



REMOTELY OPERATED VEHICLE (ROV)

ROV

PARI 1 & PARI 2



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|------------------------------|---|
| Model | : Pari 1 & Pari 2 |
| Classification/Certification | : DNV, A60 and Zone II (Optional) |
| Type | : 1,500 metres (Free-Swimming) &
3,000 metres (TMS Deployment)
125 HP Work and Survey Class |
| Work Capabilities | : • Drill Support
• Construction Support
• Cable and Pipeline Pre and Post Lay Survey
• Platform Inspection and Cleaning
• Salvage and Oceanographic Survey
• Jacket Inspection and Cleaning
• Special Tooling
• Pipe Lay Barge Support
• Suction Anchor Installation
• Anode Installation |



PARI 1 & PARI 2





PARI 1 & PARI 2

SYSTEM OVERVIEW

VEHICLE

DEPTH RATING

Standard Depth Rating	1,500 metres
Optional Depth Rating	3,000 metres

TOTAL POWER RATING

94 kw / 125hp

DIMENSIONS & WEIGHT

Length	2,500 mm
Width	1,450 mm
Height	1,800 mm
Weight In-Air	2,400 kgs

PERFORMANCE

Forward	700 kgf	3.5 knots
Lateral	550 kgf	3.0 knots
Vertical	500 kgf	1.5 knots

PAYLOAD (INCLUDING MANIPULATORS)

Payload of Standard Vehicle	150 kgs
Optional Additional Payload Through Frame Lift	50 kgs / 2,500 kgs

PROPULSION SYSTEM

7 Eastar 350 mm Diameter 10 kw / 13.5 hp Hydraulic Thrusters Individually Servo Valve Controlled.	
Lateral	4 x 350 mm Ø thrusters
Vertical	3 x 350 mm Ø thrusters

STANDARD POWER PACK 94 KW / 125 HP

Eastar 94 kw / 125 hp Shaft Output Power, 3 Phase, 4 Pole, 3KV Motor, Oil Filled and Compensated.
Vickers Piston Pump, Output 220 lpm @ 200 bar

VIDEO & TELEMETRY SYSTEM (FIBER OPTIC OPTIONAL FIT)

Transmission via Fibre Optics and Copper
Fiber Optic, 3 Video + 6 RS 232 / 485 Channels
Copper, 3 Video + 8 Data Lines
Real-time Video Channels, 3 on Coax / 3 on Fibre

LIGHTING

2KW Available From 4 X 500 watt Dimmer Channels	
Eastar 250 or 500 watt 3000 m Rated Lights	4
Option 8 Lights 2 Pre Channel @ 250 watts Each	

CONTROL & NAVIGATION

Flux Gate Compass and Integrated Rate Gyro System	1
Tritech SeaKing DFS Sonar system	1
Tritech SeaKing PA200-20	1
Eastar Depth Transducer System	1
Auto functions, Heading, Depth, Altitude & Turn Rate	

STANDARD COMPONENTS

Eastar 7 - Function Rate Manipulator	1
Eastar 5 - Function Rate Grabber Arm	1
Eastar 10 - Station Solenoid Valve Pack	2
Hydraulic Tooling Manifold	1
Hydraulic Tooling Servo Valve	1
Eastar Hydraulic Pan & Tilt	1
Eastar CCD Colour Camera	1
Eastar CCD Monochrome Camera	1

POWER PACKS & TOOLING INTERFACES (OPTIONAL FIT)

Eastar Hydraulic Power Pack 125 hp
Eastar Hydraulic Power Pack 50 hp
Eastar 7 - Function Manipulator
Eastar 5 - Function Grabber Arm
Guide Wire Cutter
75mm Diameter Wire Rope Cutter
Disc Cutter / Grinder
API Standard Hot Stabs
API Torque Tools
Standard AX / VX Ring Tools
Ragan Latch Override Tool
Special Tooling to Suit Customer Requirements Supplied on Request

SENSOR INTERFACES (OPTIONAL FIT)

Prizm or Focal Single Mode Video/Data Transmission System
8 Video + 16 Data Channels
Fiber Optic Gyro Compass with Pitch and Roll Sensors
TSS Pipe Tracker
CP Inspection Sensors
BATHY Hi-Resolution Depth and Altitude Sensor
DHSS Dual Scanning Sonar System
USBL
FMD
Side Scanner Sonar
Spare Bulkhead Connectors - 4 Off
User Power Supplies - 1 kw @ 115 VAC
750 VA @ 24 vdc Regulated

UMBILICAL

The Standard Aramid Umbilical Is 41mm in Diameter And Has the Following Cores:
15 X 4mm Sq 3kv Rated Power and Earth Cores
3 X 75 Ohm Coaxial
4 X Screened Twisted Quads
4 Single + 4 Multi Mode Fibres in a Common Loose Tube Standard Length 1,300 Metres

CONTROL CONTAINER, A60 (ZONE II OPTION)

Length	6,058 mm
Width	2,438 mm
Height	2,591 mm
Shipping Weight	10,000 kgs

WORKSHOP CONTAINER, A60 (ZONE II OPTION)

Length	6,058 mm
Width	2,438 mm
Height	2,591 mm
Shipping Weight	12,000 kgs

LAUNCH & RECOVERY SYSTEM (ZONE II OPTION)

Time to Recover from 3,000 msw	95 minutes
System Design Load	32.10 tonnes
A Frame Outreach	4.7 metres
3 Axis Snubber	
Shipping Weight (without Umbilical)	33 tonnes
Shipping Weight (with Umbilical)	53 tonnes

SERVICES

Power (Total)	440V, 300 amps 50/60 Hz
Air (LP)	Optional for Zone II Only
Seawater	1" Chicago @ 8-10 bars