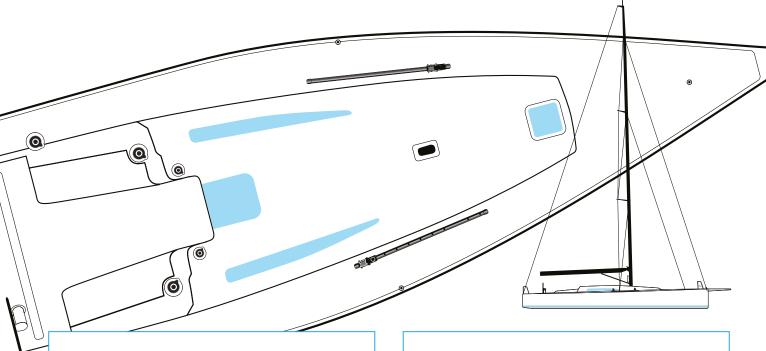




BOAT MEASURING GUIDE

Measure your boat now for new or used sails by completing this editable Guide and watch our helpful step-by-step videos to see how it's done (don't worry, it's very straightforward)!



New Sails

Making sails isn't difficult. But making sails that are well-designed and constructed in accordance with strict quality control standards requires real dedication. Even more so when those sails are backed up by a global 30-day money-back guarantee and a full 12-month warranty.

At Sail Exchange, our sails are made with passion, integrity and transparency, delivered globally, on time and at the right price.

Used Sails

At Sail Exchange, we consign, review, rate, sell, and ship used sails globally with the same exacting quality control standards we apply to the new sails we design in-house and have manufactured to our standards.

With accurate measurements, we can recut and modify used sails to fit your boat. We also accept trade-ins of used sails against new sail purchases (please see our Ts&Cs).

It's our promise to clients:

We deliver premium-quality new or used sails that fit your boat at unmatchable value, guaranteed.



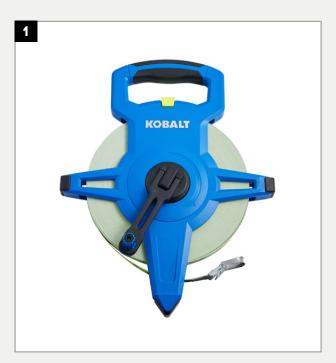


Tools required

1. TAPE MEASURE

- At least the length of the mast plus 10%.
- The tape measure zero point is preferably large enough to accept a halyard snap shackle.
- If using a metal tape measure, you can whip on a stainless steel ring and then deduct the bearing point from the zero point.
- If using a flexible or fibreglass tape measure, a good tip is to take the tape measure to a sail maker and have a stainless steel 25mm x 5m ring sewn into the zero point to accept a snap shackle.

- 2. SMALL METAL RULER
- 3. CLIPBOARD
- 4. DIGITAL CALLIPERS
- **5. SMALL LINE OF VB CORD** (3 mm x 300 mm)
- 6. PENCIL
- 7. PHONE OR CAMERA



















Click above to go to specific sections: 🎇

Preparation required before measuring

Before you begin, fill out your details in the boxes and select each sail type you are measuring for by ticking the boxes. Please keep all measurements in metres, to two decimal places (e.g. 12.54) and remember the old saying: 'measure twice, cut once!' Try to measure your boat in the morning on a still day. You may wish to have someone assist you.

First Name			
Surname			
Phone			
E-mail			
Brand/Model/Year			
HIN			
Vessel Name			
Sail types you are measuring for	Mainsail	Spinnaker	Headsail



PLEASE SUPPLY PHOTOS OF YOUR BOAT

Please take photos whenever you see this icon, as you work through the measuring process. Please identify your photos using the prefixes and letters as shown in the example here:

Headsail Section: (H-A, H-B, H-C etc) Mainsail Section: (M-A, M-B, M-C etc) **Spinnaker Section: (or Asymmetric)** (S-A, S-B, S-C etc)







HEADSAILS

Measuring your boat for a headsail

Tie a light line (6-8mm) as long as the height of the mast to the halyard clip/shackle. Attach the tape measure zero point ring to the same clip/shackle prior to hoisting so you can then pull it down without damaging or breaking the tape measure.

If there is a furling headsail on the furler, drop the headsail and leave on the deck for this exercise and re-hoist when measuring is complete. Leave the genoa halyard attached to the upper furling swivel. Then attach the light line to the zero point of the ring on your tape measure and clip the ring to the shackle on the lower side of the furling head swivel. This is the same shackle the head of the sail was attached to. Now pull to the top of the foretriangle until the head swivel and halyard is hard against the halyard sheave box. Then secure the halyard so you can pull down against the tape measure.

It is okay for the tape measure to wrap around the shrouds when measuring.

TACK/FURLER





Take photos of Head Swivel, Headfoil and Furler before beginning measuring, after you have dropped the Head Sail.

H-A

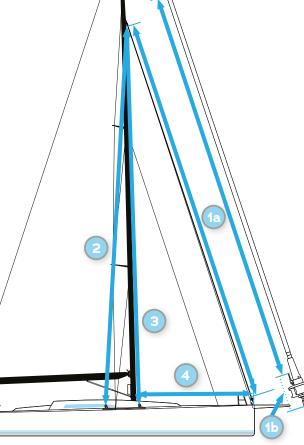
HEADFOIL, FURLER FOIL

H-C

H-C







If headfoil or hanked-on jib or genoa, complete 1 A. If RFG (roller furling jib or genoa), complete 1B

MAX SYSTEM HOIST

Measure down to tack shackle bearing point, with furler or with hanks.

Max Hoist

TACK TO DECK TACK/FURLER

Measure down from tack shackle bearing point on furling drum to forestay pin, or from tack shackle to deck with hanks.

Tack to Deck

MAX HOIST TO BACK END OF GENOA TRACK

Swing tape measure outside cap shrouds and measure to genoa car sheave at the maximum aft of the genoa track.

Genoa Back

MAX HOIST TO FRONT END OF GENOA TRACK

Swing tape measure outside cap shrouds and measure to genoa car sheave at the maximum forward point of the genoa track. (Drop tape measure and halyard to deck. Secure halyard).

Genoa Front

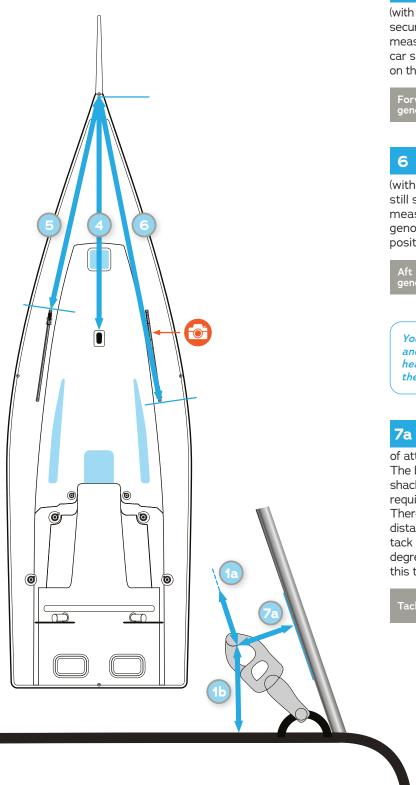
Attach tape measure to forestay pin (using the small piece of string) and measure horizontally aft to the front face of the mast at deck level. This will provide the datum point for the LP (luff perpendicular) for the percentage of overlap of the headsail.

J Meas

Headsails measurements continue next page









(with the tape measure zero point still secured to the forestay pin as per measurement 4), measure to the genoa car sheave in its forward-most position on the track.

Forward genoa track

6 MEASURE TO THE AFT END OF GENOA TRACK

(with the tape measure zero point still secured to the tack pin as per measurement 5), measure to the genoa car sheave in its aft-most position on the track.

Aft genoa track

You have now completed the max and minimum triangles for all headsails to sheet correctly with the rig and deck interface.

TACK SET BACK

All yachts have various ways of attaching headsails to the deck. The bearing point of where the genoa shackle is in relation to the forestay is required for the sail to set correctly. Therefore, we need to measure the distance aft of the bearing point of the tack shackle holding the shackle at 45 degrees relative to the forestay. We call this the **Tack Set Back**.

Tack Set Back

Headsails measurements continue next page

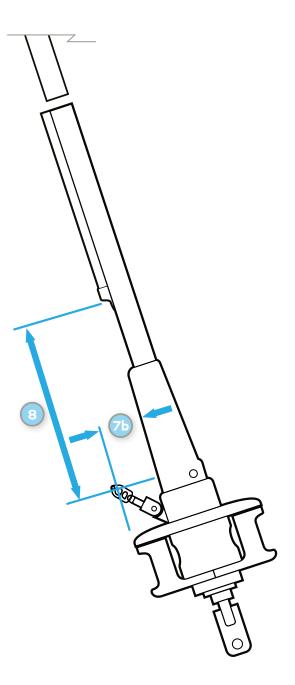












7b TACK SET BACK FOR FURLING HEADSAILS

Holding the shackle on the furling drum at 45 degrees, measure how far aft the bearing point of the shackle is relative to the aft face of the foil track. We call this the **Tack Set Back**.

Tack Set Back

TACK PIN TO FEEDER
(if you have hanks, this is not required) – For yachts with foils, this measurement allows the correct length of the luff tape.

Tack pin

9 WIRE DIAMETER MEASUREMENT

Wire Diameter measurement is required for hanks.

Wire #

10 LUFF TAPE MEASUREMENT

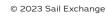
With your digital callipers or ruler, measure the diameter of the bolt rope on the luff tape of your existing headsail, then measure the X/Y of the foil and then record the brand and model of the headfoil.

Bolt rope diameter	
X/Y of the foil	
Brand	
Model	









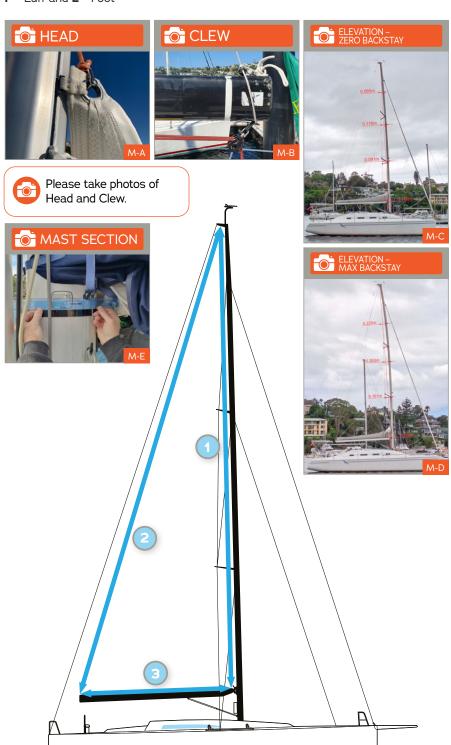
MAINSAILS

Measuring your boat for a mainsail

Tie a light line (6-8mm) as long as the height of the mast to the halyard clip/shackle. Attach the tape measure zero point ring to the same clip/shackle prior to hoisting so you can then pull it down without damaging or breaking the tape measure.

We will allow for the distance from max hoist and max outhaul to allow for the stretch.

P = Luff and E = Foot



- These measurements need to be exact for boats sailing under one design or racing rules.
- Also important is knowing the maximum measurements to allow for stretch and range.
- MAX HOIST THEAD

 Measure to tack pin at gooseneck.

Max Hoist

Generally all leech
measurements are with the boom at
90 degrees. However, if you have a
dodger or bimini then measure to the
outhaul car pin with the boom in its
normal position while sailing. (Drop tape
measure and halyard to deck. Secure halyard).

Max Leech

MAX FOOT
Measure from back of mast
to outhaul pin with outhaul max aft.
Don't measure from the tack pin or
the shackle as the back of the mast is
Datum 'O'.

Max Foot

MAX FOOT - BACKSTAY

Measure from Tack to Backstay
along the boom.

Backstay

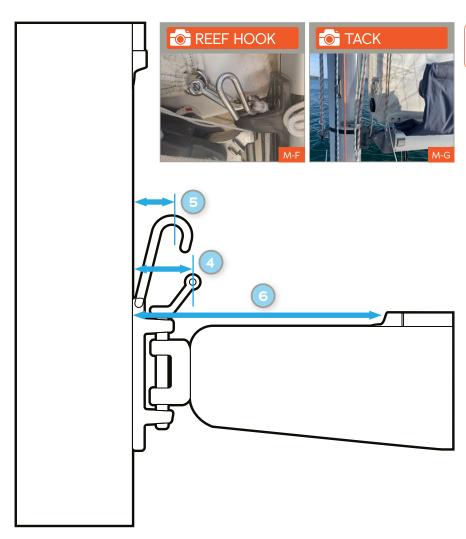
MAST SECTION
Measure fore & aft mast section
at gooseneck (see image M-E) to provide
a scale factor to determine mast bend
from supplied images M-C & M-D.

Mast Section

Mainsails measurements continue next page ▶









Please take photos of Gooseneck with Tack and Reef hook.

Measured from back of mast

TACK SET BACK TACK
Holding the shackle at the
goose neck at 45 degrees, measure
how far aft the bearing point of the
shackle is relative to the aft face of
the mast or external track. We call
this the Tack Set Back.

Tack Set Back

REEF HOOK AFT Holding the shackle or hook at the goose neck at 45 degrees, measure how far aft the bearing point of the shackle or hook is relative to the aft face of the mast.

Reef Hook Aft

5a SINGLE-LINE REEFING
Measure from the tack to the
first and second reef points on the main
sail.

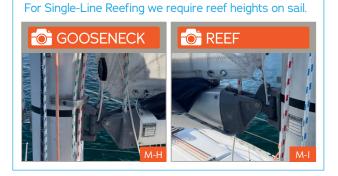
Reef 1 Height

Reef 2 Height

6 FOOT GROOVE AFT
Measure from the mast to where
the sail goes into the foot groove of the
boom (if your boat has foot groove).

Distance Aft

Mainsails measurements continue next page











Please take photos of the External Track and Luff Hardware. Please identify and supply the brand if possible.

LUFF TAPE OR SLIDE MEASUREMENT

For sail attachment to mast and boom. With your digital callipers or ruler, measure the diameter of the bolt rope on the luff tape of your existing mainsail. Alternatively, measure the external track of both the mast and boom.

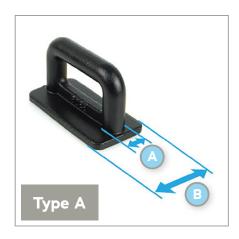
Luff Tape/Slide

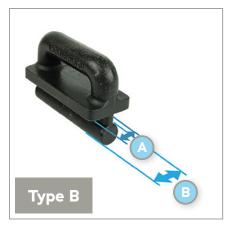


	Type A	Type B	Type C	Rope
Other (Specify)				
Bolt Rope Diameter				
A Width/diameter				
B Waist				

Full Foot Hardware FOOT HARDWARE

	Type A	Туре В	Type C	Rope
Other (Specify)				
Bolt Rope Diameter				
A Width/diameter				
B Waist				





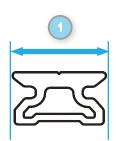


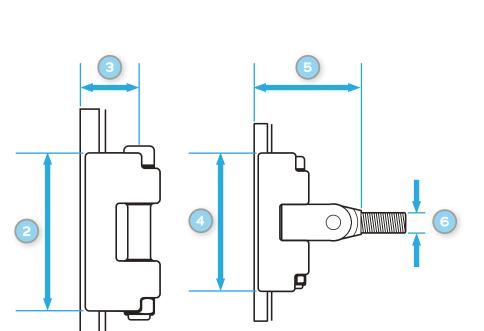
Mainsails measurements continue next page

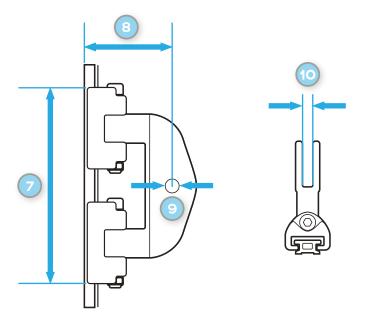


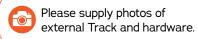












External Track System

We need to identify the brand and part number of the external track.

TRACK HARDWARE

- 1 Track Width
- 2 Intermediate car height
- Back of mast to centre pin
- 4 Batten car height
- Back of mast to thread stop
- 6 Thread
- 7 Headboard car height
- Back of mast to headboard
- 9 Headboard carriage pin diameter
- 10 Width of headboard carriage
- 11 Number of intermediate cars
- 12 Luff attachmen intermediate cars
- 13 Number of full batten cars
- Luff attachment at full batten







SPINNAKERS

Measuring your boat for an Asymmetrical, Symmetrical or Code Zero Spinnaker

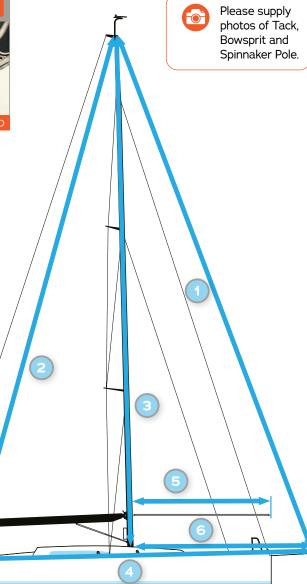
Tie a light line (6-8mm) as long as the height of the mast to the halyard clip/shackle. Attach the tape measure zero point ring to the same clip/shackle prior to hoisting so you can then pull it down without damaging or breaking the tape measure.











MAX HOIST BOWSPRIT/TACK POINT TO TACK PIN/SPIN POLE

Measure to tack point or tack line with tack clip max down in position on pole or bow. If measuring to clip out on pole and hard-to-reach place, tape measure in tack clip and pull tack line taut until it stops and then measure by pulling tape taut back to yourself on bow.

Max Hoist

AMAX LEECH SPINNAKER SHEET B
Swing the tape measure aft around spreaders and measure to spin sheet block aft near quarter.

Max Leech

While tape measure is in the same position as for points 1 and 2, measure to the deck sheer where deck meets hull. (Drop tape measure and halyard to deck. Secure halyard).

Mast Meas.

Attach tape measure zero point to tack line and pull out taught and measure a straight line (between the shrouds and the mast) back to spinnaker sheet block near aft quarter.

Max Foot

SPINNAKER SPINNAKER POLE
POLE LENGTH

Measure from front face of mast to the end of the spinnaker pole.

Spinnaker pole length

6 SPINNAKER TACK LENGTH Measure from tack point of stem or bow pole to front of mast.

Spinnaker tack length



X

When you have finished, save this PDF and attach it to an email after clicking below.

Click here when you are ready to submit your measurements

Alternatively, you can submit your documents manually to info@sailexchange.com.au



www.sailexchange.com.au + 61 (2) 9090 4949 info@sailexchange.com.au





