

Ship Design 1: Luxury Cruising/Diving Liveaboard M/V Jerry



MAIN CHARACTERISTICS:

Length overall: 76.6m

Beam: 13m

Design draft: 3m

Design displacement: 1600 t

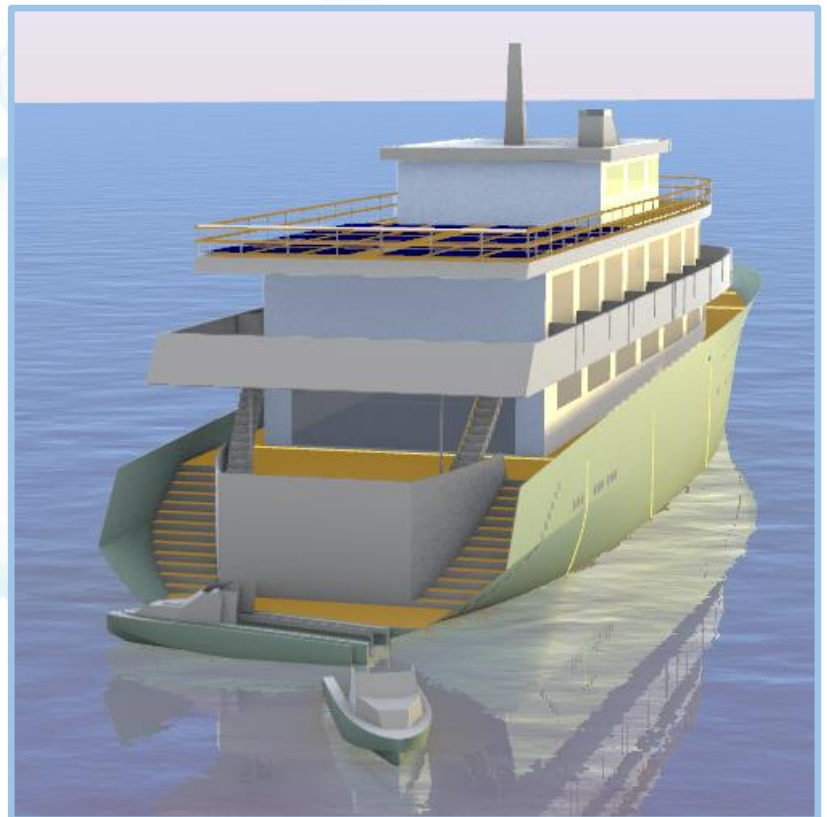
Design speed: 15 knots

Installed power: 5520 kW

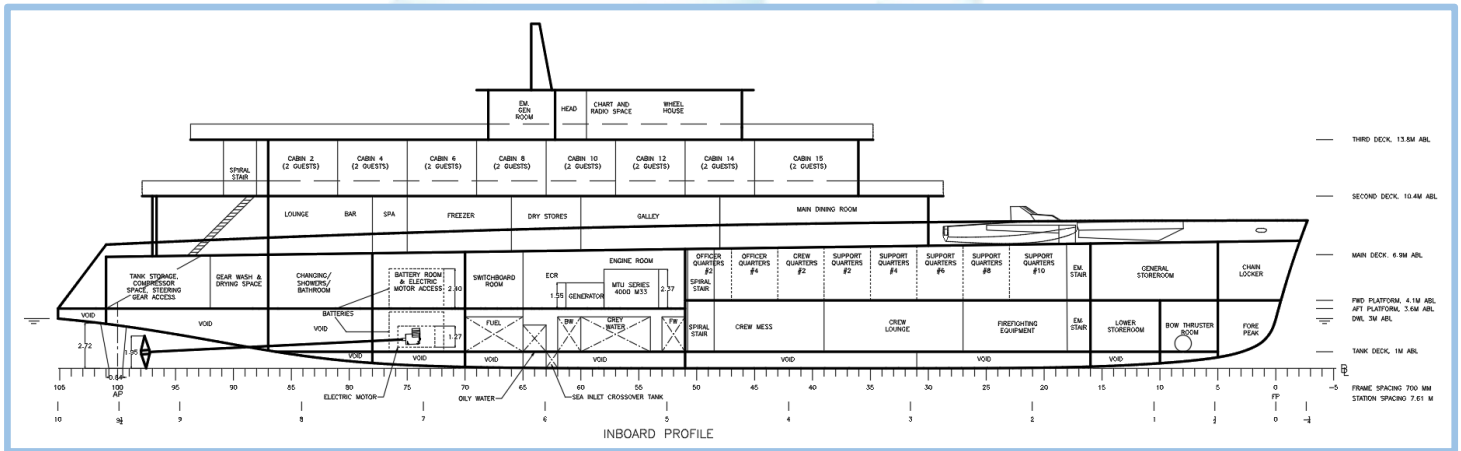
Complement: 58 Persons

MISSION:

- Replace owner's aging fleet of wooden hulled diving liveaboard vessels.
- Offer one- and two-week diving excursions throughout the western Pacific.
- Provide 30 passengers a luxury travel experience



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MAIN DIMENSIONS:

LOA: 76.6 m
LWL: 73.6 m
LPP: 70.0 m
Breadth: 13.0 m
Depth: 6.6 m

SERVICE SPEED

Design speed: 15 knots
Range: 500 nm
Zero emission speed: 10 kts
Zero emission range: 25 nm

CAPACITIES

Fuel: 60 m³
Water: 24 m³
Grey Water: 70 m³
Black Water: 24 m³
Oily water: 9 m³
Sludge: 9 m³

MACHINERY

Engines (x3): MTU Series 4000 M23S – 1840kW
Emergency Genset: MTU Series 60 – 410kW
Propulsion Motors (x2): ABB M3LP 500 – 2000kW
Battery Storage (x6): MTU Energy Pack QS – 550kWh

ACCOMODATIONS:

- 15 passenger double berths
- 10 passenger support double berths
- 2 crew double berths
- 4 officer single berths

LUXURY FEATURES:

- All passenger berths feature private balconies
- Ample lounge and dining spaces
- Spa and Library
- Bridge lounge open to passengers

MISSION SYSTEMS:

- Air, Nitrox, and Tri-mix capacity for 2 weeks of intensive diving over 30m.
- 2 x 8m tenders for embarking/disembarking or diving operations
- Quantum QC2200 XT Extendable Stabilizer Fin

GREEN TECHNOLOGY:

- Hybrid electric propulsion system allows for short range zero emission operation in environmentally sensitive areas.
- Solar power generation

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- Hometown: Santa Barbara, CA
- Work experience:
 - Jeff Hull Custom Boats
 - Stolt Tankers
 - Marine Group Boat Works
- Other relevant experience:
 - Sailing team Co-Captain
 - Surfboard builder
 - Building really cool 11.5' outboard skiff
- Career plans: Live off the grid and build neat little experimental boats

- Hometown: Waterloo, Ontario
- Work experience:
 - Shipyard electrical production, General Dynamics NASSCO
 - Naval Architecture, Bath Iron Works.
 - Hydrostatics, Electric Boat.
 - Propulsors, Naval Surface Warfare Center, Carderock Division.
- Other relevant experience: Dinghy sailing
- Career plans: Naval Architect

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- Hometown: Woodbridge, VA
- Work experience:
 - Metal Shark Boats
 - Stolt-Nielsen Tankers
 - Naval Surface Warfare Center Carderock Division, Surface Ship Hydrodynamics Maneuvering and Seakeeping Branch
- Other relevant experience:
 - Avid enjoyer of all things boat and cruising
- Career plans:
 - Carderock Maneuvering and Seakeeping
 - Masters in Engineering Management

- Hometown: Stonington, CT
- Work experience:
 - New England Boatworks Composites Shop
 - Global Foundation for Ocean Exploration
 - Lyman-Morse Boatbuilding Design Office
- Other relevant experience:
 - Sailing Instructor
 - Offshore and Dinghy Sailing
- Career plans:
 - Sailboat Yacht Design
 - Ocean Engineering