

Technical specifications

# 85 CS

building dreams together



42CS 45CS 50CS 57CS 62CS 67CS 72CS 85CS 52MC

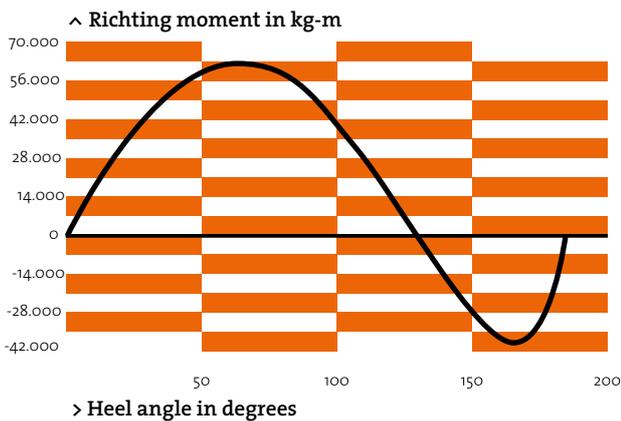
# 1

## Main dimensions

### Specifications

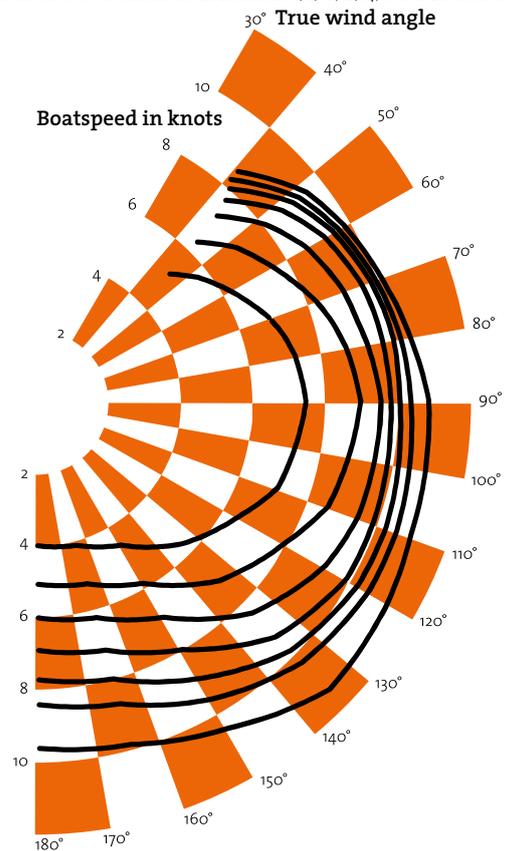
|                                   |          |                |
|-----------------------------------|----------|----------------|
| Length overall                    | 25.82m   | 84.71ft        |
| Length overall including bowsprit | 26.78m   | 87.86ft        |
| Length waterline                  | 23.17m   | 76.02ft        |
| Maximum beam                      | 6.40m    | 21ft           |
| Draft standard keel               | 3.79m    | 12.43ft        |
| Draft shallow keel (optional)     | 3.28m    | 10.76ft        |
| Ballast standard keel             | 18,500kg | 40,785lb       |
| Ballast shallow keel              | 12,000kg | 26,455lb       |
| Fuel tank                         | 2,500lt  | 549.92imp. gal |
| Water tank                        | 1,500lt  | 329.95imp. gal |
| Engine, Volvo Penta               | 194kW    | 264hp          |

### Stability curve



### Polar performance diagram

Curves from in- to outside are calculated at 6, 8, 10, 12, 14, 16 and 20 knots true windspeed.



### 2.1 General

Hull and deck are made of high quality materials. Several interior arrangements are possible within the structural bulkheads and keel grid. Two separate watertight bulkheads are foreseen in every interior arrangement.

### 2.2 Hull

- ▶ Hull in sandwich, vacuum infused composite with the Conyplex vacuum infusion system®.
- ▶ Laminate consisting of quadraxial and biaxial E-glass for inner and outer skins, infused with vinylester resin.
- ▶ Local unidirectional E-glass reinforcements.
- ▶ Solid laminate in structural areas like the keel area.
- ▶ First layer after gelcoat is a special barrier coat.
- ▶ Structural bulkheads fully bonded to hull and deck.
- ▶ Two year warranty.
- ▶ Hull: gelcoat white.
- ▶ Stripe and waterlines: colour owner's choice.
- ▶ Name and homeport on stern.
- ▶ Antifouling: two layers.

### 2.3 Deck

- ▶ Deck in sandwich, vacuum infused composite with the Conyplex vacuum infusion system®.
- ▶ Deck: gelcoat white.
- ▶ Laminate consisting of quadraxial and biaxial E-glass for inner and outer skins.
- ▶ Local unidirectional E-glass reinforcements.
- ▶ Solid laminate in structural areas where deck equipment is fitted.
- ▶ Deck lockers and anchor locker in composite with gelcoat finish and aluminium teak covered deck hatches.
- ▶ Hand laid teak deck, toe rail, cockpit seats, cockpit floor and teak detailing around the cockpit.

### 2.4 Construction

- ▶ Vacuum infused composite structural bulkheads in sandwich, using the Conyplex vacuum infusion system®.
- ▶ Vacuum infused composite longitudinals in sandwich, using the Conyplex vacuum infusion system®.

### 2.5 Keel

- ▶ Performance keel with bulb.
- ▶ Keel bolted through solid laminate using stainless steel bolts.
- ▶ Keel floors in sandwich, vacuum infused composite with the Conyplex vacuum infusion system®.

### 2.6 Rudder

- ▶ Fibre orientated rudder laminate, vacuum infused composite with the Conyplex vacuum infusion system®.
- ▶ Stainless steel rudderpost.
- ▶ JEFA rudder bearings.
- ▶ JEFA steering system rack and pinion.

### 3.1 Cockpit

- ▶ Two helmsman positions.
- ▶ Large separated guest cockpit, suitable for twelve people sitting.
- ▶ Fixed varnished cockpit table with stainless steel 316 support for table and canvas cover for UV protection.
- ▶ Winches and sheets situated within reach of helmsman's position.
- ▶ Free walkway from aft deck to guest cockpit.
- ▶ Pad eyes for safety harnesses mounted in cockpit.

### 3.2 Hatches and windows

- ▶ Six flush hull windows.
- ▶ Chemical hardened, laminated panoramic windows in saloon.
- ▶ Opening flush skylight hatches.
- ▶ Opening skylight hatches in coach roof.
- ▶ Opening port lights in cockpit.
- ▶ Flush teak covered composite deck hatches.

### 3.3 Deck hardware and equipment

- ▶ Stainless steel 316 stem head fitting.
- ▶ Stainless steel 316 guardrails 75cm high with three wires.
- ▶ Stainless steel 316 bathing ladder.
- ▶ Stainless steel 316 fillers.
- ▶ Stainless steel 316 handrails on cabin roof.
- ▶ Stainless steel 316 anti-chafe rails below mooring cleats.
- ▶ Stainless steel 316 gateway stanchions amidships.
- ▶ Stainless steel 316 mooring cleats; two cleats with two fairleads forward, four cleats amidships, two cleats aft and two fairleads on stern.
- ▶ Seats with stainless support on push pit.
- ▶ Sprayhood with stainless steel frame.
- ▶ Flagpole with stainless steel 316 support.
- ▶ Aluminium emergency tiller.
- ▶ Self-draining gas bottle locker in deck. Including one bottle with gas regulator valve. Extra space for second bottle in locker.
- ▶ Boat hook in aluminium stowed on lower shroud.
- ▶ Shower hot/cold at aft ship.
- ▶ Eight fenders with socks and ropes.
- ▶ Two 25m 18mm mooring warps.
- ▶ Four 25m 22mm mooring warps.

### 3.4 Sailing hardware

- ▶ Deck fittings.
- ▶ Central self-tailing mainsail winch.
- ▶ Two genoa winches hydraulic.
- ▶ Two self-tailing multipurpose winches in cockpit.
- ▶ Two self-tailing halyard winches next to mast.
- ▶ Winch handles.

### 3.5 Anchor system

- ▶ Integrated anchor launching system in bow.
- ▶ Hydraulic anchor winch.
- ▶ 63kg Delta anchor with 120m galvanised 13mm anchor chain.
- ▶ Anchor chain marked each 10m.

### 3.6 Steering system

- ▶ Twin composite steering pedestals with carbon steering wheels.
- ▶ Compasses on both steering pedestals.

### 3.7 Hydraulics

- ▶ Hydraulic backstay tensioner.
- ▶ Hydraulic boom vang.
- ▶ Combined control panel in cockpit for boom vang and backstay.
- ▶ Hydraulic pump on PTO generator.
- ▶ Hydraulically folding bathing platform with access to garage.

# 4

## Mast, rigging & sails

### 4.1 Mast

- ▶ Custom made mast, keel stepped, sloop rigged, painted white.
- ▶ Swept back spreaders.
- ▶ Slab reefing system.
- ▶ LED navigation lights.
- ▶ Masthead light 360° red, 360° green and anchor light.
- ▶ Strobe functionality on anchor light.
- ▶ Deck light.
- ▶ Spreader lights 2x down.
- ▶ Boom light.
- ▶ Windex in mast top.
- ▶ Foghorn air.

### 4.2 Rigging

- ▶ Fixed cutter stay with tensioner and running backstays.
- ▶ Standing rigging: Rod rigging.
- ▶ Genoa hydraulic furling system Reckmann.
- ▶ Main sheet 14mm, winches situated within reach of the helmsman.
- ▶ Genoa sheets 16mm, winches situated within reach of the helmsman.

### 4.3 Sails

- ▶ Mainsail, fully battened, slab reefing by North Sails.
- ▶ Lazy jacks and main sail cover.
- ▶ Furling genoa by North Sails.

# 5

## Interior

### 5.1 General

As with all Contest Yachts the interior will be fully made at our own yard in Medemblik, with great attendance to flexibility and detailing.

### 5.2 Standard features

- ▶ Light oak joinery.
- ▶ Oak floor.
- ▶ Matt varnished.
- ▶ Chrome fittings throughout.
- ▶ Padded side panelling.
- ▶ Padded sections throughout the boat.
- ▶ Diagonally sliding saloon table for easy access for comfortable lounging and dining.
- ▶ Two ottomans for occasional seating with release fitting for easy stowage while sailing.
- ▶ Shower stalls with on handle mixer valves.
- ▶ Doors with anti-rattle door locks.
- ▶ Corian worktops in galley.
- ▶ Corian tops in each head with washbasins.
- ▶ Design taps.
- ▶ Five-burner cooker, with oven and grill fitted on gimbals (stainless steel).
- ▶ Cooker hood with extractor fan in galley.
- ▶ Microwave stainless steel in galley.
- ▶ Washer-dryer.
- ▶ Marantz sound system in saloon.
- ▶ Speakers in cockpit.
- ▶ Quality upholstery, colour to owner's choice.
- ▶ Quality curtain blinds for portholes.
- ▶ Quality curtain blinds behind padded panels for hull windows.
- ▶ Sprung slats owner's cabin.
- ▶ Roller blinds at all skylight hatches.
- ▶ Lee cloths in all berths.
- ▶ Overhead lights in all cabins.
- ▶ Dimmers on overhead lights throughout the ship.
- ▶ LED ceiling lights.
- ▶ Red navigation light above chart table.
- ▶ Reading lights on bulkhead owner's cabin.
- ▶ Careful noise reduction throughout.
- ▶ Engine room well insulated.
- ▶ Comfortable mattresses in all cabins.
- ▶ 60-set (10 persons) of Contest Yachts porcelain crockery.
- ▶ 40-set (10 persons) of drinking glasses and bottle stowage in bar.
- ▶ Automatic lighting (30 seconds) when opening companionway hatch.
- ▶ Waste bin in galley.
- ▶ Extensive mirrors in heads.

### 6.1 Engine

- ▶ Spacious engine room with easy access from top side.
- ▶ Volvo Penta D4-260 191kW (260hp) 3500 rpm 4 cylinder turbo-charged diesel engine.
- ▶ Indirect cooling.
- ▶ Hurth ZF 220 Hydraulic gearbox.
- ▶ Separate main switch to enable generator start batteries to be used as engine starter battery.
- ▶ Single lever gears throttle control on starboard steering pedestal.
- ▶ Engine panel fitted in cockpit including rev. counter, oil pressure- temperature- and charge alarm, start and stop buttons.
- ▶ Water cooled exhaust with water lock and water separator.
- ▶ Stainless steel propeller shaft with thrust bearing and flexible coupling.
- ▶ Stern tube with water lubricated bearings and water seal.
- ▶ V-bracket propeller shaft.
- ▶ Four bladed Brunton folding propeller in bronze.
- ▶ Engine room insulated with combined drone- and sound absorbing insulation.
- ▶ Engine room ventilation by double electric ventilators and natural ventilation grills.
- ▶ Oil transfer system on engine, gearbox and generator.
- ▶ Automatic engine room fire extinguish system.

### 6.2 Bow thruster

- ▶ 20hp (300kgf) hydraulic retractable bow thruster.

### 6.3 Fuel system

- ▶ Fuel tank capacity 2,500 litres (three tanks).
- ▶ Drain pump on fuel tanks.
- ▶ Double fuel filter with water separator. Acoustic and visual “water in fuel” alarm.
- ▶ Diesel tank level gauge on switch panel.

### 6.4 Fresh water system

- ▶ Pressurized hot & cold water system.
- ▶ Water tank capacity 1,500 litres.
- ▶ 2x Water heater 40 litres with heat exchanger to engine and 750 W immersion heating element.
- ▶ Mixer taps in galley and heads.
- ▶ Water tank level gauge on switch panel.
- ▶ Stern shower.
- ▶ Deck wash connections fresh and sea water.

### 6.5 Bilge system

- ▶ Centralized bilge pump system with suction points throughout the boat, equipped with two electric bilge pumps and backup manual bilge pump.
- ▶ Electric bilge pump can be operated from steering pedestal.
- ▶ Electric pump in front and aft ship with flexible hose for water discharge in any compartment.
- ▶ Water detection in saloon when heeling.

### 6.6 Black & grey water system

- ▶ Manual flush seawater toilet in skipper’s cabin.
- ▶ Electric flush seawater toilets in guest cabins.
- ▶ Electric flush seawater toilet in aft head.
- ▶ Separate black water system in front and aft ship.
- ▶ Indicator on black water tank indicating full or 50%.
- ▶ Electric valves to discharge black water tanks.
- ▶ Shower stalls with automatic drain.
- ▶ Separate grey water system in front and aft ship.

### 6.7 Refridgeration system

- ▶ Two refrigerators in stainless steel with front door.
- ▶ Top opening freezer in galley work top.
- ▶ Top opening fridge in cockpit.

### 6.8 Ventilation system

- ▶ Forced ventilation system in engine room.

### 6.9 Climate control system

- ▶ Chiller system throughout.
- ▶ Water heater integrated in chiller system.

### 6.10 Safety equipment

- ▶ Gas valve electric and manual.
- ▶ Four foam fire extinguishers 2kg.
- ▶ Fire blanket.
- ▶ Automatic fire extinguish system in engine room.
- ▶ Fire dampers on engine room ventilation.
- ▶ Foghorn air.
- ▶ Sensors on transom door locks.

### 7.1 AC/DC systems

- ▶ 24 VDC and 230 VAC system on board.
- ▶ Dedicated technical area (electrical room) for switches and fuses.
- ▶ Standard energy pack:
  - ▶ Service batteries 720 Ah | 24 VDC (Li-Ion)
  - ▶ Start battery engine 100 Ah | 12 VDC
  - ▶ Start battery generator 100 Ah | 12 VDC
  - ▶ Battery charger service batteries 200 A | 24 VDC
  - ▶ Battery charger start battery 25 A | 12 VDC
  - ▶ Battery charger generator start battery 25 A | 12 VDC
  - ▶ Inverter 230 VAC | 50 Hz | 4.000 W on service batteries
  - ▶ Monitoring display batteries
  - ▶ Alternator 115 A | 12 VDC start battery engine group
  - ▶ Second alternator 75 A | 24 VDC service battery group
  - ▶ Generator 1500 rpm, 17,5kW, 230 VAC - 50Hz
  - ▶ Hydraulic pump on PTO generator
  - ▶ 230V - 50 Hz shore power connection:
    - ▶ Shore power isolation transformer 7.0 kW | 32 A
    - ▶ Shore power socket for 230 VAC | 50 Hz shore power
    - ▶ Cable 25m with 3-pole CEE 32 A connector
    - ▶ Adapter cable CEE 32 A to CEE 16 A
- ▶ 230V socket in each cabin/compartment.
- ▶ Emergency engine start on service batteries.
- ▶ All sea cocks under waterline are grounded.

### 7.2 Main switch panel

- ▶ Touch screen mounted near chart table.
- ▶ All main switches operated from the touch screen.
- ▶ Tank level gauges integrated in the touch screen.
- ▶ Easy power equipment monitoring.
- ▶ Alarms on touch screen (overriding all pages) for:
  - ▶ Water in boat
  - ▶ Fire extinguish system engine room
  - ▶ Water in fuel
  - ▶ Battery level
  - ▶ Black water tanks
- ▶ Switch for navigation lights on engine/sailing/anchoring.

### Owner's manual

#### Certification

- ▶ The boat is CE certificated category A (unlimited ocean voyages).
- ▶ Lloyd's certificate on hull.

**Contest Yachts**

Overleek 5

1671 GD Medemblik

The Netherlands

tel +31 (0)227 543 644

fax +31 (0)227 545 037

info@contestyachts.com

www.contestyachts.com

