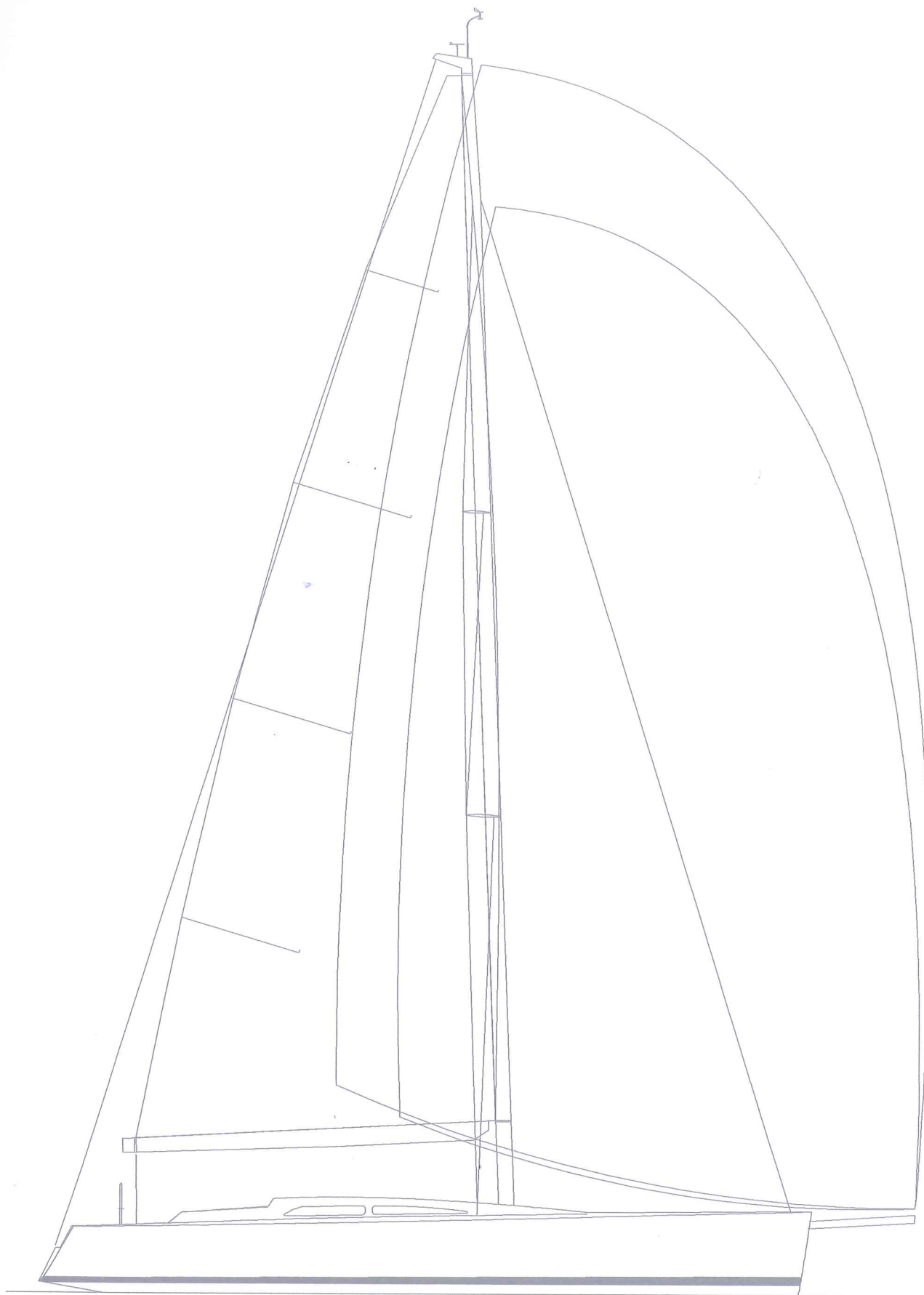


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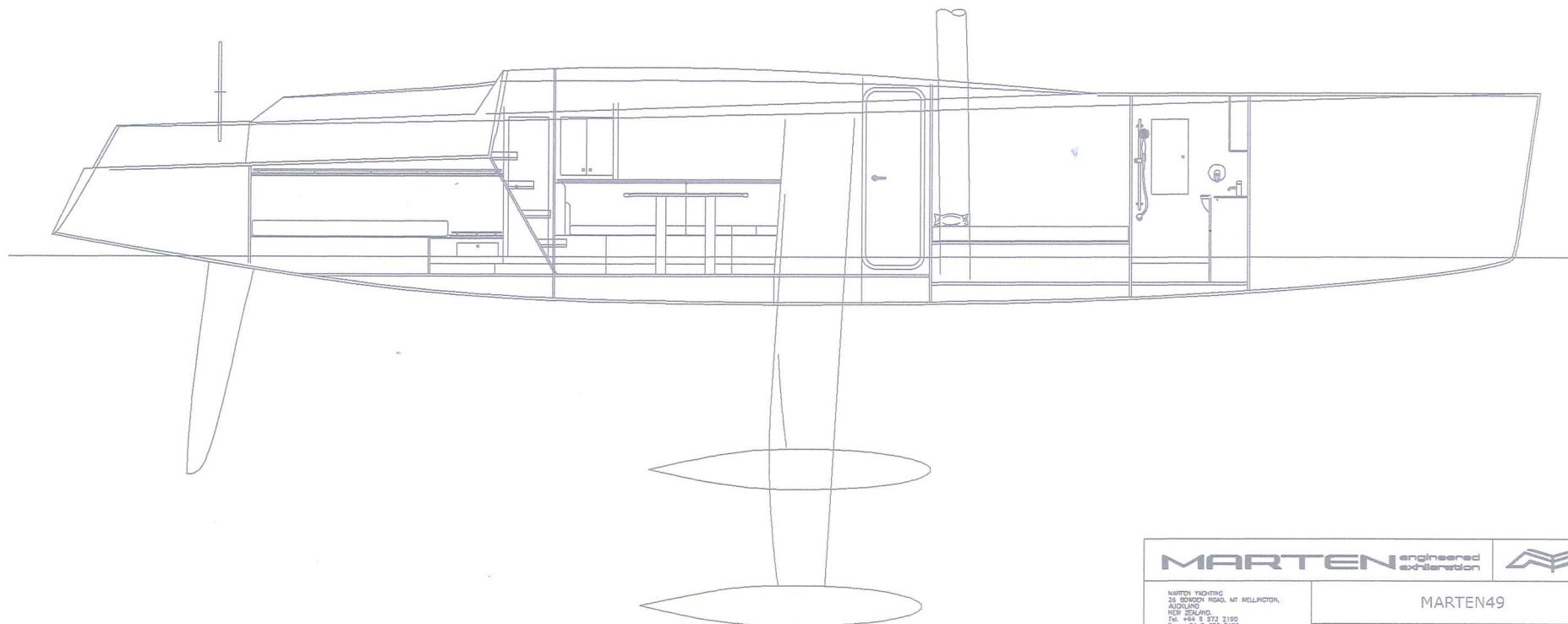


MARTEN**49**

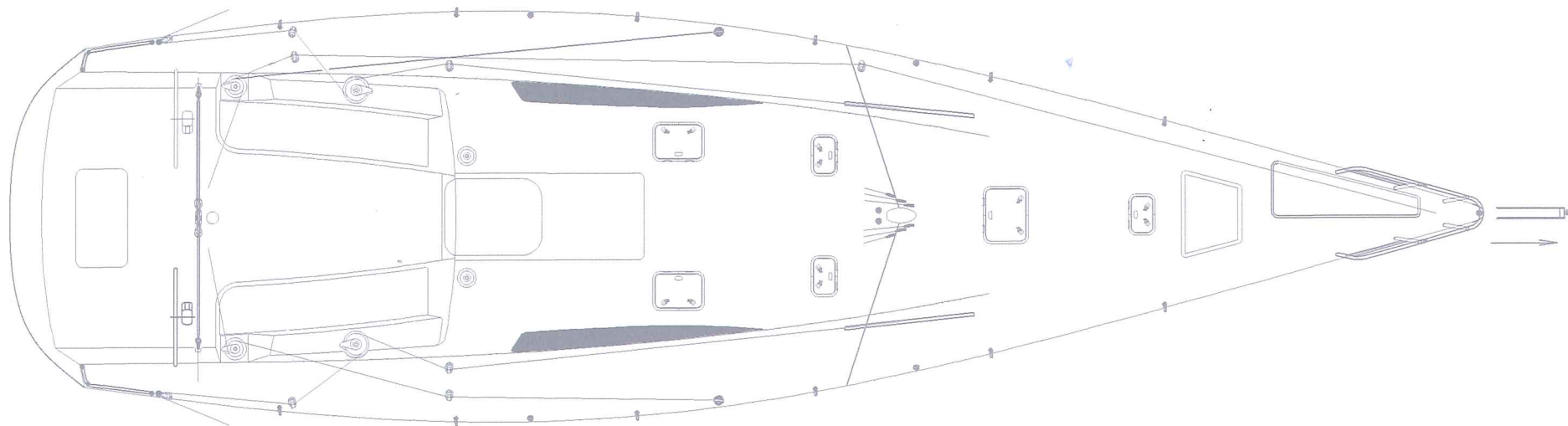




MARTEN engineered and delivered	
10000 HOLLAND 10000 HOLLAND 10000 HOLLAND 10000 HOLLAND 10000 HOLLAND 10000 HOLLAND 10000 HOLLAND 10000 HOLLAND	MARTEN49 SAIL PLAN



MARTEN engineered excellence	
MARTEN YACHTING 26 BOWEN ROAD, MT WELLINGTON, AUCKLAND NEW ZEALAND Tel: +64 9 573 2150 Fax: +64 9 573 2159 Email: info@martenyachts.co.nz	MARTEN49 INTERIOR GA 1:30



MARTEN engineered
exhilaration

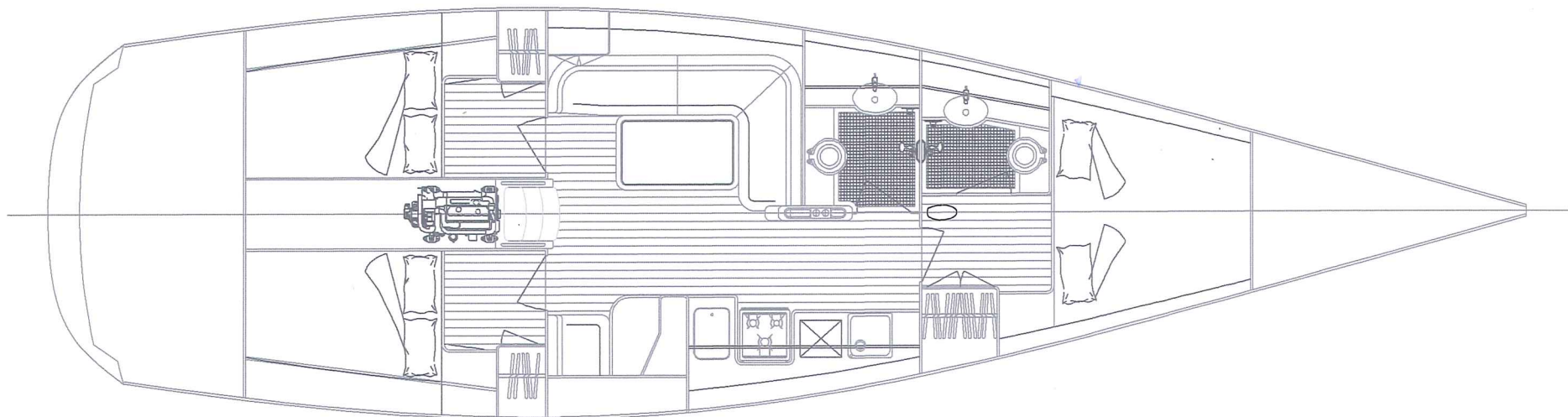


MARTEN YACHTING
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Email: info@martenyachts.co.nz

MARTEN49

DECK PLAN

1:30



MARTEN engineered adventure	
MARTEN YACHTING 26 SCHWEN ROAD, MT BELLEFANTON, AUCKLAND NEW ZEALAND Tel: +64 9 573 2100 Fax: +64 9 573 2109 Email: info@martenyachting.co.nz	MARTEN49 OP3 INTERIOR GA 1:30

September 2003

MARTEN49

49 foot Sports Cruising Yacht

Length	15m	49.21ft
Beam	4.15m	13.62ft
Displacement	11,229kg	24,755lb
Ballast	3413kg	7524lb
Draft	3.7m	6.89ft -2.1m keel up

1 DESIGN

1.1 Classification

The Yacht is built in accordance with the European CE-Certification and meets the requirements of the CE-directive 94/25/CE for recreational crafts.

These rules require a certain minimum standard of hull and deck strength, structural bulkheads and stringer, keel and rudder and their attachment to the hull, safety and stability, engine installation, gas installation, sea cocks, manuals and documentation of all major installations.

2 STRUCTURE

2.3 Hull construction

Construction is carbon fibre SPRINT with CoreCell foam cores. Reinforced at high stress areas with carbon fibre.

2.4 Internal structure

Bulkheads, structural frames, longitudinals, and centre case are constructed from 'E' glass and carbon SPRINT materials with CoreCell foam core.

2.4 Chainplates

Carbon fibre chain plates built into the hull laminate

3 PAINTING

3.1 Hull paint

The hull and deck are painted in a high quality "International" 2 pack polyurethane coating to a standard range of light colours.

1 Boot top stripe and painted underwater with international 'long life' antifouling

3.2 Deck Paint

Deck is painted with 'International' 2 pack polyurethane coating to a standard range of light colours with medium grip non-skid on all horizontal surfaces.

3.5 Joinery Finish

All interior joinery is finished with 2 pack semi gloss polyurethane clear coating.

4 INTERIOR

General

The interior is lightweight veneer finished with English Tawa. All joinery is built and finished to Marten Yachts high quality finish.

The modern interior is constructed using a mix of painted surfaces with timber veneers; there are handrails throughout with fabric-covered headliners.

4.1 Master Cabin

Large double wardrobe with hanger space and storage shelves, side sofa seat, centre double berth 200 x 140 cm with storage beneath.

There is a separate toilet with hand basin and vanity units forward of the owners cabin.

4.2 Head / Shower

Including "Jabus" manual pump toilet, moulded GRP sink, paper holder, mixer tap for hot/cold pressurized water, soap and cup holder, towels hooks, front opening lockers with mirrors, electrical bilge pump and one opening port light in the deck.

4.3 Aft Cabins

The yacht has 2 aft cabins. Both aft cabins have a large 200 x 140 cm double berth. Both aft cabins have a wardrobe with a shelf above and bedside unit. Opening cockpit port light in each cabin.

4.5 Salon

Curved sofa and dining table with storage under cushions, which doubles as a sea berth with lee cloth. The salon has a large central dinette table.

A utility hanging locker is positioned to starboard inside the companionway.

4.6 Navigation and Chart table

Navigation seat and chart table area.

Electrical switchboard with fuses etc. - see "Electrical system".

Provision for owner selected electronics.

4.7 Galley

Large galley has a hard wearing acrylic solid surface veneer with a built in 3 burner gas oven, a 50 litre front opened refrigerator and a 75 litre top opening freezer operating with a 12v cooling unit.

A stainless steel sink, mixer tap for hot/cold pressurized water and separate saltwater tap with foot pump, 4 x drawers 30 cm wide and an upper overhead cabinet for galley equipment/food storage.

Main companionway steps lift for access to the engine complete with seals and gas strut.

5 INTERIOR FITOUT

5.1 Interior Hardware

Interior taps and shower fittings are from 'Dorf'. Door fittings are Dalco handles.

5.2 Interior appliances

3 Burner Force 10 gas cooker, Provision for a microwave operating on an inverter.

5.5 Floorboards

Floorboards are marine plywood construction with timber veneer surfaces.

5.7 Upholstery

Cushions are made from multi density layers of foam.

An allowance has been made for upholstery to the owner's choice.

6 EXTERIOR FITOUT

6.1 Deck Fittings

4x popup mooring cleats, 8x 600 mm stanchions in bases, 2x aft pushpits integrating flag holder and stern nav. light and single bow pulpit with integrating red/green nav. light. Double 1 x 19 wire lifelines with turnbuckles. Forestay chainplate with attachment for headsails.

6.2 Deck Hardware

Teak toe rail forward of the mast, Two 500 cm genoa tracks with 2 genoa cars (adjustable under load) and 2500 mm mainsheet traveller track and car.

6.2.1 Pad Eyes

Pad eyes for holding and parking spare halyards. Spin guy blocks, spin sheets, and barber hauler and pole down haul blocks.

6.2.1 Deck gear

6x Spinlock jammers on halyards and control lines.

Trim lines, mainsheet and halyards led via 2 x 3 double deck organizers to halyard winches.

All blocks are Frederiksen ball bearing blocks.

6.2.3 Winches

Mainsheet: Harken 2x 46

Primaries: 2 x Harken B 56.2 STA or similar

Halyards: 2 x Harken B 48.2 STA or similar (1 Electric)

Handles:

2 x double handles with lock

2 x single handles with lock

6.2.5 Windows/hatches/lockers

2x Lewmar Atlantic port lights in cockpit

Marten flush hatches on cabin top (1 x 54, 2 x 30, 3 x 20)

Marten flush hatches in the teak decking for master cabin and ensuite, forepeak and aft lazarette.

One large plexiglass sliding companionway hatch with plexiglass washboards.

2 hinged aft lazarette flush hatches

2 plexiglass salon windows set flush into the hull topsides

6.4.1 Teak

8-mm Teak laid deck on cockpit seat, cockpit floor, side decks and foredeck.

6.5.1 Forepeak

Sail storage locker in the foredeck with flush composite hatch lid.

Self-draining anchor locker with hinged flush composite hatch lids.

6.6.4 Helm Station

2x Suunto f116 mm compass's on top of the steering pedestals.

7 ELECTRICAL SYSTEM

7.1 Electrical System

Main switch boards - one for navigation equipment and for the yacht's service facilities - and another for shore/generator powered system, both containing fuses, switches with indication diodes, digital readouts for amp, voltage and tank volumes.

2 main switches

1 x 70 ampH battery for engine

6 x 70 ampH batteries for service.

2 x 70ampH batteries for electronics

Engine based 80 ampH/12 V alternator - and a shore powered battery charger 220 V - 12V/25 amp.

Optional shore power socket is located aft. There are circuit breakers on shore supply, switchboard mounted breakers for hot water, accommodation power and battery charger and 220 V sockets in each cabin and in the galley.

7.1.7 Lighting

20 x halogen spot lighting integrated into the headliner throughout the yacht. Halogen spot reading lights in main cabin as well as by each berth. Halogen spotlight at flexible arm by the nav station.

Deck lighting

Deck floodlight and compass light.

Red and green nav lights.

Steaming nav light.

Stern nav light.

Windex light - or anchor light.

8 ENGINEERING & SYSTEMS

8.1 Engine

The sound insulated engine box is situated beneath the companionway stairs and between the aft cabins.

75 HP, 4 cyl, Yanmar 4JH 2-HTE diesel engine, with leg drive and Briski 18" 2 blade folding propeller and.

Engine instrument panel - including RPM-meter, acoustic alarm for oil pressure and cooling water temperature is fitted in the nav station.

Throttle control is at the helm station with 'Spinlock' fitting operated with a winch handle.

8.2.1 Steering

Twin wheel steering, Carbon 1050 mm diameter wheels wire steering and composite quadrants. A spare alloy emergency tiller is provided.

8.3.1 Diesel Tank

S/S diesel tank 200 litres with shut off valve, baffles, water separator and deck fill cap. Tank volume capacity is displayed at the nav station.

8.3.2 Fresh Water System

Hot and cold pressurized water. Water tanks with total capacity of 430 litres with deck fill caps and vents.

Tank volume capacity is displayed at the nav station. A 40 litre hot water tank (80 degrees C) heated by either the main engine or shore power.

8.7 Anchor Equipment

Maxwell VW 2200 rope/chain windlass with foot switch on foredeck

20 m 10mm galvanised anchor chain

65m 15mm Nylon anchor warp

20 kg Bruce anchor with a fold out anchor arm.

8.8.1 Pumps

Two manual bilge pumps, one in the cockpit leading from the central keel sump, the second mounted in the salon.

An electric' automatic bilge pump is fitted in the keel area.

2 separate electrical bilge pumps are installed for draining the shower sumps.

8.8.4 Fire Extinguishers

3 x powder fire extinguishers are fitted. 2x 1kg powder and one 2 kg CO2 extinguisher.

9 SAILING SYSTEMS

9.1 Lifting Keel

Lifting keel is raised and lowered with a hydraulic lifting ram and dedicated hydraulic powered pump.

9.2 Rudder

The rudderstock is laminated with Carbon fibre with a composite blade. Rudder bearings are JP3.

9.3 Spars

9.3.1 Mast

Carbon double swept back spreader, tapered mast.
Windex with light, steaming light and deck light
Track on mast for spin pole fittings
2 masthead halyards

9.3.2 Boom

Carbon boom with 2 internal reefing lines and outhaul, integrated attachments for mainsheet block and vang

9.3.3 Bow prod

9.4 Rig Systems

The backstay is adjusted with an hydraulic hand pump.
Mechanical adjustable vang via line led to cockpit.
All sail adjustment lines lead aft to the cockpit

9.5 Standing Rigging

Discontinuous rod rigging, rod forestay and rod perm backstay.
Turnbuckles for top shrouds and intermediates are all of easy adjustable racing quality.

9.6 Running Rigging

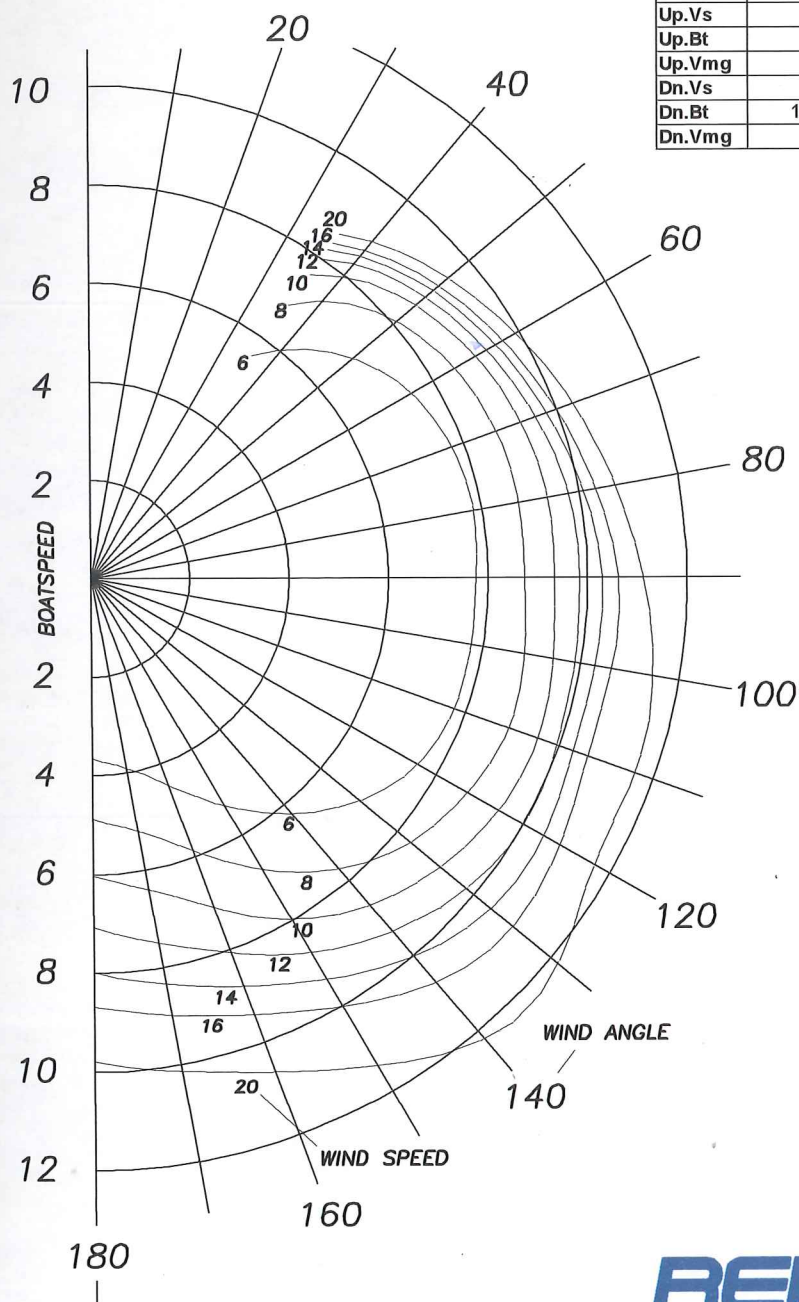
Mainsheet - Spectra
Mainsheet car control lines - Spectra
Genoa sheets - Spectra
Genoa cars - control lines - Spectra
Cunningham - Polyester
Baby stay control line - Spectra
Check stay lines - Spectra
Main sail halyard - Spectra
Spinnaker halyard - Spectra
Genoa halyard - Spectra
Topping lift - Spectra
4 x moorings 15 m - Polyester
4 fenders - with lanyards

9.7 Sails (Owner supplied)

Mainsail 82m²
108% jib 59m²
Self-tacking headsail
Masthead Gennaker 194m²
Reacher 91m².

DESIGN 145

	6	8	10	12	14	16	20
36	5.57	6.85	7.59	7.99	8.23	8.39	8.62
40	6.04	7.32	7.97	8.31	8.52	8.67	8.90
45	6.53	7.77	8.32	8.61	8.81	8.96	9.19
52	7.06	8.19	8.67	8.94	9.13	9.29	9.54
60	7.48	8.49	8.98	9.24	9.44	9.62	9.91
70	7.75	8.70	9.23	9.54	9.78	9.99	10.34
75	7.81	8.74	9.31	9.68	9.94	10.16	10.54
80	7.83	8.76	9.35	9.78	10.08	10.33	10.73
90	7.76	8.73	9.32	9.84	10.29	10.62	11.12
110	7.76	8.92	9.55	9.95	10.29	10.60	11.62
120	7.57	8.72	9.44	10.03	10.48	10.85	11.63
135	6.65	8.05	8.91	9.59	10.28	10.93	12.35
150	5.31	6.81	7.98	8.76	9.38	10.02	11.41
165	4.12	5.46	6.68	7.75	8.55	9.17	10.36
180	3.65	4.87	6.02	7.08	7.99	8.68	9.79
Up.Vs	6.25	7.31	7.70	7.91	8.05	8.17	8.36
Up.Bt	42.1	39.9	37.0	35.1	34.0	33.5	33.1
Up.Vmg	4.64	5.61	6.15	6.47	6.67	6.82	7.01
Dn.Vs	6.17	7.33	7.98	8.49	8.66	8.91	10.32
Dn.Bt	140.6	144.7	150.2	154.1	162.5	166.5	166.3
Dn.Vmg	4.77	5.98	6.92	7.64	8.26	8.87	10.03



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