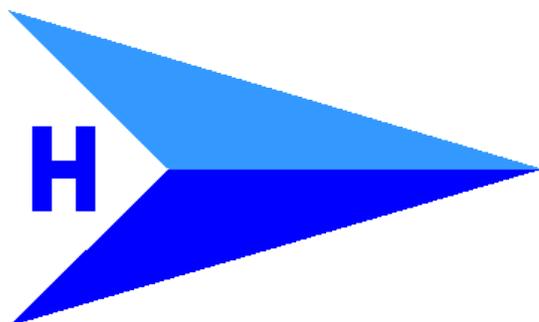


# Hastings Yacht Club Hansa 303 Sailability Sailboats Rigging and Use Guidelines



## Introduction

This manual has been compiled to help you to operate the HYC Sailability sailboats.. It contains details of the craft, the equipment fitted, its systems, and information on its operation and maintenance. Please read it carefully, and familiarise yourself with the craft before using it.

## Description of Craft: Hansa 303 Wide Seat

### Specification

Length	3.03m
Beam	1.35m
Draft	1.0m
Hull Weight	55kg (centreboard is +30kg)
Load	Maximum number of persons: 2 Maximum load: Sailors: 160kg Cargo: 20kg
Sail Plan	Schooner rig (free standing mainmast and foremast)
Sail Area	Mainsail 4.4m <sup>2</sup> (un-battened and reef-able to 0.5m <sup>2</sup> ) Jib 1.4m <sup>2</sup> (un-battened and fully reef-able)
Mast	Mainmast - Un-stayed 4.77m Foremast – Un-stayed 2.85m incorporating reefing drum
Hull	Positive buoyancy Heavily rockered for easy manoeuvrability Strong construction with solid bonded hull/deck joins Seating design keeps helm weight low, plus weighted centreboard ensures the boat is very stable and difficult to capsize
Seating	Mainsail reefing drum incorporated in console Wide hammock seat (for one or two adults)
Controls	Steered by manual joystick Mainsail is reefed and un-reefed by a single hauling line Jib is reefed and un-reefed by a single hauling line Mainsail and jib controlled by manual sheets

## Safety Precautions

If sailed with care, this boat is unlikely to capsize in normal use, provided that the sail area is adjusted to suit the prevailing conditions and the main sheet is not belayed. Whilst Hansa sailing craft have inherent design features ensuring maximum stability thereby reducing the chance of capsize, it should be remembered that these are small keelboats and under certain weather, water and sailing conditions sensible precautions should be taken:

- Always reef the sails according to the weather conditions.
- Always have a manned safety boat in the sailing area.
- Always cancel sailing activities if inclement weather conditions dictate.

**Always lock centreboard in position with long centreboard locking pin provided**

## Personal Floatation Devices (PFD's)

*All sailors and volunteers should wear a PFD at all times whilst on, or near water.*

### PFD's and Children

A properly designed PFD of the correct size will keep a child's mouth and nose clear of the water. A child should be taught how to put on a device and should be allowed to try it out in the water. It is important that the child feels comfortable and knows what the PFD is for and how it functions.

### Man Overboard

In the event of man overboard, use the centreboard handle as a handhold. Board over the port or starboard sides.

### Towing

The strong point for towing is the main mast. Pass the tow line through the guide ring at the bow and attach to the mast with a bowline.

*The safety of the sailors should come first under all circumstance*

## General Information

Steering is by a manual joystick located between the helm's legs, moving it to the left to go left and to the right to go right.

The sail area can be reduced or increased whilst under way using a reef furling system operated by hauling on a single continuous line. (For further information on reefing see: "How to Rig a 303 later in this guide).

## Safety Recommendations

Hansa Sailing craft are designed with a hull form and other features which combine to give considerable stability. There is a simple set of rules which should be followed to maintain the boats' excellent safety record and prevent any accidents. The stability of Hansa Sailing craft rely upon the following:

### Centreboards

It is most important that the centreboard be locked in the fully down position when sailing. The hole located one-third down the centreboard is to enable the short pin to be inserted laterally and facilitate movement of the boat with the centreboard inserted.

**Under no circumstances should the boat be sailed with the centreboard fixed in the raised position. There is a long pin provided to lock the centreboard fully lowered so that even in a "knock down" it remains in place.**

**Seating**

Because the placement of sailors' weight affects stability it is important that people remain seated low in the boat. If a sailor needs support from strapping, use only quick release Velcro™ straps to secure a sailor in place.

**Reefing**

Being a displacement type hull, the use of full sail area in strong winds does not mean more speed, but does make the boat more difficult to manage. In fresher breezes it is recommended to reef to suit the stronger gusts.

**Towing**

If a 303 needs to be towed on the water by a safety boat, it is safer and easier to tie the boat close alongside and remove the rudder blade so that it cannot be steered in the wrong direction.

**Transferring**

A stable floating pontoon system enables safe, centreboard-down transfer of sailors to and from the 303. This avoids off the beach centreboard handling and transferring problems.

## How to Rig a 303 Wide



# How to Rig a 303 Wide

## SETTING UP

Place the hull on a soft surface well clear of any overhead wires and facing toward the wind

## STEPPING THE MAIN MAST

1. Ensure the mainsail (inner) reefing line knot is positioned as far forward as it will go on the port (left) side
2. Loosen the knob under the console on the reefing drum
3. Insert the tip of the mast with the wedge fitting into the mainsail luff pocket and slide the sail on to the mast until it reaches the top
4. Slide the bobbin on to the bottom of the mast with the larger diameter flange uppermost
5. Lash the bobbin to the tack eye of the mainsail
6. Carefully lower the mast through the console collar, making sure the foot fitting is firmly located in the mast step on the cockpit floor
7. Tighten the knob to lock the reefing drum onto the mast

## FITTING THE BOOM

1. The boom should be kept tidy with no loose ends trailing
2. Untie and sort out the two ropes (mainsheet and outhaul)
3. Push the rowlock at the front end of the boom onto the bobbin
4. Take the outhaul ring which runs along the boom and shackle it onto the clew (corner) of the sail
5. Pull the sail out to the boom end by pulling the outhaul line and cleat it on the starboard (right) side of the boom
6. Take the mainsheet block and shackle it onto the traveller line which runs across at the stern of the boat (ensuring the mainsheet is not twisted)
7. Take the other end of the mainsheet after it passes through the inboard boom block, pass it through the block on the forward end of the console so that it runs aft
8. Tie a Figure 8 to act as a stopper knot at the end of the mainsheet

## STEPPING THE FOREMAST

1. Ensure the jib (outer) reefing line knot is positioned as far forward as it will go on the port (left) side
2. Unhook the headsail reefing line shock cord from the saddle underneath the seat
3. Set up the reefing line on the bow in a loose loop so it can complete a full turn around the foremast reefing drum
4. Insert the tip of the foremast into the jib luff pocket and slide the sail on to the mast until it reaches the top, ensuring that the tack eye is on the same side of the mast as the saddle on the reefing drum
5. Lash the bobbin tack eye to the saddle on the reefing drum
6. Step the mast with the sail leading aft and fit the reefing line around the drum
7. Re-attach the reefing line shock cord to the saddle underneath the seat
8. Secure the two sheets to the clew of the jib then through the fairleads and cleats on the port and starboard sides, making sure the sheets lead forward of the mainmast
9. Tie a Figure 8 as a stopper knot in the end of each jibsheet
10. Position the fairleads towards the aft end of the track for a full sail

### **REEFING THE MAINSAIL (shortening sail)**

1. You can put one complete turn of sail around the mast without adjusting the outhaul
2. With the outhaul un-cleated on the boom and the outhaul ring free to travel, pull on the port reefing line to reduce sail area
3. Replace the reefing line in the cleat on the port side of the centreboard case
4. Haul on the outhaul and re-cleat on the boom
5. Release the reefing line cleat, then pull the starboard line to increase sail area
6. Replace the reefing line in the cleat on the port side of the centreboard case
7. Haul on the outhaul and re-cleat on the boom
8. In light to moderate breeze, it is best not to flatten the sail along the boom but allow enough slack to form a gentle curve about 10cm from the boom

***Note: Never pull and push both sides of the reefing lines at once as this can disconnect the reefing line from the drum***

### **REEFING THE JIB**

1. Un-cleat the jib sheets before reefing
2. Haul on the port reefing line to reef
3. Haul on the starboard reefing line to un-reef
4. Always secure the reefing line in the cleat on the port side of the console after reefing or un-reefing
5. Move the sheet fairleads forward on the tracks when sailing with a reefed jib

***Note: Never pull and push both sides of the reefing lines at once***

### **STEERING**

1. Ensure the steering lines pass under the groove in the base of the joystick holder
2. Fit the rudder box, making sure the rope traveller is above the tiller
3. Remove the spring clip and pass the clevis pin up through the hole at the inboard end of the tiller. Re-insert the clip
4. Fit the alloy joystick

### **LAUNCHING**

1. Pass the tow-line (painter) through the guide ring at the bow and fasten it around the mast with a bowline (a knot which is always easy to untie)
2. Use the short alloy tube to pin the centreboard up when moving the boat around ashore
3. Pin the centreboard in the half-way position if you need to move the boat around in shallow water
4. After removing the short pin, **gently** lower the centreboard into its fully down position
5. Use the long pin inserted through the centreboard handle and into the console moulding to lock the centreboard down

***Note: Do not sail unless the centreboard is locked fully down as this risks capsizing and dislocation of the sailor/s and centerboard.***

***For further information on Hansa Yachts, Contact***

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