

KING 40 PRODUCTION SPECIFICATIONS

MAY 2008

PRINCIPLE DIMENSIONS – PRODUCTION

LENGTH OVERALL	12.11 M	39.72 FT
WATERLINE LENGTH	10.60 M	34.76 FT
BEAM	3.70 M	12.13 FT
DRAFT	2.51 M	8.23 FT
DISPLACEMENT	7,100 KG	15,655 LB
WET SURFACE AREA	29.2 SM	315 SF
RIGHTING MOMENT	190 KG/M	1,374 FT/LBS
FORETRIANGLE	16.0 M	52.48 FT
FORETRIANGLE BASE	4.7 M	15.41 FT
MAINSAIL HOIST	16.0 M	52.48 FT
MAINSAIL FOOT	5.5 M	18.04 FT
ESTIMATED IRC RATING:	1.120 (APPROXIMATE)	
IRC CREW NUMBER:	10	

KING 40 STANDARD SPECIFICATIONS

Hull & Deck

- Vinylester vacuum consolidated composite sandwich hull and deck construction.
- Foam core laminate with biaxial and uni-directional E-glass fabrics with high density core blocking of glass-filled urethane.
- Full compliance with European RCD (CE), including ISO 12217-2 Category A certification.
- 850kg SG Iron (80-55-06) keel fin with 2400kg antimony/lead bulb (approximate).
- Gelcoat hull and deck finish.
- Bonded hull to deck joint with molded toe rail to ORC requirements.
- Structural bulkheads bonded to hull and deck.
- Composite structural IGU forms base for interior structure, engine bed, etc.
- Fabricated Anodized Aluminium Keel structural frame and mast step.
- Recessed hatch garage. Life raft locker in cockpit
- Molded propane locker, vented into cockpit.

Propulsion & Steering

- Yanmar 3JH4E x SD50 39 hp 3 cylinder, diesel engine with sail drive, fresh water cooling, fuel filter & 80 amp alternator.
- Molded composite engine surround with 25mm engine insulation.
- Yanmar Type C recessed engine instrument panel on companionway ladder.
- Morse-type manual gearshift and throttle.
- 127 litre fuel tank (31 gallon) with inspection with remote gauge.
- 420 x 340 (approximate) folding prop.
- Balanced spade rudder with custom carbon fiber stock and roller bearings.
- Twin alloy race wheels, 950 mm diameter mounted on custom composite pedestals.

Plumbing

- Icebox drain with sink mounted pump for draining.
- 200 litre total water capacity in two separately valved tanks.
- Marine head: 20 litre holding tank with Y-valve and overboard discharge.
- Hot & cold pressure water system.
- Water heater 20 litre tank heated from engine and/or (optional 110vac)
- Head shower with Y-valve for bilge / shower pump.
- 2 Manual bilge pumps: 1 in cockpit and 1 below decks.

Deck Hardware

- Two Harken* 48.2 2 speed primary winches
- Two Harken* 44.2 ST 2 speed mainsheet winches.
- Two Harken* 44.2 ST 2 speed secondary winches
 - 1- double lock-in 10" winch handle / 3 single lock-in 10" handles.
- Harken deck hardware as shown on deck plan.
- Underdeck mainsheet lead aft p&s.
 - Jib lead adjusters lead under the deck to jib trimmer
 - Traveller lead forward under deck to main trimmer
- Spinlock Rope Clutches and stoppers.
- Custom stainless steel double rail open bow pulpit and stern rail.
- Custom stainless steel tapered lifeline stanchions, aft 2 pairs with support legs.
- Three flush mount mooring cleats.
- Round foredeck hatch, Lewmar size 22 or equal.
- Two Lewmar Size 20 articulated tinted acrylic hatches or equal.
- Two Lewmar Size 3 opening ports or equal.

Spars & Rigging

- Carbon Mast by King Composites – 2 pairs swept aluminium spreaders / no runners
- Aluminium boom with welded end fittings, 12:1 internal outhaul, and mainsail reef clutches and sheaves, mainsheet bail and mechanical Vang lug.
- Discontinuous s/s rod rigging
Harken Carbo foil on headstay
- Double masthead spinnaker halyard sheave.
- Double genoa halyard exit sheaves at hounds.
- Two 10mm vectran 100 genoa halyards Tylaska T-8 Shackles
- Two 10mm vectran spinnaker halyards Tylaska T-8 Shackles.
- Main halyard, 8mm vectran 100, 2:1 with Tylaska H-8 shackle.
- Mainsheet – 10 mm spectra.
- Traveller control lines Dacron braid.
- Custom carbon-fiber spinnaker pole & gear by King Composites
- Two 8mm DSK 75 spinnaker sheets / two Spec Set II after guys Tylaska T-8 shackles
- Two Endurabraid genoa sheets with Equiplite connectors.
- Ronstan Magic Wheel backstay adjuster
- Solid Mechanical Vang.
- Custom SS chainplates and internal backstay Ronstan “magic wheel”
Two jib inhauls
- Two mainsail clew reef lines.

Electrical

- Two Group 31 deep cycle batteries.

- Digital Battery condition meter.
- Custom DC electrical panels w/ 16 circuit breakers.
- Navigation & steaming lights.
- Six Halogen reading lights
- Four dome lights.
- Chart Light.
- Six recessed indirect lighting.

Galley

- Polished stainless sink recessed in counter top with fiddles.
- Two burner gimbaled propane stove with oven.
- Propane gas bottle in cockpit locker connected through solenoid shutoff switch.
- Pressure water pump.
- Swivel faucet pressure water.
- Large hinged top opening icebox.
- Dry goods storage bins.
- Storage locker under stove.
- Three drawers, pot storage and locker.
- Rubbish bin.

Interior

- Doorway forward into the forward stateroom, with an enclosed head to starboard, and a large bureau and hanging locker to port. The large double V-berth has sail storage underneath forward and duffel storage aft. Large fore hatch.
- Enclosed head with mirrors, storage outboard, dual purpose shower/sink spigot, and door. Head Compartment is a composite molding with integral shower sump for easy cleaning and draining, with overhead hatch.
- Finish is off-white with wood trim on vertical surfaces and bulkheads; lightweight bunk tops with white finish; wood drawer and cabinet trim.

Galley & Nav station countertops are clear coat carbon fiber

- Vinyl covered overhead and hull sides in forward and aft cabins.
- Molded composite overhead in main cabin.
- Choice of designer cushion fabrics
- Main cabin settee berths with split backrest cushions port and starboard. Seatback hinges up to form pilot berth.
- Lightweight composite drop-leaf table with wood trim fitting over stainless steel support rail for easy removal.
- Large, sit-down, forward facing 1.0 x .6m (39" x 24") nav. table with chart storage, overhead instrument panel and outboard bookshelf.
- Double quarter berth to port, single quarter berth to starboard.