

Nautica 450 Race

Specification
January 2009

Dimensions

Hull length	4,50 m
B. Max	1,92 m
Draft	1,20 m
Hull weight	95 kg
Sailing weight	120 kg
<i>Sail Areas</i>	
Mainsail	9,8 m ²
Jib	4,7 m ²
Asymmetric	21,8 m ²

Hull

The hull is built in a sandwich construction made up of vinylester resin and biaxial E-glass fabric. Core material is Dyvinicel®.

Standard colors are: bottom part white and deck part in light gray or light blue.

The deck and cockpit angles are moulded in a way to provide hiking crew maximum comfort. The cockpit floor is coated with anti slip layer.

Daggerboard and Daggerboard Case

Daggerboard is built in a sandwich construction made up of epoxy resin and biaxial fabric. Core material is epoxy foam.

Daggerboard Case is equipped with two polyamid bearings to hold and help operate the daggerboard.

Rudder and Rudder Stock

The Rudder is built in a sandwich construction made up of epoxy resin and biaxial fabric. Core material is epoxy foam.

Rudder Stock make is HOLT. It is made of aluminum profiles and plastic cheeks. It is equipped with holding rope to keep the rudder in position while sailing. The Rudder Stock is fitted to hull by HOLT gudgeons.

Silver Tiller extension is made of aluminum and is 1067mm long.

Fittings

The Boat is equipped with HOLT Performance range of fittings. Shrouds and forestay are attached to Hull through U-Bolt fittings. U-Bolts are attached in especially reinforced areas. For details on forestay and shroud arrangements see also *Mast & Rigging* section.

The boat incorporates aft sheeting system for main sheet. Sheets are attached to deck through two dyneema ropes attached to sheet block. Next the

sheet is led forward two swivel base with ratchet block in center of cockpit. System consists of 3 ball bearing blocks.

Next to main sheet swivel base are placed two swivel cleats to operate Vang (Gnav) and cap shroud tension system. For further details on Gnav and Cap Shrouds see *Mast & Rigging* section.

Next to shroud U-Bolts are attached Asymmetric sheets Autoratchet blocks.

Two jib sheet lead tracks of 42cm length are equipped in composite cam cleat. Jib tracks are placed at especially moulded bases.

As an option jib sheets can be rigged with 2:1 purchase.

The boat is equipped with two 150mm hatches in center part of cockpit, one 100mm hatch in aft part and two draining sockets on the transom.

Mast & Rigging

The boat is equipped with mast made of ALTO section of Seldén, which is fitted with two pairs of adjustable spreaders and composite heel. Mast is tapered in order to save weight and for better gust response.

Boom is equipped with an outhaul with inside fitted purchase system and a cleat.

On the boom there is attached sliding car of opposite Vang system – Gnav. It's control line is led back to one of swiveling cleats in order to helmsmen have constant control on main sail twist.

Shrouds and forestay are made of 3mm stainless steel wire. Main shrouds are fitted to hull through vernier adjusters. Forestay is fitted through high tension blocks system that control rig tension.

Cap shrouds are fitted with two triple blocks and its control line that is led back to one of swiveling cleats. This solution enables helmsmen to adjust cap shrouds tension during sailing. This helps to control mast and main sail shape and on the other hand protects mast to be broken by mast head asymmetric.

Sheets & ropes

The boat is equipped with

Jib halyard	- 4mm	dyneema
Main halyard	- 4mm	dyneema
Asy halyard	- 4mm	dyneema
Jib sheet	- 8mm	polyester

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Main sheet - 10mm polyester
Asy sheet - 7mm polyester
Forestay tens. - 4mm dyneema
Others - 4mm polyester

Sails

The boat is equipped with jib with two battens and main with four full length battens. Both sails are made of 4.0 Oz dacron.

Asymmetric is of radial cut and made in Superkote 75 cloth. Asymmetric in **Race** version is mast head. Standard colors are dark blue and red.

As an option main sail can be made of Kevlar laminate or Dacron RS4 (radial cut). Jib can be made in RS4 dacron in radial or cross cut.

Sails include own sail bags.

Asymmetric hoist & drop system

The boat is equipped with gennaker bag made of low water absorption fabric, which stores asymmetric when not hoist. Gennaker bag enables quick asymmetric drop and it being ready for next hoist.

Asymmetric halyard is attached to sail head, whereas the other end is attached to sail Middle point thus being retracting line.

Asymmetric halyard is led through block system which automatically lunches spinnaker pole.