | 12 ft |
| Weight in air: | 7,400 lbs |
| Weight in water: | 4,050 lbs |
| HPU: | 60 hp |
| Tether: | 600 ft Standard 1,600 ft optional |
| Camera: | 2 x B&W CCD |
| Lighting: | 2 x 250 watts |

Deployment System

| | |
|-----------------------------------|-------------|
| Dynacon 421/421D3 Winch | |
| Length: | 14 ft 10 in |
| Width: | 10 ft 8 in |
| Weight (w/cable): | 48,000 lbs |
| Dynacon 6021 Docking Head A-frame | |
| Length: | 38 ft |
| Width: | 11.5 ft |
| Weight: | 65,000 lbs |

Standard Tooling Packages

- 1.25 in Dia. wire rope cutter
- 1 in fiber rope cutter
- Ring gasket replacement tool
- TP03 dredge/jet pump, Rotary grinder/cutter/buffer

Control / Work Vans

| | |
|----------|--------------------|
| Lengths: | 14 / 16 ft |
| Width: | 8 ft |
| Height: | 8 ft |
| Weights: | 9,960 / 14,000 lbs |

Constructed of Aluminum

Options include stacking and Positive Pressure vans

