



FRONT **HARKEN**[®]

Air 900



Welcome to the 2023 Harken Marine Catalog Supplement

The past two years have been such a challenge for so many, we wonder if sailors have even had time to notice some of the new equipment that's been introduced. In the spirit of taking nothing for granted, we're using this 2023 product supplement as a bit of a reprise. Inside you'll find brand new products. You'll also see products we've launched since 2020 along with early reaction from folks who have had experience using them. We hope you find their impressions helpful.

Here are a couple other reminders: you can download the most up-to-date flipbook, pdf version of the full Harken catalog at www.harken.com/catalog2023. You can find the broadest assortment of our products anywhere on our new website, www.harken.com. And if you'd like, you can subscribe to our newsletter "At The Front" which has our coolest new videos and other new stuff at harken.com/subscribe. We will not fill your email box unduly. We promise. Good sailing.



Craig Primiski

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Small Boat 40 mm Flip-Flop Blocks

Harken expanded the 57 and 75 mm small boat flip-flop blocks line to include the 40 mm size. Made to pivot around the line axis, Carbo Flip-Flop blocks are ideal for keeping line close to the deck. The hinged construction allows for a variety of lead angles and strengthened bases offer sailors confidence knowing it won't break under pressure. The sheaves run on a ball bearing system for fast trim and release under any load, and the blocks are UV-stabilized for maximum protection.



2181

2182
2183

Block pivots around the line axis to keep line entry height low.



All 57 mm and 75 mm Ratchamatic blocks are also available with Power3 sheaves which offer holding power options suitable for a variety of wind conditions. In addition, all 57 mm Ratchamatic blocks can be made with HTE (high threshold engage) sheaves to delay ratchet engagement, allowing them to run freely more of the time. Contact Harken for more information.

Part No.	Description	Sheave Ø		Width		Length		Height		Weight		Max line Ø		Maximum working load		Breaking load	
		in	mm	in	mm	in	mm	in	mm	oz	g	in	mm	lb	kg	lb	kg
2181	40 mm	1 9/16	40	1 3/4	43	3 3/16	81	2 1/8	54	1.6	45	3/8	10	300	136	750	340
2182	40 mm/150 Cam-Matic*	1 9/16	40	2 9/16	66	3 3/16	81	3 1/2	87	7	200	3/8	10	300	136	750	340
2183	40 mm/468 Micro Cam-Matic*	1 9/16	40	1 7/8	48	3 3/16	81	3 1/4	82	4.1	117	1/4	6	200	91	400	181
2142	57 mm	2 1/4	57	2	50	4 5/16	110	2 1/8	54	5	141	3/8	10	500	227	1584	718
2143	57 mm/150 Cam-Matic*	2 1/4	57	2 5/8	66	4 5/16	110	4 5/16	110	11	304	3/8	10	300	136	600	272
2144	57 mm Ratchamatic	2 1/4	57	2	50	4 5/16	110	2 5/8	66	5.5	156	3/8	10	500	227	1000	554
2145	57 mm Ratchamatic/150 Cam-Matic*	2 1/4	57	2 5/8	66	4 5/16	110	4 3/16	106	12	329	3/8	10	300	136	600	272
2678	75 mm	3	75	2 1/2	64	5 5/8	143	3 3/4	95	9.7	275	9/16	14	750	340	2426	1100
2679	75 mm/150 Cam-Matic*	3	75	2 5/8	66	5 5/8	143	5 9/16	141	17	485	9/16	14	300	136	600	272
2688	75 mm Ratchamatic	3	75	2 1/2	64	5 5/8	143	3 1/2	89	11	304	7/16	12	750	340	1500	680
2689	75 mm Ratchamatic/150 Cam-Matic*	3	75	2 5/8	66	5 5/8	143	5 3/8	137	18	514	7/16	12	300	136	600	272

*Maximum working loads and breaking loads for blocks based on cam strengths.



ZIRCON

EASE WHEN YOU NEED IT.

"A few of us started incorporating the Zircon bearings with the development of the GP mainsheet system on the Nacra 17 ahead of the Rio games. We've tested systems that were rigged with 10:1, 11:1, 12:1, even up to 14:1 purchases, which we now use on the A-Cat class. Even in light air it is still possible to ease sheets effectively. We used the commercial version of that system at the Enoshima Olympics. Since then, I've been using single sheave Zircon prototypes on my Exploder A-Cat and Bieker Moth. I move the test blocks around with me! I find you're much better engaged with the sail...you feel the trim differences much more acutely. They're more expensive for sure. But I like that Harken makes the highest quality products it can and leaves it up to the athletes to make up their own minds about what's best."

— **Riley Gibbs**
US Olympic Sailing Team





Each ceramic ball is much more expensive than any other material we've used. So, to keep the block from getting crazy pricy, Zircon blocks employ seven balls, a fraction of what our other blocks use.

Zircon Blocks

The core of the new Zircon blocks are industrial ceramic ball bearings mounted inside caged races. The cages keep these bearings apart so they don't bunch up, touch, and stop each other. The result is a VERY free-running block with less energy lost to friction than in even our current Carbo blocks. Give an unrigged Zircon block a strong spin, and it spins an incredibly long time.

Why ceramic bearing balls? Ceramic is a more familiar name for the metallic oxide Zirconia. Zircon bearings are more than 700% stronger in compression than stainless bearings of the same size. So, they won't deform if used within the recommended load limits. More importantly, they don't absorb as much energy before starting to roll. This becomes evident when you need to ease a sail in very light air. These blocks respond! You feel even the slightest fluctuations in sheet load. When used expertly, that means better sail shape and more speed.

For the same bearing sizes, ceramic withstands incredible compression loads, but beyond the limit, they tend to crush not flatten. So, apply them thoughtfully in your rig. We'll be the first to admit Zircon blocks are not for everyone. They're more efficient than other Harken small boat blocks, but more expensive too. Here's how we see it: 1. This is competitive. If we don't offer this level of performance, someone else might. 2. Sailors know best. If they try one and find value, they will buy more. The opposite is also true. We're good with that.



Part No.	Description	Sheave Ø		Length		Weight		Max line Ø	
		in	mm	in	mm	oz	g	in	mm
2190	40 mm Single	1 9/16	40	2 3/8	60	0.81	22.9	5/16	8
2191	40 mm Single w/becket	1 9/16	40	2 7/8	73	0.93	26.5	5/16	8
2192	40 mm Double	1 9/16	40	2 3/8	60	1.58	44.7	5/16	8
2193	40 mm Double w/becket	1 9/16	40	2 7/8	73	1.68	47.6	5/16	8
2195	57 mm Single	2 1/4	57	3 1/8	79	1.58	44.8	3/8	10
2196	57 mm Single w/becket	2 1/4	57	3 3/4	95	1.81	51.4	3/8	10
2197	57 mm Double	2 1/4	57	3 1/8	79	3.05	86.4	3/8	10
2198	57 mm Double w/becket	2 1/4	57	3 3/4	95	3.27	92.7	3/8	10

Performance figures unavailable at press time. Please consult the Harken website before purchasing.



45 mm Black Magic Blocks

The original Harken Black Magic Air blocks have earned their status as the performance standard among professionals who specify equipment for race and performance cruising boats. This year, we're offering the same serviceable, machined aluminum, caged roller performance in 45 mm sheave sizes. These blocks make Black Magic the appropriate choice for lines that are adjusted often while under load: sheets, guys, halyards, runners, etc., on smaller boats.



3391



3389



3390



3392



3393



3394



3395



3396

Performance figures unavailable at press time. Please consult the Harken website before purchasing.

Part No.	Description	Sheave Ø		Length		Weight		Shackle pin Ø		Max line Ø	
		in	mm	in	mm	oz	g	in	mm	in	mm
3389	Single loop**	1 3/4	45	2 1/2	63	2.01	57			3/8	10
3390	Double loop**	1 3/4	45	2 1/2	63	3.63	103			3/8	10
3391	Single/swivel	1 3/4	45	3 15/16	100	2.79	79	3/16	5	3/8	10
3392	Single/swivel/becket	1 3/4	45	4 3/4	120	3.39	96	3/16	5	3/8	10
3393	Double/swivel	1 3/4	45	4 3/16	106	6.88	195	1/4	6	3/8	10
3394	Double/swivel/becket	1 3/4	45	3 7/8	99	7.27	206	1/4	6	3/8	10
3395	Single stand-up*	1 3/4	45	3 11/16	94	3.95	112			3/8	10
3396	Single runner	1 3/4	45	2 13/16	71	2.89	82	5/16	8	3/8	10

*Includes padeye. 5 mm (#10) fasteners, fastener circle: 30 mm (1 3/16"). **Loop not included.

25 mm T-Track Genoa Lead Cars

We get it. Not everyone has Harken track. That's why we made an aftermarket 25 mm T-Track pinstop car. Using this car in place of an existing genoa lead car provides ease of adjustment without the hassle and expense of replacing existing track. T-Track cars have an integral pinstop to lock the car into position.

Note: T-Track genoa lead cars cannot be adjusted under load.

Skimmer, Balance 760 F, 22 m (78.12'), Du Toit Yacht Design
© Grant Scholtz / Two Oceans Marine Manufacturing

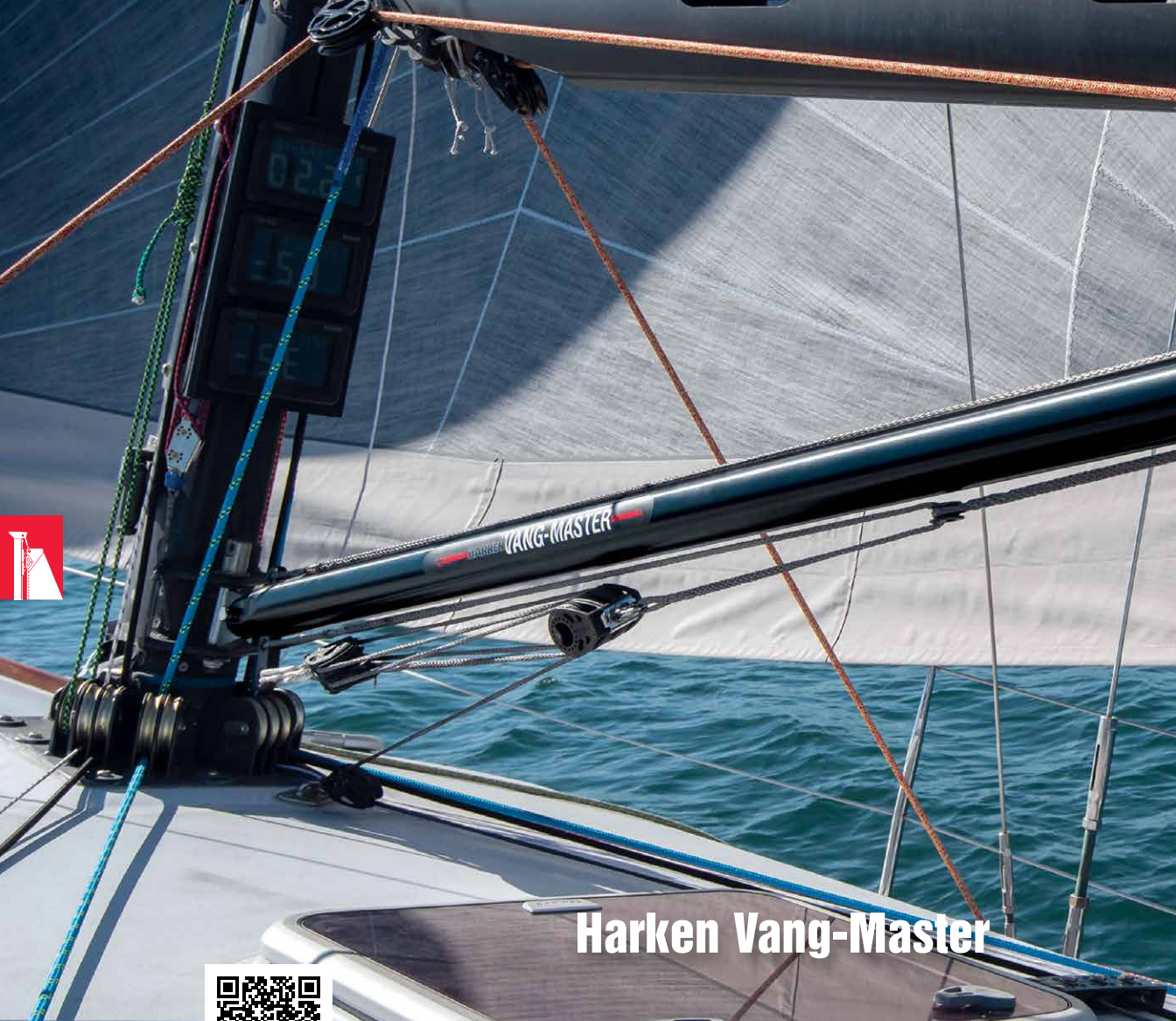


GT256S

Part No.	Description	Sheave Ø		Length		Width		Height		Weight		Max line Ø		Maximum working load		Breaking load		Track
		in	mm	in	mm	in	mm	in	mm	oz	g	in	mm	lb	kg	lb	kg	
25 mm T-Track																		
GT256S	Genoa lead car/pinstop*	2	51	4 11/16	118	2 3/8	59	4 3/8	110	16.8	475	1/2	12	2500	1134	5000	2268	25 mm***
32 mm T-Track																		
GT326S	Genoa lead car/pinstop*	2	51	5 1/8	130	2 3/8	59	4 7/16	113	22.1	626	1/2	12	3000	1361	6000	2722	3086****
40 mm T-Track																		
C4219	Genoa slider‡	4 1/2	114	9	229	2 9/16	65	8 7/16	214	104.6	2970	5/8	16	12860	5845	25720	11690	1888
C9577	Jib car/pinstop‡	5 15/16	150	11	279	2 9/16	65	10 3/4	273	312	8824	1	25	15435	7000	44092	20000	1888
C5754	Jib car/maxi sheave‡	5 1/2	140	11	279	2 9/16	65	9 1/4	235	184	5220	7/8	22	19625	8900	39249	17800	1888
C13260	Pinstop Car for 40mm*			3 7/8	98	2 1/2	65	1 7/8	47	16	460			11023	5000	2204	10000	1888
C9043	Pinstop Car for 40mm T-Track			4	102	2 1/2	63	2 3/8	61	59.3	1680			28660	13000	57320	26000	Custom
50 mm T-Track‡‡																		
C10948	Jib Car with Pinstop	7 7/8	200	14	356	3 3/8	86	14	355	442	12540	1 7/16	36	33069	15000	66138	30000	Custom
C9242	T-Track slider/puller tang‡	7 7/8	200	14	356	3 3/8	86	13 5/8	346	649	18400	1 1/8	28	50706	23000	101412	46000	Custom
C10901	T-Track slider/puller tang*	7 7/8	200	14	356	3 3/8	86	14	356	418	11837	1 1/8	28	50706	23000	101412	46000	Custom
C8774	Pinstop Car for 50mm T-Track			4	102	3 3/8	86	2 1/2	66	81.83	2320			28660	13000	5732	26000	Custom
C5834	Endstop for 50mm T-Track			3 3/8	85	1 1/3	33	1 1/8	28	28	790			7015	3182	14030	6364	Custom

*Aluminum **Stainless steel track only *** Compatible with most non-Harken 25 mm track ****Compatible with most 32 mm track

‡Contact Harken to request quote and lead time. ‡‡50 mm T-Track available. Contact Harken.



Harken Vang-Master



 **WATCH HARKEN
VANG-MASTER VIDEO**

Harken Vang-Master is squeak-free. Living proof: the rigid vang that's easier to live with, is also easier to specify, rig, and buy. Vang-Master mechanical vangs are pneumatic. Yes, they use air to hold booms up to the height you desire. Yes, they offer precise pressure adjustment to hold exactly that level. And yes, they offer owners the ability to select from a menu of external purchase systems with line pre-measured and spliced to all Harken hardware. But no, we're sorry there will be no fluid to leak or springs to squeak all night on your off-watch.

Construction is hardcoat-anodized 6061-T6 aluminum. Tubing and end fittings are threaded together to eliminate fasteners and dissimilar metals coming together and corroding. Units come in four different cylinder diameters, with Harken tech support and spare parts. There's a menu of 120+ build lengths for everything from Moore 24s to Andrews 70s to compare with your own pin-to-pin measurement. Replacing aging vangs is easier now. We're pumped!



“We have a Melges 32 turboed primarily for offshore racing with a longer sprit and extended main roach. That larger main, coupled with a Harken Vang-Master and Battcar system, gives us safe and predictable booms and reefing controls for any blasting downwind offshore race.”

— **Jason Bemis Owner, “Peerless”**
Sheboygan, WI USA

Part No.	Description	Pin center length (closed)		Pin center length (open)		Stroke		Weight		Pin Ø		Jaw width		Maximum return force	
		in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm	lb	kg
VM13240	Vang-Master 1	32	813	40	1016	8	203	2.75	1.25	3/8	10	1/4	6	350	159
VM24353	Vang-Master 2	43	1092	53	1346	10	254	3.4	1.54	3/8	10	1/4	6	350	159
VM33444	Vang-Master 3	34	864	44	1118	10	254	4.35	1.97	1/2	12.7	1/4	6	500	227
VM44656	Vang-Master 4	46	1168	56	1422	10	254	5.5	2.49	1/2	12.7	1/2	12	500	227
VM54860	Vang-Master 5	48	1219	60	1524	12	305	8.3	3.76	1/2	12.7	1/2	12	800	363
VM66274	Vang-Master 6	62	1575	74	1880	12	305	10	4.54	5/8	15.9	5/8	16	800	363
VM76274	Vang-Master 7	62	1575	74	1880	12	305	12.9	5.85	5/8	15.9	5/8	16	1500	680
VM87385	Vang-Master 8	73	1854	85	2159	12	305	14.6	6.62	5/8	15.9	5/8	16	1500	680

Ordering Vang-Master

Standard Vang-Master rigid vang are available for boats with vang fittings on the boom and mastbase. If your boat is not equipped with vang fittings, or if the fitting width or pin diameter will not fit jaw and pin sizes listed in the chart on the previous page, contact Harken for information on a custom vang.

1. Determine Vang Size and Create Part Number

Select the proper unit size from either the boat length chart at the top of this page or from the stock applications chart at the bottom.

Vang-Master sizes are based on boat sailplan and two dimensions you must measure:

PCLC: the distance between the center of the mounting pins at mast and boom with unit completely closed and the boom as low as it will ever go.

PCLO: the distance between the center of these mounting pins with the unit extended as far as you will ever want it to be.

Please note that you should measure and provide PCLC and PCLO dimensions even if your boat appears in stock application chart. Even one-design rig dimensions often vary.

2. Select Purchase System

Standard purchase systems are available for each Vang-Master size with 4:1 or 6:1 mechanical advantage in single- or double-ended configurations.

3. If Required: Select Mast and Boom Fittings

Determine if a rounded or flat fitting will provide the most integral boom mount.

Use the chart below to match the Vang-Master unit you have selected with the corresponding boom and mast fittings.

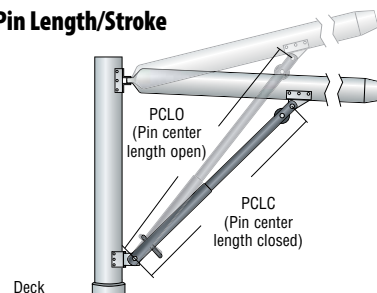
Select the correct fasteners (sold separately).

Use the chart information or the fitting itself to determine the correct hole spacing and location before drilling.

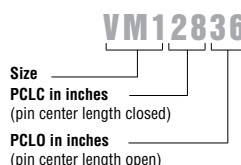
Typical Boat Lengths:

VM1 & VM2: 5.5 - 7.9 m (18' - 26')
 VM3 & VM4: 7.6 - 11 m (25' - 36')
 VM5 & VM6: 10.7 - 14 m (35' - 46')
 VM7 & VM8: 13.7 - 17.1 m (45' - 56')

Pin Length/Stroke



Part Number Guide



Stock Applications

Vang-Masters sized for production models are detailed below.

Please note, there may be rigging variation due to Class rule changes or equipment replacement.

VM-1

Moore 24
 Hot Foot 2
 Ultimate 20
 Santana 20

VM-2

J/80
 Cal 25
 Ultimate 24
 B-25
 Capri- 25
 J/24
 Merit 25
 M-24

VM-3

Cal 29
 Catalina 27
 Erickson 27
 Catalina 30
 J/27
 Olson 30
 Santana 3030

VM-4

Catalina 34
 Cal 28
 Cal 27
 Islander Bahama 30
 J/29
 J/30
 Evelyn 32
 J/105
 J/100
 J/133
 J/33
 Pearson 30
 Hunter 28
 Tartan 10
 Cal 31
 Ranger 33
 Pearson 34
 Sabre 30
 Hobbie 33
 Islander 36
 Antrim 27
 Sovereil 33
 Flying Tiger F-10
 J/99
 Henderson 30
 Farr Mumm 30
 M-32

VM-5

Erickson 35
 Santana 35
 Hunter 34
 Hans Christian 33
 C & C 38
 Catalina 38
 Catalina 36
 J/35
 J/111
 J/40
 J/37
 J/109
 Express 37
 Tartan 35
 Valiant 42
 Peterson 44
 Benetau First 38
 Bristol 35
 Grand Soleil 39
 Island Packet 35
 Hinckley Bremuda 40
 Hallberg Rassy 42

Cabo Rico 38
 Passport 40
 Sabere 42
 Antrim 40
 Cf 40
 Farr 40
 Farr 400
 Kirby 25
 Summit King 40
 Farr Mumm 36
 Summit 35
 Soto 40
 Benetau First 36.7

VM-6

Catalina 400
 Catalina 42
 Cal 40
 Cal 39
 J/122
 J/46
 X- Yacht 45
 J/120
 X- Yacht 38
 Swan 44
 Swan 43
 Cabr Rico 42
 Passport 42
 Moody 46
 Dufour 45
 Hylas 42
 Cheoy Lee Offshore 48
 Bristol 47
 Wauquiez 46
 J/125
 Dk 46
 Sydney 40
 Benetau First 40.7

VM-7

Catalina 47
 Santa Cruz 50
 Lidgard 45
 Morris 46
 Tp- 52
 X- Yacht 512
 Swan 48
 Swan 46
 Passport 54
 Columbia 50
 Dufour 520
 Hylas 54
 Andrews 56

VM-8

Jeanneau 57
 Santa Cruz 52
 Santa Cruz 70
 Andrews 70

Vang-Master Purchase Systems

Systems are pre-measured, spliced and supplied with line specifically selected for the application.



7501



7502



7503



7504



7505



7506



7500



7507



7508



7509



7510



7511

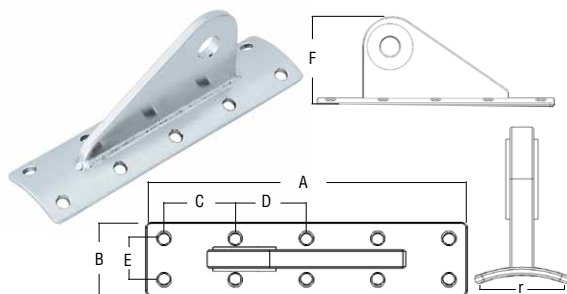
Part No.	Description	Purchase	Includes	Use with
7500	4:1 Single-ended 40 mm Carbo	4:1	(1) 2655 fiddle, (1) 2658 fiddle, 6 mm line	VM1, VM2, VM3
7501	4:1 Double-ended 40 mm Carbo	4:1	(1) 2638 double, (3) 2636 single, 6 mm line	VM1, VM2, VM3
7502	6:1 Single-ended 40 mm Carbo	6:1	(1) 2640 triple, (1) 2613 triple, 6 mm line	VM1, VM2, VM3
7503	6:1 Double-ended 40 mm Carbo	6:1	(1) 2640 triple, (1) 2638 double, (2) 2636 single, 6 mm line	VM1, VM2, VM3
7504	4:1 Single-ended 57 mm Carbo	4:1	(1) 2621 fiddle, (1) 2676 fiddle, 8 mm line	VM4, VM5, VM6
7505	4:1 Double-ended 57 mm Carbo	4:1	(1) 2602 double, (3) 2600 single, 8 mm line	VM4, VM5, VM6
7506	6:1 Single-ended 57 mm Carbo	6:1	(1) 2604 triple, (1) 2630 triple, 8 mm line	VM4, VM5, VM6
7507	6:1 Double-ended 57 mm Carbo	6:1	(1) 2604 triple, (1) 2602 double, (2) 2600 single, 8 mm line	VM4, VM5, VM6
7508	4:1 Single-ended 75 mm Carbo	4:1	(1) 2690 fiddle, (1) 2697 fiddle, 10 mm line	VM7, VM8
7509	4:1 Double-ended 75 mm Carbo	4:1	(1) 2662 double, (3) 2660 single, 10 mm line	VM7, VM8
7510	6:1 Single-ended 75 mm Carbo	6:1	(1) 2664 triple, (1) 2686 triple, 10 mm line	VM7, VM8
7511	6:1 Double-ended 75 mm Carbo	6:1	(1) 2664 triple, (1) 2662 double, (2) 2660 single, 10 mm line	VM7, VM8

Vang-Master Accessories

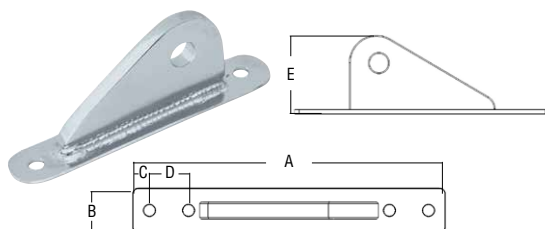
Harken offers Vang-Master boom fittings, mast fittings and pumps to accompany the vang. The stainless-steel fittings can be easily mounted, pivoting like a hinge to fit the mast. Sturdy hardware fits the boom appropriately for easy Vang-Master connection.



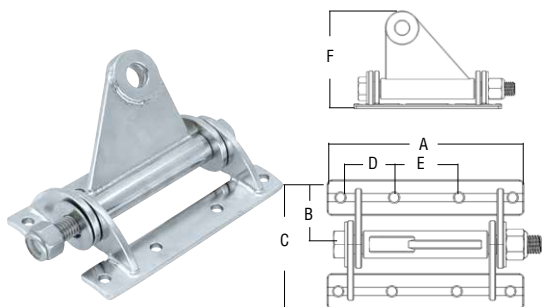
Lezyne stand-up and hand-held pumps fit naturally to the Vang-Master Schrader valve, helping adjust boom height and resistance level.



ROUNDED BASE BOOM FITTINGS



FLAT BASE BOOM FITTINGS



PIVOTING MAST FITTINGS



PUMPS

Part No.	Description	Fastener Size		No. of Fasteners	Pin Ø		Toggle Width		A	B	C	D	E	F	r
		in	mm		in	mm	in	mm							
Vang-Master Fittings															
VMB12	Rounded base boom fitting — units 1 & 2	1/4	6.35	8	3/8	9.5	1/4	6.35	5	1 1/2	1 3/8	1 1/4	3/4	1 3/8	1 3/4
VMB34	Rounded base boom fitting — units 3 & 4	1/4	6.35	10	1/2	12.7	1/4	6.35	6 1/2	1 5/8	1 7/16	—	1 1/8	2 1/8	1 3/4
VMB56	Rounded base boom fitting — units 5 & 6	1/4	6.35	10	1/2	12.7	3/8	12.7	6 1/2	1 5/8	1 7/16	—	1 1/8	2 1/4	1 3/4
VMBF12	Flat base boom fitting — units 1 & 2	3/16	4.8	2	3/8	9.5	1/4	6.35	4	3/4	3/8	—	1 3/8	—	—
VMBF34	Flat base boom fitting — units 3 & 4	1/4	6.35	4	1/2	12.7	1/4	6.35	7	1	3/8	7/8	2 1/8	—	—
VMBF56	Flat base boom fitting — units 5 & 6	1/4	6.35	4	1/2	12.7	3/8	9.5	7	1	3/8	7/8	2	—	—
VMM12	Pivoting mast fitting — units 1 & 2	1/4	6.35	3	3/8	9.5	1/4	6.35	4 1/4	7/8	2 5/8	1 3/4	—	2 1/4	—
VMM34	Pivoting mast fitting — units 3 & 4	1/4	6.35	4	1/2	12.7	1/4	6.35	4 3/4	1	3 1/2	1 3/8	1 1/4	2 7/8	—
VMM56	Pivoting mast fitting — units 5 & 6	1/4	6.35	4	1/2	12.7	1/2	12.7	5 1/2	1	3 5/8	1 1/2	1 7/8	3 1/2	—

Part No.	Description	Weight		Height (closed)	
		oz	g	in	mm
Vang-Master Pumps					
VMP2	Vang-Master pump/hand pump/Aluminium — Black	5.3	150	11 4/5	300
VMP3	Vang-Master pump/floor drive/Steel — Red	60	1700	25	635

System A Battcars

Harken's products for high-performance C-Tech battens provide stud and receptacle designs more robust than those required by traditional battcar systems and give sailors an expanding variety of sizes.

Harken added 12 mm and 12 mm long pintle cars to work with C-Tech battens, specifically requested for the Class 40 design with the durability required for short-handed offshore racing. The new size of pintles features an extended stud shoulder with a clearance fit so that the bending moment is moved away from the threaded section and ensures the load is consistent regardless of receptacle rotation.



Designed to work with batten receptacles from New Zealand's C-Tech Sailbattens, the pintles have shoulders that protect the threads from bending.



Part No.	Description	Length		Width		Weight		Max headboard thickness		Max batten Ø				Maximum working load		
		in	mm	in	mm	oz	g	in	mm	in	mm	in	mm	Batten	lb	kg
CB Cars: Typical Boat Length: Monohulls 11.3 - 15.2 m (37' - 50'); Multihulls 9.1 - 12.2 m (30' - 40')*																
3811*	Headboard car assembly	8 3/8	213	2 1/4	57	18	518	9/16	14						1600	725
3889	Headboard car assembly/quick-release	9 1/2	240	2 1/4	57	21.5	610	9/16	14						1600	725
3812*	Intermediate car**	2 1/4	57	2 1/4	57	4	109								465	211
3829*	Battcar/10 mm stud**	2 7/8	73	2 1/4	57	6	157								600	272
3830*	Battcar/40 mm receptacle	2 7/8	73	2 1/4	57	9	253			1 5/8	41	5/8	16	Flat/Round	600	272
3881	Battcar/12 mm stud**	2 7/8	73	2 1/4	57	6.4	182								600	272
3831	Universal Battcar**	2 7/8	73	2 1/4	57	4.3	122								600	272
3882	Long batten car/12 mm stud**	4 1/8	105	2 1/4	57	8.2	232								875	397
3883	Reef car	4 1/8	105	2 1/4	57	6.1	174								875	397
3901	Battcar/10 mm stud for C-Tech Batten	2 7/8	73	2 1/4	57	6	157								600	272
3908	Battcar/12 mm stud for C-Tech Batten	2 7/8	73	2 1/4	57	6.4	182								600	272
3909	Long batten car/12 mm stud for C-Tech Batten	4 1/8	105	2 1/4	57	8.2	232								875	397
Slider Cars: Typical Boat Length: Monohulls 11.3 - 15.2 m (37' - 50'); Multihulls 9.1 - 12.2 m (30' - 40')																
3827	Headboard car assembly**	6	153	1 3/8	35	10	269	9/16	14						1600	725
1777	Low-load intermediate car†	2	51	1 1/4	32	1.1	32								200	91
3828	Intermediate car	1 3/4	44	1 3/8	35	1.6	45								159	350
3802	Battcar/10 mm stud**	1 3/4	44	1 3/8	35	2.8	80								350	159
3803	Battcar/40 mm receptacle	1 3/4	44	1 3/8	35	6.38	181			1 5/8	41	5/8	16	Flat/Round	350	159
3902	Battcar/10 mm stud for C-Tech Batten	1 3/4	44	1 3/8	35	2.8	80								350	159
C14840	Intermediate car/quick-release pin	1 3/4	44	1 3/8	35	1.2	37								200	91

* Available as a non-CB car on a car loader to run on a non-CB style track supplied before 2003. Add .NW to end of part number.

† Max. sail area: Monohull 33 m² (350 ft²). Multihull 28 m² (300 ft²). **Batten receptacle not included.

MKIV OCEAN JIB REEFING & FURLING

MKIV furlers are some of the most preferred products in the Harken product line due to their high performance, reliability, and ability to be reconfigured for racing. Now, Harken offers MKIV Ocean with the same MKIV quality, but configured for the cruising sailor. It is engineered with strength, longevity, ease of use, at the right price without extra features cruisers might not need. MKIV Ocean has been exceeding Harken's projections due to how easy it is to assemble and outstanding quality.



"We recently got an opportunity to assemble and install some of the new Harken MKIV Ocean furlers. We are very impressed with the design and quality of these furlers, especially considering the very reasonable price on them. They're very easy to install, and the function is excellent. A huge upgrade over the ESP furlers which they replaced."

— **David Servais**
Owner, SD Boatworks



Designed for easy installation

- Small outside drum dimension fits narrow bows or belowdeck.
- C-shaped open connectors with low-friction plastic isolators easily slip onto headstay wire and into foil.
- Drum assembly fits over existing turnbuckle allowing easy length adjustment. Harken toggle assembly accepts standard turnbuckle using swage, rod, Norseman, or STA-LOK® terminals.
- Eye-jaw toggle flips for fork or tang chainplate installation.



Low-friction efficiency for easy furling and reefing

- Multiple rows of Torlon® ball bearings in high-load areas minimize friction.
- Stacked bearing races evenly distribute radial and thrust loads; drum and halyard swivel turn freely under load.
- Foils rotate around headstay so headstay load is isolated from the furling unit for easy furling.
- Large inner spool diameter increases mechanical advantage for powerful reefing and furling.

Stands up to sun, salt, and time

- Aluminum line guard, torque tube, and swivels deep-saturation hardcoat-anodized, UV-stabilized for durability.
- Line guard polyurethane-coated for wear protection.
- Specially formulated low-stretch black line is abrasion and UV-resistant; standard on units 0, 1, 2.
- Round foils handle extreme reefing loads.
- Triple-interlock foil joints withstand years of torque loading; foil connectors geometric shape interlocks with foil; secures with syringe-injected adhesive; screws provide final lock.

Torlon is a registered trademark of Solvay Advanced Polymers L.L.C.
STA-LOK is a registered trademark of STA-LOK Terminals.



MKIV Ocean Unit 0

Typical Boat Length 6.5 - 9.1 m (22' - 30')

Wire Ø (1 x 19 SS)	Rod Ø	Clevis pin Ø
4, 5, 6 mm (5/32", 3/16", 7/32")	-4, -6 (4.37, 5.03 mm)	7.9, 9.5, 11.1 mm (5/16", 3/8", 7/16")
Headstay Length Standard 11.77 m (38'7"); max 13.9 m (45'7")		
Part No.	Description	
7510.10	Furling system	
Toggle Assembly Required - sold separately		
7410.20 5/16	Eye/jaw reversible toggle assembly with 7.9 mm (5/16") clevis pin	
7410.20 3/8	Eye/jaw reversible toggle assembly with 9.5 mm (3/8") clevis pin	
7410.20 7/16	Eye/jaw reversible toggle assembly with 11.1 mm (7/16") clevis pin	
Optional Parts		
7510.30	Extra 2.13 m (7") luff foil extrusion	
7510.31	Extra 153 mm (6") connector with bushings	
7420 -4	-4 rod adaptor stud (thread Ø UNF 7/16") *	
7421 -6	-6 rod adaptor stud (thread Ø UNF 7/16") *	

*Use with conventional turnbuckle.



7510.31
7511.31

7420 -4
7421 -6
7422 -8
7423 -10
7424 -12



7410.20 5/16
7410.20 3/8
7410.20 7/16
7411.20 1/2



7311.20 1/2



7311.20 5/8



7510.10
7511.10

7311.21 1/2
7311.21 5/8

MKIV Ocean Unit 1

Typical Boat Length 8.3 - 11 m (28' - 36')

Wire Ø (1 x 19 SS)	Rod Ø	Clevis pin Ø
	-8, -10, -12 (5.72, 6.35, 7.14 mm)	
6, 7, 8 mm (1/4", 9/32", 5/16")	mm)	12.7, 15.9 mm (1/2", 5/8")
Headstay Length Standard 13.99 m (45'11"); max 16.12 m (52'11")		
Part No.	Description	
7511.10	Furling system	
Toggle Assembly Required - sold separately		
7411.20 1/2	Eye/jaw reversible toggle assembly with 12.7 mm (1/2") clevis pin	
7311.20 1/2	Jaw/jaw toggle assembly with 12.7 mm (1/2") clevis pin	
7311.20 5/8	Stud/jaw toggle assembly with 15.9 mm (5/8") clevis pin (thread Ø UNF 5/8" LH)	
7311.21 1/2	Long link plate with toggle assembly with 12.7 mm (1/2") clevis pin	
7311.21 5/8	Long link plate with toggle assembly with 15.9 mm (5/8") clevis pin	
Optional Parts		
7511.30	Extra 2.13 m (7') luff foil extrusion	
7511.31	Extra 178 mm (7") connector with bushings	
7422 -8	-8 rod adaptor stud (thread Ø UNF 1/2")*	
7423 -10	-10 rod adaptor stud (thread Ø UNF 1/2")*	

*Use with conventional turnbuckle.



Essence 33, 10.13 m, Hoek Design, Essence Yachts © Michel Hof/Essence Yachts photo

MKIV Ocean Unit 2

Typical Boat Length 10.6 - 14.2 m (35' - 46')

Wire Ø (1 x 19 SS)	Rod Ø	Clevis pin Ø
8, 10, 11 mm (5/16", 3/8", 7/16")	-12, -17, -22 (7.14, 8.38, 9.53 mm)	15.9, 19.1 mm (5/8", 3/4")
Headstay Length Standard 18.38 m (60'4"); max 20.51 m (67'4")		
Part No.	Description	
7512.10	Furling system	
Toggle Assembly Required - sold separately		
7412.20 5/8	Eye/jaw reversible toggle assembly with 15.9 mm (5/8") clevis pin	
7312.20 5/8	Jaw/jaw toggle assembly with 15.9 mm (5/8") clevis pin (thread Ø UNF 5/8" LH)	
7312.20 3/4	Stud/jaw toggle assembly with 19.1 mm (3/4") clevis pin (thread Ø UNF 3/4" LH)	
7312.21 5/8	Long link plate with toggle with 15.9 mm (5/8") clevis pin	
7312.21 3/4	Long link plate with toggle with 19.1 mm (3/4") clevis pin	
Optional Parts		
7512.30	Extra 2.13 m (7') luff foil extrusion	
7512.31	Extra 216 mm (8 1/2") connector with bushings	
7424 -12	-12 rod adaptor stud (thread Ø UNF 5/8")*	
7425 -17	-17 rod adaptor stud (thread Ø UNF 5/8")*	
7426 -22	-22 rod adaptor stud (thread Ø UNF 3/4")*	

*Use with conventional turnbuckle.

MKIV Ocean Unit 3

Typical Boat Length 13.7 - 24.4 m (45' - 80')

Wire Ø (1 x 19 SS)	Rod Ø	Clevis pin Ø
11, 12, 14, 16 mm	-22, -30, -40, -48	19.1, 22.2, 25.4, 28.6 mm
(7/16", 1/2", 9/16", 5/8")	(9.53, 11.1, 12.7, 14.3 mm)	(3/4", 7/8", 1", 1 1/8")
Headstay Length Standard 22.76 m (74'8"); max 27.03 m (88'8")		
Part No.	Description	
7513.10	Furling system*	
Toggle Assembly Required - sold separately		
7413.20 3/4	Jaw/jaw with short link plate with 19.1 mm (3/4") clevis pin	
7413.20 7/8	Jaw/jaw with short link plate with 22.2 mm (7/8") clevis pin	
7513.20 1	Jaw/Jaw with short link plate with 25.4 mm (1") clevis pin	
7513.20 1 1/8	Jaw/Jaw with short link plate with 28.6 mm (1 1/8") clevis pin	
7313.21 3/4	Long link plate with toggle with 19.1 mm (3/4") clevis pin	
7313.21 7/8	Long link plate with toggle with 22.2 mm (7/8") clevis pin	
7513.21 1	Long link plate with toggle assembly with 25.4 mm (1") clevis pin	
7513.21 1 1/8	Long link plate with toggle assembly with 28.6 mm (1 1/8") clevis pin	
Optional Parts		
7513.30	Extra 2.13 m (7') luff foil extrusion	
7513.31	Extra 254 mm (10") connector with bushings	
7426 -22	-22 rod adaptor stud (thread Ø UNF 3/4")**	
7427 -30	-30 rod adaptor stud (thread Ø UNF 7/8")**	
7428 -40	-40 rod adaptor stud (thread Ø UNF 1")**	
7429 -48	-48 rod adaptor stud (thread Ø UNF 1 1/8")**	

*Line not included. **Use with conventional turnbuckle.



7510.30
7511.30

7510.31
7511.31

7424 -12
7425 -17
7426 -22
7427 -30
7428 -40
7429 -48



7412.20 5/8

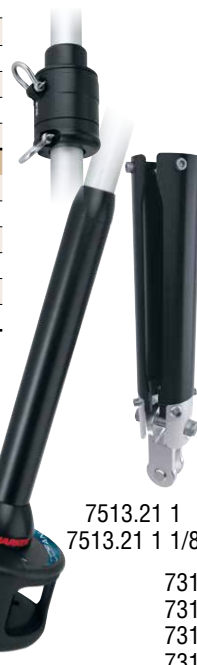
7312.20 5/8



7413.20 3/4
7413.20 7/8
7513.20 1



7312.20 3/4



7513.21 1
7513.21 1 1/8

7312.21 5/8
7312.21 3/4
7313.21 3/4
7313.21 7/8

7510.10
7511.10



CATALOG



224 - 22 mm single Micro block

Harken has been building sailing hardware for 50+ years. We often get excellent new product suggestions from sailors. Some of those become regular top sellers in our catalog. And then we hear, "You know, that product is great but could you make it just a little differently?" As a result, there's another group of products not everyone knows about that are very slight, purposeful, sometimes even obscure adaptations of the catalog pieces. We sell these at catalog, not custom, prices and carefully include them in the Peter's Desk Drawer collection.

When Peter's out of town, we slide the drawer open and check out what's inside—it's unpredictable. Perhaps a boat builder requested a modification for a new design. Maybe there's something in there just perfect for that traveler challenge you have. You never know what you'll find in the drawer. So look for Peter's Desk Drawer in the Complementary Hardware section of our website. If you don't find what you're looking for, please contact Harken Technical Service. Those guys remember just about every product we've ever made!



PART NO.

HBB329

75 mm Through-Deck —
180° Degree Wrap

*This is a through-deck
solution that handles wrap
angles up to 180-degrees.*



PART NO.

HSB510

29 mm Triple Carbo Block
— Becket, Cam Cleat

*A good solution for a sport
boat or cat mainsheet or
possibly the bottom of a VERY
powerful Cunningham system.*



PART NO.

HSB464

29 mm Carbo Air Block —
Removable Bolt

*Strong, low-friction, and
lightweight Carbo Air block
with removable bolt allowing
for connection to various
locations.*

PETER'S DESK DRAWER



HSB271



PART NO.

491SP

Stainless Steel
Offshore Cam-Matic

This cleat features two extra springs and a backing plate, both of which increase the reliability of the fitting.



PART NO.

HSB564

75 mm Ratchamatic
Flip-Flop Block - 1.5x Grip

Hinged construction allows for various lead angles and increased freedom for crews to move around.



PART NO.

**HBB68
HBB69**

Systems A/B and C
Headboard Plate with Liners

Classic headboards designed to be used with the next new main on a boat with early-generation Harken Battcar systems.



PART NO.

HSB555

Three 29 mm
Carbo Blocks on Ring

Use this set of three lightweight 348 29 mm single Carbo blocks on a 1.25-inch ring for the Melges IC37 jib hobbie.



PART NO.

HSB294

16 mm Block —
Removable Sheave

Like HSB271 above, this a special version of an existing block with a removable sheave. The sheave rivet has been replaced with a clevis pin and cotter ring.



PART NO.

HSB439

22 mm Fiddle Block

Our smallest fiddle block, created by merging a 225 Micro becket block - for the larger sheave to accept 5 mm line - with a 16 mm single block.



PART NO.

HBB328

57 mm Aluminum Block —
Stand-Up Spring

Stand up block alternative providing easy access to the padeye mountings.



PART NO.

HSB429

57 mm Single Ratchet Block
— with 093 U-Adapter

Switchable ratchet offering for a unique dinghy mainsheet mount requirement.

55.3 PERFORMA WINCH

Harken Performa winches combine all the high-strength/lightweight benefits of the internal composite roller bearings and bushings found in our Radial line, with the sandblasted grip of Harken carbon fiber racing winches. The result is a line of powerful performers for lots of applications. Optimized to handle the dense, durable covers of today's high-strength line, Performa winches are a great solution for crew who need high-performance winches in smaller sizes than our Grand Prix options. Options include self-tailing, plain-top, or Quattro styles. Performa winches are available in manual, electric (12- or 24-volt), or hydraulic driven models.



ClubSwan 36, 11 m (36'), naval architect: Juan Kouyoumdjian © Nautor's Swan/Studio Borlenghi/Stefano Gattini

Part No.	Ø				Line entry height (LE)				Line Ø				Fastener circle		Fasteners (SH or HH)		Gear ratio			Power ratio		
	Drum (D) in mm	Base (B) in mm	Height (H) in mm	Weight lb kg	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in mm	1	2	3	1	2	3	
Classic Plain-Top																						
B6A	238	60	39/16	90	31/4	82	1.5	0.7	15/16	33					29/16	65	6x1/4FH	6x6FH	1		84	
B8A	211/16	68	41/2	115	39/16	90	2.4	1.1	11/2	38					39/16	90	4x5/16FH	4x8FH	1		75	
Plain-Top																						
20.2PTP	278	73	53/8	137	51/16	128	4.4	2	23/8	61					43/8	110	5x1/4*	5xM6	1	2.76	6.95 19.2	
35.2PTP	318	80	57/8	149	513/16	148	6.8	3.1	31/8	79					47/8	123	5x1/4*	5xM6	2.13	5.65	13.50 35.90	
40.2PTP	318	80	63/16	157	6	153	7.7	3.5	31/4	82					47/8	123	5x1/4*	5xM6	2.13	6.28	13.50 39.90	
46.2PTP	315/16	100	71/4	184	71/16	179	11.3	5.1	39/16	90					57/8	150	5x5/16	5xM8	2.30	9.17	11.70 46.50	
50.2PTP	45/16	110	711/16	195	71/2	190	13	5.9	313/16	97					57/8	150	5x5/16	5xM8	2.40	10.90	11.10 50.40	
Self-Tailing																						
20STP	278	73	53/8	137	513/16	148	5.3	2.4	23/8	61	1/4	6	1/2	12	43/8	110	5x1/4*	5xM6	2.76		19.20	
35.2STP	318	80	57/8	149	611/16	170	7.9	3.6	31/8	79	5/16	8	1/2	12	47/8	123	5x1/4*	5xM6	2.13	5.65	13.50 35.90	
40.2STP	318	80	63/16	157	67/8	175	8.4	3.8	31/4	82	5/16	8	1/2	12	47/8	123	5x1/4*	5xM6	2.13	6.28	13.50 39.90	
46.2STP	315/16	100	71/4	184	715/16	202	11.5	5.2	39/16	90	5/16	8	9/16	14	57/8	150	5x5/16	5xM8	2.30	9.17	11.70 46.50	
50.2STP	45/16	110	711/16	195	85/16	212	13.2	6	313/16	97	5/16	8	9/16	14	57/8	150	5x5/16	5xM8	2.40	10.90	11.10 50.40	
50.3STP	45/16	110	711/16	195	85/16	212	15.0	6.8	313/16	97	5/16	8	9/16	14	57/8	150	5x5/16	5xM8	1	2.40	10.90 4.3 11.10 50.40	
55.3STP	45/16	110	711/16	195	85/16	212	15.0	6.8	33/16	97	5/16	8	9/16	14	57/8	150	5x5/16	5xM8	1	2.40	11.85 4.3 11.10 55.20	
60.2STP	43/4	120	95/16	236	911/16	246	22.5	10.2	49/16	116	5/16	8	5/8	16	8	204	6x5/16	6xM8	4.80	14.4	20.30 61.00	
60.3STP	43/4	120	95/16	236	10	253	25.8	11.7	49/16	116	5/16	8	5/8	16	8	204	6x5/16	6xM8	2.20	4.80	14.40 9.20 20.30 61.00	
70.2STP	51/8	130	97/16	240	101/16	256	24.9	11.3	41/2	115	3/8	10	5/8	16	81/8	205	6x5/16	6xM8	5.70	18.50	22.20 72.00	
70.3STP	51/8	130	97/16	240	103/8	264	28.3	12.8	41/2	115	3/8	10	5/8	16	81/8	205	6x5/16	6xM8	2.30	5.70	18.50 9.00 22.20 72.00	
80.2STP	67/8	175	115/16	287	129/16	320	46.8	21.2	67/16	164	3/8	10	11/16	18	93/16	233	8x3/8	8xM10	9.94	32.12	28.85 93.24	
80.3STP	67/8	175	115/16	287	127/8	327	50.1	22.7	67/16	164	3/8	10	11/16	18	93/16	233	8x3/8	8xM10	2.76	9.94	32.12 8.01 28.85 93.24	
Quattro																						
40STQP	318**	80**	71/8	180	67/8	175	10.2	4.6	31/4**	82**	5/16	8	1/2	12	47/8	123	5x1/4*	5xM6	2.13	6.28	13.50 39.90	
46STQP	315/16†	100†	81/2	218	715/16	202	13.7	6.2	39/16†	90†	5/16	8	9/16	14	57/8	150	5x5/16	5xM8	2.30	9.17	11.70 46.50	

*SH only. **Refers to upper drum. Lower drum Ø = 154 mm (6 1/16"); line entry height = 24 mm (15/16").

†Refers to upper drum. Lower drum Ø = 188 mm (7 13/32"); line entry height = 24 mm (15/16").



Maximum holding power for high-tech line

- Sandblasted drums and ribs optimized for halyard and sheeting applications using small-diameter, high-strength line.

Trim and ease sails quickly and easily

- Patented angle of ribs drives line wraps down when easing to keep them on area of drum that provides best control.
- Transfer high loads to the winch with fewer wraps.

High-strength, lightweight

- Lightweight aluminum drum features an integrated skirt.
- High-strength composite roller and ball thrust bearings reduce friction under load.
- Load-carrying gears and pins are 17-4 PH stainless steel for strength, corrosion resistance.

DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.

CLR Mooring Winch

DAME
CATEGORY WINNER
2018

CLR is Harken's line of flush-stowing, deck-mounted powered winches designed to provide precision docking assistance for sail and power yachts. The CLR winch drum geometry is completely unique. Five aluminum columns rotate together around a center axis. Working together, they provide substantially more line-holding power and low-speed torque than would be available using a traditional drum — at a fraction of the weight.

This design solution is why no other retracting, flush-mounted winch comes close to the power-for-size ratio offered by the CLR. It stows completely below deck and intrudes less horizontally or vertically in the limited headroom available down there. The CLR is also significantly lighter than all competitors, while delivering comparable mechanical advantage.

This compact form makes it possible for yachts to mount two CLR winches at the stern quarters and one in the bow. Together, three CLR's reduce the need for engine and thruster power while helping crews vector the boat to the perfect stern-to-dock trim. The CLR offers internal LED lights at the bottom of each column for use in low-light mooring situations.

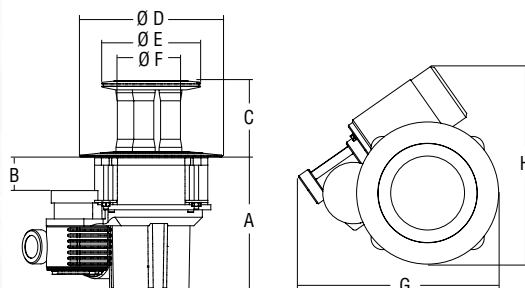
The CLR line-up has expanded to 14 products, with maximum holding load ranges from 600 to 12000 kg. Both electric and hydraulic drives are available. CLR mooring winches can be used on boats from 13.7 to 91.4 m (45'-300') If desired, deck plates in aluminum, chrome, or wood grain finishes are available to coordinate with the surrounding deck.



LED lights are integrated at the bottom of each column for low-light mooring situations.



CLR Mooring Winch



Winch size	Line Ø				Max line speed*		Maximum holding load		Maximum pulling load		Boat length**		Deck plate material			
	Min in	mm	Max in	mm									Alumi-num (A)	Chrome (C)	Stainless steel (SS)	Custom (TC)
Electric																
CLR600E	1/2	12	11/16	18	59	18	1320	600	660	300	45-60	13.7-18.3	✓	✓	—	✓
CLR1200E	1/2	12	11/16	18	49.2	15	2640	1200	1320	600	60-90	18.3-27.4	✓	✓	—	✓
CLR2500E24V	1/2	12	15/16	24	55.8	17	5500	2500	2750	1250	90-120	27.4-36.6	✓	—	✓	✓
CLR2500E400V	1/2	12	15/16	24	65.6	20	5500	2500	2750	1250	90-120	27.4-36.6	✓	—	✓	✓
CLR4000E24V	5/8	16	13/16	30	75.5	23	8800	4000	4400	2000	120-190	36.6-57.9	✓	—	✓	✓
CLR4000E400V	5/8	16	13/16	30	59	18	8800	4000	4400	2000	120-190	36.6-57.9	✓	—	✓	✓
CLR8000E	7/8	22	13/8	35	72.2	22	17600	8000	8800	4000	190-250	57.9-76.2	✓	—	✓	✓
CLR12000E	7/8	22	19/16	40	7.2	22	26400	12000	13200	6000	250-300	76.2-91.4	✓	—	✓	✓
Hydraulic																
CLR600H	1/2	12	11/16	18	59	18	1320	600	660	300	45-60	13.7-18.3	✓	✓	—	✓
CLR1200H	1/2	12	11/16	18	49.2	15	2640	1200	1320	600	60-90	18.3-27.4	✓	✓	—	✓
CLR2500H	1/2	12	15/16	24	55.8	17	5500	2500	2750	1250	90-120	27.4-36.6	✓	—	✓	✓
CLR4000H	5/8	16	13/16	30	72.2	22	8800	4000	4400	2000	120-190	36.6-57.9	✓	—	✓	✓
CLR8000H	7/8	22	13/8	35	72.2	22	17600	8000	8800	4000	190-250	57.9-76.2	✓	—	✓	✓
CLR12000H	7/8	22	19/16	40	7.2	22	26400	12000	13200	6000	250-300	76.2-91.4	✓	—	✓	✓

*Line speed is measured with no load.

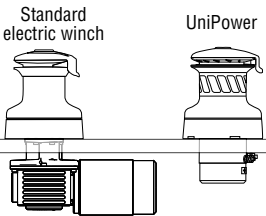
**Approximate data.

Dimensions

Winch size	B																	
	A		Min		Max		C		D		E		F		G		H	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Electric																		
CLR600E	9 13/16	250	5/8	15	2 15/16	75	4 5/16	110	7 7/8	200	5 11/16	144	3 11/16	94	12 17/32	318	14	355
CLR1200E	9 5/16	237	5/8	15	2 5/32	55	5 5/16	135	9 27/32	250	6 27/32	174	4 11/16	119	13 5/8	346	13 25/32	350
CLR2500E24V	9 13/16	250	5/8	15	2 5/32	55	5 1/8	130	12 3/16	310	8 7/32	209	5 1/2	140	15 15/16	405	16 9/16	420
CLR2500E400V	12 1/16	307	5/8	15	2 5/32	55	5 1/8	130	12 3/16	310	8 7/32	209	5 1/2	140	22 19/32	574	20 9/32	515
CLR4000E24V	19 3/8	492	25/32	20	4 23/32	120	9 5/8	244	14 3/8	365	9 5/8	244	7 9/32	185	22 1/16	560	23 13/16	605
CLR4000E400V	25 1/32	636	25/32	20	4 23/32	120	9 5/8	244	14 3/8	365	9 5/8	244	7 9/32	185	19 1/32	483	30 3/8	771
CLR8000E	26 1/2	673	31/32	25	4 3/16	106	9 3/4	247	16 3/4	425	12 3/16	309	9 27/32	250	24 13/32	620	43 13/16	1113
CLR12000E	29	736	31/32	25	4 3/16	106	12 3/16	310	16 3/4	425	12 3/16	309	9 27/32	250	24 13/32	620	43 13/16	1113
Hydraulic																		
CLR600H	9 13/16	250	5/8	15	2 15/16	75	4 5/16	110	7 7/8	200	5 11/16	144	3 11/16	94	12 17/32	318	14	355
CLR1200H	9 5/16	237	5/8	15	2 5/32	55	5 5/16	135	9 27/32	250	6 27/32	174	4 11/16	119	13 5/8	346	13 25/32	350
CLR2500H	9 13/16	250	5/8	15	2 5/32	55	5 1/8	130	12 3/16	310	8 7/32	209	5 1/2	140	15 15/16	405	16 9/16	420
CLR4000H	19 3/8	492	25/32	20	4 23/32	120	9 5/8	244	14 3/8	365	9 5/8	244	7 9/32	185	22 1/16	560	19	482
CLR8000H	26 1/2	673	31/32	25	4 3/16	106	9 3/4	247	16 3/4	425	12 3/16	309	9 27/32	250	24 13/32	620	30 7/16	773
CLR12000H	26 1/2	673	31/32	25	4 3/16	106	12 3/16	310	16 3/4	425	12 3/16	309	9 27/32	250	24 13/32	620	30 7/16	773

UniPower Winches

The UniPower is a single-speed winch that combines the advantages of a low-profile manual winch with the power of a 12-, 24-, or 48-volt, low-amp-draw motor. What makes it unique is that the motor is partially imbedded inside the drum, so that it extends only 105 mm (4 1/8") below the winch base—a critical feature for small boats where space under the cabintop is limited.



Low-profile electric motor saves headspace.



Eckernförde, Saare 38, 11.40 m, Karl-Johan Stråhlmann, Saare Yachts
© Saare Yachts



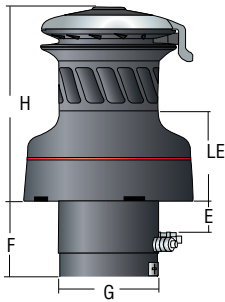
Works with handle if power is unavailable.



500UPW

Dimensions

Part No.	Line entry height (LE)		E		F		G	
	in	mm	in	mm	in	mm	in	mm
500UPWA/C	3 1/4	83	1 7/8	48	3	76	3 5/16	85
900UPWA/C/CW/CCC/BBB	3 15/16	100	1 3/8	35	4 1/8	105	5 1/2	140



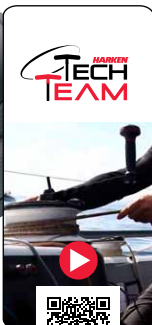
Part No.	Ø		Base		Height (H)		Weight		Line Ø				Fastener circle		Fasteners (SH or HH)		Max pull	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm	in	mm	in	mm	lb	kg
500UPWA	3 7/8	99	5 3/4	146	7 7/8	200	15	6.7	5/16	8	9/16	14	4 7/8	123	5 x 1/4	5 x M6	1102	500
500UPWC	3 7/8	99	5 3/4	146	7 7/8	200	18	8.3	5/16	8	9/16	14	4 7/8	123	5 x 1/4	5 x M6	1102	500
900UPWA	4 3/8	110	7 1/2	190	8 1/2	215	26.5	12	5/16	8	9/16	14	6 5/16	160	5 x 5/16	5 x M8	1984	900
900UPWC	4 3/8	110	7 1/2	190	8 1/2	215	32	14.5	5/16	8	9/16	14	6 5/16	160	5 x 5/16	5 x M8	1984	900
900UPWCW	4 3/8	110	7 1/2	190	8 1/2	215	32	14.5	5/16	8	9/16	14	6 5/16	160	5 x 5/16	5 x M8	1984	900
900UPWCCC	4 3/8	110	7 1/2	190	8 1/2	215	34.6	15.7	5/16	8	9/16	14	6 5/16	160	5 x 5/16	5 x M8	1984	900
900UPWBBB	4 3/8	110	7 1/2	190	8 1/2	215	34.6	15.7	5/16	8	9/16	14	6 5/16	160	5 x 5/16	5 x M8	1984	900

Air Winch 900

Harken Air winches are available in six models. First came the 250, 300, 550, and the 600. Now we've introduced the newest and largest model the Air Winch 900, which was designed at the request of teams in the 100' foiling Ultime class. These multihulls are among the most sophisticated race boats in the world. They generate incredible loads that often must be managed by a singlehanded sailor. At the same time, these boats must be as light as possible to lift onto their foils in less breeze than the competition.

The newest Air winch provides a massive 9000 kg working load but does this without being massive — weighing just 31 kg. That's 24% lighter than Harken's previous generation 1130 which is not an Air winch and still remains the market's second lightest. The closest non-Harken offering weighs 77% more.

All Air winches feature interchangeable gearing sets that give crews the flexibility to create a perfect blend of speed and power for each day's weather and crew configuration. The winches, which feature a nearly empty middle to reduce weight, are now routinely found aboard IMOCA 60s, TP52s, and other large Grand Prix boats, plus the SailGP foiling cat fleet.



Air winch aboard a TP52

Product not stocked. Contact Harken to request quote and lead time.

Part No.	Gear ratio			Power ratio		
	1	2	3	1	2	3
Air winch 250	1.34:1	6.40:1	25.42:1	3.42:1	16.27:1	64.57:1
Air winch 300	1.34:1	6.40:1	25.42:1	3.42:1	16.27:1	64.57:1
Air winch 550	1.30:1	10.58:1	47.98:1	2.21:1	17.92:1	81.25:1
Air winch 600	1.30:1	10.58:1	47.98:1	2.21:1	17.92:1	81.25:1
Air winch 900	3.12:1	13.11:1	67.17:1	4.34:1	18.25:1	93.48:1

Part No.	Ø		Base		Height		Weight		Line Ø				Line entry height		Fastener circle		Fasteners
	in	mm	in	mm	in	mm	lb	kg	Min	mm	Max	mm	in	mm	in	mm	mm
Air winch 250	7 7/8	200	10 21/32	271	5 3/4	146	16.1	7.3	3/16	5	3/8	10	1 15/16	50			
Air winch 300	7 7/8	200	10 21/32	271	6	153	17.0	7.7	3/16	5	3/8	10	2 1/4	57	8 9/32	210	5 x M8
Air winch 550	11 13/16	300	14 15/16	380	6 7/8	174	27.3	12.4	1/4	6	1/2	12	2 7/16	61			
Air winch 600	11 13/16	300	14 15/16	380	7 3/16	182	32.6	14.8	1/4	6	1/2	12	2 3/4	69	12 13/16	325	7 x M10
Air winch 900	14 3/8	365	18 1/8	460	10 1/8	257	70.6	32	3/8	10	7/8	22	3 5/8	92	16 7/16	417	10 x M12

"Team Banque Populaire is very satisfied with the quality of manufacture of the Airwinch 900. These winches are compact, reliable, and easy to maintain. The small number of components as well as the standardization of springs and axles saves time during reassembly. In addition, the weight saving is very significant compared to other winch types of the same power."

— Edouard Touchard, Design Team
Team Banque Populaire, Lorient, France



Line Tensioners

Harken lightweight line tensioners provide the pull that prevents excess slack in sheets and halyards that contributes to winch overrides. Powered belts in both in-line and through-deck tensioners engage both sides of the line, doubling effective grip and pulling force. They are available with either electric or hydraulic power.



CT1: 90-DEGREE LINE TENSIONER

Use with winches from 3T to 9T.
Sealed roller bearing sheave.
Mounts above or belowdeck.
Symmetrical for right hand/left hand mounting.
Handle 80-degree to 120-degree line wraps.



CT2: IN-LINE TENSIONER

Use with winches from 3T to 25T.
Two independently-powered rubber belts drive line off winch drum. Carbon-fiber cover keeps tensioner clean and safe.



CT0: IN-LINE TENSIONER

Right in line with the trend toward under-deck captive reel winches on even smaller boats, our newest tensioner is designed to work with our smallest captives from 1.5 to 3T. It is available for hydraulic or 12-volt systems.



CT3: 90-DEGREE THROUGH-DECK TENSIONER

Use with winches from 3T to 25T.
300 mm sandblasted sheave handles line load.
Synchronized rubber belt adds additional grip.
Stainless steel, anodized aluminum, or carbon cover.
Waterproof sealed roller bearings.



CT5: 45-DEGREE THROUGH-DECK TENSIONER

Use with winches from 3T to 25T.
45° line deviation minimizes line stress at high loads.
Stainless steel, anodized aluminum, or carbon cover.
Waterproof sealed roller bearings.

CT4: 180-DEGREE THROUGH-DECK TENSIONER

Use with winches from 3T to 18T.
300 mm sandblasted sheave handles line load.
Synchronized rubber belt adds additional grip.
Stainless steel, anodized aluminum, or carbon cover.
Waterproof sealed roller bearings.



CT6: 90-DEGREE THROUGH-DECK TENSIONER

Use with winches from 25T to 35T.
300 mm sandblasted sheave handles line load.
Synchronized rubber belt adds additional grip.
Stainless steel, anodized aluminum, or carbon cover.
Waterproof sealed roller bearings.

CT7: 90-DEGREE THROUGH-DECK TENSIONER

Use with winches from 50T to 70T.
300 mm sandblasted sheave handles line load.
Synchronized rubber belt adds additional grip.
Stainless steel, anodized aluminum, or carbon cover.
Waterproof sealed roller bearings.

Single-Acting Integral Backstay Adjusters

Harken's integral hydraulic backstay adjuster provides the power to optimize sail shape quickly for racers and adjust mast tension for smoother furling for cruisers. The cylinder features a built-in, single-acting pump.

Every unit includes a hardcoat-anodized aluminum cylinder and pump, valve, and stainless pump handle with two attachment options: 1) a roll pin, that when installed, locks the handle permanently, 2) the roll pin can be left off and the handle may be inserted when needed, but stored separately. Cylinders include a clevis pin on both ends. A fiberglass position indicator attached to the top clevis pin slides down the cylinder as it's retracted for repeatable tension settings. Standard eye-jaw toggles fit all Harken cylinders and are recommended on all installations.

The pressure-release knob turns clockwise to close and pump, counterclockwise to release. When closing the pump, the knob cannot be over-tightened by hand, preventing damage to the valve. Release speed depends on how far open the knob is turned. Pressure relief is factory set to prevent crew from over-tensioning the backstay.

Harken integral backstay adjusters come in four sizes to fit boats 9 - 18 m (30 - 60') with stay diameters of 5 - 10 mm (7/32 - 3/8").

Harken recommends attaching a toggle to the cylinder's bottom clevis to accommodate stay movement. Standard eye-jaw toggles fit all Harken cylinders.

Supplied fiberglass position indicator provides easy visual reference to duplicate desired tension settings.

For replacement position indicator assembly, order part number H-85275.

"We got the backstay measurement right for how we sail the boat and we plugged in the new integral unit. We won our first regatta. So no complaints."

— **David Jarvis**
J-105 "Hey Jude"
Toronto, Canada



Wine & Spirits, GS 48, 14.90 m (48.9') © Fabio Taccola / Grand Soleil Yachts

Part No.	- Size	Max wire Ø		Stroke		Pin center length (closed)*		Weight**		Gap/pin Ø		Pull force ‡	
		in	mm	in	mm	in	mm	lb	kg	in	mm	lb	kg
HCI006BCC	-6	7/32	5.5	14.17	360	30	762	8.36	3.79	7/16	11.1	3770	1710
HCI010BCC	-10	9/32	7	14.17	360	30	762	8.36	3.79	1/2	12.7	4710	2136
HCI012BCC	-12	5/16	8	14.17	360	30	762	9.72	4.41	5/8	15.9	6710	3043
HCI017BCC	-17	3/8	9.5	14.17	360	30	762	9.72	4.41	5/8	15.9	8390	3808

*For pin center length open (PCLO) add stroke length to pin center length closed. **Rod ends (forks) included in weights.

‡ Relief valves are preset to limit max tension (pull force) to recommend rigging loads and cylinder design limits. Each cylinder provides a specific max pull force.



SMALL BOAT BLOCKS



BIG BOAT BLOCKS



COMPLEMENTARY HARDWARE



TRAVELERS & GENOA LEADS



MAINSAIL HANDLING SYSTEMS



HEADSAIL HANDLING SYSTEMS



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