

# RACING MAINSAILS

A BOAT'S WORK HORSE



Your mainsail is the most tireless worker of your boat's sail inventory. Whether in calm winds or reefed down in 35 knots ... club or grand prix racing - the mainsail needs to go the distance. Adjustability is key; the sail needs to be made full for light and flat for heavy air and once trimmed, that shape needs to stay put until the sail trimmer makes a change.

Racing mainsails should also be as light as possible. Lighter weight decreases heeling and pitching moments and lets the sail take shape in drifting conditions.

To meet these demands, UK Sailmakers has developed various constructions and to best suit your needs and wallet.



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## R&D

UK Sailmakers as a group invest considerable resources to an ongoing research and development programme, refining design and construction techniques to make sure our products are state-of-the-art. This investment has seen the group deliver two new products, Uni Titanium and X-Drive.

The most serious racers will migrate towards our Titanium or Uni-Titanium® continuous yarn membrane sails. Other racers may opt for our new X-Drive or Tape-Drive® sail that can win races, season after season. Construction options such as Powerhead and Square Top mainsails or Fully-Battened mains are also considerations to address.

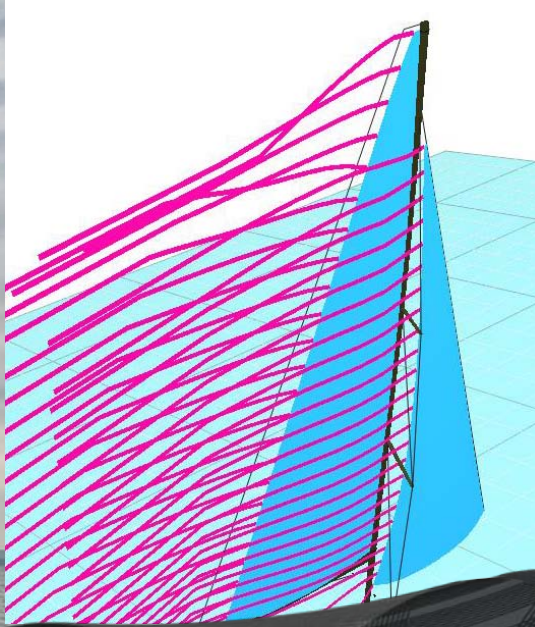
## OPTIMIZATION

UK Sailmakers will help to optimize your mainsail for the type of racing or conditions that you sail under. This may include Full Battens, Powerhead, Square Top (Fat Head), specific reef positioning and custom luff hardware.

Full battens not only increase the life of the sail in windy environments, they help to increase the roach profile of the mainsail as well. With a well design roach profile and the right amount of twist the inclusion of full battens may help improve the performance of your new mainsail.

Square Top mainsails may help improve performance with minimum change in rating. By increasing the sail area at the top of the mainsail we can stabilize the air flow across this wider section of sail reducing the tip vortices, with the right design we can reduce drag, therefore producing a higher aspect and more effective sail area, helping to improve downwind and upwind speed.

**UNI-TITANIUM** shape retention is second to none. For boats above 45', the laminate of uni-directional carbon along with the continuous dry carbon load-path yarns produces large sails that are stronger, lighter, smoother and have increased shape holding through a wide wind range.



## SAIL DESIGN

The designers at UK Sailmakers have access to all top-level design programs and CFD analytical tools to make fast sails for boats ranging from the America's Cup to grand prix IRC boats and maxis. We also have the ability to pool our talented designers together when necessary.

Product Name	UNI-TITANIUM	TITANIUM	X-DRIVE	TAPE-DRIVE
Description	Highest performance, best shape-holding sail UK Sailmakers makes.	Lightest weight racing sail with continuous loadpath yarns.	Loadpath reinforced laminate sail.	Longest life loadpath reinforced laminate sail.
Boat Size	40 feet and up	30 feet and up	20 feet and up	20 feet and up
Construction	Molded membrane containing a layer of uni-directional carbon yarns oriented leech-to-uff along with carbon loadpath fibers running continuously from corner-to-corner over a Technora scrim.	Molded membrane containing carbon loadpath fibers running continuously from corner-to-corner over a Technora scrim. White or grey taffeta on one or both sides is an option for offshore racers.	Extra light-weight cross-cut laminate panels reinforced with corner-to-corner high-strength single-yarn tapes of carbon or glass fiber that are applied by machine up to 11 at a time.	Cross-cut laminate panels reinforced with continuous corner-to-corner carbon or glass fiber reinforced tapes. Black aramid, Spectra or polyester reinforced laminates.
Appearance	Black	Black or Gray	Black, gray or white	Black or white
Shape Stability	★★★★★★	★★★★★	★★★★★	★★★★★
Condition after 500 hours	★★★★★	★★★★★	★★★★★	★★★★★
UV Resistance	★★★★★	★★★★★	★★★★★	★★★★★
Price	\$\$\$\$\$	\$\$\$\$\$	\$\$\$-\$\$\$\$	\$\$\$-\$\$\$\$

**TITANIUM** sails are the lightest high-performance sails UK Sailmakers sells, and they are now available with black or grey films. Dark films reduces glare, which allows trimmers to see the sail shape much easier. Black films also creates greater UV resistance for longer sail life, and the opaque films improve the lamination process to create longer life.

UK Sailmakers believes our Titanium and Uni-Titanium lamination is better than any other sail on the market and hence offers a 24 month warranty on all Titanium mainsails.

## Standard Features

- Sail numbers and draft stripes
- Girths optimized to the boat's rating
- Measurement certification
- Extra secure batten pockets with webbing reinforcement at the inboard end.
- Tellaes sewn at each batten pocket
- Webbed O-rings at tack and clew
- Loose foot
- Cunningham
- Anodized aluminum headboard
- Sail bag and sail ties
- Low stretch leech and foot lines

## Options

- Tapered or custom carbon battens
- Luff hardware with ball bearings, sliders or Tides Marine Strong Track
- Carbon headboards and batten boxes
- Rows of Reefs
- Over the head leech line
- Batten bender
- 3-letter country code
- Insignia

**X-DRIVE** has evolved from our very successful Tape-Drive construction. Part of our R&D involved developing new machines that allowed the sailmaker to lay up to 11 thin carbon tapes at a time, which are applied to a 3D-shaped laminate skin in a grid from head to clew, head to tack and tack to clew. With so many tapes running across the sail, the sail has incredible strength and stretch resistance. The cost of the sail is also controlled because the sail surface can be made out of an inexpensive, lightweight laminated material, whose only job is to give the sail its airfoil shape. All the sail's strength comes from the dense grid of continuous high-strength yarns that are bonded to the sail's surface.

**TAPE-DRIVE** in all its construction combinations is perfect when longevity is the primary requirement. The beauty with Tape-Drive sails is that after a 3-5 year peak performance life, the sails still have plenty of strength to last for another 3-5 years of cruising, deliveries and practice.

UK sails are well finished and presented, fast out of the bag, easy to trim and have excellent shape retention. For the right racing mainsail for you and your boat, talk to a UK representative.



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