12m Mono Hull Motor Yacht for Barber Boats

Specification.

Principal dimensions.

LOA – 12.00m

LWL - 10.39m

Beam – 4.10m

Draft – 1.235m

Displacement – Approx. 9,000 kgs

Fuel – 1,200 L

Water – 600 L

Engine – Scania D109 400 Hp at 2100 rpm.

Gearbox – ZF 286 A, 1.75 : 1 ratio.

Shaft – 2 ¼" (57mm) Dia. 2205 stainless steel.

Prop – 710mm Dia. 4 blade.

Rudder – Chatfield R131 cast bronze with 2 ¼" Dia. 2205 stainless steel stock.

Rudder bearings, tube, tiller - Chatfield Engineering.

Shaft seal, tube, bearings – Chatfield Engineering.

General construction.

Glass over ply. Epoxy resin used throughout.

Hull shell of cold moulded Meranti plywood, 3 layers of 6mm for hull top sides, 4 layers of 6mm for the hull bottom and transom.

Topside panels skinned with one layer of 850 gm Quadraxial E glass cloth each side.

Hull bottom panels skinned with one layer of 850 gm Quad and a second layer of 600gm Quad each side.

Timber framing in the hull and deck of clean, straight grained, tantalised Kahikatea. Kelson, stem, gunwale, deck beams, cabin framing, etc.

External surfaces of the deck skinned with a single layer of 400gm plain cloth or 400 gm Double Bias, overlapped or double layer around corners and edges.

All plywood edges to be cut back and capped with timber before glassing over.

Cockpit sole, side decks, fore deck, aft platform out of 12mm Meranti ply over Kahikatea beams and doublers glassed over on the external surface with a single layer of 400 gm DB.

Fore cabin top and fly bridge deck out of 3 layers of 6mm Meranti ply moulded over 60 x 40 mm laminated mahogany deck beams at 400mm centres. Glass over with one layer of 400 gm DB cloth.

Cabin coamings out of 12mm thick Meranti plywood over ex 38mm Kahikatea framing. Glassed over with one layer of 300 gm plain cloth.

Flybridge coamings and sub structure out of 9mm thick Meranti plywood over ex 25mm Kahikatea framing. Forward coming and radiused corners moulded out of 3 layers of 4mm Meranti plywood. Glassed over with one layer of 300gm plain cloth.

Internal structural bulkheads out of 12mm thick Meranti plywood bonded into hull shell with 2 layers of 600gm DB tapes each side.

Hull bottom longitudinal and transverse floors out of 18mm meranti plywood with single layer of 600gm DB cloth each side bonded into hull bottom and to adjoining structures with 2 layers of 600gm DB tape.

General fit out specification.

Exterior.

Maxwell RC12 electric anchor winch, capstan and gypsy.

Rocna (or similar) 20 kg high hold anchor with chain to rope anchor rode.

Spare anchor and chain of similar spec.

Fabricated stainless steel double bow roller/fairlead.

32mm dia. stainless steel bow rail with 25mm dia. stanchions and intermediate wires.

38 x 5mm stainless steel flat bar rubbing strip along gunwale and lower belting.

4 x Lewmar opening hull portlights.

‘Cule’ deck hatches. 2 x CLW62-ASIL and 2 x CLW10-ASIL.

Stainless steel cockpit sink sink with mixer tap under flush cover in aft cabinet.

Isotherm ‘Cruise 65’ 65 litre fridge/freezer in aft cockpit cabinet.

2 x 1 ½” Sch. 10 stainless steel support posts to aft end of fly bridge deck.

32mm dia. rail with 25mm dia. stanchions around fly bridge aft deck.

Fabricated mast on FB for nav lights, radar, nav aerials, VHF, etc.

6mm acrylic screen on FB coaming with 25mm dia. stainless steel rail along top edge.

FB helm seat bench with upholstered seat cushions.

Non-slip paint finish to all horizontal deck surfaces (teak option for cockpit and aft platform).

8mm thick clear, toughened, glass fwd windows. 6mm tinted, toughened, glass side coaming windows and sliding side door. 4mm tinted, toughened glass for cockpit bulkhead doors and window.

1 x 350mm and 6 x 250mm cast bronze mooring cleats from Chatfield Engineering.

25mm dia. stainless steel tube frame FB access ladder with ex 25mm thick teak steps.

Interior.

Cabin soles out of 12mm Meranti plywood over Kahikatea beams and doublers with lift out hatches for bilge access where required.

Internal partitions and structural joinery such as berth fronts and tops out of 12mm Gaboon plywood. Other non-structural fit out panels out of 9mm Gaboon plywood. Ex 25mm Kahikatea framing.

Tecma electric flush toilets x 2.

'Force 10' F63351 3 burner gas oven and hob with F70034 trim kit in galley.

Burns & Ferrall 05 CMR400I stainless steel galley sink.

Galley bench top, freezer bench top, galley servery shelf, bathroom vanity tops, and cockpit cabinet tops finished with 6mm thick 'Hi Mac' or similar, on 12mm plywood carcase.

Custom freezer box with 12V eutectic (Isotherm or similar) plate system, approx. 170 litres.

Isotherm C130 130 litre 12v fridge freezer under bench.

Marine Tech Industries 'Voyager, low back' adjustable helm seat, or similar.

Dining table on adjustable height pedestal, drops down to from sleeping berth in saloon.

House batteries and associated electrical equipment under helm seat.

12v LED lighting throughout vessel.

Hardwood trim (teak, mahogany, Oak, etc.) interior finishing to owner's spec.

Engine room sound insulation to underside of sole, hull sides above the waterline, fore and aft bulkheads of 2 layers of 12mm 'Vibar' insulation.

Engine room air intake through Seaworth water separator grill in stbd cabin side coaming with air shut off flap built in to base of intake duct.

2 x 600 litre fabricated alloy fuel tanks in engine room space.

1 x 600 litre fabricated stainless steel water tank (or welded polyethylene) under the cockpit sole.

1 x 40 litre Isotherm 'Basic' hot water heater in the engine room space.

1 x 80 litre welded polyethylene black tank, gravity drain – fwd toilet.

1 x 135 litre welded polyethylene black tank, gravity drain – aft toilet.

Marine Exhausts Ltd water lock muffler, 6” in, 8” out, fibreglass exhaust system.

‘Hydrive’ (or similar) hydraulic steering system – 2 helm stations.

3 x 5,500 L/Hr submersible electric bilge pumps, in fwd bilge area, midship bilge (engine room), and aft bilge.