



M V P A C I F I C H O R I Z O N

deep ocean survey ship for charter



Deep Seismic, Geophysics & Geotechnics, Multi role & ROVs

MV Pacific Horizon was first built as a deep-sea factory freezer trawler, being converted to the role of mother ship for mini-submarine operations.

The vessel was subsequently rebuilt by the last owners, Horizon Exploration, as a deep seismic survey ship for world-wide operations. A further significant modernisation was conducted to implement a full 2&3D seismic system. She has now been purchased by Atlantic Marine to provide a multi-purpose deep ocean survey vessel available on the spot market for time charter and for long term project charters. The seismic data handling has been removed but the compressors and deck hardware remain to complement the re-furbished and cleared lab areas for client use together with the addition of a large hydraulic "A" FRAME at the stern. Drawing on the expertise from within the Atlantic Marine, together with our existing high profile survey client base, the specialist areas of operations will include site, pipeline and cable route surveys using Geotechnics (CPT & Vibrocores), and Geophysical surveys with emphasis on Multi beam technology and towed arrays. The ship will also be on offer for Seismic Gunship and the ROV and Submersible support roles as in the past.

A true multi purpose deep sea survey and support vessel

The rebuild and modernisation has provided comprehensive air-conditioned survey and accommodation spaces in addition to the acquisition and data processing suites and vast aft deck areas with complete spread of handling equipment including 2 streamer winches, 6 umbilical winches, 3 x A Frames, 2 cranes and 4 tuggers.

For more information contact:
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Principal Features

Classification:	Lloyds +100A1 LMC DTp Class VII
Port of Registry:	Kingstown, St Vincent
Length Overall:	79.8m
Length BP:	70.22m
Breadth Moulded:	12.6m
Depth Moulded (to Upper Deck):	7.8m
Draft:	5.472m
Speed:	12 knots
Range:	12,000 Nm
Duration:	30+ days
Gross Tonnage:	1598
Net Tonnage:	551
Displacement:	2484 tonnes
Fuel Capacity:	325 tons
F.W. Capacity:	110 and 10+ tonnes per day from evaporators
Accommodation:	44 persons LSA
Crew:	12/14
Signal Letters:	J8X13
Official Number:	8305/N
IMO:	6413807
Year Built:	1963 (Rebuilt 1981)
Builder:	A G Weser (rebuilt by Globe Engineering)

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Suitable Uses:

Geotechnical surveys, CPTS & coring equipment, deployment, geophysical survey including deep sea multibeam surveys, seismic survey operations, burial assesment including towed body deployment. ROV/SUB handling & support hydrographic projects.

Accommodation areas:

All fully air-conditioned for tropics
27 Cabins for 44 total
Ensuite cabins for client reps and Party Chief with Data ports and telephones/faxes in cabins.
2 x mess areas and a large TV lounge area with video library.
1 x Gymnasium

DP SYSTEM (Future Installation)

Due March 2000 - DP1/Joystick with dual referencing and acoustic position for ROV follow.

Machinery and Control

Main Engines

3 x Deutz BV8M Diesel Engines,
total 2700 BYP driving 3 x type AEG
600kW 500v DC Generators.

Main Propulsion

Twin Screw & twin rudders;
Diesel Electric, Power from generators drives
2 variable speed AEG 1100 shp propulsion
motors coupled to twin shafts/props.

Auxiliary Propulsion

Bowthruster: Schottel 340 shp fully retractable
omni directional unit.

Generators

1 x Deutz BV6M 536, 460kW 380v 50Hz AC
1 x Motorgen 460kW 380v 50 Hz AC
1 x CAT 380kW 380v 50 Hz AC
1 x 110KVA Perkins Unit

Power Supplies

1 x 450 KVA 380v 3 phase 50 Hz
1 x 380 KVA
1 x 220v (7KW) UPS supply for Lab
1 x 5Kw 50Hz/60Hz converter

Auxiliaries

Water Evaporators - 10 tons /day

Compressors - Seismic air source

3 x 1000 CFM JOY compressors driven by
3 x 1500HP V16 "CAT" engines.

Sewage/rubbish treatment

IMO approved treatment plant suitable for US
operations.
Rubbish compactor

Stern working (Safety)

Personal overboard RDF tracking system
MOB dedicated alarm system and safety
equipment deployment.
CCTV from bridge

Safety systems

Comprehensive QA system to ISO 9002/ISM
Compliance to Oil Co. Standard Safety audits

Deck area.

>450 Sq M of open deck areas for client
Mobilised equipment.
Additional workshops for dedicated client use
with Lathe & Pillar drills etc.
Considerable additional hold/storage areas

Internal Communications

PBX exchange to client cabins & bridge
2 x internal talkback systems
CCTV (Pan, Tilt, Zoom) colour on aft deck
Internal Network with Ethernet Hub and
HSDData/email access.

Work/Safety boats

1 x Humber 5.5M RIB Rescue boat with self
righting a 2 x 40 Hp Motors + HIAB launching.
1 x DOTI 4M MOB boat

Special Features

Laboratories - FULLY AIR conditioned.

100 SQM with benches UPS Supplies
1 x Gun shack with air controls
1 x deck workshop/ wet lab for client use
Data Transfer - HSD 64KBPS (ISDN speeds)
via Sat "B".
With internal multi-extensions exchange
Internal Network with HUB & server for client
areas and High speed data access.
NMEA Position & heading data socket

Handling Facilities

Twin Atlas marinised cranes amidships
2 x 2 tons swl "A" frames Midships for ROV
15 tons SWL hydraulic "A" frame (also
available with Submersible docking station
and integral winches).
1 x Gun deployment boom with 30ft
outreach over stern (Available ashore).
2 x streamer winches capable of operating
3500M each of 74mm streamer or cables
3 x addition survey winches - 6 tons pull for
umbilical use with internal slip rings.
2 x 3 Ton tugger winches at stern
2 x Hydraulic spooling drums for storage
Aft deck ship controls positioned over stern
with full thruster and main engine controls +
stern hydraulic controls.
1 x HIAB Aft for loading working aft deck

Navigational Outfit

1 x Anschutz + 1 x SG Brown gyro,
Anschutz & Cetrek Autopilots with NMEA
DGPS Unit + 2 x GPS.
Furuno FR1505 & Furuno 2110 with ARPA
Elac Echosounder, Walker speed log,
2 x Furuno GPS Navigator & DGPS, Furuno
Weatherfax.
ECDIS computer with DGPS tracking and
data output for route surveys.
NaviPak & Starfix available

External Communications

Full GMDSS to A3 including Inmarsat C
1 x Sailor VHF,
2 x Robertson VHF
1 x Furuno 1550 MF/HF Transceiver
Inmarsat "B" with internal exchange
Inmarsat mini "M"
GSM Mobile & GSM FAX system
Iridium Multi channel with PBX exchange and
internal billing system - 4LINES.
Internal comms throughout + CCTV to aft
deck areas.
64K BPS high speed data handling via Sat
"B" system.