

## IRC 12.45 m Racer Cruiser

**Specification**  
01-2023

**Type**  
12.45 m production dual purpose yacht aimed at providing competitive IRC performance and comfortable accommodation.

**Design**  
Mills Yacht Design, Mark Mills  
[www.mills-design.com](http://www.mills-design.com)

**Design Category**  
CE category A 10

Dimensions	
Hull length	12.45 m
LWL	10.66 m
Beam max	3.75 m
Draft	2.65/2.55 m
Displacement	6.780/6.940 kg
Ballast	3.220/3.380 kg
I	16.97 m
J	4.82 m
P	16.58 m
E	5.90 m
ISP	18.40 m
STL	5.50 m

**Construction**  
E-glass, PVC core, epoxy vinylester resin  
Vacuum assisted resin infusion  
Gelcoat finish on hull, deck and internal structure  
Composite structural IGU for interior arrangement

**Keel**  
580 kg SG iron fin with 2640/2800 kg lead/antimony bulb, total 3240/3380 kg (approximate), adjustable draft and bulb weight.

**Rudder and Steering**  
Carbon fiber rudder stock  
Jefa self-aligning rudder bearings  
Carbonautica 1000 mm composite twin wheels

**Deck**  
Harken winches:  
2 x primary winches 50.2 STP  
2 x main sheet winches 50.2 STP  
2 x halyard winches 46.2 STP  
Harken deck gear package:  
2:1 mainsheet to winch  
Mainsheet traveller and track, blocks for 6:1 windward sheeting traveler purchase system  
Longitudinal jib tracks, ball bearing cars and blocks for 12:1 purchase system  
Spinnaker sheet and deflector blocks  
Halyard lead blocks  
7 Spinlock clutches  
Custom alloy fairleads  
4 opening portlights  
3 opening hatches  
1 opening round foredeck hatch  
Custom tempered laminated cabin windows  
SS stanchions, pulpits and pushpits  
5 mm 1x19 SS lifelines  
Custom stainless steel chainplates recessed in hull  
Anchor locker with drain, provision for mounting the windlass in the locker  
40 mm molded toe rail to mast  
Composite mast collar  
Recessed companionway sliding hatch  
Locker for gas bottle  
Plastimo 135 mm compass

**Mast and Rig**  
Axxon Composites carbon fiber mast  
Alloy spreaders  
Rod rigging  
Integral hydraulic mast jack  
Carbon fiber boom  
Carbon fiber spinnaker pole  
Hydraulic integral backstay adjuster  
Racing head stay foil twin groove Harken Carbo black  
Provision for:  
1 main halyard 2:1  
2 masthead spinnaker halyard  
1 wing spinnaker/jib halyard to spectacle at I height  
1 CI I height jib halyard  
1 pole lift 1 m below I

**Engine**  
Yanmar 30 Hp diesel engine with SD25 sail drive  
Vetus 110 l diesel tank, level indicator, fuel filter, water separator  
Diesel fill on deck  
Radice 2 bladed folding propellers  
Single lever engine control

**Electrical**  
12 volt DC  
Victron Energy 2x110 Ah AGM house batteries  
Victron Energy 1x100 Ah AGM starter battery  
LED interior lights  
LED navigation lights

**Plumbing**  
200 l flexible fresh water tank  
Pressurized water system  
Hand basin in head  
Galley sink, mixer tap  
Jabsco manual bilge pump 3000 l/h  
Rule electric bilge pump 7570 l/h  
Jabsco marine toilet  
Fresh water fill on deck

**Interior**  
All bulkheads and other interior components in PVC foam cored composite  
White colored gelcoat surfaces for ease of maintenance, lightweight and modern appearance  
Honeycomb cored satin varnished natural oak cabin doors and cabinet doors  
Custom lightweight alloy cabinets to match alloy door frames, alloy portlights trims  
Custom alloy handrails  
Southco satin polished door handles  
High density foam cushions, Sunbrella upholstery  
Central salon area with settees port & starboard, large wet locker starboard, cabinets with doors on P&S  
Enclosed head to port forward of mast, s/s hand basin, shower, china bowl, cabinet  
Forward cabin with double berth, wardrobe, large space under the bed, naturel light from foredeck hatch  
Large double berth cabin port & starboard aft, hanging lockers, double portlights  
Galley to port by companionway, s/s sink, gimbaling cooker, refrigerator compartment  
Navigation station to starboard of companionway  
Lightweight composite companionway ladder for easy access to engine