



Ordering Jib Reefing & Furling

1. Choose Furler Type

The table below is based on sailing style and approximate boat size. This table is only a guideline. Do not use it to determine unit size. Size is based on the headstay and clevis pin diameters listed on unit pages.

Comparison Chart

	MKIV Racers/performance cruisers	MKIV Ocean Cruisers
Note: Typical boat lengths are listed as a guideline but are not the determining factor. Check with Harken if your length varies.		
Typical boat lengths	Unit 0: 6.5 – 9.1 m (22 – 30') Unit 1: 8.5 – 11 m (28 – 36') Unit 2: 10 – 14.2 m (35 – 46') Unit 3: 13.7 – 18.3 m (45 – 60') Unit 4: 19.8 – 24.4 m (65 – 80')	Unit 0: 6.5 – 9.1 m (22 – 30') Unit 1: 8.3 – 11 m (28 – 36') Unit 2: 10.6 – 14.2 m (35 – 46') Unit 3: 13.7 – 24.4 m (45 – 80')
Foils	Double-groove Air foil Stainless steel feeder	Single-groove round foil Stainless steel feeder
Halyard and tack swivel	Independent swivels for improved sail shape	Fixed
Drum	Removable split drum for racing	Fixed
Line	Included on Units 0, 1, 2	Included on Units 0, 1, 2



2. Determine Unit Size

Size is based on the headstay and clevis pin diameters listed on unit pages. Choose between unit sizes when diameters are shared by considering stay length and typical boat size recommendations. Contact Harken if you have any questions.

3. Determine if Additional Foils Needed

Use the I and J measurements to determine the length of the headstay. If the existing headstay is longer than the standard length listed under Headstay Length on unit pages, order additional foils and connectors. In some cases one or two extra foils and connectors may be necessary.

4. Determine Toggle and Link Plate

Use short toggle for maximum luff length.

5. Choose Lead Block Kit and Accessories

Harken recommends equipping every furling system with a ratchet lead block kit. Other parts on the Furling Accessories page (185,191) include equipment for halyard management and racing hardware for faster sail changes. Order line for MKIV Ocean furlers.

6. Prepare Sail and Headstay

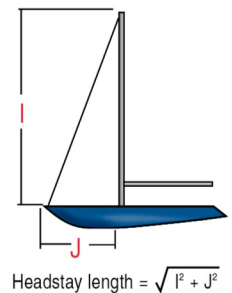
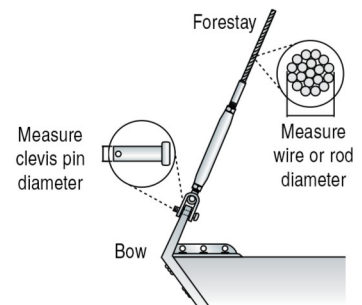
Have a luff tape added to your genoa. Match the sail length to the stay length minus the height of the halyard swivel and lower unit. See sizing information on page 184.

MKIV and MKIV Ocean furlers install over the existing turnbuckle. The turnbuckle is accessible for adjustment by raising the drum. See the MKIV & MKVI Ocean Toggle & Rigging Options on page 173 to determine toggle and rigging requirements. Some headstays will require cutting and shortening to fit Harken toggle. Sometimes only the lower threaded turnbuckle fitting needs changing. Check with a professional rigger on stay condition before reusing stay.

For all units, rod rigging requires a Harken rod adapter stud. It must be cut and coldheaded by an authorized rod service center.

7. Contact

If you have questions, please contact your dealer or Harken Technical Service.



Toggle & Rigging Options

Use these rigger-supplied options to fit Harken toggles and leg kits shown below. Harken toggle and leg kit assemblies sold separately. See unit pages.

Model	Toggle Part No.	Description	Clevis Pin Ø		Fits Unit	Furler Part No.
			in	mm		
MKIV	7311.20 1/2	Jaw/jaw	1/2	12.7	1	7411.10
	7311.21 1/2	Long link plate w/toggle	1/2	12.7		
	7311.21 5/8	Long link plate w/toggle	5/8	15.9		
	7312.20 5/8	Jaw/jaw	5/8	15.9	2	7412.10
	7312.21 5/8	Long link plate w/toggle	5/8	15.9		
	7312.21 3/4	Long link plate w/toggle	3/4	19.1		
	7413.20 3/4	Jaw/jaw w/short link plate	3/4	19.1	3	7413.10
	7413.20 7/8	Jaw/jaw w/short link plate	7/8	22.2		
	7313.21 3/4	Long link plate w/toggle	3/4	19.1		
	7313.21 7/8	Long link plate w/toggle	7/8	22.2		
	7414.20 7/8	Jaw/jaw w/short link plate	7/8	22.2	4	7414.10
7414.20 1	Jaw/jaw w/short link plate	1	25.4			
7414.20 1 1/8	Jaw/jaw w/short link plate	1 1/8	28.6			

MKIV Ocean	7311.20 1/2	Jaw/jaw	1/2	12.7	1	7511.10
	7311.21 1/2	Long link plate w/toggle	1/2	12.7		
	7311.21 5/8	Long link plate w/toggle	5/8	15.9		
	7312.20 5/8	Jaw/jaw	5/8	15.9	2	7512.10
	7312.21 5/8	Long link plate w/toggle	5/8	15.9		
	7312.21 3/4	Long link plate w/toggle	3/4	19.1		
	7413.20 3/4	Jaw/jaw w/short link plate	3/4	19.1	3	7513.10
	7413.20 7/8	Jaw/jaw w/short link plate	7/8	22.2		
	7513.20 1	Jaw/jaw w/short link plate	1	25.4		
	7513.20 1 1/8	Jaw/jaw w/short link plate	1 1/8	28.6		
	7313.21 3/4	Long link plate w/toggle	3/4	19.1	3	7513.10
	7313.21 7/8	Long link plate w/toggle	7/8	22.2		
	7513.21 1	Long link plate w/toggle	1	25.4		
	7513.21 1 1/8	Long link plate w/toggle	1 1/8	28.6		

MKIV / MKIV Ocean	7410.20 5/16	Eye/jaw (reversible)	5/16	7.9	0	7410.10/ 7510.10
	7410.20 3/8	Eye/jaw (reversible)	3/8	9.5		
	7410.20 7/16	Eye/jaw (reversible)	7/16	11.1		
	7411.20 1/2	Eye/jaw (reversible)	1/2	12.7	1	7411.10/ 7511.10
	7412.20 5/8	Eye/jaw (reversible)	5/8	15.9	2	7412.10/ 7512.10
	7311.20 5/8	Stud/jaw*	5/8	15.9	1	7411.10/ 7511.10
	7312.20 3/4	Stud/jaw**	3/4	19.1	2	7412.10/ 7512.10

*Thread Ø: 5/8-18 LH **Thread Ø: 3/4-16 LH

MKIV HYDRAULIC	741X.25 X/X	Hydraulic furling toggles	3/4 - 2 7/16	19.1-61.9	3H - 8H	741X.15
	741X.26 X/X	Furling toggles and cylinders	3/4 - 2 7/16	19.1-61.9		

Rigger
Supplied



Harken

Long link plate
w/toggle



Jaw/jaw toggle
assembly



Eye/jaw
toggle
assembly



Stud/jaw
toggle
assembly



Boats with larger clevis pins
use special Harken lower
stud fitting.

Toggle flips for
alternate chainplate
position.

Hydraulic



Hydraulic





MKIV & 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 introduces MKIV Ocean offering MKIV quality, specifically 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.

For occasional racers, the MKIV line is engineered with ease, durability, and winning in mind. The split drum can be removed easily for use with racing sails, providing the longest possible luff length. The independent swivel supports optimal sail shape.



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.
- Aerodynamic (MKIV) and round (MKIV Ocean), 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.

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



	MKIV	MKIV Ocean
Typical boat size	6.5 - 24.4 m (22' - 80')	6.5 - 18.3 m (22' - 60')
Wire headstay diameter range	4 - 16 mm (5/32" - 5/8")	4 - 12 mm (5/32" - 1/2")
Rod headstay diameter range	-4 to -48 (4.37 - 14.3 mm)	-4 to -30 (4.37 - 14.3 mm)
Sailor	Racer (split drum can be removed)	Non-Racer/Cruising
Shape	Aerodynamic Foil	Round Foil
Swivel	Double at head and tack	Single at head and tack
Sizes	Five models (0 - 4)	Four models (0 - 3)



Improved sail shape and boat control

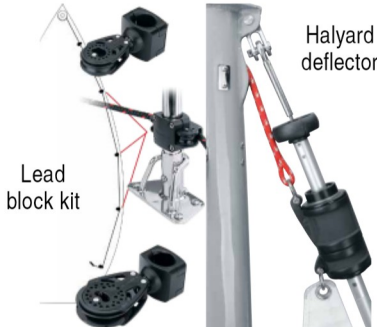
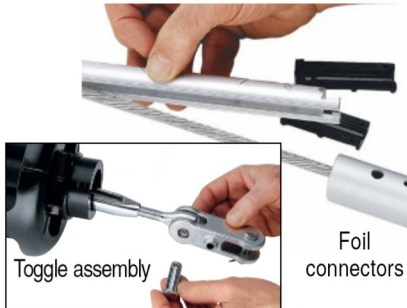
- Independent halyard and tack swivels furl sail center before head and tack for improved sail shape when reefed (MKIV).
- Both MKIV and MKIV Ocean have a light-weight aluminum halyard swivel saving weight aloft to reduce pitching and heeling.

Split drum removes easily for racing (MKIV)

- Line guard and spool remove easily for use with full-hoist sails.

Double and single-groove foils offer smooth sail handling

- Precision-extruded, double-groove (MKIV) and single-groove (MKIV Ocean) foils for smooth sail handling.
- Stainless steel feeder allows fast single-handed hoist and sail changes (MKIV).
- Black-anodized foils (MKIV) and clear-anodized foils (MKIV Ocean).



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.

Accessories

- Lead block kit: Easy-to-mount ball bearing blocks lead line aft; fit 25 mm (1") stanchions.
- Halyard deflector: Install above the foil to prevent halyards from wrapping around the foil when furling.

Easy to maintain

- Bearings require no lubrication or isolating seals.



- Stainless steel link plates raise the drum and fit over existing turnbuckle, resist scratches, and can be easily repolished.

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.

MKIV Ocean Unit 1

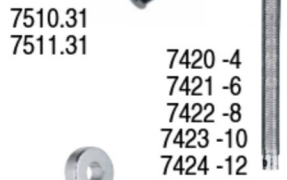
Typical Boat Length 8.3 - 11 m (28' - 36')

Wire Ø (1 x 19 SS)	Rod Ø	Clevis pin Ø
6, 7, 8 mm (1/4", 9/32", 5/16")	-8, -10, -12 (5.72, 6.35, 7.14 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")*	
7424 -12	-12 rod adaptor stud (thread Ø UNF 5/8")*	

*Use with conventional turnbuckle.



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



7510.10
7511.10

7311.21 1/2
7311.21 5/8

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 tumbuckle.

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 (7/16", 1/2", 9/16", 5/8")	-22, -30, -40, -48 (9.53, 11.1, 12.7, 14.3 mm)	19.1, 22.2, 25.4, 28.6 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 tumbuckle.



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MKIV 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	
7410.10	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		
7410.30	Extra 2.13 m (7') luff foil extrusion	
7410.31	Extra 165 mm (6 1/2") 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.

MKIV Unit 1

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

Ø Cable (1 x 19 SS)	Ø Varilla	Ø Pasador
6, 7, 8 mm (1/4", 9/32", 5/16")	-8, -10, -12 (5.72, 6.35, 7.14 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	
7411.10	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		
7411.30	Extra 2.13 m (7') luff foil extrusion	
7411.31	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")*	
7424 -12	-12 rod adaptor stud (thread Ø UNF 5/8")*	

*Use with conventional turnbuckle.



Pilgrim, WallyNano MKII, 11.35 m (37.2), Wally / Hoek Design Naval Architects, Doornik Yachts BV © Nico Martinez



7410.30
7411.30



7410.31
7411.31
7420 -4
7421 -6
7422 -8
7423 -10
7424 -12



7311.20 1/2



7311.20 5/8



7311.21 1/2
7311.21 5/8

MKIV 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 mm (5/16", 3/8")	-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
7412.10	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

7412.30	Extra 2.13 m (7') luff foil extrusion
7412.31	Extra 229 mm (9") 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 Unit 3

Typical Boat Length 13.7 - 18.3 m (45' - 60')

Wire Ø (1 x 19 SS)	Rod Ø	Clevis pin Ø
11, 12 mm (7/16", 1/2")	-22, -30 (9.53, 11.1 mm)	19.1, 22.2 mm (3/4", 7/8")

Headstay Length Standard 22.76 m (74'8"); max 24.89 m (81'8")

Part No.	Description
7413.10	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
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

Optional Parts

7413.30	Extra 2.13 m (7') luff foil extrusion
7413.31	Extra 248 mm (9 3/4") 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")**

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

MKIV Unit 4

Typical Boat Length 19.8 - 24.4 m (65' - 80')

Wire Ø (1 x 19 SS)	Rod Ø	Clevis pin Ø
12, 14, 16 mm (1/2", 9/16", 5/8")	-30, -40, -48 (11.1, 12.7, 14.3 mm)	22.2, 25.4, 28.6 mm (7/8", 1", 1 1/8")

Headstay Length Standard 22.88 m (75'1"); max 27.15 m (89'1")

Part No.	Description
7414.10	Furling system*

Toggle Assembly Required - sold separately

7414.20 7/8	Jaw/jaw with short link plate with 22.2 mm (7/8") clevis pin
7414.20 1	Jaw/jaw with short link plate with 25.4 mm (1") clevis pin
7414.20 1 1/8	Jaw/jaw with short link plate with 28.57 mm (1 1/8") clevis pin

Optional Parts

7414.30	Extra 2.13 m (7') luff foil extrusion
7414.31	Extra 270 mm (10 3/4") connector with bushings
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.

7412.30
7413.30
7414.30



7412.31
7413.31
7414.31

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



7412.20 5/8



7312.20 5/8



7312.20 3/4

7413.20 3/4
7413.20 7/8
7414.20 7/8
7414.20 1
7414.20 1 1/8



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



MKIV UNDERDECK JIB REEFING & FURLING

Harken's MKIV Underdeck Jib Reefing & Furling line is the perfect solution for sailors who want an aerodynamic system with a minimal amount of equipment above deck. The under-deck furler provides a low-friction, clean layout solution that minimizes windage, while uncluttering the bow for easy anchor access. Offered in four sizes for boats from 6.7 – 18.3 m (22' – 60').



Unit 1
Unit 2
Unit 3

Unit 0

Low-friction efficiency for easy furling and reefing

- Ball bearings between center hub and deck bearing, and main shaft reduce friction; drum and halyard swivel turn freely under load.
- Foils rotate around headstay so headstay load is isolated from the unit for easy furling.

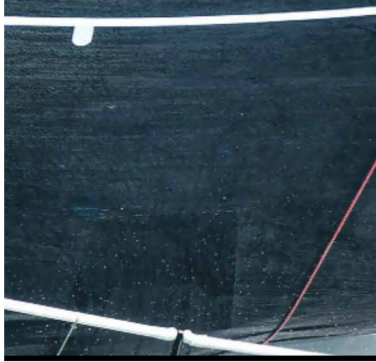
Stand up to sun, salt, and time

- Units 1, 2, 3: Aluminum line guard, torque tube, and swivels hardcoat-anodized, UV-stabilized for durability. Line guard is polyurethane-coated for additional corrosion protection. Threaded height adjuster uses dissimilar metals (stainless steel and bronze) to prevent galling.
- Unit 0: One-piece integrated aluminum deck bearing and line guard hardcoat-anodized for durability and corrosion resistance.
- Aerodynamic, clear-anodized aluminum Air foils handle extreme reefing loads.
- Triple-interlock foil joints withstand years of torque loading: foil connector's geometric shape interlocks with foil; secures with syringe-injected adhesive; screws provide final lock.

Foil joints



DO NOT use Harken equipment for human suspension unless product is specifically certified and labeled for such use.
180 STA-LOK is a registered trademark of STA-LOK Terminals.

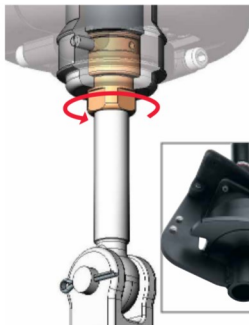


Improved sail shape and boat control

- Independent halyard and tack swivels furl sail center before head and tack for improved sail shape when reefed.
- Lightweight aluminum halyard swivel saves weight aloft to reduce pitching and heeling.
- Tack sits at deck level, lowering the tack height for maximized sail area.
- The torque tube houses a full-length turnbuckle for optimal mast rake and tension adjustment.
- Units 1, 2, 3: High-strength universal joints articulate, allowing ample headstay sag when sailing downwind.
- Unit 0: Articulating ball joint eliminates universal joint to reduce weight, simplify maintenance.

Fast hoists, douses, reefs, and sail changes

- Precision-extruded, double-groove Air foils for smooth sail handling and fast sail changes.
- Stainless steel feeder allows fast singlehanded hoist and sail changes.



Unit 1 and larger

Unit 0



Unit 1 and larger

Unit 0



Designed for easy installation

- Units 1, 2, 3: Self-locking threaded height adjuster for correct fit between chainplate and deck.
- Unit 0: Does not require height adjuster; furler and headstay independent of each other allowing flexible installation options.
- Torque tube fits over existing turnbuckle allowing easy length adjustment. Hub assembly toggle accepts standard turnbuckle using swage, rod, Norseman, or STA-LOK® terminals.

Belowdeck drum fits narrow bows

- Small outside drum diameter.



- C-shaped open connectors with low-friction plastic isolators easily slip onto headstay wire and into foil.

Easy to maintain

- Bearings require no lubrication or isolating seals.
- Through-deck bearing into underdeck compartment provides a low profile, nearly watertight system.

MKIV Underdeck Unit 0

Typical Boat Length 6.7 - 9.1 m (22' - 30')

Wire Ø (1 x 19 SS)	Rod Ø	Clevis pin Ø
5, 6 mm (3/16", 7/32")	-4, -6 (4.37, 5.03 mm)	—

Headstay Length Standard 11.7 m (38'4"); max 13.8 m (45'4")

Part No.	Description
7410.11	Furling system

Optional Parts

7410.30	Extra 2.13 m (7') luff foil extrusion
7410.31	Extra 165 mm (6 1/2") connector with bushings

MKIV Underdeck Unit 1

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

Wire Ø (1 x 19 SS)	Rod Ø	Clevis pin Ø
6, 7, 8 mm (1/4", 9/32", 5/16")	-8, -10 (5.72, 6.35 mm)	12.7 mm (1/2")

Headstay Length Standard 13.99 m (45'11"); max 16.12 m (52'11")

Part No.	Description
7411.11 1/2	Furling system with 12.7 mm (1/2") clevis pin

Optional Parts

7411.30	Extra 2.13 m (7') luff foil extrusion
7411.31	Extra 178 mm (7") connector with bushings



Dimensions

Unit	Part No.	A		B		C					
		Min	Max	Min	Max	Min	Max	in	mm		
0	7410.11	6 7/8	175	5	30.4						
1	7411.11 1/2	10 5/8	270	15 5/8	397	5 1/2	140	4 5/8	117	9 5/8	244



All MKIV Underdeck furlers feature a ball bearing halyard swivel.

7410.30
7411.30



7410.31
7411.31



7410.11

7411.11 1/2



J/122 © J/Boats

MKIV Underdeck 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 mm (5/16", 3/8")	-12, -17 (7.14, 8.38 mm)	15.9 mm (5/8")

Headstay Length Standard 18.38 m (60'4"); max 20.51 m (67'4")

Part No.	Description
7412.11 5/8	Furling system with 15.9 mm (5/8") clevis pin

Optional Parts

7412.30	Extra 2.13 m (7') luff foil extrusion
7412.31	Extra 229 mm (9") connector with bushings

MKIV Underdeck Unit 3

Typical Boat Length 13.7 - 18.3 m (45' - 60')

Ø Cable (1 x 19 SS)	Ø Varilla	Ø Pasador
11, 12 mm (7/16", 1/2")	-22, -30 (9.53, 11.1 mm)	19.1, 22.2 mm (3/4", 7/8")

Headstay Length Standard 22.88 m (75'1"); max 25.02 m (82'1")

Part No.	Description
7413.11 3/4	Furling system with 19.1 mm (3/4") clevis pin
7413.11 7/8	Furling system with 22.2 mm (7/8") clevis pin

Optional Parts

7413.30	Extra 2.13 m (7') luff foil extrusion
7413.31	Extra 248 mm (9 3/4") connector with bushings

Dimensions

Unit	Part No.	A		B		C					
		Min	Max	Min	Max	Min	Max				
2	7412.11 5/8	12 11/16	322	18 9/16	471	6 5/8	167	5 3/8	137	11 5/16	287
3	7413.11 3/4	16 1/8	410	23 5/8	600	8 3/16	208	6 7/8	175	14 3/8	365
3	7413.11 7/8	16 9/16	421	24 1/4	616	8 3/16	208	7 5/16	186	15	381

Francis Lee, 18.9 m (62'), Perry Silver, Robert H. Perry design, Northwest School of Boatbuilding © Boomer Depp



7412.30
7413.30



7412.31
7413.31



7412.11 5/8
7413.11 3/4
7413.11 7/8



Jib Reefing and Furling Dimensions

MKIV & MKIV Ocean Using Toggle*

System	Unit	Part No.	A		B		C		D		E	
			in	mm	in	mm	in	mm	in	mm	in	mm
MKIV	0	7410.10	3 3/4	96	5 7/8	150	1 7/8	47	5 1/2	140	2 5/8	66
	1	7411.10	4 3/4	120	7	178	2	51	6 5/8	167	3 1/16	78
	2	7412.10	5 5/8	143	9 1/8	231	2 9/16	66	8 3/16	208	3 13/16	97
	3	7413.10	7 5/16	186	11 5/8	296	3 3/8	86	9 3/4	247	4 3/4	121
	4	7414.10	8 15/16	227	**	**	**	**	11 1/16	280	5 1/8	130
MKIV Ocean	0	7510.10	3 3/4	96	5 7/8	150	1 7/8	47	5 1/2	140	2 5/8	66
	1	7511.10	4 3/4	120	7	178	2	51	6 5/8	167	3 1/16	78
	2	7512.10	5 5/8	143	9 1/8	231	2 9/16	66	8 3/16	208	3 13/16	97
	3	7513.10	7 5/16	186	11 5/8	296	3 3/8	86	9 3/4	247	4 3/4	121

System	Unit	Part No.	F		G		H		I									
			Max‡ in	Min mm	Max‡ in	Min mm	Max‡ in	Min mm	Max‡ in	Min mm								
MKIV	0	7410.10	41	1041	39 1/4	997	8 3/8	213	8	203	7 5/16	186	7	175	2 5/16	59	2	51
	1	7411.10	46 1/4	1175	42 1/4	1073	12	305	9 3/4	247	11	280	8 3/4	222	5	129	2 7/8	71
	2	7412.10	51 3/4	1314	46 3/4	1187	15 1/8	384	12 1/16	306	13 15/16	348	10 7/8	276	6 7/16	164	3 3/8	85
	3	7413.10	50 5/8	1286			18 7/16	467			16 5/8	420			7 3/8	188		
	4	7414.10	55 5/16	1405			**	**	**	**	20	509			8 5/8	220		
MKIV Ocean	0	7510.10	41	1041	39 1/4	997	8 3/8	213	8	203	7 5/16	186	7	175	2 5/16	59	2	51
	1	7511.10	46 1/4	1175	42 1/4	1073	12	305	9 3/4	247	11	280	8 3/4	222	5	129	2 7/8	71
	2	7512.10	51 3/4	1314	46 3/4	1187	15 1/8	384	12 1/16	306	13 15/16	348	10 7/8	276	6 7/16	164	3 3/8	85
	3	7513.10	50 5/8	1286			18 7/16	467			16 5/8	420			7 3/8	188		

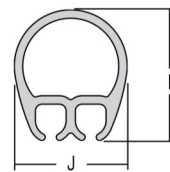
*See MKIV long link plate dimensions below. ** Soft-attachment tack, head, and halyard; distance varies.

‡Max refers to using stud jaw toggle. Use Min when adding long link plate dimensions.



MKIV Long Link Plate

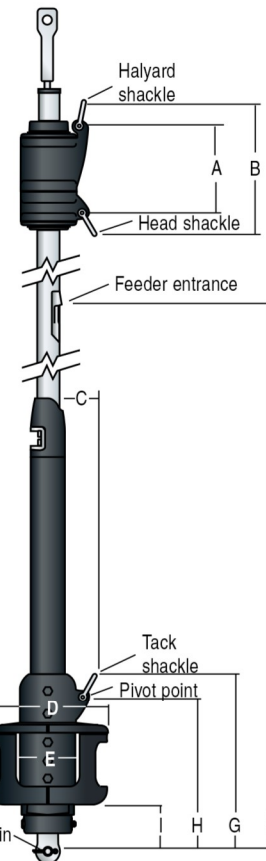
*Note: If a long link plate is used, add the following dimensions to F, G, H, and I (based on whether plate is used full-length or shortened to one of five hole positions).		
Unit 1	12.7 mm (1/2") clevis pin	Add 337-168 mm (13 1/4"-6 5/8")
	15.9 mm (5/8") clevis pin	Add 286-111 mm (11 1/4"-4 3/8")
Unit 2	15.9 mm (5/8") clevis pin	Add 410-210 mm (16 1/8"-8 1/4")
	19.1 mm (3/4") clevis pin	Add 344-144 mm (13 9/16"-5 11/16")
Unit 3	19.1 mm (3/4") clevis pin	Add 497-271 mm (19 9/16"-10 11/16")
	22.2 mm (7/8") clevis pin	Add 505-279 mm (19 7/8"-11")



MKIV



MKIV Ocean



MKIV & MKIV Ocean

Foil Dimensions

System	Unit	Part No.	J		K		Foil length		Luff tape*	
			in	mm	in	mm	ft/in	m	in	mm
MKIV	0	7410.30	7/8	23	1 1/32	26	7'	2.13	#6 (6/32)	5
	1	7411.30	1	25	1 1/8	29	7'	2.13	#6 (6/32)	5
	2	7412.30	1 1/4	32	1 3/8	36	7'	2.13	#6 (6/32)	5
	3	7413.30	1 1/2	38	1 11/16	43	7'	2.13	#6 (6/32)	5
	4	7414.30	1 3/4	44	1 27/32	47	7'	2.13	#6 (6/32)	5
MKIV Ocean	0	7510.30	1 1/8	28			7'	2.13	#6 (6/32)	5
	1	7511.30	1 3/8	35			7'	2.13	#6 (6/32)	5
	2	7512.30	1 3/4	44			7'	2.13	#6 (6/32)	5
	3	7513.30	2	50			7'	2.13	#6 (6/32)	5

*Nominal dimensions only, actual luff tape dimensions are larger.



Cuba Libre, Twister 36, 11.2 m (36.75'), Weigel Anita Weigel, naval architect: Robert Roginski © Katarzyna Roginska

Furling Lead Blocks

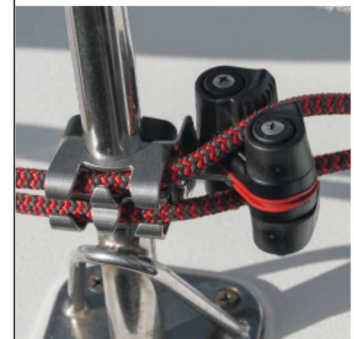
Harken recommends equipping jib reefing and asymmetric/code zero furling systems with lead blocks for safe furling from the cockpit. Lightweight, UV-stabilized Carbo blocks run exclusively on ball bearings for fast trimming under any load. Furling leads are offered separately or in complete kits.

MKIV and MKIV Ocean Jib Reefing and Furling Leads

A 57 mm Carbo ratchet maintains tension on the line so the unit furls smoothly and easily. The outboard assembly allows the line to travel outside of the stanchions, keeping the sidedecks clear. Inboard block assemblies are available for the bow pulpit, to handle two lines, for continuous line furlers, or for cutter-rigged boats with two furlers. Ball and socket bases align blocks for smooth leads aft.

Reflex Asymmetric and Code Zero Furling Leads

Two stanchion leads forward guide line outboard to keep sidedecks clear. A stanchion lead aft features a double Harken Cam-Matic for cleating continuous furling line. A Carbo T2 block with shockcord attaches aft of the double cam to keep line in place for easy access.



Outboard leads allow furling line to travel outboard of the stanchion to keep the sidedeck clear.



MKIV & MKIV OCEAN JIB REEFING & FURLING LEADS



REFLEX ASYMMETRIC & CODE ZERO FURLING LEADS

Part No.	Description	Sheave Ø		Weight		Max line Ø		Maximum working load		Use with
		in	mm	oz	g	in	mm	lb	kg	
MKIV & MKIV Ocean										
7401	40 mm Carbo lead block assembly	1 9/16	40	3.7	106	3/8	10	485	220	25 mm (1") stanchions
7402	57 mm Carbo ratchet lead block assembly	2 1/4	57	5.4	152	3/8	10	500	227	25 mm (1") stanchions
7403	29 mm outboard lead block assembly	1 1/8	29	3	85	3/8	10			25 mm (1") stanchions
7404	Lead block kit*			19.2	544	3/8	10			25 mm (1") stanchions
7405	40 mm Carbo stanchion mount double lead	1 9/16	40	5.6	159	3/8	10	485	220	25 mm (1") stanchions
7407	57 mm Carbo lead block	2 1/4	57	5.2	149	3/8	10	500	227	25 mm (1") stanchions
Reflex										
7355	Outboard fairlead			4.35	123	3/8	10			25 mm (1") stanchions
7356	Lead block kit**			26.54	751	3/8	10			25 mm (1") stanchions
7359	Outboard fairlead/double cam cleat			9.79	276	3/8	10			25 mm (1") stanchions
7360	57 mm T2 lead block/bungee	2 1/4	57	3.7	106	3/8	10	500	227	

*Kit includes 3 x 7403 / 1 x 7401 / 1 x 7402 / 1 cleat. **Kit includes 2 x 7355 / 1 x 7359 / 1 x 7360.

Furling Accessories

Harken offers halyard restrainers and halyard deflectors. The halyard restrainer installs on the mast near the top of the foil to keep the line against the mast, preventing halyard wrap when furling. The halyard deflector installs on the stay above the foil system, preventing the jib halyard (and additional halyards) from wrapping around the foil.

Also available are stanchion-mount bases for Carbo and Classic blocks, as well prefeeders and snap shackles to facilitate fast sail changes.



Antares 44i; 13.41 m (44'), Antares Yachts, naval architect: Ted Clements © Salwa Farah / Antares Yachts



947



7006



891



884

885



448



7301, 7302
7303, 7304

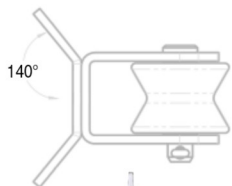
7430



7431



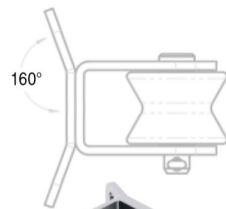
061



140°



944
945



160°



1113



7408

Part No.	Description	Sheave Ø		Weight		Max line Ø		Maximum working load		Use with
		in	mm	oz	g	in	mm	lb	kg	
061	Stanchion mount base			2	57			350	159	22, 25 mm (7/8", 1") stanchions
448	Halyard lead block	1 1/2	38	2.1	60	3/8	10	300	136	0/1/2
884	Snap shackle			2.3	65			1500	680	MKIV 0/1
885	Snap shackle			5	141			2300	1040	MKIV 2
891	Small Boat furling snap shackle			2.3	65			950	431	163, 165, 1134, 434, 435, 483
944	Halyard restrainer — 140° angle**	15/16	25	3	85					0/1
945	Halyard restrainer — 140° angle**	1 1/4	31	6	170					2/3/3.25
1113	Halyard restrainer — 160° angle**	1 1/4	31	6	170					2/3/3.25
7301	Halyard deflector			1.6	45					MKIV and MKIV Ocean Unit 0
7302	Halyard deflector			2.4	68					MKIV and MKIV Ocean Unit 1
7303	Halyard deflector			4.8	136					MKIV and MKIV Ocean Unit 2
7304	Halyard deflector			8	227					MKIV and MKIV Ocean Unit 3
947	Prefeeder			1	28					All
7006	Carbo racing foil prefeeder			3	85					All
7408	Stanchion mount base			2	57			350	159	28.5 mm (1 1/8") stanchions
7430	Powered furling crank handle			7	198					Electric/hydraulic furling
7431	Powered furling drill adapter			2.5	71					Electric/hydraulic furling

*Stanchion mount base fits Classic Bullet, Big Bullet, 2.25", 57 mm Carbo single blocks, and ratchet blocks with swivel post. **#10 RH (5 mm) fasteners.