



ULSTEIN®

# ULSTEIN SX120



## ULSTEIN SX120

M/V "OCEANIC VEGA"

Seismic Research Vessel



- ❑ Hull no. 285
- ❑ Designed by Ulstein Design & Solutions AS
- ❑ Delivered 2010 by Ulstein Verft AS
- ❑ Built for Eidesvik Seismic Vessels AS
- ❑ Chartered by CGGVeritas

**M/V "OCEANIC VEGA"** is a Seismic Research Vessel, designed by Ulstein Design & Solutions AS. The vessel is designed for satisfying the general demands of the seismic research industry. The vessel is equipped with a spread of streamer winches, towing points, and gun winches. The hull form, with the ULSTEIN X-BOW®, combined with a redundant diesel electric propulsion system, ensures the best performances with regard to speed and fuel consumption. The main propulsion system comprises two shaft line propellers of controllable pitch type in nozzles, each shaft line driven by two variable speed electric motors in tandem configuration.

**SPECIAL FEATURES**

- The seismic instrument room is located far aft on top deck, enabling a first class view of the towed seismic equipment at all times. Special attention has been given to the design ensuring an ergonomic space for human well-being in the work place.
- The large paravanes are launched and retrieved by the latest paravane handling technology.
- The large paravanes are safely launched and retrieved by two offshore rated cranes with operator cabins.
- The vessel is built acc. to IMO code for Special Purpose Ships (SPS).

**M/V "OCEANIC VEGA"** is an environmentally friendly ship in all respects. The ship is certified by Det Norske Veritas according to the rules for class Clean Design. A Green Passport complying with IMO ship recycling recommendations is issued.

**M/V "OCEANIC VEGA"** is built, equipped, and painted (tanks and exterior) in graving dock inside covered dock hall, ensuring controllable atmosphere and the best quality of work.

**MAIN DIMENSIONS**

Length over all	approx. 106.5 m
Length between p.p.	99.3 m
Breadth moulded	24.0/28.0 m
Depth to main deck	10.0 m
Draught max	8.0 m
Design draught	7.0 m

**TANK CAPACITIES**

Fuel oil (MDO)	3225 m <sup>3</sup>
Fresh water	565 m <sup>3</sup>
Ballast water	4690 m <sup>3</sup>
Lub. oil	156 m <sup>3</sup>

**VESSEL CAPACITIES**

Deadweight at 8,0 m	approx. 6013	tonnes
Gross tonnage, international	12550	GRT
Net tonnage, international	3765	NRT
Towing force at 5 knots	approx. 140	tonnes
Bollard pull	approx. 190	tonnes
Max speed (at d= 6.0m)	approx. 18.2	knots

**CLASSIFICATION / FLAG**

DnV ✕1A1, E0, NAUT-AW, OPP-F, CLEAN DESIGN, ICE-C, COMF-V(3), COMF-C(3), HELDK-SH, RP  
 Flag: NOR



“OCEANIC VEGA” is built with a hotel compliment with permanent capacity for 70 persons. Very low noise and vibration levels are recorded in the accommodation.

- Six crew state cabins with day-room and bedroom
- Six client state cabins with day-room and bedroom
- Fourty one-bed cabins
- Nine two-bed cabins
- Sick bay, separate hospital
- Galley, dish wash room, mess (49 seats)
- Two day rooms, smokers' day room, games room
- Dry provision, two cooler, and two freezer rooms
- Spacious instrument room for seismic personell
- Cold store for seismic data
- Misc. conference rooms and offices
- Wardrobe, gymnasium, sauna
- Laundry handling room, laundries, drying room
- Heli reception with internet café
- Engine control room on Main deck
- Small swimming pool (outside)

#### Seismic deck area:

- Gun workshop
- Equipment repair room
- Back deck office
- Rigging store
- Cable repair room
- Seismic equipment store

#### Deck Cranes

- Two Knuckle jib cranes with operator cabin  
SWL 15 t at 18 m outreach, Dynamic factor: 1.5.  
Designed for ship to ship operation  
Radio remote control

#### Side Thrusters

- One tunnel thruster fwd., 1200 kW, controllable pitch
- One tunnel thruster aft, 830 kW, controllable pitch

#### Roll Damping System

- Two roll reduction tanks

#### Manoeuvring/Positioning

- Joystick system with interface to the survey system for track functionality and simple dynamic positioning functionality.

#### Navigation / Communication

- S-band ARPA radar and X-band ARPA radar
- Digital chart system ECDIS
- Radio installation according to GMDSS – area A3  
Satcom C
- Fleet broadband 150
- Additional electronic equipment: See Owners delivery below

#### Internal Communication

- ULSTEIN COM® common distribution of IP automatic telephone, data network, and satellite TV antenna signal to all offices and cabins
- Batteryless telephone system, separate PA system, DECT
- TV satellite antenna
- IP TV in all cabins

#### Deck Winches

- Two combined windlass / mooring winches, 56mm K3
- One double mooring winch
- Two capstans, pull 10 t
- Four rope storage winches

#### Lifesaving and Rescue Equipment

- Two enclosed lifeboats with davits, each of 70 persons
- Four of life rafts each of 35 persons, in dedicated davits
- MOB boat with single point sliding davit
- Two Workboats in single point telescopic davits

#### WT Sliding Doors

- 18 off Watertight Sliding Doors

#### Cargo / Personnel Elevator

Capacity: 2000 kg, 26 persons, 5 stops

#### Helicopter Deck

Size: 26,1 m diameter, 14,7 tonnes.  
Approvals: DNV, Luftfartsverket, UK-CAA CAP-437

#### Sanitary Supply and Discharge System

- UV Sterilizer
- Vacuum Sewage Plant
- Sewage Treatment Plant, USCG approved
- Two Fresh water generators, each 25 m<sup>3</sup>/24h

#### Machinery / Propulsion System

- Diesel electric power and propulsion plant 690V - 60Hz:
- Four main generator engines, each of 3745 kWe at 900 rpm
  - Two main generator engines, each of 1870 kWe at 900 rpm
  - Two Electric propulsion motors in tandem configuration each side 0-6000 ekW, 0-720 rpm, (each 3000 ekW)
  - Two main controllable pitch propellers in nozzles, each 6000 kW, dia. 4200 mm, speed 40-135rpm
  - Emergency generator, 210 ekW

#### Oil Purification Plant

- Two FO separators, self cleaning, automatic
- Four LO separators, self cleaning, automatic
- One mobile hydraulic oil separator
- USCG approved Bilge water separator

#### Fire Detection System

Stand-alone addressable fire detection central

#### Video and Monitoring System

25 cameras, 4 monitors

#### Fire Fighting System

- Water mist fire fighting plant serving engine room etc.
- Local protection system (water mist)
- Water mist fire fighting for Switchboard rooms, Seismic compressor room, Hydraulic aggregate room, Incinerator room, Cable repair store, Seismic cold room

#### Electric Equipment. ULSTEIN delivery

- Main switchboards 690 V
- Switchboards 440 V, 230 V
- Emergency switchboard
- ULSTEIN COM®
- ULSTEIN IAS® (Integrated Automation System)
- ULSTEIN NAV (on bridge)

#### Owner's delivery

- Seismic winches
- 3 off Seismic H.P. compressors
- HP air manifold
- MOB boat
- 2 off Seismic workboats
- Gantry crane on top deck
- High accuracy doppler speed log
- Echo sounder with 3 off transceivers
- 2 off V-Sat

#### Seismic winches

- Double Gun winches
- Double streamer winches
- Double spooling devices with vertical chute
- Double spooling devices with spectrum fairlead
- Towing points, moveable with telescope
- Towing points, with telescope
- Spectrum blocks for towing points
- Wide tow winches
- Auxiliary winches with swingblocks
- Tension wire winch for gun deck
- Transverse towing point w. two winch wagon
- Transverse cable clamp
- Transversable spooling rack top deck
- Spread rope winches
- Slipway tool
- 2 off 1.2 MW HPU Hydraulic pressure units with Cooling and filtration unit
- 2 off Paravane davits



### ULSTEIN VERFT AS

Ulstein Verft AS is one of the world's foremost suppliers of advanced vessels; primarily anchor handling tug supply vessels, platform supply vessels and specialised and multifunctional vessels. The shipyard serves as Ulstein Group's development base for the detail design and assembling of capital and equipment intensive specialised vessels and is the Group's most important expertise base for carrying out projects.



### ULSTEIN GROUP

Through continuous exchange of knowledge and experience we have developed into a trendsetter within ship design, shipbuilding, electrical & control systems and sales & service world wide. We have about 800 dedicated employees in nine countries that are the foundation on which our company is building its future. They are ready to meet the demands for new and environmentally friendly solutions.

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