

RAPIDO 50

General Specifications

Rapido 50



Designed and Engineered by:



The Rapido 50 is a production trimaran, however variations can be offered within the bounds of structural constraints.

Cost of semi-customization to be determined.

RAPIDO 50

Principal Characteristics

LOA	15.24m	50 ft
LWL	15.2m	49.9 ft
BOA	10.24m	33.6 ft
BOA (folded)	5.80m	19.0 ft
BOA (float to float CL)	9.29m	30.5 ft
Average light displacement (subject to options)	8,550kgs	18,850 lbs
Daggerboard – up	0.67m	2.2 ft
Daggerboard - down	3.52m	11.5 ft
Main	97m ²	1,044 sqf
Jib J3	57.5m ²	619 sqf
Staysail J4	27.9m ²	300 sqf
Reacher	150m ²	1,615 sqf
Asym. Spin.	230m ²	2,476 sqf
Mast Height above water	24.98m	82 ft

RAPIDO 50

Design & Construction

- a) Hulls, deck, cabin-top: carbon fiber inner skin and outer skin, vinyl ester 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, 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 such as daggerboard case, windows, around hatches, etc.
- i) Carbon salon/cockpit door frames.
- j) Interior furniture constructed from high-strength, lightweight, composite panels.
- k) Folding beam arrangement with carbon struts (with extra canting option so float hulls sit in their normal position).
- l) Custom Dyneema reinforced trampoline.
- m) Forward beam leading edge aero fairing.
- n) All bulkheads watertight or no penetrations below waterline.
- o) CE A certification.

Finish

- a) Exterior finish is white gelcoat.
- b) Non-skid decks, cabin top, beams, transom and with cork floor in the cockpit.
- c) Hull bottom finished with epoxy primer.
- d) Interior living area painted to Rapido Trimarans Luxury Yachts finish.

RAPIDO 50

RIGGING AND SAILS

Mast and Boom and Standing Rigging:

- a) Carbon spreader-less rotating wing mast and carbon boom with Dyneema truss-wing.
- b) Aramid shrouds and torsional forestay with integrated Karver structural furler.

Running Rigging:

- a) Mainsail, jib, reacher, spinnaker and staysail halyards.
- b) Sheets and blocks for main and jib.
- c) Topping lift/spare main halyard.
- d) Lazy cradle jacks.
- e) Harken electric traveler.
- f) Reef lines and Karver jammers.
- g) Outhaul, cunningham, daggerboard and mast rotation control lines.

Sails: SEE SEPARATE OPTIONS LIST

RAPIDO 50

DECKS & HULLS

Hatches and portlights

- a) 2 x escape hatches.
- b) 10 x Lewmar Atlantic Series opening portlights.
- c) 1 x Size 60 deck hatch in forward cabin.
- d) 2 x Size 50 cabin-top hatches.
- e) 2 x opening hatches in saloon facing forward.
- f) 1 x Size 60 deck hatch in aft cabin.
- g) 8 x Rapido flush deck fiberglass hatches.

Safety

- a) Padeyes for safety harness connections.
- b) Lifelines.
- c) Carbon bow sprit with integrated anchor rollers and carbon 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.

Deck Hardware

- a) Harken mainsheet and electric traveler systems.
- b) Harken self-tacking jib track system.
- c) Harken blocks.
- d) Karver and 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.

RAPIDO 50

Furlers

- a) Karver structural forestay.

Mooring, Anchoring

- a) Electric anchor windlass with remote control.
- b) Custom bow sprit with anchor roller.
- c) Anchor bridle.
- d) 4 x 350mm Antal folding deck cleats and custom titanium padeyes.
- e) Windlass locker and locker for secondary anchor in foredeck.

Electrical

- a) 24 volt Lithium ion battery bank/ 2x180 amp.
- b) Mass Combi Ultra 24/3500-100 (230V).
- c) Mastervolt 100 amp charger.
- d) BEP AC panel 4 x circuit breakers plus RCD.
- e) 110amp 24v Mastervolt alternator (house batteries).
- f) 80amp 12v alternator.
- g) LED lighting, down lights, courtesy and strip lights.
- h) Fans x 5.
- i) 240v AC outlets and 24v DC outlets.
- j) Shore power connection, 240 volt.
- k) USB combo B and C.

Navigation Lights

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

RAPIDO 50

Engine & Propulsion

- a) Yanmar diesel, 3JH40, 40hp, shaft drive (can be upgraded to 57hp).
- b) Folding 3 blade Gori prop.
- c) 80amp alternator (for the start battery).
- d) Digital B instrument panel.
- e) Engine room insulation.
- f) 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) Carbon hard top bimini with sliding windscreen.
- b) 1.2m wide helm seat/leaning post.
- c) 2 x storage lockers under large cockpit seats with dedicated wet weather gear hanging space.
- d) Swim ladder on transom.
- e) Hot and cold shower on transom.
- f) Storage/survival area under cockpit sole with escape hatch ((l) 1.7m x (w) 2.4m x (h) 1.0m | (l) 5' 7" x (w) 7' 10" x (h) 3'3")
- g) Storage areas in floats with Rapido custom watertight XL hatches to accommodate paddle boards/bikes ((l) 4.6m x (w) 1.1m x (h) 1.5m | (l) 13' 1" x (w) 3' 7" x (h) 4' 11")
- h) Four separate watertight compartments per float.
- i) Titanium padeyes for mooring lines and fenders.
- j) Sundeck forward of mast base.
- k) Custom Dyneema trampolines.

RAPIDO 50

Interior Fitout

- a) All interior components lightweight cored panels.
- b) Lightweight cabinets and composite doors.
- c) Carbon drawers
- d) Choice of veneers for facings.
- e) Stainless steel sinks.
- f) Whisperwall head soles.
- g) Carbon countertops.
- h) Faucet and shower sets.
- i) Mirrors.
- j) Shower areas with composite finish.
- k) Electric shower drain pump.
- l) Electric toilets.
- m) Cork flooring.
- n) High quality fabrics, removable covers.

SALOON

- a) Saloon cockpit windows; removable and with dedicated stowage.
- b) Two opening forward facing windows.
- c) Portlights.
- d) Roof hatches.
- e) Fans
- f) LED lighting
- g) Settee/ double bunk.
- h) Dining table.
- i) Double opening fold up entry doors.
- j) Nav Station

RAPIDO 50

Aft Cabin

- a) Lightweight composite door.
- b) Hanging locker.
- c) Double bunk (Queen size).
- d) 2 x opening portlights.
- e) 1 x size 60 opening hatch in transom.

Forward Cabin

- a) Lightweight composite door.
- b) Hanging and shelf lockers/ clothing lockers with soft close lids.
- c) Double bunk (queen size).
- d) Under bunk storage.
- e) 1 deck hatch.
- f) 4 x Lewmar opening port lights.
- g) Emergency escape hatch

Galley

- a) Shelves, cabinets, carbon drawers with hardware soft close and latches.
- b) Carbon countertop.
- c) 180 liter Vitrifrigo two-drawer fridge.
- d) Large stainless steel sink.
- e) Electric oven and dual induction hob.
- f) Hot and cold pressurized freshwater.

Plumbing (Freshwater)

- a) 1 x Quick 25 liters (US 6.6 gals.) water heater.
- b) 1 x 400 liters (US 105 gals.) water tank.
- c) Water pressure system pump.
- d) Transom shower.
- e) Freshwater/ salt water deck washer.

RAPIDO 50

Waste Water

- a) 2 x holding tanks, 60 liters (US 15.85 gal.) each.

Bilge Pumps

- a) 4 x electric automatic bilge pumps.
- b) 1 x manual bilge pump.
- c) Composite sea cocks.

Steering and Rudderblade

Single wheel Jefa custom steering system includes:

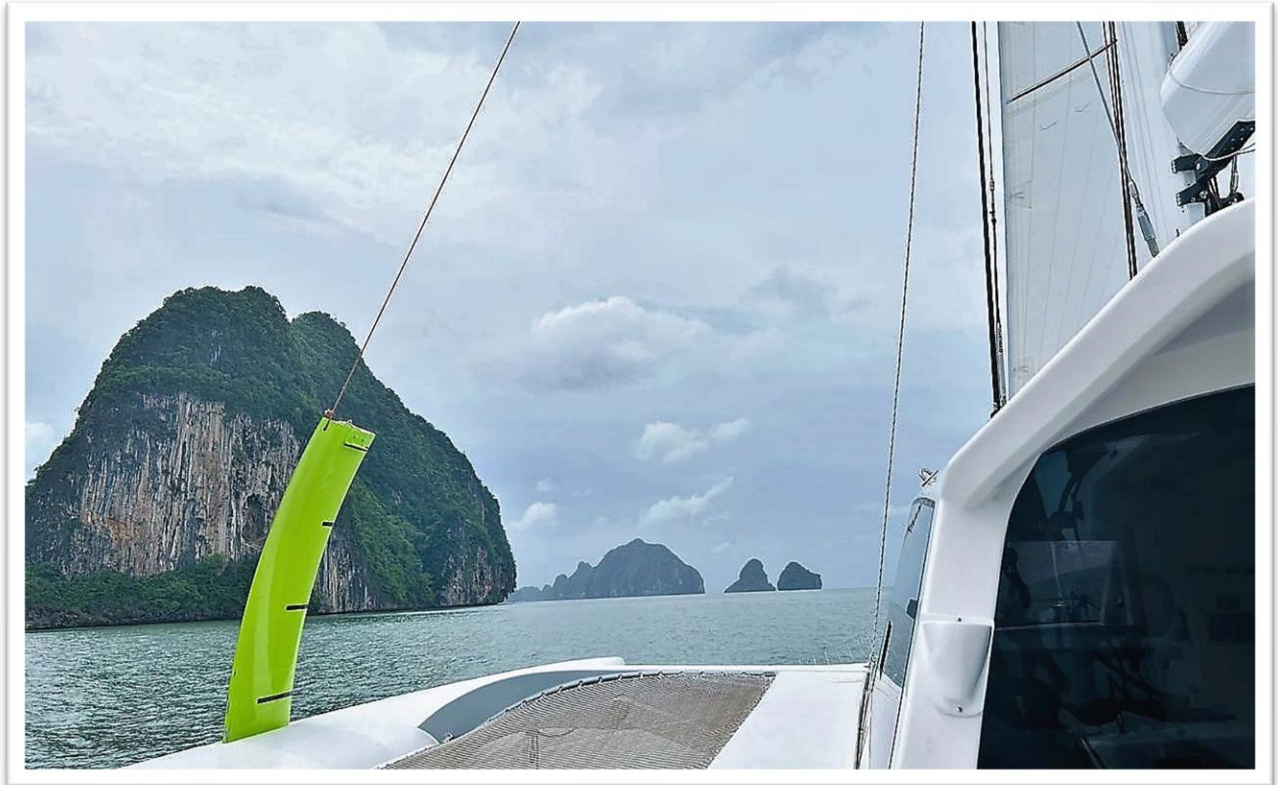
- a) Torsion bar and universal joint complete with autopilot drive.
- b) Carbon rudderblade with T foil manufactured from CNC-milled tooling, blade cured at elevated temperature and pressure in autoclave.
- c) Emergency rudder blade.
- d) Custom kick up rudder box and the blade can slide up for shallow water.

Daggerboard

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

RAPIDO 50

For further information



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