

M.A.T.

Namık Elal Caddesi 21Yelki
35310 İzmir Turkey
T : 90 232 236 79 90
F : 90 232 236 79 94
info@mat.com.tr
www.mat.com.tr

Specification

February 2010

M.A.T. 12

IRC 12.45 m racer cruiser

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 - ocean

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 |
| Disp | 6900 kg | 15180 lbs |
| Ballast | 3625 kg | 7975 lbs |

| | | |
|-----|---------|---------|
| I | 16.97 m | 55.7 ft |
| J | 4.82 m | 15.8 ft |
| P | 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 lt |
| Water tanks | 200 lt |
| Holding tank | 30 lt |

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 coloured isophthalic 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

Right to modification without prenotice reserved

M.A.T.

Namık Elal Caddesi 21Yelki

35310 İzmir Turkey

T : 90 232 **236 79 90**

F : 90 232 236 79 94

info@mat.com.tr

www.mat.com.tr

*Vacuum assisted resin infusion technology
Resin will fill every little gap that is under vacuum
The structure is free of voids
A 65/35 glass/resin content

Keel Frame

Special aluminium alloy keel/mast frame
Anodised and protective epoxy paint coated

Keel

950 kg sg iron fin with 2675 kg lead/antimony bulb = 3625 kg (approximate)
Recessed in the hull
Coated and faired with a layer glass/epoxy

Rudder and Steering

Composite rudder and custom carbon fibre stock
Jefa high performance self aligning top/lower rudder bearings
Provision for emergency tiller on rudder stock
Composite twin pedestals
Jefa twin 1000 mm leather covered light alloy wheels black

Deck

Primary winches: 2 x Harken Radial B50.2 STA self tailing 2 speed alloy winches
Halyard winches: 2 x Harken Radial B46.2 STA self tailing 2 speed alloy winches
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 winward sheeting traveller purchase system
Longitudinal jib tracks, ball bearing cars and blocks for 12:1 purchase system
Spinnaker sheet and deflector blocks
2:1 spi 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 padeyes
8 opening BSI Moonlight portlights
4 opening BSI Moonlight hatches
1 opening BSI Moonlight round foredeck hatch
Portlight interior trims in anodised 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 toerail to mast
Composite mast collar
Recessed companionway sliding hatch
Opening liferaft locker in cockpit floor
Locker for gas bottle
Plastimo 135 mm compass

Right to modification without prenotice reserved

M.A.T.

Namık Elal Caddesi 21Yelki

35310 İzmir Turkey

T : 90 232 **236 79 90**

F : 90 232 236 79 94

info@mat.com.tr

www.mat.com.tr

Mast and Rig

Alloy mast with 2 sets of 20 deg. swept spreaders

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

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

Carbon fibre 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

1 Cl I height jib halyard

1 wing spinnaker/jib halyard to spectacle at I height

2 masthead spinnaker halyard

1 pole lift 1 m below I

Lopoligh combined LED navigation lights/anchor light on mast

Engine

Yanmar 3YM30C 29 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 lt 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 propeller

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

Aquasignal halogen adjustable interior lights

Plumbing

160 lt flexible fresh water tank

Jabsco pressurised water system

Hand basin in head

Whale tap/pull out shower head at basin

Galley sink

Whale mixer tap

Two Jabsco manual bilge pumps, cockpit and cabin 3000 lt/hr each

Right to modification without prenotice reserved

M.A.T.

Namik Elal Caddesi 21Yelki

35310 İzmir Turkey

T : 90 232 **236 79 90**

F : 90 232 236 79 94

info@mat.com.tr

www.mat.com.tr

Rule electric bilge pump 7570 lt/hr

Two manual and one electric bilge pumps to ORC standarts

Rule electric shower drain pump

Jabsco marine toilet

Marelon seacocks and flush valves

Fresh water fill on deck

Accomodation

All bulkheads and other interior components in pvc foam cored grp composite

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

Honeycomb cored satin varnished khaya floor boards, cabin doors, cabinet doors

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

Custom alloy handrails

Southco satin polished door handles

High density foam cushions, sunbrella upholstery

Removable honeycomb cored khaya 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, gimbaling cooker, refrigerator compartement

Navigation station to starboard of companionway