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M.A.T. 12 IRC 12.45 m racer cruiser

Specification

February 2012

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

Mills Yacht Design, Mark Mills

Design Category

CE category A 10

Dimensions

Length overall	12.45 m	40,8 ft
Hull length	12.45 m	40,8 ft
LWL	10.66 m	34.9 ft
Beam max	3.75 m	12.3 ft
Draft	2.55 m	8.4 ft
Displacement	7.000 kg	15.430 lbs
Ballast	3.625 kg	7975 lbs
1	16.97 m	55.7 ft
J	4.82 m	15.8 ft
Р	16.58 m	54.4 ft
E	5.90 m	19.4 ft
LP	4.94 m	16.2 ft
ISP	18.40 m	60.4 ft
STL	5.50 m	18.0 ft
Mainsail	58.21 m2	627 ft2
Fore triangle	42.53 m2	458 ft2
Spinnaker	147.00 m2	1584 ft2
Fuel Tank	137 I	
Water tanks	200	
Trator tarmo	2001	

Construction

Hull and deck produced with vacuum assisted resin infusion technology

(VAI) in PVC foam cored vinylester/e-glass
Bulkheads produced with VAI in PVC cored vinylester/e-glass, laminated and

structurally bonded to hull and deck

Multiaxial structural e-glass reinforcement fabrics

White colored isophtalic NPG acid gelcoat on hull, deck, bulkheads and

interior molding

Molded nonskid on deck and cockpit floor Composite structural IGU for interior arrangement

Light composite interior components in PVC cored polyester/e-glass

*Vacuum assisted resin infusion technology

Resin will fill every little gap that is under vacuum

The structure is free of voids

65/35 glass/resin content

Keel Frame

Special aluminum alloy keel/mast frame Anodized and protective epoxy paint coated

Keel

950 kg SG iron fin with 2675 kg lead/antimony bulb, total 3625 kg (approximate), adjustable draft and bulb weight.

Recessed in the hull

Coated and faired with a layer glass/epoxy

Rudder and Steering

Composite rudder and custom carbon fiber stock Jefa high performance self-aligning top/lower rudder bearings Provision for emergency tiller on rudder stock Composite twin pedestals

Jefa twin 1000 mm alloy wheels black

Primary winches: 2 x Harken Radial B50.2 STA self-tailing 2 speed alloy winches

Right to modification without prenotice reserved

Halyard winches: 2 x Harken Radial B46.2 STA self-tailing 2 speed alloy

Mainsheet winches: 2 x Harken Radial B46.2 STA self-tailing 2 speed alloy winches

4 x Harken 10" lock-in winch handles

Harken Black Magic racing block and car package including:

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

Spinnaker sheet and deflector blocks 2:1 Spinnaker sheet tweaker blocks

2:1 Foreguy blocks

Halyard lead blocks

Halyard crossover blocks

4 Spinlock XX and 2 XTS series clutches

Custom alloy fairleads

Wichard folding pad eyes

8 opening BSI Moonlight portlights

4 opening BSI Moonlight hatches

1 opening BSI Moonlight round foredeck hatch

Portlights interior trims in anodized alloy

Stainless steel open bow pulpit and stern rail, stanchions, 5 mm S/S lifelines,

620 mm high

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 Opening life raft locker in cockpit floor

Locker for gas bottle

Plastimo 135 mm compass

Mast and Rig

Alloy mast with 2 sets of 20 deg. swept spreaders

Carbon fiber mast with 2 sets of 20 deg. swept alloy spreaders on request

Alloy boom finished to match rig with 12:1 internal outhaul

Carbon fiber spinnaker pole
Provision for attachment of mainsheet at boom end and gooseneck

Twin tie rods Rod rigging

Gas strut vang Integral backstay adjuster

Provision for:

1 main halyard 2:1

Cl I height jib halyard
 wing spinnaker/jib halyard to spectacle at I height

2 masthead spinnaker halyard

1 pole lift 1 m below I

Lopolight combined LED navigation lights/anchor light on mast

Engine

Yanmar 3YM30C 30 Hp diesel engine with SD20 sail drive

Yanmar 3JH5CE 40 Hp diesel engine with SD50 sail drive on request

Fresh water cooling Sea water filter

Exhaust with water trap

137 I Vetus diesel tank, level indicator, fuel filter, water separator

Shut off valve between the diesel tank and the engine

Diesel fill on deck

2 bladed racing folding propellers

Teleflex single lever engine control

Engine panel recessed in the cockpit for protection

Electrical

12 volt DC

12 volt 60/80 A alternator on engine

2x90 amp hour group 27 Deka AGM deep cycle house batteries

1x90 amp hour group 27 Deka AGM deep cycle starter battery

Blue Sea Systems main DC panel with house, engine and emergency switches

Blue Sea Systems 12 volt DC distribution panel with 13 automatic circuit breakers

3 position voltmeter

12 volt DC plug

LED interior lights

Plumbing

200 I flexible fresh water tank Jabsco pressurized water system Hand basin in head

Whale tap/pull out shower head at basin

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Galley sink Whale mixer tap Two Jabsco manual bilge pumps, cockpit and cabin 3000 l/h each Rule electric bilge pump 7570 l/h
Two manual and one electric bilge pumps to ORC standards Rule electric shower drain pump Jabsco marine toilet Marelon seacocks and flush valves Fresh water fill on deck

Accommodation

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 natural oak floor boards, 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

Removable honeycomb cored natural oak floor boards

Hinged companionway steps

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

Double berth cabin port & starboard aft, hanging lockers, double portlights Galley to port by companionway, s/s sink, gimballing cooker, refrigerator

Navigation station to starboard of companionway