

Super Scorpio 15 ROV System

SPECIFICATIONS (VEHICLE)

Length : 2450mm Weight : 1225 kg
 Width : 2000mm Payload : 100 kg
 Height : 1500mm Depth : 800 meters

CONSTRUCTION

Multiple electronics pressure vessels
 Aluminium alloy welded beam frame
 Buoyancy material

POWER PACK

75HP HP @ 3000 psi.

PERFORMANCE

Forward : >3 Knots
 Vertical : >1 Knot
 Lateral : >1.7 Knots All vehicle speeds $\pm 10\%$,
 based upon bare vehicle

PROPULSION

2 axial thrusters, 1 lateral thrusters, 1 vertical thrusters,
 Each capable of 295 kgf (650lbf thrust)

MANIPULATOR/TOOLS (OPTIONAL)

1 x 5 function joystick controlled rate manipulator (gripper type)
 1 x 7 function spatially correspondent manipulator

SPARE HYDRAULIC CONTROL

High flow (Up to 30 GPM) Pilot operated control valves on main
 pressure and return lines.

POWER DISTRIBUTION

Ground fault monitoring and protection system
 Surface transformers
 Overload, undervoltage protection & phase line monitoring
 GFI/GFD - Monitors (3) mounted flush with front door on PDU

SPARE HYDRAULIC OUTPUTS

Five spare solenoid valves, fitted with 3000psi, 4 way, 3 position with dual
 crossover relief and pilot checks. All optional solenoid valves are
 pre-wired to the pilot's control console.

AUTO FUNCTIONS

- Heading from gyro compass $\pm 2^\circ$
- Depth from pressure transducer $\pm 1^\circ$ fsk
- Heading park from inertial rate transducer
- Pitch and roll via Sperry Inclinator $\pm 0.5^\circ$



CLIENT REPRESENTATIVE VIEWING AREA

The control van can be fitted with a dedicated viewing area for the client to monitor all ROV subsea
 operations. It will include a 14 inch color monitor with outputs from the control console's video
 switching unit.

CONTROL CONSOLE

- Dual bay 19 inch rack system
- VDU graphic information display monitor
- 2 x 14 inch color monitors
- Sonar display
- Joystick control for vehicle
- Video character generator
- 2 x VHS recorders
- 10 Channel video switcher
- Manipulator controllers

PILOT'S CONTROL SHELF

Contains dual aerospace type joysticks with ROV motion control thumb switches (2), main thumb
 switch for ROV pan and tilt control, still camera trigger. Also includes on/off switches, pots or push
 buttons for: HPU, instrumentation power, TMS HPU, camera controls on/off and focus (5), TMS latch
 open/close with caged latched indicator lights, video annotation on/off, gyro on/off, vehicle and
 altitude sonar on/off, switches for hydraulic manifold solenoids (12), main joystick forward/ reverse,
 graphics page select, joystick sensitivity, console local/remote, resets (5), light controls (4), ROV trim
 pots (8), additional pan and tilt joystick, auto depth, auto altitude, auto heading and auto heading park.

VIDEO, LIGHTS AND PINGER

- Silicon intensified Target (SIT), monochrome video camera
- Color CCD video camera (Inspection use)
- 4 x 250W lights, flood or spot, individually dimmable, additional 500W light
 circuits available as an option
- Submersible flashing beacon
- 27kHz Pinger

PAN AND TILT

Type : Two units, Hydraulic and Electric
 Range : ± 80 degrees; Tilt ± 180 degrees Pan

SONAR

Type : Mesotech 971 or equivalent
 Range 5-100m selectable
 High resolution color
 Sector or 360° scan selectable
 Scan rate selectable
 Mounted on pop-up for 360° sonar capability or equivalent

LAUNCH & RECOVERY SYSTEM : (CRANE)

Type : HIAB crane
 Dimensions
 Length : 2.372 m Height (folded) : 3.670m
 Width : 1.222m Weight : 7,000 kg

MAIN WINCH

Storage for 1100 m (3,600ft) of umbilical
 Electro - Hydraulic operation
 Self-adjusting level wind to suit cable
 Purgeable slip rings, fail-safe brakes
 Designed for Zone 1 operation
Dimensions
 Length : 2.71m Height : 3.80m
 Width : 2.44m Speed : 0.65m/s (2.13ft/s)
 Weight : 4500kg with 900m umbilical
 Connectors for intercom, pilot's remote console unit, and for remote winch
 control if required.

CONTROL CABIN

Dimensions
 Length : 3.9m Height : 2.44m
 Width : 2.70m Weight : 4500kg
 Houses power distribution system and control console

Allied Marine & Equipment Sdn. Bhd.
 No. 23 Jalan Industri Batu Caves 1/6
 Taman Perindustrian Batu Caves
 68100 Selangor Darul Ehsan, Malaysia

Tel : 603 6185 0844
 Fax : 603 6185 0699
 eMail : info@alliedmarine.com.my

