



MENKEN MARITIEM
Varen op karakter



General information & standard equipment

Length over all:	14.95 meter
Waterline length:	13.30 meter
Beam:	4.80 meter
Draught:	1.40 meter
Displacement:	25 tons
Airdraught:	3.85 meter
Fuel capacity:	2600 liter
Water capacity:	800 liter

*The "Dutchess" is a professional design of
Martin de Jager Yachtdesign and proudly build by Menken Maritiem.*



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Construction

Hull:	Round bilged V-hull with skeg, Polyester, 100% hand layup. Isophtalic resin: DSM Palatan 4, Lloyd's approved
Colour:	32 colours gelcoat available <i>Colour hull:</i>
Deck:	<i>Colour deck:</i>
Stringers:	System of stringers, frames, web frames and bulkheads Frame consists of PU foam filled TOPHAT GRP
Certificate:	CE Certificate Cat. A, Ocean
Classification:	Lloyd's hull certificate. Hull & construction are Lloyds approved.



Heartbeat

Topspeed:	Depending on engines, 10 knots – 18 knots
Standard engines:	Two 3.6 lit. 6 cylinder VOLVO PENTA TAMD41H diesel engines 107 kW/146 HP at 2600 rpm
Couplings:	PRM with reduction ratio 2:1. Optional the engine are fitted with a PTO for hydraulic pumps.
Stern gear:	Flexible coupling Blokflex, Temet 25 50mm shaft, Hollex seal with backup, GRP stern tube, bronze P-bracket with rubber bearing. Two bronze 4 bladed propellers. Propellers of high skew type. P-brackets supporting the propeller shaft are bolted to a WBP bulkhead and glassed. The rudder trunks are bronze and supported by WBP supports and glassed.
Steering:	Two stainless steel 316 rudders. Rudderstocks provided with a square top to enable fitting of an emergency tiller. The rudders are fitted with a steel tiller manipulated by a hand hydraulic steering system. The system has two hand hydraulic pumps, one in the wheelhouse and one on the fly bridge. The yacht is equipped with two teak steering wheels with rim, mark STAZO diameter 90 cm. The yacht is fitted with manual throttle, make Morse. Electronic throttle is available as an option.
Instruments:	Standard is a 10" chart plotter with autopilot, depth-log instrument, make SIMRAD. VHF radio, All other systems and extensions can be installed optional to customers requirements.



Electrical installation:

The electrical installations are designed and fitted according to the Recreation Craft Directive (CE approved) as compulsory in the EG. One 220 AC shore connection panel fitted with ground fault interrupt circuit outlet. One connection for the battery charger is included. A 15 m (50 foot) 220 V shore connection cable, A 50 Amp battery charger mark VICTRON, type PALLAS

An electrical bow thruster is fitted as standard. Bow thruster of make Ameq type F10 with a thrust of 100 kgf and a tunnel diameter of 185 mm. The engines will have two 1000 CCA dedicated starting batteries. For general service eight 12 V 200 Ah batteries are provided. Starting batteries are fitted in the engine room, beside the engines. The service batteries are fitted in the lazarette. A 24 V distribution panel fitted in the wheelhouse. Panel is fitted with battery condition meter and is placed under the helmsman seat. In this panel the freshwater gauging instrument is fitted.

General alarm panel on the control station contains: Four bilge alarms, Four on/off/auto starting switches for the bilge pumps, Gas detector alarm, Fire alarm engine room, Two diesel filter alarms

Heating:

The heating is by means of a two pipe fan coil system. The water in the system is heated by a diesel burning water heater, make Webasto. Diesel is fed through a Racor filter from the main tanks.

Fuel system:

The system consists of two fuel tanks each servicing one engine. One valve for connecting both tanks in case of emergency is fitted. Fuel system is designed and fitted according to the Recreational Craft Directive. Two stainless steel fuel tanks of 1300 liter each are fitted. Chromed bronze filler caps are fitted on both side decks. In total four chromed bronze tank vents are fitted.

Water:

Two 400 liter stainless steel water tank are fitted. A hydrophore has a capacity of 14.4 lt./min. A 50 liter hot water boiler is installed. The boiler is heated by the engine cooling system.

Greywater:

Two 24V toilets, make Vacuflush are installed. Toilets are fitted with freshwater flush connection. A fifty (50) litre holding tank is installed. Tank has a deck connection for shore and a vent with filter. Three highly polished stainless steel sinks are fitted, one in every head and one in the galley. Shower pump set are installed in the head. Set to pump directly overboard via a vented loop.



Interior

- Interior is luxurious and finished to a high standard. Only well seasoned massive wood. All massive and veneer is free of defects and quarter cut / sawn. Teak woodwork inside is finished to the highest standards. Varnishing in a high quality 2-component polyurethane system. Finish in satin.
- All fasteners made out of stainless steel, but where possible glue is used. Water-resistant glue is used throughout the interior. Only polyurethane or equal flexible compound, make Sikaflex is used. Floorings are 16 mm teak in the accommodation. Ceilings in both accommodation and wheelhouse are 10 mm plywood with vinyl padding. No visible fasteners are used. Bulkheads are 18 mm teak veneered plywood Doors are in 18 mm teak veneered plywood in massive teak frames.

Wheelhouse

- An oval seat is fitted on port side. A table about 1400x700 mm placed on an adjustable leg.
- A Recaro helmsman chair is fitted.
- A two place seat is fitted on port side.
- The forward part under the windows is constructed as chart table and steering console.
- On starboard side the stairs to the hull accommodation are fitted.
- In the wheelhouse the inside of the superstructure sides are lined in teak, including the window mullions.





Galley

- Will consist of a L-shaped cupboard.
- Cupboards will include part above worktop and are fitted to ship side or liner.
- Cupboards in teak with granite top.
- Doors of panel type, flat panels with profiled trims are used.
- 24 V refrigerator of 65 lt
- 220 V microwave
- A three-burner ENO gas stove is fitted





Saloon

The saloon consist mainly of two parts:

- A cupboard on port side, with doors and drawers. In this cupboard the television is integrated.
- A L-shaped settee on starboards side.
- A bar fitted to the aft part of the galley on starboard
- Stairs leading to the fly bridge deck on port





Forward cabin

- Central berth. 2000x1500mm, with large drawers and stowage underneath
- Two seats on either side of the berth
- Two high cupboards at the aft part of the cabin to the outward side of the yacht.





Aft (owner's) cabin

- a berth 2000x1500mm at port side, with cupboards above
- a high cupboard between berth and forward bulkhead
- a sideboard at the starboard side of the berth
- a seat next to the sideboard



Guest or children's cabin starboard

- two beds above each other abt. 2000x700mm





Sanitary facilities

- Bathroom with shower, sink and electric toilet for forward cabin and geust cabin
- Bathroom with shower annex bathtub, sink and electric toilet for owners cabin
- A daytoilet can be fitted to customers requirements on the position of the saloon bar



Exterior

- Teak woodwork outside is finished to the highest standards. Finish is in a high quality 2-component polyurethane system, AKZO Sikkens. Finish outside is in high gloss.
- Only the highest quality teak, free from defects and quarterly sawn is used. The aft deck and lower gangways are laid with massive teak. Teak thickness 12mm.
- Caprail is finished in high gloss.



- The aft side of the wheel house is closed by 2 sets of massive teak doors with aluminum windows.
- On top of the fly bridge a stainless steel guardrail of 30mm pipe, with 25mm scepters, is placed.
- A GRP mast on the wheelhouse coach roof is fitted as standard.
- Mast will carry running light and fittings for owners and courtesy flag.



Deck equipments

- Standard 4 mooring bollards. Bollards, size abt. 250 mm, in stainless steel.
- On the fore and aft deck custom made stainless steel fairleads are placed in the bulwark.

Anchor equipment is installed consisting of the following:

- An electrical anchor winch make LEWMAR, type Concept 1 with gypsy or equal
- Up/down switch in control station
- Remote control for on deck use
- An 45 lbs Pool anchor
- 30 m 10 mm galvanized short link anchor chain
- Anchor locker in stainless steel 316





Interior design drawings



