

Section B7 Mast Bases


Mast Bases comprise a Heel Plug sized to suit the Allyacht Spars Australia range of mast sections, and in some cases, a Deck Plate also. Heel Plugs and Deck Plates are cast or fabricated from high-grade aluminium alloy, and are fully anodised for corrosion resistance.

The Mast Base is usually fixed to the deck or keelson prior to stepping the mast. It is imperative to use a suitable sealant between components to minimize corrosion (ie. between Heel Plug and mast section, and between Heel Plug and Deck Plate if used). Note that Safety Regulations may require the mast section to be firmly secured to the boat (ie. mast section secured to Heel Plug and Heel Plug in turn secured to keelson or deck). Please refer to relevant Safety Regulations for further details.

Fitting: Note that a reasonable level of competence may be required for fitting components. Whilst Allyacht Spars Australia endeavours to provide suitable instructions where required, it remains the sole responsibility of the purchaser to ensure that items are fitted safely and effectively.

B7.1 Heel Plugs

Heel Plugs provide a firm footing for the mast section to sit on. In addition to anodising, they are protected by a synthetic coating. On deck-stepped boats, they may be used in conjunction with a Deck Plate.

	MAST SIZE	HEEL PLUG PART NO.
	IM12L	007.121L.A
	IM135	007.136.A
	IM15	007.151.A
	IM16L	007.161L.A
	IM18L	007.181L.A
	IM18R	007.181R.A
	IM19	007.191.A
	IM20	007.201.A
	IM20W	007.201W.A
	IM21R	007.211.A
	IM22W	007.221W.A
	AYS235	007.236.A
	AYS250	007.251.A
	AYS280	007.281.A
	AYS310	007.311.A

B7.2 Deck Plates - Standard

Deck Plates provide attachment points for turning blocks on deck-stepped boats, which enables halyards, reefing lines and other control lines to exit the mast and boom, then to be led to the deck and back to the cockpit. The standard Deck Plate includes 10 attachment points for turning blocks (turning blocks must be ordered separately – see B27.4). Allyacht Spars Australia uses the Pinned style, in which each attachment point is a vertically-standing stainless steel pin with a hole to accommodate the clevis pin from the turning block. This allows each turning block to angle and rotate to the optimal position for the line that it is controlling.

The standard Deck Plate is of the dimensions shown below, with a hole in each corner for fixing to the deck, and four holes and fastenings to fit the Heel Plug to the Deck Plate. Note that the Heel Plug must be ordered separately.

Variations:


Dimensions	Any changes to the standard dimensions or hole placements will require customisation of the Deck Plate, incurring additional manufacturing time.
Halyard Bail	Attachment point on Deck Plate forward of the mast (fabricated from alloy rod), for clipping unused halyards – must be ordered as an Extra if required.

	MAST SIZE	DECK PLATE PINNED PART NO.	DIMENSIONS fore/aft x pt/stbd mm
Photo to be added See Section 5.1 Deck Collars for picture showing attachment points for turning blocks	IM12 IM135 IM15	007.155P	280 x 240
	IM16L IM18L IM18R IM19	007.195P	310 x 270
	IM20 IM20W IM21R IM22W	007.225P	340 x 300
	AYS235 AYS250	007.255P	360 x 325
	AYS280 AYS310	007.315P	400 x 350

B7.3 Mast Base Adjustor

Mast Base Adjustors are designed for keel-stepped masts, usually used on racing yachts. Slotted fastening holes allow the bottom of the mast to be moved fore-and-aft, enabling alteration of mast rake, or inducing pre-bend in the lower panel of the mast. The Mast Base Adjustor is an addition to the Heel Plug which must be ordered separately.

Variations: Any changes to the standard dimensions or hole placements will require customisation of the Deck Plate, incurring additional manufacturing time.

MAST SIZE	PART NO.	
IM12L IM135 IM15	007.152	
IM16L IM18R IM18L IM19	007.192	
IM20 IM20W IM21R IM22 IM22W	007.222	
AYS235 AYS250 AYS280 AYS310	007.262	

B7.4 Deck Plates - With Built-in Sheaves (for internal halyards)

These Deck Plates suit deck-stepped boats where internal halyards and other control lines exit the mast at deck level. This is an alternative to using a standard Deck Plate with turning blocks, and is only suitable for halyards/control lines that will not be ‘bounced’ at the mast (ie. pulled by hand from the exit slot on the mast). The Deck Plate has a hole in each corner for fixing to the deck, and four holes and fastenings to fit the Heel Plug to the Deck Plate. Note that the Heel Plug must be ordered separately.

Variations: Every Deck Plate with built-in sheaves is designed individually, customised to suit the particular situation.

SUIT MAST SIZE	DECK PLATE 4-SHEAVE PART NO.	DECK PLATE 6-SHEAVE PART NO.
IM12L	007.124	007.127
IM135	007.139	007.142
IM15	007.154	007.157
IM16L	007.164	007.167
IM18L IM18R	007.184	007.187
IM19	007.194	007.197
IM20W IM21R	007.204	007.207
IM22W	007.224	007.227
AYS235 AYS250 AYS280 AYS310	Available on request	Available on request

B7.5 Mast Bases - Rotating Mast

Mast Bases for rotating masts are designed specifically for Allyacht Spars masts, with wing masts being the usual choice when a rotating mast is required. For other mast sections being set up to rotate, a base is either available as indicated below, or can be made to suit.

The Mast Base comprises all components required to fit to a flat deck, including the rotation unit (ball and cup), heel plug for the mast, a simple integral rotation spanner, and a flat base.

Variations:

- Dimensions** Any changes to the standard dimensions or hole placements will require customisation of the Deck Plate, incurring additional manufacturing time.
- Stepping surface** If the stepping surface is not flat eg. mast stepped on the crossbeam, a customised stepping platform will need to be designed and built specifically to suit that surface.

SUIT MAST SIZE	ROTATING BASE PART NO.	DIMENSIONS fore/aft x pt/stbd mm
IM12L IM135 IM15	Available on request	
IM16L IM18L IM18R IM19 IM20W	007.16-20	
IM21R IM22W	007.21R-24	
AYS235 AYS250	007.2358	
AYS280 AYS310	Available on request	
AYS-200WING	007.2008	
AYS-250WING	007.2508	
AYS-300WING	007.3008	
AYS-350WING	007.3508	

B7.6 Trailer Sailer Mast Bases

PART NO.	DESCRIPTION	TO SUIT PART NO.
007.R780-BASE	Ross 780 Deck Plate with slot	007.R780-HEEL
007.R780-HEEL	Ross 780 Heel Plug with fixed pin	007.R780-BASE
007.R780-BASE.CP	Ross 780 Deck Plate with hole	007.R780-HEEL.CP
007.R780-HEEL.CP	Ross 780 Heel Plug with hole & pin	007.R780-BASE.CP



B7.7 Mast Base Components

COMPONENT	PART NO.	
Rotation Spanner small	007.SPAN.SML	 <p>Rotation Ball and Cup large</p>
Rotation Spanner large	007.SPAN.LGE	
Rotation Ball small	007.ROTBALL.SML	
Rotation Ball large	007.ROTBALL.LGE	
Rotation Cup small	007.ROTCUP.SML	
Rotation Cup large	007.ROTCUP.LGE	