



## **Dominion Diving Limited proudly offers its MRV Work Class ROV System**

This MRV is a rugged work class ROV system offering exceptional reliability and operational capacity. The MRV can be used to support virtually any ROV requirement and is equally suited to the exploration, construction, IRM, survey, or decommissioning sectors of the global offshore energy industry.

### **Features**

- Depth Rating 1000 metres (2200 Metre Optional)
- Top Hat TMS
- 200 kg payload with standard equipment fitted
- Dual manipulators
- 100 HP
- Up to 6 cameras available
- 4 vectored horizontal and 3 vertical thrusters

# SPECIFICATIONS

## REMOTELY OPERATED VEHICLE

Operating Conditions	Up to and including Sea State 6-7 (4g)
Depth Rating	1000 metres sea water (2200 metres optional)
ROV Power	100 SHP
Length	3000mm
Width	1850mm
Height	1900mm
In Air Weight	3000kg
In Seawater	Weight Neutral
Fwd/Aft Bollard Pull	949kgf Lateral
Bollard Pull	949kgf Fwd/Aft
Bollard Pull	800kgf Vertical
Surface Speed	3+ knots Lateral
Surface Speed	2+ knots Vertical
Speed	3+ knots
Payload	200kg with all std equip fitted
Through Frame Lift	3000kg at work skid attachment points
Main Pump	230bar @155 lpm
Propulsion	4 x 380mm horizontal and 3 x 380mm vertical hydraulic thrusters
Thruster Control Manifold	8 station control
GF Valve pack 1	11 station bi-directional
GF Valve pack 2	11 station Manifold
Manifold	2 High flow valves
Auto Functions	Heading, Depth, Altitude, Pitch & Roll
Heading Control	Gyro sensor
Depth Control	Digi quartz Depth sensor
Altitude Control	Tritech PA500
Telemetry	Real-time Video Channels (6) 8 x Full Duplex RS232 @115pbs Data Channels 4x Full/Half Duplex RS485/422/232 @115pbs channels Voltage meters for input power and all switching controls
Lighting	8 x 250W lamps
Equipment Interface	Survey JB up to 15 channels

## VEHICLE STANDARD EQUIPMENT

Manipulator	1x 7F
Grabber	1 x PSSI TA16
Camera Pan and Tilt	2 x Trittech PT3636-C
Colour Cameras	2 x OE14-367 Colour Zoom Cameras 1 x OE14-106 Colour Camera 1 x OE14-110 Colour Camera
Low Light Camera	1 x OE1323 SIT Camera
Sonar	1 x Trittech Super Seaking DFS

## TETHER MANAGEMENT SYSTEM

Operating Conditions	Up to and including Sea State 6
Tether Capacity	200m + of 27mm Tether
Hydraulic Power	20 HP
Diameter	2000mm
Height	2100mm
In Air Weight	3000kg
Depth Measurement	1 x Digi quartz Depth sensor
Lighting	2 x 250W lamps
Video	1 x OE14-110 Colour Camera

## CONTROL CONTAINER

Control Container	A60 Zone 2 - DNV 2.7-1
Length	6100mm
Width	2440mm
Height	2600mm
Weight	10,500kg
Air conditioning	1x 7.5KW
Incoming Supplies	1 x 440Vac, 60Hz, 3 Phase main supply

## WORKSHOP CONTAINER

Control Container	A60 Zone 2 - DNV 2.7-1
Length	6060mm
Width	2440mm
Height	2590mm
Weight	12,000kg
Air Conditioning	1 X 7.5KW
Incoming Supplies	1 X 440Vac, 50Hz, 3 Phase main supply

## A-FRAME ASSEMBLY

Type	Hydraulically powered telescopic A-Frame c/w Umbilical sheave, damped snubber and rotating frame
Safe Working Load	7 Te S.W.L., 7000Kg in air
Design Factor	4g (Sea State 6-7, typically 6m Hs)
Deployed Reach	4736mm
Dimensions	8000mm (L) x 3500mm (W) x 8500mm (H-erected)
Weight	18,000Kg nominal

## UMBILICAL WINCH

Type	Hydraulically powered from external power unit
Safe Working Load	7,000kg on top layer
Design Factor	3g
Umbilical Storage Capacity	1500m of 46mm diameter armoured umbilical
Speed	Variable up to 36 metres per minute
Braking	Independent Emergency braking system
Dimensions	3200mm (L) x 2900mm (W) x 3310mm (H)
Weight	17,000Kg nominal with 1,200m of umbilical Installed
Control	Local control station