

MOHICAN

SPECIFICATION SHEET



OBSERVATION CLASS ROV - MOHICAN

KEY FEATURES

- MANOEUVRABILITY
 - HIGH THRUST BOTH AXIAL AND LATERAL
 - SIX BRUSHLESS DC THRUSTERS WITH SUBATLANTICS STATORSHIELD™ TECHNOLOGY AND DYNAMIC VECTORING
 - PROPULSION SYSTEM ALLOWING IT TO WORK IN HIGH CURRENT CONDITIONS
- TECHNOLOGY
 - MOHICAN USES A 3000 V, 400 HZ POWER TRANSMISSION SYSTEM FROM SURFACE TO ROV RESULTING IN A SMALL TETHER AND MAIN LIFT UMBILICAL
- EXTERNAL EQUIPMENT
 - TOOL SKID, MANIPULATOR, TORQUE TOOL AND FMD OPTIONS CLASSIFICATION
 - INSPECTION, OBSERVATION, SEARCH, SURVEY AND LIGHT WORK

GENERAL

DEPTH RATING	2000 msw
POWER REQ.	380-440VAC 3-phase 50/60 Hz @ 25 amps
DIMENSIONS	
LENGTH	1.15 m
WIDTH	0.77 m
HEIGHT	0.80 m
WEIGHT IN AIR	290 kg
BUOYANCY	Three easily lifted modules with closed cell micro-spheres rated to 2000 msw

PERFORMANCE

SPEED	
FORWARDS	3.5 knots
BACKWARDS	3.5 knots
VERTICAL	3.5 knots
LATERAL	2.0 knots
TURNING RATE	180 deg / s
THRUSTERS	4 x Sub-Atlantic SPE180 Horizontal thrusters in vectored configuration & 2 x Sub-Atlantic SPE180 vertical thrusters vectored outwards
THRUST	
FWD/BWD	110 kg
VERTICAL	110 kg
LATERAL	110 kg
PAYLOAD	35 kg
VEHICLE POWER OUTLET	Transformer box provides 320 V DC power outlet to drive external equipment up to 7.5 kW

STANDARD EQUIPMENT

TMS	
MANUFACTURER/TYPE	Sub-Atlantic - Type 1
WIDTH	1.074 m
LENGTH	1.609 m
HEIGHT	1.632 m - 2.032 m (adjustable)
WEIGHT	580 kg in air
DESIGN CRITERIA	Designed to 2 Te SWL @ 3G
TETHER LENGTH	Up to 400 m of 16 mm Tether
REQUIRED POWER SUPPLY	8 kVA
LIGHTING	4 x 250 W Halogen lamps, dimmer controlled on 2 circuits

CAMERA FACILITIES

Tilting bracket for mounting two cameras (SIT size) and lamp
Tilt position angle on video overlay

ELECTRONIC POD AND TELEMETRY

TELEMETRY SYSTEM

Fibre optics system providing 3/6 x video, 4 x RS232 and 2 x RS485 and optional ethernet

COMMUNICATION

1 x RS485 channel. Uplink / downlink includes 8 analogue channels and 16 digital switch channels all with 12bit resolution

HOUSING

All electronics are located in a single aluminium alloy housing rated to 2000 msw
Housing end incorporates all electronic connectors for the various ROV components and optional sensors

ALARMS

Vacuum and water ingress alarms

SUPPORTS A RANGE OF SENSORS AND EQUIPMENT, TYPICALLY

Cameras, sonars, oceanographic sensors

Small hydraulic and electric manipulators

Tool Skid, torque tools, FMD tools, cleaning and jetting tools and inspection equipment

Various sizes and configurations available

SCU (SURFACE CONTROL UNIT)

2 x 15" Colour Monitors

Light Dimmers

Automatic depth and heading control (altitude optional)

Tether / umbilical turns counter

Video Overlay system

Earth leakage protection system

HCU (HAND CONTROL UNIT)

2 x control joysticks

Light dimmer controls

Camera and tilt controls

Digital switches

Dynamic vectoring control

Auto-function control

Joystick trims

Thruster power trims and isolations

TMS tether pay in/out

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