

UNI TITANIUM

ULTIMATE GRAND PRIX PERFORMANCE



SAILMAKERS



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LIGHT AND DURABLE

Uni-Titanium® is the latest development in making sails that are light AND hold their designed shape over a range of wind speeds.

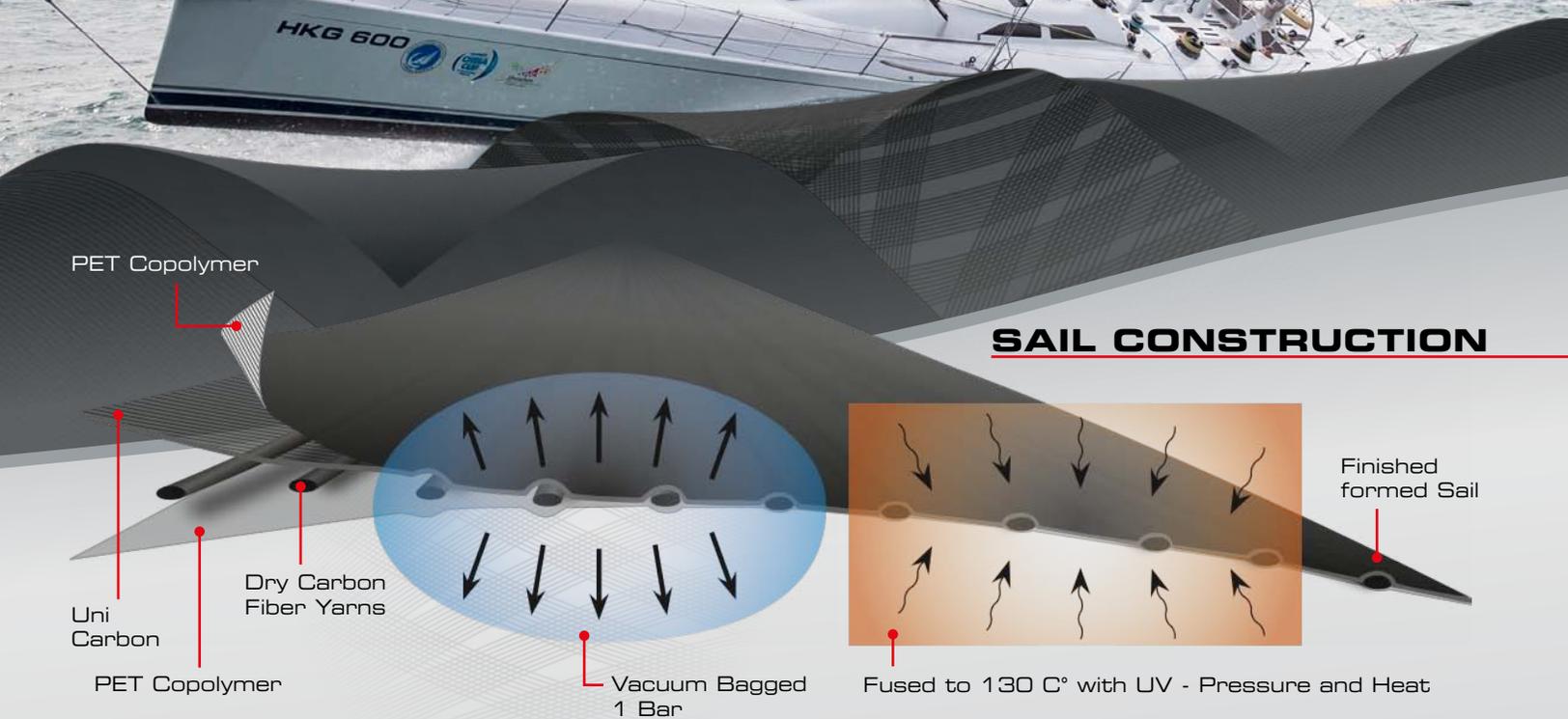
What makes Uni-Titanium sails so fast is a grid of loadpath carbon yarns and a thin layer of uni-directional carbon filaments within the lamination. The result is the sail keeps its trimmed shape no matter if the wind goes up or down. When a puff hits, the sheet load increases, which propels the boat faster; no energy is lost due to sail distortion. Every Uni-Titanium owner has commented that their boats are .3 to .5 knots faster upwind after adding Uni-Titanium sails to their inventories.

The crucial component in Uni-Titanium sails is the thin layer of uni-directional carbon filaments in the laminate. The panels of uni-carbon look and feel like Mylar film, but they are unyieldingly strong. The uni-directional carbon layer carries the loads and

stresses not in-line with the primary aerodynamic loads, which are matched by the carbon fiber yarns that run continuously between the three corners.

The uni-directional sheets and loadpath grid are laminated between two 3D-shaped Mylar skins, which are coated with a copolymer that forms a strong bond when heat and pressure are applied. The heat makes the copolymer flow, totally encapsulating the carbon yarns that were laid without being coated in glue. The pressure from vacuum bag finishing squeezes the Mylar to further encapsulate each individual yarn.

Unlike most high-tech sails in which structural yarns only run the width of an individual panel, a Titanium sail's continuous yarns eliminate seam loads, seam distortion, wrinkles, or worse yet, seam failure. Uni-Titanium sails are smooth and wrinkle free.



The Difference

In most other sail construction methods a flat sail is laminated with glue, cut apart into pieces and re-formed into a 3-dimensional shape. This compromises the structural integrity of the fiber array. That's not the case with Uni-Titanium sails.

Uni-Titanium sails keep their shape. They are made in one piece without load-bearing seams and with yarns running throughout. The forces on the sails are optimally dispersed over the entire yarn structure. Uni-Titanium sails are light and flexible. Because the lamination process uses no adhesives on the fibers, Titanium sails remain flexible and strong. This increases the stability of the shape while reducing weight.

Uni-Titanium sails last. The adhesives used in manufacturing most laminate sails combined with exposure to the sun can make those sails brittle and delamination can occur. By not using glues, Titanium sails remain

flexible and strong. By using only dry carbon yarns, UK Sailmakers builds sails with the lowest stretch possible.

The Sail Design

An optimal sail starts with a good design. With the help of modern sail design software, all UK sails are individually crafted to meet your needs. New computer programs make it possible for UK Sailmakers sail designers to create 3D sail profiles that can be analyzed and tested with visual airflow simulations. The resulting sail design is cut with precision by a computer-driven cutter and the yarns are laid by machine along the loadpaths.

The Guarantee

Uni-Titanium mainsails and non-overlapping genoas are guaranteed against delamination for two years, overlapping genoas come with a one-year guarantee. No other sailmaker makes this guarantee. Terms and restrictions apply. Check with your local UK Sailmakers loft.

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More information on
www.uksailmakers.com

50 locations worldwide



UK Sailmakers International
175 City Island Ave.
Bronx, NY 10464
Tel: +1 718-885-2028
Mob: +1914-954-0660
E-Mail: info@uksailmakers.com
Web: www.uksailmakers.com