

Black Magic[®] AirBlocks[®]



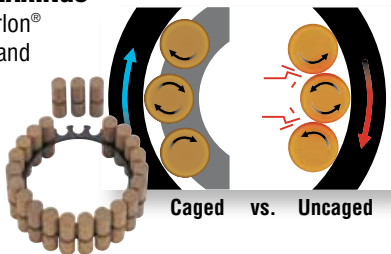
STRONG, LIGHTWEIGHT AND FREE-ROLLING

Weekend cruiser? Around-the-world racer? You'll want Black Magic[®] AirBlocks[®] aboard. With high strength-to-weight ratios and free-rolling high-load roller bearings, these versatile blocks are the workhorses of the Harken[®] line. Use for sail controls that see lots of action including mainsheet, runner, halyard, and spinnaker systems.

Available in 57, 75, 100, 125, and 150 mm sizes, and various configurations.

LOW-FRICTION CAGED BEARINGS

The center cage keeps Torton[®] roller bearings separated and parallel to reduce friction. Dirt and salt falls between rollers. Captive Delrin[®] balls carry sideloads.



STRONG, LIGHTWEIGHT SIDEPLATES & SHEAVES

CNC-machining removes excess weight.

Thin-profile, deep-groove aluminum sheave features radiused edges to protect line.

LONG-LASTING PROTECTIVE FINISH

Sheaves and sideplates are deep-saturation Hardkote-anodized for strength and durability, and UV-stabilized with black additive for maximum protection. Teflon[®]-impregnated for a smooth, slippery surface.

ISOLATED METALS

Dissimilar metals isolated to prevent corrosion: plastic isolators under all fastener heads and headposts.



THREE-WAY HEAD

Set screw in three-way head locks shackle in front or side positions, or lets block swivel to keep line from twisting.

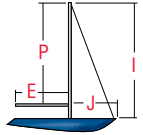


EASY MAINTENANCE

AirBlocks[®] are designed for easy maintenance. Three fasteners allow quick disassembly using an Allen wrench. Blocks have few parts, and there are no loose balls or rollers.

Tighten set screw to lock shackle in position, or loosen to allow block to swivel

Ordering Big Boat Blocks



Mainsheet

	Maximum mainsail area (P x E x .5 x 1.1*)													
	57 mm Low-load Black Magic®		57 mm High-load Black Magic®		75 mm Low-load Black Magic®/ 75 mm ESP		75 mm High-load Black Magic®/ 75 mm Stainless		100 mm Black Magic®/ 100 mm Stainless		125 mm Black Magic®		150 mm Black Magic®/ 150 mm Stainless	
End-boom	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²
Single Attachment	450	41	550	51	600	56	750	70	900	84	1250	116	1550	144
Multiple Attachment* †	500	46	675	63	720	67	900	84	1100	102	1500	139	1750	163
Mid-boom	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²
Single Attachment	400	37	400	37	450	42	550	51	700	65	1000	93	1375	128
Multiple Attachment*	450	41	575	53	600	56	700	65	950	88	1300	121	1525	142

*Assumes 10% roach †Assumes two or more shackles share load on both boom and deck

Running Backstays

	Maximum breaking load of runner wire													
	57 mm Black Magic® Air Runner®		75 mm Black Magic® Air Runner®/ 3" Stainless steel runner		4" Stainless steel runner		100 mm Black Magic® Air Runner		5" Stainless steel runner		125 mm Black Magic® Air Runner		150 mm Black Magic® Air Runner	
	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Flying Blocks	2500	1134	10000	4535	12500	5670	15000	6800	19000	8618	22000	10000	30000	13605
2:1 Separate Deck Blocks	3025	1372	12100	5490	15250	6920	17550	7960	23150	10500	26500	12020	36136	16388
2:1 Becket Deck Blocks	1875	850	7500	3400	9470	4295	10900	4945	16500	7485	16500	7485	22500	10204
3:1 Deck Blocks (Block #1)	3713	1684	14850	6735	18750	8505	21600	9800	28500	12928	32700	14835	44550	20203
3:1 Deck Blocks (Block #2)	4525	2052	18100	8210	22875	10375	26300	11930	34750	15760	39850	18075	54300	24625

Mastbase Lead Blocks

	57 mm Low-load Black Magic®/ESP		57 mm High-load Black Magic®/fixed MBL* blocks		75 mm Low-load Black Magic®/ Mastcollar post block/ 75 mm ESP		75 mm High-load Black Magic®/fixed MBL* blocks/ 75 mm Stainless		100 mm Black Magic®/ 100 mm Stainless		125 mm Black Magic®	
	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m
Main Halyard	47	14.3	52	15.8	60	18.3	74	22.6	80	25	90	27.5
Genoa Halyard	45	13.7	50	15.2	58	17.7	72	21.9	76	23.2	87	26.5
Spinnaker Halyard	47	14.3	53	16.1	60	18.3	74	22.6	82	25	93	28.4

*MBL = Mastbase Lead blocks

Spinnaker: Symmetrical/Asymmetrical

	Maximum spinnaker area (I x J x 1.8)													
	57 mm Low-load Black Magic®		57 mm High-load Black Magic®		75 mm Low-load Black Magic®/ 75 mm ESP		75 mm High-load Black Magic®/ 75 mm Stainless		100 mm Black Magic®/ 100 mm Stainless		125 mm Black Magic®		150 mm Black Magic®/ 150 mm Stainless	
	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²
Spinnaker Sheet, Tack Line	720	67	1200	111	1400	130	2000	186	2650	246	4300	400	5600	520
Afterguy*	790	73	1320	123	1500	140	2200	204	2900	269	4700	437	6100	567

*Assumes maximum deflection of 45° to winch

Single Genoa Footblocks

	Maximum 100% foretriangle sail area at 40 knots (I x J x .5)											
	57 mm Low-load Black Magic®		57 mm High-load Black Magic®		75 mm Black Magic®/ 75 mm Stainless		100 mm Black Magic®/ 100 mm Stainless		125 mm Black Magic®		150 mm Black Magic®/ 150 mm Stainless	
	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²
180° Turn	110	10	180	17	365	34	540	50	800	74	1100	102
120° Turn	125	12	210	20	420	39	630	59	920	85	1256	117
90° Turn	155	14	260	24	515	48	770	72	1130	105	1540	143

Double Genoa Footblocks

	Maximum 100% foretriangle sail area at 40 knots* (I x J x .5)									
	57 mm Low-load Black Magic®		57 mm High-load Black Magic®		75 mm Black Magic®		100 mm Black Magic®		125 mm Black Magic®	
	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²
180° Turn	75	7	120	11	240	22	360	33	530	49
120° Turn	85	8	140	13	275	26	415	39	610	57
90° Turn	105	10	175	16	340	32	510	47	750	70

*Based on load on upper sheave