

Mclaughlin Optisailors Pro Racer Hull Specifications

"EXCLUSIVE CUSTOM INNOVATIONS TO KEEP YOU OUT FRONT"

The Optisailors Pro Racer is engineered to be the absolute stiffest, highest quality, **MOST TECHNOLOGICALLY ADVANCED** Optimist available in the world. The details in this boat will be copied for years to come. While this description may become obsolete as new advances are made you can be sure that the boat you order will have the latest developments.

CUSTOM SPECIFICATIONS - Optisailors hulls are laid up on Thursday morning to allow an, "over the weekend", extra two days cure in the mold. This allows the resin additional time to reach its full hardness, hold the mold shape and stiffen the boat. Extra care is taken to assure the maximum weight can be placed in the midship frame to lighten the ends. The **Optisailors hull is minimum weight** and perfectly faired. If you have a rigging preference we will customize it your way, No problem! **Clear or metallic transom, custom colors and metallic deck options** are available for customers wanting to further distinguish their boat.



HULL WEIGHT MOVED AFT – Every effort has been made to move the center of gravity aft. How serious are we? The stainless steel air bag and hiking strap hold down plates have been replaced with special lightweight plastic fittings in the bow. **The center of gravity is moved aft** through a special vacuum bagging process. Great care is taken with the Optisailors hull to remove excess resin from the bow and forward sections.

SHARPENED AFT CHINE - The stern chine of the Optisailors hull is sharpened to reduce hull drag.

TEFLON POLISH USED ON BOTTOM – Once the hull has been faired the mold release waxes are removed and the bottom is given a coat of Teflon polish for protection, ease of cleaning and speed.

LOW TURBULENCE CENTERBOARD SLOT



The slot has been filled in on the bottom of the boat to reduce water turbulence, reduce wear and damage at the aft end, align the board more uniformly and consistently position the board.



PERFECT APPENDAGE ALIGNMENT

The alignment of Mast, Rudder and Centerboard are checked with a laser-squaring beam. Thus assuring minimum drag and **maximum speed** on both tacks.



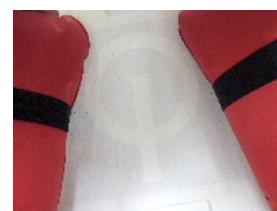
FAST DAGGERBOARD ADJUSTMENT YOU'VE REALLY

GOT TO TRY IT TO BELIEVE HOW AWESOME THIS SYSTEM IS! Most standard hulls have one shock cord that serves two functions –hold down for sailing to windward and hold up for sailing off the wind. It requires two-hand operation, is difficult to use, and creates drag as the board is raised and lowered. Our new rigging **only requires one hand** for precise height adjustment with minimum effort. There is also a separate hold down system made with a specially sewn black spectra webbing. This exclusive

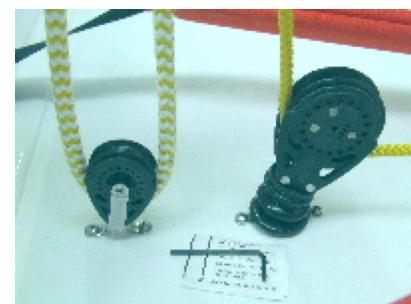
Optisailors design eliminates the friction caused by standard systems while ensuring the board is tied in as required by the rules. In addition the **board is cock aft** while up, which is preferred for **low helm and down wind speed**. A handle has been added to the board hold down system making it much easier to take on and off.



RACING NON-SKID - - The Optisailors nonskid pattern maximizes traction in the forward cockpit where it is needed with extra aggressive nonskid applied in a “T” shape. This is the “sweet spot” where a properly trained racer should land after a good roll tack. The non-skid is designed to decrease bailer wear in areas where non-skid is not necessary. The **Optimist “I O” emblem** is placed on the bow floor section with non-skid For traction and it just *looks cool*.



Choice of the 57 mm **Harken Carbo Ratchamatic** or **Ronstan’s New Frederiksen main sheet blocks**. In light air they are freewheeling in both directions. As the wind increases the ratchet turns itself on. This function is adjustable with the provided allen wrench. The block has ultimate grip/cleating power up to 14:1 for reduced arm fatigue. A **Harken rubber standup boot** replaces the normal spring, keeping the mainsheet from getting caught in the spring.



of

OPTISAILORS DOUBLE PADDED EASY ADJUST HIKING STRAPS –

Racers do not have the time to watch their feet enter the hiking straps before trusting them. The straps must be in the perfect position every time and padded on both sides in case of roll over. The Optisailors hiking straps have been specially sewn with a loop that allows them to be lifted upward and outward where you need them. The lift shock cord has been routed to a position under the airbag for the **perfect lift angle**.



Hiking straps securing line has been done in such a way that it is easily adjusted without untying a cumbersome knot. **Simple push or pull the inner core and outer cover to change the position.** No cleats are involved.

NEW MAST CONTAINMENT / ADJUSTMENT - A nylon-coated polymer-elastic hold down is used instead of line on the deck for **quicker rigging and lower friction** encouraging mast rotation. An Optiparts EX1203 mast clamp completes the system for **extra safety**.



The Optiparts EX1210 racing **deck collar** and mast sleeve reduces friction and protects the mast against wear. It allows the mast to be raked for all points of sailing while preventing side movement. At the request of McLaughlin these collars were beefed-up and are the strongest, **lowest friction** available. The **mast step is equipped with a new nut and locking finger system**, which prevents the adjustment from changing due to rough seas or travel vibration. It differs from a double lock nut system, which reduces fore and aft play. This **new system allows the mast to go further forward** and aft for better performance down wind.

MAXED OUT MAIN SHEET SYSTEM - Optimist sailors need a thick easy to grasp mainsheet upwind but cannot afford the extra weight or loose responsiveness down wind. Our **double tapered mainsheet** solves this problem. A trigger snap is also sewn to the end of the sheet for **quick conversion from a 3:1 to 2:1 ratio**. Unclip the shackle and you will reduce friction, and the amount of line to be pulled in by 1/3. This is fast in light air situations.



3 to 1



2 to 1

Harken Carbo blocks, (engineered from the best of materials), are the strongest and lightest blocks made for the Optimist. The boom block for the Optisailors boat is specially made in our factory. A **Harken Ti-Lite block** is connected to a stainless steel micro-trigger snap by custom sewn, zero stretch Spectra webbing to minimize weight on the boom/sail while allowing a shorter main sheet.

