

Section A2 Booms - Complete

A2.1 Booms - Complete

Allyacht Spars produces a range of booms to suit most yachts. Whilst booms share a number of common features, each boom is customised to suit the requirements of the particular boat and rig. Following are specifications, a description of the features of standard booms, then upgrades that are available.

Specifications of Boom Sections

BOOM SECTION	MAX LENGTH (m)	SIZE (mm x mm)	AREA (mm ²)	MASS (kg/m)	I _{xx} (x10 ⁶ mm ⁴)	I _{yy} (x10 ⁶ mm ⁴)
AYB-130	4.7	130 x 98	1385	3.74	1.530	3.661
AYB-160	5.8	160 x 98	1696	4.60	2.155	6.083
AYB-190	6.4	190 x 121	1904	5.14	3.717	9.516
AYB-225	7.0	225 x 122	2464	6.57	4.788	17.335

Common Features

• Sections	Clear anodised aluminium
• Ends	The IBE (InBoard End) and OBE (OutBoard End) are both fabricated from aluminium and anodised. See Sections B15 and B16 for further detail.
• Mainsheet attachment	Two webbing straps are included, fixed into place to fit the requirements of the boat - see Section B18 for further details.
• Boom vang attachment	One Boom Vang Slider is fixed into place to fit the requirements of the boat - see Section B18 for further details.
• Outhaul	The outhaul is controlled by a 4:1 purchase system (3:1 on AYB-130) set up inside the boom section, using standard double braid line. The outhaul is attached to the clew of the mainsail utilising a webbing strap - see Section B18 for further details.
• Reefing	Booms are set up for slab reefing with two reefs fully installed, with sufficient reefing line to run from the boom to the deck and back to the cockpit. The third reef hardware is installed but without the reefing line.

Upgrades

• Single-line reefing (SLR)	SLR is a system which enables both the luff and leech of the mainsail to be reefed at the same time with a single reefing line. Note that this is for first and second reefs only.
• Lines to mast	Reefing and outhaul lines run to a mast winch (not included - needs to be ordered separately), with jammers on the boom for securing lines.
• Spectra lines	All lines on the boom, ie. outhaul and reefing lines, are upgraded to spectra (high-strength / low-stretch).
• Third reef	Reefing line is added - note that fittings inc. sheaves are already included with the standard boom (consequently third reef can be added at any time).

<u>Part Numbers</u>				
<i>Boom Section></i>	AYB-130	AYB-160	AYB-190	AYB-225
	----- PART NO. -----			
<u>Standard boom - fully assembled</u> Features: <ul style="list-style-type: none"> - Two slab reefs - Lines to deck - Double-braid lines - Third reef hardware (no line) 	AYB-130-10	AYB-160-10	AYB-190-10	AYB-225-10
<u>Upgrades</u>				
SLR (single-line reefing) kit	AYB-130-20	AYB-130-20	AYB-130-20	AYB-130-20
Lines to mast	AYB-130-30	AYB-130-30	AYB-130-30	AYB-130-30
Spectra lines <u>EITHER:</u> 1. Spectra - slab reefing & lines to deck (ie. standard boom)	AYB-130-40	AYB-130-40	AYB-130-40	AYB-130-40
<u>OR</u> 2. Spectra - slab reefing & lines to mast	AYB-130-50	AYB-130-50	AYB-130-50	AYB-130-50
<u>OR</u> 3. Spectra - SLR & lines to deck	AYB-130-60	AYB-130-60	AYB-130-60	AYB-130-60
<u>OR</u> 4. Spectra - SLR & lines to mast	AYB-130-70	AYB-130-70	AYB-130-70	AYB-130-70
Third reef line	Dependent on specifications of boom and boat. Consult with an AYS representative.			

A2.2 Booms - Customised

Allyacht Spars Australia utilises selected mast sections from the Allyacht Spars range to manufacture booms that are customised to suit a particular boat's requirements. Booms are suitable for slab reefing systems, and can be adapted for lines to be secured on the boom or led to the mast or deck. The boom section and all alloy components are fully anodised no matter which level of assembly is chosen.

Variations Booms are usually supplied Fully Assembled, but may also be supplied as a Kit.

Fully Assembled Ready for use

Holes-cut Kit Boom section cut and drilled, then anodised, and all components provided

Ordering When ordering an Allyacht Spars Boom, please specify the following:

1 Vang Lug	Yes / No (see Section B19)
2 Clutches	Preferred no. of clutches (limited by OBE size - see Section B16)
3 Mainsheet strap	One / Two / Three
4 Outhaul	Standard 1:1 / Purchase system
5 Reefs	Preferred no. of reefs (limited by OBE size - see Section B16)
6 Assembly level	Fully assembled / Holes-cut Kit