

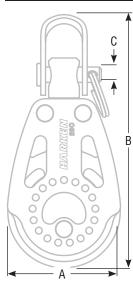
## **29 mm Carbo AirBlock**<sup>°</sup> All blocks except 351 Ti-Lite

USA – Tel: (+1) 262-691-3320 • Web: www.harken.com • Email: harken@harken.com Italy – Tel: (+39) 031.3523511 • Web: www.harken.it • Email: techservice@harken.it



Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury or death. See <a href="https://www.harken.com/manuals">www.harken.com/manuals</a> for additional safety information.

### IMPORTANT: See Inspection and Maintenance at end of manual.



Features

Glass-filled nylon sideplates: load-carrying curved bearing races.

Single fixed: Integral becket allows 2:1 or 3:1 purchase.

**Doubles/triples:** U-Locks holds the swivel in front/side position, or lets block spin freely.

Triple w/cam: Compact cam arm supports high-load purchases of 5:1 or 6:1.

Cheek: Line-shedding, small mounting footprint and drain holes.

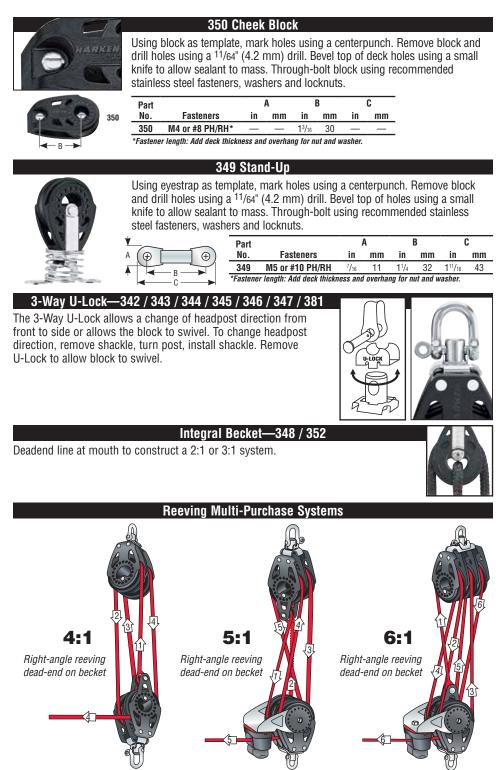
**Common uses:** Outhauls, Cunninghams, Vangs, Traveler controls, Barberhaulers, Flag halyards

Max Line Size: Blocks w/o Cams 5/16" (8 mm); Blocks w/Cams 1/4" (6 mm)

### Do not apply a load greater than the Maximum working load (MWL) of the Carbo AirBlock listed below.

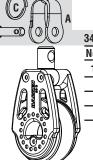
Part			A		В		C		Maximum working load		Breaking load	
No.	Description	in	mm	in	mm	in	mm	lb	kg	lb	kg	Part No.
340	Single/swivel	<b>1</b> <sup>1</sup> /8	29	2 <sup>5</sup> /8	66	5/32	4	330	150	1000	454	246
341	Single/swivel/becket	<b>1</b> <sup>1</sup> /8	29	<b>3</b> <sup>1</sup> / <sub>16</sub>	78	<sup>5</sup> / <sub>32</sub>	4	330	150	1000	454	246
342	Double/swivel	<b>1</b> 1/8	29	27/8	73	<sup>3</sup> / <sub>16</sub>	5	660	299	1625	737	072
343	Double/swivel/becket	<b>1</b> 1/8	29	33/8	85	<sup>3</sup> / <sub>16</sub>	5	660	299	1625	737	072
344	Triple/swivel	<b>1</b> 1/8	29	27/8	73	<sup>3</sup> / <sub>16</sub>	5	990	449	2000	907	072
345	Triple/swivel/becket	<b>1</b> 1/8	29	33/8	85	<sup>3</sup> / <sub>16</sub>	5	990	449	2000	907	072
346	Triple/423 Carbo-Cam <sup>®**</sup>	<b>1</b> <sup>1</sup> /8	29	27/8	73	<sup>3</sup> / <sub>16</sub>	5	750	340	1500	680	072
347	Triple/423 Carbo-Cam <sup>®</sup> /becket**	<b>1</b> <sup>1</sup> /8	29	33/8	85	<sup>3</sup> / <sub>16</sub>	5	900	408	1800	816	072
348	Single/fixed*	<b>1</b> <sup>1</sup> /8	29	<b>1</b> <sup>15</sup> / <sub>16</sub>	49	_	_	330	150	1000	454	_
349	Stand-up/fixed*	<b>1</b> <sup>1</sup> /8	29	<b>2</b> <sup>3</sup> / <sub>16</sub>	56	_	_	330	150	1000	454	_
350	Cheek	<b>1</b> <sup>1</sup> /8	29	21/8	53	_	_	330	150	1000	454	_
351	Ti-Lite*	Important: Consult instruction sheet at: http://www.harken.com/pdf/49				n/pdf/492	27.pdf					
352	90° Fixed head*	<b>1</b> 1/8	29	<b>2</b> <sup>1</sup> / <sub>16</sub>	52	_	_	330	150	1000	454	_
353	Traveler	<b>1</b> 1/8	29	35/8	92	_	_	330	150	1000	454	_
371	Clew block assembly	<b>1</b> 1/8	29	47/8	124	_	_	330	150	1000	454	_
381	Double/fixed	<b>1</b> <sup>1</sup> /8	29	2 <sup>1</sup> /8	54	_	_	660	299	1625	737	_

\*Can be used as becket block \*\*Maximum working loads and breaking loads for blocks based on cam strengths



For larger, printable diagrams, please see: www.harken.com.

# Parts — 29 mm Carbo



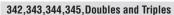
c

Ø

A

В

340, 341 Single					
No.	Description	Qty	Part No.		
1 Shackle Assembly Micro <sup>5</sup> /32"			246		
ŀ	A Shackle Strap	1	HSB104		
E	3 Shackle Clevis Pin <sup>5</sup> /32 X .488	1	HSB105		
(	C Split Ring	1	HSB24		



042,040,044,040,D000100 and mproo					
No.		Description	Qty	Part No.	
1	Shad	ckle Assembly <sup>3</sup> /16"	1	072	
	Α	Shackle Strap <sup>3</sup> /16"	1	HSB18	
	В	Shackle Clevis Pin <sup>3</sup> /16"	1	HSB21	
	С	Split Ring	1	HSB24	
2	U-Lo	ock-29mm Carbo Dbl/Trpl	1	H-27808A	

C

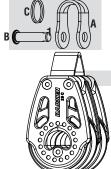
2

# 346/347 Trinle

33

346/	347 Iripie		
No	Description	Qty	Part No.
1	Panhead Screws M4X.7X25mm	2	HFS134
2	Cam Cleat-Micro Carbo II	1	471
3	Nut M4	2	HFS890
4	U-Lock	1	H-27808A
5	Shackle Assembly <sup>3</sup> /16"	1	072
	A Shackle Strap <sup>3</sup> /16"	1	HSB18
	B Shackle Clevis Pin <sup>3</sup> /16"	1	HSB21
	C Split Ring	1	HSB24

349	Standup Fixed		
No.	Description	Qty	Part No.
1	Single/fixed	1	348
2	Spring	1	097
3	Eyestrap	1	073



B

381 Double						
No.		Description	Qty	Part No.		
1	Shad	kle Assembly <sup>3</sup> /16"	1	072		
	Α	Shackle Strap <sup>3</sup> /16"	1	HSB18		
	В	Shackle Clevis Pin <sup>3</sup> /16"	1	HSB21		
	С	Split Ring-SB (MS-002)	1	HSB24		



3

## Inspect Block and Shackle Before You Sail



WARNING!: Failure to inspect and replace damaged metal parts and/or worn or frayed line can cause block or system to break suddenly causing an accident, damage to your vessel, personal injury or death. See <a href="http://www.harken.com/manuals">www.harken.com/manuals</a> for additional safety information.

Frequently inspect shackles and shackle posts for signs of corrosion, cracks, or elongation. When replacing shackles, use the correct Harken parts to maintain the proper strength. Replace line as necessary, taking into consideration the maximum size recommendation.

### Maintenance

Harken<sup>®</sup> equipment is designed for minimal maintenance. However, some upkeep is required to give the best service and comply with the Harken<sup>®</sup> limited warranty.

Keep your equipment clean and free-running by frequently flushing with fresh water. Periodically clean with mild detergent and water solution. Spin sheaves to distribute soap solution evenly. Flush with fresh water.

Important! Exposure to some teak cleaners and other caustic solutions can result in discoloration of part and is not covered under the Harken warranty.

#### Warranty

For additional safety, maintenance and warranty information see <u>www.harken.com/manuals</u> or the Harken<sup>®</sup> catalog.