

The Hydra® Maximum is a cage deployed, dual manipulator 300 hp work class ROV system. Enhanced thruster configuration provides center lift capacity of nearly 3,000 lbs and forward pivoted bollard lift capacity in excess of 1,800 lbs. The system employs a microprocessor-based telemetry system to minimize maintenance, decrease set up time, simplify troubleshooting, and provide more automated control functions. Tooling control is accomplished external to main telemetry in order to maintain both flight control and tooling control at maximum flexibility and efficiency.

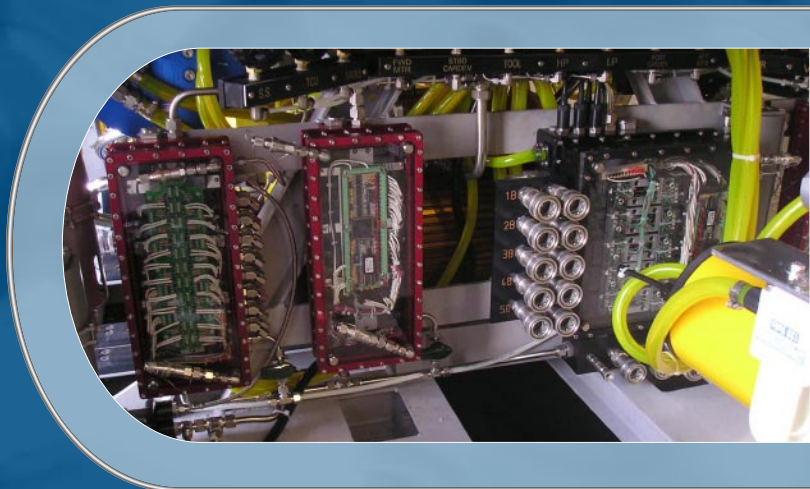
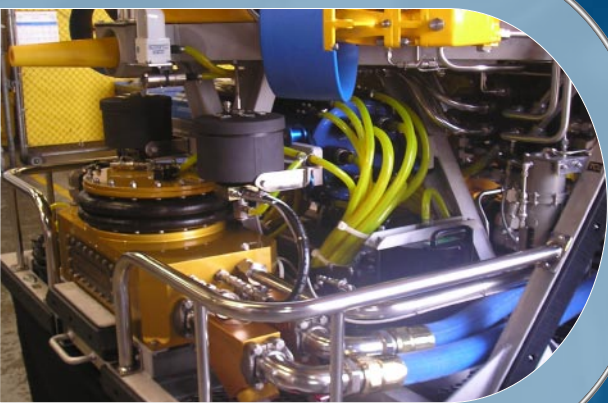
A direct fiber optic link between console and vehicle is the primary transmission path for all video and data signals. The link provides the finest quality video available in deepwater ROV technology as well as tremendous bandwidth for sensors and equipment.

The Maximum design evolved in response to extensive discussions with Customers who were looking for enhanced performance and work capabilities to support their deepwater drilling and field development programs worldwide.



Features:

- Tooling Controlled & Configured from Surface
- Tooling Independent from Main Telemetry
- Proportional Flow & Pressure Control x 5
- Solenoid Control x 19
- Directional Proportional High Flow (52 GPM) x 1
- 8 Video Channels
- 9 Spare Serial Data Channels



Vehicle

Length:	10 ft 1 in
Width:	6 ft 1 in
Height:	6 ft 10 ½ in
Weight in air:	10,750 lbs
Frame:	6061 T6 Aluminum
Fittings:	316 Stainless Steel
Depth Rating:	10,000 ft (standard)
Payload:	1,100 lbs
Horsepower:	220 Shp (2 ea 110 Shp Hydraulic Power Units)
Hydraulic Flow Capacity:	90 GPM
Propulsion:	4 x Cornered Vector 4 x Vertical
Thrust:	Fore/Aft/Lateral: > 2,200 lbs Vertical Lift: > 2,900 lbs
Surface Controlled Spare Tooling Valves:	
	<ul style="list-style-type: none"> • 5 each Directional Proportional Pressure and Flow Valves (10 gpm each) • 1 each Directional Proportional Flow Valve (up to 52 gpm @ system pressure) • 19 each Solenoid Operated Rate Valves
Required Power:	480 VAC, 3 phase, 60 Hz
Lighting:	12 x 250 watts (3,000 watts total)
Cameras:	1 x Digital Video & Stills 1 x Low Light Level 1 x Color 18:1 Zoom 1 x Domed P&T 1 x Aft 3 x Additional Camera Ports

Navigation:

- Mesotech MS1000 color imaging sonar with 2305 High Resolution Sonar Head
- TSS Meridian Gyro
- Paroscientific Digiquartz depth transducer
- Auto Depth/auto heading/auto altitude with full-time bathymetry display

Manipulators:

- 1 x 7 function Schilling Orion Rate Controlled
- 1 x Shilling Titan III Spatially Correspondent
- Optional center-mounted Grabber for heavy lifting

Video & Data

- 16 each RS232 / RS485 Serial Channels (9 Spare)
- 8 Video Channels

Standard Tooling Packages

- 1.25 in diameter Wire rope cutter, 1 in fiber rope cutter
- Ring gasket replacement tool package
- TP03 dredge/jet pump, Rotary grinder/cutter/buffer
- 1 x 2500 psi @ 3.5 gpm Intervention Pump w/2.5 gal reservoir
- High pressure (10,000 psi) intervention package

Control Consoles

- Pilot & navigator stations
- Up to 42 in HD Customer Display
- DVD & SVHS Video Recorders
- Direct Accessibility to Video & Data Multiplexers

Umbilical

- 10,000 ft - High-strength, Armored Opto-electro-mechanical
- Heavy Weather Deployment & Cursor System
- Dynacon 5521 Traction Winch with w/ Heavy
- Weather Deployment Cursor

Subsea Deployment Cage

80 SHP Hydraulic Power Unit

Tether: 2,000 ft standard

Digital Gyro Compass

Camera: 2 x B&W CCD

Lighting: 2 x 250 watts

Cage Dual Thruster Package

Capable of Add-On Tooling Packages



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