

MOHICAN



GSP ROV - Mohican

ROV & SAT •



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GRUP SERVICII PETROLIERE
member of UPETROM GROUP



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TECHNICAL DATA

Inspection Class ROV system, incorporating an enhanced propulsion system allowing it to continue working in high current conditions.

Ultra-High Thrust Greater Than 100 kgf / 220 lbf both Axial and Lateral
 Six Brushless DC Thrusters with Sub-Atlantic's Statorshield TM Technology and Dynamic Vectoring
 Long, Small Diameter, Low Drag Tether
 Auto-Function
 Multiple Video Channels
 Deep Live Boat, Tunnel or TMS Operation
 Manipulator Options
 Integral High Pressure Cleaning System Option
 Various Skid Options

Power System: 3,000 Volt, 400 Hz
 Standard Rating: 2,000 m / 6,500 ft
 Standard Payload (Options): 35 kg / 77 lbs

COMPACT CONTROL

Surface equipment includes three basic units:

- Surface Control Unit (SCU) in an 8U x 19" rack mount configuration
- Transformer Power Unit (TPU) incorporating transformer in a floor mounted cabinet
- Hand Control Unit (HCU) which is lightweight and portable

MOHICAN SYSTEM SPECIFICATIONS

ROV GENERAL SPECIFICATIONS

Depth Rating: 2,000 msw (6,560 fsw) standard (deeper options)
 Payload: 35 kg (77 lb) lead ballast
 Height: 800 mm (25.5 in)
 Length: 1,150 mm (45.3 in)
 Width: 770 mm (30.3 in)
 Mass in Air: 340 kg (749 lb)

MAX. THRUST @ 0 KNOTS WITH 0 VOLTAGE LOSSES

Forward: 110 kgf (242 lbf)
 Reverse: 110 kgf (242 lbf)
 Lateral: 110 kgf (242 lbf)
 Vertical: 75 kgf (165 lbf)

MAX. VELOCITY / OPERATIONAL CURRENT (0 tether excursion)

Forward: 1.75 m / s (3.5 kT)
 Reverse: 1.75 m / s (3.5 kT)
 Lateral: 1.75 m / s (3.5 kT)
 Vertical: 1.0 m / s (2.0 kT)
 Turning Rate: 180°/s (approx.)
 OV Power Requirements: 440 Vac 3 Ph 50 / 60 Hz 15 kVA

SURFACE EQUIPMENT GENERAL SPECIFICATION

SURFACE CONTROL UNIT (SCU)

Height: 355 mm (14.0 in)
 Width: 483 mm (19.0 in)
 Depth: 450 mm (17.7 in)

Mass: 12 kg (27 lb)
 SCU Power Requirements: 220 / 240 Vac 50 / 60 Hz 2 kVA

TRANSFORMER POWER UNIT (TPU)

Height: 650 mm (25.6 in)
 Width: 630 mm (24.8 in)
 Depth: 505 mm (19.9 in)
 Mass (approx.): 50 kg (330 lb)

HAND CONTROL UNIT (HCU)

Height: 160 mm (6.3 in)
 Width: 480 mm (18.9 in)
 Depth: 230 mm (9.1 in)
 Mass: 1.5 kg (3 lb)

SENSORS AND EQUIPMENT

Cameras; Sonar's; Oceanographic Sensors;
 Small hydraulic and electric manipulators;
 Tool skid; Torque tools; FMD tools;
 Cleaning and jetting tools;
 Inspection equipment.

TETHER AND MAIN LIFT CABLE DIMENSIONS

Tether (standard): 16.5 mm / 0.65 in diameter
 Main Lift Umbilical (up to 4,000 msw): 25.5 mm / 1.0 in diameter



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