

Specification v2.5

FinnFlyer 36CR, FinnFlyer 36Club

Advanced Composite Construction Yachts

Designer: Karl-Johan Stråhlmann, Stråhlmann Yacht Design
Builder and boatyard: Finn Yachts Ltd , Pietarsaari, Finland.

Hull Length 11,00 m, Max.Beam 3,40 m,
Displacement FF36 Club 4,7 ton, FF36 CR 5,0 ton
Mainsail 45,5 m2, Jib 106% 33,6 m2, Spinnaker 105 m2
I 15.00 J 4.16 P 14.80 E 5.10

FF36 CR Standard Depth 2,05 m L-keel, Optional shallow keel 1,70 m,
FF36 Club Standard Depth 2,20 m T-keel,



36 CR



36 Club

CE-certification:

The FinnFlyer Yachts are built in accordance with the European CE-certification and meets the CE-Directive 94/25/CE Category A "Ocean" for recreational vessels.

Hull:

The hull is produced by vacuum infusion of Vinylester resin into the sandwich hull made up of biaxial and axial E-glass fabrics and divinycell core, further strengthened by biaxial Kevlar fabrics in end of keel. High strength keel beams made of unidirectional E-glass reinforced by Carbon fiber forming a framework absorbing the loads from the keel and mast. Chain plates, the rig is connected to two stainless steel plates through the deck that are bolted to the Carbon frame beam laminated to the hull. The laminate is solid around keel, rudder and through hull fittings. The sandwich consists of 20mm Divinycell 80kg/m². The hull sides are treated with epoxy primer and painted with white Awlgrip. (Optional: painted in color of customers choice). The bottom treatment consists of 3 layers of Epoxy and 3 layers of Antifouling. The windows in the hull are glued flush mounted to the hull. All through hull fittings are made of brass and flushed mounted to the hull. All surfaces inside of the hull are treated and painted with white epoxy paint.

The building process:

When the hull is still in the mould the structural Carbon frame beams are laminated to the hull. The boat is post cured in an oven at 60°C for 24 hours to achieve 100% curing. When the hull is still in the mold the sandwich composite bulkheads are glued and laminated to the hull. The sandwich composite interior is then installed. The deck is glued and bolted to the hull. The hull is treated with epoxy and painted. The remaining installations are made.

Deck:

White gelcoat (Optional: Awlgrip painted in color of customers choice.), outer skin DCPD, inner skin Vinylester, uncut Divinycell vacuum bagged to the outer skin, multiaxial reinforcements $\pm 45^\circ$ och $\pm 90^\circ$, sandwich construction with 10 and 15mm Divinycell. Reinforcements are laminated into areas of stress, winches, genua tracks, jammers and cleats, carbon fiber reinforcements under winches, Kevlar on fore deck. Antislip on deck, at areas on the rooftop and in the cockpit. Anchor locker in the front. Storage locker on starboard in cockpit and 2 optional portable storage lockers in the aft of the cockpit. Toelist in teak on foredeck, meeting EC and ORC requirements. Side windows on the cabin are flush glued. A low profile hatch is mounted above the galley, in the rooftop of the saloon and in the front cabin. Further 4 opening portlights are installed in the cockpit. An instrument console is placed on the rooftop (can also be deselected). A drained locker is located in the port side of the cockpit for a 2-3kg gas bottle (the gas bottle is not supplied).

Keel:

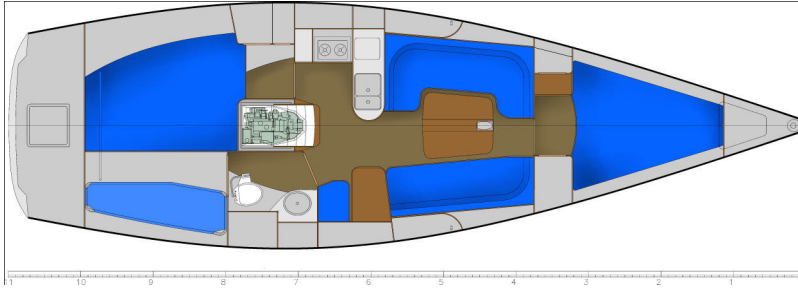
The keel bulb is made of lead. The keel fin is made of stainless steel, with large attachment area recessed to the hull and two rows of a total of 16 keel bolts. The keel has a very low center of gravity and optimum shape for lift and speed. Total keel weight is approx. 2050 kg for the 2,20m T-keel. Approx 2200 kg for the 2,05 m L-keel. The stainless steel keelspacer is hollow with an openable sealing such that additional keel weight can be added to the spacer later on if desired.

Rudder and steering:

The rudder is made of vacuum bagged multiaxial $\pm 45^\circ$ och $\pm 90^\circ$ Carbon fiber with Epoxy resin and Divinycell sandwich. The rudderstock is made of Carbon fiber and laminated to the rudder. Roller bearings and selfaligning bearings are fitted. The wheel steering consists of a chain and wire system connected to the quadrant that is fitted on the rudderstock. The recessed, white painted wheel is made of aluminium and is 150 cm in diameter and has a leather cover for improved grip. Optionally is offered a crashbar with space for a plotter in front of the wheel steering.

Interior:

Cupboards, doors, tables, floorboards, bulkheads, walls are also Advanced Composite Constructions, i.e. sandwich GRP laminates with Divinycell core and covered by vacuum bagged thin Teak or Oak veneer, for optimal strength at lowest weight, and comfort. An interior with divinycell core also provides best isolation from noise, warm and cold weather and keeps the condensation away.

**Front Cabin:**

The front cabin provides a large double berth for two persons with berth length over 2,1 m. The cushions are made of 12 cm superlon covered with upholstery Tara available in different colours. The freeboard linings are made in teak ribs or oak. There is a double wardrobe with hangers and shelves on stb and 2 wardrobes with shelves on port. The top of one of these wardrobes is a night table. Two long shelves are found on the freeboard sides. The ceiling consists of an innerliner with vinyl cover, color cream white. Integrated light in the ceiling and reading lights are installed. Opening hatch 500 x 500 mm with ventilation. Large storage space below the berths.

Aft Cabin:

Large double cabin with a large double berth length over 2,1m. The cushions are made of 12 cm superlon covered with upholstery Tara available in different colours. The freeboard linings are made in teak ribs or oak. There is a double wardrobe with hangers and shelves on port. A long shelf is found on the freeboard side. The ceiling consists of an innerliner with vinyl cover, color cream white. Integrated lights in the ceiling and reading lights are installed. Two opening portlights are installed. Integrated ventilation. Storage space below the berths.

Saloon:

The saloon consists of comfortable sofas on both sides of the saloon, an U-sofa on port side and a straight one on the starboard side. Both sofas can be converted to fullsize berths, 2,0 m plus by removing the back cushions. The cushions are made of 12 cm superlon covered with upholstery Tara available in different colours. The saloon table is foldable with space in the middle for bottles, the table finish is in finest teak or oak. Behind the starboard sofa is the navigation place. The hull sides in the saloon are covered by nicely finished teak or oak, surrounding the windows in the hull. Cupboards are installed on both side of the saloon laminated to the hull. The ceiling consists of a cream white vinyl covered glass fiber module. Lights are integrated into the ceiling. Led lights and light bulbs are used. Opening hatch in the ceiling, size 500x500 mm and a smaller opening hatch above the galley are installed. Ventilation in the ceiling hatch. Composite floorboards with nice wooden surface that matches the interior. Curtains in the saloon.

Navigation area:

The navigation table is installed so that the navigator is facing forward. The navigation area has plenty of space for navigation and communication equipment. Place for charts in the navigation table and equipment in the drawers. Here are the main switches for the electrical systems, with automatic fuses and switches, you find also the meters for fuel, water, waste and the voltmeter here and a navigation light.

Galley:

The galley is L-shaped and equipped with a group of drawers left to the semi gimbaled 2-burner S/S gas stove with oven. On the right side there is a top opening GRP icebox approx. 95l with 55mm isolation and place for optional Isotherm coolers, there are two sinks for washing dishes and taps for pressurized cold water. (Hot water is optional). Below the sinks is a cupboard with shelves, there is also a dedicated opening for the waste. The top fabric of the pantry is of Formica IKI laminate. The oven is protected by a S/S grab bar. On top of the galley, facing port is a cupboard with shelves. The galley has integrated lamps in the ceiling.

Head:

A cream white inner module forms the wash basin, space for drying clothes, cupboard, base for the water-flushed pump-toilet and walls. A cold water tap is installed. If the optional water heater is chosen a mixing shower tap with cold/warm water will be installed. The pump-toilet is made of porcelain. Holding tank is installed with outlets through the hull and deck. All the waste from the toilet is pumped into the holding tank. A dedicated wardrobe for wet oilskins in the head, with optional heater outlet closeby. A mirror and a toiletpaper holder is installed. An opening hatchway in the rear wall to the storage area on starboard side is installed, allowing entry to the storage area, and optional berth. The ceiling is covered with vinyl, lights are integrated into the ceiling. An opening portlight towards the cockpit and ventilation is installed as well as curtains.

Batteries:

Maintenance free and leakproof batteries: Engine 1x70 Ah, Service 2 x 70 Ah.

Navigation lights:

Starboard and port bow LED lights mounted in the pulpit, stern LED light in pushpit, steaming light in mast. Optional anchor light in masttop.

Different tanks in the boat:**All tanks are made of Stainless Steel.**

Watertank approx 200 l under starboard side berth in saloon.

Optional watertank approx 80 l under port side berth in saloon.

Fuel tank in aluminium approx 110 l under port side berth in saloon.

Holding tank approx 56 l placed behind toilet.

Optional Warmwaterboiler approx 20 l, placed behind engine.

Fresh water system:

The freshwater system consists of a freshwater tank with a pressurised system, with water mixers in the galley and in the head for hot (when the optional warm water boiler is ordered) and coldwater. A shower in the head and an electrical bilge pump is installed in the head when the optional warm water boiler is ordered. An optional shower can be fitted in the aft of the cockpit.

Bilge pumps:

An electrical bilge pump and manual bilge pump system is installed so that it disposes all water from the interior of the boat by the electrical bilge pump system when inside the boat and/or also with the manual bilge pump system that is located in the cockpit.

Through hull fittings:

All through hull fittings are made in brass and equipped with a manual shutting valve. All through hull fittings are flush mounted to the outersside of the hull.

Electrical system:

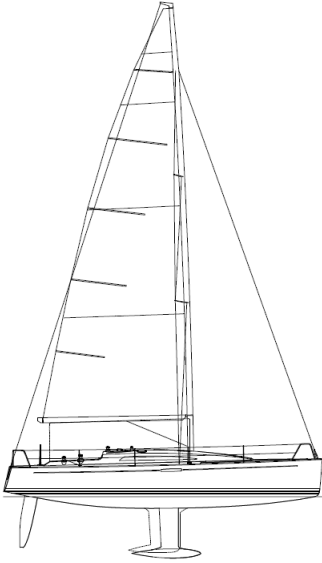
There are two main battery circuit switches, one for the engine battery and another for the service-batteries. The main switchboard with all automatic fuses are located in the navigation table area.

Navigational equipment:

A Nexus compass is mounted in the instrument consol on the roof top. Optional Nexus instruments can be installed on the instrument consol, at the navigation table and large instrument displays on the mast. Other optional navigation equipment like a plotter with crashbar in front of the wheel or at the navigation table, Radio and VHF and other communication equipment at the navigation table area, as well as TV/ DVD etc. Optional also extra waterproof loudspeakers in the cockpit etc.

Mast and rigging:

A through deck keel stepped double spreader aluminium anodised 19/20 fractional tapered mast comes with adjustable mastfoot. The standing rigging is a Rod discontinued rigging, with backstay in Dynema with a 48:1 block purchase system. The backstay controllines are lead to the trimmers position on each side of the cockpit. The main boom comes in aluminium equipped with a rodvang with gasdamper. The block purchase system of the vang is 1:32 and the control lines are lead to each side of the cockpit. The boom has 2 reefs and one outhaul. A Windex for the mast top is included. The running rigging consists of 1 main halyard and 1 genua halyard in Dynema. Spinnaker halyards and an extra genuahalyard/lift are optional equipment. The main sheeting system is of type "Admirals Cup" with the mainsheet running in channels in the deck to dedicated winches in the cockpit. All blocks, cars and tracks are roller bearing ones from Harken. Harken ESP are used on places with high tensions.



Optional head sail system:

Harken Mark IV UD Unit 1 furling system with a double grooved foil in aluminium for Racing/Cruising. The furling drum is recessed under deck with the furling line lead in a channel to the cockpit. Other options include Harken Carbo Racing Foil system.

Deckequipment:

The railsystem consists of 8 S/S stanchions with double S/S wires, an open S/S pulpit in the fore with two S/S pushpits in the stern. 2 S/S mooring cleats in the fore and one on each side in the stern. Optional mid mooringcleats. 2 Harken B40.2STA winches for halyard on the rooftop. 6 Spinlock XTS Clutches for Main and Genua halyard, Outhaul, Reef 1 and 2, Cunningham (3 additional Spinlock XTS Cluthes if optional 2 Spinnaker halyards and 2nd Genua halyard are ordered) 2 Harken Cam Swivel cleats for Vang. 4 Harken ESP Organizers. Additional 3 Harken Cam Swivel cleats will be installed if optional Spinnaker downhaul and optional Inhauler system is ordered (Optional Inhauler block system with purchase 1:8 for genua/jib sheeting in roof tunnel). On top of roof an integrated instrument console for 4 optional instrument displays (Compass installed in the middle). The console can be deselected if optional mast displays are chosen. Harken genuatracks with ballbearing cars and a purchase system of 4:1 lead to the cockpit Harken cam cleats. 2 S/S grabrails on each side of the Cabin roof. An optional Sprayhood in S/S is mounted on the rooftop, easily removable when racing.

Cockpit:

2 Harken B46.2STA winches for genuasheeting and 2 Harken B40.2STA winches for the "Admirals Cup" mainsheet system. 2 Harken 25cm winchhandles and 1 Harken 20cm winchhandle.

Harken Maintrack system mounted on cockpit floor with Harken Ballbearing Car and a trimline system with a purchase of 4:1 lead to Harken Cam Cleats on each side of the cockpit. 2 S/S grabrails outside the entry to the cabin. Vacuum glued teak on top of the seats in the cockpit. The back of the teakseats are angled to host optional instruments of choice. The cockpit is selfdraining. White antislip on the cockpit floor if not optional teak is ordered. Foot supports on cockpit floor for the helmsman. Recessed telescopic bathladder in the stern. Sliding hatch garage for the entrance to the cabin. 4 padeyes in the cockpit for safety harnesses.

Storage lockers:

On the starboard side of the cockpit, opening from the cockpit is a large storage locker. The storage area is also accessible through the opening hatchway in the head. The storage area is so large that it also contains a full length sea bunk that can be used when the storage locker is not filled with other stuff, or when offshore racing. The storage locker has a lamp installed and also an opening portlight for light. Two optional removable storage lockers with teak seats on top are placed integrated in the stern of the cockpit.

Engine:

Volvo Penta D1-30 diesel engine with freshwater cooling, Saildrive and 2-bladed folding propeller. A 3-bladed folding as well as a 2-bladed racing propeller are optional choices. Alternator 14V / 115A. Batteryseparator in the electrical system. Fuelfilter with waterseparator. Filter for the seawater coolingssystem. Vacuumvalve. The engine is installed with the Saildrive mounted in front of the engine, for best weight distribution. Access to the engine by lifting the entry stairs to the cabin, and also from an opening hatch in the back of the engine room. The engine room is isolated for noise and ventilated through the stern. The Engine control lever is placed on starboard side in the cockpit with a small recess, here is also the RPM meter and the acoustic alarm for oil pressure and cooling water temperature .

Gas system:

On the port side in the cockpit is an integrated drained locker for the gas bottle. The shutting valve is located in the galley.

Optional Heater:

A diesel heater with hot air outlets in each cabin and the head comes as an option.

Other standard equipment included:

6 Fenders, a 10kg "Bruce"-type anchor, 40m anchorline. 4 Mooring ropes. Lifesling. A pole for the flag in stern. 2 2kg dry powder fire extinguishers, a boathook.
Yacht manual in English, and the suppliers manuals for extras.
FinnFlyer main sail boom cover.

Optional deck gear and equipment Packages:**Cruising Pack :**

Sprayhood S/S on roof top
2 removable extra storage lockers in the stern of the boat
Harken Mark IV UD furling system recessed into the deck.
Isotherm ASU cooling unit installed in icebox
Isotherm Warmwaterboiler with shower in the head and in the cockpit
Webasto diesel heating system with outlets in all cabins and head
230V shorepower with 25A charger

Racing Pack 1:

An inhauler purchase 8:1 block system with dynema lines integrated in the rooftop.
Blocks, S/S rings and 1 Harken Swivel Cam Cleat
2 Harken 44mm Crossover blocks for halyard crossovers between winches on rooftop

Racing Pack 2:**Spinnaker equipment**

2 spinnaker halyards 10mm in Dynema
Second genua halyard/and-or lift 10mm in Dynema
Double sided spinnaker downhaul lead in tunnels on the rooftop to the cockpit
2 Spinnaker sheets 10mm in Dynema
2 Spinnaker guy lines 10mm in Dynema
2 Barberhaulers for Spinnakersheets incl blocks
2 57mm footblock/lockoff for spinnakersheets
2 57mm Black Magic blocks for spinnakersheets
3 57mm ESP blocks at mast basin
3 Spinlock XTS Clutches for above halyards
2 Harken Swivel cam cleats
7 foldable padeyes
2 Cam Cleats in cockpit for parking of leach side spin guy not in use.
2,5m long spinnakerboom track on mast
Blocks and spinnakerboom car with ring and lift system on mast
Spinnakerboom in Carbon

Instrument Pack NX2:

2 Nexus NX2 Multi Control displays on Rooftop Console
1 Nexus NX2 Analog Wind display on Rooftop Console
1 Nexus NX2 Steer Pilot on Rooftop Console
1 Nexus NX2 Multi Control displays at Nav station
NX2 Carbon Windtransducer Race, HPC compass transducer, Logtransducer, Depthtransducer
NX2 Server, FDX NX2 Sail Performance software.
1 Nexus VHF NX2000 with DSC at nav table and masttop antenna.

Instrument Pack NX2 Mast:

3 NX2 Multi XL Displays
Carbon Mast Bracket with room for 4 displays

Instrument Pack NXR:

2 Nexus NXR Multi Control displays on Rooftop Console
1 Nexus NXR Multi Control displays at Nav station
3 Nexus NXR XLR displays on Carbon Mast Bracket
NX2 Carbon Windtransducer Race, HPC compass transducer, Sonic Speedtransducer,
Depthtransducer, GPS Antenna
NX2 Server, FDX NX2 Sail Performance software.
1 Nexus VHF NX2000 with DSC at nav table and masttop antenna.

Carbon Rig Pack:

1 Nordic Carbon Mast NMC 190 TR 190x 104 mm, White painted.
1 Nordic Carbon Boom NMB 175 White painted for loose foot main sail.
1 Nordic Vang
Standing rigging in Rod, BSI turnbuckles etc. Running rigging in Dynema.

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FinnFlyer Sales is the sales and marketing department of Finn Yachts Ltd.