

# HARKEN® MAINSHEET SYSTEMS

## HARKEN

### HARKEN MAINSHEET BLOCKS

#### LOW-PROFILE MAINSHEET BLOCKS

Developed by Harken®, these blocks optimize the limited space between the boom and main traveler. Almost all beach cats now use one of these low-profile systems. All systems include: 1) Ratchet systems that allow the crew to hold high line tension loads when line is not cleated; 2) Removable becketts to allow for attachment of spliced lines; 3) Adjustable cam arms to suit your sheeting angles; 4) Aluminum Cam-Matic® cleats; 5) Swivel shackles at top and bottom to permit blocks to turn toward crew and mainsheet tension.

#### CARBO SYSTEMS

57mm Carbo Blocks have an enormous working range and a very high strength-to-weight ratio. The Carbo Ratchamatic® is a load-sensing ratchet block that rolls freely in both directions under low loads and automatically engages the ratchet as loads increase. Changing gears between ratchet and light air modes is crisp and seamless. Unloaded mainsheets run like greased lightning during mark roundings. A simple twist of an Allen wrench adjusts the ratchet engagement to a higher or lower load to suit your strength or sailing style.

#### CRITERIA FOR SELECTING MAINSHEET BLOCKS

**Line size:** 2.25" and 57mm blocks use up to 3/8" line; 3.00" blocks use up to 7/16" line. Bigger is better for holding; smaller is better for reduced friction. For the best of both worlds, consider Robline Racing Sheet and/or a tapered sheet.

**Minimum Stacking Height (Block-to-Block Measurement):** 2.25" Classic and 57mm Carbo systems require about 9.0", while 3.00" Classic blocks require 11.0". Less length is better when space is limited, as on the Hobie® 16.

**Weight:** Less weight is better! The Carbo system at 25 oz. is 11% lighter than the 2.25" Classic System and 60% lighter than the 3.00" Classic system.

**Strength (SWL = Safe Working Load):** Stronger is better! The weakest link of the 57mm Carbo System has SWL of 1800lbs vs 500lbs for 2.50" and 3.00" Classic Systems.

**Ratchet Engagement:** Classic blocks have Hexaratchet® with manual on/off activation, while Carbo blocks (except 10:1) have Ratchamatic®, which has an adjustable load-sensing activation mechanism. Automatic is almost always better, allowing load-released lines to play-out faster!

**Cost:** 57mm Carbo System is about 30% more than the 2.50" Classic system. Is it worth 30%? You have to try it!



28-0004

28-0194



28-2604

28-2629



28-2605

28-2620-7

#### 5:1 CLASSIC LOW-PROFILE MAINSHEET SYSTEM 5:1 WITH 2.25" BLOCKS

28-0004 Double with Becket \$95.35  
28-0194 2.25" Base Block \$217.75

#### CLASSIC MAINSHEET BLOCK REPLACEMENT PARTS

28-HSB41 Side Plates (pair) \$14.00  
28-HFS1 Screw for Side Plate (each) \$8.00  
28-0072 3/16" Shackle (2.25" Blocks) \$3.55  
28-0138 1/4" Shackle (3.00" Blocks) \$5.70  
28-0137 Fairlead Strap \$2.40  
19-2918 Screw #10-32x2" \$5.55  
19-2515 Nut #10-32 (Nylock/Thick) \$4.00

#### BLOCK HANGER

Use to hang a block from your boom.  
21-0180 \$7.10



#### 6:1 CARBO LOW-PROFILE MAINSHEET SYSTEM

##### 57MM BLOCKS WITH RATCHAMATIC BASE

These Carbo AirBlocks® have enormous working range, with a higher working load than standard blocks, even though they are lighter in weight! If you prefer the classic 2.25" low-profile base block, order #28-0194 shown at left.

28-2604 Triple with Swivel \$118.00  
28-2629 Carbo Ratchamatic 57mm Base Block 6:1 \$249.00

#### 40MM CARBO BLOCK 90° FIXED

Hang on the becket of any of the Harken® 6:1 base blocks to upgrade to a 7:1 system. Single/fixed block is 2-1/2" long and can accommodate 3/8" maximum line diameter. Each.  
28-2659 \$29.50



#### 7:1 CARBO LOW-PROFILE MAINSHEET SYSTEM

##### 57MM BLOCKS WITH RATCHAMATIC BASE

These Carbo AirBlocks® have enormous working range, with a higher working load than standard blocks, even though they are lighter in weight!

28-2605 57mm Carbo Triple with Swivel & Becket \$121.80  
28-2620-7 Carbo Ratchamatic 57mm Base Block 7:1 \$289.00

#### TIP LINE SIZE TIPS

A larger line size is easier to hold in heavy winds. A smaller line size runs through blocks more easily and is better for light wind sailing.

Harken recommends a maximum of 3/8" line for 2.25" and 57mm blocks and a maximum of 7/16" line for 3" blocks. Call or write for lacing suggestions.

#### FACTORY STOCK MAINSHEET LENGTHS & ROPE DIAMETERS

Lengths shown are mainsheet/main traveler combinations unless noted. As a general guideline, add 4 feet of line for each ratio increase.

See "Line Size Tips" for recommendations regarding line diameter choices.

Ratio	Generic	H-14	H-16	H-17	H-17 Sport	H-18	H-20	H-21	H-21 Sport Cruiser	Nacra & Prindle All Models
4:1	36'	36' of 3/8"								
5:1	40'	42' of 3/8"	42' of 3/8**							
6:1	44'		46' of 3/8**	46' of 3/8"	46' of 3/8"					40' of 7/16" Mainsheet & 10' of 5/16" Main Traveler Control
7:1	48'					48' of 3/8" or 7/16"	41' of 3/8"		66' of 7/8" or 7/16"	40' of 7/16" Mainsheet & 10' of 5/16" Main Traveler Control
8:1	52'								68' of 7/16"	
9:1	56'									

\* Line diameter depends on block size; see line size tips for recommendations.

# MAINSHEET BLOCKS & ACCESSORIES

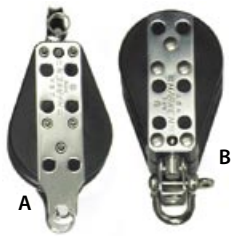


## 8:1 CARBO LOW-PROFILE MAINSHEET SYSTEM

### 57MM BLOCKS WITH RATCHAMATIC BASE

These Carbo AirBlocks® have enormous working range, with a higher working load than standard blocks, even though they are lighter in weight!

- 28-2631 57mm Carbo Quad with Swivel \$146.80
- 28-2632 Carbo Ratchamatic 57mm Base Block 8:1 \$297.75



## A-B. HARKEN 2.25" BLOCKS

Harken double, triple and quad blocks include heavy duty shackle for boom connection, and head post receptor to fit Hexa-Cat base.

- 28-0001 Single \$40.80
- A. 28-0002 Single with Becket \$51.30
- B. 28-0003\* Double \$84.60
- 28-0004\* Double with Becket \$95.35

\*Turn into a swiveling block with the addition of a #28-HSB63 swivel.

## SWIVEL FOR HARKEN BLOCKS

Replace shackle on top of any non-swiveling Harken block with this swivel so the boom block can stay aligned with the base block. Often requested by Nacra 6.0 sailors.

- 28-HSB63 \$25.00



## 10:1 CARBO LOW-PROFILE MAINSHEET SYSTEM

### 57MM BLOCKS WITH RATCHET BASE

Light weight, low profile and very strong, these Carbo AirBlocks® have enormous working range, with a higher working load than standard blocks, even though they are lighter in weight. The base block has an on-off ratchet and will roll freely in both directions when disengaged, such as in light air. Engage the ratchet in heavy air when you need the mechanical advantage of the ratchet. The 57mm ratchet sheave offers 10:1 holding power, making it easier to handhold in heavy air. Safe working load is 1800 pounds; breaking strength is 4500 pounds.

- 56-9955 57mm Carbo 5-Sheave with Swivel \$189.00
- 56-9953 Carbo Ratchamatic 57mm Base Block 10:1 \$329.00

**TIP** For optimal performance, lube locks periodically with McLube Marine Dry Lubricant, #40-0401. See page 17 for more information.



## RELATED ITEMS

Ball Bearing Conditioner.....	pg 17
Blocks.....	26
Cam-Matic Cleats.....	29
Oxen Blocks.....	24
Rope.....	15

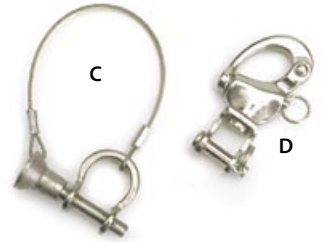


## 12:1 CARBO LOW-PROFILE MAINSHEET SYSTEM

### 57MM BLOCKS WITH RATCHET BASE

Get maximum purchase power with Harken's 57 mm triple fiddles with reinforced cam arms.

- 56-9966 57mm Carbo 6-Sheave with Swivel \$192.00
- 56-9964 Carbo Ratchamatic 57mm Base Block 12:1 \$391.40



## C-D. QUICK RELEASE OPTIONS FOR BOOM BLOCKS

- 01-3233 3/16" Quick Release Shackle for 2.25" Blocks \$29.00
- C. 01-3232 1/4" Quick Release Shackle for 3" Blocks \$31.00
- D. 22-4501 1/4" Snap Shackle with Tack Shackle \$39.00

## C-D. QUICK RELEASE OPTIONS FOR HARKEN BASE BLOCKS

- C. 01-3232 1/4" Quick Release Shackle for H-18, Nacra, Prindle \$31.00
- D. 22-4501 1/4" Snap Shackle with Tack Shackle for H-18, Nacra, Prindle (tack shackle does swivel) \$39.00
- 18-3M075L Quick Release Pin with Lanyard for H-14/16/17 \$26.00



Shown assembled

## E-F. HARKEN SWIVEL WITH TURNING BLOCK

A mainsheet swivel block for Laser (does not fit Laser 2), Sunfish, Capri and other dinghies. Hexaratchet handles up to 3/8" line.

- E. 28-0019 Single Little Hexaratchet-3/8" line \$67.30
- F. 28-0205 Little Swivel Base with Cam-Matic (no ratchet)-1/8"-1/2" line \$112.55



Hobie Tiger Worlds 2005, Santa Barbara, CA

