General Description

Overview:
Explorer yachts provide the truest essence of yachting's purpose, as they are specifically designed to throw off the bowlines, explore the great blue beyond and connect their owners to the water.

This is an exceptional opportunity to purchase a custom built motoryacht completed by one of New Zealand’s leading builders. Mana Moana has been built from the hull of a sleek Swedish Navy Patrol Boat into a stylish expedition style explorer with the combination of functionality and modern fit-out.

The hull conversion commenced in 2014 with design by renowned New Zealand naval architect Kevin Dibley. Also involved are Interior Designers including Kit Carlier and New Zealand Structural Engineers working together to create this beautifully appointed motoryacht.

The vessel can be sailed by the owner or with crew if assistance is required and separate crew accommodation is provided. The main accommodation includes three double cabins with ensuites plus a single cabin.

The build incorporates the latest strength and safety regulations plus surveyed to comply with the rigorous requirements of the Australian commercial vessel rules, NSCV 2B. The compliance survey has been carried out by the experienced Naval Architects and Surveyors, Sea Spark Limited. This special custom build incorporates all the aesthetics, ergonomics and efficiency expected in today’s latest designs.

The vessel is currently over 50% complete with the custom fit-out remaining.

With New Zealand winning the America’s Cup we expect heightened interest in quality craft such as this readily positioned in the South Pacific Region. It also reflects the example of what can be achieved with a combination of the best workmanship and efficient control of capital expenditure.

Design Brief:
Mana Moana has a modern low semi-displacement hull form to create a sea-kindly and fuel efficient performance. The design brief was for a vessel that has a sleek low profile, with a very stable and highly efficient hull form. A go anywhere, anytime motoryacht that a couple could use with family and friends. The interior design allows for good entertainment with larger groups, but is comfortable and private for family, guests and/or charter.

Propulsion is provided by twin 740 HP MTU engines for a reliable and low maintenance operation with a long-distance cruise speed of nominally 10 knots and a top speed exceeding 20 knots

Construction:
The hull is constructed from Grade A steel plate with frames and stringers and the superstructure is balsa cored fibreglass for strong and lightweight performance. The low semi-displacement hull form provides efficiency and low power consumption. To achieve this a low VCG (vertical centre of gravity) has been implemented to maintain the safety at sea aspect of the design.

Additionally, all tankage is low in the bilges and keel of the hull. Another beneficial aspect of the design is for all the major weights, such as the engine room and tankage, to be located close to the LCB (longitudinal centre of buoyancy) to reduce pitching in a seaway. This assists maintaining constant trim between Full and Lightship loads.

Mana Moana is designed and built to the rigid Australian NSCV LR SSC-2B survey requirements.

PRINCIPLE DIMENSIONS
LOA: 24.765m (81ft 3in)
Length water line: 21.600m (70ft 10in)
Beam: 5.550m (18ft)
Draft (max): 1.550m (5ft 1in)
Displacement (lightship): 58,950 kg (129,961 lbs)
Fuel: 7,500 litres (1,981 US gallon) (14,067 lbs)
Water: (436 US gallon) (1,640 litres) (3,615 lbs)
Displacement loaded: 67,730 kg (149,317 lbs)
Interior:
The interior comprises two large guest cabins amidships, and a spacious owners cabin forward, as well as a separate ‘overflow’ cabin/office to port. Separating these cabins is a TV/Entertainment lounge area that is luxurious and spacious.

Right aft with a separate external entrance from the aft cockpit, is a very comfortable additional cabin offering more privacy. On the main deck is the large formal Saloon with panoramic views.

Positioned forward is the large and well-designed Galley. The Helm Station is forward and is open to the aft accommodation, but can be closed off when required such as when underway at night.

Aft of the formal saloon is the mid deck where there is access to the flybridge and dayhead. Further aft again is the lower aft cockpit with boarding platform and all the space required for deep sea fishing and other water activities.

SPECIFICATION
Style: Semi Displacement Planning Hull form
Fuel efficiency: High
Hull material: Steel
Superstructure: Light-weight (fiberglass with balsa core)
Engines: 2 x 740 bhp MTU
Cruise Speed: ~ 9.7 knots
Range: ~ 2300 NM
Top speed: ~20 knots
Coatings: Refer below
Certification: Australian survey (NSCV 2B)
Note: Performance is subject to sea trials

ENGINE ROOM & MACHINERY
Main Engines: 2 x MTU S60, 740 hp (552 kW) @ 2300 rpm
Transmission: 2 x ZF IRM 350AL 2.636:1 ratio with 7° down angle
Propeller: 2 x Briski 39 x 38.5 TK 4 Blade Nibral
Propeller shaft: 2 x Ø3 inch Aqualloy 22
Flexible Coupling: 2 x Centa CF-AM-600
Cruise Alternator: NA
Cooling system: Sea water heat exchanger
Main Exhaust: Wet exhaust with underwater exits
Main alternator: Onan 22.5 kVA
Secondary alternator: Onan 22.5 kVA
Start Batteries: 2 x N200 series connected 24V (x 2 sets)
House Batteries: 1 x 1000 Ah 24V battery bank
Inverter: 2 x Magnum 4 kW
Solar panels: 2 x 100w contoured on bimini roof
Fuel Capacity: 7500 litres
Fuel Transfer Pumps: 1 x Oberdorfer 230V
Fuel Filter: Dual Racor 1000MA filters
Bilge Pumps: 6 x Johnson 24V pumps
Black water tank: 500 litres
Grey Water Tank: 1150 litres
Black & Grey Water Pumps: 2 x 0.75 kW 230V pumps
Fresh Water Tank: 2 x 820 litres
Hot water cylinders: 4 x 50 litres
Fresh Water Pressure Set: 2 x Grundfos 0.75 kW 230V pump sets
Water Maker: Stella 240AC with auto flush 240ltrs/hour, WM4215C HP pump with 1.5 kw 230V motor
Bow Thruster: Lewmar 300TT 15kW 48V
Steering Gear: Hydrive Pack 3 240V electro-hydraulic power steering system
Engine Room Ventilation: 1 x 1.5 kW axial fan 230V

EXTERIOR OUTFIT
Anchors: 1 x 115 kg (250 lb) Manson plough
Anchor Cable: 110 metres of 14mm din766 short link hot-dip galvanized
Anchor Winch: Quick Roy Windlass 14mm 5.5kW 316SS with chain counter and display
Cable Stopper: Quick chain stopper
Hawse Pipes: Self-launching stainless custom anchor fitting
Bollards: 2 x double bitt stainless steel on fore deck. 4 x crucifix type stainless steel to mid and aft deck
Fairleads: 8 x stainless steel oval type
Belling: 1½” half round polished stainless steel
Caprails: Oval teak caprail to bulwark top
Handrails: 1½” polished stainless steel
Rope Lockers: Two on foredeck with watertight covers
Skylight: 2 x Lewmar 20, 1 x Lewmar 70 opening hatches on the foredeck
Tender – stowage and launching: Yes
Boat Davit: Davco (or equivalent) selection to be confirmed
Searchlight: 1 x hand-held spot light
Boarding Platform: Integral boarding/swim platform
Compass: Ritchie (or equivalent)
Teak Decks: Boarding platform, aft deck, Burmese teak laid with Sika system
Thermal Insulation: Glass wool insulation to steel hull above the waterline in accommodation
Structural Fire Protection: Isover mineral wool for engine room lining

INTERIOR FITOUT
General: Modern yacht look consisting of matched veneers to bulkheads and doors with solid cabinet fronts.
Upholstered deck head panelling throughout
Deckheads: Removable upholstered panels.
Bulkheads: Mix of timber veneer, upholstered panels and vinyl wall coverings
Floors: Upper accommodation level all areas Amtico (or similar) pre-finished plank flooring. Lower accommodation carpet. Ensuites ceramic tile.
Timber Finishes: Interior timber clear satin finish, non-grain-filled, polyurethane
Cabinetry: Exterior surfaces to be teak veneer with solid teak rails and corner posts. Interior of cabinets to be timber/plywood (sealed) or laminate.
Beds: Beds to be fitted with inner sprung mattresses with drawers below.
Interior Tables: Interior table tops to be timber veneer with solid timber margins.
Exterior Furniture: Molded fiberglass lockers and seating.
Exterior Tables: Exterior table tops to be Himacs (or similar) solid laminate.
Window Treatments: Upper saloon side windows to be fitted with blinds. Sleeping cabin ports to be fitted with blinds or curtains. Master cabin skylights to be fitted with blackout screens.

LOWER SALOON
Lower Saloon: L shaped settee to starboard with storage cabinet aft and lockers above.

UPPER SALOON
Upper Saloon Dining: Built in settee with storage under. Fixed dining table on double pedestal
Upper Saloon Port: Small table on single pedestal fixed to wall with 2 x loose chairs.
Entertainment: Cabinet for entertainment electronics in upper saloon with TV on port aft bulkhead (pivoting).

GALLEY
Counter Tops: U shaped Himacs or granite/composite with double basin.
Dish Washer: Fisher & Paykel Dishdrawer™
Oven: Miele H6260BP Clean Steel Pyrolytic
Hobs: Miele KM6317 4 Autoboost Zones
Fridge: Samsung SRF679SWLS fridge/freezer
Freezer: Samsung 318L Pigeon Pair freezer
Microwave: Miele H6400BM Clean Steel
Extraction Fan: Zeihl 240V range hood fan

PILOTHOUSE
Control Console: Pilothouse helm console with raised instrument panels and switch boards below.
Helm Chair: Double settee to starboard.
Chart Table: Full size chart table with Formica (or similar) top and chart drawer under.
Book Shelf: One on aft wall sized for almanacs and nautical publications.
Navigation Equipment: Navigation instruments as per NSCV requirements
Wipers: 5 x Vetus 24V windscreens

ACCOMMODATION
Master Cabin: Full width double berth cabin forward with ensuite. Hanging locker to starboard. Low level cabinets port and starboard with storage lockers above.
Skippers Cabin: 2 x Symmetrical guest cabins with convertible double/single berths and ensuites. Hanging locker and low level cabinet inboard. Storage lockers outboard.
Single Guest Cabin: Single guest cabin to port single berth and hanging locker

ENSUITES
Showers: Enclosed glass cubicle showers lined with Formica (or similar) laminate.
Heads: Vetus SMTO 24V macerator type.
Vanity Tops: Himacs or granite/composite.
Cabinetry: Vanity unit with cupboards. Medicine cabinet with mirror fronts above.

EXTERIOR FURNITURE
Aft Deck: L shaped seating to port with fixed dining table.
Fly Bridge: Wrap around seating to port and starboard with fixed dining table to port. Helm seating to port and starboard with instrument console and controls.

IMPORTANT: The Company offers the details of this vessel in good faith but cannot guarantee or warrant the accuracy of this information nor warrant the condition of the vessel. A buyer should instruct their agents, or their surveyors, to investigate such details as the buyer desires validated. This vessel is offered subject to prior sale, price change, or withdrawal without notice.

New Zealand custom design 80ft Explorer Motoryacht Images