

▶ MR1 • Multi Role ROV

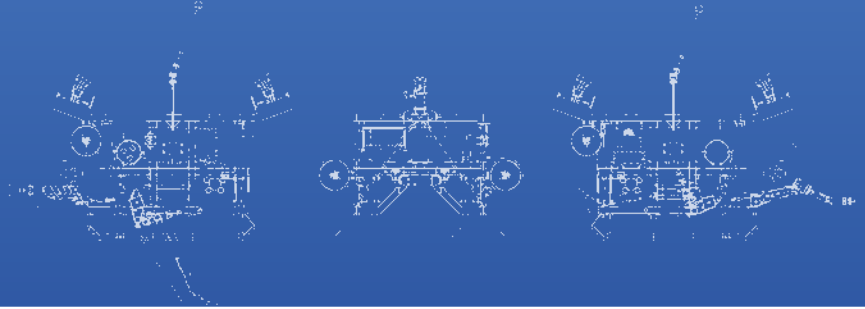
Technical Specification

MR1 is an SMD built, lightweight, 150kW / 200HP free swimming jetting and work class ROV providing an efficient, cost-effective and flexible solution for subsea and seabed intervention operations.



MR1 ■ Multi Role ROV

Technical Specification



Particulars

Length	3.6m
Width	3.2m
Height	2.5m
Configuration	Free-Swimming Un-Garaged Vehicle
Total Power	150kW/200hp
Maximum Depth Rating	2500m
Hydraulic Power Unit	1 x 150kW 4 pole 3.3 kV electro-hydraulic unit
Horizontal Thrusters	4 x 420mm dia. SubAtlantic thrusters
Vertical Thrusters	2 x 420mm dia. SubAtlantic thrusters
Max. Forward Thrust	800kg
Max. Vertical Thrust	700kg
Weight in Air (approx.)	6600kg
Weight in Water	50kg buoyant

Surveillance Equipment

Surveillance Equipment	
Cameras	2 x CCD monochrome (Osprey OE1358) 1 x CCD colour (Osprey OE1364) 1 x SIT monochrome (Osprey OE1324)
Pan & Tilts	1 x SubAtlantic 48Nm Pan & Tilt 1 x SubAtlantic 48Nm Tilt Rotator
Lamps	8 x 150W individually switched lamps
Search and OA Sonar	Mesotech 971 transducer
Cable Tracker	TSS Dual Track (TSS340/TSS350)

Cable Tools Package

Manipulators	1 x Schilling Orion 7R 1 x Schilling Rigmaster 5R
Cable Cutter	Webtool HCV100
Cable Clamp	Slingsby TA 17

Cable Burial Tool

Configuration	Forward mounted twin jet legs with multiple low pressure water jets at 30° to horizontal forward and two horizontal to the rear. Fitted with positive cable depressor with independent motion to jet articulation.
Water Pump	1 x Variable speed hydraulically driven single stage water pump.
Maximum Jet Pressure	4 Bar
Power Consumption	50 - 100kW
Depth Control	0 - 1000mm
Width Control	100 - 400mm (between jet legs)

Handling System

A-Frame	
SWL	10te
Weight	8.6te approximately including sheave.

Launch & Recovery (LARS) Winch

Length	1.64m
Width	1.3m
Height	1.55m
Weight	3te



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