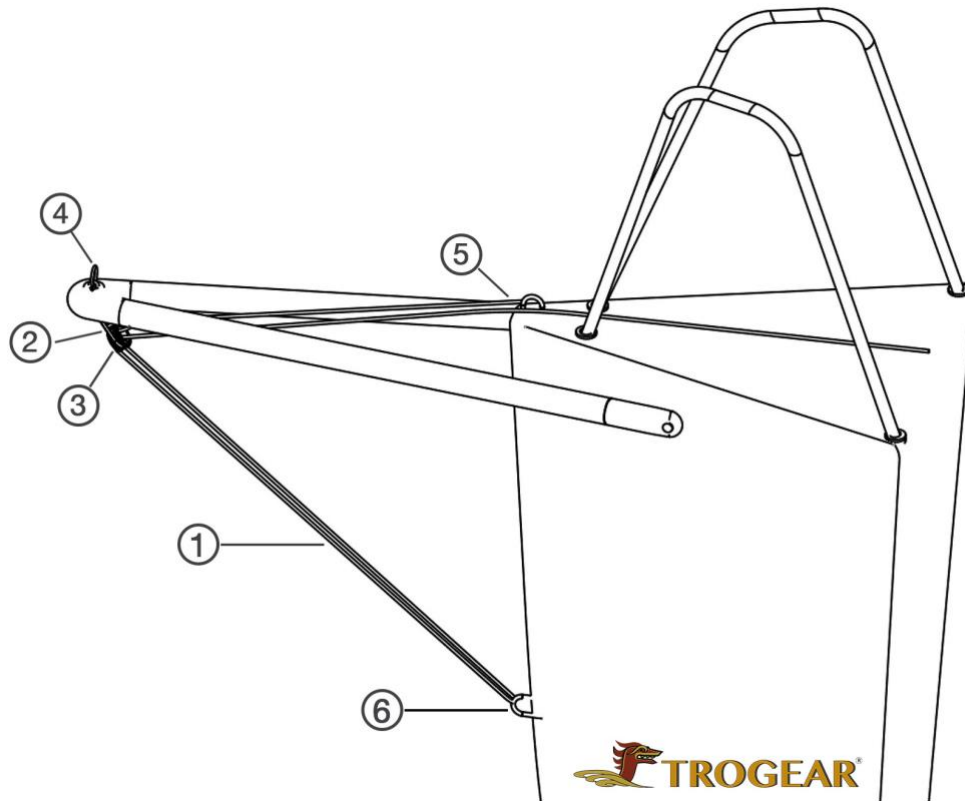


## 2:1 Adjustable Bobstay – a sample rigging diagram



1. Bobstay Dyneema - 2:1 purchase  
(Can have control line led through a clutch to a winch in the cockpit.)
2. Dyneema loop lead through the bowsprit bushing connects stainless steel ring (#4) and low friction ring (#3) **Note:** ONLY a Dyneema loop can be used through the bushing.
3. Low friction ring
4. Stainless steel ring for furler attachment or with block for tack line
5. Safety preventer from Dyneema
6. U Bolt (Could be G10 tube through hull depending on yacht)

**Warning!** The load generated by Code 0 or Asymmetrical spinnaker when reaching is high - therefore bobstay components need to be sized accordingly with a minimum safety factor of two. The bowsprit itself is designed for compression loads with a safety factor of 6, and it is actually preferable to rig the bobstay so that the compression forces on the bowsprit are added in the direction from the tip towards attachment.

### Tack and Bobstay Loads

A quick rule of thumb:

**Tack load** in kg = area in square meters X 5 or

Tack Load in lb = area in square feet

The assumption is that you will not be able to carry the Spinnaker or Code0 in apparent wind ranges that will exceed this load.

The second method is:

Tack load in kg = area in M<sup>2</sup> x wind velocity squared x.02104

**Bobstay Load** = Tack load X Tension factor (for 2:1 purchase, tension of control line will be 1/2 of the bobstay load)

**Tension factor** for bobstay angle with bowsprit  $\alpha$ : 30° = 2

35° = 1,74

40° = 1,56

45° = 1,41

50° = 1,31

