



# SYMMETRICAL SPINNAKERS



## **ENGINEERED TO LET YOU SAIL DEEPER AND FASTER.**

Unless yours is a sprit-boat, the primary sail for offwind work is a symmetrical spinnaker. UK's sail development program using two-boat testing and our exclusive computer programs for design and production result in the best symmetrical spinnakers in the world.

### **The Matrix Cut** We call our design The Matrix Cut.

This fully radial layout features narrower panels, each oriented to better align the threads in the cloth with the primary load paths in the spinnaker. This is the most effective way to reduce distortion.

Why is distortion so damaging? Distortion alters the sail's designed shape. This becomes most obvious close reaching when spinnakers without our Matrix Cut stretch in the middle, causing their leeches to harden or hook; hooked leeches reduce driving power, create drag, and increase heeling.

Our greater efficiency in load-carrying without distortion permits flying one spinnaker through a wider range of wind angles and windspeeds. This reduces sail changes as well as the size of your sail inventory, saving you time, effort and expense.

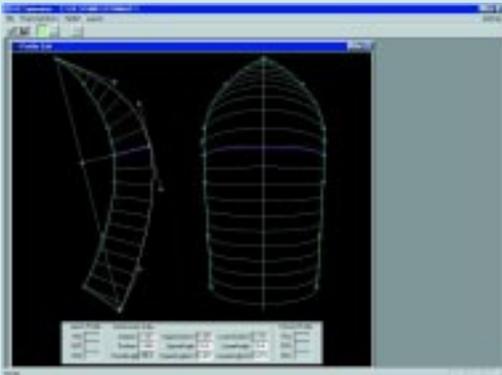
UK's Matrix Cut advantages also permit our use of lighter weights in the latest spinnaker fabrics. Lighter sails fill faster and fly with less jitters. A sail that fills quicker in light air means putting extra boatlengths on your competition. And sails that are more stable are easier to fly and to carry at deeper angles.

Simply described, the UK Matrix Cut is the fastest symmetrical spinnaker made.



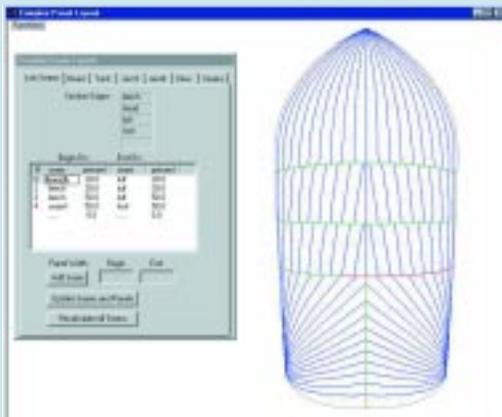
***The Sail Technology Leader***

## AccuCut™



Knowing what shapes are fast must be coupled with an ability to produce those shapes. The heart of our success in doing this is UK's proprietary AccuCut design program. Written for our designers and updated constantly with their input and our two-boat testing results, AccuCut gives UK a tool not available to any other sailmaker.

The program is very visually oriented; the designer can work directly with the shape of the sail rather than with individual panels. He can look at it from any angle, slice through it to check its shape, and evaluate variations of mathematical curvature with analysis graphs. The designer has direct control over the flying center seam shape, the backbone of the spinnaker, and can define the cross-sectional depth and shape at any height in the sail.



## Development Program



UK's two-boat testing uses real-world performance to improve sail design.

Two-boat testing is the most accurate way to evaluate sail-development programs. Most sailmakers avoid doing it, relying instead on theoretical/computer models and wind-tunnels. At UK, we believe the extra effort is worth making, to see sails in real-world conditions.

We test two evenly matched racer/cruisers, adding results to our design software where we quantify all the parameters. This allows us to optimize the trade-off between curved depth and projected area, producing spinnakers that can sail deeper and faster.

## Fabrics & Graphics

UK Matrix Cut Spinnakers profit from dramatic improvements in spinnaker fabrics whose better engineered weave constructions, produced on state-of-the-art looms, deliver lighter and stronger fabrics than those available just a few years ago. These weaves are coupled with new coatings that provide total water repellency and zero porosity. The days of a spinnaker gaining twice its weight in water on a foggy day are over.

Custom "inlays" can be programmed in AccuCut for virtually any graphics you want without adding weight or compromising the three-dimensional shape we've designed into your sail.



Express yourself without adding weight or compromising shape.

## Get Some Good Advice

Our Sails Consultants can help you determine the right downwind inventory for your particular boat and your sailing plans and pick the right fabrics from the spectrum that's now available. Call us today or check in at our website at [www.uksailmakers.com](http://www.uksailmakers.com)



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**For a more in-depth look at symmetrical spinnakers, visit our website at: [www.uksailmakers.com](http://www.uksailmakers.com)**