



OCEAN CLASS

carboninfusion

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SPECIFICATIONS

Model: OCEAN CLASS

Naval Architect: CATANA Design Team

Structural warranty: 5 years

Hull length: 14.99 M (49'2")

Length overall: (with fixed bowsprit) 15.75M (51'8")

Maximum beam: 7.98M (26'2")

Draft, daggerboards raised: 1.17M (3'10")

Draft, daggerboards down: 2.49M (8'2")

Unladen weight: 12.7T (28,000 lbs)

Engines: 2 x 45 hp saildrive

Diesel: 2 X 400 L (2 x 105 US gal)

Fresh water: 2 X 400 L (2 x 105 US gal)

CE Certification: Cat. A : 10 pax, Cat. B : 14 pax, Cat. C : 16 pax, Cat. D : 22 pax

DESIGN PRINCIPLES

Inclined hulls and fine entry bows to benefit heading and speed

Mast set farther aft with large foretriangle for balance under sail and ease of handling

Good bridgedeck clearance for optimal comfort at sea

Fine daggerboards to reduce drag with electric raising and lowering

Expanded loft-style living space that includes a large living room, spacious L-shaped kitchen, dedicated office and lounge area with a large sleeping berth

CONSTRUCTION

Integral structure manufacturing process

The hull/deck/main bulkhead joints are ensured by carbon fiber structural bonding and filleting. The entire hull/deck unit is a one-piece, non-deformable structure with exceptional stiffness and durability.

Sport structure and finish

- Hulls and deck in PVC/glass and carbon cloth sandwich infused by Vinylester resin with anti-osmotic qualities.
- Coachroof, chainplate reinforcements and omega hull and deck reinforcements in carbon cloth impregnated with Vinylester resin.
- Main structural bulkheads (PVC/carbon cloth sandwich) infused with Vinylester resin.
- Bilges painted in light gray.
- Hull finish in gray gel coat
- Matt finish under nacelle
- Finish under nacelle leading edge and aft beam in gloss.
- White gel coat deck with integrated non-slip
- Composite daggerboards sliding on PTFE bearings without wells
- Hull-deck joint by gluing with lamination at the stress zones (leading edge, chain plates, beam and compression beam cleats)

EXTERIOR

Mast / Rigging

- Anodized aluminum mast
- LED masthead anchor light
- Exits for mainsail halyard, solent halyard, Code 0 or Gennaker halyard and topping lift
- Combined LED steaming light/decklight
- Luff track on ball bearing slides
- Padeye for attaching lazyjacks
- Masthead wind instrument
- Anodized aluminum boom with spacers and lazy bag
- Anodised aluminium front beam with LED stern light
- Anodized aluminum compression beam
- Hinged bowsprit with 1 x 19 stainless-steel bobstays
- Rod rigging stainless steel forestay
- Furler on forestay
- 2 stainless steel 1 x 19 capshrouds
- 2 lower shrouds

Sails

Reinforced sails:

- 92m² fully battened, triradial cut, square-topped, mainsail in PRORADIAL, with 3 reefs, 6-row stitching
- 50 m² self-tacking solent in PRORADIAL, triradial cut, 6-row stitching, UV strip in same color as the lazybag

Running rigging

- All running rigging returned to the helm station
- Mainsail halyard with Dyneema core
- Double mainsheet
- Solent halyard at the foot of the mast
- Code 0/Gennaker halyard led back to the steering station
- Solent sheet led back to the steering station
- Solent furling line
- 3 Reefing lines (N°1, N°2, N°3)
- 3 Reefing points (N°1, N°2, N°3)
- Boom topping lift
- 2 Flag halyards
- Adjustable foot tension

Deck hardware

Centralized fittings near the helm station

- 1 Electric Winch (Harken - radial) for mainsail halyard + 3 reefing lines + headsail halyards (if optional)
- 1 Manual Winch (Harken radial) 3 Reefing lines + Edge + Boom topping lift + Mainsheet
- 1 Winch (Harken radial): Solent sheet + Spinnaker halyard (if optional)
- 2 Winch cranks + cases

Mainsail:

- Double purchase, 4-line sheeting
- 2 Padeyes for mainsheet
- 2 Boom preventer padeyes on deck edge

Solent:

- 1 Sheet track forward of the mast
- 1 Track single slider for halyard tensioning
- 1 Furling line led back to the helm station with clutch
- 1 Sheet clutch

Sail maneuvers led back to the helm station:

- 3 Reefing tack clutches
- 3 Reefing line clutches
- 1 Clutch for mainsail foot tension
- 1 Main halyard clutch
- 1 Topping lift clutch
- 1 Solent clutch

Mainsail cover:

- Battened lazy bag in fabric, choice of colors, with "CATANA" logo, and adjustable Ø 8 mm lazy jacks in Dyneema

Anchoring

- Lofrans 1700W/12V windlass with vertical axis
- Corded remote control connected in the anchor locker
- Windlass handle for manual operation
- Pivoting bow roller in stainless steel for main anchor

Deck equipment

- 2 Smoked plexiglass panels for access to the bow lockers
- 2 Polyester panels for engine hold access with diamond point anti-slip
- 2 Polyester panels for access to leading edge lockers with non-slip diamond edge
- 1 Roof hatch over galley in smoked plexiglass with blind and mosquito net
- Gas struts for all deck hatches

- 2 White lacquered aluminum davits with Spinlock clutches on each davit
- 2 Tender hoisting tackles with stainless steel snap shackles on dedicated winch
- 2 Daggerboards sliding on PTFE bearings and electrically operated from the helm station

Safety:

- Lifeline attachment points around the coachroof
- Handrails on coachroof
- Handrails on the edge of the rear skirts
- High-comfort trampoline with braided mesh, lashed mesh by mesh.
- 2 Forward pulpits with white Polywood seat
- Aft railing in stainless steel tube
- 8 Stanchions
- Double Dyneema retroreflective guardwires
- 2 Gates for gangway
- 6 Large size aluminum mooring cleats
- 2 Aluminum mooring cleats inboard side of sugarscoops

Coachroof top:

- 3 LED exterior ceiling lights on dimmer
- Sternlight LED

Exterior equipment

- Access to the deck via GRP steps anti-slip diamond type
- 1 Bench seat lounger in the aft beam large storage locker with RTM polyester lid on rams
- 1 Built-in bathing ladder port transom with handrail
- 1 handheld shower (hot/cold water)
- 1 Passerelle socket in starboard sugarscoop
- 1 Emergency tiller access plug on each sugarscoop
- 3 Skirt step lights - courtesy LED

Foredeck (Mast foot area)

- Large anchor locker with access by locker lid on ram
- Space for life raft with automatic release system

Helm stations / Rudders

- Helm seat with footrest in teck
- Coachroof-integrated helm console making backrest for sail maneuvering station
- Magnetic steering compass with protective housing and lighting
- Gray fiberglass steering wheels Ø 1000 mm
- 2 Suspended balanced rudder blades, mounted on JP3 spherical self-aligning bearings
- 1 Emergency tiller
- Mechanical transmission steering system with Dyneema lines and ultra low friction ball bearings
- Manual engine controls at the helm station with engine instruments and alarms
Large space for marine electronics

Sail Locker

- LED lighting
- Removable ladders fixed on the inside of the hulls.

INTERIOR LAYOUTS

General

- Fronts of the furniture : PVC foam sandwich, laminated decor
- Laminated PVC foam sandwich floors in the hulls and PVC cladding on the nacelle
- PVC ceiling and liner linings

Comfortable saloon completely open to the outside

- Saloon accessible by 4-leaf sliding door sliding to starboard with clear glazing.
- Panoramic view through 3 large forward windows and wide lateral plexiglas windows
- Ventilation through 2 large opening front bay windows and 2 side bay windows for total opening
- L-shaped seat with storage
- Folding saloon table with integrated bar for 8 people
- Dimmable recessed LED spotlights
- Courtesy lighting in the ceiling
- 2 AC outlets (220/50hz or 115/60hz)

Raised saloon for panoramic view

- Deep L-shaped seat that can act as a watchkeeper's berth
- Coffee table
- Under-seat storage

Galley:

- Galley with large resin countertop
- 1 stainless steel sink 1½ bowl
- 1 selective waste bin
- Pressurized hot and cold water
- 4 AC outlets (220/50hz or 115/60hz)
- 1 x 4-burner gas hob with pot holder and gas shutoff tap
- 1 stainless steel gas oven with grill and gas shutoff tap
- Refrigerator 267L (9.4 cu ft)
- Freezer 98L (3.5 cu ft)
- Space provided for a 9-cover dishwasher + extra fridge + cellar (options)
- Dimmable LED spotlights

Chart table:

- Large chart table with instrument console
- Console for electrical switch panel
- Chart table seat on swivel
- 1 chart table reading light
- Technical access under chart table
- 1 AC outlet (220/50hz or 115/60hz)
- 1 USB outlet

Owner's hull (Port side)

- Access via wide companionway steps with the same floor covering as the hull.
- Hull closure by lockable sliding door

Aft cabin owner's version:

- Semi-Island bed with padded headboard
- One-piece slatted base + hydraulic cylinders with direct access to the heater
- 2 bedside tables
- 1 Large shelf with storage space on the inboard side
- 1 Drawer and under-bunk storage
- 1 wardrobe + 1 cupboard with shelves
- Chest of drawers
- Bench seat with dressing table
- Mirror on sliding doors
- Ventilation by hull portholes + 1 porthole in aft bay window, giving onto the deck
- Large fixed window in outboard topsides
- General lighting by LED spotlights in the ceiling with dimmer and 2 bedside reading lights.
- 1 AC outlet (220/50hz or 115/60hz)
- 1 USB outlet
- Low level courtesy lighting

Owner's bathroom (3-cabin version):

- Private access from the cabin
- Built-in resin washbasin
- Tall cabinet with mirror and lighting
- Separate shower with glass screen, shower column, storage for toiletries and blackout curtain
- Bathroom accessories (1 coat hook)
- Lighting by large fixed window
- Ventilation through hull portholes
- LED ceiling spotlight on dimmer switch
- Storage under basin
- Space for optional washing machine
- 1 AC outlet (220/50hz or 115/60hz) in tall cabinet

Separate owner's heads compartment (3-cabin version):

- Fresh-water electric W.C.
- Ceiling LED spotlight
- Porthole with blackout blind

- 1 toilet brush and toilet paper holder

Guest hull (Starboard)

Aft guest cabin:

- Access by door from the passageway
- Semi-Island bed with padded headboard
- One-piece slatted base + hydraulic cylinders with direct access to the heater
- 1 Large shelf with storage space on the inboard side
- Storage cupboards and 1 hanging locker
- Ventilation by 2 hull portholes (in plexiglas window) + 1 porthole in fixed aft window giving onto deck
- General lighting by LED spotlights on dimmer and 2 bedside reading lights
- 1 AC outlet (220/50hz or 115/60hz)
- 1 x USB outlet
- Low-level courtesy lighting

Heads compartment 1-shower/1-WC version:

- 1 Fresh water electric W.C.
- Toilet accessories (brush and toilet paper holder)
- 1 Large separate shower with satin plexiglas screen and ventilation via 1 hull porthole
- Bathroom accessories (1 coat hook, toiletries storage)
- LED Spotlights
- Unit with built-in basin and storage
- Wall cabinet with mirror and lighting
- 1 AC outlet in wall cabinet

Heads compartment 2-shower/2-WC version:

- 2 Fresh water electric W.C.s
- Toilet accessories (brush and toilet paper holder)
- 2 separate showers with satin plexiglas screens
- Bathroom accessories (1 coat hook)
- LED Spotlights
- Unit with recessed basin and storage, mirror and lighting

Forward guest cabin:

- Access by door from the passageway
- 2 bunk beds (1,95m / 0,75m.) with padded headboard
- Storage space under the low berth
- Large shelf on inboard topsides
- Storage cupboards and hanging locker
- Ventilation by hull window (on plexiglass)
- General lighting by LED spotlights on dimmer and 2 bedside reading lights
- 1 AC outlet (220/50hz or 115/60hz)
- 1 x USB outlet

- Low-level courtesy lighting

TECHNICAL EQUIPMENT

Engine compartments

- 2 x 45 hp YANMAR diesel engines, soundproofed and totally separated from the interior.
- Engine panels and controls via mechanical cables at the helm station
- 2 saildrive transmission systems
- 2 fixed three-blade propellers
- 1 Diesel filter / water separator per engine
- Location for Watermaker
- Engine compartment illuminated by two LED striplights
- Gray gelcoat finish below waterline areas

Plumbing

- 2 independent 400L (113 US gal) diesel tanks with filler necks and overfill protection system (CE)
- Electric fuel gauges on screen at the chart table
- Diesel shut-off valves
- 2 Freshwater tanks of 400 L (105 US gal) each
- Electric water gauges on screen at chart table
- 2 Water pumps with pressure tank and safety interconnection system
- 2 water heaters – electric immersion and engine heat exchanger.
- 2 electric bilge pumps for engine compartment bilges
- 2 electric bilge pumps interior passageways
- Automatic activation of the 4 bilge pumps with visual alarm at the chart table
- 4 external manual bilge pumps
- Shower drains by automatic shower sump pumps
- Fully automatic black and gray water treatment plant
- Independent faucet at the galley sink providing microfiltered drinking water

Electricity

- 1 x 12V engine starter battery per engine
- 2 engine alternators, 12V 125A
- 1 x 12V service battery bank, 400AH Lithium (LiFePo4)
- 1 charger, 12V/30A
- Control of functions at the chart table via color touch screen
- Monitoring: tanks, batteries, alarm management
- 1 shore power connection 220V/115V with 15 m power lead