

Dolphins galore

A designer's view of Trina and her offspring

by Ted Brewer



Yankee Dolphin



Trina



Morgan 24



O'Day 25

BILL SHAW'S SWEET LITTLE TRINA HAS LONG BEEN ONE OF MY favorite small yacht designs. From her yawl rig to her keel/centerboard hull with its medium displacement and triangular-shaped centerboard, *Trina* appears to be a miniature version of renowned cruiser/racer, *Finisterre*.

Bill Shaw worked for Sparkman & Stephens at the time, and *Trina* was given a careful review in 1959 when George O'Day commissioned S&S to design a new midget ocean racer. I'd always thought that the fiberglass Dolphin was a duplicate of the wooden *Trina* except for her sheerline and construction. Comparing the two, however, I discovered significant differences. Still, it's obvious that the designers at S&S had *Trina* in mind when they began work on the Dolphin design two years later.

Looking at the numbers, we can see where S&S made slight increases in the beam, waterline length, and ballast to give the Dolphin a lower displacement-to-length ratio, along with a touch more stability. A bigger change is the Dolphin's higher-aspect-ratio centerboard, which reduces wetted area and should improve efficiency. All these differences add up to slight performance increases while, to many eyes, the more conventional S&S sheer improves her aesthetic appeal as well.

Better rating


The Dolphin's sloop rig adds a few square feet of sail area, of course, but *Trina's* yawl rig

would probably rate better under the Midget Ocean Racing Club rule of that era.

The newer Morgan 24 and O'Day 25 designs have lower displacement/LWL ratios due to their considerably longer waterlines, despite considerably heavier displacement. They also have lower beam/LWL ratios and, undoubtedly, a finer entrance. This should reduce resistance while their deeper, higher-aspect-ratio centerboards will improve weatherliness. The Morgan would give both the Dolphin and *Trina* stiff all-around competition. Due to her smaller sail area, the O'Day will be harder pressed to keep up with the fleet in light air but should shine when it breezes up.

The four little yachts are similar in their comfort ratios. In any case, such small craft can hardly be considered comfortable in heavy weather regardless of the numbers. Bear in mind that shoal-draft, keel/centerboard boats will recover slowly, if at all, in the event of a capsize beyond 90 degrees. These small yachts cannot be recommended for serious

ocean passageing.

Still, given good condition and gear, any one of them would make a fine little singlehander or a cruiser for a cozy couple. A slight exception here for a sister to *Trina*: any wooden yacht that'll sport more than 40 candles on her next birthday cake had best be checked by an expert before she's taken very far from the pier. 

	Yankee Dolphin	Trina	Morgan 24	O'Day 25
LOA	24' 2"	23' 11"	24' 11"	24' 10"
LWL	19' 0"	18' 6"	21' 6"	21' 0"
Beam	7' 8"	7' 5"	8' 0"	8' 0"
Draft, up/down	2' 10"/5' 2"	2' 9"/5' 3"	2' 9"/6' 6"	2' 6"/6' 0"
Displacement	4,250 lb	4,300 lb	5,000 lb	4,800 lb
Ballast	1,650 lb	1,500 lb	1,900 lb	1,600 lb**
LOA/LWL ratio	1.272	1.293	1.159	1.182
Beam/LWL ratio	0.403	0.401	0.372	0.381
Displ./LWL ratio	276.6	303.2	224.6	231.4
Sail area	296 sq ft	289 sq ft*	310 sq ft	270 sq ft
SA/Displ. ratio	18.1	17.5	17.0	15.2
Capsize screening	1.89	1.83	1.87	1.90
Comfort ratio	21.05	22.73	21.35	20.85
Year	1959	1956	1965	1975
Designer	S&S	Bill Shaw	Charley Morgan	Ray Hunt

*Yawl rig. **Estimated, based on similar O'Day/Hunt small cruising yachts.