

RAPIDO 50

General Specifications

Rapido 50 Trimaran



Designed and Engineered by:



RAPIDO 50

Principal Characteristics

LOA	15.24m
LWL	14.96m
BOA	10.38m
BOA (folded)	5.50m
BOA (float to float CL)	9.32m
Freeboard	1.60m
T board – up	0.67m
T board - down	3.52m
Displacement (light)	6.55t
Displacement (max)	8.40t
SA Main	108m ²
SA Solent	57.5m ²
SA Staysail	20.5m ²
SA Reacher	166m ²
SA Asym. Spin.	230m ²
Mast Height above DWL	24.98m

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Design & Construction

- a) Hull, deck, cabin-top hybrid composite of: carbon fiber inner skin and outer skin, epoxy resin and Divinycell foam-sandwich construction.
- b) Hull, deck, cabin-top, beams, daggerboard and rudder parts molded from composite female tooling to reduce fairing and save weight.
- c) Composite parts infused to control resin content, fiber ratio and improve strength-to-weight ratio.
- d) Thermo-formed core from 3D templates.
- e) Beams, daggerboard, rudder blade & elevator, chainplate and main bulkheads: pre-preg carbon, cured in an autoclave.
- f) Carbon longitudinal stringers.
- g) Carbon structural bulkheads, chainplates, beam bulkheads, etc.
- h) Carbon reinforcement in high load areas: daggerboard case, windows, around hatches, etc.
- i) Carbon salon/cockpit door frames.
- j) Interior furniture constructed from high-strength, lightweight, composite panels.
- k) 4 bar linkage, folding beam arrangement with carbon struts, 17-4 stainless pins and hardware.
- l) Dyneema reinforced trampoline.
- m) Forward beam leading edge aero fairing.
- n) All bulkheads watertight or no penetrations below waterline.
- o) Folding prop, fixed shaft, diesel propulsion.

Finish

- a) Exterior finish is white Aquaguard gelcoat.
- b) Non-skid decks, beams, transom, and cockpit with choice of color.
- c) Hull bottom finished with epoxy primer.
- d) Interior living area painted to Rapido Trimarans Luxury Yachts finish.

Rigging and Sails

Mast and Boom:

- a) Standard Alloy Mast and boom **OR**
- b) Optional High modulus carbon, rotating mast, carbon boom, carbon diamonds.

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Running Rigging:

- a) Mainsail, solent, reacher, and staysail halyards and sheets.
- b) Spinnaker halyard.
- c) Topping lift/spare main halyard.
- d) Lazy cradle jacks/ optional carbon Dyneema truss wing.
- e) Mainsail traveler lines.
- f) Reef lines.
- g) Outhaul and Cunningham lines.
- h) Daggerboard control lines.

Sails: SEE SEPARATE OPTIONS LIST

Decks & Hulls

Hatches and Portlights

- a) 2 x Gioit escape hatches.
- b) 10 x Lewmar Atlantic Series opening portlights.
- c) 1 x Lewmar 70 Flush 3G deck hatch in forward cabin.
- d) 2 x Lewmar 70 Flush 3G cabin-top hatches.
- e) 2 x Lewmar 50 opening hatches in salon facing forward.
- f) 1 x Lewmar 70 Flush 3G opening hatch in aft cabin.
- g) 8 x Rapido flush deck fiberglass hatches.

Safety

- a) Padeyes for safety harness connections.
- b) Lifelines.
- c) Round 316 SS bow pulpit, aft seats and stanchions.
- d) Survival area with entrance/escape hatch.
- e) Auto fire extinguisher in the engine compartment.
- f) Watertight or no penetration below waterline bulkheads.

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Deck Hardware

- a) Harken mainsheet and traveler systems.
- b) Harken self-tacking solent track system.
- c) Harken headsail systems.
- d) 2 x Karver KJ 25 jammers.
- e) Harken mast rotation, Cunningham, and outhaul controls.
- f) Daggerboard lifting system.
- g) Spinlock clutches and jammers.

Winches

- a) 2 x Electric Harken 60 primary winches.
- b) 2 x Electric Harken 50 cabin-top winches.
- c) 2 x Harken 50 mast winch.
- d) 1 x Harken 46 foredeck winch.

Furlers

- a) 3 x Facor furlers.

Mooring/Anchoring

- a) Lewmar anchor windlass with remote control.
- b) Anchor bridle.
- c) 4x 250mm Antal folding deck cleats/padeyes.
- d) Anchor/windlass locker forward mast base and locker for secondary anchor in foredeck.

Electrical

- e) 24 volt Lithium ion battery bank/ 2x180 amp.
- f) Mastervolt Combi Ultra Inverter.
- g) 36 Breaker DC circuit breaker panel.
- h) BEP AC panel 4x Circuit Breakers plus RCD.
- i) 110amp 24v MasterVolt alternator (house batteries).
- j) 80amp 12v alternator.
- k) LED lighting, down lights, courtesy and strip lights.
- l) 5 x fans.
- m) 240v AC outlets and 24v DC outlets.
- n) Shore power connection, 240 volt.

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Navigation Lights

- a) LED bow and stern navigation lights.
- b) LED anchor, steaming, deck lights.

Engine & Propulsion

- a) Yanmar diesel, 3JH5E, 38.5hp, shaft drive.
- b) Folding 3 blade prop, Flex-O-Fold.
- c) 80amp alternator (starting batteries).
- d) Digital B instrument panel.
- e) Engine room insulation.
- f) PSS dripless seal on prop shaft.
- g) Ultraflex engine controls.
- h) Fuel filters.
- i) Fuel tank, 300 liters.
- j) Silencer, waterlock.
- k) Auto engine room fire extinguisher.

Outdoor Fitout

Cockpit, transom, decks, and floats

- a) Hard top Bimini with sliding front screen.
- b) 1.2m wide helm seat/leaning post.
- c) Salon cockpit windows removable stored into cockpit wall.
- d) 2 x storage lockers under large cockpit seats with dedicated wet weather and separate shoe storage.
- e) Swim platform/ladder on transom.
- f) Hot and cold shower on transom.
- g) Storage/survival area under cockpit sole with escape hatch.
- h) Storage areas in floats with Rapido custom, watertight, XL hatches to accommodate paddle boards/bikes.
- i) Four separate watertight compartments per float.
- j) Padeyes for mooring lines and fenders.
- k) Sundeck forward of mast base.
- l) Dyneema knotless outer trampoline, reinforced composite membrane inner trampoline.

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Interior Fitout

- a) All interior components lightweight cored panels.
- b) Cabinets: teak veneers/ solids and, where painted, satin finish.
- c) Lightweight composite doors.
- d) Sink.
- e) Head soles.
- f) Carbon countertop.
- g) Storage area cabinet.
- h) Grohe faucet and shower set.
- i) Polycarbonate mirror.
- j) Shower area with composite painted finish.
- k) Electric shower drain pump.
- l) Manual toilets.
- m) 2 x Lewmar opening portlights.

Aft Cabin

- a) Lightweight composite doors.
- b) Hanging locker.
- c) Double bunk (Queen size).
- d) Mattress ventilation.
- e) Under bunk storage.
- f) 2 x Lewmar opening portlights.
- g) 1 x Lewmar 70 Flush 3G opening hatch in transom.

Forward Cabin

- a) Lightweight composite door.
- b) Hanging locker.
- c) Double bunk (Queen Size).
- d) Mattress ventilation.
- e) Under bunk storage.
- f) 1 large deck hatch.
- g) 4 x Lewmar port lights.

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Galley

- a) Shelves, cabinets, drawers with Blum hardware soft close and latches.
- b) LG Hi Macs/Corian countertop.
- c) 180 liter Virifrigo two-drawer fridge.
- d) Large Hafele SS sink.
- e) Wallas two burners, diesel stovetop and oven.
- f) Hot and cold pressurized freshwater.

Plumbing (Freshwater)

- a) 1 x quick 25 liter water heater.
- b) 1 x 300 liter water tank.
- c) 1 x water pressure system pump.

Waste Water

- a) 2 x holding tanks, 60 liters each.

Bilge Pumps

- a) 4 x electric automatic bilge pumps.
- b) 1 x manual bilge pump, 20 US gal-75liter/min.
- c) All sea cocks composite.

Steering and Rudderblade

Single wheel, Jefa custom steering system to include:

- a) Torsion bar and universal joint complete with autopilot drive on carbon spade rudderblade and elevator manufactured from CNC-milled tooling, blade cured at elevated temperature and pressure in auto-clave.
- b) Spare spade rudderblade for shallow waters.
- c) Custom kick up rudder box with upper and lower bearings.

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Daggerboard

- a) High aspect ratio, swept and tapered daggerboard for good efficiency / performance.
- b) Carbon daggerboard manufactured from CNC-milled tooling, then cured at elevated temperature and pressure in autoclave.
- c) Daggerboard case structure reinforced at cabin-top, salon sole and forward / aft frames below sole, hull exit.
- d) Mast compression supported by daggerboard case and cabin top via cabin-top plinth.



For further information

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