



The Bruce Anchor Mark 2

Materials, Lugs, Shackles

Anchor Material		Heat-treated cast alloy steel to BS3100 BT1						
Anchor Size		lb kg	1,320 600	2,205 1,000	4,409 2,000	6,614 3,000	14,331 6,500	19,843 9,000
	Safe Working Load	tons	17	25	35	50	100	130
Recommended Front Bow Shackle	Pin Diameter	ins	1½	2	2½	2½	3½	4½
		mm	44	51	57	73	98	111
	Body Diameter	ins	1½	1½	2	2½	3½	4
		mm	38	44	51	64	89	102
	Minimum Breaking Load	tons	102	150	210	300	500	650
	Safe Working Load	tons	9½	17	25	35	50	50
Recommended Rear Bow Shackle	Pin Diameter	ins	1½	1½/8	2	2½	2½	2½
		mm	32	44	51	57	73	73
	Body Diameter	ins	1½/8	1½	1½	2	2½	2½
		mm	29	33	44	51	64	64
	Minimum Breaking Load	tons	57	102	150	210	300	300
Anchor Front Lug	Calculated minimum yield load of lug for recommended shackle	lb	297,913	425,000	731,000	906,167	1,710,000	2,014,169
		kg	135,415	192,779	331,579	411,035	775,651	913,621
Anchor Rear Lug	Calculated minimum yield load of lug for recommended shackle	lb	183,348	300,000	500,000	676,707	1,004,000	1,004,000
		kg	83,340	136,079	226,799	306,952	455,411	455,411
Anchor Shank Strength	Allowable fluke loading in sand without exceeding yield stress (500MN/m ²) in shank	lb	177,012	229,000	363,000	476,000	815,000	990,000
		kg	80,460	103,874	164,656	215,912	369,682	449,061

CHASING:

The Bruce anchor is recognised as the ideal anchor design for chasing applications. Its fluke to shank separation eliminates any possibility of chaser jamming while its centre of gravity ensures an easy transfer from the semi-submersible's anchor rack due to the natural tendency of the anchor to tip forwards during this procedure. For the same reason, anchor lifting during retrieval is easy and the risk of the chaser slipping off the anchor, and picking up a bight of chain or mooring cable, is eliminated.

