

the Raceline 380

■ by CRAIG SCHIONNING

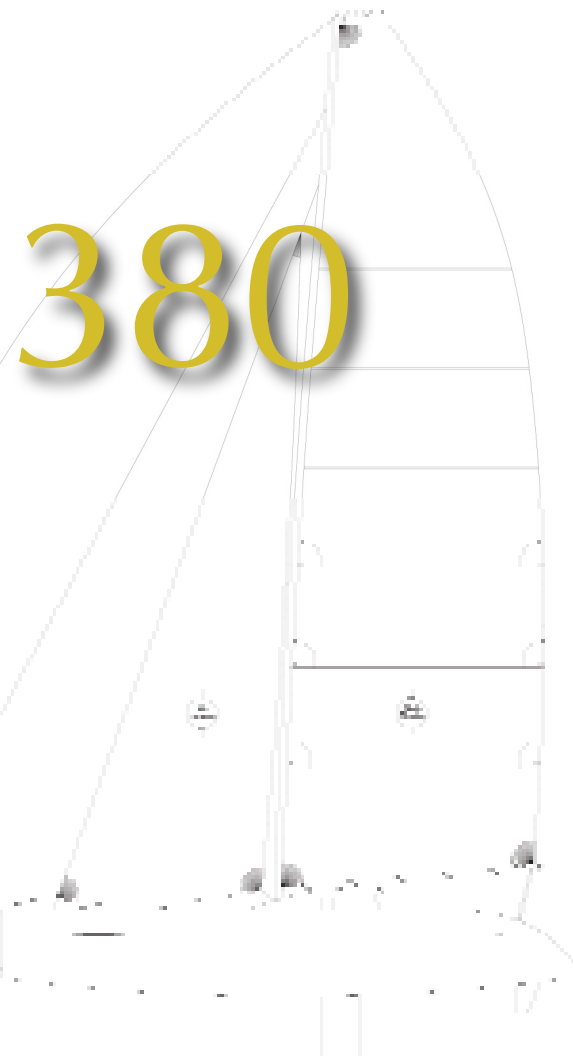
THE Raceline 380 is a powerful downwind flyer. Designed specifically for downwind work with full bows and a flat section aft below WL for planing. This design has high freeboard for offshore racing which will aid in keeping the crew drier and more comfortable. The design brief was to ensure the boat is tough and durable for rough conditions often experienced offshore. The RL 380 will be just as comfortable on flat water however she will excel in heavy airs.

The relatively simple beam layout keeps the construction time to a minimum. As with the Spirited 380 build process the RL 380 is built the right way up. The bottom of the hulls are strip-planked over pre-cut temporary frames. The same jig can be used for both hulls. Each hull side supplied pre-cut and when joined, is assembled in one piece. This allows the hulls to be built very quickly. The small gunwhales are also strip-planked to soften the corners with the deck also supplied as a flat full sized panel. Depending on demand, this design may be moulded to speed up production and reduce fairing.

The hulls can be packed onto a truck or trailer for transportation if required. Because the beams are 'socketed' into the hulls, the boat can be easily demounted. The option of carbon beams will increase the stiffness of the platform and reduce weight. The beams are situated just below the deck, keeping the tramps high off the water for a drier ride. A composite (preferably carbon) prodder extends from the mast beam over the forebeam in one piece for extra strength and simplicity.

The rig is high performance, with 100sqm of working sail area, she is well-powered. A carbon mast and boom would optimize this design's performance potential. Combining this with the lightweight composite rigging now on the market would drastically reduce the weight above deck.

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SPECIFICATIONS:

LOA	11.7m / 38ft
BOA	7.4m / 24ft 2in
Draft	0.35m / ft 1in
Displacement	2500 kgs / 5511 pounds
Mast height	18m / 59ft
Sail Area	100 sqm / 1076 sqft
Freeboard	1.4m / 4 ft 6in
Clearance below beams	1m / 3ft 3in
Hull Beam to length ratio	14.6:1

