

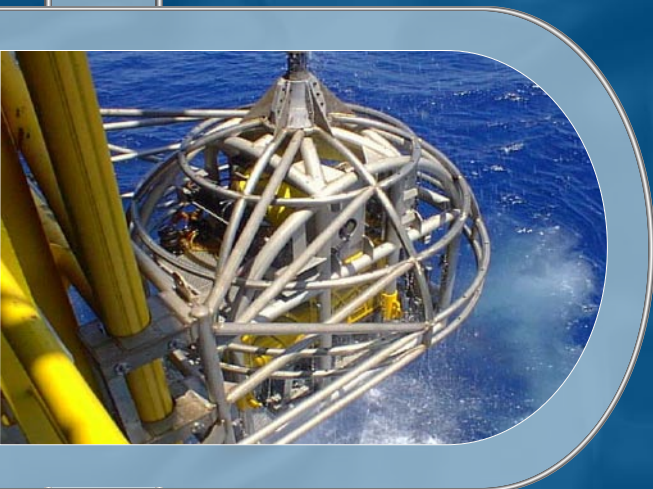
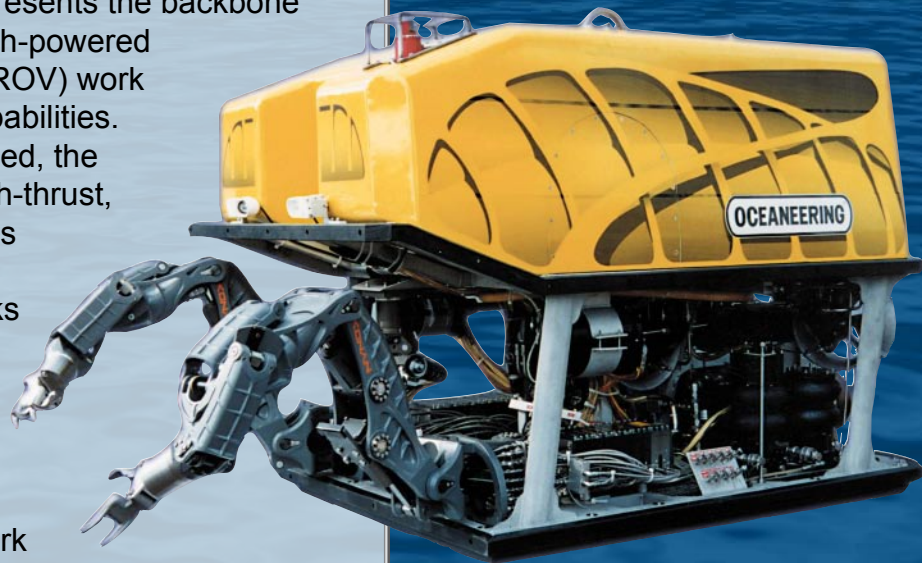
# HYDRA® MAGNUM 100 HP SYSTEM

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 100 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 and other types of ROVs in the company's extensive fleet are designed and built at Oceaneering's Morgan City, Louisiana facility.

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



The side-entry cage, with a capacity of 600 ft of neutrally buoyant flying tether, provides protection during launch and recovery, makes deployment and recovery more efficient in marginal weather and high currents, provides additional tooling capabilities and storage, and provides additional payload for the deployment and recovery of subsea equipment.

# HYDRA® MAGNUM 100 HP SYSTEM SPECIFICATIONS

## 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 50 hp Hydraulic Power Units (100 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
- (Spatially Correspondent optional)

## 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:	50 hp
Tether:	600 ft Standard
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

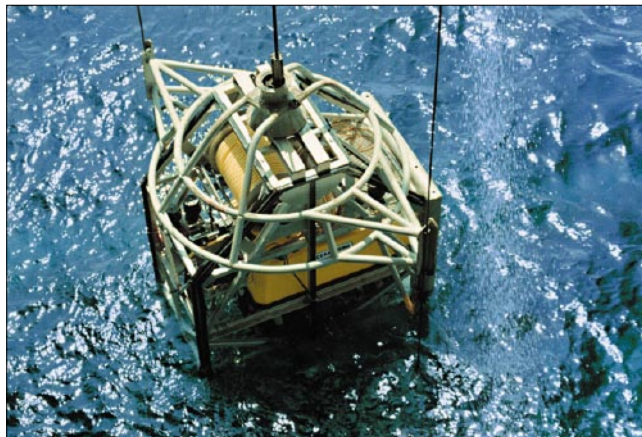
- 1.25 in Dia. wire rope cutter
- 1 in fiber rope cutter
- Ring gasket replacement tool
- TP03 dredge/jet pump, Rotary grinder/cutter/buffer

## 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



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