

# Rappelling - Stainless Steel Racks

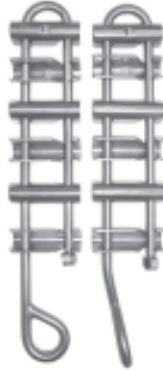
## Open Frame Racks

- ✓ An open frame makes it easy to add or remove bars.
- ✓ The bars are stainless steel and available in 2 styles: either machined tubular or U-shaped. The U-shaped bars are good for beginners as it is easier to tell if the rack is threaded correctly.
- ✓ Some racks are available with either a "straight" or "90°" harness attachment eye. (See "Hyperbars and Rack Orientation" below for your particular needs.)
- ✓ Some racks are available with a hyperbar. A hyperbar provides additional control and easier lock offs.

### SMC Open Frame Rack

SM13006S (straight eye) \$86.50  
SM13506S (90° eye) \$86.50

- ✓ U-shaped bars.
- ✓ 2 grooved bars and 4 regular bars.
- ✓ Order either a straight eye or a 90° eye.



### BMS Open Frame Rack

R52 (straight eye) \$134.00  
R52-90 (90° eye) \$134.00

- ✓ Tubular bars.
- ✓ 2nd bar is straight cut to make sure the rack does not get threaded backwards.
- ✓ Order either a straight eye or a 90° eye.



### BMS 24" Long Rack

BMS-R65 \$188.50  
BMS-R65-F (Frame Only) \$85.00

- ✓ Tubular bars.
- ✓ This rack has a 24" frame and is suitable for big drops, such as El Capitan, Golondrinas or Mt. Thor.



## Hyperbars

Exchanging the top bar of a U-shaped bar rack with a hyperbar also requires the replacement of the two bottom bars with tubular slant slot bars. Replacement bars are available on the next page.

### OR1 Ultimate Rack

R60 \$156.00

- ✓ Tubular bars.
- ✓ Double rope capacity that incorporates a hyperbar, SMC oversized grooved bar and 4 tubular slant gate bars.
- ✓ This rack is capable of handling long drops on most sizes of rope.



### OR1 Narrow Rack

R53 \$115.00

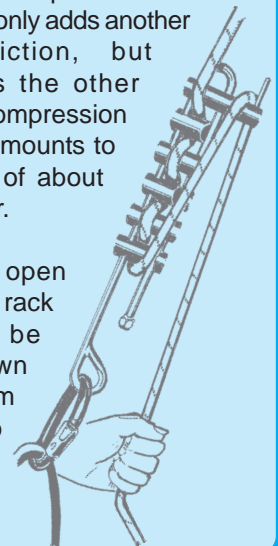
- ✓ Tubular bars.
- ✓ Light weight option to the Ultimate rack.
- ✓ Preferred by those with smaller hands.
- ✓ The narrow frame still fits twin 11mm ropes for a pull down, while engaging the rack's legs into the friction component.



## Hyperbars and Rack Orientation

Extending the rope over the hyperbar not only adds another bar of friction, but compresses the other bars. This compression of the rope amounts to the addition of about one more bar.

Notice: The open short leg of a rack should be oriented down and away from the user to facilitate bar changing.



## Be careful with Aluminum Rappel Devices

Nylon, while rappelling, begins to glaze (get sticky) at 250° F. A typical 5 feet per second rappel will reach over 300° on a 200 foot rappel. Even though aluminum provides more friction, it does so at the risk of damaging the rope.

Beyond this obvious problem, aluminum discolors the rope and leaves potentially damaging aluminum particles on the rope.

Based on this, On Rope 1 chooses not to stock aluminum brake bars. You may require more steel than aluminum bars for the same amount of friction.

**Note:** Small rappel devices (i.e. ATC/Stitchplate) rise in temperature quickly while longer devices (i.e. 14" racks) rise in temperature much slower.

# Rappelling - Stainless Steel Racks

## Closed Frame Racks

- ✓ These closed frames have a high strength rating (14,000 lbs. plus).
- ✓ All the bars on these racks are machined, tubular stainless steel.
- ✓ Changing bars is not as simple as with open frames. When using closed frame racks with 4 or less bars, the rope should be threaded through all bars throughout the rappel.
- ✓ Hyperbars are available for some racks. A hyperbar makes it easier to lock off and provides extra control.

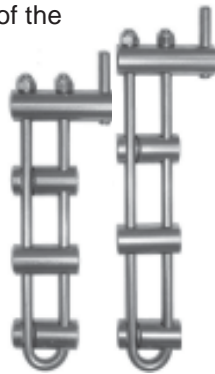
### Micro Racks

Note: These smaller racks are serious, advanced skill equipment and should not be used as a beginner's or child's descending device.

### BMS Micro Racks

BMS-R50 (short) \$67.50  
BMS-R50L (long) \$69.75

- ✓ Tubular bars.
- ✓ Almost 1/2 the size of the open frame racks.
- ✓ Recommended for light loads or small people on stiff rope.
- ✓ Available in 2 lengths: short for 10-11mm ropes and long for 11-12.5 ropes or longer drops.



### BMS Micro - Dual Hyper

BMS-R50LD \$76.50

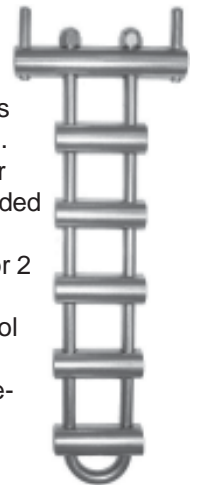
- ✓ Tubular bars.
- ✓ Has a 2nd inverted hyperbar below the top hyperbar that allows the user to take an additional wrap around the hyperbars to further increase the load handling ability.



### BMS 6-Bar Rescue Rack

BMS-R56 \$103.00

- ✓ Tubular bars.
- ✓ Frame strength: 20,000+ lbs.
- ✓ Easily accommodates two 12.5mm ropes.
- ✓ Top double hyperbar design provides added load control operations for either 1 or 2 ropes allowing independent control over both ropes.
- ✓ Meets NFPA requirements.



### SMC Rack Frames

SM13002 (straight eye) \$36.50  
SM13502 (90° eye) \$36.50

- ✓ Type #304 stainless steel.
- ✓ 6 bar capacity.
- ✓ Welded eye for extra strength.
- ✓ Each eye weld is inspected for dye penetration before shipping.
- ✓ Average tensile strength of material used is over 10,000 lbs.



## Brake Bars

- ✓ OR1 only carries stainless brake bars. Stainless bars last longer, stay cooler than aluminum and keep your rope clean. All are SMC compatible.



### Set of U-Shaped Bars

OR1-Bars-U \$50.00

- ✓ 6 bar set consists of:
  - ◆ 2 grooved bars (SM12501)
  - ◆ 4 standard bars (SM12500)

### Set of Tubular Bars

OR1-Bars-T \$97.00

- ✓ 6 bar set consists of:
  - ◆ 1 grooved bar, schedule 80 (BSM03)
  - ◆ 5 slant slot bars (BMS01)

Picture	Item #	Description	Bar Type	Slot Type	Grooved	Hyper	Price
1	SM11000	SMC Top Bar Very Thick Gauge	Tubular	Slant	Yes	No	\$38.50
2	SM12500	SMC Bar	U-Shaped	Slant	No	No	\$8.25
3	SM12501	SMC Bar w/ Groove	U-Shaped	Slant	Yes	No	\$8.50
4	BMS01	BMS Bar	Tubular	Slant	No	No	\$15.00
5	BMS03	BMS Schedule 80 Heavy Grooved Bar	Tubular	Straight	Yes	No	\$22.50
6	BMS04	BMS Hyperbar	Tubular	Slant	No	Yes	\$21.00

# Rappelling - Figure 8's

## Figure 8's

- ✓ Figure 8 descenders are best used on rappels that are 75 feet or less.
- ✓ These descenders provide a fixed amount of friction that can only be altered with the rappeller's brake hand once the rope is threaded through the device.
- ✓ Rope twist will occur when these devices are used. This could be a concern on free-rappels as the rappeller could spin during descent. Also, these devices radically bend the rope suggesting early rope retirement.



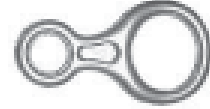
ABC



Blue Water



Kong



CMI

Mfg.	Description	Strength	Weight	Color	Item #	Price
ABC	Classic 8. Smooth action for frozen, muddy or clean ropes. Call or visit <a href="http://www.onrope1.com">www.onrope1.com</a> for color choices.	25kN	100g	Bright	432820	\$10.50
				Colors	432811	\$11.50
Blue Water	Anodized finish does not leave a ragged edge when it wears.	30kN	132g	Blue	601301	\$12.00
Kong	A simple, classic shape and size. Comes in a variety of colors. Call or visit <a href="http://www.onrope1.com">www.onrope1.com</a> for color choices.	35kN	135g	Bright	434498	\$11.25
				Colors	434499	\$13.50
CMI	Forged out of aircraft grade aluminum alloys.	35kN	117g	Bright	R800FP	\$14.50

### PMI Steel Rescue 8

HD26100 \$62.00

- ✓ For extra-gritty environments or heavy use.
- ✓ **Drop forged steel.**
- ✓ Accepts rope up to 5/8".
- ✓ Silver color.
- ✓ Weight: 544 g
- ✓ NFPA



### Petzl Pirana

D05 \$32.95

- ✓ Canyoning descender for single or double rope.
- ✓ Offers 3 different braking positions to choose from.
- ✓ Has 2 friction cleats for adjusting the descent speed.
- ✓ Can be threaded without the descender being unclipped from the rappeller.
- ✓ Aluminum
- ✓ Weight: 90 g



### SMC Descent Control 8

SM113000 \$50.00

- ✓ Unique shape and wide "shoulders" helps prevent the formation of a girth hitch.
- ✓ Welded, stainless steel.
- ✓ Silver color.
- ✓ Weight: 214 g



### Kong Rescue 8

K081 - Stainless \$43.00

K081A - Polished Aluminum \$35.00

- ✓ **Stainless steel rated to 50kN, Aluminum to 40kN.**
- ✓ Accepts rope up to 5/8".
- ✓ Silver color.
- ✓ Weights:
  - Steel - 750 g
  - Alum - 260 g
- ✓ INOX AISI 304



### RA/SMC Large Figure 8

SM142000 \$54.00

- ✓ "Ears" are designed to prevent a girth hitch.
- ✓ Machined from heat-treated, 1/2" aluminum bar stock.
- ✓ Accepts rope up to 5/8".
- ✓ Grey anodized.
- ✓ Weight: 227 g



### SMC Descending Ring

SM81600 \$2.50

- ✓ An inexpensive aluminum ring that is intended to be left at the top of a pull-down rappel.
- ✓ 1-1/2" inside diameter.
- ✓ One-piece, no weld.
- ✓ Weight: 11 g
- ✓ Strength: 15 kN



# Rappelling - Bobbins, Personal Escape

## Bobbins

- ✓ These in-line rappel devices are favored among those who use a Frog climbing system.
- ✓ A bobbin is preferred over a Figure 8 on long drops, but it does not have the speed control or durability of a rack.
- ✓ Many bobbins have a self braking mechanism which may be desirable for beginners or children.

### Petzl Simple / Petzl Stop

D09 - Stop \$89.95  
D04 - Simple \$49.95

- ✓ The Stop (D09) is an auto-braking descender. The Simple (D04) is NOT.
- ✓ The speed of descent is controlled by varying your grip on the free end of the rope.
- ✓ Rope size: 9-12mm
- ✓ Strength: 12 kN

Simple  Stop 

### Anthron DSD-30

DSD-30 \$120.00

- ✓ Self-braking descender.
- ✓ Double-stop action: Let go, it brakes; squeeze too hard, it brakes.
- ✓ Rope size: 11mm
- ✓ Weight: 340 g
- ✓ Strength: 12 kN



### Kong Indy

801 \$149.00

- ✓ Has a double autolocking action.
- ✓ This bobbin will self brake if no pressure is applied to the handle or if total pressure is applied.
- ✓ Rope size: 8-11mm
- ✓ Weight: 385 g
- ✓ Strength: 22 kN



## Belay & Descender Devices

- ✓ Used for belaying a climber, as a self-belay during a climb, and short rappels.

### Petzl I'D

D20S (10-11.5mm) \$195.95  
D20L (11.5-13mm) \$195.95

- ✓ Self-braking descender/belay device.
- ✓ Has an "anti-panic" function (locks if handle gripped too hard).
- ✓ Rope size: small for 10-11.5mm and large for 11.5-13mm
- ✓ Weight: 530 g
- ✓ NFPA



### Petzl Reverso

D15 \$27.95

- ✓ Use as a belay device or a descender.
- ✓ Separation of ropes for easier climbing.
- ✓ Does not twist the ropes.
- ✓ Rope size: 8-11mm
- ✓ Weight: 81 g



### Petzl GriGri

D14 - Steel Grey \$85.95  
D14R - Burgundy \$85.95  
D14B - Blue \$85.95

- ✓ Self-braking belay device and descender.
- ✓ As a belay device, a cam locks the rope when a fall occurs.
- ✓ Ideal for belaying the leader as well as the second.
- ✓ Use with 10-11 mm rope.
- ✓ Weight: 225 g



### Kong Chuy

432464 \$19.00

- ✓ Smooth feed and strong braking make this lightweight belay device a rock climber's favorite.
- ✓ Can be used as a light duty rappel device.
- ✓ Designed to withstand greater breaking force than spring plates.
- ✓ Weight: 160 g



## Personal Escape Devices

- ✓ These devices are for fast, escape rappels in emergency situations!

### SMC Personal Escape 8

SM126501N \$16.50

- ✓ Personal escape descender.
- ✓ The modified Figure 8 shape is optimized for descending on small diameter ropes.
- ✓ Easy to thread and remove.
- ✓ Anodized aluminum.
- ✓ Rope size: 5-10mm
- ✓ Weight: 57 g
- ✓ NFPA



### PMI PED

HD26024 \$26.00

- ✓ Personal escape descender.
- ✓ Can be pre-rigged on an escape rope and stored ready to go.
- ✓ Several threading options allow for differing rappeller weights and friction needs.
- ✓ Rope size: 8-13mm
- ✓ Weight: 42 g
- ✓ NFPA

