

Swift Racing Order Info

# Coastal Boats

Ver. 2.16A



## Introduction

Swift Racing coastal boats are designed and developed to excel in coastal conditions meeting and surpassing all FISA requirements.

The range includes three hull designs for CO1x, one design for CO2x and one for CO4x+.

Swift Racing has been an official supplier at each of the World Rowing Coastal Championships (WRCC) since 2018, the Asian Rowing Coastal Championships (ARCC) since 2017, and other events including French, Spanish, Irish and GB National Championships, the 'Around the Island' 42km Marathon in Hong Kong and The Price Albert Challenge in Monaco.

Swift Racing boats are also the boats of choices for World Rowing Tours and so many other popular tours in the world. They are designed to perform for a wide range of abilities, and in addition to being great for beach sprinting and endurance racing, they are popular for touring too. Their great performance has been recognized by other boat builders, who have copied them.



Some of the recent successes include:

- World & European Rowing Coastal Championships: 50% of all medals in 2024
- Official Supplier of C2x for the 2024 World Rowing Beach Sprint Finals
- Official Supplier of C1x for the 2024 European Rowing Beach Sprint Finals
- World Rowing Coastal Championships; 13 of 21 medals in 2023, 12 in 2022, and 10 in 2021
- European Rowing Coastal Championships; 12 medals in 2023, 15 in 2022
- Official Supplier of C2x for the 2023 European Rowing Beach Sprint Finals
- Official supplier of the 2023 Asian Beach Sprint Finals
- French Coastal Championships; 72% of medals in 2023 (17 of 25 Gold)
- Irish Coastal Championships; 13 medals in 2023 (80% of all Gold medals)
- Spanish Coastal Championships; 62% of medals in 2021

This is more than 50% of the medals at all major coastal rowing events in the world.

## Moulds & Standard Rigging

Custom riggers are available.

\* = "Wing rigger only"

Mould #	C102A-*	C103A-*	C102H-*	C202B-	C402C+	RecC101-*
Boat type	1x	1x	1x	2x/-	4x/+	1x
Crew weight - kg	65-95	65-95	85-115	65-95	65-95	60-120
Crew weight - lb	143-209	143-209	176-243	143-209	143-209	132-265
Length	597	592	598	750	1069	500
Waterline Beam -cm	46.5	45	51	62	74.5	56
Span - sweep	/	/	/	860	850	/
Work height - sweep	/	/	/	165	165	/
Lateral pitch - sweep	/	/	/	0	0	/
Bow (starb'd) 1/2 span - scull	790	790	790	790	790	790
Stroke (port) 1/2 span - scull	790	790	790	790	790	790
Bow Work height - scull	170	170	185	170	170	180
Str Work height - scull	160	160	175	160	160	170
Bow Lateral pitch - scull	0	0	0	0	0	0
Str Lateral pitch - scull	0	0	0	0	0	0

From July 2024 we have kept the same standard work height as before, but without using spacers. Using the spacers provided will increase work height by 10mm.

Note that the wing rigger quick release system adds 10mm extra work height.

As with all our boats, we can build custom riggers, just fill in the details in our order form.

### CO102- : The “all-rounder” and probably the most sold Coastal 1x in the World

*More stable, used by about 90% of our crews at World Champs etc, definitely a good choice for beginners too.*

With 4 out of 6 medals at the 2024 WRCC, the 102 excels in waves and more difficult conditions, and to give confidence to rowers with less stability skills.

It gives an advantage when waves gain height, and its extra stability makes it comfortable to apply power, a very enjoyable boat for beginners and champions alike.

It was the boat of choice in 2019 WRCC for Hong Kong's infamous “washing machine” waters and was rowed to Gold every single year since 2019.

The standard fin position is optimized for tracking and stability, with the possibility to have a second fin box for beach sprints.

Stern or reverse wing rigger.

It was also the boat of choice for the 2024 European Rowing Beach Sprint Finals in Poland.

### CO103- : In the right hands, probably the fastest C1x out there!

*Less stable, but could be faster with high performance rowers.*

The 103 CO1x is designed for highly skilled coastal rowers and/or less wavy conditions. Crews in the 103- have medaled at the WRCC in 2021, 2022, 2023 and 2024 and won both Gold medals in 2018.

The standard fin position is optimized for tracking and stability, with the possibility to have a second fin box for beach sprints.

Stern or reverse wing rigger

## CO102H-: The “big boys’ boat”

*The heavyweight version based on C102-, good for 85-115kg, but will also be the best choice for anyone heavier than 115kg.*

The first hull designed specifically for heavyweights. Following requests from heavier and taller athletes for a boat better suited to them, we designed a bigger version of our popular 102, with more buoyancy all along the hull and with a cockpit adapted for taller athletes. It will feel the same as on the CO102 but will cope better in waves for heavier rowers. It was rowed to M1x Bronze in its first outing, at the 2023 ERCC.

The standard fin position is optimized for tracking and stability, with the possibility to have a second fin box for beach sprints.

Stern or reverse wing rigger.

## CO202B-

Our CO2x shape is like no other. Based on our very successful CO4x+, it excels in surfing, especially when there is a bit more weight in bow seat. We improved the hull and cockpit in late 2020 to optimize comfort and speed, then was rowed to Gold, Silver and Bronze at the 2021 WRCC, and won more than 50% of 2x medals at 2022 WRCC.

The standard fin position is optimized for tracking and stability, with the possibility to have a second fin box for beach sprints.

Reverse design riggers with four fixing points and a short outboard make them very efficient, but also allow for quick derigging for compact storage.

It was also the boat of choice for the 2023 European Rowing Beach Sprint Championships in France, and for the 2024 World Rowing Beach Sprint Finals in Italy.

## C402C+

With even small waves coming from stern, it will start to surf. The boat runs beautifully and does not stop when going through waves. The hull is designed to excel in surfing and to perform in flat water too.

It won 5 out of 6 medals at the 2023 WRCC for a total of 22 World Championship medals in 5 World championships in flat and wavy conditions. Don't look further, the Swift CO4x+ leads them all. The boat has set records at long-distance races such as in the San Remo to Monaco 32km race and Hong Kong's 'Around the Island Race'.

Incredible at turning thanks to its clever rudder system and back half hull shape.

Reverse design riggers with four fixing points and a short outboard make them very efficient, but also allow for quick derigging for compact storage at boat houses.

## RecC101-

*Designed for recreational use, rather than racing.*

Our latest Coastal model. It meets the World Rowing requirements for Beach Spring and Endurance Coastal racing, but it is designed for recreational use, rather than racing.

The 3 main differences are:

- 1m shorter than most racing Coastal 1x, for easy transport by car, storage in the garage, boat handling etc, and a shorter boat helps to keep the weight down.
- Flatter hull shape for extra stability.
- Wide stern to minimize the “pitching” (porpoising) that would normally happen with such a short boat.

This boat still have a good turn of speed and is very maneuverable.

We offer 2 grades for this boat, Elite Plus, the same as offer for our other Coastal boats, but Carbon Pro instead of Elite Carbon, which uses pre-preg carbon to minimize weight, handy when carrying it around for adventures!

It is available with a choice of stern wing or reverse wing rigger, and in a choice of gelcoat colours.

## Grades/construction

All Swift Coastal boats are made using "sandwich" construction, with very thick and strong carbon saxboards and lips, which combined with cross and longitudinal stringers, results in some of the stiffest boats on the market.

All Swift Coastal boats share these features;

- "Sandwich" construction (ie. A core material such as honeycomb, coremat, or PVC foam is sandwiched between 2 "skins").
- Use epoxy resin, and vacuum moulding.
- Enclosed seat decks for maximum buoyancy (exceed FISA's requirement).

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### *Carbon Pro*

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#### **Overview**

Lowest weight for easier handling off the water.

**Hull** Honeycomb core with inner and outer skin of prepreg carbon, and prepreg carbon reinforcing.

**Canvas decks** Honeycomb core with inner and outer skin of prepreg carbon.

**Carbon Pro grade is only for RecCO1x.**

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### *Elite Carbon*

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**Overview** Our lightest construction, around 10% below World Rowing minimum weight.

**Hull** Honeycomb with an outer skin of kevlar, and inner skin of carbon cloth.

**Canvas decks** Coremat core with inner and outer skins of carbon.

**Seat deck** Closed cell PVC foam core with inner and outer skins of carbon.

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### *Elite Plus*

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**Overview** Our standard construction, around World Rowing minimum weight.

**Hull** Coremat core with an outer skin of fibreglass, inner skin of carbon cloth, and carbon reinforcing

**Canvas decks** Coremat core with inner and outer skins of fibreglass.

**Seat deck** Closed cell PVC foam core with fibreglass skins, and fibreglass reinforcing.

## Stretchers and Shoes

Coastal boats are supplied with lightweight carbon and PVC foam sandwich stretchers.  
There is a choice of shoes as below:

	Active shoes	Swift shoes	Flexfoot
<b>Elite carbon</b>	Standard	Standard	Standard
<b>Elite plus</b>	Upgrade	Standard	Standard



**Active Tools adjustable shoes**  
2 sizes available:  
40-45 and 43-48



**Swift Racing shoes**  
Sizes 37-54 available



**Flexfoot**  
Heel restraints and solid heels for safety, rounded heels for a good fit. Approved by USRowing and British Rowing.

## Shoe Sizes

For shoes, the order form needs to be completed with European shoe sizes.  
Please use this chart to help you.

Euro	GB	US	JPN
37	4 1/4	4 3/4	22.75
38	5	5 1/2	23.5
39	5 3/4	6 1/4	24.25
40	6 1/2	7	25
41	7 1/4	7 3/4	25.75
42	8	8 1/2	26.5
43	8 3/4	9 1/4	27.25
44	9 1/2	10	28
45	10 1/4	10 3/4	28.75

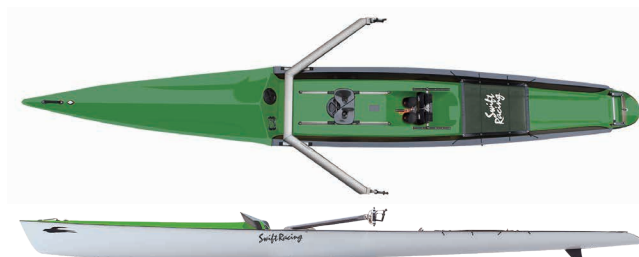
Euro	GB	US	JPN
46	11	11 1/2	29.5
47	11 3/4	12 1/4	30.25
48	12 1/2	13	31
49	13 1/4	13 3/4	31.75
50	14	14 1/2	32.5
51	14 3/4	15 1/4	33.25
52	15 1/2	16	34
53	16 1/4	16 3/4	34.75
54	17	17 1/2	35.5

## Colour Options

All hulls are off white, and there are 4 possibilities for the upper part of the boat (decks and cockpit), so:



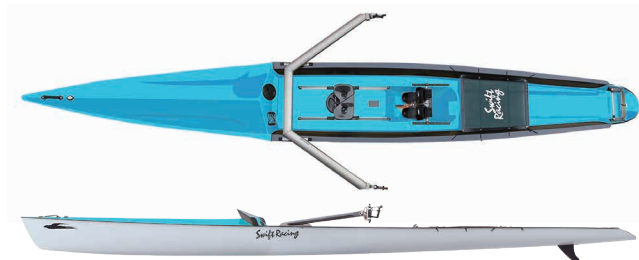
Off white hull with red upper



Off white hull with green upper



Off white hull with yellow upper



Off white hull with aqua blue upper



Off white hull with off white upper

Colour & RAL	Name	Hull	Upper
		Colour	Colour
RAL 9016	Off white	from 2023	from 2023
RAL 7035	Light grey	until 2023	until 2023
RAL 3020	Red	No	from 2018
RAL 3001	Red	No	until 2018
RAL 5012	Aqua blue	No	No
RAL 1018	Yellow	No	No
RAL 6024	Green	No	No

**PLEASE NOTE** that the colours shown here are only very approximate representations. If the choice of colour is very important, then you should check the colour using the RAL numbers listed left.

From 2023 we started to use **RAL9016** (off white) instead of RAL7035 (light grey) **for hulls**.

From 2018 we started to use **RAL3020** instead of RAL3001 "red".

From 2022 we are using gelcoat as a base layer, then finishing with the same polyurethane paint as for Racing Shells. This is for hulls and upper parts, bow & stern decks and cockpits.

## Name on Boat

50mm tall, ariel font, in UPPER CASE & lower case. MUST be ordered at the same time as boat. Ask Distributor about cost.

## Electronics

Wiring and speaker only systems can be sent to all countries. Complete systems can only be sent to countries without a Nielsen Kellerman dealer: <https://nksports.com/dealers>

See NK's website for more details of each product: <https://nksports.com/category-all-products>

### Cox Box GPS & Cox Box GPS Mini

Option 4# & #5 includes the following:	Part #	Option #	for 4+	for 8+
Harness Module A   Audio (No Rate)	0290	4&5	1	1
Harness Module M   Speaker Extension	0292	4&5		2
Loudspeaker 2, Bulkhead	0207B	4&5	2	3
Wiring bung	/	4&5	10	20
Wiring fixing Buckle	/	4&5		
Option #12 & #11 includes all parts in option #5, plus the following:	Part #	Option #	for 4+	for 8+
CoxBox GPS	0110G	12	choose 1	choose 1
Cox Box Mini Audio Amplifier (comes with a black dial)	0102	11		
Microphone - R2 Connector	0200	11&12	1	1
CoxBox Standard Charger - US Plug	0202	11&12		
CoxBox GPS/Core Rim Bumper	0111	12	choose 1	choose 1
Cox Box Mini Bumper	0107	11		

### Speed Coach GPS & Speed Coach GPS HR

Option 9 includes the following:	Part #	Option #	all boats
SpeedCoach GPS Model 2 with Training Pack	0183T	9	1
SpeedCoach GPS Bumpers	0189	9	
SpeedCoach GPS & StrokeCoach with Surge Rate Strap Mount (no installation)	0286	9	
SpeedCoach GPS & StrokeCoach with Surge Rate T-bracket Dock	0283	9	optional
Option #10 includes all parts in option #9, plus the following:	Part #	Option #	all boats
SpeedCoach GPS Model 2 Heart Rate Belt (*Compatible w/ 0183T ONLY)	0127	10	1

### Stroke Coach Surge

Option 6 only	Part #	Option #	all boats
StrokeCoach with Surge Rate (includes quick wrap dock)	0125	6	1
Stroke/SpeedCoach Bumpers (order minimum one per Coach unit)	0159	6	
SpeedCoach GPS & StrokeCoach with Surge Rate Strap Mount (no installation)	0286	6	
SpeedCoach GPS & StrokeCoach with Surge Rate T-bracket Dock	0283	6	optional

## Seat Type

All boats are supplied with lightweight carbon seat tops.



Single action type with bearings, height adjustable (Sea33B-c).



Double action type (add extra 220g per seat) (SeaD7B)

## Rigger Type

See following page for a full explanation of different rigger types:

<https://swiftracing.com/coastal-rowing-rigger-options/>

## Note About Riggers

Our riggers are made from high grade aluminium, welded to the optimum design and hard anodised for a long lasting finish.

All are adjustable for span, work height and pitch.

We guarantee the accuracy of our span, work height and pitch, see website for details.

### Aluminium stern wing riggers – heavy duty

Sculd riggers using a heavy duty aerofoil profile, for use without backstays, ideal for lower ability crews and recreational rowing, mounted over the foot stretcher.

### Aluminium reverse wing riggers

Sculd and sweep riggers using aerofoil profiles, with C bracket to hold the pin, mounted behind the rower.

### Folding ali back riggers

A lightweight design with C bracket to hold the pin, mounted to the strong lip and rigger mounts.

All measurements are in millimeters or degrees.  $\pm 3\text{mm}$ ,  $\pm 0.3$  degrees is the margin of error we work to.

Span and work height are calculated:

- From the boat's center line, when the pin is in the MIDDLE position of the rigger block.
- When the oarlock is vertically in the MIDDLE position of the pin.
- From the curve around the hole in the seat top to the sill of the oarlock.

All rigger types are adjustable for work height and span.

	Work height adjustment				Work height adjustment Total	Span adjustment per rigger
	by pin washers	by 10mm spacers	by rigger height	by height wedge		
<b>Ali wing scull (for 1x)</b>	±18mm	+10mm			+ 28, - 18mm	±40mm
<b>Reverse Ali Wing scull (for 1x)</b>	±18mm	+ 10mm			+ 28, - 18mm	±32mm
<b>Folding ali back scull</b>	±18mm			±10mm	+ 28, - 18mm	±16mm

Wing riggers have +10mm extra work height adjustment with Swift's "10mm spacers", Prod# Rig33 (1 set supplied as standard).

Folding Ali back scull have ±10mm extra work height adjustment with Swift's "10mm spacers", Prod# Rig94 (Not supplied as standard).

The Folding Ali Back and Reverse Ali Wing riggers are adjustable for lateral pitch.

For Ali Wing riggers, lateral pitch can be easily adjusted with our pin wedges, Rig10A (1 degree wedges supplied as standard).



Reverse ali wing on 1x  
(Black Swift for Elite Carbon grade)



Folding ali back on 2x and 4x+



Heavy duty ali wing on 1x

## Quick Release (for wing riggers)

Our wing rigger quick release system is precision made, easy to use and reliable.



Quick Release (QR) parts are the same height as our standard 10mm spacer. Therefore when QR parts are used adjustability of work height is reduced by 10mm.

## Rudders

The 4x+ has a rudder system, just in front of the cox.

There are 2 options for rudders:

Our standard rudder for CO402x+ is sensitive and very effective, part of what makes Swift quads turn so well, and important for manoeuvring in very big waves.

The short rudder is less responsive, and requires less skill and attention, and may be useful in shallow water and calmer conditions.



Rudder system

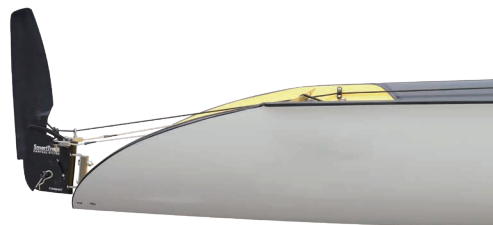


Standard (250 mm)



Short (150mm)

The 1x and 2x can be supplied with an optional shoe controlled, stern-mounted rudder, which can be pulled up out of the water.



## Fins

For 1x and 2x there are 3 options for fins: small for calm conditions, medium for rougher conditions, and a low profile fin which can be useful for beach sprint races and rowing in shallow water. Fins can be easily changed from 1 type to another with 2.5mm Allen key.



medium (205mm)

small (160mm)

beach sprint (80mm)sprint

There is also a choice of fin box position: standard and "beach sprint." The beach sprint position is 1m closer to the bow, than the standard position, so it is easier to turn, which can be good for a short slalom type race such as beach sprints. It is also less likely to scrape against the beach at start. Or there is the option to have 2 fin boxes.

	Standard	Beach sprint
CO102-	60cm	160cm
CO103-	60cm	160cm
CO202A-	120cm	220cm



## Wave Break & Bow deck hatch

The 402+ mould was updated in Feb 2022 to including a sliding wave break.

There is a choice of hatch near the wave break, our standard 180mm hatch or our oval hatch, better for storing more stuff "on tour".



CO4x+ sliding type wave break & choice of hatch

## Stern Cover

Our optional stern cover is to reduce the amount of water coming into the stern of the boat. This can happen when you are stationary, waiting for the start of a race in mid sizes waves or when the wave length is shorter than the length of the boat, as the stern will dip under water. It can also be useful for long distance touring - ask distributor about extra cost.



## Waterproof Storage Bag - Touring Option

Waterproof storage bags for 2x and 4x+, attached between rigger mounts with velcro and clips, suitable for touring etc - ask distributor about extra cost.



## Cox Feet Blocks for C04x+

Cox feet blocks are used to offer a second position for the cox's feet. Attach to boat with 3M Dual Lock - ask distributor about extra cost.



## Bow Protective Wrap

From Feb 27, 2024, protective, clear wraps for bow (hull) to help protect boats from damage on the beach - ask distributor about extra cost.

We use 2 large pieces on either side of the boat from the deck joint down to the keel, overlapping each other along the keel.

There is an extra piece that is 10cm wide, 100cm long, attached along the keel, from the top of the bow, so there will be 3 layers in the most important area.

The material is TPU 6.5mil type.



## BowTuff Protective Tape

BowTuff provides protection against wear and tear and damage from small stones and shells to the keel in the bow area, especially when finishing on beaches.

It is 5cm wide and 60cm long.



## Bowdeck Decorative Wraps

Decorative wrap for bow deck - ask distributor about extra cost.  
 Customers can customise their boats using our template or use one of our designs.  
 The material is PVC.



## Trestles



Steel trestles  
(simple for CO 1s)



Steel trestles  
(large for CO 1s, 2s & 4s)

## Boat Weights

	Carbon Pro		Elite Carbon		Elite Plus	
<b>CO102A-</b>	/	/	32±1kg	70±2lbs	35±1kg	77±2lbs
<b>CO103A-</b>	/	/	32±1kg	70±2lbs	35±1kg	77±2lbs
<b>CO202B-</b>	/	/	53±1kg	116±2lbs	60±1kg	132±2lbs
<b>CO402C+</b>	/	/	112±3kg	246±7lbs	130±3kg	286±7lbs
<b>RecCO101-</b>	27±1kg	59±2lbs	/	/	33.5±1kg	74±2lbs

- Elite Carbon CO boats are designed to be below WR minimum weights. We will not provide free steel weights, so if you need them, please order them through our Parts Order Form.
- Elite Carbon CO boats will continue to be supplied with weights, as necessary, to meet the WR minimum.