

### High-Load Snatch Blocks

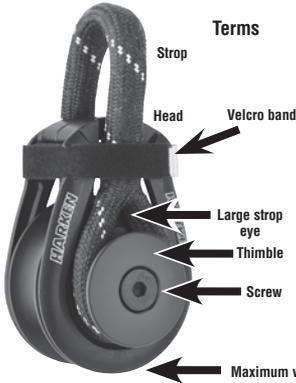
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**WARNING!** Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury, or death. See [www.harken.com/manuals](http://www.harken.com/manuals) for additional safety information.

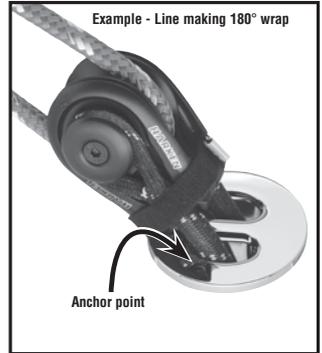
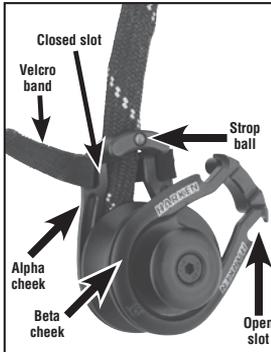
 = Incorrect. Avoid to prevent accidents.

High-load snatch blocks have sideplates that pivot open to make them easy to load onto sheets. They are perfect for temporary leads, line deflection, and static line functions requiring small adjustments. A fixed loop soft attach carries the block's primary load and articulates for a fair lead. The captured Velcro® strap holds the block securely closed when sideplates are aligned. The strap has a broad reflective tab for easier operation with gloves.

Harken composite bearing technology (ULC) ensures sheaves turn smoothly and maintain efficiency under extreme loading. Snap-fit Torlon® bearings carry sideloads. An integral headspacer prevents Hard Lube-anodized aluminum sideplates from deflecting and binding. The wide sheave allows a range of line diameters.



#### Terms



### Specifications

| Part No. | Description          | Sheave diameter |     | Max line Ø |        | Maximum working load |       | Breaking load |       |
|----------|----------------------|-----------------|-----|------------|--------|----------------------|-------|---------------|-------|
|          |                      | mm              | in  | mm         | in     | kg                   | lb    | kg            | lb    |
| 3299     | 2.3T HL Snatch block | 38.5            | 1.5 | 11         | 7/16   | 2300                 | 5069  | 4600          | 10138 |
| 3300     | 5T HL Snatch block   | 56              | 2.2 | 16         | 5/8    | 5000                 | 11020 | 10000         | 22040 |
| 3301     | 8T HL Snatch block   | 75              | 3   | 18         | 3/4    | 8000                 | 17632 | 16000         | 35264 |
| 3302     | 12T HL Snatch block  | 101             | 4   | 30         | 1 3/16 | 12000                | 26448 | 24000         | 52896 |
| 3303     | 15T HL Snatch block  | 125             | 5   | 30         | 1 3/16 | 15000                | 33060 | 30000         | 66120 |

### General Warnings

**!** HL Snatch blocks are supplied by Harken with strops. Loads listed above assume that the standard Harken supplied strops are used.  
**WARNING!** Work with a rigger when using alternate spliced strops or fastenings. Knots or incorrect splices weaken strops considerably. Use only Harken-supplied replacement strops, or work with a qualified rigging supplier when replacing strops.

**!** Warning! Block loads increase when the line turns at a greater angle. Block loads double when the line turns 180 degrees. See example above. Use block loading factors. Select blocks and application carefully.

## Attaching Block

1. Unwrap the Velcro band, leaving it secured to the closed slots in the alpha cheek.
2. Remove the larger strop eye from the thimble on the beta cheek by sweeping your fingers toward the eye between strop and beta cheek.

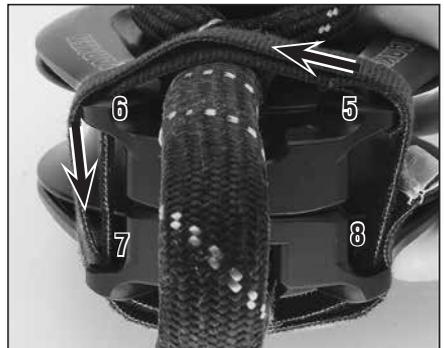


3. Rotate the cheeks to load line on sheave. Close cheeks making sure they align, there is an audible clicking sound as the locking ball seats. The 3303 block 15T has a pull pin, not a Turlon ball.
4. Pass the strop around the anchor point and slip the strop's large eye over the beta cheek's thimble.

5. Rewrap the Velcro band. Make sure the Velcro band always starts with the sewn deadend passing over the strop and through the closed slot. The wrap direction is counter-clockwise.



6. Pull the Velcro band tightly as you wrap. Note: there is no need to pass the Velcro band through the closed slot on the band's second pass. Make sure the band is securely seated in the open slots on the beta cheek. Press band in place to secure Velcro, and tuck the reflective band into open slots.



## Inspect Parts Every Time You Sail

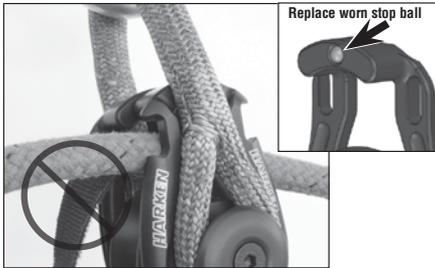
Inspect strop. Replace if there are signs of fatigue, strand separation, wear, or if the colored tracer fades from UV damage.

**!** **WARNING!** Failure to inspect and correct block, strop and Velcro, and stop or lashing can result in block breaking below rated load. Inspect parts each time you sail. If parts are under load during long passages, it is important to inspect them carefully while underway. If in doubt, replace.



Always check the Velcro band to make sure it is secure. Replace the band if it loses holding ability. Check and replace stop ball if it becomes worn.

**!** **WARNING!** Make sure Velcro band is correctly wrapped and has good holding properties. If the band does not hold, the sheet can catch the open slots when sail is flogging and accidentally open.



## Never Secure to Head

**!** **WARNING!** Never attach load-bearing lashings, loop, or strop to the head of the block. This will drastically weaken block so it will break under low load. Use only Harken supplied strops or equivalent secured to thimbles.



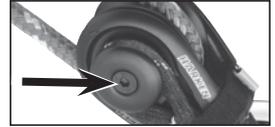
Correct



Incorrect

## Inspect Parts Every Time You Sail

Inspect screws to make sure they are tight. If loose, remove and use threadlocker to secure.

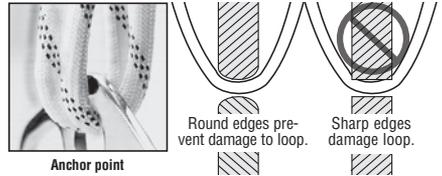


**!** **WARNING!** Inspect fasteners to make sure they are tight and secure with blue Loctite® adhesive or equivalent.

## Anchor Point Chafing or Cutting

**!** **WARNING!** Loops or lashings running over a sharp edge can cause part to break under load. Attach to fitting with a rounded edge.

Loops must attach to round bails such as those on padeyes or pins. Sharp edges on many perforated toerails will cut loop, severely weakening it. When loop is attached to a plate, it must be thick enough and have rounded edges to keep loop from being damaged.



Anchor point

## Short-Term Maintenance

Flush block and attachments frequently with detergent and fresh water. Clean bearings by flushing areas shown while rotating sheave.



## Long-Term Maintenance

Disassemble block. Flush with detergent and fresh water. See assembly on next page.



## Reorder Parts



3299 block is riveted. Components are not replaceable.



Raised tab must match notch



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## Replacement part numbers

| Block | Fastener FHCS (2) | Size (mm) | Thimble cap (2) | Thimble (2) | Mylar washer (3) | Beta cheek | Sheave with ULC bearing | Torlon Balls | Size (Qty) | Axle    | Alpha cheek with band | Stop ball | Strop   |
|-------|-------------------|-----------|-----------------|-------------|------------------|------------|-------------------------|--------------|------------|---------|-----------------------|-----------|---------|
| 3300  | HFS1367           | 6X12      | H-71376         | H-71375     | H-22888A         | AL-4092    | *                       | MP-126       | 1/4" (30)  | MS-518  | H-72108               | MP-117    | H-70938 |
| 3301  | HFS1365           | 8X16      | H-72105         | H-72102     | H-46227          | AL-4089    | *                       | MP-129       | 5/16" (34) | MS-519  | H-72115               | MP-117    | H-72106 |
| 3302  | HFS1366           | 12X20     | H-72167         | H-72164     | H-45007          | AL-4088    | *                       | MP-127       | 3/8" (38)  | MS-520† | H-72171               | MP-117    | H-72168 |
| 3303  | HFS1368           | 12X25     | H-72275         | H-72274     | H-49195          | AL-4086    | *                       | MP-128       | 1/2" (34)  | MS-521  | H-72270               | **        | H-72276 |

\* Sheaves have pressed-in ULC composite sleeve bearings. Contact Harken

\*\* Beta cheek in 3303 block uses spring loaded pinstop.

† Titanium plates available, order MS-549

## General Maintenance

Harken equipment requires minimal maintenance, but some is required to give the best service and to comply with Harken's limited warranty.

It is important to keep equipment clean by frequently flushing with fresh water. In corrosive atmospheres, stainless parts can show discoloration around holes, rivets, and screws. This is not serious and can be removed with a fine abrasive.

Flush blocks thoroughly with fresh water. Periodically, disassemble the blocks and clean with detergent and 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; [www.harken.com/manuals](http://www.harken.com/manuals) or the Harken catalog.