



Introduction

Welcome to the 2011 edition of the Classic Marine catalogue which has had a gestation period about twice as long as an elephant. Despite the same visual style as its predecessors, it incorporates a good number of new things.

That reflects our recent move into much larger premises. Please don't be fooled by the "Industrial Park" part of the address - a slightly tumbledown shed in the middle of a pig farm might give a more accurate impression. That aside, the extra space has enabled more machinery and people in the workshop, which in turn has meant greater capability and a wider range of products.

- Perhaps the most significant is that we now offer most "standard" fabrications in Stainless Steel and bronze where previously they were offered only in galvanised.
- Of course that also means that we are able to offer custom fabrication in Stainless as well.
- Continuing the idea of development, we now stock Dyneema® rope. I know this has usually appeared in lurid colours, but we have had some made to look right. Have a look at the website for a view on how it might apply to classic boats. That is very much a work in progress as I get experience of the stuff on my own and other traditional boats
- On to more traditional items, there is a new range of wooden blocks on page 15 - varnished elm with bronze bindings. Real top-of-the-range items.
- New items since the last edition have been indicated with a blue background (grey for those of you in black-and-white!), and you can see that we continue to evolve on a wide range of fronts.
- There are also some items whose producers have fallen victim to the current hard times. In some case - hatch hinges etc - we are working on making replacements. In others (lamp glasses is a case in point) we are stuck.

I'm also going to try to use modern printing services to let this catalogue evolve continuously in tandem with the website, rather than to have this great lurch from one edition to the next. Fear not, though - there will always be a paper copy available one way or another. And I'll carry on trying to provide a bit more than just a list of parts and prices in the catalogue, and particularly on the website.

Likewise, buying on-line is proving increasingly popular. But there are still real people here at Woodbridge to answer questions and take orders! Meanwhile, I hope you enjoy this new catalogue, and would very much appreciate your comments on it. Happy browsing!

December 2010

.....and in 2011 we celebrate our 20th birthday!

And who do we have to thank for that? You, the customers, of course.

(Cover picture is "Tenby Harbour" by Claudia Myatt - see claudiamyatt.co.uk for more of her work)



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Saddles & Jaws

In the good old days when gaffs lay at an angle of 45 or so degrees to the mast, the prime function of the gaff saddle or jaws was to accommodate the thrust of the gaff on the mast, and stop the thing falling off sideways. If you wanted to improve windward performance, you set a topsail. “Modern” gaffers tend to peak the gaff up higher but as you do so two things happen.

Firstly, there is an increasing twisting force which comes from the gaff falling off to leeward. Imagine a gaff set at right angles to the mast. There would be no twisting moment - it would merely swivel around the mast - but there would be a force along the gaff. At the other extreme is a gunter yard, set parallel to the mast. There is not much load down the yard, but lots of sideways twisting as the sail is loaded up.

For smaller boats up to say 1 tonne displacement, you can use jaws. Quite often these are made from wood, and all too often not strong enough, or too bulky. So we offer a range for both gaff and gunter yards in both bronze and stainless.

Gunter & Gaff Jaws

Gunter Jaws - Leathered

Mast Dia (mm)	Bronze	Stainless
50	RG-2004	RG-3004
65	RG-2005	RG-3005
75	RG-2006	RG-3006
85	RG-2007	RG-3007



Gaff Jaws - Leathered

Mast Dia (mm)	Bronze	Stainless
50	RG-2014	RG-3014
65	RG-2015	RG-3015
75	RG-2016	RG-3016
85	RG-2017	RG-3017

Gunter and Gaff jaws are made to order, so please let us know the dimensions of the yard when ordering.

Saddles

For larger boats, saddles tend to be used. There is no well-defined rule, but 6m length and /or 1 tonne is about the crossover. Wooden jaws tend to work less well on a high-peaked gaff since they can't cope well with the twisting force trying to open the jaws. Also the traditional shape of metal gaff saddle can try to wind its way off the mast if used for a high-peaked gaff, so causing at least as many problems as it is solving. Another result of the move to higher peak angles is that you very quickly run out of space to fit the throat halyard loop or stirrup. Possible solutions are to fit a halyard attachment to the back of the saddle (not ideal), or to use a wire strop to move the lower throat block up the mast until there is room for it.

All this explains why we have ended up with a family of gaff and gunter saddles based on three shapes of saddle, and various methods of halyard attachment, as shown in the picture opposite. To piece together a gaff saddle assembly, you need 3 components, namely the saddle itself, the gaff end fitting and the pieces which connect them. Follow the steps outlined opposite.





Piecing together a Gaff Saddle assembly - part 1

1. The peak angle identifies which range of saddle to choose from in the table below
2. The mast diameter identifies the size of saddle—if the mast is parallel, that is easy; if it is tapered, please let us know the diameters at gooseneck and at the height where the saddle will normally be, and we can advise which one will be best.
3. Choose the material. In this context I should say that while you can have a bronze saddle, the ones made from stainless or galvanised steel are lighter and stiffer. But it is your boat.
4. Go to the next page to choose the spar end

Table 1 - Gaff Saddles

Conventional - Peak Angle more than 40°

Mast Dia	Galvanised	Bronze	Stainless
75	RG-1720	RG-2720	RG-3720
90	RG-1721	RG-2721	RG-3721
105	RG-1722	RG-2722	RG-3722
120	RG-1723	RG-2723	RG-3723
140	RG-1724	RG-2724	RG-3724
160	RG-1725	RG-2725	RG-3725
180	RG-1726	RG-2726	RG-3726
200	RG-1727	RG-2727	RG-3727

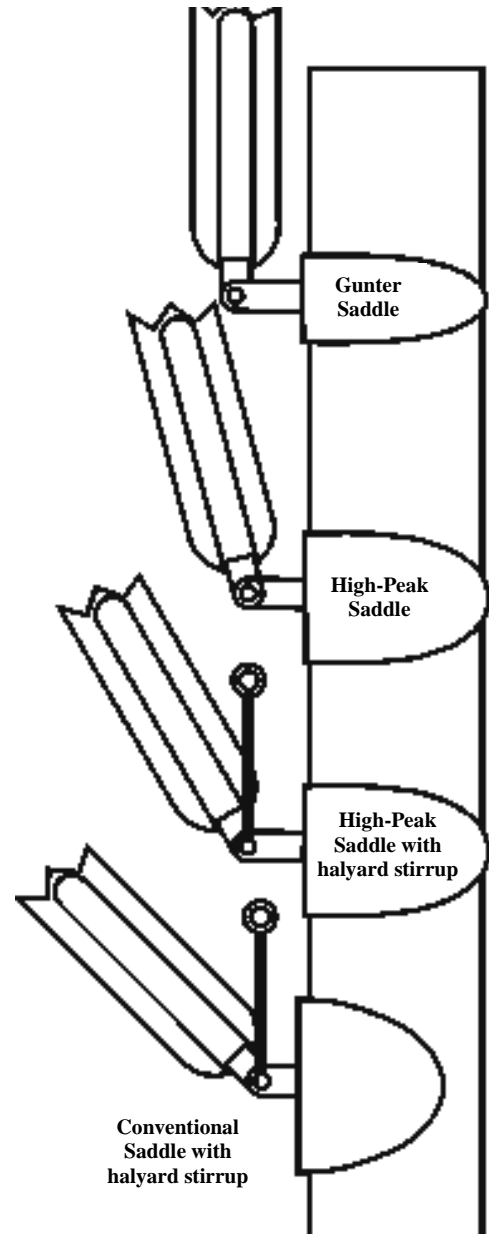
High Peak - Peak Angle less than 40°

Mast Dia	Galvanised	Bronze	Stainless
75	RG-1740	RG-2740	RG-3740
90	RG-1741	RG-2741	RG-3741
105	RG-1742	RG-2742	RG-3742
120	RG-1743	RG-2743	RG-3743
140	RG-1744	RG-2744	RG-3744
160	RG-1745	RG-2745	RG-3745
180	RG-1746	RG-2746	RG-3746
200	RG-1747	RG-2747	RG-3747

Gunter - Peak Angle less than 10°

Mast Dia	Galvanised	Bronze	Stainless
75	RG-1760	RG-2760	RG-3760
90	RG-1761	RG-2761	RG-3761
105	RG-1762	RG-2762	RG-3762
120	RG-1763	RG-2763	RG-3763

Saddles can be made to fit your existing fittings if required





Gaff End Fittings

Gaff End Fittings - Cast Bronze (mm diameters are accurate, inches nominal)



Cast Bronze End Fitting

Width -		Width - inside		Length		Part No
inch	mm	mm	inch	mm	inch	
1¾	44	30	1 ¹ / ₈	133	5¼	RG-1027
2	51	39	1½	153	6	RG-1028
2½	62	51	2	190	7½	RG-1029
3	75	61	2 ³ / ₈	223	8¾	RG-1030
3½	87	66	2 ⁵ / ₈	262	10¼	RG-1033
4	100	77	3	295	11 ⁵ / ₈	RG-1031
4½	112	86	3 ³ / ₈	338	13¼	RG-1034
5	125	100	4	374	14¾	RG-1032
6	149	115	4½	448	17 ⁵ / ₈	RG-1036
6½	162	125	4 ⁷ / ₈	488	19¼	RG-1037

The bronze gaff ends are cast, and designed to be cut into the end of a circular gaff. The defining measurement (in other words the one used to describe the spar end) is the outside diameter. These can work on rectangular gaffs, but it may be better to fabricate one to suit for you

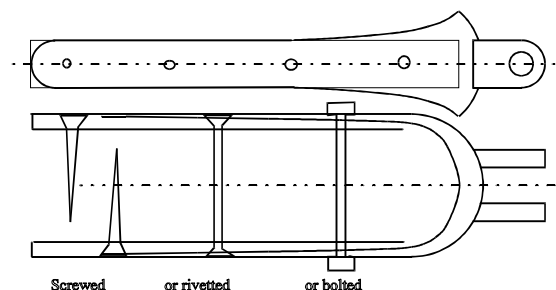
Fabricated Gaff End Fittings - Stainless & Galvanised



Fabricated End Fitting in galvanised steel

Width -		Width - inside		Length		Part No	Part No
mm	inch	mm	inch	mm	inch	Stainless	Galvanised
45	1¾"	39	1½"	135	5 ³ / ₈ "	RG-3800	RG-1800
55	2 ¹ / ₈ "	49	1 ⁷ / ₈ "	165	6½"	RG-3801	RG-1801
65	2½"	55	2 ¹ / ₈ "	195	7¾"	RG-3802	RG-1802
75	3"	65	2½"	225	9"	RG-3803	RG-1803
85	3 ³ / ₈ "	73	2 ⁷ / ₈ "	255	10"	RG-3804	RG-1804
100	4"	88	3½"	300	11¾"	RG-3805	RG-1805
115	4½"	99	4"	345	13 ⁵ / ₈ "	RG-3806	RG-1806
130	5 ¹ / ₈ "	114	4½"	390	15 ³ / ₈ "	RG-3807	RG-1807
145	5¾"	125	5"	435	17 ¹ / ₈ "	RG-3808	RG-1808
160	6 ³ / ₈ "	140	5 ⁵ / ₈ "	480	19"	RG-3809	RG-1809

The defining measurement (in other words the one used to describe the gaff end) of the fabricated gaff ends is the outside diameter of the circular gaff they would fit onto. If you have a rectangular gaff, then the inside measurement would be the better start point. In any event they are made to order so different end shapes and tapers can be accommodated





Piecing together a Gaff Saddle assembly - part 2

1. Choose the material of the gaff end, based on the choice of saddle material - see Table 2 below
2. Based on that, and the shape of the gaff end, select the appropriate gaff end from the items listed on the opposite page - see the notes below each table for sizing.
3. On the basis of the gaff end selection and the peak angle, choose the relevant bits to connect the saddle to the gaff end.
4. Or call us on +44 1394 380390 and we can help!

Table 2 - Possible combinations		Saddle		
		Galv	SS	Bronze
Gaff End	Galv	OK		
	SS	OK	OK	
	Bronze	OK	OK	OK

Halyard/Sail Attachments - Bronze

Gaff Dia	To fit Gaff End	With Stirrup	No stirrup
1¾	RG-1027	RG-1850	RG-1840
2	RG-1028	RG-1851	RG-1841
2½	RG-1029	RG-1852	RG-1842
3	RG-1030	RG-1853	RG-1843
3½	RG-1033	RG-1854	RG-1844
4	RG-1031	RG-1855	RG-1845
4½	RG-1034	RG-1856	RG-1846



Halyard/Sail Attachments - Stainless

Gaff Dia	To fit Gaff End	With Stirrup	No stirrup
45	RG-3800	RG-3780	RG-3790
55	RG-3801	RG-3781	RG-3791
65	RG-3802	RG-3782	RG-3792
75	RG-3803	RG-3783	RG-3793
85	RG-3804	RG-3784	RG-3794
100	RG-3805	RG-3785	RG-3795

Halyard/Sail Attachments - Galvanised

Gaff Dia (mm)	To fit Gaff End	With Stirrup	No stirrup
45	RG-1800	RG-1780	RG-1790
55	RG-1801	RG-1781	RG-1791
65	RG-1802	RG-1782	RG-1792
75	RG-1803	RG-1783	RG-1793
85	RG-1804	RG-1784	RG-1794
100	RG-1805	RG-1785	RG-1795



Boom End Fittings

The bronze boom ends are cast, and designed to be cut into the end of a circular boom. The defining measurement (in other words the one used to describe the boom end) is the outside diameter. These can work on rectangular booms, but it may be better to fabricate one to suit for you

The defining measurement (in other words the one used to describe the boom end) of the fabricated boom ends is the outside diameter of the circular boom they would fit onto. If you have a rectangular boom, then the inside measurement would be the better start point. In any event they are made to order so different end shapes and tapers can be accommodated



Tack & Hook Fitting

Tack & Hook fittings are designed to fit into a gooseneck assembly. The cross bolt of the gooseneck passes through the lower holes in the plates. The tack of the sail fits between the upper holes of the plates, and, when reefing, the luff cringle(s) hook over the side hooks. On some craft an alternative is to make one hook into a loop, with short reef pennants made up permanently there. On reefing these are passed through the sail cringle onto the hook on the other side of the fitting.

Boom End Fittings - Cast Bronze (mm diameters are accurate, inches nominal)

Width -		Width - inside		Length		Part No
inch	mm	mm	inch	mm	inch	
1¾	44	30	1 ¹ / ₈	133	5¼	RG-1027
2	51	39	1½	153	6	RG-1028
2½	62	51	2	190	7½	RG-1029
3	75	61	2 ³ / ₈	223	8¾	RG-1030
3½	87	66	2 ⁵ / ₈	262	10¼	RG-1033
4	100	77	3	295	11 ⁵ / ₈	RG-1031
4½	112	86	3 ³ / ₈	338	13¼	RG-1034
5	125	100	4	374	14¾	RG-1032
6	149	115	4½	448	17 ⁵ / ₈	RG-1036
6½	162	125	4 ⁷ / ₈	488	19¼	RG-1037

Fabricated Boom End Fittings - Stainless & Galvanised

Width -		Width - inside		Length		Part No	Part No
mm	inch	mm	inch	mm	inch	Stainless	Galvanised
45	1¾"	39	1½"	135	5 ³ / ₈ "	RG-3800	RG-1800
55	2 ¹ / ₈ "	49	1 ⁷ / ₈ "	165	6½"	RG-3801	RG-1801
65	2½"	55	2 ¹ / ₈ "	195	7¾"	RG-3802	RG-1802
75	3"	65	2½"	225	9"	RG-3803	RG-1803
85	3 ³ / ₈ "	73	2 ⁷ / ₈ "	255	10"	RG-3804	RG-1804
100	4"	88	3½"	300	11¾"	RG-3805	RG-1805
115	4½"	99	4"	345	13 ⁵ / ₈ "	RG-3806	RG-1806
130	5 ¹ / ₈ "	114	4½"	390	15 ³ / ₈ "	RG-3807	RG-1807
145	5¾"	125	5"	435	17 ¹ / ₈ "	RG-3808	RG-1808
160	6 ³ / ₈ "	140	5 ⁵ / ₈ "	480	19"	RG-3809	RG-1809

Tack/Hook fittings

Bronze		Stainless & Galvanised		
Boom Part	Tack/Hook	Boom Part	Part No	Part No
RG-1027	RG-1830	RG-x800	RG-3820	RG-1820
RG-1028	RG-1831	RG-x801	RG-3821	RG-1821
RG-1029	RG-1832	RG-x802	RG-3822	RG-1822
RG-1030	RG-1833	RG-x803	RG-3823	RG-1823
RG-1033	RG-1834	RG-x804	RG-3824	RG-1824
RG-1031	RG-1835	RG-x805	RG-3825	RG-1825
RG-1032	RG-1836	RG-x806	RG-3826	RG-1826
		RG-x807	RG-3827	RG-1827
		RG-x808	RG-3828	RG-1828
		RG-x809	RG-3829	RG-1829



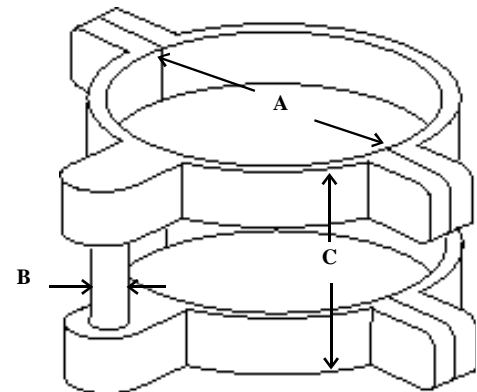
Standard mast ring assemblies - bronze

(mm diameters are accurate, inches nominal)

Mast Diameter (A)		Pin Size	Height (C)		Part No
mm	inch	mm	mm		
62	2½	10	55		RG-0026
72	3	10	55		RG-0027
80	3¼	10	60		RG-0028
87	3½	12	60		RG-0029
97	4	12	75		RG-0030
112	4½	12	80		RG-0031
124	5	12	90		RG-0032
138	5½	16	92		RG-0033
150	6	16	95		RG-0034
162	6½	16	100		RG-0035
175	7	19	110		RG-0036
189	7½	19	120		RG-0037
202	8	19	125		RG-0038
212	8½	25	130		RG-0039
228	9	25	135		RG-0040
254	10	25	145		RG-0042
270	10⅝	25	150		RG-0043

Piecing together a gooseneck assembly

1. Choose your material
2. From mast diameter, choose the mast ring assembly.
3. From the boom diameter choose the boom end - see notes in the sidebars of the page opposite for guidance on sizing.
4. If required (it is an optional piece) add a Tack/hook fitting
5. Or call +44 (0)1394 380390 and we can help!



Standard Assembly

Note that the 2½" assembly is two half bands screwed to the mast .

Standard mast ring assemblies -

Mast	Pin Size	Total Height	Part No	
			Stainless	Galvanised
75	10	60	RG-3940	RG-1940
90	12	80	RG-3941	RG-1941
105	12	90	RG-3942	RG-1942
120	16	96	RG-3943	RG-1943
140	16	115	RG-3944	RG-1944
160	20	130	RG-3945	RG-1945
180	20	150	RG-3946	RG-1946
200	24	165	RG-3947	RG-1947
220	24	175	RG-3948	RG-1948



Complete Assembly -
Bronze
With cleats on upper band



Complete Assembly -
Galvanised

These are all made to order, so different sizes and shapes of masts can be accommodated. Halyard cleats can also be incorporated if required. Please discuss your requirements.



Bowsprit Fittings



Crane Irons - bronze

Inner Diameter	65 mm (2 1/2")	75 mm (3")	90 mm (3 1/2")
Outer Diameter	85 mm (3 3/8")	95 mm (3 3/4")	115 mm (4 1/2")
Length	65 mm (2 1/2")	75 mm (3")	90 mm (3 1/2")
Holes in lugs	8 mm (5/16")	10 mm (3/8")	13 mm (1/2")
Break load (kg)	4000	5700	10200
Part number	RG-0002	RG-0004	RG-0006

For different sizes or configurations, please ask for a quote.



Bobstay fittings - bronze

Part Number	RG-0090		RG-0092		RG-0094	
mm	mm	inch	mm	inch	mm	inch
Length overall	137	5 1/2"	161	6 1/2"	190	7 1/2"
Width of flat	30	1 1/4"	40	1 1/2"	45	1 3/4"
Main body depth	16	5/8"	19	3/4"	22	7/8"
Lug Thickness	8	5/16"	11	7/16"	15	5/8"
Lug Hole	10	3/8"	13	1/2"	16	5/8"
Fasteners	2 x 3/8" or M10		2 x 1/2" or M12		2 x 5/8" or 2 x M16	
Break load (kg)	4800		8800		13200	

The idea is that you thread these in from the back to give a neat strong fitting



Bowsprit traveller with hook

Bowsprit Travellers - leathered

Bowsprit Diameter (mm)	Bronze		Stainless		Galvanised	
	with	with	with	with	with	with
50	RG-2900	RG-2920	RG-3900	RG-3920	RG-1900	RG-1920
60	RG-2901	RG-2921	RG-3901	RG-3921	RG-1901	RG-1921
70	RG-2902	RG-2922	RG-3902	RG-3922	RG-1902	RG-1922
80	RG-2903	RG-2923	RG-3903	RG-3923	RG-1903	RG-1923
95	RG-2904	RG-2924	RG-3904	RG-3924	RG-1904	RG-1924
110	RG-2905	RG-2925	RG-3905	RG-3925	RG-1905	RG-1925
125	RG-2906	RG-2926	RG-3906	RG-3926	RG-1906	RG-1926
140	RG-2907	RG-2927	RG-3907	RG-3927	RG-1907	RG-1927
160	RG-2908	RG-2928	RG-3908	RG-3928	RG-1908	RG-1928
180	RG-2909	RG-2929	RG-3909	RG-3929	RG-1909	RG-1929

Please note that bowsprit travellers are specified by the bowsprit they will work on. Normally we size them to be 30% larger in diameter than the bowsprit - but if you would prefer otherwise, please call.



Bowsprit traveller with plates



The requirements which mast and bowsprit travellers fulfil are very different. A mast traveller should not jam during hoisting and lowering of the sail. One easy way to achieve this is to make them in one piece, such that when tension is on the halyard, the ring is held in a horizontal plane, or at least at right angles to the line of the halyard. The ring itself does not have to be that strong, since it is the halyard that is taking most of the load when sailing.

Travellers

Bowsprit travellers, on the other hand, must allow the attachment for the sail to articulate freely for it to work. Besides that, the ring needs to be much stronger to take the loads of the foresail. Usual options for sail attachment are a hook for the sail tack or plates to attach a furling gear. Bolting the furling gear into plates reduces the tendency for the furling line to snarl up.



Mast traveller

If you are unsure, please contact us for a discussion of your requirements, and/or a quote. Please note that in all cases the traveller is dimensioned for a spar diameter - so a "70mm" mast traveller has a ring of 100mm id, for example.

Mast Travellers

Mast	Bronze		Stainless	
	Unleathered	Leathered	Unleathered	Leathered
70	RG-1100	RG-1110	RG-3100	RG-3110
80	RG-1101	RG-1111	RG-3101	RG-3111
90	RG-1102	RG-1112	RG-3102	RG-3112
100	RG-1103	RG-1113	RG-3103	RG-3113
110	RG-1104	RG-1114	RG-3104	RG-3114

Mast hoops

The dimension quoted is the inner diameter of the hoop, so you need 1 or 2 inches clearance.

Dia.	4"	4½"	5"	6"	7"	8"
Ash			RG-0670	RG-0671	RG-0672	RG-0673
Stainless - unleathered	RG-3670	RG-3671	RG-3672	RG-3673	RG-3674	RG-3675
Stainless - leathered	RG-3690	RG-3691	RG-3692	RG-3693	RG-3694	RG-3695
Galv - unleathered	RG-1670	RG-1671	RG-1672	RG-1673	RG-1674	RG-1675
Galv - leathered	RG-1690	RG-1691	RG-1692	RG-1693	RG-1694	RG-1695
Dia.	9"	10"	12"	14"	16"	18"
Ash	RG-0681	RG-0674	RG-0675	RG-0676	RG-0678	RG-0679
Stainless - unleathered		RG-3676	RG-3677	RG-3678	RG-3679	RG-3680
Stainless - leathered		RG-3696	RG-3697	RG-3698	RG-3699	RG-1700
Galv - unleathered		RG-1676	RG-1677	RG-1678	RG-1679	RG-1680
Galv - leathered		RG-1696	RG-1697	RG-1698	RG-1699	RG-3700



We are often asked whether ash hoops can be supplied without the rivets, so they can be fitted to a mast in situ. It must be said that winding a mast hoop onto a mast is likely to be a triumph of hope over experience, but if that is what you want to do...

Stainless or galvanised mast hoops are more expensive in the first instance than wooden ones, but they tend to last a lot longer, and you don't need to carry spares. They can be served or covered with leather



Mastbands - light - bronze and galvanised



Off the shelf mastbands with 2 or 4 eyes. The gunmetal ones are OK up to about 1 ton - roughly 4mm 1x19 stainless wire, and the galvanised ones about 1.5 tons. Be warned that on any craft over about 20 ft, these are unlikely to be strong enough as crane irons.

I.D.	1½"	2"	2½"	3"	3½"	4"
Gunmetal						
2 eye	RG-0136	RG-0120	RG-0121	RG-0122	RG-0123	RG-0124
4 eye	RG-0139	RG-0130	RG-0131	RG-0132	RG-0133	RG-0134
Galvanised						
2 eye		RG-0115	RG-0116	RG-0117	RG-0119	RG-0118
4 eye		RG-0125	RG-0126	RG-0127	RG-0128	RG-0129

Mastbands - heavy - bronze

Heavier duty mastbands in bronze. These incorporate heavier lugs, drilled for shackles, a broader step to fit onto masts and spars better without slipping. Depending on envisaged loading, these may safely be used as crane irons and rigging attachments on small craft

I.D	1½"	1¾"	2"	2½"	3"	3½"
2 eye	RG-1150	RG-1151	RG-1152	RG-1153	RG-1154	RG-1155
4 eye	RG-1160	RG-1161	RG-1162	RG-1163	RG-1164	RG-1165
O.D. (main)	1 7/8"	2 1/8"	2½"	3"	3 5/8"	4 1/8"
Depth of ring	1"	1"	1 ¼"	1 ¼"	1 ½"	1 ½"
Hole in lug	6.5 mm	6.5 mm	8.5 mm	8.5 mm	10.5 mm	10.5 mm
Break Load	1800	1800	3400	3400	4100	4100

Mast bands can be made to order for special requirements, or for higher strength

Sail track & slides - brass

Useful not only for mainmast track, but also for clew outhauls, and hatch slides (if you use external track sliding in internal track).

Internal

Dinghy Goosenecks

Half Band & Spike
RG-0024

Size

Track

Slide - light
pattern

Slide - heavy
pattern



5/8"

RG-0018

RG-0012

RG-0007

3/4"

RG-0020

RG-0013

RG-0008

1"

RG-0022

-

RG-0009

External

Track

Slide

Size



5/8"

RG-0019

RG-0011

3/4"

RG-0021

RG-0010



Dinghy Gooseneck
RG-0025

Dinghy Goosenecks

We also offer a brass "spike" type gooseneck mounted on a 2½" dia half band, or on a slider and 12" of track, suitable for dinghies of up to about 14 ft (4m). The part numbers are RG-0024 and RG-0025. If you would like a spar end to fit these spike goosenecks we can fabricate one. RG-0023 is a generic part number for these.



Mast & Spar Fittings

The possibilities here are endless, so all we can do is give a feel for the various pieces we can and/or have made: (you can see examples on the website under “Custom Work” in the products section.)



- mastbands - incorporating spreader roots as appropriate.
- masthead fittings - with aerial sockets, sheave boxes etc as required.
- boom bails - with attachments for topping lifts, reefing lines and sheets as necessary.
- tabernacles
- stemhead fittings
- mainsail clew horses
-and anything else you can think of

On to sheet horses which we do in bronze or galvanised steel. They are all different, so if you could specify the following, we can quote a price:

- The span (centre to centre)
- Height at edge from the deck
- Camber
- Depth below deck and amount of thread required, or plate size
- Sail area, so we can size the material required

Horses & Pinrails

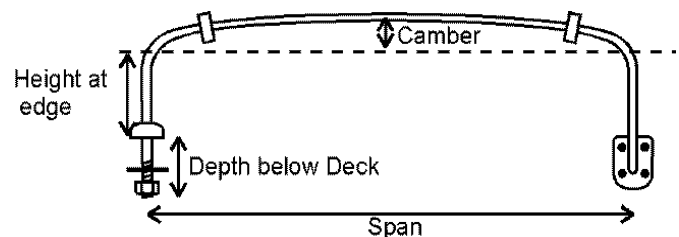
Horse Sliders -

Horse Diameter	Part No - Bronze	Part No - Stainless
1/2"	RG-0155	RG-3155
5/8"	RG-0156	RG-3156
3/4"	RG-0157	RG-3157
7/8"	RG-0158	RG-3158
1"	RG-0159	RG-3159



Finally, a neat way to connect the block is to use a “horse slider”, which is a small saddle running along the horse. It only really works for a bronze horse, galvanised ones can stick.

Fabrications & Specials



In the area of yacht and boat fittings, we can cope with short production runs - minimum one! In order to do so, we have gathered about us a range of skills in working metal and can provide the following services, most of which we do in-house:

- **patternmaking** - we usually work from sketches, but can copy an existing fitting if required. You are welcome to provide your own patterns, but please do discuss the job with us first.
- **casting** - up to about 25kg and 2ft x 2ft x 1ft (60cm x 60cm x 30cm) overall dimensions is easily do-able. We will need to discuss the most suitable material to use, and whether you wish the castings to be supplied “as cast” or polished.
- **fabrication and welding** - we work in bronze, brass (for interior fittings), Stainless and, of course, mild steel.
- **machining** - it is only fair to point out that our capability here tends toward “shipwrighting” rather than engineering. For example, our lathe is just about to celebrate its 50th birthday! So we are at the +/- 10 thou limit rather than +/- 1 thou, but that suffices for most fittings.
- **keelbolts** - we can thread up to 1”/24 mm using our capstan lathe.



Ash Blocks

These Danish-made blocks have galvanised bindings, unvarnished ash shells and nylon sheaves. They are approved by Lloyds and DNV, and are good general purpose wood blocks.



Single



Single & becket



Double



Double & becket



Fiddle



Double strop



Jib sheet

Shell Size	Rope Dia	Sheave Dia	Sheave width	Test load
3"	10mm	40mm	13mm	280kg
3 1/2"	12mm	48mm	15mm	360kg
4"	14mm	53mm	17mm	544kg
4 1/2"	16mm	63mm	19mm	732kg
5"	18mm	75mm	21mm	1028kg
6"	18mm	88mm	23mm	1228kg
7"	20mm	102mm	25mm	1612kg
8"	22mm	120mm	27mm	1944kg
9"	24mm	135mm	29mm	2320kg
10"	26mm	155mm	31mm	2700kg

Part Numbers

	3"	3 1/2"	4"	4 1/2"	5"
Single	RG-0730	RG-0740	RG-0750	RG-0760	RG-0770
Single & becket	RG-0731	RG-0741	RG-0751	RG-0761	RG-0771
Double	RG-0732	RG-0742	RG-0752	RG-0762	RG-0772
Double & becket	RG-0733	RG-0743	RG-0753	RG-0763	RG-0773
Treble	RG-0734		RG-0754		RG-0774
Treble & becket	RG-0735		RG-0755		RG-0775
Fiddle			RG-0756		RG-0776
Fiddle & Becket			RG-0744		RG-0745
Single strop	RG-0737	RG-0747	RG-0757	RG-0767	RG-0777
Double strop	RG-0738	RG-0748	RG-0758	RG-0768	RG-0778
Jib Sheet	RG-0739		RG-0759		RG-0779
Galv Hook	RG-0831	RG-0832	RG-0833	RG-0834	RG-0835
	6"	7"	8"	9"	10"
Single	RG-0780	RG-0790	RG-0800	RG-0810	RG-0820
Single & becket	RG-0781	RG-0791	RG-0801	RG-0811	RG-0821
Double	RG-0782	RG-0792	RG-0802	RG-0812	RG-0822
Double & becket	RG-0783	RG-0793	RG-0803	RG-0813	RG-0823
Treble	RG-0784	RG-0794	RG-0804	RG-0814	RG-0824
Treble & becket	RG-0785	RG-0795	RG-0805	RG-0815	RG-0825
Fiddle	RG-0786	RG-0796	RG-0806		
Fiddle & Becket	RG-0764	RG-0765			
Single strop	RG-0787	RG-0797	RG-0807	RG-0817	RG-0827
Double strop	RG-0788	RG-0798	RG-0808	RG-0818	RG-0828
Jib Sheet	RG-0789	RG-0799	RG-0809	RG-0819	RG-0829
Galv Hook	RG-0836	RG-0837	RG-0838	RG-0839	RG-0840



Shell Size	Rope Dia	Sheave Dia	SWL kg	
			Bound	Strop
3"	8-10mm	40mm	1500	575
3 1/2"	10-12mm	50mm	1750	635
4"	12-14mm	60mm	2000	700

Ash Blocks - Stainless Bindings

These blocks are strong and elegant. The bound blocks are cunningly designed so that they can be disassembled easily for maintenance. Tufnol sheaves are standard, as are heavy gauge stainless bindings with fixed eye. Bronze sheaves available to special order

Part Numbers - Bow end

	3"	3 1/2"	4"
Single	RG-2800	RG-2810	RG-2820
Single & becket	RG-2801	RG-2811	RG-2821
Double	RG-2802	RG-2812	RG-2822
Double & becket	RG-2803	RG-2813	RG-2823
Single strop	RG-2804	RG-2814	RG-2824
Double strop	RG-2805	RG-2815	RG-2825
Fiddle		RG-2816	RG-2826
Fiddle & Becket		RG-2817	RG-2827

Part numbers - swivel end

Single	RG-2830	RG-2840	RG-2850
Single & becket	RG-2831	RG-2841	RG-2851
Double	RG-2832	RG-2842	RG-2852
Double & becket	RG-2833	RG-2843	RG-2853
Single Stand-up	RG-2860	RG-2861	RG-2802



Elm Blocks - Bronze Bindings

These Dutch-made blocks are quite superb, with bronze bindings, varnished elm shells and delrin sheaves. So they are handsome, strong and reassuringly robust. Not cheap, mind.

Shell Size	Rope Dia	Sheave Dia	Sheave width	Break Load (kg)
85mm	8-10mm	30mm	12mm	2200
100mm	12 mm	35mm	14mm	3150
125mm	16 mm	40mm	16mm	5500
150mm	18 mm	55mm	20mm	8000
180mm	20 mm	65mm	22mm	10000
200mm	22 mm	75mm	24mm	14000



Bow end above, Swivel end Below, hook end (right).

Part Numbers - Elm Blocks - bronze bindings - fixed eye

Shell Size (mm)	85	100	125	150	180	200
Single	RG-1220	RG-1230	RG-1240	RG-1260	RG-1270	RG-1280
Single & becket	RG-1221	RG-1231	RG-1241	RG-1261	RG-1271	RG-1281
Double	RG-1222	RG-1232	RG-1242	RG-1262	RG-1272	RG-1282
Double & becket	RG-1223	RG-1233	RG-1243	RG-1263	RG-1273	RG-1283
Fiddle	-	RG-1234	RG-1244	RG-1264	RG-1274	-
Fiddle & becket	-	RG-1235	RG-1245	RG-1265	RG-1275	-

These are available with a variety of different attachments - the eye end listed above, add 1000 to the part number for a swivel end - eg a 100mm fiddle eye end is RG-1234, a 100 mm fiddle swivel end is RG-2234.

For other terminations - eg hook end or upset shackle, please get in touch



Tufnol Blocks



Single (Bow)

All the illustrations show swivel end blocks (except where it says otherwise).

These blocks are made using phenolic cheeks and sheaves, with stainless steel straps and rivets. A low-maintenance alternative to wooden blocks.

Rope Dia	Sheave Dia	Breaking load
8 mm	30 mm	810kg
10 mm	35 mm	1110kg
12 mm	43 mm	1200kg
14 mm	50 mm	2050kg
16 mm	63 mm	2140kg



Double & Becket



Double



Fiddle (bow)



Fiddle, Becket & Jammer



Bow End



Cheek Block

Part Numbers - Swivel End Blocks

	8mm	10mm	12mm	14mm	16mm
Single	RG-0455	RG-0465	RG-0485	RG-0495	RG-0500
Single & becket	RG-0456	RG-0466	RG-0486	RG-0496	RG-0501
Double	RG-0458	RG-0467	RG-0487	RG-0497	RG-0502
Double & becket	RG-0460	RG-0470	RG-0488	RG-0498	RG-0503
Fiddle	RG-0461	RG-0471	RG-0489	-	-
Fiddle, becket, jammer	RG-0459	RG-0468	RG-0491	-	-

Part Numbers - Bow End Blocks

	8mm	10mm	12mm	14mm	16mm
Single	RG-0510	RG-0520	RG-0530	RG-0540	RG-0550
Single & becket	RG-0511	RG-0521	RG-0531	RG-0541	RG-0551
Double	RG-0512	RG-0522	RG-0532	RG-0542	RG-0552
Double & becket	RG-0513	RG-0523	RG-0533	RG-0543	-
Fiddle	RG-0514	RG-0524	RG-0534	-	-

Tufnol Cheek Blocks

Rope Size	8mm	10mm	12mm	14mm	16mm
Part No	RG-1474	RG-1475	RG-1476	RG-1477	RG-1478

Tufnol Sheaves

Max Rope Dia	5 mm	5 mm	6 mm	6 mm	8 mm	8 mm	8 mm	8 mm
Sheave Dia	50	60	70	80	25	30	35	40
Sheave width	11	11	13	13	11	11	11	11
Hole Dia	8	8	10	10	6	6	6	6
Part No	RG-1480	RG-1481	RG-1484	RG-1485	RG-1493	RG-1494	RG-1495	RG-1496

Max Rope Dia	8 mm	8 mm	10 mm	10 mm	12 mm	12 mm	14 mm	14 mm
Sheave Dia	90	100	50	60	70	80	90	100
Sheave width	15	15	13	13	16	16	18	18
Hole Dia	10	10	8	8	10	10	10	10
Part No	RG-1488	RG-1489	RG-1500	RG-1501	RG-1510	RG-1511	RG-1520	RG-1521





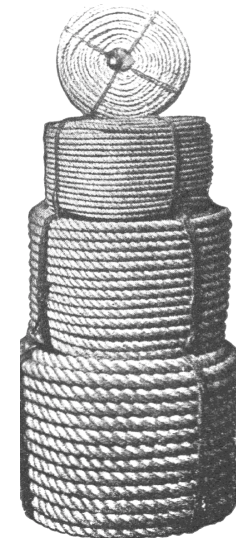
3-Strand Buff Polyester a well constructed, low-stretch rope

Diameter (mm)	Metres per coil	Breaking Load (kg)	Part No.
4	100	250	RP-0220
6	100	420	RP-0221
8	390	1000	RP-0222
10	220	1500	RP-0223
12	165	2000	RP-0224
14	110	2600	RP-0225
16	85	4000	RP-0226



Braided Buff Polyester

3	100	140	RP-0197
4	100	250	RP-0200
5	100	360	RP-0199
6	200	420	RP-0201
8	200	1000	RP-0202
10	100	1500	RP-0203
12	100	2400	RP-0204
14	100	2900	RP-0205



"Hemp-style" Polypropylene a 3-strand Poly-Propylene rope, UV stabilised for a long working life. We tend to stock just the 24 mm size for handrails and gardens!

24	220	6900	RP-0250
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Dyneema® Ropes

The possibilities opened up by the use of these ropes are huge. This is a summary of an article on the website:

- You can use the uncoated braided version as standing rigging (ie as a replacement for wire rope). If you do you will save weight, but most likely get either greater windage or greater stretch. I suspect it isn't worthwhile for ordinary mortals.
- If you substitute your existing rope or wire halyards, outhauls etc, you will save loads of weight, have a system which stretches far less, and because the strengths are higher, the ropes will be smaller, run more freely etc. And because the ropes are smaller, they may not cost that much more. This seems to be the area where this stuff really can make a difference.
- If you substitute your sheets with this stuff, you are likely to be wasting your money, because you still need to grab hold of it.

Buff Braided Dyneema®

12-strand braid construction—low weight and stretch for its size, but won't go in cleats/jammers etc

Racing Dyneema® Buff

Dyneema®, with an outer sleeve of polyester, for ease of handling and cleating. The racing type has a solid core of dyneema, the cruising a mix of Dyneema and other fibres.

Cruising Dyneema® Buff

Stainless 7 x 19

Just so you can compare breaking loads and weight

Dia (mm)	Part No	B.L. (kg)	Weight (g per m)	Part No	B.L. (kg)	Weight (g per m)	Part No	B.L.(kg)	Weight (g per m)	B.L.(kg)	Weight (g per m)
2				RP-0622	280	3.4				230	20
2.5	RP-0602	570	3.7							360	31
3	RP-0603	1000	5.3	RP-0623	450	8.0				550	45
4	RP-0604	2060	9.8	RP-0624	700	10				900	80
5	RP-0605	2400	12.8	RP-0625	1350	19				1420	124
6	RP-0606	3980	17.6	RP-0626	1900	25	RP-0646	1520	28	2050	180
8	RP-0608	5360	23.0	RP-0628	3950	39	RP-0648	2000	43	3600	320
9	RP-0609	6690	37.5								
10				RP-0630	5360	59	RP-0650	2500	65	5500	500
12				RP-0632	6690	93	RP-0652	3500	102	8000	720



Standing Rigging

Stainless Steel Wire Rope

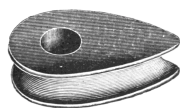
Galvanised Wire Rope

Dia (mm)	1 x 19		7 x 19		7 x 7		7 x 7		6 x 19	
	Part No	B.L.(kg)	Part No	B.L.(kg)	Part No	B.L.(kg)	Part No	B.L.(kg)	Part No	B.L.(kg)
2.5			RP-0120	360						
3	RP-0101	730	RP-0121	550	RP-0110	550	RP-0131	629	RP-0141	498
4	RP-0102	1300	RP-0122	900	RP-0111	1000	RP-0132	1120	RP-0142	885
5	RP-0103	2000	RP-0123	1420	RP-0112	1500	RP-0133	1750	RP-0143	1380
6	RP-0104	2800	RP-0124	2050	RP-0113	2000	RP-0134	2520	RP-0144	1990
8					RP-0114	3880	RP-0135	4136		

For more information on wire and rope, see the "Reference Data & Articles" section of the website

Wire Rope Terminals

Dia	Talurit					Sta-lok swageless				Blue Wave Swageless	
	Stainless		Galvanised			Stainless				All types	
	1 x 19	7 x 7	7 x 19	7 x 7	6 x 19	1 x 19 (eye)	1 x 19 (fork)	7-strand (eye)	7-strand (fork)	Eye	Fork
2.5			RP-0320								
3	RP-0301	RP-0310	RP-0321	RP-0331	RP-0341					RP-0400	RP-0410
4	RP-0302	RP-0311	RP-0322	RP-0332	RP-0342	RP-0362	RP-0382	RP-0372	RP-0392	RP-0401	RP-0411
5	RP-0303	RP-0312	RP-0323	RP-0333	RP-0343	RP-0363	RP-0383	RP-0373	RP-0393	RP-0402	RP-0412
6		RP-0313	RP-0324	RP-0334	RP-0344	RP-0364	RP-0384	RP-0374	RP-0394	RP-0403	RP-0413
7						RP-0365	RP-0385	RP-0375	RP-0395	RP-0404	RP-0414
8		RP-0314	RP-0325	RP-0335	RP-0345	RP-0366	RP-0386	RP-0376	RP-0396	RP-0405	RP-0415



Bronze Rigging Thimbles

Size	5 mm	6 mm	8 mm	10 mm	12 mm	14 mm
Part Number	RG-1210	RG-1211	RG-1212	RG-1213	RG-1214	RG-1215

Galvanised Closed Body Rigging Screws -

	A	B	L min	L max	Breaking	Part No
Closed Body	1/4"	7	145	220	800 kg	RG-0575
	5/16"	9	165	245	1300 kg	RG-0576
	3/8"	11	190	290	1500 kg	RG-0577
	1/2"	13	285	430	3700 kg	RG-0579
	5/8"	16	370	540	6500 kg	RG-0580



Sta-Lok Bronze Rigging Screws & Toggles

Thread	Pin	L min	L max	Breaking	Part No	Part No
1/4"	1/4"	5 7/8"	9"	1447 kg	RG-0644	RG-0654
5/16"	5/16"	6 3/4"	10 1/8"	2343 kg	RG-0645	RG-0655
3/8"	3/8"	7 3/8"	11"	3597 kg	RG-0646	RG-0656
7/16"	7/16"	8 1/2"	13"	4853 kg	RG-0647	RG-0657
1/2"	1/2"	9 5/8"	14"	6599 kg	RG-0648	RG-0658
5/8"	5/8"	11 1/4"	16 1/4"	10631 kg	RG-0649	RG-0659
3/4"	3/4"	14 1/8"	21 1/2"	14467 kg	RG-0650	RG-0660

Sta-lok Bronze Open Body Rigging Screw (left) & toggle (below)



Bronze Open Body Rigging Screws - Brookes & Adams

Thread	Pin	L min	L max	Breaking	Part No	Part No	Part No
0BA	5/32"	3 1/8"	4 1/8"	500 kg	RG-0600	RG-0605	RG-0610
5/16" BSF	3/16"	3 3/4"	5"	1000 kg	RG-0601	RG-0606	RG-0611
3/8" BSF	3/8"	6"	8 1/4"	2000 kg	RG-0602	RG-0607	RG-0612
1/2" BSF	7/16"	7 1/2"	10 1/4"	3000 kg	RG-0603	RG-0608	RG-0613

Bronze Open Body Rigging Screw (Fork/fork shown)



Highfield Pattern Backstay Levers

These are great if you have the deck space to fit them, and are sure that they cannot be accidentally tripped when under load. They can fly up with some considerable force.

Length of Arm	10"	16"	24"
Max Wire (mm)	6	8	10
Part No	RG-0110	RG-0111	RG-0112



Wire & Backstay Blocks

Wire Size	Wire	Deck	Stand-up	B.L. (kg)
4	RG-0065			1130
5	RG-0066	RG-0080	RG-0081	1200
6	RG-0067	RG-0084	RG-0085	2040
8	RG-0068	RG-0088	RG-0089	2010

The wire blocks have a removable pin so the wire can be loaded into the block

The deck blocks are open ended. This gives a good deal of slack so that running backstays can be taken forward when required. Please advise deck thickness when ordering

In the stand-up blocks, the sheave pin is removable to allow the wire to be fed through. Please advise angle of lean-in required when ordering





Chainplates

Bowsprit plate

Hull Plates

Please note that Gunmetal chainplates are supplied without

Chainplate	4"	6"	8"	10"	12"
Galvanised	HL-0400	HL-0401	HL-0402	HL-0403	HL-0404
Bronze	HL-0405	HL-0406	HL-0407	HL-0408	HL-0409
Bowsprit	4"	6"	8"	10"	12"
Galvanised	HL-0415	HL-0416	HL-0417	HL-0418	HL-0419
Bronze	HL-0420	HL-0421	HL-0422	HL-0423	HL-0424

We can also make these to your specification in stainless or

Aluminium Bullseyes

What are these doing in this catalogue? Well, the low friction of the Dyneema braid coupled with the hard surface of these bullseyes means that they are very effective as fairleads and also as tackles. A few examples (from the Antal brochure) are shown here. Old Gaffers will recognise most of them - so it's back to the future!

Diameter (mm)	25	35	40	50	60	70	80
Bore (mm)	10	14	16	20	20	28	30
Score (mm)	7	10	10	14	14	20	22
Part Number	HL-0790	HL-0791	HL-0792	HL-0793	HL-0794	HL-0795	HL-0796



Examples of Dyneema lines used with aluminium bullseyes
Clockwise from bottom right:
Stay lashing, ring loop, lazy jacks, furling line, 8:1 cascade



Tufnol Bullseyes

Diameter (mm)	32	40
Bore (mm)	12	20
Score (mm)	8	11
Part Number	HL-0811	HL-0813

Lignum Vitae Bullseyes

Diameter (mm)	25	35	45	55	65	75
Bore (mm)	8	12	16	20	24	28
Part Number	HL-0800	HL-0801	HL-0802	HL-0803	HL-0804	HL-0805



Ash Parrel Balls

Length (mm)	25	30	35	40	50	60
Bore (mm)	8	9	10	11	12	13
Part Number	RG-1079	RG-1080	RG-1081	RG-1082	RG-1083	RG-1084





Rowlocks & Sockets

Gunmetal

Style	Gate	Stem Dia	Rowlock	Top Socket	Side Socket
Uneven Top	2"	1/2"	HL-0001	HL-0002	HL-0003
Uneven Top	2 1/2"	5/8"	HL-0020	included	HL-0022
Square Pattern	2 1/2"	5/8"	HL-0021	included	HL-0022

Galvanised

Style	Gate	Stem Dia	Rowlock	Top Socket	Side Socket
Uneven Top	2"	3/8"	HL-0004	HL-0010	HL-0015
Uneven Top	2 1/4"	7/16"	HL-0005	HL-0011	HL-0016
Uneven Top	2 1/2"	1/2"	HL-0006	HL-0012	HL-0017

Captive Rowlocks

Galvanised	Turnover	2" x 3/8"	HL-0018
Gunmetal	Twist & Drop	2" x 1/2"	HL-0025

Please note: HL-0025 are not recommended for craft greater than 12 ft length.

And in case your oars need restraining, we can offer an Oar Clamp (HL-0027) and a suitable socket (HL-0028). The idea is that you mount the socket in a thwart, and drop the clamp through the socket, so trapping the oars. You can then secure the clamp.



Boat-hooks & Staves

Boat-hooks		Single & Spike		Double	
Length	Pole Dia	Galvanised	Gunmetal	Galvanised	Gunmetal
6"	1 1/4"	HL-0656 (1 1/8" stave)	HL-0652	HL-0654	HL-0650
8"	1 1/2"	HL-0657	HL-0653	HL-0655	HL-0651
Staves	Ash	1 1/8" x 6 ft	HL-0660		
	Ash	1 1/4" x 6 ft	HL-0661	1 1/4" x 8ft	HL-0665
		1 1/2" x 6 ft	HL-0662	1 1/2" x 8ft	HL-0666

Oar Clamp Oar Clamp socket

Grabit Boathook - HL-0659

The original, and still the best boathook for attaching a line to a mooring buoy or ring.

Cast in aluminium bronze, one sweep with the grabit leaves the boat secure whilst a permanent mooring is attached. Well, maybe two sweeps if you are having a bad day.



Single & Spike Boathook

Double Boathook

Grabit Boathook

Lacing Hooks & Eyes - bronze & brass

	Lacing eye	Deck eye	Deck clip	Lacing hook	Reefing hook
Hole Centres	23.8	32	25.4	12.7	12.7
Part No (Bronze)	HL-0613	HL-0611	HL-0612	HL-0490	HL-0491
Part No (Brass)		HL-0504		HL-0506	



Bronze Shackles

D shackles

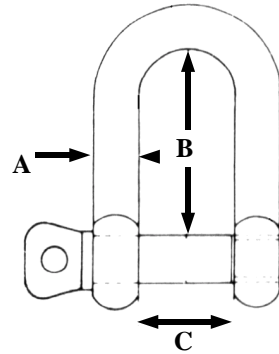
A (mm)	B (mm)	C (mm)	B.L. (kg)	Part No
3	17	11	400	RG-0240
4	20	11	500	RG-0241
5	22	12	600	RG-0242
6	23	13	1000	RG-0243
8	32	16	1600	RG-0244
10	40	20	2400	RG-0245

Bow shackles

A (mm)	B (mm)	C (mm)	B.L. (kg)	Part No
5	27	10	400	RG-0298
6	31	12	800	RG-0299
8	39	16	1200	RG-0300
10	43	20	1600	RG-0301

Long D Shackles

A (mm)	B (mm)	C (mm)	B.L. (kg)	Part No
4	24	11	500	RG-0269
5	32	12	600	RG-0270
6	40	13	1000	RG-0271



Brass Snap Shackles

Fixed Eye

L (mm)	L (in)	B.L. (kg)	Part No
32	1 ¹ / ₄ "	250	RG-0340
41	1 ⁵ / ₈ "	450	RG-0341
50	2"	750	RG-0342
63	2 ¹ / ₂ "	1000	RG-0343
76	3"	1200	RG-0344
101	4"	2500	RG-0345

Swivel Eye

L (mm)	L (in)	B.L. (kg)	Part No
57	2 ¹ / ₄ "	450	RG-0355
70	2 ³ / ₄ "	750	RG-0356
81	3 ¹ / ₄ "	1000	RG-0357
101	4"	1200	RG-0358
139	5 ¹ / ₂ "	2500	RG-0359

Swivel D

L (mm)	L (in)	B.L. (kg)	Part No
57	2 ¹ / ₄ "	450	RG-0365
70	2 ³ / ₄ "	750	RG-0366
88	3 ¹ / ₂ "	1000	RG-0367
114	4 ¹ / ₂ "	1200	RG-0368



Fixed eye snap shackle



Swivel eye snap shackle



Swivel D snap shackle

Gaff Span Shackles

Pin Size	1/4"	3/8"	1/2"	5/8"
Gunmetal	RG-0145	RG-0146	RG-0147	RG-0148
Galvanised	-	RG-0140	RG-0142	RG-0141



Span shackle



Wykeham-Martin Furling Gear

Wykeham-Martin furling gear looks like - indeed is - a relic from the 19th century. But it works. For further information on its use, please see the articles on the website

Size	Max Foresail	Part No	Drum only	Swivel
1	50	RG-0160	RG-2161	RG-2171
2	100	RG-0161	RG-2162	RG-2172
3	200	RG-0162	RG-2163	RG-2173
4	350	RG-0163	RG-2164	RG-2174

We can also supply stainless bearings for Wykeham-Martin gears. For the bearings only the part numbers are: WM2 or 3 - MA-1400, WM 4 - MA-1401. If you prefer we can fit them for you. The part numbers are WM-0002 and WM-0004.



Spinnaker fittings - bronze

	Strap Length	Pole Dia	Part No
Pole End	4"	1 3/4"	RG-1050
Pole End	5"	2 1/4"	RG-1051
Slide	for 1" track	-	RG-1060



Brass Ringbolts

Shank Diameter	3/8"	1/2"
Shank Length	3"	4"
Ring Diameter	1 1/4"	1 3/4"
Part Number	HL-0456	HL-0457



Eyebolts - see price list for sizes

	Galvanised	Stainless	Stainless eye nuts	Bronze eye nuts
Part No	HL-0431 to HL-0435	HL-0440 to HL-0443	HL-0436 to HL-0439	HL-0444 to HL-0447

Ash Belay Pins

Length	8"	10"	12"	13"	14"	15"
Diameter	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"
Part Number	HL-1050	HL-1051	HL-1052	HL-1053	HL-1054	HL-1055



Bronze Belay Pins

Length	6"	7 1/2"	9"	11"
Diameter	3/8"	7/16"	1/2"	5/8"
Part Number	HL-0101	HL-0104	HL-0102	HL-0103

Galvanised Belay Pins

Length	6 1/4"	7 1/2"	9 1/4"
Diameter	3/8"	1/2"	5/8"
Part Number	HL-0105	HL-0106	HL-0107



Deck Fairleads

How big should fairleads be? About 2½% of the boat length is a good start point. The lipped ones are very neat, but be sure that the fasteners are far enough inboard to be strong. You may be better off with a normal pattern mounted inboard and a bit of keelband (page 46) to protect the deck edge.



Straight	3"	4"	5"	6"	7"	8"	10"
Galvanised		HL-0131	HL-0132	HL-0133		HL-0134	HL-0135
Gunmetal	HL-0155	HL-0156	HL-0157	HL-0158	HL-0161	HL-0159	HL-0160



Handed							
Galvanised		HL-0136	HL-0137	HL-0138		HL-0139	HL-0140
Gunmetal		HL-0146	HL-0147	HL-0148	HL-0151	HL-0149	HL-0150



Straight Lipped				
Gunmetal	HL-0176		HL-0177	HL-0178



Handed Lipped			
Gunmetal	HL-0181	HL-0182	HL-0183



Handed Lipped Lockover				
Gunmetal	HL-0186	HL-0187	HL-0188	HL-0189



Closed			
Gunmetal	HL-0171	HL-0172	HL-0173



Style "A"



Style "C"



Sunken Fairlead

Bulwark Fairleads - bronze

Type	Hole width	Hole depth	Spigot Depth	Part Number
Oval - "A"	1¾"	1"	½"	HL-0848
Oval - "A"	2½"	1½"	¾"	HL-0849
Oval - "A"	3½"	2"	1¼"	HL-0850
Oval - "A"	4"	2½"	2"	HL-0851
Oval - "C"	2 ⅜"	1¾"	¾"	HL-0852
Oval - "C"	3½"	2"	1¼"	HL-0853
Sunken	3"	1¼"	1" wide	HL-0165

Flagstaff Sockets



Diameter	5/8"	¾"	1"	1 ¼"	1 ½"
Straight	HL-0631	HL-0632	HL-0633	HL-0634	
Raked		HL-0637	HL-0638	HL-0639	
Raked with Button & Cleat			HL-0642	HL-0643	HL-0644

Bronze T-track & slides

Now available in lengths of up to 10ft / 3m. We can supply it undrilled, pre-drilled with holes at 4" (102 mm) centres, or drilled to your specification.



Width	Track (undrilled)	Track (drilled)	End Stops	Slide - Plain	Slide - Roller
1"	RG-200	RG-203	RG-208	RG-2030	RG-2035
1¼"	RG-201	RG-204	RG-209	RG-2031	RG-2036



Pillar cleats - metal

Length	3"	4"	5"	6"	8"	10"	12"
Bronze	HL-0029	HL-0030	HL-0031	HL-0032	HL-0033	HL-0034	HL-0055
Galvanised	-	HL-0060	-	HL-0061	HL-0062	HL-0063	

Please note that the bronze pillar cleats up to and including 6" length do not have the hole in the pillar (as shown in the lower illustration)



Pillar Cleat

Pillar cleats - wood

Teak	-	-	-	HL-0035	HL-0036	HL-0037	HL-0038
Ash	-	HL-1033	HL-1034	HL-1035	HL-1036	HL-1037	HL-1038



Teak above, ash below

Open base cleats - bronze

Length	4"	5"	6"	8"	10"	12"	15"
Wide Base	HL-1060	HL-1061	HL-1062	HL-1063	HL-1064	HL-1065	-
"Clyde" Style	-	-	-	-	HL-0047	HL-0048	HL-0049



Clyde Cleat bases are priced per pair, and do not include the teak bar.

Halyard Cleats - Brass

Horn cleat	70 mm	HL-0073	100 mm	HL-0074
Flag cleat	50 mm	HL-0071		



Horn cleat

Flag cleat

Wide Base above, Clyde Cleat below



Bollard cleats - Gunmetal

Length	4"	5"	6"
Part No	HL-1041	HL-1042	HL-1043



Jamb cleats - Gunmetal

Mounted at 45 degrees (tail first) to the direction of the line, the rope is taken around the "hook" and dropped below the tail, jamming between the tail and the surface on which the cleat is mounted. They are perfect for sheets; just don't sit on them!

Rope size	6mm	8mm	10mm	12mm
Length	3"	4"	5.5"	7.5"
Part No	HL-0042	HL-0043	HL-0044	HL-0045



Tube cleats - Brass, straight

One of the earlier forms of jam cleat and still within limits very useful. They grip the rope fine - like most preferring braided to 3-strand - but do tend to re-grip it when you want to run the rope out. Probably therefore best used for rudder up/downhauls, centreplate hoist, and other lines where it doesn't matter too much if the rope snags or has to be fed out by hand.

Rope size	6mm	10mm
Part No	HL-0095	HL-0096

Tube Cleats - Bronze, handed



Rope size	10 mm	12 mm
Part No	HL-0098	HL-0099



Cam cleats - Tufnol

Very handy for quickly cleating a rope. They work better on braided line than 3-strand. If the rope begins to slip, sharpen the cams with a chisel.

Size	10mm (plain)	10mm	12/14mm
	HL-0081	HL-0086	HL-0082



For sizing cleats, try this as a start point:

Main mooring cleats, 3 to 4% of boat length

Spring cleats - 2 to 3% of boat length

Halyard cleats 15 to 20 times the rope diameter
Jamming cleats (any type) the right size for the line used.



Sheet Leads

Bronze U-bolts with lignum vitae eyes



U-Bolt type
Lignum vitae/bronze above,
Tufnol/Stainless below

Part No	Bore (mm)	Bolt length (mm)	Centres (mm)	Strap dia
HL-0110	16	38	40	$\frac{5}{16}$
HL-0111	16	76	40	$\frac{5}{16}$
HL-0112	16	115	40	$\frac{5}{16}$
HL-0113	20	76	45	$\frac{3}{8}$
HL-0114	20	115	45	$\frac{3}{8}$
HL-0115	24	76	55	$\frac{1}{2}$
HL-0116	24	115	55	$\frac{1}{2}$

Stainless U-Bolts with Tufnol eyes

Part No	Bore (mm)	Bolt Length (mm)	Centres (mm)	Strap dia
HL-3110	12	35	33	6
HL-3111	12	50	33	6
HL-3115	20	70	42	10
HL-3116	20	110	42	10

Screw-down Sheet leads - Bronze



Coaming Leads
Single &
double



Bore (mm)	Strap	Lead	Part No
12	Brass	Lignum Vitae	HL-0821
16	Brass	Lignum Vitae	HL-0824



Coaming Leads - Bronze (shown left)

Max Rope	Type	Coaming Thick-ness	Size Overall	Part No
8 mm	Single	$\frac{1}{2}$ "	$2\frac{3}{4}$ " x $1\frac{5}{8}$ "	HL-0836
8 mm	Double	$\frac{1}{2}$ "	4" x $1\frac{9}{16}$ "	HL-0837
10 mm	Single	$\frac{5}{8}$ "	$3\frac{7}{16}$ " x 2"	HL-0838
10 mm	Double	$\frac{5}{8}$ "	5" x 2"	HL-0839

All Metal Sheet Leads - Bronze (shown below)

Type	Jibsheet din-	Jibsheet dayboat	Thru deck	Deck lead	Bonnet
Bore (mm)	25 x 12	35 x 16		12 x 12	
Part No	HL-0123	HL-0122	HL-0831	HL-0832	HL-0833



Bonnet fairlead & deckplate



Bonnet Fairleads & Plates

Thread	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"
Plate Diameter	$2\frac{1}{8}$ "	$2\frac{3}{4}$ "	$3\frac{1}{2}$ "	$3\frac{3}{4}$ "	$3\frac{1}{2}$ "
Depth	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	$2\frac{1}{4}$ "	$2\frac{1}{2}$ "	3"
Part No (plate)	HL-0190	HL-0191	HL-0192	HL-0193	HL-0194
Part No (bonnet)			HL-0202	HL-0203	HL-0204
Part No (eye)	HL-0210	HL-0211	HL-0212	HL-0213	HL-0214



Hatch Stays

Description	Length (min)	Length (max)	Part Number
Skylight Lifter	16"	1/2" dia	CB-0420
Skylight Lifter	21"	5/8" dia	CB-0421
Skylight Opener	11 3/4"	-	CB-0430
Telescopic Stay	11 1/2"	19 3/4"	CB-0440
Telescopic Stay	14 1/8"	25 1/4"	CB-0441
Telescopic Stay	8 5/8"	15"	CB-0442
Quadrant Stay	10"	-	CB-0445



Heavy Duty Hinges

Description	Length	Width	Part Number
Skylight Hinge	12"	1 1/2"	CB-0450
Lift-off, straight	4"		CB-0455
Lift-off, straight	6"		CB-0456
Lift-off, curved	4"	left hand	CB-0462
Lift-off, curved	4"	right hand	CB-0463
Lift-off, curved	6"	left hand	CB-0464
Lift-off, curved	6"	right hand	CB-0465
Offset (Brass)	5"	Offset 1 3/8"	CB-0085
Offset (Brass)	4"	Offset 1/4"	CB-0086



Locking Hatch Handles

Dual	80 mm (3 1/4")	98 mm (4")	CB-0205
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CB-0205 can be operated from both sides of the hatch

Chain Pipes

Please remember to mount them with the flap facing aft.

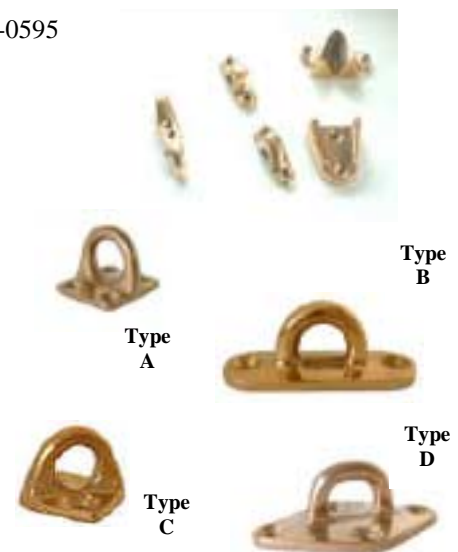
Inside Diameter	1 1/2"	1 3/4"	2"	2 1/2"	3"
Chain Size	1/4" 6mm	5/16"/8mm	3/8"/9.5mm	7/16"/11mm	9/16"/14mm
Galvanised	HL-0598	HL-0597	HL-0599	HL-0600	HL-0601
Gunmetal	HL-0592	HL-0591	HL-0593	HL-0594	HL-0595



Anchor Chock set - for CQR-style anchors of up to 35lb - Part no HL-0581

Bronze Eyeplates

Oblong	A	B	B	B
Length	1 3/8"	3"	3 1/2"	4"
Width	1 3/4"	7/8"	1 5/16"	1 1/2"
Part No	HL-0515	HL-0507	HL-0508	HL-0509
Diamond	C	D	D	D
Length	1"	3 1/4"	3 1/2"	4"
Width	1"	2"	2 5/16"	2 1/2"
Part No	HL-0514	HL-0517	HL-0518	HL-0519





Bronze Winches

What is good about LVJ winches?

- they are a good blend of engineering and aesthetics - all external parts are bronze

- As well as the “normal” plain and self-tailing winches, the range also includes wire winches in bronze - see next page.

- they are good value, particularly the self-tailers



LVJ bronze winches - plain

Single speed

Type	Part Number	Height	Drum Dia	Base Dia	Power ratio
8	HL-1210	80	61	84	8.5:1
10	HL-1211	100	65	98	8.5:1

Two speed

Type	Part Number	Height	Drum Dia	Base Dia	Power ratios
25	HL-1212	125	76	132	6.8:1 / 25.0:1
40	HL-1213	170	90	175	5.6:1 / 42:1

Three speed

70	HL-1214	240	110	220	4.6:1 / 10.5:1/50:1
140	HL-1215	275	150	290	3.4:1 / 20:1/70:1



LVJ bronze winches - self tailing

Single speed

Type	Part Number	Max Line Dia (mm)	Height (mm)	Drum Dia (mm)	Base Dia (mm)	Power ratio
10S	HL-1220	8	140	67	110	17:1

Two speed

Type	Part Number (all bronze)	Max Line Dia (mm)	Height	Drum Dia	Base Dia	Power ratio
26S	HL-1222	10- 12	170	65	115	10.6:1 / 16.4:1
31S	HL-1223	12	180	76	142	6.5:1 / 25:1
41S	HL-1224	14	220	90	175	5.6:1 / 42:1
51S	HL-1225	16	250	100	200	10:1 / 50:1
71S	HL-1226	18	295	110	220	10.5:1 / 51:1
141S	HL-1227	25	330	150	290	20:1 / 70:1



LVJ Wire winches

Type	Part Number	Wire Capacity	Height (mm)	Drum Dia (mm)	Base Dia (mm)	Gearing
EWLK	HL-1235	15m @ 3mm	82	45	85 x 150	direct
EWLP	HL-1236	17m @ 5mm	115	60	120 x 200	direct
DWL3	HL-1240	36m @ 5mm	175	75	140 x 210	3:1
DWL5	HL-1241	20m @ 7mm	175	75	140 x 210	5:1
HW30	HL-1230	20m @ 3mm	105	50	105	direct
HW50	HL-1231	20m @ 5mm	145	60	145	direct
HW80	HL-1232	30m @ 8mm	190	80	190	1:1 & 4:1



LVJ EWLK wire winch



LVJ DWL3/5 wire winch



LVJ HW50 wire winch

Winch Selection Guide

Mainsail Area (ft ² / m ²)	120/11	150/14	180/17	210/20	250/23	325/30	750/70
Genoa Area (ft ² / m ²)	200/19	300/28	350/33	470/44	575/53	825/77	1500/139
Boat Length (ft/ m)	23/7	27/8	30/9	34/10	38/12	45/14	52/16

LVJ Winches

Main Halyard	8	8	10	10	25/26	31/40	40/41
Genoa Halyard	8	8/10	25	25/26	31/40/41	40/41/51	51
Genoa Sheets	8/10	10/26	25/26	31/40	40/41/51	51/70/71	70/71
Spi. Sheets etc	8	10	10	25/26	31/40	40/41/51	51/70/71
Outhaul/Reefing	8	8	8	10	10	25/26	40/41

Murray Winches - (see page 28)

Main Halyard	-	1	1	1/4	4/5	4/5	5
Genoa Halyard	-	1	4	4	4/5	5	5/6
Genoa Sheets	1	4/5	4/5	5/8	5/8	8	8
Spi. Sheets etc	-	1	1	1/4	4/5	5	5/6
Outhaul/Reefing	-	-	-	1	1/4	4	4/5

Please note that the above figures are provided as an initial guide only



Murray bronze winches

Murray winches, developed in New Zealand for cruising boats, are bottom-action winches of massive but simple construction. Particular features include:

- the direction of rotation is easily reversible by flipping over the springs and pawls
- the drum is shaped to avoid riding turns
- they incorporate a top cleat (except 1 and 1H), which acts as a self-tailer for small adjustments
- ease of servicing, a screwdriver only being needed
- base mounted fairleads and winch stands are available for size 4 & 5 winches

Designation	Part Number	Max Rope dia. (mm)	Height (mm)	Drum Dia (mm)	Base Dia (mm)	Power ratio	
Mini	1	HL-1071	10	73	62	105	10.0:1
Mini	1C	HL-1072	10	94	62	105	10.0:1
Mini	1H	HL-1073	10	73	62	165 x 105	10.0:1
Mini	1CH	HL-1074	10	94	62	165 x 105	10.0:1
Minor	4	HL-1075	10	111	76	140	9.7:1
Murray	5	HL-1076	16	133	83	140	9.4:1
Massive	6	HL-1077	18	140	108	178	9.0:1
Major	8	HL-1078	18	168	108	200 x 168	9.0:1 / 40.0:1

All Murray winches come complete with a lock-in bronze handle

The “Mini” is available in two base versions - flat round base or a hinged base to ease fitting to a curved spar (suffix “H”). Either version is available with a top cleat (suffix “C” or “CH”).



Spares for Murray winches

Item	Part No	Applicatio
7” Winch Base	HL-1090	MW 4/5
9” Winch Base	HL-1091	MW 4/5
Pawl	HL-1080	MW 1
Spring	HL-1081	MW 1
Pawl	HL-1084	MW 4/5/6/8
Spring	HL-1085	MW 4/5/6/8

Winch handles

Length	Material	Applicatio	Lock-	Part
185mm	Bronze	Universal	Yes	HL-1110
245mm	Bronze	Universal	Yes	HL-1111
285mm	Bronze	Universal	Yes	HL-1112
180mm	Bronze	for EWLK	Yes	HL-1115
200mm	Bronze	for EWLP	Yes	HL-1116
185mm	Bronze	for DWL	No	HL-1117



Stainless Steel Stanchions

Height (mm)	Distance top to 2nd wire	Part No	Part No (gate)#
450	225	HL-0876	
500	250	HL-0878	
550	275	HL-0879	
610	305	HL-0880	HL-0886
630	300	HL-0881	HL-0887
680	300	HL-0882	HL-0888
680	225/225*	HL-0883	
750	360	HL-0884	HL-0889
750	250/250*	HL-0885	

* these stanchions have 3 wires

gate stanchions come complete with a strut at 45 degrees to the stanchion

Stainless Steel Stanchion Bases

	Square	Triangular	2 Bail
Straight	HL-0891	HL-0892	HL-0893
Angled*	HL-0895	HL-0896	HL-0897

* angled at 5 degrees

Gunmetal Stanchions

Height (in)	Base Type	Base Dimension	Part No
18"	Round	3" dia	HL-0860
18"	Square	3 ³ / ₈ " x 2 ¹ / ₄ "	HL-0861
28"	Square	3 ³ / ₈ " x 2 ⁵ / ₈ "	HL-0862
19 ¹ / ₂ "	-	1"	HL-0865*
24 ¹ / ₂ "	-	1"	HL-0866*
29 ¹ / ₂ "	-	1"	HL-0867*

* Base for HL-0865/6/7 is HL-0864

Brass Fiddle Rail Stanchions

Height	Part No (through)	Part No (end)	Part No (corner)
1 ¹ / ₄ "	CB-0175	CB-0174	CB-0176
2"	CB-0178	CB-0177	CB-0179

For rod size 3/8"

Brass Handrail Brackets

Dia of aperture	Part Number (through)	Part Number (end)
30 mm	CB-0170	CB-0171
24 mm	CB-0172	CB-0173

Gunmetal Rail Hinges

For rail size	Part Number	For rail size	Part Number
3 ¹ / ₄ " x 1 ³ / ₄ "	HL-0857	3 ³ / ₄ " x 1 ¹ / ₂ "	HL-0858

It is not really a good idea to fit stanchions less than 24" (610 mm) straight onto the deck. If too short they may help people trip over the side.



From left to right:
Stainless stanchion
Round-based gunmetal stanchion,
Square-based gunmetal stanchion,
Plain gunmetal stanchion





Rudder Gear - (pintles have pins and gudgeons have holes!)

The range of gunmetal fittings that we show on these two pages has been developed partly to suit stock designs, and also in response to individual needs. If what you require isn't here then - assuming your specification is reasonably "normal" - we will generally subsume the costs of patternmaking and add another piece to the range.

In broad terms we group the sets into "series" as follows:

- Series 1 - for boats up to about 12ft (4m) in length
- Series 2 - for boats from 10 to 20 ft (3 to 6 m)
- Series 3 - for boats from 16 to 25 ft (5 to 8 m)
- Series 4 - for boats up to about 35 ft (11 m) or so.

Within a series, you can mix and match to your heart's content, and for series 2, 3 & 4, you can specify a larger pin diameter. We supply rudder straps without fastening holes, since some need to match existing fasteners, others through-bolt, yet more use screws etc. etc.

For very light craft, such as sailing canoes, we tend to make up "ultra-lightweight" sets in bronze. These are always fabricated on a one-off basis. At the other end of the scale, we also have some patterns for larger craft up to 50 ft (15m)



Horizontal



Vertical



4 - Hole



3 - Hole

Transom fittings - bronze

Series 1

	Width	Depth	Pin offset	Pin dia (mm)	Gudgeon Part No	Pintle Part No
Horizontal	2 1/8"	3/4"	5/8"	10	HL-2120	HL-2150
3 - Hole	2 3/4"	1 3/4"	5/8"	10	-	HL-2152

Series 2

Horizontal	2 3/4"	7/8"	3/4"	10	HL-2220	HL-2250
4 - Hole	2 1/4"	1 3/4"	3/4"	10	HL-2226	HL-2256
Vertical	7/8"	2 3/4"	3/4"	10	HL-2222	-
3 - Hole	3 1/8"	2 1/8"	3/4"	10	-	HL-2254

Series 3

Horizontal	3 1/4"	1 1/4"	1"	12	HL-2320	HL-2350
4 - Hole	3 1/4"	2"	1"	12	HL-2324	HL-2354
Vertical	1 1/4"	3 1/4"	1"	12	HL-2322	-

Series 4

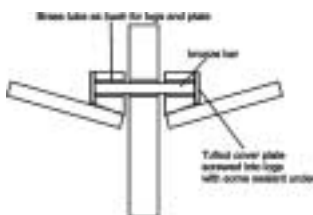
Horizontal	5 1/8"	1 1/2"	1 1/8"	19	HL-2420	HL-2450
4-Hole	5 1/8"	2 5/8"	1 1/8"	19	HL-2422	HL-2452

Key to tables

- A Width
B Depth
C Pin Offset

Centreplate Pivots

Rather than a conventional bolt with washers etc, we scheme these as per the picture. The pivot is supplied with bushing both for the plate case timbers and the plate itself. Each end of the pivot is covered with a small piece - about 2" x 2" - of tufnol which is screwed to the plate



Size	10 x 75	10 x 90	10 x 100	12 x 100	12 x 120
Part no	HL-2090	HL-2091	HL-2092	HL-2095	HL-2096



Rudder Straps - Series 1

A (inch)	B (inch)	C (inch)	Pin dia (inch)	Gudgeon Part No	Pintle Part No
3/4"	4	3/4"	10	HL-2100	HL-2130
1	4	3/4"	10	HL-2102	HL-2132
1 1/2"	4	3/4"	10	HL-2104	HL-2134
2	5	3/4"	10	HL-2106	HL-2136
2	6	3/4"	10	HL-2108	(cranked)

Rudder Gear

Key to tables

- A** Width between straps
- B** "Inside Leg"
- C** Depth of strap

Rudder Straps - Series 2

A (inch)	B (inch)	C (inch)	Pin dia (inch)	Gudgeon Part No	Pintle Part No
3/4"	4"	1"	10	HL-2200	HL-2230
3/4"	7"	1"	10	HL-2202	HL-2232
1"	4"	1"	10	HL-2204	HL-2234
1"	7"	1"	10	HL-2206	HL-2236
1 1/2"	5"	1"	10	HL-2207	HL-2237
1 1/2"	8"	1"	10	HL-2209	HL-2239
1 7/8"	5"	1"	10	HL-2208	HL-2238
1 7/8"	8"	1"	10	HL-2210	HL-2240
2 1/8"	5"	1"	10	HL-2212	HL-2242
2 1/8"	10"	1"	10	HL-2214	HL-2244
2 1/2"	5"	1"	10	HL-2216	HL-2246



Gudgeon

Series 2 Rudder blade pivots

Designed to go right through the rudder strap, these comprise a 5/16" (8mm) diameter bolt, complete with bushes nuts and washers.

For	Part No.
1 7/8"	HL-2265
2 1/8"	HL-2266
2 1/2"	HL-2267

Rudder Straps - Series 3

A (inch)	B (inch)	C (inch)	Pin dia (inch)	Gudgeon Part No	Pintle Part No
1"	8"	1 1/4	12	HL-2300	HL-2330
1 1/2"	5"	1 1/4	12	HL-2302	HL-2332
1 1/2"	9"	1 1/4	12	HL-2304	HL-2334
1 3/4"	6"	1 1/4	12	HL-2306	HL-2336
2"	5"	1 1/4	12	HL-2308	HL-2338
2"	9"	1 1/4	12	HL-2310	HL-2340
2 1/4"	9"	1 1/4	12	HL-2312	HL-2342
2 1/2"	9"	1 1/4	12	HL-2314	HL-2344
2 3/4"	9"	1 1/4	12	HL-2316	HL-2346
3"	9"	1 1/4	12	HL-2318	HL-2348



Pintle

Pin upgrades - bronze

	From	to	Part No.
Series 2	10	12	HL-2260
Series 3	12	16	HL-2360
Series 4	19	22	HL-2460

Hole upgrades are free of charge!

Finally, if you need a smart rudder head in bronze, we can quote against a sketch or pattern.

Rudder Straps - Series 4

A (inch)	B (inch)	C (inch)	Pin dia (inch)	Gudgeon Part No	Pintle Part No
1"	9"	1 1/2"	19	HL-2400	HL-2430
1 1/2"	9"	1 1/2"	19	HL-2402	HL-2432
2"	9"	1 1/2"	19	HL-2404	HL-2434
2 1/2"	9"	1 1/2"	19	HL-2406	HL-2436
3"	9"	1 1/2"	19	HL-2408	HL-2438
4"	9"	1 1/2"	19	HL-2410	HL-2440



Portlights and Deadlights

A bit of nomenclature may be in order. I'm not suggesting this is absolutely correct, but it is how we use the terms!

A **portlight** can be opened

A **deadlight** cannot

Both are measured by the size of the glass you can see through. The **spigot** is the bit that goes through the cabin side. The **finish ring** makes the other side look pretty.

The brass portlights, CE rated, are relatively lightweight, and recommended for estuary and/or river craft rather than ocean going vessels. They are also used quite often in houses and architectural applications.

The bronze portlights are heavy duty items - CE rated - which will serve in the most demanding environments.



Bronze Circular Deadlights - with finish rings

Opening	Overall	Spigot	Depth	Part No
4"	6 1/2"	4 7/8"	1 3/8"	CB-0570
5"	7 3/4"	5 1/4"	1 3/8"	CB-0573
6"	8 3/4"	6 7/8"	1 3/8"	CB-0574
100 mm	150 mm	120 mm	16 mm	CB-0579 (This one is brass)

Brass Circular Portlights - large

Opening	Overall	Spigot Dia (mm)	(25 mm deep)	(50 mm deep)
168 mm	264 mm	195	CB-0560	CB-0565
204 mm	300 mm	235	CB-0561	CB-0566
350 mm	470 mm	385	CB-0562	CB-0567

Bronze Circular Portlights - with finish rings

Opening	Overall	Spigot	Depth	Part No
4"	6 1/2"	4 7/8"	1 3/8"	CB-0600
5"	7 3/4"	5 5/8"	1 1/4"	CB-0601
6"	8 3/4"	6 7/8"	1 5/16"	CB-0602
8"	11 3/4"	9"	1 5/8"	CB-0604

Bronze Oval Lights - with finish rings

Opening	Overall	Depth	Deadlight	Portlight
6 3/4" x 4"	9 7/8" x 7 1/8"	1 1/8"	CB-0625	CB-0630
8 3/4" x 5"	12" x 8 1/8"	1 1/4"	CB-0626	CB-0631
11" x 6 1/4"	14 1/2" x 9 3/4"	1 1/4"	CB-0627	CB-0632



Prismatic Decklights

Melon

Round

Bulls eye

These have to be the most spectacular version of prismatic decklights. But please be careful to ensure that there is no chance of anyone cracking their head on them.

If you are short of headroom, these are the ones. Unless you need clear vision, these are also much better fitted to hatches than deadlights.

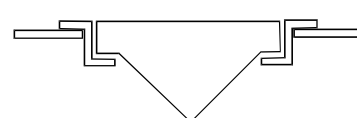
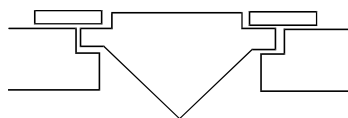
Please make sure to fit them as shown, flat face uppermost. Otherwise you may start a fire in the boat.

Diameter	7 3/4"	Diameter	4 3/4"	5 1/2"	8"	6"	8"
Depth	5 1/2"	Depth	3/4"	1"	1"	1"	1"
Part No	CB-0194	Part No	CB-0191	CB-0192	CB-0193	CB-0188	CB-0189

Rabbed

Deep Frame

Length	9"	10"	12 1/2"	9"	10"	12"
Width	3"	3 1/2"	4 1/2"	3"	3 1/2"	4"
Part No.	CB-0199	CB-0200	CB-0201	CB-0195	CB-0196	CB-0197



From top to bottom:

- Melon
- Prismatic Round
- Bullseye
- Rabbed
- Deep Frame

As shown in the above illustration, the "rabbed" decklights are designed to be fitted into a thick wooden deck - about 25mm minimum. The "deep frame" design is for fitting into thinner decks - eg steel - or into GRP sandwich construction.



Ventilators, brass

Rectangular

Type	6" x 3"	9" x 3"	9" x 6"
Hit & Miss	CB-0311	CB-0312	CB-0313
Louvre	CB-0316	CB-0317	CB-0318
Slotted	CB-0321	CB-0322	CB-0323
Square	CB-0326	CB-0327	CB-0328

Circular

Hit & Miss	3¾"	CB-0331	5"	CB-0332
Grille	6¼"	CB-0335		



Rectangular Vents - Hit & Miss, Louvre



Rectangular Vents - Slot-



Circular Vents - Hit & Miss, Grille

Deck Ventilators

Brass Cowl Vent

It is recommended that they are either fitted on a dorade box, or that a blanking plate is inserted when you are at sea.

Inside Diameter	2¼"
Height	8½"
Part Number (Complete)	HL-1584
Part Number (Spare Deck plate)	HL-1594



Cowl Vent - HL-1584

Bronze Dome Vent - Low

How waterproof are these? Well, you wouldn't fit one to the pressure hull of a submarine, but when closed, they are effectively waterproof. When open however, they are not, so avoid their use on a

Inside Diameter	2¾"	3¾"	4¾"
Height (min)	1⅜"	1⅜"	1¾"
Part Number	HL-1561	HL-1562	HL-1563

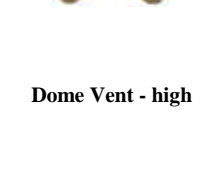


Dome Vent - low

Bronze Dome Vent - High

These have the advantage over the low dome vents that the odd bit of green water over the deck won't find its way into the boat. The trouble is that the upstand means that errant sheets etc can catch under the lip of the dome, either bending it or breaking it off. So be

Inside Diameter	3"	4"	5"	6"
Height (min)	3¼"	3¾"	4"	5¼"
Part Number	HL-1570	HL-1571	HL-1572	HL-1573



Dome Vent - high



Bronze Shell & Half Cowl Ventilators

For ventilating engine areas

Type	Width	Length	Height	Part No
Shell	4¾"	6"	2½"	HL-1576
Shell	6½"	7½"	2¾"	HL-1577
Half Cowl	3½"	2½"	5½"	HL-1578/9



Shell vent above,
Half Cowl Vent left

Toilet Roll Holder -

How did you ever manage without this toilet roll holder? Cast in bronze, with a wooden roller, it is the perfect accessory for the well-equipped yacht.
NB. Don't screw it to a Porta-Potti, it will make it leak.

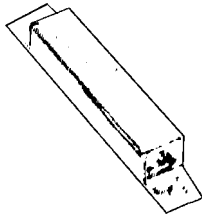
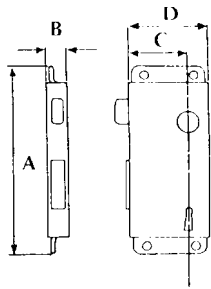
Foghorn - Polished brass

As used in the Times Clipper 2000 round the world race, and by yours truly to get a bridge raised on a French canal during lunchtime - don't ask!



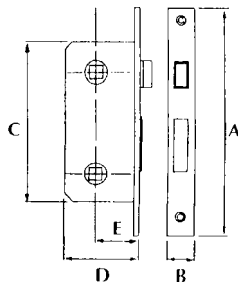


Brass Rim Locks & Latches



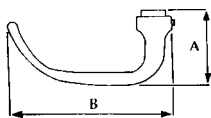
Description	A	B	C	D	Part Number	
Rim Latch	98	15	37	58	CB-0350	
Rim Latch	70	15	25	46	CB-0351	
Rim Lock	112	15	25	46	CB-0352	left inside
Rim Lock	112	15	25	46	CB-0354	right inside
Rim Lock	112	15	25	46	CB-0353	left outside
Rim Lock	112	15	25	46	CB-0355	right outside
Rim Lock	138	15	37	58	CB-0356	left inside
Rim Lock	138	15	37	58	CB-0358	right inside
Rim Lock	138	15	37	58	CB-0357	left outside
Rim Lock	138	15	37	58	CB-0359	right outside

Strikers for Rim locks

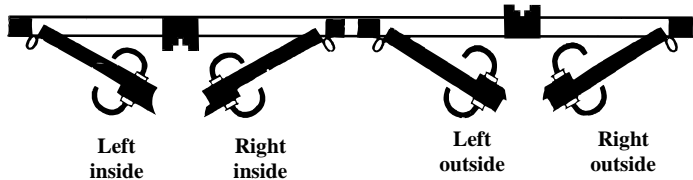


For Lock	Length	Width	Part No
CB-0351	70	15	CB-0370
CB-0350	98	15	CB-0371
CB-0352-5	112	15	CB-0372
CB-0356-9	138	15	CB-0373

Brass Mortice Locks & Latches



Description	A	B	C	D	E	Part Number
Mortice Latch	80	15	42	57	37	CB-0375
Mortice Lock (lh)	160	15	110 x 12	63	37	CB-0376
Mortice Lock (rh)	160	15	110 x 12	63	37	CB-0377



Door Handles

Description	A	B	Part No
Curved Handle	36	84	CB-0380
Medium Knob	29	53 x 27	CB-0381
Knob & Ring	29	53 x 27	CB-0382
	20	34 dia.	
Small Knob	27	37 x 21	CB-0383

Cylinder Rim Lock

These locks are designed for hatches etc. Opened on the one side with a key, you can open and close them on the other with a knurled knob - seen in the picture

Door thickness	Height	Width	Lock centre to edge	Part No
15 mm	98	57	37	CB-0400
20 mm	98	57	37	CB-0401



Handle Roses

Description	Dimensions	Part No
Round	45 mm dia.	CB-0390
Oval	53 x 27	CB-0391
Escutcheon	135 x 25	CB-0392



Hinges - "length" is along the pin, "width" is when open

Butt Hinges, narrow suite, brass

Length	1 1/4	1 1/2	2	2 1/2	3
Width	1 1/16	3/4	7/8	1 1/8	1 3/8
Part No	CB-0002	CB-0003	CB-0004	CB-0005	CB-0006



Butt Hinges, broad suite, brass

Length	1 1/2	2	2 1/2	3
Width	7/8	1 1/8	1 3/8	1 5/8
Part No	CB-0010	CB-0011	CB-0012	CB-0013

Butt Hinge comes in narrow & broad variants

Backflap Hinges, brass

Length	1 1/4	1 1/2	2
Width	1 7/8	2 3/8	3
Part No	CB-0015	CB-0016	CB-0017



Backflap Hinge

Fancy Backflap Hinges, brass

Style	A	A
Length	1 1/2	2
Width	2 1/2	3
Part No	CB-0008	CB-0009



Fancy Backflap

Light lift-off Hinge

Lift-off Hinges, brass, light

Length	2	2	2 1/2	2 1/2
Width	1 1/8	1 1/8	1 3/8	1 3/8
Hand	Left	Right	Left	Right
Part No	CB-0022	CB-0023	CB-0024	CB-0025



2x2 1/4 lift-off Hinge (left-handed)

Lift-off Hinges, brass, heavy

Length	1 1/4	1 1/4	2	2
Width	4	4	2 1/4	2 1/4
Hand	Left	Right	Left	Right
Part No	CB-0026	CB-0027	CB-0028	CB-0029

1/4 x 4 lift-off Hinge (right-handed)

Flush Hinges, brass

Length	2	2 1/2
Width	3/4	3/4
Part No	CB-0032	CB-0033

Flush Hinge



Lift-off Hinges:
With the hinge open, the countersinks towards you, and the pin upright, if the pin is on the right hand part of the hinge, it is right handed, and vice versa.

Counter Hinges, brass

Length	1 1/4"	1	1 1/4	1 1/2
Width	2 1/2"	3	4	4 1/2
Part No	CB-0034	CB-0035	CB-0036	CB-0037



Counter Hinge CB-0034



Counter Hinge CB-0035-7

Continuous Hinge, brass

Lengths of up to 6 feet (1.8 m) can be supplied. The dimension given is width when open.

Width	1	1 1/4	1 1/2
Light	CB-0340	CB-0341	CB-0342





Hooks & Barrel Bolts

Cabin Hooks, brass



Wardrobe Hooks.
From left to right
CB-0060, CB-0062, CB-0063

Length	2 1/2	3"	4"
Silent	CB-0055	CB-0056	CB-0057



Wardrobe Hooks, brass

Double	3" wide,	CB-0060	Single	1 3/4" projection	CB-0062
			Single	2" projection	CB-0063

Barrel bolts, brass

The dimension refers to the main body of the bolt, not the overall length.



Barrel bolts
Above, straight & necked
Below, wide

Length	1 1/2	2"	2 1/2	3"	4"
Straight	CB-0070	CB-0071	CB-0072	CB-0073	CB-0074
Necked				CB-0076	

Wide Pattern Barrel Bolts

Length x width (mm)	30 x 55	34 x 68	40 x 80
Part No	CB-0077	CB-0078	CB-0079



Rings & Handles

Flush Rings, brass

Rectangular	Part No	Circular	Part No
1 1/2 x 1 1/8	CB-0090	1 1/2	CB-0092
2 x 1 1/2	CB-0091	2	CB-0093
1 3/4" x 1 1/4", with catch	CB-0095	2 1/2	CB-0094
2 x 1 1/2 with catch	CB-0096		



Flush rings, rectangular, circular & with catch



Drop rings, plain & sprung

Drop Rings, brass

Plain	Part No	Sprung	Part No
3 x 5/8	CB-0099	82 x 20	CB-0097
		100 x 25	CB-0098

Drawer Handles, brass

This is the type to use - upside down - as a drip catcher for a portlight.

	Stamped	Cast, plain	Cast, ornate
3 3/4 x 5/8	CB-0155	CB-0156	CB-0157

Drawer Pulls, flush, brass

Style	A	B	B
Size	3 1/8 x 2	3 x 2	3 5/8 x 2 1/2
Part No	CB-0162	CB-0160	CB-0161



Drawer handles - pressed, plain



Drawer pulls, flush - Style A (left) & B (right)



Hasp & staples
CB-0111/2 left

Hasps & Staples

3"

CB-0111

Brass Letters & Numbers

Height (cm)	4	8	14	15
Letters	CB-1400	CB-1401	-	CB-1402
Numbers	CB-1410	CB-1411	CB-1412	-





Catches, brass

Sash & Hatch Fasteners

Light	2"	CB-0470
Holding Down Bolt	3" bolt	CB-0473

Toggle Catches

Vertical	3"	CB-0104
Flat		CB-0107
Right Angle		CB-0108
Lockable	3" x 2"	CB-0109

Cupboard Latches

Latch	CB-0395 (RH)	CB-0396 (LH)
Knob & Spindle	CB-0397	
Spindle only	CB-0398	
Key for spindle	CB-0399	



from left to right, Light hatch fastener, Holding down bolt, Vertical catch on right



Toggle Catches—from left to right, flat, right angle & lockable



Cupboard latches—from left to right, latch (rh), knob, spindle & key

Double Ball Catches

1 ³ / ₄	2"	2 ¹ / ₄
CB-0125	CB-0126	CB-0124

Casement Catches

1 ¹ / ₂ "	CB-0127
2"	CB-0128

Finger Catch

Backplate, 1 ¹ / ₈ x 5 ⁵ / ₈	CB-0129
--	---------

Teak Finger Rings

1 ¹ / ₄ x 5 ⁵ / ₈	1 ¹ / ₂ x 3 ³ / ₄	1 ¹ / ₂ x 3 ³ / ₈
CB-0130	CB-0131	CB-0132

Press-button Catches

A	13-19 mm	CB-0404
B	13mm deep	CB-0405
B	16mm deep	CB-0406
B	19mm deep	CB-0407
C	38mm deep	CB-0410

Catches—from left to right, double ball, casement 1¹/₂" & 2", & finger catch

The dimensions for the finger rings refer to the hole size needed in the door, and the depth of the ring under the shoulder



Press-button Catches - from left to right, style A,B,C
Style "A" requires an additional handle to open the locker, but the others listed incorporate their own handles

Turnbuttons

Turnbuttons on Plates

1 ³ / ₄	2
CB-0137	CB-0138

Turnbuttons only

1 ¹ / ₄	1 ¹ / ₂	2
CB-0139	CB-0140	CB-0141



Turnbutton on plate, turnbutton only

Table Leg Screws

Plates	Length	Dia	Part Number
Rectangular	3"	3 ³ / ₈ "	CB-0481
Round	3"	3 ³ / ₈ "	CB-0483
Round	2 ¹ / ₂ "	1 ¹ / ₂ "	CB-0484



Table Leg screws - l to r: CB-0481, CB-0483 & CB-0484



**Brass Dome Light
(on plinth)**



White Berth Light



Brass Mini Light



Brass Swivel Light

**Brass Dome Light
(plain)**

Electric Cabin Lights

Dome lights



Bracket Light

	Lens Dia	Overall Dia	Part Number
On plinth	4"	5½"	CB-0240
On plinth	5"	6¼"	CB-0241
Plain	4"	5½"	CB-0243
Plain	5"	6¾"	CB-0244



Bracket Light (switched)

Berth/bulkhead Lights

Description	Base	Projection	Part Number
White Berth Light	5¼" x 3"	3¾"	CB-0247
Mini Light	1½"	4½"	CB-0253
Swivel Light	2¾"	3¼" (height)	CB-0255
Bracket Light	4¼" high	3½"	CB-0256
Bracket Light (switched)	5" high	5"	CB-0257
Square Berth Light	5½" x 5"	Recess 1"	CB-0258



Square Berth Light

Exterior Lights

Guarded Light - Small	4¼" long	3" flange	CB-0276
Guarded Light - Large	7½" long	5" flange	CB-0277
Angled Guarded Light - Small	6½" long	3½" projection	CB-0278
Angled Guarded Light - Large	1½" long	4¼" projection	CB-0279
Round Bulkhead Light 150mm	Body 4½" dia, overall 6"	2½" projection	CB-0281
Round Bulkhead Light 190mm	190 mm over- all dia	95mm projection	CB-0282
Oval Bulkhead Light	Base 175 mm x 130 mm	95mm projection	CB-0286
Side Arm Wall Light	245 mm high	285mm projection	CB-0291



Guarded Light



**Side arm
Wall Light**



**Oval Bulkhead
Light**



**Bulkhead Light
- 190 mm**



**Bulkhead Light
- 150 mm**



**Angled Guarded
Light**



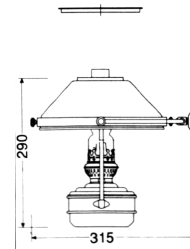
Gimballed Lamp - small



Gimballed Lamp -



Cuddy Lamp



Captain's Lamp



Berth Lamp

Oil Lamps

These lamps are not just for decoration; they are fully boat-worthy, being made from solid, heavy gauge brass, which is lacquered. And they create a wonderful glow. But please bear in mind that in terms of light output, they can't compete with incandescent mantles or filaments. They also generate considerable heat, so you will need some form of shade, and at least 6" clearance. Finally, to reduce soot and smell, you should always use actual lamp oil, not plain paraffin.

Description	Height (mm)	Width (mm)	Approx Burning time	Part Number (lamp)	Part Number (glass)	Part Number (wick)
-------------	-------------	------------	---------------------	--------------------	---------------------	--------------------

Gimballed Lamps

Gimballed Lamp - Small	340 (inc shade)	160	24	CB-0210	CB-1250	CB-1210
Gimballed Lamp - Large	325	160	55	CB-0211	CB-1255 & CB-1256	CB-1220
Cuddy Lamp	215	255	21	CB-0213	CB-1250	CB-1210
Captain's Lamp	290	315	65	CB-0214	CB-1260	CB-1225
Berth Lamp	305	160	50	CB-0218	CB-1255	CB-1220

Fixed Lamps

Table Lamp	325	110	55	CB-0220	CB-1255&6	CB-1220
Pantry Lamp	260	144	20	CB-0222	CB-1260	CB-1225
Galley Lamp	290	170	75	CB-0224	CB-1261	CB-1225
Wall Lamp	270	135	40	CB-0226	CB-1261	CB-1225

Hanging Lamps

Cabin Lamp	550	350	60	CB-0230	CB-1261	CB-1225
Globe Lamp - 7"	310	220	38	CB-0232	CB-1255	CB-1220
Globe Lamp - 10"	450	280	35	CB-0233	CB-1260	CB-1225
Trawler Lamp	320	165	30	CB-0237	CB-1257	CB-1223
Clipper Lamp	430	255	40	CB-0239	CB-1265	CB-1225



Table Lamp



Pantry Lamp



Galley Lamp



Clipper Lamp



Trawler Lamp



Globe Lamp



Cabin Lamp



Wall Lamp



Navigation Lights

Nothing quite so handsome as oil-burning navigation lights, not to mention the benefits of reduced battery drain while at anchor or on passage. The ones offered here are fully boatworthy, not dodgy imitations aimed more at “Ye Olde Pubbe” market. But are they legal? My understanding is that when the relevant regulations were drawn up covering navigation lights, oil lights were omitted. So therefore oil lights do not contravene current regulations. (This is an argument which I know has been deployed successfully by at least two skippers of MSA registered vessels!).



Masthead Light



Side Light

Oil Navigation Lights - data

Size	Height (mm)	Width (mm)	Burn Time (hours)
4”(Nav)	240	115	15
4”(Anchor)	240	110	25
6”	360	180	30
7”	455	195	65
8”	520	230	65
10”	560	250	65

Copper & Brass Oil Navigation Lights - part numbers

Would recommend copper over brass construction for long life in a salt



Anchor Light

Material	Size	Anchor	Masthead	Port	Starboard	Bi-colour	Stern
Copper	4”	HL-2001	HL-2002	HL-2003	HL-2004	HL-2005	HL-2006
Copper	8”	HL-2010					
Copper	10”		HL-2011	HL-2012	HL-2013		
Brass	4”	HL-2020	HL-2021	HL-2022	HL-2023		
Brass	6”	HL-2025	HL-2026	HL-2027	HL-2028	HL-2030	HL-2029
Brass	7”	HL-2035					
Brass	10”		HL-2040	HL-2041	HL-2042		

Please enquire for spares

Brass Navigation Lights - electric

Approved for vessels up to	Height	Depth	Width
	3 1/2”	2 3/4”	2 1/2”
Masthead		HL-1980	
Starboard		HL-1981	
Port		HL-1982	
Stern		HL-1983	
All-round		HL-1984	

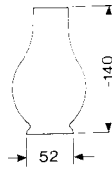
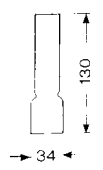
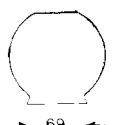

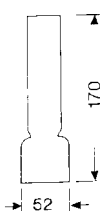
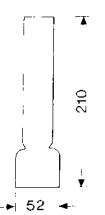
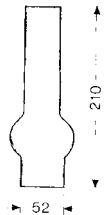
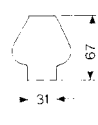


Hurricane Lamp if all else fails - this may do the trick! HL-2000 is the part number

Un fortunately a bi-colour is not available in this range.



Lamp Glasses

							
1" x 140	6" x 130	Opaque Globe	10" x 130	14" x 170	14" x 210	15" x 210	5" x 67 for nav/ anchor lights
CB-1250	CB-1255	CB-1256	CB-1257	CB-1260	CB-1261	CB-1265	CB-1266

Smoke Shades & Oil

Lamp Oil - 1 litre	CB-1200
Smoke Shade 6" arm, 4" shade	CB-2260



A smoke shade is essential if you are going to have oil lamps in the cabin. You need at least 3" clear of the top of the chimney, and 3" above the shade, preferably more.

Brass Galley Pumps

Description	Part No	cc per stroke	Hose Size	Barrel Dia.	Depth below	Height above	Reach	Service Kit
Base mounting	SY-1302	70	1/2"	30	160	140-300	140	SY-1318
Surface Mounting - vertical	SY-1307	75	1/2"	25	241	127-260	120	SY-1316
Surface Mounting - angled	SY-1308	75	1/2"	25	216	146-248	120	SY-1316
Lever Action	SY-1304	75	1/2"	38	76	216-298	150	SY-1315

Brass Faucet

Swivel	SY-1312	-	1/2"	-	50	120	125
--------	---------	---	------	---	----	-----	-----



Base Mounted pump
(SY-1302)



Surface mounted
SY-1307 above
SY-1308 below



Lever action
(SY-1304)



Faucet
SY-1312



Buoyancy Bags



For guidance on the amount of buoyancy required in open boats, see the reference section on the website.

Description	Size		Buoyancy kg	Part No
	inch	mm		
Small Bow	29 x 25 x 9	740 x 635 x 230	45	HL-0570
Standard Bow	36 x 30 x 12	915 x 760 x 305	136	HL-0571
Large Bow	42 x 44 x 14	1070 x 1120 x 355	193	HL-0572
Pillow	24 x 7	610 x 180	18	HL-0573
	30 x 9	760 x 230	27	HL-0574
	36 x 12	915 x 305	68	HL-0575
	39 x 9	990 x 230	35	HL-0576
	42 x 7	1070 x 180	27	HL-0577
	48 x 8	1220 x 200	45	HL-0578



Fuel fillers - hosetail left, BSP thread right

Webbing - 1" (25mm) lightweight - white

RP-0090

Brass Deck Fillers

If you have a thin deck - say less than 3/4" thick, then you can use hosetail fillers, and still get 2 hose clips on. Any thicker, and you are better off using the BSP fillers, and a connector to fit the hose.



Dinghy drain plug-
with captive bung
HL-0560

Brass drain plug-
fitted through hull
HL-0556 and HL-0557

	"Diesel"	"Water"	Plain
1/2" hosetail	SY-0250	SY-0252	-
2" hosetail	SY-0255	SY-0257	-
1/2" BSP thread	SY-0260	SY-0262	SY-0264
2" BSP thread	-	-	SY-0266

For Hose Connectors, see SY- 0280 to SY-0286

Drains

(See pictures on left)



Gunmetal drain plug-
with leather washer
HL-0551 to HL-0554

Dinghy Drain Plug	Max hull thickness 3/4", supplied complete with bolts			HL-0560
Brass Drain plug - 1/2" i.d.	HL-0556	3/4" i.d	HL-0557	
Gunmetal Drain plugs	Cut-out	Flange dia	Hull	
1/2" i.d.	3/4"	1 5/8"	5/16"	HL-0551
3/4" i.d.	1"	2"	3/8"	HL-0552
1" i.d.	1 3/16"	2 1/8"	3/8"	HL-0553
1 1/4" i.d.	1 1/2"	2 1/2"	3/8"	HL-0554



Bottom or Hose inlet
bilge pumps -
SY-1338 & 1339

Brass Bilge pumps

Description	Rated Capacity (litres)	Hose Size	Barrel Dia.	Part No
Bulkhead mounted - bottom inlet	10	3/4"	38	SY-1338
Bulkhead mounted - hose inlet - with clips	10	3/4"	38	SY-1339
Spare Brass clips	-	-	38	SY-1334



Sailmaker's Palm

"Best" quality, a notch or two up from the most basic, but not the ultimate in professional gear.

Right Hand

RS-0193

Left Hand

RS-0193

Sail needles

Pack of 5 assorted

RP-0191

Pack of 20 assorted

RP-0192



Speedy Stitcher

The Speedy Stitcher is effectively a manual sewing machine, which forms a lock stitch as it goes. It is suitable for a variety of materials, including canvas, leather, sailcloth and webbing, and comes complete with two needles and a bobbin of waxed thread

Complete Stitcher - RP-0180

Straight Needle

RP-0181

Short Needle
(finer gauge)

RP-0182

Curved Needle

RP-0183

Spare Thread - fine

RP-0184

Spare Thread - heavy

RP-0185

Spare Bobbin

RP-0186



Caulking Cotton & Tarred Marline

Cotton 0.5 kg ball
The strands can be separated or combined to provide the right thickness for the job.

RS-0160

Marline Heavy
0.75 kg ball
(approx 3 mm dia)

RS-0161

Marline medium
0.2 kg ball
(approx 2 mm dia)

RS-0162

Marline fine
0.2 kg ball
(approx 1 mm dia)

RS-0163



Oakum

2 kg pack -
RS-0170

25 kg bale -
RS-0171

Red Lead Powder

1 kg tin

PS-0080

Mix with linseed oil putty - about 1:10 - for underwater caulking.

White Lead Paste

3 kg tin

PS-0081

Mixed roughly equally with linseed oil putty for topsides caulking.

Whipping Twine

Whipping Twine -
Standard - 50 m
RP-0095

Whipping Twine -
Heavy - 25 m
RP-0096

Whipping Twine -
Heavy - Buff - 40 m
RP-0098

Seizing Wire

Monel 10m

RG-0168

Tallow - 250 g (8 oz) - PS-0170 - for sounding leads

Beeswax - 30 g (1 oz) - PS-0150 For waxing twine etc

Dubbin - 100 ml jar PS -0165

Traditional weather proof dressing. Dubbin preserves, protects, waterproofs and nourishes all leather products

Stockholm Tar - 1 kg tin - PS-0100

Meant to be for preserving natural fibre rope; but usually bought for the smell!

Lanocote Anti-corrosion Compound - 4 oz jar PS-0145

incorporates anhydrous lanolin for the protection of rigging and other metalwork in marine environment.





Materials

One of the more difficult things for those maintaining or building a traditional boat is obtaining suitable materials, in appropriate quantities, for the individual pieces of equipment which you always seem to need. We stock the following:

Convex Keelband/Rubbing Strip

Width	1/4"	3/8"	1/2"	5/8"	3/4"	1"
Brass	HL-0699	HL-0700	HL-0701	HL-0704	HL-0702	HL-0703

Phosphor Bronze - PB102

For notes on the properties and compositions of the various bronzes, see the reference section of the website.

Rod	1/4"/6mm	5/16"/8mm	3/8"	1/2"	5/8"/16mm	3/4"/19mm
Part No	MA-0104	MA-0105	MA-0106	MA-0108	MA-0109	MA-0110
Sheet	1.5 mm	3 mm	5 mm	6 mm	Strip	50 x 6 mm
Part No	MA-0120	MA-0121	MA-0122	MA-0123		MA-0127

Brass - CZ108

Used mostly for hatch runners and similar - where for some reason 1 1/4" x 1/8" seems to be favourite. If you are looking for protective strips either on the deck or keel, then keelband is a better bet.

Strip	3/4" x 1/8"	1" x 1/8"	1 1/4" x 1/8"	1 1/2" x 1/8"	2" x 1/8"	1 1/2" x 3/16"
Part No	MA-0161	MA-0162	MA-0163	MA-0165	MA-0166	MA-0167

Copper - C101

Sheet	0.4mm thick	Rod	1/4"	5/16"	3/8"	1/2"
	MA-0189	Part No	MA-0183	MA-0184	MA-0185	MA-0186

Rubber - black neoprene

This is stocked mainly for re-sealing portlights. What you do is get a length of the right section, stick the ends together to form a loop, and then, using just a few spots of glue, stick the loop into place. For older portholes, we have found that using round section is a good idea, even if the original was rectangular, because it compresses progressively, so absorbing the odd misalignments in an old porthole. Generally, it is not a good plan to use soft foam rubber, it only works for a short time.

5mm round	6mm	8mm	5mm x 5mm	6 x 6	6 x 3	5 x 3
MA-0262	MA-0261	MA-0260	MA-0265	MA-0266	MA-0267	MA-0268

Leather - 2-2.5mm thick - natural colour - MA-0300

A note on units

Like many in their prime of life (?), I think in feet and work in metres, having lived through the conversion from "British" to S.I. units. For those of you not obliged to convert, a few words of explanation might be a good idea, using round number conversions.

1 kg(mass) = 2.2 lb(mass). Mass is the amount of matter in a thing, whose weight is determined by whatever the acceleration happens to be at the time. Stood still, on Earth, the prevailing acceleration is due to gravity which is about 10 metres per second per second. So the force - or weight - of that 1 kg (mass) is 10 Newtons (N), or 1 kgf. Now kilogram force (kgf) isn't these days a proper unit to use, but is more convenient to visualise than Newtons. So one refers to 1300kg breaking load, where one should properly say 1300kgf or 13000N. For those who can't stand kg or N, it so happens that 1 ton - the 2240 lb type - is as near as makes no odds 1 tonne - the 1000 kg type - and the force aspect of things is usually implicit in commonly expressed weights, loads etc. By a neat irony an apple weighs about 1 Newton!

Pressures or stresses are forces applied over an area, such as tonf per square inch, Newtons per square metre (referred to as a Pascal(Pa)), or whatever. Because many of the things we are dealing with are millimetre sized - like wire and bolts and so on - N/mm² is the handiest even though it's not the pukka unit. It also happens to be the same numerically as megapascals - MPa - which is what most material properties are specified in. So 20 MPa = 20 N/mm². But use either, and you will need to divide by 10 to get to kgf, and a further 1000 to get to tonnes. The example here should confuse the issue suitably.

	S.I.	"handy"	"British"
Max allowable stress	500 MPa	500 N/mm ²	32 tsi
Size of plate	.025m x .008m	25mm x 8mm	1" x 5/16"
Area of plate	2 x 10 ⁻⁴ m ²	200 mm ²	5/16 in ²
Max load	1 x 10 ⁵ N	100,000 N or 10,000 kgf or 10 tonnes	10 tonf



Copper Boat Nails - Approx. No per Kilogram

Roves

We are often asked for special tools for driving the rove down the nail. For most applications, anything that works will do - like a suitably sized socket spanner.

	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	4"	5"	Size	No per Kilo
14g	1000	860	700	600	520					5/16"	2500
13g			500							3/8"	1460
12g	620	500	420	370	310	260	180			7/16"	940
11g					260	200	165			1/2"	680
10g			260		200	170	141	105		1/2"	680
9g						135	110			9/16"	500
8g							85	75	50	5/8"	400
6g								50	42	3/4"	240



Copper Boat Nail



Copper Rove

Brass Countersunk Woodscrews

2g x 3/8" to 12g x 3" FS-0260 to FS-0303 Larger sizes kept on irregular basis

Brass Round Head Woodscrews

4g x 1/2" to 8g x 1 1/2" FS-0321 to FS-0330 Larger sizes kept on irregular basis

Silicon Bronze Countersunk & Round Head Woodscrews

4g x 3/4" to 20g x 3" FS-1002 to FS-1118 Other sizes available

Silicon Bronze Bolts, Nuts & Studing

3/16" dia to 1" dia FS-1200 to FS-1378 Other sizes available

Nails, tacks & pins

Bronze Ringshank Nails "Gripfast" 14g x 3/4" to 8g x 3" FS-0153 to FS-0166

Brass Panel Pins 1/2" to 1" FS-0130 to FS-0133

Copper Tacks 1/2" to 1" FS-0135 to FS-0137

...and anything else you can think of!

A note on gauges etc.

There are moments when you wish Napoleon had been a bit luckier, and this is one of them.

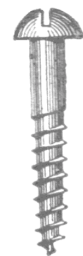
Woodscrews are gauged by **screw gauge** - listed opposite - where the bigger the number, the bigger the screw

Copper nails and **metal sheet** are dimensioned by **wire gauge**, where the bigger the number the thinner the nail or sheet. Wire gauges are:

16g	1.626mm	10g	3.251mm
14g	2.032mm	9g	3.658mm
13g	2.337mm	8g	4.064mm
12g	2.642mm	6g	4.877mm
11g	2.946mm	4g	5.893mm



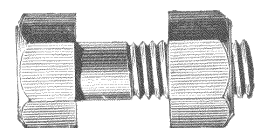
Countersunk Woodscrew



Roundhead Woodscrew



Coachscrew



Panel Pin



Tack





Wood Screw Data

Inch to Metric

Nominal		Clearance Pilot Hole			Inch	mm		
Gauge	Decimal	mm	Hole	Hardwood	Softwood	Metal		
							1/16"	1.587
							5/64"	1.984
2	.082	2.08	3/32"	1/16"	-	-	3/32"	2.381
3	.094	2.39	3/32"	1/16"	-	-	7/64"	2.778
4	.108	2.74	7/64"	1/16"	-	5/64"	1/8"	3.175
5	.122	3.10	1/8"	5/64"	-	-	9/64"	3.572
6	.136	3.45	9/64"	3/32"	1/16"	3/32"	5/32"	3.969
7	.150	3.81	5/32"	3/32"	1/16"	-	11/64"	4.366
8	.164	4.17	11/64"	3/32"	5/64"	7/64" or 1/8"	3/16"	4.763
9	.178	4.52	3/16"	7/64"	5/64"	-	13/64"	5.159
10	.192	4.88	13/64"	7/64"	5/64"	9/64" or 5/32"	7/32"	5.556
12	.220	5.59	15/64"	1/8"	3/32"	11/64" or 3/16"	15/64"	5.953
14	.248	6.30	1/4"	9/64"	7/64"	13/64" or 7/32"	1/4"	6.35
16	.276	7.01	9/32"	5/32"	1/8"	-	9/32"	7.143
18	.304	7.72	5/16"	11/64"	1/8"	-	5/16"	7.938
20	.332	8.43	11/32"	3/16"	9/64"	-	11/32"	8.731

Pilot Holes

Gauge	Gripfast		Boat nails		Inch	mm
	Hardwood	Softwood	Hardwood	Softwood		
14	1/16"	1/16"	1/16"	3/64"	1/2"	12.7
13	-	5/64"	5/64"	1/16"	9/16"	14.287
12	1/16"	5/64"	5/64"	1/16"	5/8"	15.875
11	-	3/32"	3/32"	5/64"	3/4"	19.05
10	5/64"	3/32"	3/32"	5/64"	1"	25.4
9	-	3/32"	3/32"	5/64"	1 1/4"	31.75
8	3/32"	7/64"	7/64"	3/32"	1 1/2"	38.1
6	-	1/8"	1/8"	7/64"	1 3/4"	44.45

Thread Comparisons

Metric			Imperial				Inch	mm
ISO metric	TPI	Pitch	UNC	Whit.	UNF			
M3 (0.118")	51	0.5	-	-	-	-	4"	101.6
M4 (0.158")	36.3	0.7	-	-	-	-	4 1/2"	114.3
M5 (0.197")	31.8	0.8	24	24	-	3/16" (0.187)	5"	127
M6 (0.236")	25.4	1.0	20	20	28	1/4" (0.250)	6"	152.4
M8 (0.315")	20.3	1.25	18	18	24	5/16" (0.312)	8"	203.2
M10 (0.394")	16.9	1.5	16	16	24	3/8" (0.375)	10"	254
M12 (0.472")	14.5	1.75	13	12	20	1/2" (0.500)	12"	304.8
M16 (0.630")	12.7	2.0	11	11	18	5/8" (0.625)		



Terms and Conditions of Sale

The products listed here come from many countries including the U.K., U.S.A., Denmark, Germany and Holland. Prices are shown on the separate price list and are subject to regular review due to fluctuating exchange rates and market conditions.



Directions to Classic Marine

(there's a map on the website)

From Midlands/London direction:

Along A14 to A12 turning - signed to Lowestoft
After 5 ish miles, turn right (5th roundabout)- signed "Woodbridge - Local Traffic"

*At mini roundabout turn right, signposted Martlesham.
Into Martlesham village and after about ¼ mile turn sharp left into Sandy Lane just before Spencer's garage.
After passing Complementary Health Centre on left, take first turning on right, keep to the right then turn left and drive past a row of units including Davey Lighting on your right. Bear left at the end of this row and Classic Marine will be straight ahead.*

From Lowestoft direction:

Down A12 onto dual carriageway near Wickham Market
Down that for about 6-7 miles, by-passing Woodbridge, then after signs for Park & Ride (2 miles), turn left at the next roundabout, doubling back towards Woodbridge. Follow signs for Martlesham.

Follow directions from ** above.

Stocks are held of the most popular items, but due to the breadth of the range we are unable to keep every product shown in the catalogue in stock. We will, however, always despatch stock items quickly, and advise as to the delivery on other items. A re-stocking charge of 15% may be made on returned stock items which have been correctly supplied. Items specially ordered or made to your specification are not returnable.

Postage charges in the UK **mainland** are as follows

- under 1.0 kg	£5.00	up to 90cm length
- 1.0 to 10 kg	£11.00	up to 3.0m length

Charges for longer packages, other areas of the UK, and overseas will be charged at cost, and advised before proceeding. Prices for export orders are F.O.B. U.K . VAT will be levied in accordance with current legislation.

We accept Visa, Mastercard and Switch/Maestro cards. Credit accounts for trade customers will be considered on production of a bank reference and three trade references.

Our normal opening hours are Monday to Friday 9.00 a.m. to 5.30 p.m. You are welcome to visit us in Woodbridge. If you wish to visit over the weekend, please phone during the week and we will try to arrange to be here.

CLASSIC MARINE

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