

Brief Specification for a 60' High Speed Motoryacht

General

Type	High Speed Stepped Monohull
Design	Brooklin Boat Yard/Bruce Johnson
Engineering/Naval Architecture	Michael Peters Yacht Design
Interior Design	TBD
Builder	Brooklin Boat Yard

Principal Dimensions

Hull

Length over all (l.o.a.)	62'-7"
Length waterline (l.w.l.)	49'-4"
Beam (max)	16'-6"
Draft	3'-2"
Displacement (lightship)	55,000 lbs.
Cruise Speed	45 knots
Top Speed	60 knots

Technical Information

Construction hull

Cold molded wood Epoxy construction throughout
 Laminated keelson and chine logs
 Laminated shell plating with carbon fiber interlaminare, solid below the datum waterline and cored in topsides
 Carbon fiber structural grid over laminated floors and stringers
 Laminated engine beds
 Cored plywood structural bulkheads with Corecell foam and internal stiffeners

Construction deck

Cored fiberglass superstructure and cockpit
 Teak applied to cockpit sole

Interior styling

Interior joinery style is classic American style as Bequia with white raised and fielded panels above counter height and varnished wood below, as selected by owner
 Raised panel doors, anti-rattle catches
 Structure is exposed where practical, such as overheads



Cabin soles to be solid teak (no splines), cored panels, floating and varnished
Countertops to be Corian, varnished solid wood or equivalent
Cabinet hardware tbd

Main Engines

2 x MTU 8V-2000, common rail injected, turbocharged and intercooled marine diesel rated at 1,250hp @ 2,450 rpm

Gearboxes

2 x Twin Disc MGX-6598 DC Quick Shift

Engine mounts

Flexible isolation mounts, Rubber design or equal

Fuel System

2 x Racor double element filter

Exhaust system

Direct water injection type with surge chambers

Propeller & Shafting

2 x Arneson surface drives
2 x Carbon fiber intermediate shafts
2 X Rolla propellers

Steering System

1 x custom wheel

Generators

1 x Northern Lights M673LD3 5kW diesel generator in sound enclosure

Tank Capacities

Fuel oil	675 US gallons
Fresh water	100 US gallons
Grey water	40 US gallons
Black water	40 US gallons

Bow Thruster

Maxpower CT125/24V 12hp tunnel type, electric



Fresh water system

- 2 x pressure set (hydrophore) systems in tandem
- 1 x hot water heater

Grey water system

- Gravity drain system
- Perimeter drains in showers, solid sole
- Grey water tank ventilated
- Overboard discharge or shore side via Y-valve

Black water system

- Vacuflush vacuum toilet system with holding tank
- Overboard discharge or shore side via Y-valve

Bilge water system

- 4 x 24VDC submersible bilge pumps
- 1 x manual pump, at base of companionway ladder.

Fridge

- Isotherm 120V/AC 160 flush mounted refer drawers (under counter)

Domestic equipment

- Force 10 two-burner electric stovetop

HVAC

- Central chilled water system with air handlers (fan coils), Dometic or equal
- Extraction fans in showers

Engine room ventilation

- The engine room ventilation will consist of separate intake and exhaust grills located in the cockpit with water-traps and drains
- Exhaust line will include axial blower fans for negative pressure

Electrical system

- 120VAC system 60 Hz with shore power
- 24VDC system
- 2 x optional alternators on main engines
- Power management system, Mastervolt
- 2 x Battery chargers, Mastervolt
- 1 x converter for 24VDC to 12VDC for electronic instruments
- 2 x starting battery



4 x house battery

Navigation equipment

Raymarine e Series multifunction for charting and navigation, radar and autopilot
Raymarine high definition color 48nm radome
Raymarine RS GPS receiver on transom

Communication equipment

VHF, ICOM or equal

Entertainment equipment

Stand-alone entertainment equipment in main salon and cockpit

Insulation

Acoustical insulation in engine space, Soundown or equal

Deck hardware

Custom stainless steel by Builder
8 x Accon Marine retractable cleats set in stainless rub rail and in swim platform

Hatches and doors

Power sunroof, Marex or equal
Companionway door custom by builder, stainless steel
Pantograph deck hatch over transom steps, automatic

Anchor handling

1 x Danforth, manually deployed with rope rode

Safety equipment

1 x life raft in valise
12 x life jackets
1 x EPIRB
1 x life ring

Firefighting equipment

Fireboy-Xintex clean agent fire suppression system in engine space
Portable fire extinguishers for accommodations and engine room

Paint system

Akzo Nobel International / Awlgrip paint system
Varnished topides

Center Harbor Road • PO Box 143 • Brooklin, Maine 04616



Non-skid on foredeck with gloss margins
Antifoul paint

Mast

Navigation mast to be of wood with airfoil spreaders
Custom flag staff for ensign