Moulds & Standard Rigging

Custom riggers are available.

Blue highlight means "Wing rigger only"

1s

Mould #	105-	121-	109L-	107-	122-	109H-
Boat type	1x	1x	1x	1x	1x	1x
Crew weight - kg	50-65	50-65	55-65	57-70	60-75	65-75
Crew weight - lb	110-143	110-143	121-143	125-154	132-165	143-165
Length - cm	790	745	790	778	802	790
Waterline Beam -cm	25	25	25.1	23.4	25.8	25.8
Production Date	Jun 07	Aug 21	Jun 12	Aug 07	Aug 21	Jun 12
Span - sweep	xxx	xxx	xxx	xxx	xxx	xxx
Work height - sweep	xxx	xxx	xxx	xxx	xxx	xxx
Lateral pitch - sweep	xxx	xxx	xxx	xxx	xxx	xxx
Bow 1/2 span - scull	795	795	795	795	795	795
Stroke 1/2 span - scull	795	795	795	795	795	795
Bow Work height - scull	165	165	165	165	175	175
Str Work height - scull	155	155	155	155	165	165
Bow Lateral pitch - scull	0	0	0	0	0	0
Str Lateral pitch - scull	0	0	0	0	0	0

Mould #	104-	123-	111-	124-	103-	125L-
Boat type	1x	1x	1x	1x	1x	1x
Crew weight - kg	70-83	70-85	75-90	75-90	83-100	85-100
Crew weight - lb	154-183	154-187	165-198	165-198	183-220	187-220
Length - cm	800	805	821	804	830	826
Waterline Beam -cm	26.5	25.8	25.8	26.5	28.2	28.3
Production Date	2005	Jul 22	Jan 17	Aug 21	2005	Jul 22
Span - sweep	xxx	xxx	xxx	xxx	xxx	xxx
Work height - sweep	xxx	xxx	xxx	xxx	xxx	xxx
Lateral pitch - sweep	xxx	xxx	xxx	xxx	xxx	xxx
Bow 1/2 span - scull	795	795	795	795	795	795
Stroke 1/2 span - scull	795	795	795	795	795	795
Bow Work height - scull	175	175	175	175	175	175
Str Work height - scull	165	165	165	165	165	165
Bow Lateral pitch - scull	0	0	0	0	0	0
Str Lateral pitch - scull	0	0	0	0	0	0

Mould #	125H-
Boat type	1x
Crew weight - kg	95-110
Crew weight - lb	187-220
Length - cm	826
Waterline Beam -cm	28.3
Production Date	Jul 22
Span - sweep	xxx
Work height - sweep	xxx
Lateral pitch - sweep	xxx
Bow 1/2 span - scull	795
Stroke 1/2 span - scull	795
Bow Work height - scull	175
Str Work height - scull	165
Bow Lateral pitch - scull	0
Str Lateral pitch - scull	0

2s

Mould #	205-	221-	211L-	222-	211H-	209-
Boat type	2x/-	2x/-	2x/-	2x/-	2x/-	2x/-
Crew weight - kg	50-60	50-65	55-65	60-75	65-75	65-80
Crew weight - lb	110-132	110-143	121-143	132-165	143-165	143-176
Length - cm	892	926	940	943	940	940
Waterline Beam -cm	30.8	29.5	32.1	32.6	32.5	33
Production Date	Dec 08	Aug 21	Sep 12	Jul 22	Sep 12	Aug 10
Span - sweep	850	850	850	850	850	850
Work height - sweep	150	150	160	170	170	170
Lateral pitch - sweep	0	0	0	0	0	0
Bow 1/2 span - scull	790	790	790	790	790	790
Stroke 1/2 span - scull	790	790	790	790	790	790
Bow Work height - scull	155	165	165	175	175	175
Str Work height - scull	145	155	155	165	165	165
Bow Lateral pitch - scull	0	0	0	0	0	0
Str Lateral pitch - scull	0	0	0	0	0	0

Mould #	210-	223-	224-	225-
Boat type	2x/-	2x/-	2x/-	2x/-
Crew weight - kg	70-85	70-85	75-90	85-100
Crew weight - lb	154-187	154-187	165-198	187-220
Length - cm	951	958	970	978
Waterline Beam -cm	33.7	34.5	34.5	35
Production Date	Dec 11	Jul 22	Jul 22	Aug 21
Span - sweep	850	850	850	850
Work height - sweep	170	170	170	170
Lateral pitch - sweep	0	0	0	0
Bow 1/2 span - scull	790	790	790	790
Stroke 1/2 span - scull	790	790	790	790
Bow Work height - scull	175	175	175	175
Str Work height - scull	165	165	165	165
Bow Lateral pitch - scull	0	0	0	0
Str Lateral pitch - scull	0	0	0	0

4s

Mould #	409-	421-	406-	422-	411-	423-
Boat type	4x/-	4x/-	4x/-	4x/-	4x/-	4x/-
Crew weight - kg	50-65	55-70	60-80	65-80	70-85	75-90
Crew weight - lb	110-143	121-154	132-176	143-176	154-187	165-198
Length - cm	1150	1143	1187	1175	1185	1175
Waterline Beam -cm	38.7	39.6	42.6	42.5	40.2	42.7
Production Date	Jan 16	Apr' 23	Jan 10	Jul 22	Apr 16	Jul 22
Span - sweep	840	840	840	840	840	840
Work height - sweep	150	160	160	160	170	170
Lateral pitch - sweep	0	0	0	0	0	0
Bow 1/2 span - scull	785	785	785	785	785	785
Stroke 1/2 span - scull	785	785	785	785	785	785
Bow Work height - scull	155	165	165	175	175	175
Str Work height - scull	145	155	155	165	165	165
Bow Lateral pitch - scull	0	0	0	0	0	0
Str Lateral pitch - scull	0	0	0	0	0	0

Mould #	407-	424-	408-	406+	422+	411+
Boat type	4x/-	4x/-	4x/-	4x/+	4x/+	4x/+
Crew weight - kg	75-95	85-100	90-105	45-65	50-65	55-70
Crew weight - lb	165-209	187-220	198-231	99-143	110-143	121-154
Length - cm	1200	1194	1260	1187	1175	1185
Waterline Beam -cm	44.3	43.5	45	42.6	42.5	40.2
Production Date	Aug 22	Aug 22	Mar 13	Nov 11	Aug 22	Apr 16
Span - sweep	840	840	840	840	840	840
Work height - sweep	170	170	170	150	150	160
Lateral pitch - sweep	0	0	0	0	0	0
Bow 1/2 span - scull	785	785	785	785	785	785
Stroke 1/2 span - scull	785	785	785	785	785	785
Bow Work height - scull	175	175	175	155	165	165
Str Work height - scull	165	165	165	145	155	155
Bow Lateral pitch - scull	0	0	0	0	0	0
Str Lateral pitch - scull	0	0	0	0	0	0

Mould #	423+	407+	424+	408+
Boat type	4x/+	4x/+	4x/+	4x/+
Crew weight - kg	60-75	60-80	70-85	75-90
Crew weight - lb	132-165	132-176	154-187	165-198
Length - cm	1175	1200	1194	1260
Waterline Beam -cm	42.7	44.3	43.5	45
Production Date	Jul 22	Aug 10	Aug 22	Mar 13
Span - sweep	840	840	840	840
Work height - sweep	160	160	170	170
Lateral pitch - sweep	0	0	0	0
Bow 1/2 span - scull	785	785	785	785
Stroke 1/2 span - scull	785	785	785	785
Bow Work height - scull	165	165	175	175
Str Work height - scull	155	155	165	165
Bow Lateral pitch - scull	0	0	0	0
Str Lateral pitch - scull	0	0	0	0

8s

Mould #	808+	807+	821+	806+	822+	805L+	805H+
Boat type	8+	8+	8+	8+	8+	8+	8+
Crew weight - kg	50-65	60-75	65-80	70-85	75-90	75-90	85-100
Crew weight - lb	110-143	132-165	143-176	154-187	165-198	165-198	187-220
Length - cm	1600	1653	1685	1700	1700	1760	1760
Waterline Beam -cm	47.3	51.6	48.2	53.2	53	56.2	56.6
Production Date	Mar 14	Mar 12	Aug 23	Jan 12	Aug 21	Aug 10	Aug 10
Span - sweep	840	840	840	840	840	840	840
Work height - sweep	150	150	160	160	170	170	170
Lateral pitch - sweep	0	0	0	0	0	0	0
Bow 1/2 span - scull	785	785	785	785	785	785	785
Stroke 1/2 span - scull	785	785	785	785	785	785	785
Bow Work height - scull	155	155	175	165	175	175	175
Str Work height - scull	145	145	165	155	165	165	165
Bow Lateral pitch - scull	0	0	0	0	0	0	0
Str Lateral pitch - scull	0	0	0	0	0	0	0

808+ is only available as Club A, with Ali Back riggers, and will be around 96kg.

Mould #	823+
Boat type	8+
Crew weight - kg	85-100
Crew weight - lb	187-220
Length - cm	1760
Waterline Beam -cm	51
Production Date	Aug 22
Span - sweep	840
Work height - sweep	170
Lateral pitch - sweep	0
Bow 1/2 span - scull	785
Stroke 1/2 span - scull	785
Bow Work height - scull	175
Str Work height - scull	165
Bow Lateral pitch - scull	0
Str Lateral pitch - scull	0

Other boats

Mould #	2409L+	2409H+	3409-	5408+	6807+
Boat type	2+	2+	3x	5x	6+
Crew weight - kg	60-80	75-95	67-87	75-90	80-100
Crew weight - lb	132-176	165-209	147-191	156-183	176-220
Length - cm	1150	1150	1150	1260	1653
Waterline Beam -cm	37.7	38	38.4	45	51.6
Production Date	Jan-16	Jan-16	Oct-15	Mar 13	Mar-12
Span - sweep	850	850	840	840	840
Work height - sweep	160	170	160	170	170
Lateral pitch - sweep	0	0	0	0	0
Bow 1/2 span - scull	790	790	785	785	785
Stroke 1/2 span - scull	790	790	785	785	785
Bow Work height - scull	165	175	165	175	175
Str Work height - scull	155	165	155	165	165
Bow Lateral pitch - scull	0	0	0	0	0
Str Lateral pitch - scull	0	0	0	0	0

Notes：
2+: Use 409 mould, wing rigger only, bow cox or stern cox.
3x: Use 409 mould, wing rigger only.
5x: Use 408+ mould, with a stern cox (only), heavier than a normal 408+.
5x: Choose only sculling as 5x/4x(+), or with sweep riggers too, as 5x/4x/+.
5x: Boat is supplied with extra riggers and detatchable seat deck to convert from 4x(+) or 4x/+.
6+: Use 807+ mould.
125H- is a modified version of 125L-. The whole boat is made 10mm deeper, the seat deck and rigger are 10mm higher, making it comfortable for crews up to 110kg. The “rowing space” is increased from 142cm to 150cm, so it is the best boat for rowers over 190cm tall, regardless of weight.

Grades/construction

All Swift Racing Shells share these features;

- "Sandwich" construction (ie. A core material such as honeycomb, coremat, or PVC foam is sandwiched between 2 "skins").
- Epoxy resin, cured at high temperture, under vacuum.
- Enclosed seat decks for maximum buoyancy (exceed FISA's requirement).

Carbon Pro

Overview
For when every second counts.

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

Canvas Decks & Seat Deck
Honeycomb core with inner and outer skin of prepreg carbon.

Elite Carbon

Overview
For use in top level competition.

Hull & Saxboards
Honeycomb core with inner and outer skin of carbon, and carbon reinforcing.

Canvas decks
Honeycomb core with inner skin of prepreg carbon, outer skins of carbon.

Seat deck
Honeycomb core for 1s and 2s, Closed cell PVC foam core for 4s and 8s, with inner and outer skin of carbon.

Elite Plus

Overview
For use in top level competition.

Hull
Honeycomb core with inner skin of mostly carbon cloth, outer skin of kevlar, and carbon reinforcing

Saxboards
Honeycomb core with inner skin of carbon cloth, outer skin of kevlar, and carbon reinforcing

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

Seat deck
Honeycomb core for 1s and 2s, Closed cell PVC foam core for 4s and 8s, with inner and outer skin of carbon.

Club A

Overview
Mainly for training purposes, although with only a small weight disadvantage over Elite Plus boats, can still be highly competitive.

Hull
Coremat core with kevlar skins, and carbon reinforcing.

Saxboards
Honeycomb core for 2s, 4s and 8s, closed cell PVC foam for 1s, with carbon and kevlar skins, and carbon reinforcing.

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

Seat deck
Closed cell PVC foam core with kevlar skins.

Club B

Overview
Specifically built for training purposes. Quite heavy, but great “work horses” . This construction is relatively easy to repair.

Hull
Coremat core with fibreglass skins.

Saxboards
Honeycomb core for 2s, 4s and 8s, closed cell foam for 1s, with fibreglass skins, and carbon reinforcing.

Canvas decks
Honeycomb core with fibre glass skins.

Seat deck
Closed cell PVC foam core with fibre glass skins.

Sections (extra cost, except 8s)

If you need a section in a 1x, 2x or 4 for ease of transport, choose this option in the order form.

1s - We can build a section at the forestay (extra 1kg).

2s - We can build a section between bow and stroke seats (extra 1kg).

4s - We can build a section in the stern, just behind the rudder (extra 1kg), or between seats #2 and #3 (extra 2kg).

8s - Choose section position between #4 and #5 , or #6 and #7.

Stretchers & shoes

Racing shells are supplied with lightweight carbon and PVC foam sandwich stretchers.
There is a choice of shoes and flexfoot:

	PBR shoes	Active shoes	Swift shoes	Flexfoot
Carbon Pro	Standard	Standard	Standard	Standard
Elite carbon	Standard	Standard	Standard	Standard
Elite plus	Standard	Standard	Standard	Standard
Club A	Upgrade	Upgrade	Standard	Standard
Club B	Upgrade	Upgrade	Standard	Standard

Against Rowing Shoes

Active Tools adjustable shoes2 sizes available: 40-45 and 43-48

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

Please note, PBR shoes are small, so we suggest to choose shoes that are 1 or 2 sizes larger than normal.

Stretcher fixing system

Choice of stretcher attachment (new 1x moulds only).

Sax mounted stretcher system
(Only for CPro moulds 121-125)

"Shark tooth" stretcher tracks system

Rudder type

Rudders are stainless steel, and are available in standard (50x80mm plate) for straight course rowing, or large (80 x 100mm plate) for river rowing.

Colour options

Standard: main colour is white, trim colour is black

Custom A: main is white, trim is a colour other than black - ask distributor about extra cost

Custom B: Main is NOT white, trim is EITHER black or other colour - ask distributor about extra cost

Custom C: all other combinations, such as white hull, red bow and stern canvas, yellow trim - ask distributor about extra cost

Please note; we use the word "trim" to explain the black parts on the boat (bow and stern). All other parts (hull, bow canvas & stern canvas) we call "main".

Color & RAL #	Name	Main color	Trim color	Color & RAL #	Name	Main color	Trim color
RAL 9005	Black	No	Yes	RAL 6012	Hunter green	No	Yes
RAL 7036	Midium grey	Yes	Yes	RAL 6001	Kelly green	Yes	Yes
RAL 8011	Dark brown	No	Yes	RAL 6017	Light green	Yes	Yes
RAL 8002	Medium brown	No	Yes	RAL 3001	Red	Yes	Yes
RAL 4008	Purple	Yes	Yes	RAL 2008	Orange	Yes	Yes
RAL 4006	Magenta	Yes	Yes	RAL 3015	Light pink	Yes	Yes
RAL 5010	Dark blue	No	Yes	RAL 1016	Light yellow	Yes	Yes
RAL 5015	Light blue	Yes	Yes	RAL 1018	Yellow	Yes	Yes
RAL 5012	Aqua blue	Yes	Yes	RAL 9003	White	Yes	Yes

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 above.

Clear carbon option

The standard colour for Elite Carbon boats is the same as above.
However, as an additional option, the hull and canvas decks can be finished in clear UV resistant polyurethane paint, with white trim with white trim and white joint lines - ask distributor about extra cost.

Chevrons - ask distributor about extra cost

Chevrons need to be ordered on "add notes" page of the order form. All "trim" colours can be used.
All chevrons are 80mm wide, and the angle is 45 degrees. Bow chevrons point to bow, stern chevrons point to stern. "Chevron1" is closest to the center of the boat.

The photo shows 3 chevrons, not 2.
Chevron 1 is green, chevron 2 is yellow, chevron 3 is green.

Example of how to request chevrons:

I want 3 chevrons on bow and stern.
Bow: 1st: RAL4006, 2nd: RAL5015, 3rd: RAL1016.
Stern: 1st: RAL4006, 2nd: RAL5015, 3rd: RAL1016.

Name on boat

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

Seat type

All boats are supplied with lightweight carbon seat tops.

A. Single action type with bearings, height adjustable.

B. Double action type (add extra 220g per seat)

Rigger type

See following page for a full explanation of different rigger types:
https://swiftracing.com/riggers/

Notes 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.

“Ali Back” riggers
A lightweight 2 stay design with a C bracket to hold the pin, very efficient at transferring power to boat speed.
Side mounted.

Aluminium stern wing riggers
Scull and sweep riggers using aerofoil profiles, for use with backstays, mounted over the foot stretcher.

Aluminium stern wing riggers – heavy duty
Scull 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
Scull and sweep riggers using aerofoil profiles, with C bracket to hold the pin, mounted behind the rower.

Carbon reverse wing riggers - ask distributor about extra cost
Scull and sweep riggers using aerofoil profiles, with C bracket to hold the pin, mounted behind the rower.
Carbon reverse wing riggers can only be used on new Racing Shell moulds (middle number is 2, such as 121-).

All measurements are in millimeters or degrees. ±3mm, ±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.
- When Ali Back riggers are fixed to the boat in the MIDDLE of the 2 possible positions.
- When Ali Wing riggers are fixed to boats with 1 piece of 10mm spacer.
- When Ali Reverse Wing riggers (1x only) are fixed to boats with 1 piece of 10mm spacer.
- When Carbon Reverse Wing riggers (1x only) are fixed to boats with 1 piece of 10mm spacer.
- 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		
Ali wing scull with backstay	±18mm	±10mm			±28mm	±21mm
Ali wing scull heavy duty	±18mm	±10mm			±28mm	±21mm
Ali wing sweep	±18mm	±10mm			±28mm	±21mm
Ali reverse wing scull	±25mm	±10mm			±35mm	±19.5mm
Ali reverse wing sweep	±19mm	±10mm			±29mm	±19.5mm
Carbon reverse wing scull	±25mm	±10mm			±35mm	±19.5mm
Carbon reverse wing sweep	±19mm	±10mm			±29mm	±19.5mm
Ali back scull	±25mm		±6mm	±20mm	±41mm	±19.5mm
Ali back sweep	±19mm		±6mm	±20mm	±35mm	±19.5mm

Ali Back riggers have some work height adjustment by changing the height that rigger is attached to the boat.
Ali Back riggers have some work height adjustment using Swift's "Rigger height wedges", Prod# Rig11.
Ali wing riggers have ±10mm extra work height adjustment with Swift's "10mm spacers", Prod# Rig33 (1 set supplied as standard).
The Ali Back, Ali Reverse Wing and Carbon Reverse Wing riggers are adjustable for lateral pitch.
For Ali Wing , the lateral pitch can be easily adjusted with our pin wedges, Rig10A (1 degree wedges supplied as standard).

Quick release (for ali 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.

Wrapping

Clear plastic wrapping is available, but help us to reduce the negative impact of our sport by choosing not to have this on your boats.

Trestles

Steel trestles
(small for 1s & 2s)

Steel trestles
(simple for 1s & 2s)

Aluminium trestles
(small for 1s & 2s)

Boat weights

Carbon Pro with Carbon Reverse Wing Riggers are guaranteed at or below FISA minimum weight.
Carbon Pro with Aluminium Reverse Wing Riggers are at or below FISA minimum weight, except 1x at 14.3kg maximum.
Elite Carbon and Elite Plus are at or near FISA minimum weight.
Club A is APPROXIMATELY heavier than Elite Plus by 2kgs (4.4lbs) for 1s, 2.5kgs (5.5lbs) for 2s, 4kgs (8.8lbs) for 4s, 8kgs (17.6lbs) for 8s.
Club B is APPROXIMATELY heavier than Club A by 1.5kgs (3.3lbs) for 1s, 1.5kgs (3.3lbs) for 2s, 3kgs (6.6lbs) for 4s.

Fore more details contact your Distributor.