

# ORION

*WOODEN SAILBOATS*

# ORION BOAT BUILDING

Pirat

*Pirat was designed by Karl Martens in 1938 and it has been used in racing sailing classes for a long time. Races have been still organised by Pirat Clubs all over the world. It is a nice sailing and racing boat for two or three peoples. Pirat must be built due to original design and racing rules. The hull can be wood or fiberglass. Due to rules the hull must not be less than 170kg and total weight can not be less than 218kg*

## CONSTRUCTION

*Main structures; keel, stem and stern is solid or epoxy laminated iroko or mahogany. Other structures, frames, beams, planking, deck are built by marine plywood. It has two water-tight bulkheads at fore and aft. For lamination and combining the structure epoxy glue is used. Its inside and outside is painted by polyurethane paint over epoxy primer. Mast and bumb is laminated Cistus wood and varnished*

*Construction : Wood Epoxy Hull & Wooden Superstructure*

## MAIN DIMENSIONS

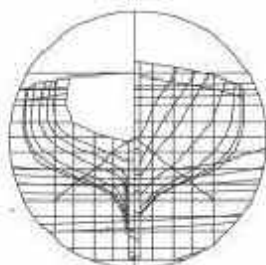
Loa (overall): 5.00 mt  
Lwl (waterline): 4.95 mt  
B (breadth): 1.61 mt  
D (draft): 0.20 mt  
Sail area: 10.00 m<sup>2</sup>

## STANDART ACCESSORY

Main sail  
Jibsail  
Stainless Steel Rigging  
Blocks and ropes for sails  
Stainless Steel center boat keel  
Wooden rudder and tiller

## OPTIONAL ACCESSORY

Aluminum Mast  
Spinnaker  
Main Sail track  
Jibsail Tracks  
Boat Trailer  
By wishes deck can be covered  
by iroko or teak



Design / Building : ORION Ltd. Co.

06.07.2005

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**ORION Ltd. Co.**

Skoepa Marina, 2. Floor 48310 - Göcek / Muğla - Türkiye Phn. +90 252 645 1750 Fax. +90 252 645 1241  
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# ORION BOAT BUILDING

ORION 20

Orion20 - 22 is designed to provide comfort and safety on the river and sheltered waters. Vinyl cushion at sitting group has color alternatives and allows quiet comfort for cruising. Fore sitting group is set as removable part to convert to a sun deck by extra plywood and cushion.

The Hull and the main construction is made of GRP (glass reinforced plastic). The deck and floor is laid down with irocco stripes. Rubbing strake, gun rail, engine and steering wheel console are built of solid mahogany. PU varnish is applicated to all mahogany parts. Lockers are painted marine gelcoat paint. Tent is optional.

Lenght Overall : 6.00 m.  
Length waterline : 5.80 m.  
Beam : 2.20 m.  
Draft : 0.60 m.  
Design / Built : ORION Ltd. Co.



Displacement : 1.000 kg.  
Engine : 18 HP  
Fuel tank : 50 lt.  
Capacity : 5-6 persons  
Construction : GRP Hull & Wooden Superstructure

## STANDART EQUIPMENT

18 hp Yanmar engine  
Flexible coupling and engine mounting  
Sea water filter  
Hydroulic steering and inox rudder  
Shaft and propeller system

12 V battery  
Bilge pump with floating switch  
Inox fairlead and cleat  
10 kg anchor  
Vinyl sitting group cushion  
Navigation lights

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# ORION BOAT BUILDING

ORION 22



Length Overall 6.60 m.

Length waterline 6.20 m.

Beam 2.20 m.

Draft 0.75 m.

Design / Built ORION Ltd. Co.



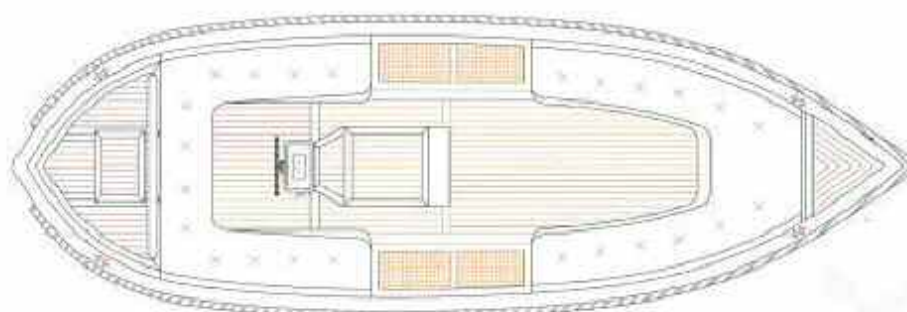
Displacement 1.100 kg.

Engine 18 HP

Water tank 50 lt.

Capacity 5-6 persons

Construction GRP Hull & Wooden Superstructure



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# ORION BOAT BUILDING

ORION 22 C

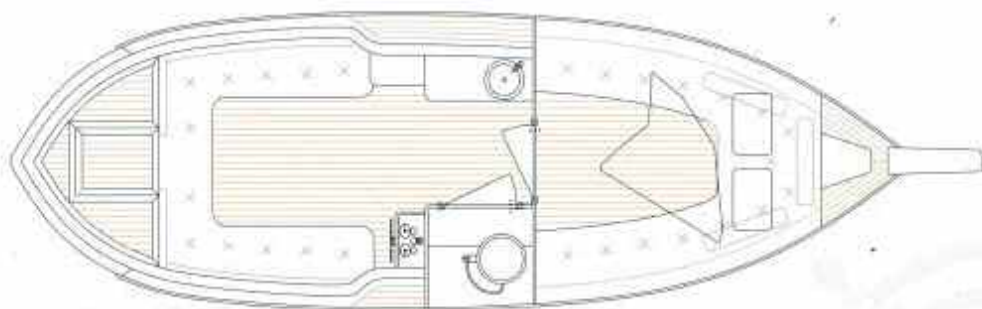


Lenght Overall 6.60 m.  
Length waterline 6.20 m.  
Beam 2.20 m.  
Draft 0.75 m.  
Design / Built ORION Ltd. Co.



Construction

Displacement 1.200 kg.  
Engine 15 HP YAMAHA  
Water tank 50 lt.  
Capacity 5-6 persons  
GRP Hull & Wooden Superstructure



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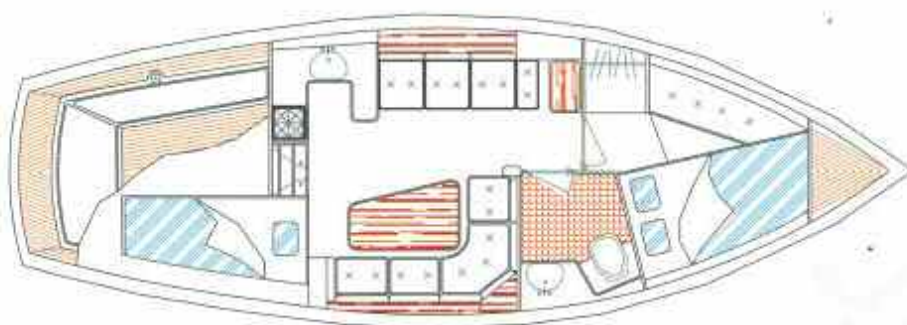


# ORION BOAT BUILDING

ORION 32



|                  |                                                                     |              |                   |            |         |
|------------------|---------------------------------------------------------------------|--------------|-------------------|------------|---------|
| Lenght Overall   | 9,60 m.                                                             | Displacement | 5900 kg.          | Engine     | 27 HP   |
| Lenght waterline | 8,05 m.                                                             | Ballast      | 1800 kg.          | Fuel Tank  | 120 lt. |
| Beam             | 3,00 m.                                                             | Sail Area    | 55 m <sup>2</sup> | Water tank | 200 lt. |
| Draft            | 1,55 m.                                                             |              |                   | Waste tenk | 75 lt.  |
| Design / Built   | ORION Ltd. Co. Construction Wood Epoxy Hull & Wooden Superstructure |              |                   |            |         |



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# ORION BOAT BUILDING

ORION 36

Orion32 and Orion36 wooden sailing boats' designs aim to provide comfortable accommodation for 4-5 or 4-7 persons. They have a cabin with a double bed at the front and single bed at the aft. The sitting groups at the saloon can be used as one double and one single bed.

The hull of Orion 32-36 is built with mahogany wood by using epoxy and laminated. The outside of hull will be coated by fiberglass, and epoxy filler and will be polyurethane painted. The deck and deckhouse are made of laminated marine plywood and variety of solid wood. The deck is laid with teak wood. The mast, boom, and bowsprit are laminated using of fir wood.

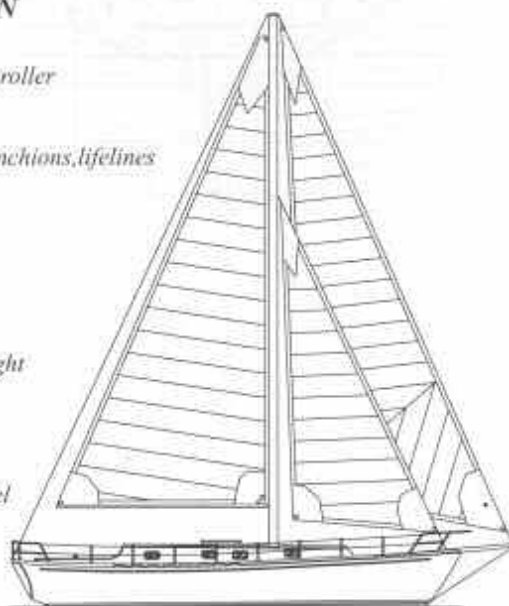
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|------------------|----------------|--------------|-------------------------------------------------------|------------|---------|
| Lenght Overall   | 11.60 m.       | Displacement | 6700 kg.                                              | Engine     | 40 HP   |
| Length waterline | 9.20 m.        | Ballast      | 2600 kg.                                              | Fuel Tank  | 200 lt. |
| Beam             | 3.40 m.        | Sail Area    | 65 m <sup>2</sup>                                     | Water tank | 300 lt. |
| Draft            | 1.80 m.        |              |                                                       | Waste tenk | 120 lt. |
| Design / Built   | ORION Ltd. Co. |              | Construction Wood Epoxy Hull & Wooden Superstructure. |            |         |

## STANDART SPECIFICATION DECK EQUIPMENT

Stainless steel steamhead fitting with roller  
Galvanized anchor and chain  
Stainless steel rigging equipment  
Stainless steel pulpit and pushpit, stanchions, lifelines  
4 sail winches  
Stainless steel fuel-water inlet  
Compass

## INTERIOR LAYOUT

Headroom 1.85 m.  
8 fixed Bofor portlights, Saloon skylight  
Stowage in the settee seat backs  
Deckhead lights  
Fully moulded shower tray with  
marine toilet, sump pump  
Coryan work bench and stainless steel  
sink and tabs.  
Cooker, 12 v electric refrigerator



## MECHANICAL AND ELECTRICAL EQUIPMENT

Diesel engine and propulsion system, Electric bilge pump, Macerator pump,  
30 lt water heater, Water pump, 12/220 V circuit, 3 batteries and battery charger,  
12 v blower for engine room, Navigation lights, Deep sounder, Wind speed,  
Barometer, Clock, Horn



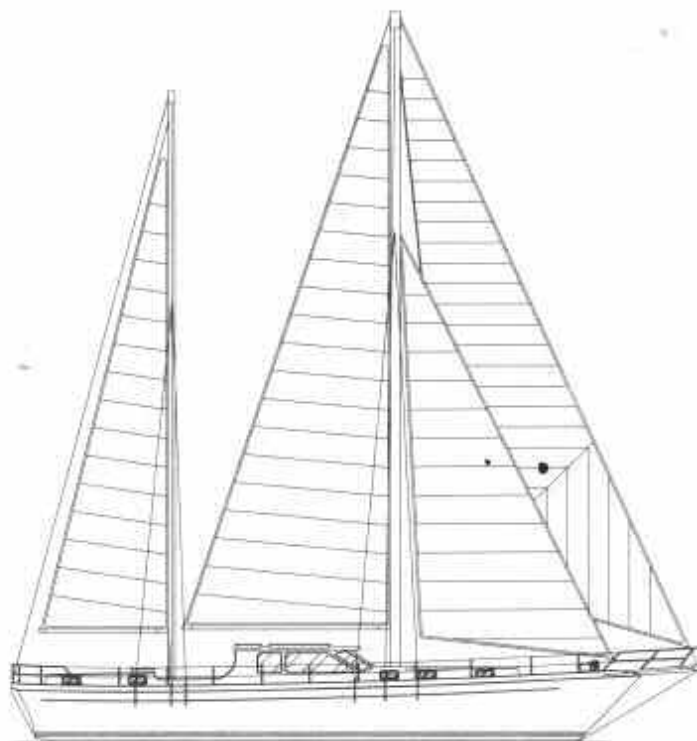
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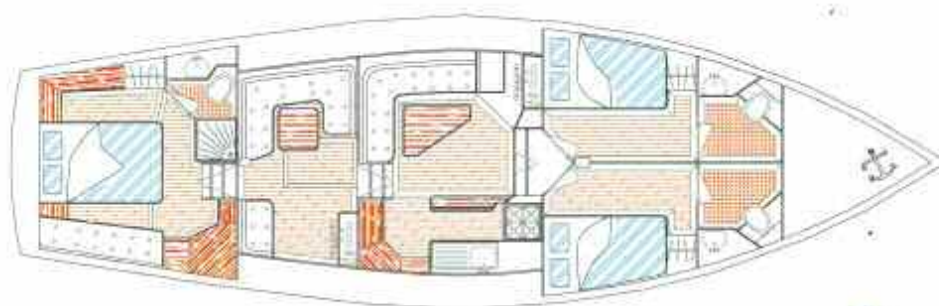


# ORION BOAT BUILDING

ORION 50-A



|                  |                |              |                                                        |            |          |
|------------------|----------------|--------------|--------------------------------------------------------|------------|----------|
| Lenght Overall   | 15.35 m.       | Displacement | 20 t.                                                  | Engine     | 125 HP   |
| Lenght waterline | 12.70 m.       | Ballast      | 5 t.                                                   | Fuel Tank  | 1200 lt. |
| Beam             | 4.60 m.        | Sail Area    | 125 m <sup>2</sup>                                     | Water tank | 800 lt.  |
| Draft            | 1.95 m.        |              |                                                        | Waste tenk | 500 lt.  |
| Design / Built   | ORION Ltd. Co. |              | Construction : Wood Epoxy Hull & Wooden Superstructure |            |          |



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With the two version, Orion50 gives you to make choice for 3 cabin sailing boat. Even they have the same hull design, the inside and deck designs differ.

It has 3 guest cabins having their own toilet and shower cabin. The saloon shares one side with the well equipped galley.

The hull of Orion 50 is built with mahogany wood by using epoxy and laminated. The deck and deckhouse is made of laminated marin plywood and variety of solid wood. The deck is layed with teak wood. The masts, booms and bowsprit are laminated using of fir wood.

The engine room is under the saloon and well isolated for loud noises and heat.

### STANDART SPECIFICATION DECK EQUIPMENT

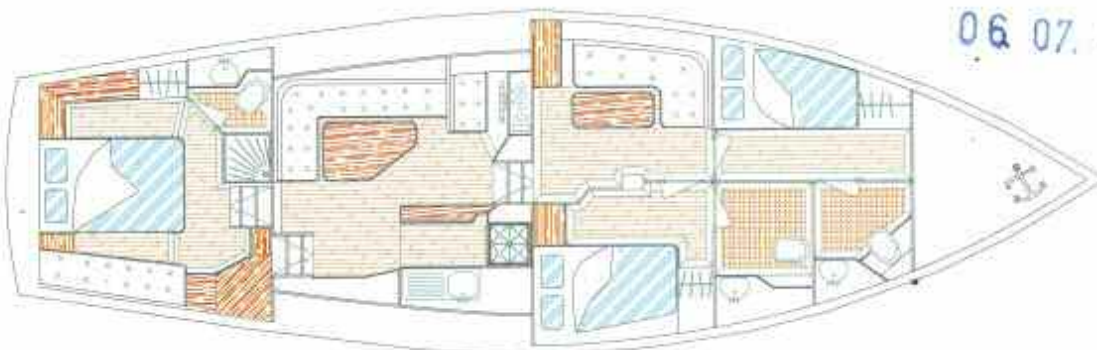
Stainless steel steamhead fitting with roller  
Galvanized anchor and chain  
Hydraulic windlass, and steering system  
Stainless steel rigging equipment  
Stainless steel pulpit and pushpit, stanchions, lifelines  
4 sailing winches  
Stainless steel fuel-water inlet  
Compass

### MECHANICAL AND ELECTRICAL EQUIPMENT

Diesel engine and propulsion system  
Fuel system with decanter filter and switch  
Engine compartment soundproofed  
Stainless steel rudder plate  
Electric bilge pump, macerator pump  
60 lt water heater on engine + shore power plug  
Pressurised water system with expansion tank  
12 volt and 220 volt circuit  
6 batteries  
Electrical switchboard  
60 A 220-12 volt battery charger  
Engine room ventilation with 12 v blower  
Navigation lights  
Deep sounder, speed, wind speed  
Barometer, Clock, Horn

### INTERIOR LAYOUT

10 portlights, Saloon skylight  
Stowage in the settee seat backs  
Deckhead lights  
Fully moulded shower tray with marine toilet, sump pump  
Coryan work bench, Stainless steel sink and tabs  
Cooker, 12 v electric refrigerator



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# ORION BOAT BUILDING

ORION 60

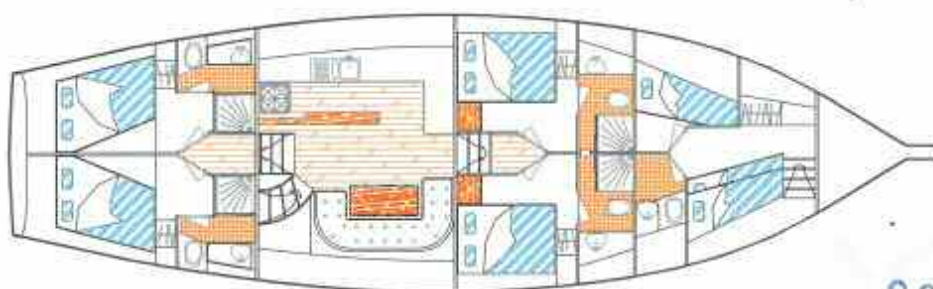


Length Overall 18.60 m.  
Length waterline 15.05 m.  
Beam 5.60 m.  
Draft 2.70 m.  
Design / Built ORION Ltd. Co.

Displacement 42 t.  
Ballast 9 t.  
Sail Area 220 m<sup>2</sup>

Engine 240 HP  
Fuel Tank 2000 lt.  
Water tank 2000 lt.  
Waste tank 1500 lt.

Construction : Wood Epoxy Hull & Wooden Superstructure



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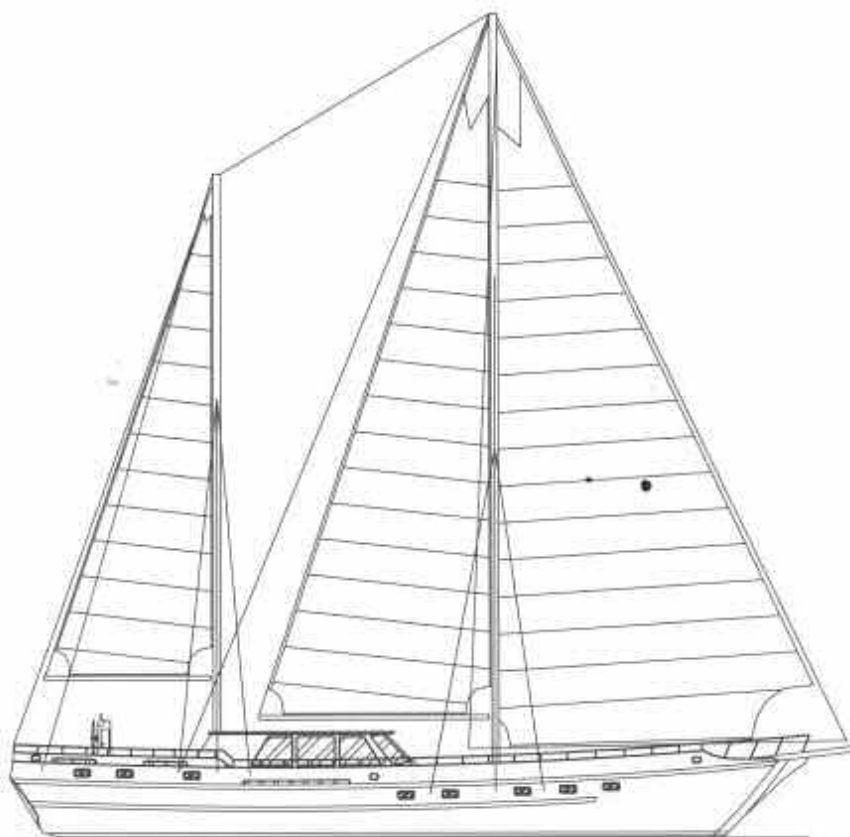
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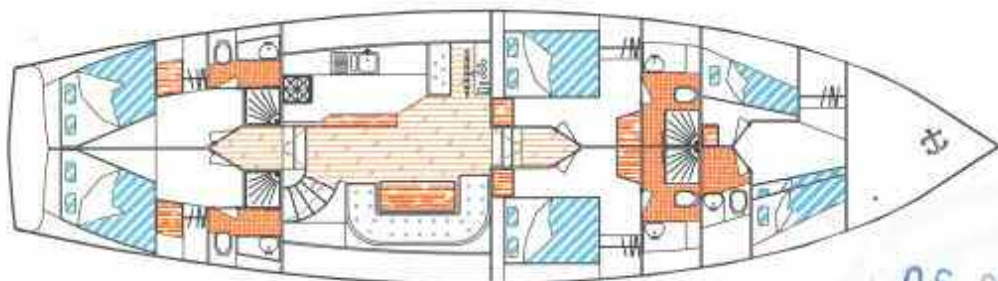


# ORION BOAT BUILDING

## ORION 70-A



|                  |                |              |                                                        |            |          |
|------------------|----------------|--------------|--------------------------------------------------------|------------|----------|
| Lenght Overall   | 21.05 m.       | Displacement | 50 t.                                                  | Engine     | 275 HP   |
| Length waterline | 17.90 m.       | Ballast      | 13 t.                                                  | Fuel Tank  | 2500 lt. |
| Beam             | 5.76 m.        | Sail Area    | 250 m <sup>2</sup>                                     | Water tank | 3000 lt. |
| Draft            | 2.80 m.        |              |                                                        | Waste tenk | 2000 lt. |
| Design / Built   | ORION Ltd. Co. |              | Construction : Wood Epöxy Hull & Wooden Superstructure |            |          |



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Orion70 is a wooden sailing boat developed from Orion 60 as two different versions. Even she has the same number of 4 guest cabins, she is designed to give more inside volume that makes you more relaxed. And also you will catch more comfort on the deck. Nevertheless Orion70's inner plans might easily be transformed into desired accommodation.

The hull of Orion 70 is built with mahogany wood by using epoxy and laminated. The deck and deckhouse is made of laminated marin plywood and variety of solid wood. The deck is layed with teak wood. The mast, booms and bowsprit are laminated using of fir wood.

The engine room is under the saloon and well isolated for loud noises and heat.

### STANDART SPECIFICATION DECK EQUIPMENT

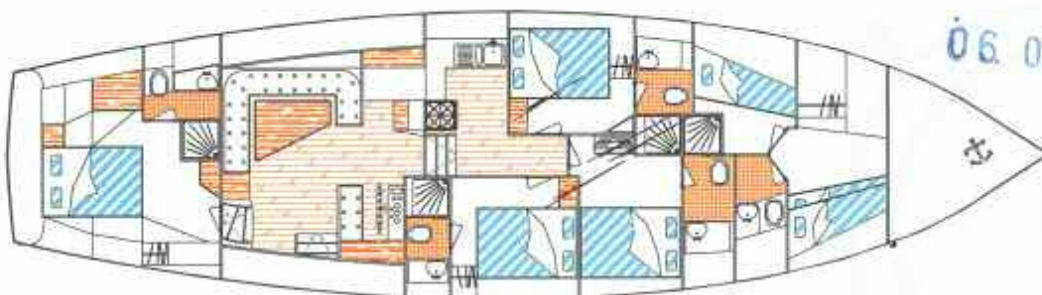
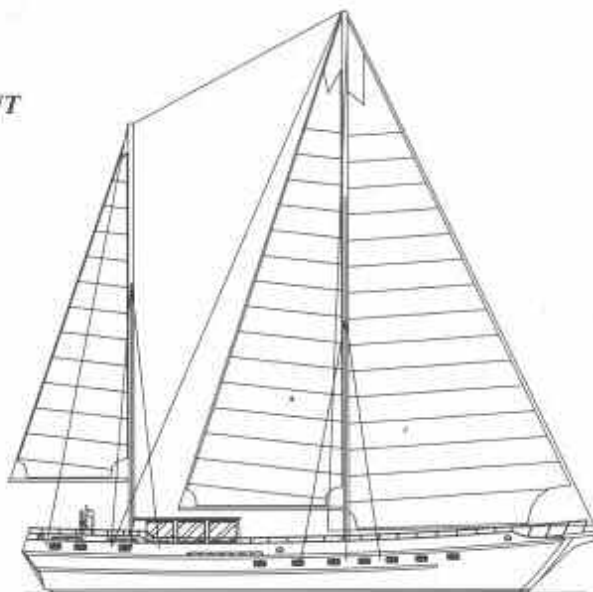
Stainless steel steamhead fitting with roller  
Galvanized anchor and chain  
Hydraulic windlass  
Stainless steel rigging equipment  
Stainless steel pulpit and pushpit, stanchions, lifelines  
6 sail winches  
Stainless steel fuel-water inlet  
Compass

### MECHANICAL AND ELECTRICAL EQUIPMENT

Diesel engine and propulsion system  
Fuel system with decanter filter and switch  
Engine compartment soundproofed  
Stainless steel rudder plate  
Electric bilge pump, macerator pump  
90 lt water heater on engine + shore power plug  
Pressurised water system with expansion tank  
12/24 volt and 220 volt circuit  
8 batteries  
Electrical switchboard  
60 A 220-12 volt battery charger  
Engine room ventilation with 12 v blower  
Navigation lights  
Deep sounder, speed, wind speed  
Barometer, Clock, Horn

### INTERIOR LAYOUT

16 portlights, Saloon skylight  
Stowage in the settee seat backs  
Deckhead lights  
Fully moulded shower tray with marine toilet  
Coryan work bench, Stainless steel sink and tabs.



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