

M.A.T. 12⁴⁵ IRC 12.45 m Racer Cruiser

Specification

January 2021

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

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
l	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 STA

2 x main sheet winches 46.2 STA

2 x halyard winches 46.2 STA 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

6 opening portlights

3 opening hatches

1 opening round foredeck hatch

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 I 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 2x100 Ah AGM house batteries

Victron Energy 1x70 Ah starter battery

LED interior lights

LED navigation lights

Plumbing

200 I 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

Rule electric blige pump 757

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, gimballing cooker,

refrigerator compartment

Navigation station to starboard of companionway

Lightweight composite companionway ladder for easy access to engine