

Precision Sails Ltd Mainsail-Mizzen Measurement Form

Please fill out the appropriate sections as best you can. Precision Sails Ltd has a very large database of rig specs, so not every measurement is necessary to build a sail. **However, in order to design and build the best sail possible measurements from your boat are needed.** If you are not sure how to take a measurement or have questions about the form don't hesitate to call while your at the boat.

Client Information:

Order Number: _____	Sail Number: _____
Name: _____	Draft Stripe Colors: _____
Phone: _____	Year and Model: _____
Email: _____	Boat Make: _____

BEFORE YOU START

Photos:



To assist in designing the best sail possible for your boat we **request** that you submit photos of your boat. **Check off photos as you take them and attach them to the email when submitting your measurement form.**

Sliders

Side Profile of Boat with Mast

If it is impossible to get photos of you boat please attach any photos you already have. **Our designers may request you to re-measure or take a photo of a measurement if needed.**

Videos:

Tutorial Videos have been embedded in the form whenever the  symbol is shown. Simply click on the symbol and the video will load. Click  to view a measurement Play-list.

Things You'll Need:

Before heading to your boat and measuring make sure you have the following:

- Reeled Tape Measure
- Measurement Form
- Camera or Phone
- Calipers or Complete Drill Bit Set

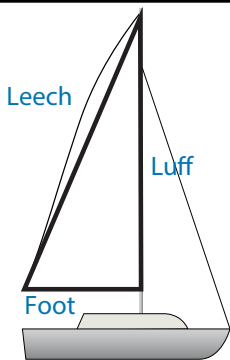
Standard Rig Measurements:

DO NOT FILL THIS SECTION FROM YOUR OWN MEASUREMENTS. PLEASE USE ACTUAL RIG SPECS FROM MANUAL, MANUFACTURER, INTERNET OR OTHER SOURCE. THESE WILL VARY SLIGHTLY FROM YOUR MEASUREMENTS WHICH YOU WILL TAKE LATER.

P. _____

E. _____

A. Measure Your Existing Mainsail:



1. Lay the sail out on a flat surface: Grass, driveway or parking lot.
2. When you measure your sail we only need straight-line measurements each point.
3. Sails stretch overtime. Do not try to account for stretch. This measurement is used as a guideline.
4. Do not try to measure any curves in the sail. We will take care of making the proper adjustments when we build your sail. Make sure to pull the sail taut before measuring.

Luff. _____ Measure the forward leading edge of your existing mainsail.

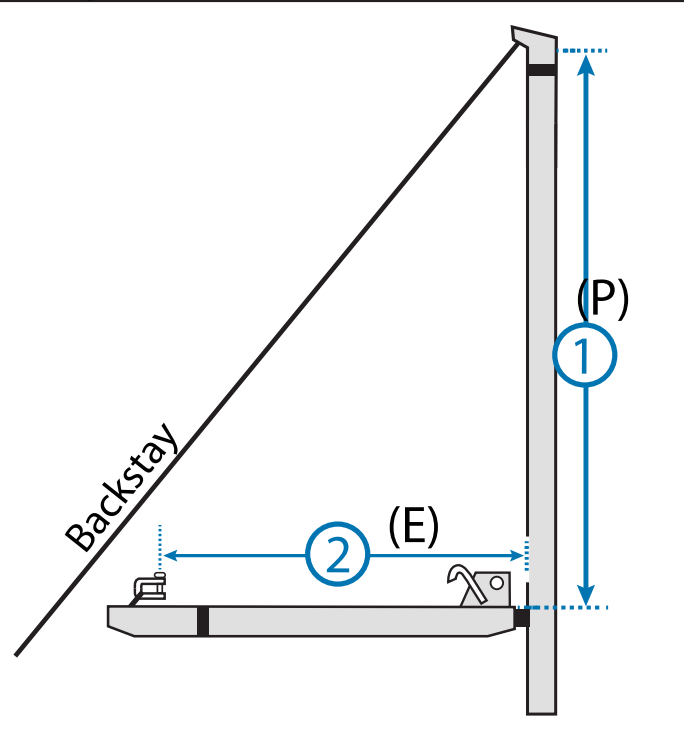
Leech. _____ Measure from the Head to the Clew in a straight line.

Foot. _____ Measure the bottom edge of your existing mainsail.

B. Video Tutorials

1. Click on the 📺 of each category to see a quick video on how to measure.
2. Click this 📺 for a measurement play-list

C. Rig Measurements



1. _____ **Maximum Hoist Length:** On main *halyard*, hoist a tape measure until it stops. Measure straight down along the mast to the **Top of the boom** at the **tack**. Disconnect Mainsail from Halyard. Be sure the boom is in the normal sailing position. (Equal or greater than rig spec)
2. _____ **Maximum Foot Length:** Measure from the **aft face** of the mast to the **shackle of the outhaul**. Make sure the outhaul is pulled back to its **tightest** position.

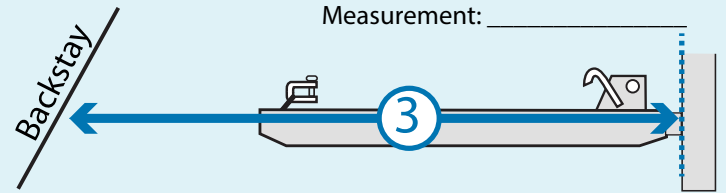
3. Backstay Position: Do You Have a Backstay?

No

Yes

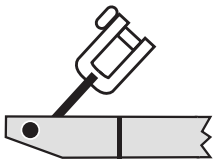
With Boom in normal sailing position, measure from aft face of **mast** to **backstay** horizontally at boom level.

Measurement: _____

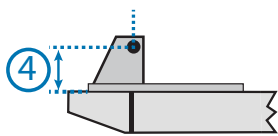


D. Outhaul Measurements

Shackle



Car Style

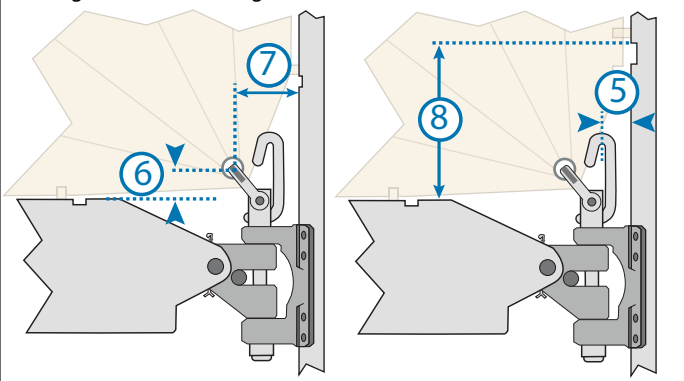


4. _____ **Outhaul Height:** Measure from the top of *boom* to bearing point of *out haul car*.

E. Connections

Bearing Point / Tack Fitting

Reef Hook, Luff Groove



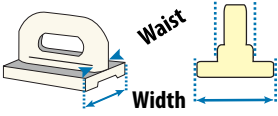
*****Tack Set Back / Up** and **Outhaul Height** are very important. If you do not provide these measurements a shackle may be required.

5. _____ **Reef Hook Set Back:** Measure from **Aft face of mast** to bearing point of **reef hook** (if any).
6. _____ **Tack Set Up:** Measure from **top of boom** to bearing point of **tack** fitting.
7. _____ **Tack Set Back:** Measure from aft face of **mast** to bearing point of the **tack** fitting.
8. _____ **Mast Groove:** Measure from the **top of boom** to the **top** of the **mast gate**.

F. Luff Configuration

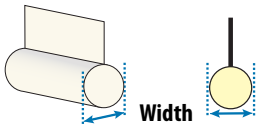
Please choose ONE Slider that will fit your Mast.

Flat Slider



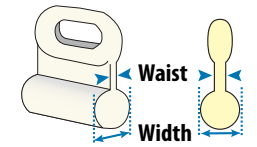
	Width		Waist	
F.	15.8mm	5/8"	6.8mm	1/4"
G.	19.0mm	3/4"	9.0mm	3/8"
H.	22.2mm	7/8"	11.0mm	
I.	Other - Specify		ther - Specify	

Bolt Rope (No Slides)



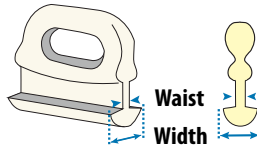
	Width
J.	6mm
K.	8mm
L.	9mm
M.	10mm 25/64"
N.	12mm 15/32"

Round Slider



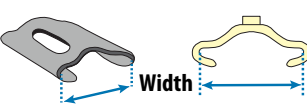
	Width		Waist	
A.	6.9mm	9/32"	2.5mm	3/32"
B.	7.9mm	5/16"	3mm	1/8"
C.	9.3mm	3/8"	3mm	1/8"
D.	12.5mm		3mm	1/8"
E.	Other - Specify		Other - Specify	

Half Round Slider



	Width		Waist	
O.	11mm	7/16"	3mm	1/8"
P.	14mm	9/16"	4mm	5/32"
Q.	15mm	19/32"	4mm	5/32"
R.	20mm	25/32"	8.5mm	11/32"
S.	Other - Specify		Other - Specify	

External Slider



	Width
T.	15.8mm
U.	22.2mm 7/8"
V.	25.1mm
W.	Other - Specify

Please provide from your existing sail:

1. **Waist of Slider:** _____

2. **Width of Slider:** _____

3. **Mast Slit Width:** _____

4. **Select Closest Slider from List:** _____

5. **Bolt Rope Diameter:** _____

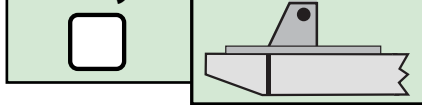
Zero Calipers before each measurement. If you do not have calipers please find a drill bit with a matching diameter.

G. Foot Configuration

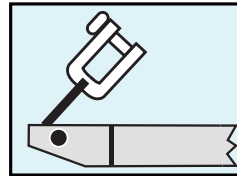
Choose your out-haul style and then provide foot details

I have a Clew Car and **DO NOT NEED** a Clew Slug

Car Style

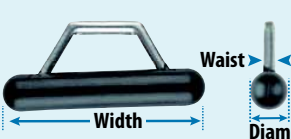


Or

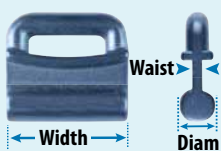


Shackle

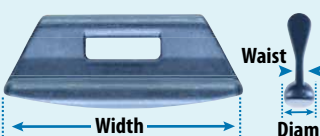
I have a Shackle, Line, or Purchase System and **REQUIRE** a Clew Slug



	Diameter		Waist		Width	
A.	8mm	5/16"	3mm	1/8"	50mm	2"
B.	9.3mm	3/8"	3mm	1/8"	50mm	2"
C.	12.5mm	1/2"	4mm	5/32"	75mm	3"



	Diameter		Waist		Width	
D.	8mm	5/16"	3.5mm	1/8"	37mm	1.44"
E.	8.6mm	3/8"	3.5mm	5/32"	37mm	1.44"
F.	11mm	7/16"	3.5mm	5/32"	37mm	1.44"



	Diameter		Waist		Width	
G.	8mm	5/16"	3mm	1/8"	50mm	2"
H.	9.3mm	3/8"	3mm	1/8"	50mm	2"
I.	12.5mm	1/2"	4mm	5/32"	75mm	3"

Clew Slug: _____

By Default your sail will come with a loose foot. This will make it easier to adjust your lower sail shape and is recommended.

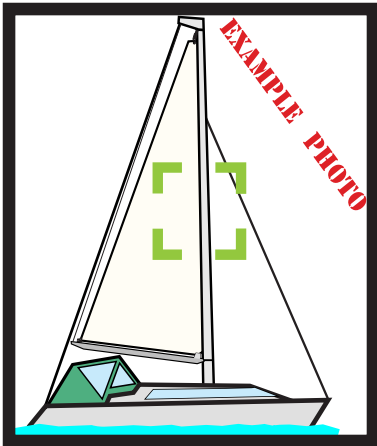
I Want a Fixed Foot (\$75 Extra)

I need the following sliders/Bolt Rope on my foot:

Sliders: _____

Bolt Rope: _____

H. Side Profile Photo 📷



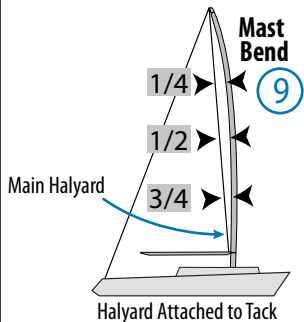
Photograph the side of your boat with boom in normal sailing position.

- ★ Your boom must be in the normal sailing position. It must show your Biminis, Dodger or anything else that causes your boom to sit at different tack angle than approximately 90° to the mast.
- ★ Make sure the Tack and Clew are visible.
- ★ Make sure the Top of the Boom is visible and uncovered.
- ★ Remove or fold the sail to the opposite side of the boom in your photo to ensure all above criteria are met.

Is your back stay adjustable? Yes No

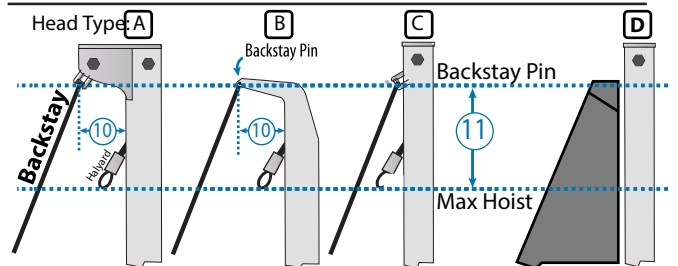
When you took the photo above, was the back stay tight or loose? Tight Loose

I. Mast Rake and Mast Bend



Only if you adjust Back-stay and mast is bendy. Usually Race Boats only. If unsure take a picture for our designers to see.

J. Top of Mast



9. Loose Backstay | Tight Backstay | **Mast Bend:**

- | | | |
|------------|-------|--|
| 1/4: _____ | _____ | 1. Tension backstay for appropriate conditions. |
| 1/2: _____ | _____ | 2. Attach main halyard to tack fitting and apply tension. |
| 3/4: _____ | _____ | 3. Using the mast width as a guide, estimate the distance between <i>mast</i> and <i>halyard</i> at 1/4, 1/2, and 3/4. <ul style="list-style-type: none"> a. Loose Backstay = Dock Set up with no sails. May=0 if no Pre-Bend. b. Tight Backstay = Set up for sailing with full load |

Head Type: A B C D

10. _____ **Crane Size:** Using the mast width as a guide, estimate the distance between the *aft face of the mast* and the *backstay top pin*.

11. _____ **Max Hoist to Backstay Pin:** Using the mast width as a guide, estimate the distance from the *halyard maximum* hoist position to the *Backstay Pin* at top of mast.

Additional Notes
