



Selene 78 Ocean Explorer [4171]

Description

The smaller sister to the 98 Ocean Explorer the 78 has the same features but just in a slightly smaller boat.

This boat is the result of an international collaboration of designers and architects under Howard Chen's design team leadership. Working closely with renowned Dutch architect Guido De Groot and a group of International consultants they have developed a contemporary take on the long range yacht whilst capitalizing on builder Jet Tern Marines quality construction and reputation for experience and innovation in the displacement yacht sector.

General:

Name:	Selene 78 Ocean Explorer
Year:	2019
Price:	\$3,542,000 USD
Boat Type:	Power
Hull Type:	Displacement Motoryacht
Location:	Offshore
Hull Material:	GRP
Engine/Fuel:	Diesel

Dimensions:

- LOA: 78'6"
- LWL: 70'11"
- Beam: 21'9"
- Draft: 6'4"
- Displacement: 108 ton

Builder/Designer:

- Builder: Jet Tern Marine
- Designer: Guido de Groot/Howard Chen

Construction

A Hull lamination:

1 Hull lamination schedule per construction plan, the area below water line to use "Isophthalic" Gelcoat and vinylester resin for the first five (5) layers. Deck lamination schedule per construction plan. Construction plans pertaining to structure to be based on standards set by the AMERICAN BUREAU OF SHIPPING (ABS).

Engine

Main Engines

Port Main Engine:

- Cummins QSL9 405 Hp @ 2100 rpm Heavy duty rating rating. Wet exhaust & 24VDC starting
- Gear Box: ZF 360, 2.917:1 reduction
- Alternators: 24VDC, 80AMP
- Walker "Air Sep" crankcase ventilation
- Two (2) 4D batteries connected in series for 24VDCstart
- Engine beds to have 1/2" stainless steel cap on top of bed and 1/4" plate on sides, plates are to be highly polished stainless steel.
- Each engine mounted on (4) resilient mounts
- FRP drip pan under engine

Starboard Main Engine:

- Cummins QSL9 405 Hp @ 2100 rpm Heavy duty rating rating. Wet exhaust & 24VDC starting
- Gear Box: ZF 360, 2.917:1 reduction
- Alternators: 24VDC, 80AMP
- Walker "Air Sep" crankcase ventilation
- Two (2) 4D batteries connected in series for 24VDC start
- Each engine mounted on (4) resilient mounts
- FRP drip pan under engine

Engine Controls and Panels:

- Three (3) stations: pilothouse, fly bridge, aft deck.
- Engine instrument panels with alarm that will monitor Tachometer, Engine oil pressure, Engine

Engines:

- No. of Engines: 2
- Engine Brand: Cummins QSL9
- Engine(s) HP: 2 x 405
- Cruising Speed: 10
- Max Speed: 14

Tankage:

- Fuel: 4200 gal
- Water: 600 gal
- Holding: 250 gal Grey

Propellers:

- 1 NiBrAl alloy 4 blade counter rotating propellers. Propellers to be built to I.S.O. class 1

Propeller Shafts:

- 1 Aqualloy 22 or equivalent, 3" diameter
- 2 Taper details: Standard SAE
- 3 Line cutters on each main engine shaft

Stern tubes:

- 1 Material: FRP
- 2 Bearings: rubber cutlass type
- 3 Stuffing Box: bronze
- Fuel Filter(s):
- 1 Two (2) Racor 75-900MAX duplex filters in addition to secondary engine mounted filter for each engine
- 2 One (1) Racor 75-500MA filter in addition to secondary generator mounted filter for the generator engine. Optional second filter for optional generator.

water temp, System voltage, Gear oil pressure and fuel burn for each main engine. Cummins Vessel view display for pilot house & fly bridge (2 units)

Electrical System

The AC electrical system:

- 1 The vessel is fitted with two (2) 240VAC shore inlets at the stern. Ships shore power is fed through a 12KVA, 220-250VAC, 50/60Hz isolation transformer. AC selector control switches allow the operator to select the source(s) of power from either the generator(s) or shore power. The HVAC (air conditioning) may be operated from the ships shore power or from its own dedicated shore power inlet which is also equipped with a 12KVA, 220-250VAC, 50/60Hz isolation transformer. The air conditioning may be operated from either 50 Hz or 60 Hz service. AC service is distributed through custom electrical panels containing 240VAC and 120VAC sections, volt and amp meters and individual breakers and fuses for branch circuits.
- 2 Two (2) 12kVA shore power isolation transformers and two (20) shore power input connections at the stern of the vessel.
- 3 120/240VAC, 7.0kVA inverter system for limited ships power, control power to the helm station and for refrigeration during times when the generators and shore power are offline.
- 4 AC Outlets are standard US format 120VAC. Locations TDB
- 5 All outlets in head compartments, mechanical spaces, exterior and galley are GFCI type. All external outlets have water proof covers.
- 6 One (1) Glendinning shore power cord retrieval system provided for the 240VAC, 50 amp. ships shore power connection. The system to be provided with 50' of shore power cable. Shore power inlet to be located at the stern of the vessel.

The DC electrical system:

- 1 The DC electrical system is a 24VDC distribution system with a maximum capacity of 800 amp/hours. The DC system is to provide power the ships inverter system and provide power to the helm station DC equipment, and ships service. DC service is
- distributed through custom electrical panels containing 24VDC and 12VDC sections, volt and amp meters and individual breakers and fuses for branch circuits.
- 2 Standard batteries are located per machinery layout drawing
- 3 24VDC ships battery bank - Consists of 12, 2 volt AGM batteries @ 800 A/H each connected in series. A total battery bank capacity of 800 amp/hours is provided for emergency, control, ships equipment and limited operation without operation of a generator or shore power connection.
- 4 12VDC helm power is drawn from one 200 A/H battery and a 24 to 12VDC converter system
- 5 Port main engine starting - (2) AGM batteries connected in series for 24VDC starting. Switching logic to parallel with 24VDC ships bank for emergency starting.
- 6 Starboard main engine starting - 2 AGM batteries connected in series for 24VDC starting. Switching logic to parallel with 24VDC ships bank for emergency starting.
- 7 #1 Generator starting- (2) - Group 31 AGM batteries connected in series for 24VDC starting. Switching logic to parallel with 24VDC ships bank for emergency starting.
- 8 #2 Generator starting- (2) - Group 31 AGM batteries connected in series for 24VDC starting. Switching logic to parallel with 24VDC ships bank for emergency starting.

Interior

- 1 Teak, cherry or oak veneer (straight grain or mountain grain)
- 2 Bulkheads, teak or cherry veneer
- 3 Formica finished ceiling & bulkhead for bathroom
- 4 Drapery or blinds for saloon & each stateroom
- 5 Grab rails, teak
- 6 Headlining, acoustical vinyl
- 7 Push button for all door lockers & drawers
- 8 Carpet, teak & holly or wood parquet interior floor for cabins
- 9 Metal non-skid flooring for engine room
- 10 Floating floor
- 11 Tinted tempered window glass 10~12 mm
- 12 Clear tempered glass 12mm for front
- 19 Interior door lock sets to be chrome brass
- 20 Interior cabin doors to have rubber gaskets for sound reduction and door hooks
- 21 Hanging lockers to have automatic interior lights controlled by micro switch. Lined with Cedar.
- 22 Solid (non louvered) cored doors for heads and staterooms 1.25" thick with rubber gaskets on door jambs
- 23 Interior teak woodwork including cabin sole in pilot house to be varnished with 60% gloss varnish
- 24 Salon tables, pilothouse table to be varnished with high gloss varnish
- 25 All hand rails to be teak.

- windshield
- 13 Corian or granite head floor
- 14 Granite galley counter top w/back splash
- 15 Granite head counter top w/back splash
- 16 Interior steps to all teak. Corner of steps to have nonskid varnish.
- 17 Interior lockers and drawers to be locking with chrome push button
- 18 Interior overhead panels - Removable, held in place by Velcro.

- 25 Structural bulkheads dividing staterooms and heads to have ¾" furring strips on each side to allow application of ¾" thick sound insulation. The finished bulkhead material of 3/8" thickness to be applied over this.
- 26 Mirrors are located thru out vessel as shown on interior drawings
- 27 All drawers to have stainless steel ball bearing slides

Master Cabin

Master Cabin:

- 1 Floors: Carpet with 2 lb./sq. ft. 1/2" thick Soundown under lamen pad
- 2 Cabinet/paneling: Varnished teak
- 3 Mattress: Standard Queen size
- 4 Port and starboard berth cabinets & drawer bureaus
- 5 Full high wardrobe and dressing room with automatic light and aromatic cedar liner
- 6 Safe located at master stateroom
- 7 Sofa and coffee table to port master cabin
- 8 TV/Video cabinet
- 9 Desk with stool
- 10 Teak headboard frame

Master Stateroom En-suit Bath:

- 1 Floors: Ceramic or stone tile to be specified with order
- 2 Counter top: Granite with bull nosed edges
- 3 Mirrors and towel bars: As shown on drawings (TBD)
- 4 Molded FRP shower stall with frameless glass doors
- 5 Cabinet/joiner work: All teak
- 6 Locker and drawer interior finish: Formica
- 7 Toilet paper holders: TBD
- 8 Vanity unit w/integral wash basin, 2 sets
- 9 Teak removable grating panel for shower room
- 10 Medicine cabinet with mirror
- 11 Vanity mirror w/teak frame

OnDeck

EXTERIOR, DECK HARDWARE and EQUIPMENT

- 1 All horizontal surfaces on deck to have a diamond pattern nonskid as shown in deck plan - standard nonskid to be a contrasting color to parameter deck
- 2 Stainless 316 handrails 2"OD with electro polished bases. All rails shown on drawings to be standard in addition to those specified
- 3 Handrails at transom
- 4 Hand rail around aft deck coaming 2" dia.
- 5 Handrail on underside of aft deck overhang 1 1/2" O.D.
- 6 Hand rail at port and starboard side boarding doors
- 7 Recessed hand rails from lower deck to P/B deck
- 8 S/S 316 Hawse fittings with rollers:
- 9 S/S 316 18" bollards per drawing
- 10 Upper rub rail cap to be 316 stainless steel 1/4" fastened with flush 316 stainless steel fasteners. Stainless steel caps on upper and lower rub rails as shown in design.
- 11 Teak Decking on main side decks
- 12 Settee, molded fiberglass with cushions at foredeck and aft deck
- 13 Manship ports in hull and deck as shown on design. Ports positioned as per layout drawings.
- 14 All opening ports to be fitted with screens and deadlights

Horn:

- 1 Kahlenberg dual trumpet #D-1 with chrome finish and fog timer 230VAC compressor w/24VDC solenoid

Deck hatches:

- 1 Per deck plan, Lewmar #70 "Ocean Series" to include insect and privacy screens. One
- (1) Lewmar #60 "Ocean Series" to include insect and privacy screens.
- 2 Install (1) Lewmar #70 "Ocean Series" on the port side of the lower platform to access the flybridge hardtop.

Windows:

- 1 Windows 10-12mm" thick tempered glass
- 2 All side windows to be tinted glass
- 3 All salon and pilothouse windows are recessed 1".
- 4 All salon windows to have storm plate receptacles

Exterior Doors:

- 1 Aluminum doors by Pacific Coast Marine as

- 15 Fixed window in day head

Cockpit:

- 1 FRP settee with Sunbrella cushion set
- 2 Table w/stainless steel table pedestal
- 3 Fresh water deck wash in transom
- 4 Saltwater wash down in transom
- 5 Steps to transom integrated port and starboard
- 6 Teak Decking

Flybridge:

- 1 Richie Compass
- 2 Helm station w/console box
- 3 S/S destroyer steering wheel
- 4 One (1) Selene helm seats
- 5 Corian integrated wash basin w/folded faucet
- 6 FRP table (1 or 2)
- 7 Chart counter top
- 8 FRP settees (1 or 2) w/storage underneath, w/Sunbrella cushion set
- 9 Built-in FRP locker P&S
- 10 Mini bar with S/S grab rail
- 11 Tender storage space on the fly bridge deck

Bow (Sundeck):

- 1 One (1) FRP settee with cushion set
- 2 One (1) Table w/ S/S table pedestal
- 3 FRP bar unit

Anchor Storage:

- 1 Stainless steel 316 anchor pockets port and starboard.

Rails and Stanchions:

- 1 Stainless steel 2" dia. 316 rails and stanchions on upper deck and F/B deck . Rails to have welded on round bases with fastening studs on bottom and dual 1 1/2" divider rails as shown on drawing.

Foredeck Rail:

- 1 Foredeck to have 316 elliptical stainless rail with 2" diameter stanchions. Welded to round bases with fastening stud welded on bottom.

Windshield Wipers:

- 1 "Exalto" two (2) speed self-parking motor, with wash system for three (3) front windows
- 2 #EX2167.32 wiper motor 223BS 24VDC/23Nm, for (1- 3/8" {9.5mm}) bulkheads
- 3 #EX2135 T1 Pantograph arm 17.7"-23.6" (450-600mm) adjustable
- 4 #EX2174 curved wiper blade 17.7" (450mm)
- 5 #EX2159 Combo switch for single wiper 24VDC
- 6 #EX2143 24VDC solenoid valve for wash system
- 7 #EX2136.03 tubing retainer strip
- 8 #EX2184 Washing Jet for type 1 adjustable

follows (Note: interior as well as exterior PCM doors are included in this schedule):

- 2 Pilothouse--2ea, Weather Tight Dutch door, one L.H. Mortise hinge, one R.H. Mortise hinge. C.O. 21" x 73"
- 3 Salon after--1ea, Weather Tight double opening door with all glass panels. 48" x 73"
- 4 Salon port side, Weather Tight door, one RH Mortise hinge
- 5 Engine room--1ea, Water Tight model no. PCM4170-W with sound blanket core, painted. L.H. surface mount hinge. C.O. 21" x 73".
- J Boarding doors: 1 Port and starboard - opening in two pieces. Top to fold up and over and bottom to open outboard. Stern doors on port and starboard side aft per drawing. Doors to have "blind" dog lock/handles. Each provided with built-in boarding ladder.

Davit:

- 1 2200 LB capacity hydraulic/240VAC davit with extendable boom to 20 feet mounted per drawing.

Bottom treatment:

- 1 Five (5) layers of epoxy barrier coat and three (3) coats of anti fouling paint

Deck Drains:

- 1 Bridge deck and Fly Bridge deck to drain through 2" deck drains.
- 2 Lower side decks to drain through freeing ports and scuppers.

Control stations:

- 1 Port and starboard side of forward bridge deck equipped with helm controls, bow and stern thruster controls, start/stop/horn.
- 2 Aft deck control station equipped with helm controls, bow and stern thruster controls, start/stop/horn.
- P FRP hardtop over F/B:
- 1 FRP hardtop over F/B with molded in non-skid 4"dia. Stainless steel support stanchions at forward end, port and starboard
- Q Stern capstan winches:
- 1 Two (2) Maxwell VC 2200 port and starboard cockpit

Flag Staff:

- 1 60" teak flag staff with 1 1/2" socket for aft P/B deck rail.
- S Anchor:
- 1 Two (2) 200 lb. stainless steel POOL type
- T Anchor Chain:
- 1 Two (2) Lengths, 400 ft. 1/2" (12mm) chain
- **Swim ladder:**

- pantograph arm
- 9 #EX2186 plastic bulkhead connector for 19.7" (500mm) (new style)
- 10 #EX2154 Tubing 1/4" (6.35mm) soft black x 5 meters
- 11 #EX2157 Tubing 1/4" (6.35mm) hard black for push fit plumbing fittings x 5 meters
- 12 #EX2129 elbow 6x.24" (6mm)
- 13 #EX2166 T-coupling 6x6x6mm
- 14 #EX2119 straight coupling , 1/4" (6.35mm)
- 15 #EX2105.025 Gallery with adjustable spring to tension wiper against window

Swim Platform:

- 1 Three (3) 2 1/2" diameter "U" shaped rails across swim step
- 2 Teak Decking

Foredeck lockers:

- 1 (2) flush style port and stbd. as shown on drawings. Hinges to be Freeman Style "Large Yoke" with gas shocks

Deck Locker Misc.:

- 1 All deck lockers and stowage boxes to be fitted with stainless steel gas shocks of the proper rating.

- 1 Stainless steel with teak steps mounted on swim step under FRP hatch accessible from water

Tender Docking:

- 1 Two (2) fold up style 10" cleats on swim step port and starboard for dinghy tie up
- **Anchor Windlass and Fittings:**
- 1 Dual matched set of Maxwell VWC 4000 hydraulic three (3) station controls pilothouse, fly bridge, aft deck and foot switches with chain counters and band brake and 1/2" (12mm) chain gypsy x 2
- 2 Chain stoppers with devils claw chain tensioner for 1/2" diameter chain
- X Exterior locker doors:
- 1 All exterior locker doors to use flush stainless steel pull rings for latches
- 2 All exterior locker doors to have stainless steel louvered vents
- 1 Port and starboard side of F/B deck

Inventory

Optional Extras

STANDARD EQUIPMENT

- 1st Onan 33kw Generator
- 2nd Onan 17kw generator
- Aqualloy 22 propeller shafts or equivalent
- ABT TRAC #370 digital stabilizers system with 12sq ft. fins and dual station control
- Kobelt hydraulic steering system
- 220lb capacity hydraulic/240V AV davit with extendable boom 20 ft.
- Two Maxwell VWC 3500 Windlasses
- Two Maxwell VC 220 Capstans at port and starboard cockpit
- One 50 gallon with dual 240v elements hot water system
- ESI Fuel polishing system
- Reverso oil change pump
- BEP electrical main circuit breaker panels
- Seafire fixed fire extinguishing system
- Tecma fresh water toilets
- Cruisair air conditioning system
- Liebert or equivalent home size large refrigerator in the galley
- Raritan or equivalent ice maker
- Siemens or equivalent microwave

OPTIONS:

- Awlgrip, Alexseal, or Awlcraft PU painted color hull
- Davit upgrade to 3500lbs.
- Under water lighting
- Teak deck on F/B helm station
- Teak deck on Portuguese bridge deck, fore deck.
- Teak coaming on rail for foredeck, aft deck and fly bridge
- Helm Navigation, Communications and Entertainment package Ships monitoring system for all vital system onboard
- Upgrade the stabilizers to the ABT Trac Star system (at anchor stabilization). Note this requires the optional generator to be installed with increased capacity and hydraulic PTO to drive the system while at anchor.
- Rear & E/R camera monitoring system
- Passarelle

Pilothouse

- 1 Floors: Teak - varnish
- 2 Cabinet/joiner work: Varnished teak
- 3 Counter tops and instrument panel faces: Formica #939 dark gray
- 4 Teak table at settee to slide in and out.

- 5 Settee aft with chart drawers under
- 6 Helm seat - Stidd 500N-2X2 Low Back
- "Slimline". Ultra-Leather and pedestal color are buyer's choice
- 7 Chart table w/Cantalupi "Rico" chart light
- 8 Locker interior finish: Formica
- 9 Book shelves and chart drawers as located per interior drawings
- 10 Top of instrument console to be wrapped in
- black leather or ultra leather

Crew Cabin

- 1 Floors: Carpet with pad
- 2 Cabinetry and joiner work: Formica with teak trim
- 3 Mirrors as shown on interior drawings
- 4 Hanging lockers with Cedar wood lining
- 5 Book shelves and lockers outboard of lower berth
- 6 Drawers under berths
- 7 Mattresses: Custom 5" thick foam
- 8 Aft stairway to crew cabins and engine room
- 9 Bulkheads to be finished: Varnished teak
- 10 Washer/Dryer
- 11 Forced air ventilation system with adjustable blower

Crew head

- 1 Floors: Lonseal #154 Sandstone
- 2 Cabinetry: Formica with teak trim
- 3 Shower to be molded FRP
- 4 Counter tops: Granite with bull nosed edges
- 5 Aluminum/glass bi-fold shower door
- 6 Towel bars TBD
- 7 Toilet paper holder TBD
- 8 Full height mirror over sink L Forward port and starboard guest cabins
- 1 Floors: Carpet with 2 lb./sq. ft. 1/2" thick Soundown under lament pad
- 2 Cabinet/paneling: Varnished teak
- 3 Hanging locker interior finish: Cedar wood
- 4 Dresser outboard
- 5 Drawers under bunk
- 6 Mattresses: Custom 5" thick foam
- 7 Night stands next to bunk
- 8 Teak headboard frame

Saloon

- 1 Floors: Carpet with 2 lb./sq. ft. 1/2 thick
- Soundown underlayment pad
- 2 Sofa with hi-lo foldable teak parquet table
- 3 Entertainment center w/pop-up TV cabinet
- 4 S/S sliding door for saloon entrance
- 5 OceanAir blinds w/drapes
- 6 TV lift for 50" plasma TV on side of salon (TV not included)
- 7 Prewire for surround sound speakers
- 8 Teak valance/air con soffit P&S and aft sides of salon
- 9 Two overhead teak hand rails
- 10 Mullions along port and starboard side for installation of window treatments
- 11 Overhead to have perimeter recess with strip lighting

Dining Room:

- 1 Leaf style dining table seats for 6 persons or a circular table w/settee for 4 and two loose chairs
- 2 Cabinet storage below windows to starboard
- 3 Wood/mirror overhead lighting over the dining table area

Day Head:

- 1 Floors: Teak
- 2 Counter top: Granite with bull nosed edge
- 3 Mirror and towel bar as shown on drawing
- 4 Cabinet/joiner work: All teak
- 5 Locker and drawer interior finish: Formica
- 6 Toilet paper holder and Towel bar: TBD

Vip Cabin

Galley

- 1 Floors: Carpet with 2 lb./sq. ft. 1/2" thick Soundown under lament pad
- 2 Cabinet/paneling: Varnished teak
- 3 Mirrors as shown
- 4 Hanging locker with Cedar wood lining
- 5 Drawers under berths
- 6 Mattresses: Custom 5" thick foam x 2
- 7 Forced air ventilation system with adjustable blower
- Vanity mirror w/teak frame
- 1 Subzero or Liebherr home size large refrigerator *
- 2 Microwave *
- 3 Electric range and oven *
- 4 Dishwasher *
- 5 Trash compactor *
- 6 Exhaust fan *
- 7 Granite counter tops
- 8 S/S double sink
- 9 Single lever swivel type retractable faucet
- 10 Overhead cabinets
- 11 Drawers & storage lockers w/shelves under counter
- 13 Sliding doors to galley to have frosted glass panels

