

# M.A.T.

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## M.A.T. 1010

### IRC 10.10 m racer cruiser

#### Specification

February 2012

#### Type

10.15 m dual purpose yacht aimed at providing competitive IRC performance and comfortable accommodation

#### Design

Mills Yacht Design, Mark Mills  
Fox Engineering, John Fox  
ISAF certified compliance with International Standard ISO 12215  
www.sailing.org/sailors/plan-review-certificates.php

#### Design Category

CE category A10

#### Dimensions

Length overall	10.15 m	I	13.60 m
Hull length	10.15 m	J	3.82 m
LWL	8.75 m	P	13.40 m
Beam max	3.32 m	E	4.63 m
Draft	2.10 m	STL	4.56 m
Displacement	4250 kg	Mainsail	38.39 m <sup>2</sup>
Ballast	2150 kg	Headsail	28.32 m <sup>2</sup>
Fuel tank	56 l		
Fresh Water tank	100 l		

#### Construction

Hull and deck produced with vacuum assisted resin infusion technology (VAI) in PVC foam cored vinylester/e-glass  
Bulkheads produced in PVC cored vinylester/e-glass, laminated and structurally bonded to hull and deck  
Multiaxial structural e-glass reinforcement fabrics  
White colored isophthalic NPG acid gelcoat on hull, deck, bulkheads and interior molding  
Standard gelcoat color: RAL 9010, others on request  
Molded nonskid on deck and cockpit floor  
Composite structural liner for interior arrangement  
Light composite interior components in cored polyester/e-glass

#### Keel

550 kg SG iron fin with 1600 kg lead/antimony bulb = 2150 kg (approximate)  
Recessed in the hull and bolted to structural composite frame  
Coated and faired with a layer glass/epoxy

#### Rudder and Steering

Composite rudder and carbon fiber stock  
Jefa high performance self-aligning top/lower rudder bearings  
Tiller steering or composite twin wheel steering on request

#### Deck

Primary winches: 2 x Harken radial B40.2 STA self-tailing 2 speed alloy winches  
Halyard winches: 2 x Harken radial B35.2 STA self-tailing 2 speed alloy winches

*Winches for 2:1 mainsheet on request*

Harken block and car package including:

- Windward sheeting mainsheet traveller and track
- Longitudinal jib tracks, cars and purchase system
- Mainsheet purchase blocks
- Spinnaker sheet and deflector blocks
- Foreguy blocks
- Halyard lead blocks
- Folding pad eyes

Spinlock XTS series rope clutches on centerline

Custom alloy fairleads

4 opening BSI moonlight coach roof portlights

*Custom tempered glass coach roof windows on request*

2 opening BSI moonlight portlights in cockpit

1 opening BSI moonlight round foredeck hatch

Portlights interior trims in anodized alloy

Molded toe rail to mast

Custom stainless steel open bow pulpit and stern rail, stanchions, 4 mm S/S

lifelines, 620 mm high

Custom stainless steel chainplates recessed in hull

Recessed companionway sliding hatch

Plastimo 135 mm compass

Right to modification without prenotice reserved

#### Mast and Rig

Composite mast collar

Alloy mast with 2 sets of aft swept spreaders

Alloy racing boom with internal outhaul purchase

*Carbon fiber mast and boom on request*

Carbon fiber spinnaker pole

*Carbon fiber bow sprit on request*

Rod rigging

Composite T5 backstay

Long stroke integral hydraulic backstay adjuster

Solid mechanical vang

Lopolight combined LED navigation lights/anchor light on mast

Provision for:

1 main halyard

1 Cl I height jib halyard

1 wing spinnaker/jib halyard to spectacle at I height

2 masthead spinnaker halyard

1 pole lift

#### Engine

Yanmar 3YM20C 22 Hp diesel engine with SD20 sail drive

*Yanmar 3YM30C 30 Hp engine on request*

Engine panel recessed in the cockpit for protection

Fresh water cooling

Sea water filter

Exhaust with muffler and water trap

56 l diesel tank

Shut off valve between the diesel tank and the engine, diesel filter with water separator

Diesel fill on deck

2 bladed folding propeller

Teleflex single lever engine control

#### Electrical

12 volt DC

12 volt 60 A alternator on engine

Deka 1x90 amp hour group 27 deep cycle house battery

Deka 1x70 amp hour group 24 starter battery

BSS main DC panel with house, engine and emergency switches

12 volt DC distribution panel with automatic circuit breakers

Voltmeter

12 volt DC plug

LED interior lights

#### Plumbing

100 l flexible fresh water tank

Jabsco pressurized water system

S/S hand basin in head

Whale mixer tap/pull out shower head

S/S galley sink

Whale mixer tap

Jabsco manual bilge pump in cockpit 3000 l/h

Rule electric bilge pump 5.678 l/h

Whale electric shower drain pump

Jabsco marine toilet

Racing type marelon seacocks and flush valves

Fresh water fill on deck

#### Accommodation

Interior plan as indicated by Mills Design

All bulkheads and other interior components in PVC foam cored GRP composite

White colored gelcoat surfaces with wooden trim for ease of maintenance, lightweight and modern appearance

Honeycomb cored, satin varnished naturel oak wood veneer floor boards, cabin doors and cabinet doors

Custom lightweight alloy cabinets to match alloy door frames, alloy portlights trims

Custom alloy handrails

Southco alloy door handles

High density foam cushions, Sunbrella upholstery

Central salon area with settees port & starboard

Enclosed head to forward of mast, s/s hand basin, shower, china bowl, cabinet, wet locker

Double berth cabin port & starboard aft, portlights for naturel light and fresh air

Galley to port by companionway, s/s sink, cooker, refrigerator compartment

Navigation station to starboard of companionway