



PMI®

Ropes &  
equipment  
for your  
vertical  
world

*40<sup>th</sup> Anniversary Edition*

PROFESSIONAL ^ RECREATIONAL

**Catalog N° 216**



# PMI®

## Ropes & equipment for your vertical world

*PMI is delighted to present the 40<sup>th</sup> anniversary edition of our Work/Rescue catalog. PMI was founded by Steve Hudson, Richard Schreiber, Smokey Caldwell, and Bill Cuddington in 1976.*

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# Your safety is our priority!

Working safely at height requires a fine balance between following standard safety procedures and making good decisions on the fly. We're committed to helping you meet those challenges by providing accurate information, top-quality products, and educational resources for your safety.

*PMI Vertical Specialist Trask Bradbury performing safety inspections on board the USS Missouri (BB-63) with PMI® Extreme Pro™ ropes and other PMI gear. The US and Japan signed an agreement to end WWII on this US Navy battleship. It is now anchored at Ford Island in Pearl Harbor as a memorial museum.*





Photo Trask Bradbury

## PMI 40th Anniversary 1976–2016

Forty years ago, four caving buddies came together with a single wish: to build the perfect, high durability, high performance rope for caving. Together, they engineered PMI® Pit Rope (page 9) – still the rope of choice among recreational and expedition cavers in the harshest environments around the globe today.

With that single rope, Pigeon Mountain Industries (PMI) was born!

Steve Hudson, himself an avid caver, then began adapting his innovation to create additional ropes and products to meet the needs of his other passion: technical rope rescue. Guided by the principles of quality and integrity, he spent the next several decades making PMI rope right here in the USA.

PMI rope is still made in the heart of caving country, just on the edge of Pigeon Mountain, Georgia, with our Denver, Colorado office being home to PMI's training center, sales, and marketing. We are also proud to bring you some of the finest equipment on earth from folks like SMC, Cascade, SKEDCO, Harken, ClimbTech, and others.

PMI takes pride in the fact that our employees are rescuers, rope access technicians, cavers, and climbers themselves. We believe that the fact that PMI gear is created "by vertical professionals, for vertical professionals" is part of the reason that ours is the rope of choice not only for cavers but also for firefighters, rescuers, mountaineers, and rope technicians throughout the world. In fact, it is not uncommon for the term "rope" to be replaced by "PMI", as in "...rig up this PMI off that anchor!"

In 2013 the vertical world lost a true pioneer and innovator when Steve Hudson passed away. Today, PMI employees proudly carry on the tradition of quality and integrity that he initiated.

The year 2016 marks the 40th Anniversary of PMI Rope. We invite you to celebrate with us by getting vertical with PMI this year in honor of our founder and friend, Steve Hudson.

Rope is the foundation of any vertical system. PMI proudly manufactures rope in the USA, in our ISO 9001 Quality Registered facility. Whether you're looking for rope that meets Cordage Institute, NFPA, or CE standards, we've got you covered.

Rope

The smaller diameter flexible tension members you use are just as important as your rope. PMI is proud to offer USA Made cordage and webbing either by the spool or in sewn configurations.

Webbing  
and  
Cordage

There's just something, well, personal about personal gear. Whether you are a firefighter, rescue technician, or rope access worker, you can rely on PMI understanding, and striving to exceed your expectations.

Personal  
Gear

For most of our 40 years of existence, PMI has partnered with trusted hardware manufacturer SMC to bring you the very best in carabiners, pulleys, descenders, and other gear. Where SMC doesn't offer a solution, we do our level best to find the right tools from other sources to help you do your job.

Hardware

At PMI, we believe in simple elegance. As such, we are constantly seeking to provide the most elegant solutions to your everyday challenges. Here you'll find the Harken Powerseat alongside the Montezuma Cofferdam, complete systems for rescue from fall protection, and kits to simplify every operation.

Solutions  
and  
Kits

PMI understands patient care, because many of us continue to work in the field of rescue. We've chosen to work with people who exude excellence—companies whose values mirror our own. We consider Cascade Toboggan and SKEDCO to be among our favorite resources for patient care.

Patient  
Care

Sometimes it's the little things that make the most difference. PMI puts a great deal of effort and care into bringing you products like gear buckets, rope bags, bolt bags, and other organizers to help you stay ready at a moments notice.

Logistics  
and  
Support  
Gear

PMI knows that the most important part of any work at height is YOU. That's why we work hard to stay on top of the most current innovations and regulations so that we can bring you the very best training and education possible. Check us out—and let us know what we can do to serve you better!

Training  
and  
Education

# Rope

Rope is the foundation of any vertical system; compromise is never an option. PMI rope is proudly Made in the USA at our LaFayette, Georgia manufacturing facility. That's why we can say with such certainty that you can rely on PMI for maximum function, durability, and quality. With a product design team that engineers every rope to exacting specifications, PMI ropes are built and independently certified to applicable national and internationally recognized standards. With a variety of PMI ropes to offer different elongation, strength, diameter, and other characteristics, there's a product to meet whatever life safety need you have. If you're not sure which rope to choose for your application, ask your PMI Dealer or your PMI CSR.

## Rope at a glance

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## PMI Rope Design and Innovation

Creating the High Angle Technician's favorite rope is part science, part art. PMI's 40-year reputation for creating the toughest, most abrasion resistant, and most reliable life safety rope available comes from a refined blending of technology and passion. PMI helps drive research and testing in products, systems, and applications to make our products better so that your world can be safer. On the next few pages, you will find information that we hope helps you come to know the PMI line you use and trust.

PMI has an entire team of dedicated professionals standing by, ready to help you with your gear needs. If you have questions regarding PMI rope, and products, please call 1-800-282-ROPE (7673) or e-mail us at [custserv@pmirope.com](mailto:custserv@pmirope.com).

### Life Safety Rope

No single type of rope is ideal for every type of operation. Before purchasing, consider your intended use carefully and choose the PMI rope(s) most appropriate for the job you plan to do. Ropes for rappelling or lowering a single person will have different characteristics than ropes for lead climbing. Rescue ropes for heavy loads will differ from ropes used for water rescue. Other considerations include environmental effects, abrasion, ease of handling, and potential for chemical contamination.

### Classifications of Life Safety Rope

According to Cordage Institute standards, Life Safety Rope can be classified by the amount of elongation it offers under load. Static Kernmantle rope is the traditional American style rigging and rescue rope, offering less than 6% elongation at 10% of its minimum breaking strength. It is an excellent choice for lowering and raising because it is very durable and will not "creep" under load like low stretch ropes will.

By comparison, measured elongation of Low Stretch rope must be between 6-10% at 10% of its rated minimum breaking strength (MBS). Low Stretch rope is common in Rope Access. It often has a nice "hand" and good knotability, and may be preferable for belaying heavy loads. However, durability of this more flexible rope may not be as great as that of Static Rope.

Dynamic Rope is commonly used by recreational climbers, and is occasionally used in the workplace for "lead climbing" beyond anchor points. Dynamic rope is classified by rated number of falls rather than elongation, and should meet applicable standards such as UIAA.

### Alternative Fibers

Before deciding which rope is right for your task, consider the benefits of each fiber. While nylon has more ability to absorb shock, polyester elongates less under load. This means that you should take extra precautions to prevent shock loading if you choose to use a static rope made with polyester, but used in the right application, polyester can be a benefit to your system.

### Rope Strength

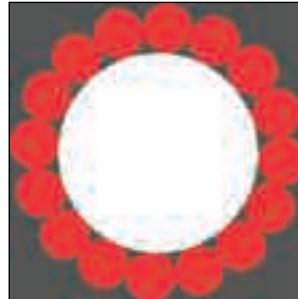
Often a key point in rope selection, rope strength is a function of what the rope is made of, how it is made, and how much fiber is in it. Desired strength must also be balanced against other factors such as diameter (compatibility with other gear), weight, flexibility, and anticipated use. How strong is strong enough?

PMI's 11 mm Classic Static Rope (page 7) has an MBS, commonly referred to as "minimum breaking strength", of about 6000 lbf. PMI's Classic 12.5 mm (page 7) has an MBS of over 9000 lbf. This means that this is how strong you can expect the rope to be (excluding variables such as knots, rigging, etc.), not how much force you should apply to it. Unless otherwise noted, all of the breaking strengths use the Three Sigma system of test results. Under this system, random samples are tested to failure, and then the value of three standard deviations is subtracted from the average breaking strength to determine the reported value.

### Advantages of 16-Carrier Sheath Design

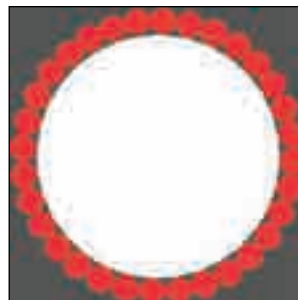
PMI Classic ropes are characterized, at least in part, by their "16-carrier" sheath design. The term "16-carrier" refers to the number of yarn bundles used to create the braid that makes up the sheath of the rope.

While PMI also offers several other braid designs like 32 and 48-carrier, one advantage of PMI's classic 16-carrier sheath design is the dramatic increase it lends to the life and durability of the rope. For any given diameter rope, sheath yarns have to be thinner for more carriers and thicker for fewer carriers. Using 16 braid bundles for the sheath of PMI's Classic allows us to use a thicker, more durable sheath yarn, resulting in a tougher, more durable rope. Sheath braid design is a fine balance between yarn denier, tension, number of carriers, and the amount of yarn used.



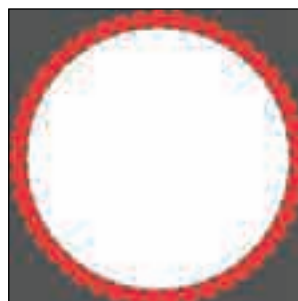
#### 16 Carriers

A 16-carrier sheath provides the most longevity for your rope. Essentially, it is made of larger bundles, so there is more yarn to wear through before reaching the core. All of PMI's Classic Static ropes have a 16-carrier sheath design.



#### 32 Carriers

It is common for low stretch ropes to be built with a 32-carrier sheath. This provides a flexible hand, but of course the compromise of a more flexible hand is always durability. PMI's Access Pro is an example of a 32-carrier rope that combines a flexible hand with the best abrasion resistance possible.



#### 48 Carriers

Many of the dynamic ropes on the market are made with a 48-carrier sheath. The 48-carrier sheath is thinner than its 16 and 32-carrier counterparts, but offers a soft hand for situations where suppleness and elongation are of greater concern than abrasion, such as in recreational climbing.

### Rope Diameter Reference Guide

#### 9 mm (23/64")

Expedition Caving,  
Fixed Lines.  
Excellent strength/  
weight ratio.



#### 10 mm (25/64")

Caving, Rope Access,  
Single Person Use.  
Preferred by experienced  
professionals.



#### 11 mm (7/16")

Rigging, Caving, Rope  
Access, and Rescue.  
A practical  
multi-purpose rope.



#### 12.5 mm (1/2")

Fire-Rescue, Rigging in  
harsh environments. A  
reliable staple on any  
fire truck.



#### 16 mm (5/8")

An extra heavy duty  
work horse that is  
easy to grip.



### Rope Diameter

Just as no single type of rope will be appropriate for every life safety application, no one size will fit all conditions. A philosophy of "bigger is better" leads to problems in handling and compatibility with other equipment, while a philosophy of "lighter is righter" may result in a rope too small.

Consider that a larger size rope will weigh more; affecting how well a person can carry it. Even when rigged, the extra weight of a larger rope can make it more difficult to handle and manipulate. In fact, this extra weight could be critically unwieldy to a free-hanging user.

A larger rope may also not fit certain pieces of hardware. More and more high technical descenders and belay device are very rope diameter specific for proper operation. Always ensure compatibility between components in your system.

Rope elongation is partially a function of diameter. For the same type of rope construction and a given load, elongation will be less on a larger rope.

### Life Safety Ropes

Static or Low Stretch ropes intended for life safety applications are always clearly noted as being for that purpose, and should be labeled in accordance with appropriate life safety equipment standards. In the U.S., test methods for static and low stretch ropes are set by the Cordage Institute. Look for ropes tested to Cordage Institute standard number CI1801.

Commodity ropes, such as clothesline, tie downs, or hardware store rope should not be used for life safety.

### ID Tape

Inside every PMI Life Safety rope is a marker tape that tells the story of that rope. From it, you can learn where, when, and by whom the rope was made. The marker tape runs the entire length of your PMI rope, repeating its key information every few feet.

### Middle Mark

Every PMI Dynamic™ rope has a middle mark so you can find the middle of the rope with ease. If the black mark wears, you can easily reapply with the PMI® Tec marker.

### Rope Length

When you buy a given length of PMI rope, we want to be sure you get what you pay for so we always add at least 2% more than the stated length on the label. Keep in mind, though... the fibers that rope is made of will shrink and stretch with weather changes and use. That's why your rope might be longer on one day than the next!

### Rope Elongation

Life Safety Rope is usually referred to in terms of elongation. Three common types of Life Safety Rope are Dynamic (high elongation for force absorption), Low Stretch (6-10% elongation @ 10% MBS), and Static (less than 6% elongation @ 10% MBS). These terms are merely descriptions by which ropes are 'typed' or categorized. The difference between Low Stretch and Static rope is relatively small. However, it is important to distinguish between these two when it comes to practical application.



*High angle rope techniques are inherently dangerous. Please take the time to read and understand this catalog and all instructions that come with the equipment you purchase. The information in this catalog is provided for making purchasing decisions only and is NOT a substitute for competent instruction and training in safety techniques. It is the responsibility of the user of this equipment to obtain competent instruction and to take adequate precautions for safety when using this equipment. The equipment described in this catalog is designed and tested for use in rope access, rescue, confined space, climbing, mountaineering, and caving. Use in any other application is at the discretion of the user.*



**PMI Rope Specifications and Certifications**

Find the right rope that meets all of your work and rescue specifications. Want information about how NFPA Certification works? Please see the NFPA paragraph on page 71.

	DIAMETER	SHEATH/CORE	WEIGHT	MBS	FALLS	COMPLIANT
<b>STATIC ROPE</b>						
PMI® Hudson Classic Professional	9 mm	Nylon/Nylon	53 g/m	18.3 kN (4114 lbf)		NFPA 1983 (2012), T C11801, Static EN 1891-A
PMI® Hudson Classic Professional	10 mm	Nylon/Nylon	66 g/m	26.5 kN (5957 lbf)		NFPA 1983 (2012), T C11801, Static EN 1891-A
PMI® Hudson Classic Professional	11 mm	Nylon/Nylon	80 g/m	28.5 kN (6407 lbf)		NFPA 1983 (2012), T C11801, Static ANSI Z359.1, 2007 EN 1891-A
PMI® Hudson Classic Professional	12.5 mm	Nylon/Nylon	104 g/m	42 kN (9442 lbf)		NFPA 1983 (2012), G C11801, Static ANSI Z359.1, 2007 EN 1891-A
PMI® Hudson Classic Professional	16 mm	Nylon/Nylon	145 g/m	68 kN (15287 lbf)		NFPA 1983 (2012), G C11801, Static ANSI Z359.1, 2007
PMI® Hudson Classic Professional w/Unicore®	12.5 mm	Nylon/Nylon	107 g/m	42.5 kN (9555 lbf)		NFPA 1983 (2012), G C11801, Static ANSI Z359.1, 2007
PMI® PIT	11 mm	Nylon/Nylon	85 g/m	31 kN (6969 lbf)		C11801, Static
PMI® Hudson Classic Pro-Max Wear	10 mm	Nylon/Nylon	66 g/m	23.8 kN (5350 lbf)		NFPA 1983 (2012), T C11801, Static
PMI® Hudson Classic Pro-Max Wear	10.5 mm	Nylon/Nylon	80 g/m	28.6 kN (6430 lbf)		NFPA 1983 (2012), T C11801, Static
PMI® Hudson Classic Pro-Max Wear	12.5 mm	Nylon/Nylon	104 g/m	42 kN (9442 lbf)		NFPA 1983 (2012), G C11801, Static
PMI® Hudson Classic Sport	9 mm	Nylon/Nylon	53 g/m	18.3 kN (4114 lbf)		C11801, Static
PMI® Hudson Classic Sport	10 mm	Nylon/Nylon	66 g/m	26.5 kN (5957 lbf)		C11801, Static
PMI® Hudson Classic Sport	11 mm	Nylon/Nylon	80 g/m	28.5 kN (6407 lbf)		C11801, Static
PMI® Extreme Pro™	11 mm	Polyester/Nylon	90 g/m	37.6 kN (8452 lbf)		NFPA 1983 (2012), T C11801, Static ANSI Z359.1, 2007
PMI® Isostatic	11.5 mm	Polyester/Polyester	96 g/m	29.4 kN (6609 lbf)		NFPA 1983 (2012), T C11801, Static
PMI® Isostatic	13 mm	Polyester/Polyester	125 g/m	43 kN (9667 lbf)		NFPA 1983 (2012), T C11801, Static
PMI® Retro	12.5 mm	Nylon/Nylon	104 g/m	42 kN (9442 lbf)		NFPA 1983 (2012), G C11801, Static
<b>LOW STRETCH ROPE</b>						
PMI® HeatShield™	11 mm	Technora®/Nylon	84.1 g/m	35.6 kN (8002 lbf)		C11801, Low Stretch
PMI® HeatShield™	12.5 mm	Technora®/Nylon	110.9 g/m	45.8 kN (10307 lbf)		C11801, Low Stretch
PMI® Access Pro	11 mm	Polyester/Nylon	84 g/m	27.4 kN (6167 lbf)		NFPA 1983 (2012), T CE C11801, Low Stretch ANSI Z359.1, 2007
Global Pro by PMI®	10.5 mm	Nylon/Nylon	65 g/m	27 kN (6069 lbf)		EN 1891-A CE C11801, Low Stretch
Global Pro by PMI®	11 mm	Nylon/Nylon	73 g/m	30 kN (6740 lbf)		EN 1891-A CE C11801, Low Stretch
<b>PERSONAL ESCAPE ROPE</b>						
PMI® PER	8 mm	Nylon/Nylon	39 g/m	14.5 kN (3269 lbf)		NFPA 1983 (2012), E
<b>WATER ROPE</b>						
PMI® Water Rescue	7 mm	Nylon/Polypropylene	34 g/m	8 kN (1798 lbf)		N/A
PMI® Water Rescue	10 mm	Nylon/Polypropylene	62 g/m	16 kN (3597 lbf)		N/A
PMI® Retro-Reflective Water Rescue	10 mm	Nylon/Polypropylene	62 g/m	16 kN (3597 lbf)		N/A
Economy Throw	8 mm	Polypropylene	31 g/m	5 kN (1124 lbf)		N/A
Economy Throw	10 mm	Polypropylene	41 g/m	10 kN (2248 lbf)		N/A
<b>DYNAMIC ROPE</b>						
10.6 mm Cirque	10.6 mm	Nylon/Nylon	71 g/m	8.1 kN	12	UIAA   EN 892
11 mm Latitude	11 mm	Nylon/Nylon	81 g/m	8.5 kN	16	UIAA   EN 892

# Static Rope

## PMI® Hudson Classic Professional

PMI®'s Classic EZ-Bend 16-carrier construction combined with the toughest nylon on the market makes PMI ropes some of the toughest in the world. PMI® Classic 16-carrier ropes will always beat 32, 40, and 48-carrier designs made with lesser quality nylons hands down in abrasion and real-world durability tests. Although all diameters of PMI® Classic rope are 16-carrier sheath design, the denier (thickness) of each diameter's sheath is different. It is carefully designed to provide the maximum abrasion resistance, "grab" the core to minimize sheath slippage, and provide the desired hand for the intended applications.

**Key Features:** NFPA Certified • 16-carrier construction • CI1801 • Third party certified by UL (Underwriters Laboratories) • Torsionally balanced, continuous filament nylon • Available in many colors • Also available in custom colors and lengths

**Colors:** Available colors for the PMI® Hudson Classic Professional. Rope colors and tracers vary with rope diameter. EZ-Bend ropes have two tracers. Max Wear ropes have one tracer.



### 9 mm (23/64")

The lightest certified PMI® Classic rope. If you need a rope that has a good strength to weight ratio, PMI® 9 mm will hold up to the test.

*Weight: 53.0 g/m » MBS: 18.3 kN (4114 lbf) » Elongation: 3.7% at 300 lbf | 5.4% at 600 lbf | 7.6% at 1000 lbf » Elongation at 10% MBS: 4.3%*

	White/Black		Orange/Black	
30 m (100 ft)	RR090WB030E	\$71.40	RR090OB030E	\$85.20
46 m (150 ft)	RR090WB046E	\$107.10	RR090OB046E	\$127.90
61 m (200 ft)	RR090WB061E	\$142.90	RR090OB061E	\$170.50
92 m (300 ft)	RR090WB092E	\$214.40	RR090OB092E	\$255.90
183 m (600 ft)	RR090WB183E	\$428.80	RR090OB183E	\$511.80

**COMPLIANT** CI1801, STATIC EN 1891-A

### 10 mm (25/64")

Preferred by experienced professionals, PMI® 10 mm is the ultimate choice for single person rope work.

*Weight: 66.0 g/m » MBS: 26.5 kN (5957 lbf) » Elongation: 2.4% at 300 lbf | 4.6% at 600 lbf | 7.4% at 1000 lbf » Elongation at 10% MBS: 4.7%*

	White/Orange		Orange/White		Red/White	Blue/White	Black	OD Green
30 m (100 ft)	RR100WO030E	\$81.70	RR100OW030E	RR100RW030E	RR100BW030E		RR100D030E	\$94.30
46 m (150 ft)	RR100WO046E	\$122.60	RR100OW046E	RR100RW046E	RR100BW046E	RR100BK046E	RR100D046E	\$141.50
61 m (200 ft)	RR100WO061E	\$163.40	RR100OW061E	RR100RW061E	RR100BW061E		RR100D061E	\$188.70
92 m (300 ft)	RR100WO092E	\$245.30	RR100OW092E	RR100RW092E	RR100BW092E	RR100BK092E	RR100D092E	\$283.20
183 m (600 ft)	RR100WO183E	\$490.60	RR100OW183E	RR100RW183E	RR100BW183E	RR100BK183E	RR100D183E	\$566.50
200 m (656 ft)	RR100WO200E	\$536.50	RR100OW200E	RR100RW200E	RR100BW200E	RR100BK200E	RR100D200E	\$619.40

**COMPLIANT** NFPA 1983 (2012), T CI1801, STATIC EN 1891-A



## PMI® Hudson Classic Professional (continued)



### 11 mm (7/16")

The "time tested" burly sheath design of PMI's 11 mm Classic Static makes it a world favorite for professionals who must routinely subject their ropes to high abrasion applications. No other 11 mm rope will outlast a PMI® Classic in side by side, real world applications except a PMI® Max Wear rope or a PMI® HeatShield™ rope.

Weight: 80.0 g/m » MBS: 28.5 kN (6407 lbf) » Elongation: 1.8% at 300 lbf | 3.7% at 600 lbf | 5.6% at 1000 lbf » Elongation at 10% MBS: 3.7%

	White/Black		Yellow/Black	Orange/Black	Red/Black	Blue/Black	
30 m (100 ft)	RR110WB030E	\$94.30	RR110YB030E	RR110OB030E	RR110RB030E	RR110BB030E	\$114.30
46 m (150 ft)	RR110WB046E	\$141.50	RR110YB046E	RR110OB046E	RR110RB046E	RR110BB046E	\$171.50
61 m (200 ft)	RR110WB061E	\$188.70	RR110YB061E	RR110OB061E	RR110RB061E	RR110BB061E	\$228.70
92 m (300 ft)	RR110WB092E	\$283.20	RR110YB092E	RR110OB092E	RR110RB092E	RR110BB092E	\$343.20
183 m (600 ft)	RR110WB183E	\$566.50	RR110YB183E	RR110OB183E	RR110RB183E	RR110BB183E	\$686.50
200 m (656 ft)	RR110WB200E	\$619.40	RR110YB200E	RR110OB200E	RR110RB200E	RR110BB200E	\$750.70
	Black	Blue	Red				
30 m (100 ft)	RR110BK030E	RR110BL030E	RR110RD030E	\$114.30			
46 m (150 ft)	RR110BK046E	RR110BL046E	RR110RD046E	\$171.50			
61 m (200 ft)	RR110BK061E	RR110BL061E	RR110RD061E	\$228.70			
92 m (300 ft)	RR110BK092E	RR110BL092E	RR110RD092E	\$343.20			
183 m (600 ft)	RR110BK183E	RR110BL183E	RR110RD183E	\$686.50			
200 m (656 ft)	RR110BK200E	RR110BL200E	RR110RD200E	\$750.70			

**COMPLIANT** NFPA 1983 (2012), T C11801, STATIC ANSI Z359.1, 2007 EN 1891-A

### 12.5 mm (1/2")

PMI® 12.5 mm is the classic 6,6 nylon line for any rugged or harsh environment. High abrasion resistance makes this the toughest rope for any professional.

Weight: 104.0 g/m » MBS: 42 kN (9442 lbf) » Elongation: 1.3% at 300 lbf | 2.9% at 600 lbf | 4.7% at 1000 lbf » Elongation at 10% MBS: 4.2%

	White/Orange		Yellow/White	Orange/White	Red/White	Blue/White	
30 m (100 ft)	RR125WO030E	\$111.70	RR125YW030E	RR125OW030E	RR125RW030E	RR125BW030E	\$131.10
46 m (150 ft)	RR125WO046E	\$167.60	RR125YW046E	RR125OW046E	RR125RW046E	RR125BW046E	\$196.70
61 m (200 ft)	RR125WO061E	\$223.40	RR125YW061E	RR125OW061E	RR125RW061E	RR125BW061E	\$262.20
92 m (300 ft)	RR125WO092E	\$335.30	RR125YW092E	RR125OW092E	RR125RW092E	RR125BW092E	\$393.50
183 m (600 ft)	RR125WO183E	\$670.60	RR125YW183E	RR125OW183E	RR125RW183E	RR125BW183E	\$787.10
200 m (656 ft)	RR125WO200E	\$733.30	RR125YW200E	RR125OW200E	RR125RW200E	RR125BW200E	\$860.70
	Black	Blue	Red	OD Green			
30 m (100 ft)	RR125BK030E	RR125BL030E	RR125RD030E	RR125OD030E	\$131.10		
46 m (150 ft)	RR125BK046E	RR125BL046E	RR125RD046E	RR125OD046E	\$196.70		
61 m (200 ft)	RR125BK061E	RR125BL061E	RR125RD061E	RR125OD061E	\$262.20		
92 m (300 ft)	RR125BK092E	RR125BL092E	RR125RD092E	RR125OD092E	\$393.50		
183 m (600 ft)	RR125BK183E	RR125BL183E	RR125RD183E	RR125OD183E	\$787.10		
200 m (656 ft)	RR125BK200E	RR125BL200E	RR125RD200E	RR125OD200E	\$860.70		

**COMPLIANT** NFPA 1983 (2012), G C11801, STATIC ANSI Z359.1, 2007 EN 1891-A

### 16 mm (5/8")

An extra heavy duty work horse that is easy to grip, the 16 mm PMI® can take on any job.

Weight: 145.0 g/m » MBS: 68 kN (15287 lbf) » Elongation: 1.0% at 300 lbf | 2.0% at 600 lbf | 2.8% at 1000 lbf » Elongation at 10% MBS: 3.3%

	Yellow/White	
30 m (100 ft)	RR160YW030E	\$162.60
46 m (150 ft)	RR160YW046E	\$243.90
61 m (200 ft)	RR160YW061E	\$325.20
92 m (300 ft)	RR160YW092E	\$488.00
183 m (600 ft)	RR160YW183E	\$976.00
200 m (656 ft)	RR160YW200E	\$1,067.20

**COMPLIANT** NFPA 1983 (2012), G C11801, STATIC ANSI Z359.1, 2007

Webbing  
and Cordage

Personal  
Gear

Hardware

Solutions  
and Kits

Patent  
Care

Logistics and  
Support Gear

Training and  
Education

*Looking for a special color combination, or a longer rope to rig across America? PMI Ropes are made right here in the USA, and customizing solutions to fit your needs is one of our specialties. Give us a call! Minimum order applies.*

# Static Rope

## PMI® Retro **MADE IN THE USA**

The longest lasting, highest visibility rope you can buy for low light environments. Our special Retro Reflective material stands out like a beacon in the darkest night when a light is shined on it. Please also see our PMI® Retro-Reflective Water Rescue rope on page 16.

**Key Features:** Classic EZ-Bend • Retro reflective filaments • Increases nighttime safety

### 12.5 mm (1/2")

Weight: 104.0 g/m » MBS: 42 kN (9442 lbf) » Elongation: 1.3% at 300 lbf | 2.9% at 600 lbf | 4.7% at 1000 lbf » Elongation at 10% MBS: 4.2%

**COMPLIANT** NFPA 1983 (2012), G CI1801, STATIC



### Yellow/Brown Retro

30 m (100 ft)	RR125YG030EV	\$169.60
46 m (150 ft)	RR125YG046EV	\$254.50
61 m (200 ft)	RR125YG061EV	\$339.30
92 m (300 ft)	RR125YG092EV	\$509.10
183 m (600 ft)	RR125YG183EV	\$1,018.30
200 m (656 ft)	RR125YG200EV	\$1,113.50

## PMI® Hudson Classic Sport **MADE IN THE USA**

PMI® Classic static rope has been at the heart of mountaineering and caving worldwide for 40 years. Extreme durability and substance you can rely on are what this rope is known for. Built to exacting Cordage Institute Life Safety Rope requirements, this rope features a hard-wearing 16-carrier nylon sheath and a static core design. PMI® Classic Sport rope normally features an EZ-Bend Sheath, offering a fine balance between extraordinary abrasion-resistance and good knotability.

PMI® Hudson Classic Sport 11mm may be ordered with the Max Wear sheath design. Please ask your PMI representative for ordering assistance.

**Key Features:** 16-carrier construction • Nylon • Classic construction

### 9 mm (23/64")

Weight: 53.0 g/m » MBS: 18.3 kN (4114 lbf) » Elongation: 3.7% at 300 lbf | 5.4% at 600 lbf | 7.6% at 1000 lbf » Elongation at 10% MBS: 4.3%

#### White/Red/Black

46 m (150 ft)	SR090WZ046E	\$104.90
61 m (200 ft)	SR090WZ061E	\$139.90
92 m (300 ft)	SR090WZ092E	\$210.00
183 m (600 ft)	SR090WZ183E	\$420.00
200 m (656 ft)	SR090WZ200E	\$459.30

**COMPLIANT** CI1801, STATIC

### 10 mm (25/64")

Weight: 66.0 g/m » MBS: 26.5 kN (5957 lbf) » Elongation: 2.4% at 300 lbf | 4.6% at 600 lbf | 7.4% at 1000 lbf » Elongation at 10% MBS: 4.7%

#### White/Red/Black

46 m (150 ft)	SR100WZ046E	\$120.40
61 m (200 ft)	SR100WZ061E	\$160.50
92 m (300 ft)	SR100WZ092E	\$240.90
183 m (600 ft)	SR100WZ183E	\$481.80
200 m (656 ft)	SR100WZ200E	\$526.80

**COMPLIANT** CI1801, STATIC

### 11 mm (7/16")

Weight: 80.0 g/m » MBS: 28.5 kN (6407 lbf) » Elongation: 1.8% at 300 lbf | 3.7% at 600 lbf | 5.6% at 1000 lbf » Elongation at 10% MBS: 3.7%

#### White/Red/Black

46 m (150 ft)	SR110WZ046E	\$139.30
61 m (200 ft)	SR110WZ061E	\$185.80
92 m (300 ft)	SR110WZ092E	\$278.80
183 m (600 ft)	SR110WZ183E	\$557.40
200 m (656 ft)	SR110WZ200E	\$609.80

**COMPLIANT** CI1801, STATIC

## PMI® Hudson Classic Professional - Max Wear **MADE IN THE USA**

Extreme environments require this extreme rope. Those who work in rugged terrain appreciate the superior abrasion resistance of this sturdy line. Also available in custom colors and lengths, minimum lengths apply. This rope is extremely durable, but it has a much stiffer hand than PMI® Classic. PMI® Max Wear also has only one stripe over the base color while Classic EZ-Bend has two stripes over the base color. Contact PMI customer service for availability, delivery, and custom pricing.

### 10 mm (25/64")

Weight: 66.0 g/m » MBS: 23.8 kN (5350 lbf) » Elongation: 2.7% at 300 lbf | 5.1% at 600 lbf | 7.1% at 1000 lbf » Elongation at 10% MBS: 4.4%

#### White/Orange

61 m (200 ft)	RR100WO061M	\$163.40
200 m (656 ft)	RR100WO200M	\$536.50

**COMPLIANT** NFPA 1983 (2012), T CI1801, STATIC



### 10.5 mm (7/16")

Weight: 80.0 g/m » MBS: 28.6 kN (6430 lbf) » Elongation: 2.7% at 300 lbf | 4.6% at 600 lbf | 6.5% at 1000 lbf » Elongation at 10% MBS: 5.0%

#### White/Black

200 m (656 ft)	RR110WB200M	\$619.40
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**COMPLIANT** NFPA 1983 (2012), T CI1801, STATIC



### 12.5 mm (1/2")

Weight: 104.0 g/m » MBS: 42 kN (9442 lbf) » Elongation: 2.1% at 300 lbf | 3.4% at 600 lbf | 5.8% at 1000 lbf » Elongation at 10% MBS: 5.6%

#### White/Orange

183 m (600 ft)	RR125WO183M	\$670.60
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**COMPLIANT** NFPA 1983 (2012), G CI1801, STATIC



PMI® Pit Rope  **MADE IN THE USA**

The TAG caver's first choice! In celebration of our 40th anniversary, PMI is delighted to again present the rope that started PMI in 1976. We have never stopped making this rope and have sold it for all 40 years, however, the last time it was in our Work/Rescue catalog was 2009.

Considered the Gold Standard of caving ropes by recreational cavers and rescuers alike, PMI Pit Rope is one of the burliest and longest-lasting ropes available today. The Max-Wear sheath is designed to withstand the harshest of cave environments, and makes ascending rope a breeze with its low elongation and compatibility with most, if not all, SRT climbing systems. This iconic rope stands the test of time, and will easily survive trip after trip being dragged through miles of cave passages and/or being rigged in raging waterfalls. While PMI Pit Rope is the original caver's rope, don't be fooled: it is also a perfect tool for anyone that needs an incredibly durable workhorse where abrasion, resistance and reliability are paramount.

**11 mm (7/16")**

Weight: 85 g/m » MBS: 31 kN (6969 lbf) » Elongation: 1.8% @ 300 lbf | 3.6% @ 600 lbf | 7% @ 1000 lbf » Elongation at 10% MBS: 4.6%

White

92 m (300 ft)	RR160YW061E	\$278.80
183 m (600 ft)	RR160YW092E	\$557.70
200 m (656 ft)	RR160YW183E	\$609.80
366 m (1200 ft)	RR160YW200E	\$1,115.10



**COMPLIANT** CI1801, STATIC



Photo Kasia Biernacka

Webbing  
and Cordage

Personal  
Gear

Hardware

Solutions  
and Kits

Patient  
Care

Logistics and  
Support Gear

Training and  
Education

# Static Rope

## PMI® Hudson Classic Professional with Unicore®

An incredible PMI rope for Fire/Rescue professionals, the Classic Pro with Unicore® technology is now available in a 12.5mm (1/2") diameter. Unicore® technology creates the ultimate bond between sheath and core. This bond ensures sheath slippage is nearly zero, even when the sheath is entirely cut circumferentially. This rope allows the firefighter or rope technician to pass either a cut or torn sheath area, whether descending or ascending, since the sheath cannot bunch to create an impasse.

**Key Features:** Unicore® technology • Nearly zero sheath slippage • NFPA Certified • 16-carrier construction • CI 1801 Certified • Torsionally balanced, continuous filament nylon • Made in the USA



### 12.5mm (1/2")

Weight: 107 g/m » MBS: 42.5 kN (9555 lbf) » Elongation at 10% MBS: 3.7%  
 » Elongation: 0.8% at 300 lbf | 1.9% at 600 lbf | 3.9% at 1000 lbf

	Blue/White/Orange	Orange/White/Blue	
46 m (150 ft)	RR125BW046UC	RR125OW046UC	\$212.10
61 m (200 ft)	RR125BW061UC	RR125OW061UC	\$282.80
92 m (300 ft)	RR125BW092UC	RR125OW092UC	\$424.40
183 m (600 ft)	RR125BW183UC	RR125OW183UC	\$848.90



Custom orders accepted only for lengths longer than 183 m

**COMPLIANT** NFPA 1983 (2012), G ANSI Z359.1, 2007 CI1801, STATIC

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education



## PMI® Extreme Pro™

An incredible PMI rope, Extreme Pro™ with Unicore® technology is the ultimate polyester kernmantle rope. Unicore® technology creates the ultimate bond between sheath and core. This bond ensures sheath slippage is nearly zero, even when the sheath is entirely cut circumferentially. Typically when such sheath damage occurs, the sheath bunches below the damaged area entrapping the rope technician either above or below the damage site. This rope allows the technician to pass either a cut or torn sheath area, whether descending or ascending, since the sheath cannot bunch to create an impasse.

- Key Features:** Unicore® technology •  
 Nearly zero sheath slippage •  
 Sheath - 100% Polyester •  
 Core - 100% Nylon 6.6

### 11 mm (7/16")

Weight: 90.0 g/m » MBS: 37.6 kN (8452lbf) »  
 Elongation: 1.8% at 300 lbf | 3.7% at 600 lbf | 6.0% at 1000 lbf »  
 Elongation at 10% MBS: 5.0%

	Green/White/Orange	Coyote/White/Orange	
61 m (200 ft)	PR110E1061UC	PR110E2061UC	\$211.70
92 m (300 ft)	PR110E1092UC	PR110E2092UC	\$317.60
183 m (600 ft)	PR110E1183UC	PR110E2183UC	\$635.30
> 183 meter order	PR110E1001UC	PR110E2001UC	\$3.60 per meter

Custom orders accepted for lengths greater than 183 meters. Call Customer Service for details.

**COMPLIANT** NFPA 1983 (2012), T C11801, STATIC ANSI Z359.1, 2007



### Unicore® Features

Unicore® technology effectively links the core and the sheath of these rescue ropes in a way that broadly limits movement between the two parts so that they work better together. Unicore® ropes eliminate sheath slippage, allow for safe escape should the sheath be cut, makes rope cutting easy with a single blade without heating and reduces shrinkage in water by more than 50%. Unicore® ropes stay more supple, more agreeable to handle and have a longer lifetime.

By having a more free-running sheath than on a standard kernmantle rope, friction against rock and through the carabiners is reduced, resistance to abrasion is improved and the effort of pulling slack and clippings is greatly lessened. The rescuer really has the sensation of handling a much thinner and lighter rope because of the increased fluidity, while retaining the assurance of a rope of higher diameter.



Photo Trask Bradbury

# Static Rope

## Horizontal Rigging

Rope sag due to elongation (stretch) is often an issue with highlines. Too much sag can make it difficult to clear obstacles. Excessive sag in a horizontal highline will also increase the amount of work required to manage a load across the span. Polyester core kernmantle ropes help reduce this sag due to their much lower elongation under load. PMI's Talon and Isostatic polyester core ropes are a great choice as track lines in a highline operation. Choosing a low elongation rope will make it easier to tighten the highline and less sag will be induced in the system as it is loaded. Keep in mind, however, that less catenary in the system will result in higher forces at the anchors - a situation that can easily be monitored by incorporating load cells into your system. Note also that the system will be much less forgiving of shock loading and great care should be taken to prevent dynamic loading events.

*Polyester ropes are perfect for situations when you need less stretch in your systems.*



## PMI® Isostatic



A PMI signature rope constructed of 100% polyester core and sheath. These ropes are specifically designed with super low elongation for specialty applications such as highlines and applications where professional rope technicians require absolute minimal elongation. These ropes are also engineered to stay rounder and have less sheath slippage than conventional kernmantle polyester ropes.

Key Features: NFPA Certified • 32-carrier construction • 100% polyester construction • Resists flattening under load

### 11.5 mm (7/16")

Weight: 96.0 g/m » MBS: 29.4 kN (6609 lbf) »  
Elongation: 0.9% at 300 lbf | 1.4% at 600 lbf | 1.8% at 1000 lbf »  
Elongation at 10% MBS: 1.4%

46 m (150 ft)	Orange/Black/Green PR1100G046PP	Blue/Black/Green PR110BG046PP	\$141.60
92 m (300 ft)	Orange/Black/Green PR1100G092PP	Blue/Black/Green PR110BG092PP	\$283.40

**COMPLIANT** NFPA 1983 (2012), T C11801, STATIC



### 13 mm (33/64")

Weight: 125.0 g/m » MBS: 43 kN (9667 lbf) »  
Elongation: 0.6% at 300 lbf | 1.0% at 600 lbf | 1.5% at 1000 lbf »  
Elongation at 10% MBS: 1.5%

61 m (200 ft)	Orange/White/Green PR1300G061PP	Blue/White/Green PR130BG061PP	\$222.20
200 m (656 ft)	Orange/White/Green PR1300G200PP	Blue/White/Green PR130BG200PP	\$729.50

**COMPLIANT** NFPA 1983 (2012), T C11801, STATIC



## Polyester Fiber Ropes

PMI polyester ropes offer a unique range of performance and features as compared with nylon. As a fiber, polyester offers lower elongation than nylon, but the stretch characteristics of a rope are also partially determined by the design of the rope. An all-polyester rope with a static construction may be a great choice for use by experienced technicians in applications where particularly low elongation is required, but a very static rope offers little forgiveness, so extra precautions should be taken when using these. Other points to consider when using polyester fiber ropes:

- 1) Polyester retains a high tensile strength even when wet.
- 2) Slightly more resistant than nylon to most acids.
- 3) Slightly less resistant than nylon to alkalis.
- 4) Melting point is about 500° F (260° C).
- 5) Highly abrasion resistant.
- 6) Some users may notice a slicker feel/faster descent on polyester ropes.

All PMI ropes that incorporate polyester in some way have an X pattern on the sheath, while nylon-only models feature the typical "barber pole" design.

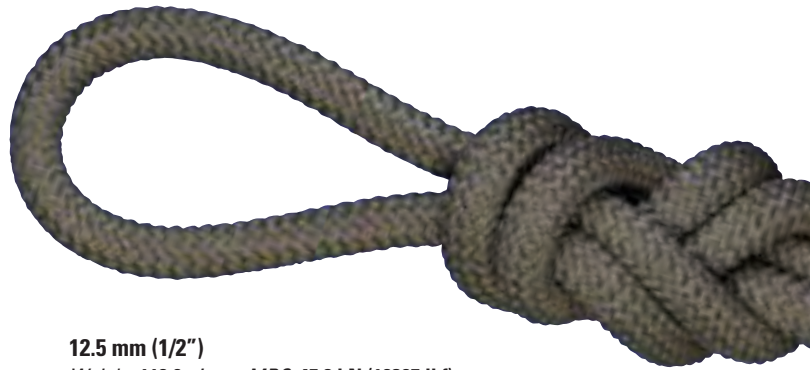


# Low Stretch Rope

## PMI® HeatShield™

This special PMI rope, HeatShield™ is an excellent choice for rope access work for anyone needing rope with superior sheath abrasion and heat resistant properties such as those performing work at bridges, dams, towers or industrial sites. For any high abrasion environment, consider this rope for the job. The sheath is 100% Technora® featuring a high tensile strength, good fatigue resistance, heat resistance, excellent dimensional stability, and chemical resistance.

**Key Features:** Sheath - 100% Technora® • Core - 100% Nylon 6.6 • High modulus of elasticity • Low creep • Low thermal shrinkage • Thermal decomposition threshold 500°C (932°F)



### 11 mm (7/16")

Weight: 84.1 g/m » MBS: 35.6 kN (8002 lbf) »  
Elongation: 3.8% at 300 lbf | 7.2% at 600 lbf | 10.0% at 1000 lbf »  
Elongation at 10% MBS: 8.6%

	Natural Gold	
183 m (600 ft)	HS110TG183A	\$1,279.60
> 183 meter order	HS110TG001A	\$7.25 per meter

Custom orders accepted for lengths greater than 183 meters. Call Customer Service for details.

**COMPLIANT** CI1801, LOW STRETCH

### 12.5 mm (1/2")

Weight: 110.9 g/m » MBS: 45.8 kN (10307 lbf) »  
Elongation: 2.2% at 300 lbf | 5.2% at 600 lbf | 8.6% at 1000 lbf »  
Elongation at 10% MBS: 8.8%

	Natural Gold	
183 m (600 ft)	HS125TG183A	\$1,720.80
> 183 meter order	HS125TG001A	\$9.75 per meter

Custom orders accepted for lengths greater than 183 meters. Call Customer Service for details.

**COMPLIANT** CI1801, LOW STRETCH

## Fibers

### PARA-ARAMIDS

Para-Aramids such as Technora® offer excellent heat resistance as compared with other rope fibers: roughly twice that of nylon or polyester! However, do not be misled into believing that ropes made of these fibers will not "burn through" or fail. Although Para-Aramids like Kevlar® and Technora® do not melt, they do decompose. While the official decomposition temperature seems high (932° F or 500° C), the high temperature working limit is only 350° F (176.7° C) - just about 100 degrees higher than nylon or polyester.

You should also be aware of limitations in these fibers when compressive forces from rappel devices are combined with axial forces and shock loads such as might occur when escaping a hazardous environment. Be sure your choice of rope and rappel device system is well tested before putting it into actual use.

### UHMWPE

Ultra high molecular weight polyethylene - although offering incredible strength, this fiber has dangerously low melting temperature and low coefficient of friction, and therefore is not a good choice for an escape rope. Fibers like Dyneema® and Spectra® melt at 302° F (150° C) and offer a high temperature working limit of only 150° F (65.6° C).

### NYLON AND POLYESTER

Nylon and polyester are the tried-and-true workhorses of the life safety world and a variety of Escape ropes are made with one, or some combination of, these two fibers. On a practical level, these are still a very good all-around choice for an escape rope in terms of overall safety and cost. Nylon 6,6 and polyester fibers melt at 489-500° F (254-260° C) and offer a high temperature working limit of around 250-275° F (121-135° C).



Photo Mike Melton

# Low Stretch Rope

Webbing and Cordage

Personal Gear

Hardware



Photo Trask Bradbury

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

## PMI® Access Pro **MADE IN THE USA**

A PMI rope revolution, the Access Pro is engineered for performance and flexibility. With a polyester sheath and nylon core, this rope is a perfect choice for Rope Access and Fall Protection. In fact, we like Access Pro so much that we've chosen it to feature in our PMI® Rescue Solutions. For more information—see the Solutions and Kits section (pages 84-91).

**Key Features:** 32-carrier construction • Polyester sheath • Nylon core • A superior hand for Fall Arrest and Rope Access applications

**11 mm (7/16")**

Weight: 84.0 g/m » MBS: 27.4 kN (6167 lbf) »

Elongation at 10% MBS: 7.2% »

Elongation: 5.8% at 300 lbf | 9.3% at 600 lbf | 12.4% at 1000 lbf



	Red/Black	
30 m (100 ft)	IR110RB030P	\$98.50
46 m (150 ft)	IR110RB046P	\$147.70
61 m (200 ft)	IR110RB061P	\$197.00
92 m (300 ft)	IR110RB092P	\$295.60
183 m (600 ft)	IR110RB183P	\$591.20

**COMPLIANT** NFPA 1983 (2012), T CE CI1801, LOW STRETCH ANSI Z359.1, 2007 EN 1891-A

## Global Pro by PMI®

Made to exacting PMI standards, these new ropes satisfy the need for a softer hand and a bit more stretch than PMI's current low stretch ropes. Popular in rope access work around the globe, this style of rope meets all applicable standards including CI and CE. PMI is proud to introduce these new global ropes for work and rescue applications.

**Key Features:** Nylon • CI, CE and EN Certified • Low stretch with a soft hand • Designed for use with bobbin/squeeze type descenders • Great choice for Rope Access and Fall Arrest applications



**10.5 mm (13/32")**

Weight: 65 g/m » MBS: 27 kN (6069 lbf) »

Elongation (EN 1891): 3.0% » Length: 200 m (656 ft)

Green	MR105GR200	\$485.00
White	MR105WH200	\$423.00

**COMPLIANT** EN 1891-A CE CI1801, LOW STRETCH



**11 mm (7/16")**

Weight: 73 g/m » MBS: 30 kN (6740 lbf) »

Elongation (EN 1891): 2.8% » Length: 200 m (656 ft)

Green	MR110GR200	\$494.00
White	MR110WH200	\$451.00

**COMPLIANT** EN 1891-A CE CI1801, LOW STRETCH



# Personal Escape Rope

PMI® PER 

Firefighters and rescuers who need to “bail out” of deadly situations rely on PER. Compact and lightweight, this line is more than strong enough for the job. It also features an energy-absorbing core to reduce the inevitable shock load during first loading.

**Key Feature:** Energy absorbing core

**8 mm (5/16”)**

Weight: 39.0 g/m » MBS: 14.5 kN (3269 lbf)



	Yellow	
61 m (200 ft)	RR075YL061	\$177.00
92 m (300 ft)	RR075YL092	\$265.60

**COMPLIANT** NFPA 1983 (2012), E



### NFPA Use Categories

Equipment that is certified to meet NFPA 1983 (2012) will also bear a letter designator: T (Technical), G (General), or E (Escape). Look for the NFPA E rating on PMI Personal Escape Ropes and hardware. E = Escape: Products rated with an E are considered suitable for escape, and should never be used more than once in an actual emergency situation.

Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

# Water Rope

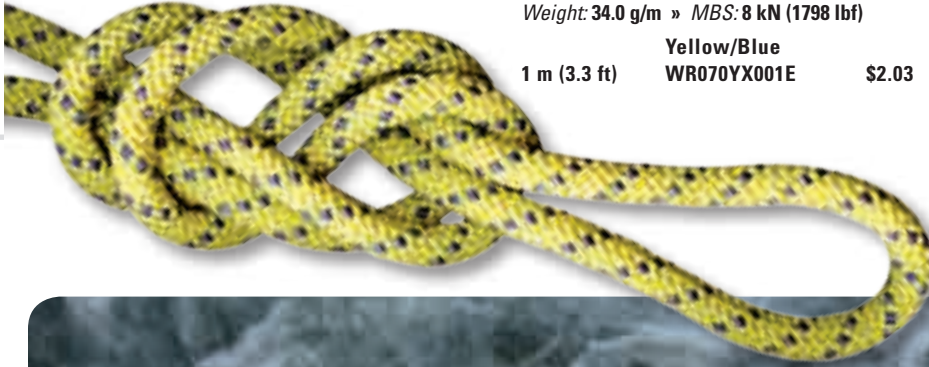
## PMI® Water Rescue Rope

Designed at the request of our customers, this rope is intended for use as a bagged throw rope for boat or shore based water rescue. The continuous stranded polypropylene core provides flotation to the wear-resistant braided nylon sheath. This rope has a higher breaking strength than economy polypropylene water rescue rope, and is much easier to grip.

**Key Features:** Continuous polypropylene core • Lightweight • Nylon sheath

Webbing and Cordage

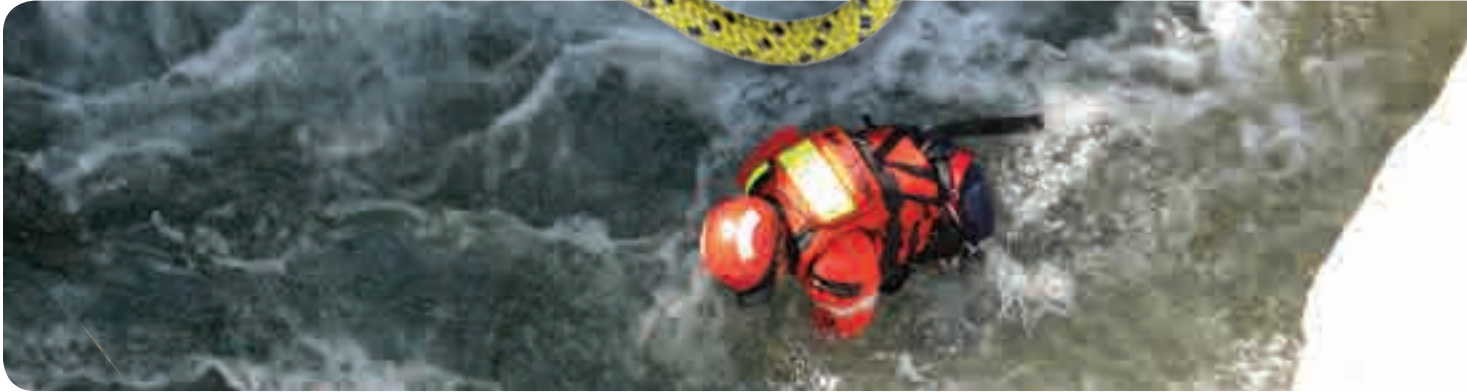
Personal Gear



**7 mm (9/32")**  
 Weight: 34.0 g/m » MBS: 8 kN (1798 lbf)  
 1 m (3.3 ft) Yellow/Blue  
 WR070YX001E \$2.03

**10 mm (25/64")**  
 Weight: 62.0 g/m » MBS: 16 kN (3597 lbf)  
 Yellow/Blue  
 23 m (75 ft) WR100YX023E \$62.33  
 30 m (100 ft) WR100YX030E \$79.60  
 46 m (150 ft) WR100YX046E \$119.50  
 61 m (200 ft) WR100YX061E \$159.30  
 92 m (300 ft) WR100YX092E \$239.10  
 183 m (600 ft) WR100YX183E \$478.30  
 200 m (656 ft) WR100YX200E \$523.00

Hardware



Solutions and Kits

## PMI® Retro-Reflective Water Rescue Rope

This famous water rescue rope comes in Yellow/Blue/Retroreflective with reflection capability for nighttime use.

**Key Features:** Continuous polypropylene core • Lightweight • Nylon sheath • Reflective

**10 mm (25/64")**  
 Weight: 62.0 g/m » MBS: 16 kN (3597 lbf)  
 Yellow/Blue/Retro  
 183 m (600 ft) WR100YX183EV \$744.80  
 200 m (656 ft) WR100YX200EV \$841.40



Patient Care

Logistics and Support Gear

Training and Education



## Economy Throw Rope

The perfect throwline rope in water rescue operations where a floating, economical, and lightweight line is needed. With a specific gravity less than 1, polypropylene will float in any water conditions. While great for personal throwline applications, it is not designed for use as rigging gear for technical rope rescue.

**Key Features:** Solid Braid • 100% polypropylene • Economical • Lightweight

**8 mm (5/16")**  
 Weight: 31.0 g/m » MBS: 5 kN (1124 lbf)

Yellow  
 PR63002 \$0.75 m

**10 mm (25/64")**  
 Weight: 41.0 g/m » MBS: 10 kN (2248 lbf)

Yellow  
 PR63001 \$1.10 m



PMI manufactures a vast array of ropes in our U.S. factory, including a full line of dynamic ropes ranging in size from 8.1 mm to 11 mm. Two of our popular ropes are listed below. Custom colors, including Tactical, are available for large quantity orders. Contact your PMI representative for details. Please visit our website at [www.pmirope.com](http://www.pmirope.com) to see all our ropes.

**UltraDry™**

In our quest to engineer the ultimate dry rope, we went well beyond the sheath and deep into the core. PMI UltraDry™ ropes have the additional safety and performance elements of a hydrophobic core; aka water resistant. PMI UltraDry™ ropes float for an extended amount of time. Every filament of core yarn undergoes a process to create an actual shield of polymerized molecules within the yarn. This shield is then secured in place... resulting in a durable, resistant, protected yarn which is made into PMI UltraDry™ ropes.

**Middle Mark**

Every PMI Dynamic™ rope has a middle mark so you can find the middle of the rope with ease. If the black mark wears, you can easily reapply with the PMI® Tec marker (page 19).

**ID Tape**

Inside every PMI Life Safety rope is a marker tape that tells the story of that rope. From it, you can learn where, when, and by whom the rope was made. The marker tape runs the entire length of your PMI rope, repeating its key information every few feet.

**Rope Length**

When you buy a given length of PMI rope, we want to be sure you get what you pay for so we always add at least 2% more than the stated length on the label. Keep in mind, though... the fibers that rope is made of will shrink and stretch with weather changes and use. That's why your rope might be longer on one day than the next!



Photo Karl Kelley

**10.6 Cirque**



The CIRQUE has it all. Excellent fall rating, minimal weight, and a true-to-size diameter that won't jam your gear.

**10.6 mm (27/64")**

Weight: 71.0 g/m » Falls: 12 » Impact Force: 8.1 kN » Static Elongation: 7.7% » Dynamic Elongation: 34%

		<b>Mystic Canyon</b>	
60 m (197 ft)	Standard	DR106AZ060S	\$216.00
70 m (230 ft)	Standard	DR106AZ070S	\$252.00

**COMPLIANT** UIAA 101, EN 892



**11 Latitude**



Need a beefy rope that lasts? PMI® 11 mm LATITUDE keeps you climbing even after the other guys have gone home.

**11 mm (7/16")**

Weight: 81.0 g/m » Falls: 16 » Impact Force: 8.5 kN » Static Elongation: 7.2% » Dynamic Elongation: 34%

		<b>Raven</b>	
60 m (197 ft)	Standard	DR110FD060S	\$234.00
70 m (230 ft)	Standard	DR110FD070S	\$273.00

**COMPLIANT** UIAA 101, EN 892



# Terminations

## PMI® Swaged Terminations **MADE IN THE USA**

High strength, no-knot terminations for PMI® Hudson Classic Pro ropes. Swaged terminations are formed using aluminum sleeves and a stainless steel thimble. PMI swaged rope terminations are always stronger than any knotted termination. Swages are applied to the rope using a precision steel die and the resulting termination is nearly as strong as the rope itself. PMI® Hudson Classic Pro (both EZ and Max,) and also PMI® Hudson Classic Pro with Unicore® ropes may be swaged.

PMI can swage either one or two end terminations on the ropes listed below:

- 11 mm - PMI® Hudson Classic Pro EZ, Max or Sport
- 12.5 mm - PMI® Hudson Classic Pro EZ, Max or Sport, PMI® Hudson Classic Pro with Unicore®, PMI® Retro

**Key Features:** Streamlined permanent termination • No knots • Nearly as strong as the rope • Stronger than knots • Two separate but equal blocks of stitching provide greater safety

### 11 mm

MBS: 26 kN (5845 lbf) - PMI® Hudson Classic Pro EZ

<b>Thimble</b>	<b>HD26056</b>	<b>\$4.75</b>
<b>One End</b>	<b>KT36084</b>	<b>\$32.00</b>
<b>Two Ends</b>	<b>KT36085</b>	<b>\$60.00</b>

**COMPLIANT** NFPA 1983 (2012), T ANSI Z359.1 (2007) - PMI® HUDSON CLASSIC PRO EZ

### 12.5 mm

MBS: 39 kN (8768 lbf) - PMI® Hudson Classic Pro EZ  
 MBS: 36.7 kN (8250 lbf) - PMI® Hudson Classic Pro with Unicore®

<b>Thimble</b>	<b>HD26014</b>	<b>\$6.00</b>
<b>One End</b>	<b>KT36080</b>	<b>\$34.00</b>
<b>Two Ends</b>	<b>KT36083</b>	<b>\$64.00</b>

**COMPLIANT** NFPA 1983 (2012), G ANSI Z359.1 (2007) - PMI® HUDSON CLASSIC PRO EZ, PMI® HUDSON CLASSIC PRO WITH UNICORE®



## Sewn Eyes **MADE IN THE USA**

PMI uses precision stitching to create a permanent, sewn termination that is stronger than any knotted termination and nearly as strong as the rope itself. Heat shrink tubing protects the stitching and the label from abrasion. PMI can sew either one or two end terminations on the ropes listed below:

- 9 mm - PMI® Hudson Classic Pro EZ or Max
- 10 mm - PMI® Hudson Classic Pro EZ, Max or Sport
- 11 mm - PMI® Hudson Classic Pro EZ, Max or Sport, PMI® Isostatic, PMI® Access Pro, PMI® Extreme Pro™
- 12.5 mm - PMI® Hudson Classic Pro EZ, Max or Sport, PMI® Retro
- 13 mm - PMI® Isostatic

**Key Features:** Streamlined permanent termination • No knots • Nearly as strong as the rope • Stronger than knots • Two separate but equal blocks of stitching provide greater safety

### 9 mm

MBS: 14 kN (3147 lbf) - PMI® Hudson Classic Pro EZ

<b>One End</b>	<b>KT36088</b>	<b>\$28.50</b>
<b>Two Ends</b>	<b>KT36089</b>	<b>\$57.00</b>

### 10 mm

MBS: 22 kN (4946 lbf) - PMI® Hudson Classic Pro EZ

<b>One End</b>	<b>KT36086</b>	<b>\$28.50</b>
<b>Two Ends</b>	<b>KT36087</b>	<b>\$57.00</b>

**COMPLIANT** NFPA 1983 (2012), T ANSI Z359.1 (2007) - PMI® HUDSON CLASSIC PRO EZ



Note: 9 mm comes with stainless steel thimbles.  
 10 mm - 13 mm come with nylon thimbles.

### 11 mm

MBS: 24 kN (5395 lbf) - PMI® Hudson Classic Pro EZ  
 MBS: 37.6 kN (8452 lbf) - PMI® Extreme Pro™

<b>One End</b>	<b>KT36084</b>	<b>\$28.50</b>
<b>Two Ends</b>	<b>KT36085</b>	<b>\$57.00</b>

**COMPLIANT** NFPA 1983 (2012), T ANSI Z359.1 (2007) - PMI® HUDSON CLASSIC PRO EZ, PMI® EXTREME PRO

### 12.5 mm - 13 mm

MBS: 36 kN (8093 lbf) - PMI® Hudson Classic Pro EZ  
 MBS: 40.7 kN (9150 lbf) - PMI® Hudson Classic Pro with Unicore®

<b>One End</b>	<b>KT36080</b>	<b>\$28.50</b>
<b>Two Ends</b>	<b>KT36083</b>	<b>\$57.00</b>

**COMPLIANT** NFPA 1983 (2012), G ANSI Z359.1 (2007) - PMI® HUDSON CLASSIC PRO EZ, PMI® HUDSON CLASSIC PRO WITH UNICORE®

We wouldn't be a life safety rope and equipment company if we didn't have the right products to take care of your hard working gear. Your gear gets as dirty as the job and deserves special attention and its own set of cleaning and protective gear. The Rope Tracker and the Bokat Rope Washer are just a couple of key products that are perfect additions to your gear cache.

Protecting your gear while in use comes naturally to most of us, but care and maintenance extends to storage and carrying as well. Use PMI® Rope Bags and Packs, or the PMI® Riggers Bag to store and carry all your rope and gear with ease.

## Rope Care

There are a few things that you want to keep in mind when handling your rope.

- 1) Use edge protection when it's necessary to run the rope over rough surfaces or sharp edges. Also don't run moving ropes over stationary ropes (a moving rope can cut right through a stationary rope).
- 2) Avoid overloading your rope, so know your rope strength and be mindful of it when using it. Avoid stepping on your rope because if the floor is rough or dirty it can rub dirt into the rope or be abrasive.
- 3) Ultraviolet light can cause some damage to ropes as well. All PMI ropes use UV stabilized yarns, but it's a good idea to avoid exposing them to UV light for long periods of time.
- 4) Be sure that your rope is compatible with the gear you're using. Check your pulleys, descenders, ascenders, and prusik cords for the rope sizes and diameters that they're made for.
- 5) Avoid chemicals at all costs because even the fumes can damage the rope and there won't necessarily be any visible signs of damage.
- 6) Finally, avoid heat when using or storing your rope as extreme heat can melt a rope and lessen the strength. Be aware of the ambient conditions your rope will be used in or stored in; for example, using a rope in fire rescue or storing a rope in the trunk of a car during the summer. Knowing the temperatures that your rope is built to withstand is essential to caring for your rope.



Photo Tim Banfield



## Bokat Rope Washer by PMI®

A built in brush makes this the best cleaning rope washer we've ever used. Just hook it up to your hose, turn on the water, and pull the rope through the washer. The water loosens dirt and the brush scrubs it off.

**Key Features:** Easy to use • Use with PMI® Rope Soap

Height: 4.00" (10.2 cm) » Width: 2.50" (6.4 cm) »

Length: 12.00" (30.5 cm) » Weight: 1.19 lbs (425 g)

RC48002

\$42.00



One of a kind scrubbing bristles provide just enough cleaning power to get the dirtiest rope ready for action.

## PMI® Laundry Bag

Use this protective black polyester mesh bag when washing rope, webbing, and other soft goods. Use several bags to keep like-items sorted, keep your gear together and prevent it from tangling during washing. Holds 250 ft of 11 mm Classic Static.

**Key Features:** Great for keeping your gear sorted as well as for washing • Works with front or top loading machines

Width: 23.00" (58.4 cm) » Length: 30.50" (77.5 cm) » Weight: 6.6 oz (187 g)

RB44046

\$23.50

## PMI® Rope Soap

Giving you a clean rope that will last. PMI's Rope Soap gently removes dirt, oil, grease, soot, smoke, and other grime.

**Key Features:** 1 bottle does up to 12 loads • 6 to 8 oz with 15 gallons of water • Biodegradable • Low PH

Weight: 2.06 lbs (934 g)

RC48031

\$19.95



# Rope Care

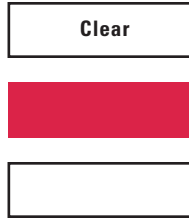
## Whip End Dip

Seal your rope ends to prevent fraying and add a color coding option to your gear with this water based liquid vinyl compound sealant.

**Key Features:** Perfect for color coding multiple ropes • Available in three colors • Non toxic • Easy to apply • 1 bottle = 64 ends (3 coats each)

**Weight: 5.0 oz (143 g)**

<b>Clear</b>	<b>Red</b>	<b>White</b>	
<b>RC48011</b>	<b>RC48012</b>	<b>RC48013</b>	<b>\$9.75</b>



## Cordage Meter

If you regularly cut rope off a spool, a cordage meter is an indispensable tool. While you pull the rope through the meter the toothed measuring wheel and stainless steel pressure shoe assures uninterrupted NO SLIP contact with the cordage. The meter should be firmly mounted for optimum accuracy using the optional brackets available. The extended bracket allows the meter to be pivoted out of the way when not in use. Conforms to Weights and Measures specifications in U.S.A. and Canada.

**Key Features:** Available in Feet or Metric measurements • Mechanical/Analog counter adds or subtracts • Resets to ZERO easily • Measures ropes and cordage from 1/4" (6 mm) to 3/4" (20 mm) diameter

**Height: 1.75" (4.4 cm) » Width: 8.25" (21.0 cm) » Length: 10.50" (26.7 cm) » Weight: 2.6 lbs (1.180 kg)**

<b>Cordage Meter</b>			
<b>Units - Feet</b>	<b>RC48003</b>	<b>\$289.00</b>	
<b>Units - Metric</b>	<b>RC48004</b>	<b>\$289.00</b>	

<b>Accessories</b>			
<b>Standard Bracket</b>	<b>RC48006</b>	<b>\$9.00</b>	
<b>Extended Bracket</b>	<b>RC48005</b>	<b>\$25.00</b>	

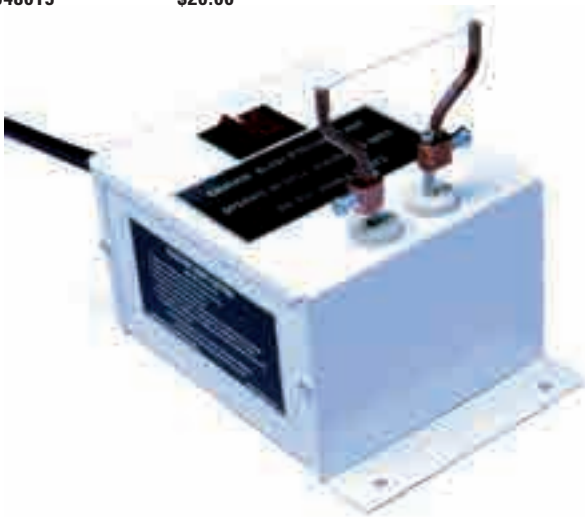
## Electric Hot Knife

Fusing rope ends helps protect your rope and prevent unraveling after cutting the rope.

**Key Features:** Table top size • Operates on 110 volts AC • Red 'on' light • Replacement blades available • Heats up to 1200° F (649° C)

**Weight: 2.44 lbs (1.111 kg)**

<b>RC48014</b>	<b>\$134.00</b>
<b>Replacement Blade</b>	
<b>RC48015</b>	<b>\$20.00</b>



## Small Cordage Meter

When you need to cut accessory cord from a spool, this meter gets the job done. Conforms to Weights and Measures specifications in the U. S. A. and Canada. This unit accommodates cord from 1/16" to 1/2" (1.5 mm to 12.7 mm).

**Key Features:** Three guide tubes and a pressure roller provides accurate measurements • Measures either natural or synthetic fiber cords • Measures accessory cord with diameters of 1/16" to 1/2"

**Height: 1.75" (4.4 cm) » Width: 8.25" (21.0 cm) » Length: 10.50" (26.7 cm) » Weight: 2.6 lbs (1.180 kg)**

<b>Small Cordage Meter</b>			
<b>Units - Feet</b>	<b>RC48040</b>	<b>\$314.00</b>	
<b>Units - Metric</b>	<b>RC48041</b>	<b>\$314.00</b>	



## PMI® Supermantle

Ballistic nylon exterior with a durable interior layer of heavy canvas wrap completely around your stationary ropes to provide maximum protection from sharp edges and abrasive surfaces. To protect moving ropes, see edge rollers

**Key Features:** Durable nylon • New easy open flap • Reflective strip • Tie off tab

### 18 inch (45.7 cm)

Length: 18.00" (45.7 cm) » Weight: 4.0 oz (121 g)

<b>Black</b>	<b>Yellow</b>	
RC48020	RC48021	\$22.75

### 24 inch (61.0 cm)

Weight: 6.0 oz (162 g)

<b>Black</b>	<b>Red</b>	
RC48018	RC48022	\$25.00

### 36 inch (91.4 cm)

Weight: 8.0 oz (237 g)

<b>Black</b>	<b>Red</b>	
RC48019	RC48023	\$35.00



## Spiroll®



Effective, economical protection for your stationary ropes, Spiroll® Rope Protectors employ a unique patent pending technology. Rugged polyurethane material wraps snugly around a Single rope several times to secure itself anywhere it is placed without being tied.

**Key Features:** Rugged • Single rope use • For ropes greater than 9.5 mm • Perfect for anchors • Easily moveable

Width: 4.00" (10.2 cm) » Length: 24.00" (61.0 cm) » Weight: 2.2 oz (57 g)

<b>Orange</b>	<b>Black</b>	
RC48032	RC48033	\$12.00

**BERRY COMPLIANT**



## PMI® Rope Pad

When a pad is all you need, this heavy duty canvas adapts to any surface to protect one or more ropes.

**Key Features:** Heavy duty canvas • Small pad pre-rigged with cord • Medium and Large pads have large grommets to accept your tie-off cord

### Small

Width: 12.00" (30.5 cm) » Length: 33.00" (83.8 cm)  
» Weight: 13.4 oz (380 g)

<b>Green</b>	
RC48010	\$26.50

### Medium

Width: 34.00" (86.4 cm) » Length: 30.00" (76.2 cm)  
» Weight: 1.56 lbs (703 g)

<b>Natural</b>	
RC48026	\$29.00

### Large

Width: 34.00" (86.4 cm) » Length: 60.00" (152.4 cm)  
» Weight: 2.94 lbs (1.340 kg)

<b>Natural</b>	
RC48027	\$40.00



## Rope Care

### SMC Flex **MADE IN THE USA**

SMC originally designed the FLEX for the demanding Technical Fire Rescue market as a canvas replacement. Soon after using the FLEX, we realized it is much more than the ultimate in configurable rope management and protection. In fact, the FLEX is FLEXible in its uses - the only limitation is your imagination. Use a stand-alone FLEX or connect multiple FLEX pads with the FLEX CLIPS to help solve everyday problems.

#### Flex Pad

Height: 0.75" (1.9 cm) » Width: 8.00" (20.3 cm) »  
Length: 16.00" (40.6 cm) » Weight: 4 oz (113 g)

SM148200 \$16.85

#### Flex Kit (2 pads, Clips)

SM148202 \$35.70

#### Flex Clip Kit

SM148210 \$6.20



Quality Gear for Life



Rope and tree not included.



Rope and tree not included.

### SMC Rope Tracker **MADE IN THE USA**

The SMC Rope Tracker is engineered to secure, capture, protect, and manage multiple ropes when negotiating difficult edge transitions. The SMC Rope Tracker is manufactured from a high quality durable abrasion resistant thermoplastic blend to minimize weight and maximize strength.

**Key Features:** A channel and rib design gives users the ability to manage ropes up to 16 mm • Body will flex to 90° edge angles

Height: 1.00" (2.5 cm) » Width: 3.40" (8.6 cm) » Length: 20.10" (51.1 cm)  
» Weight: 14.5 oz (413 g)

#### Orange

SM148100 \$66.10







Quality Gear for Life



## SMC Edge Roller

Reduce friction when going over the edge with the versatile RA/SMC Edge Roller. Two Edge Rollers connected by quick links will lay over a right angle such as a rock wall or edge of a building. This efficient 4" wide single edge roller ships with screw links for connecting two or more rollers together.

**Key Features:** 5/8" steel axle • Neoprene on bottom • Two 3/16" Quick Links included • 4" wide aluminum roller

### 1 Roller

Height: 4.25" (10.8 cm) »  
Width: 6.90" (17.5 cm) »  
Length: 9.90" (25.1 cm) »  
Weight: 3.13 lbs (1.410 kg) »  
Sheave: 2.50" » Bearing: Oilite

### Red

SM148500 \$186.65

Each roller is sold individually.

## SMC Roof Roller

Specialized edge protection designed for right angle structural edges. The outer roller "reaches" out over the edge to protect your ropes and reduce friction for a long haul.

**Key Features:** Efficient rollers • Two 4" wide aluminum rollers • Holes for permanent mounting • Neoprene pad on bottom • 5/8" steel axle

### 1 Roller

Height: 5.90" (15.0 cm) » Width: 9.90" (25.1 cm) »  
Length: 10.00" (25.4 cm) » Weight: 4.63 lbs (2.09 kg) »  
Sheave: 2.50" » Bearing: Oilite

### Yellow

SM149000 \$283.30



Notch will fit over ladder rungs.  
Carabiners not included.

## PMI® Edge Roller System

Three linked units with hard anodized aluminum side plates and two roller bars each. This lightweight and compact roller can be used linked together with the furnished screw links at sharp edges, or separated for long gradual breakovers.

**Key Features:** Efficient rollers • Two 4" wide aluminum rollers • Holes for permanent mounting • 5/8" steel axle

Height: 3.00" (7.6 cm) » Width: 6.50" (16.5 cm) »  
Length: 22.00" (55.9 cm) » Weight: 2.75 lbs (1.250 kg)

HD26086 \$225.00



# Webbing and Cordage

Accessory Cord to sewn Prusiks, PMI has all the bases covered. Whether you're looking for spools of webbing and cord in bulk, or for sewn straps and lanyards, you'll find a wide assortment to choose from at PMI. And, if you don't find something you're looking for, just ask. We will be happy to try to help.

## Accessory Cord



PMI® Accessory Cords are made of durable kernmantle construction to UIAA standards and are great for a wide variety of uses. The smaller PMI® Accessory Cords can be used for many applications such as boot laces, lanyards, tent/shelter tie-down cords, equipment fixes and much more. Larger diameters of PMI® Accessory Cords may be used in applications including building climbing anchors, Prusik cords and a wide variety of other uses. These cords are made with the ideal combination of strength, flexibility, and durability.

PMI® Accessory Cord comes in black and various multi-colors. Multi-color cords vary in color and sometimes contain more of one color such as red. Ask your PMI CSR about the current color schemes.

**Key Features:** 100% nylon • Available from 2 mm to 9 mm • Discounted price for spooled lengths

2 mm (5/64") 100 m Spool	Multi Color CC020ZA100S				\$38.00
3 mm (1/8") 100 m Spool	Black CC030MB100S	Multi Color A CC030MC100S	Multi Color B CC030ME100S		\$46.20
4 mm (5/32") 100 m Spool	Black CC0400B100S	Multi Color A CC0400C100S	Multi Color B CC0400E100S		\$74.00
5 mm (13/64") 50 m Spool	Black	Multi Color A	Multi Color B	Multi Color C CC055QE050S	\$49.00
100 m Spool	CC055QB100S	CC055QC100S	CC055QD100S	CC055QE100S	\$98.00
6 mm (15/64") 50 m Spool	Black	Multi Color A CC060SC050S	Multi Color B		\$64.00
100 m Spool	CC060SB100S	CC060SC100S	CC060SD100S		\$128.00
7 mm (9/32") 50 m Spool	Black CC070UB050S	Multi Color A CC070UC050S	Multi Color B CC070UE050S		\$79.00
100 m Spool	CC070UB100S	CC070UC100S	CC070UE100S		\$158.00
8 mm (5/16") 50 m Spool	Black CC080WB050S	Multi Color A CC080WC050S			\$99.00
100 m Spool	CC080WB100S	CC080WC100S			\$198.00
9 mm (23/64") 50 m Spool	Black	Multi Color A CC090YC050S			\$128.50
100 m Spool	CC090YB100S	CC090YC100S			\$257.00

COMPLIANT 4 mm - 8 mm UIAA 102

The MBS figures below apply to all cords shown on pages 24-26 (not including Sewn Prusik Cord Loops, Tuff Cord, and Utility Cord).

DIAMETER	MBS
2 mm - 2.1 g/m	0.9 kN (202 lbf)
3 mm - 6.2 g/m	2.7 kN (607 lbf)
4 mm - 11.7 g/m	3.5 kN (787 lbf)
5 mm - 17.8 g/m	5.4 kN (1214 lbf)
6 mm - 25.8 g/m	7.2 kN (1619 lbf)
7 mm - 33.2 g/m	11.9 kN (2675 lbf)
8 mm - 42 g/m	14.3 kN (3214 lbf)
9 mm - 50.4 g/m	14.8 kN (3327 lbf)

## Cordelette



PMI®'s 7 mm nylon accessory cord is pre-cut to the standard 6.4 m (21 ft) cordelette length for convenience. This nylon cordelette offers greater shock absorbing capability and knot security than those made with aramid, HMPE, and other ultra-high modulus fibers.

**Key Features:** 100% nylon • 7 mm • 6.4 meters • Perfect for creating anchors • UIAA 102

Weight: 29 g/m » MBS: 10.7 kN (2405 lbf)

6.4 m	Multi Color CC070UC006S	\$14.75
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COMPLIANT UIAA 102



**New!** PMI® Two-Eyed Cyclone

These prusiks feature eye-to-eye construction in a 50% aramid, 50% polyester material, for heat resistance and durability. Commonly used by arborists for footlock and double rope techniques, eye to eye split tail prusiks may also be used to create a convenient, versatile self-locking hitch for other applications as well. The thermally resistant material of the Cyclone helps reduce glazing due to heat buildup, thereby increasing its usable life.

**10 mm (25/64")**

MBS: 22 kN (5000 lbf)

76 cm (30")	SG51280	\$21.00
90 cm (36")	SG51281	\$25.00

**COMPLIANT** CE EN 354



Sewn Prusik Cord Loops

**MADE IN THE USA**

PMI is proud to offer the latest innovation in accessory cords. Precision sewn loops form a sleek, low profile connection that is stronger than a knot. Clear tubing protects the stitches yet allows for easy inspection.

**Key Features:** Available in 6 mm, 7 mm, and 8 mm • 5'8" length perfect for creating purcell prusiks • Used in the PMI® Tandem Prusik Belay Kit (page 90) • Cord also slides under the clear tubing to allow length adjustment



**6 mm (15/64")**

MBS: 11 kN (2473 lbf)

	<b>Multi</b>	
11"	KT36094	\$9.50
20"	KT36095	\$10.25
44"	KT36096	\$11.50
5'8"	KT36097	\$13.00

**7 mm (9/32")**

MBS: 15 kN (3372 lbf)

	<b>Yellow</b>	<b>Blue</b>	
19"	KT36137		\$10.50
26"		KT36138	\$11.25
34"	KT36092	KT36100	\$12.00
5'8"	KT36093	KT36101	\$14.95

**8 mm (5/16")**

MBS: 20 kN (4496 lbf)

	<b>Green</b>	<b>Red</b>	
17"	KT36090	KT36098	\$10.50
23"	KT36091	KT36099	\$11.00

Prusik Cord

**MADE IN THE USA**

PMI's sturdy 100% nylon prusik cord in standard colors to help keep your gear organized.

**Key Features:** 100% nylon • UIAA 102 Certified



<b>7 mm (9/32")</b>	<b>Yellow/Red</b>	<b>Blue/Red</b>	
50 m Spool	CC070UJ050S	CC070UK050S	\$79.00
100 m Spool	CC070UJ100S	CC070UK100S	\$158.00
<b>8 mm (5/16")</b>	<b>Green/Blue</b>	<b>Red/Yellow</b>	
50 m Spool	CC080WF050S	CC080WG050S	\$99.00
100 m Spool	CC080WF100S	CC080WG100S	\$198.00

**COMPLIANT** UIAA 102

# Cordage

## Tuff Cord

A great choice for extreme rigging applications. This durable cord has a lower stretch core and tighter sheath than our other accessory cords and is especially good for mountain guides, lightweight expeditions, and in pre-rigged haul systems.

**Key Features:** 100% nylon • Higher abrasion resistance than regular accessory cords • The only cord of its kind on the market • Tuff cord is used in the JR Haul System (page 107)

7 mm (9/32")

MBS: 11 kN (2473 lbf) » Weight: 38 g/m

	<b>Orange/Blue</b>	
Per Meter	SR0700X001E	\$2.37
100 m Spool	SR0700X100E	\$237.00

**COMPLIANT** CI1801, STATIC



Improved tighter sheath to reduce sheath slippage.

## Bagged Cord **MADE IN THE USA**

PMI's sturdy 100% nylon cord pre-cut and bagged for display.

15.8 m (52 ft)		<b>Red</b>	
6 mm (15/64")	22 g/m	CC060SF016S	\$20.00

**COMPLIANT** 4 mm - 8 mm UIAA 102



## PMI® Utility Cord **MADE IN THE USA**

PMI's strong utility cord can be used for various tasks. Take it along when you go outdoors for tent tie-down, clotheslines, securing various items to other items, and many other needs.

**Key Features:** Polyester sheath/nylon core • Pre-cut • Five colors  
Weight: 3.4 oz (98 g) » Length: 15 m (50 ft) » MBS: 1.8 kN (405 lbf)

3 mm (1/8")

<b>Blue/Green</b>	CC030BG015P	\$5.40
<b>Black</b>	CC030BK015P	\$5.40
<b>Green</b>	CC030GR015P	\$5.40
<b>Orange</b>	CC030OR015P	\$5.40
<b>White</b>	CC030WH015P	\$4.95



## Tubular Webbing

PMI's webbing is specially built to commercial versions of military specifications. For all rigging uses: slings, anchorages, even hasty seats. Spools may contain up to two splices.

**Key Features:** For all rigging uses • Available in 1" and 2" • 9 colors available in 1" • 2" available in red

*Weight: 36 g/yd » MBS: 18 kN (4000 lbf)*

1"	Red	Blue	Hot Orange	Yellow	Black	
Per Yard	WB59001	WB59003	WB59005	WB59007	WB59009	\$1.32
100 yd	WB59002	WB59004	WB59006	WB59008	WB59010	\$126.00
1"	OD Green	Dark Green	Purple	Fluorescent Green		
Per Yard	WB59034	WB59025	WB59032	WB59011	\$1.14	
100 yd	WB59033	WB59021	WB59031	WB59012	\$108.50	

*Weight: 75 g/yd » MBS: 36 kN (8000 lbf)*

2"	Red	
Per Yard	WB59013	\$3.09
50 yd	WB59014	\$147.00

Use different colors for color coding all your anchorages.



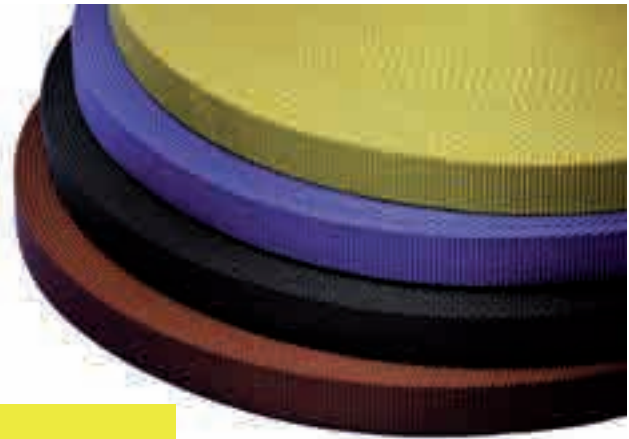
## 1" Flat Webbing

For your really tough webbing applications, flat webbing is thicker and stronger than 2" seatbelt webbing. Applications for flat webbing are endless, from sewn products to rigging. Spools may contain splices.

**Key Features:** Create slings, anchorages, even hasty seats • Available in 1"

*Weight: 36 g/yd » MBS: 27 kN (6000 lbf)*

1"	Black	Blue	
Per Yard	WB59038	WB59036	\$1.85
50 yd	WB59037	WB59035	\$88.00
1"	Red	Yellow	
Per Yard	WB59040	WB59046	\$1.85
50 yd	WB59039	WB59045	\$88.00



## Nomex® Webbing

This lightweight tubular webbing of DuPont™ Nomex® is excellent for use as heat and flashover fire protection. Same webbing as found on many fire service breathing apparatus straps.

**Key Features:** Not for live loads • Low MBS • 1" wide

*Weight: 14 g/yd » MBS: 1 kN (250 lbf)*

1"	Black	
Per Yard	WB59027	\$7.00



# Sewn Webbing

## Sewn Webbing Loops



Pre-sewn webbing loops prepare you for any rigging situation. Made from 1" tubular webbing, these sewn loops are strong and ready for use.

**Key Features:** For all rigging uses • Standard colors for rigging • Made with 1" tubular webbing

**MBS: 32 kN (7194 lbf)**

### 2.5 ft loop

Width: 1.00" (2.5 cm) »  
Length: 30.00" (76.2 cm) »  
Weight: 2 oz (64 g)

**Green**

SG51141 \$16.50

### 6 ft loop

Width: 1.00" (2.5 cm) »  
Length: 72.00" (182.9 cm) »  
Weight: 5 oz (144 g)

**Yellow**

SG51142 \$21.25

### 7.5 ft loop

Width: 1.00" (2.5 cm) »  
Length: 90.00" (228.6 cm) »  
Weight: 6 oz (182 g)

**Blue**

SG51143 \$23.50

### 10 ft loop

Width: 1.00" (2.5 cm) »  
Length: 120.00" (304.8 cm) »  
Weight: 8 oz (236 g)

**Red**

SG51144 \$27.00

### 12.5 ft loop

Width: 1.00" (2.5 cm) »  
Length: 150.00" (381.0 cm) »  
Weight: 10 oz (292 g)

**Black**

SG51145 \$30.25



## PMI® Gear Daisy



Constructed of 1" (25 mm) tubular webbing, this multi-loop daisy chain helps organize your rigging gear. While not rated for life safety, each loop on our gear daisy will hold 2 kN (450 lbf) because of the "double back" construction.

**Key Features:** Single length of webbing • Hand loop at one end • Organize your gear • Made from 1" tubular webbing

**MBS: 2 kN (450 lbf)**

**3 ft - 9 gear loops** 4 oz (112 g) SG51035 \$21.00

**4 ft - 13 gear loops** 5 oz (155 g) SG51041 \$25.00



PMI® Multi Strap 

The Multi Strap is a multiple use, easy to use, and low cost tool for rescue and rigging. This one tool has over 20 uses; a pick off strap, litter bridle, adjustable footloop, Multi point anchor, and patient drag just to name a few. The Multi Strap is an invaluable tool to add to any gear cache. Now made with the SMC Rigging Ring (page 92).

**Key Features:** Fast connection • Extra layer of webbing for protection • Supporting loads up to 22 kN (5000 lbf) • Always select an anchor that is capable of supporting 22 kN (5000 lbf) per person attached

MBS: 22 kN (5000 lbf) » Weight: 5.2 oz (148 g)

Orange  
SG51236 \$22.00



Power Sling 

These ultra high strength sewn slings are made of lightweight, abrasion resistant Dyneema®. Only 12 mm in width, these slings are as strong as thicker nylon counterparts, but have less elongation.

**Key Features:** Lightweight • Great for non dynamic anchors • 12 mm width • Abrasion resistant

MBS: 22 kN (5000 lbf)

60 cm SG51157 \$8.75  
120 cm SG51158 \$14.50

COMPLIANT UIAA CE EN 566



Color for either size depends on available materials.



# Personal Gear

Personal Gear is just that: personal. PMI offers a variety of equipment to meet your needs, ranging from harnesses to helmets to gloves, connectors, and more. As a company full of people who also use the gear we sell, you can rest assured that PMI takes performance, comfort, and function to heart.

## Harness Selection

Find the right harness that meets all of your work and rescue specifications.

HARNESS	TECHNICAL RESCUE	SEARCH AND RESCUE	WORK AT HEIGHT	CONFINED SPACE	CLIMBING/MOUNTAINEERING	CAVING	GYM/CHALLENGE COURSE
PMI® Sympatico	X	X	X	X			X
PMI® Avatar Deluxe	X		X	X			
PMI® Avatar Full Body	X		X				
PMI® Avatar Seat	X	X					
PMI® Contour Harness	X		X				
heightec® Matrix Harness			X				
PMI® CS Tech Harness			X	X			
PMI® Delta Harness	X	X					
PMI® Alpine Harness	X	X	X		X		X
PMI® Pit Viper Harness						X	
PMI® Spectrum Harness		X			X		X



**Understanding Harness Standards**

NFPA's standard on Life Safety Rope and Equipment for Emergency Services classifies harnesses into two groups:

Class II: A seat harness meant for heavy duty work by one person or in rescue situations in which another person's weight may be added in the

course of the rescue. (Harness must pass Upright Static, Horizontal Static, and Dynamic Drop Test of a 300 lb test dummy)

Class III: A full body harness meant for protection and for use in rescues in which inversion might occur. (Harness must pass all 3 tests for Class II plus a 4th Head Down Static Test)

**New!** PMI® Sympatico

This harness is well-suited to your every adventure, balancing the minimalist style of recreational harnesses with the extraordinary support of industrial use harnesses. It's modular design permits it to be used as just a seat, or as a seat-chest combination, making it a perfect choice for ropes course use, mountain rescue, sport rappelling, and other suspension-intensive activities. With or without the chest harness, the high attachment point at the waist means that the harness sits more deeply than a climbing harness, while the light-weight, wide waistbelt offers superior comfort, hip D-rings for positioning, and a rear waist attachment for secure restraint. Chest harness attaches quickly and securely to provide sternal and dorsal attachment points, chest-ascender link, and soft loop connection points at the shoulders for vertical lift. Quick-release adjustable buckles at waist and legs make it easy to get in and out of the harness, while low profile D-rings offer full functionality in a lightweight package. For maximum compatibility think Sympatico!

Waist: 34" - 55" » Leg: 22" - 33" » Weight: 5.75 lbs (2.605 kg)

Standard SG51283 \$225.00

COMPLIANT CE EN 361 EN 358 EN 813 - BS EN 813:2008



*Check out the Logistics and Support Gear section of this catalog for gear pockets and packs.*

Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

**PMI® Avatar**

The Avatar is a one of a kind harness with an array of basic design and not so subtle features that make it the most versatile, comfortable, and useful harness you're ever likely to wear. Available as a seat only or with your choice of chest harnesses to meet NFPA Class III standards.

**Key Features:** 8 attachment points when used with the Diamond chest harness • Dorsal, sternal, waist, hip, shoulder, and lumbar attachments • Fully adjustable rear leg risers and chest harness • Available in two sizes to fit 30" - 61" waists • Ergonomic padding • Interchangeable, removable chest harness

**PMI® Avatar Seat Harness** 

The Avatar Seat harness is the Cadillac of harnesses. If you spend a lot of time in a seat harness, choose the Avatar for comfort.

**Key Features:** Front waist and lumbar attachment points • Ergonomic padding • Adjustable leg loops and rear risers

<b>Standard</b>	<b>Waist: 30" - 55" Leg: 19" - 34"</b>	<b>4.10 lbs (1.860 kg)</b>	<b>Black</b>	
<b>Large-XL</b>	<b>Waist: 35" - 61" Leg: 24" - 40"</b>	<b>4.25 lbs (1.928 kg)</b>	<b>SG51043</b>	<b>\$277.00</b>
			<b>SG51044</b>	<b>\$291.00</b>

**COMPLIANT** NFPA 1983 (2012), CLASS II



**PMI® Avatar diamond chest harness**

Providing maximum versatility for Fall Arrest or Confined Space Operations, the Diamond features sternal and dorsal attachment points as well as shoulder lifting rings. Includes a 10 mm Delta Mallion screw link. Not for use without the PMI® Avatar Seat Harness.

<b>2.10 lbs (953 g)</b>	<b>Black</b>	<b>SG51045</b>	<b>\$156.00</b>
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PMI® Contour Harness 

This lightweight version of the PMI® Avatar Rescue Harness is designed for those who only need front waist and sternum attachment points. It avoids the weight and bulk of heavier harnesses that have additional attachment buckles.

**Key Features:** Waist and sternal attachments • Fully adjustable rear leg risers and chest harness • Adjusts to fit 31" - 52" waists • Ergonomic padding • Non-removable chest harness • Storage bag included

Waist: 31" - 52" » Leg: 19" - 34"

**Black**  
4.19 lbs (1.900 kg) SG51155 \$239.00

**COMPLIANT** NFPA 1983 (2012), CLASS III



PMI® CS Tech Harness 

PMI's one-piece, full-body harness was designed with the needs of the Confined Space worker in mind. Separating buckles on the leg loops and shoulder strap make this harness easy to put on and take off.

**Key Features:** Dorsal, sternal, waist, and shoulder attachment points • Adjustable dorsal and shoulder rings • Adjusts to fit 31" - 52" waists • Break-apart buckles on legs and right shoulder • Ergonomic shoulder straps • Quick adjusting low profile buckles on waist • Storage bag included

Waist: 31" - 52" » Leg: 19" - 34"

**Grey/Red**  
5.06 lbs (2.300 kg) SG51156 \$262.00

**COMPLIANT** NFPA 1983 (2012), CLASS III ANSI Z359.1



Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

# Harnesses

## Harnesses for Fire Rescue and Industrial Use

Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

### PMI® Avatar Deluxe

The Avatar Deluxe builds on the outstanding reputation of our traditional Avatar harness with enhancements that satisfy the most demanding applications. The Avatar Deluxe is designed to give you years of performance and comfort. Meeting both NFPA 1983 (2012) and ANSI Z359.1 standards, our newest harness is at home in rescue, rope access, or fall-arrest applications.

**Key Features:** Patented AustriAlpin COBRA™ quick release buckles; color coded for ease of use • Adjustable, integrated upper and lower harness sections • New spring loaded buckle at the dorsal and waist attachments

				<b>Black</b>	
<b>Standard</b>	<b>Waist: 31" - 54"</b>	<b>Leg: 20" - 33"</b>	<b>6.00 lbs (2.722 kg)</b>	<b>SG51263</b>	<b>\$510.00</b>
<b>Large</b>	<b>Waist: 37" - 55"</b>	<b>Leg: 23" - 37"</b>	<b>6.20 lbs (2.812 kg)</b>	<b>SG51264</b>	<b>\$521.00</b>

**COMPLIANT** NFPA 1983 (2012), CLASS III ANSI Z359.1





### heightec® Matrix Harness

For innovation in harness technology, the Matrix tops the list. This full body harness with side D's is a sophisticated multi-use harness with superior lumbar support. An ingenious design for rope rescue and rope access applications.

**Key Features:** Fully adjustable • Front and rear attachments • Large central waist attachment • Thermo form lumbar support and leg padding for added comfort • Two side gear loops

Waist: 29" - 59" » Leg: 20" - 32"

**Black**  
4.52 lbs (2.050 kg)    **SG51255**    **\$390.00**

**COMPLIANT**    ANSI Z359.1, 2007 CE EN 361, EN 358



**New!** PMI® Alpine Backcountry Harness

This fully adjustable mountaineering harness is perfect for Search and Rescue professionals who require light weight comfort and adjustability. Buckles at the waist and legs allow the user to quickly adapt to different layers of clothing, whatever the weather. Reinforced polyester offers exceptional abrasion resistance, with reflective trim for nighttime visibility.

Waist: 26" - 56" » Leg: 18" - 33"

Standard **Green** **SG51217** \$63.00

COMPLIANT CE EN 12277



Rope  
Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

PMI® Delta Tactical Harness



The Delta is a lightweight, comfortable harness that provides a low profile for tactical operations, theatrical use, and any rigging or rescue applications. It is black to remain unseen with tactical/theatrical clothing, has a quick clip front attachment point, secure Double Back Buckles on the leg loops, a Quick Adjust Cam Buckle at the waist belt and it comes with a custom kit that can add multiple gear loops for carrying additional equipment if desired. If a lower profile is desired, gear loops may be left off.

**Key Features:** Lightweight • Comfortable padding • Black in color and low profile so as not to be easily seen • Quick clip front attachment point • Quick Adjust Cam Buckle on adjustable waist belt • Secure Double Back Buckles on adjustable leg loops • Custom gear loop kit • Sewn vertical webbing attachment points for custom gear loops • Elastic rear straps keep leg loops positioned correctly



				<b>Black</b>	
Standard	Waist: 31" - 45"	Leg: 20" - 33"	1.44 lbs (658 g)	<b>SG51110</b>	<b>\$119.75</b>
Large-XL	Waist: 37" - 55"	Leg: 23" - 37"	1.63 lbs (748 g)	<b>SG51111</b>	<b>\$119.75</b>



MADE IN THE USA

PMI® Spectrum Group Harness

A simple yet comfortable and versatile sport harness designed to adjust to a variety of users. Perfect choice for use on a ropes course or climbing wall.

**Key Features:** Adjustable waist (24" to 48") and adjustable leg loops (up to 34") • The Standard size adjusts to fit sizes Small, Medium, and Large

Waist: 24" - 48" » Leg: Up to 34"

	<b>Red</b>	
15.1 oz (426 g)	SG51112	\$86.25



PMI® Pit Viper Caving Harness MADE IN THE USA

This caving harness features a low profile and very low frontal attachment point, making it an excellent choice for cave exploration or cave rescue. Designed to work with the Frog chest harness.

**Key Features:** Adjustable waist and leg loops • Abrasion guards over the backs of each leg loop • Two gear loops • Add your own 10 mm screw link (page 57) to close the front

			<b>Red</b>	
<b>Standard</b>	Waist: 27" - 39"	Leg: 20" - 26"	SG51038	\$97.00
<b>Large</b>	Waist: 32" - 55"	Leg: 24" - 30"	SG51046	\$97.00
		1 lbs (454 g)		
		1.06 lbs (476 g)		



## Harness Accessories

### heightec® Workseat

The heightec® Workseat is not only sturdy but comfy too. Closed cell foam padding provides comfort for the long hours on the job. Fully adjustable buckles, even under load. Two gear loops provide ample space for tools or accessories.

**Key Features:** Adjustable buckles under load • Two gear loops • Closed cell foam padding

4.5 lbs (2.041 kg)    HD26188    \$188.00



### Spreader Bar

A spreader bar should be used any time someone is being lifted by shoulder attachment points such as those on the PMI® Avatar (page 31-32) or the PMI® CS Tech (page 34). Lifting without using a spreader bar will cause the shoulder straps to pinch at the neck.

**Key Features:**

Nylon web Y lanyard • Center D ring • 3/4" (1.2 cm) snap hooks on both ends

Width: 12.00" (30.5 cm) » Length: 20.50" (52.1 cm)  
» Weight: 1.88 lbs (853 g)

HD26050    \$80.25





**PMI® Dynamic Sewn Lanyard** 

The PMI® Dynamic Sewn Lanyard is intended for personal use in rope access, positioning, and safety systems. Ideal for use as a rope access cow's tail. This lanyard has PMI® Sewn Eyes on each end creating a permanent, sewn termination that is stronger than any knot. Requires carabiners for proper use.

**Key Features:** Made from 11 mm PMI Dynamic™ rope (page 17)  
 • Includes PMI® Sewn Eye terminations • Available in 4 lengths • Quick identification while in use: red rope is shorter, black rope is longer

**MBS: 22 kN (5000 lbf)**

Length	Weight	Rojo (Red)	
17.50" (44.5 cm)	2.7 oz (76.5 g)	SG51250	\$22.00
		Black	
24.0" (60.0 cm)	3.2 oz (91.3 g)	SG51261	\$22.50
32.5" (82.6 cm)	3.9 oz (110.7 g)	SG51251	\$23.00
39.4" (100.0 cm)	4.4 oz (125.5 g)	SG51262	\$23.50

**COMPLIANT** ANSI Z359.1, 2007



**heightec® Tensor Single Lanyard**

The heightec® Tensor Single Lanyard features the new Suspension Trauma Shock Absorber. This innovative shock absorber features an integral, automatically deployed foot loop for protection against Suspension Intolerance.

**Key Features:** Sewn terminations • MBS: 25 kN (5620.22 lbf) on scaffold hook end • Features new Suspension Trauma Lanyard

**Length: 1.75 m (5.7 ft)**

**SG51233 \$158.00**

**COMPLIANT** ANSI Z359.1, 2007 CE EN 354 EN 355 EN 362



**heightec® Tensor Twin Lanyard**

Energy absorbing fall arrest lanyard of the very highest specification. heightec® lanyards are premium products offering advanced safety features.

This lanyard has impressive technical specifications: the back-up webbing and stitching exceed the tensile strength requirements of European standard EN 355 by 50% and it has been dynamically tested with a load of 275.58 lbs (125 kg) without damage.

**Key Features:** Sewn terminations • Twin round web lanyard • 25 kN (5620.22 lbf) scaffold hook

**1.25 m**  
**Length: 1.25 m (4.1 ft) »**  
**Weight: 3.32 lbs (1.510 kg)**

**SG51234 \$230.00**

**1.50 m**  
**Length: 1.50 m (5 ft) »**  
**Weight: 3.44 lbs (1.560 kg)**

**SG51235 \$248.00**

**COMPLIANT** ANSI Z359.1, 2007 CE EN 354 EN 355 EN 362



**ANSI Z359**

Keeping your high work teams safe and compliant can be a full time job. Let us help!

With PMI's full line of ANSI Z359 compliant products, your crews can stay safe and meet all the latest regulatory requirements.

**What Is ANSI?**

ANSI stands for American National Standards Institute. The Institute oversees the creation, promulgation, and use of thousands of standards and guidelines that directly impact businesses in nearly every sector, including work at height in General Industry and Construction. ANSI is the official U.S. representative to the International Organization for Standardization (ISO).

**What Does ANSI Z359 Cover?**

ANSI Z359 establishes performance criteria for the key equipment used in fall protection, fall restraint, and rescue after a fall.

ANSI Z359 addresses the overall fall protection program rather than just equipment. ANSI Z359.2 describes the Comprehensive Managed Fall Protection Program, while subsequent chapters are concerned with specific components and equipment.

# Lanyards

*Lanyards for All Purpose Use*

**New!** PMI® Deltic Adjustable Lanyard

For positioning and restraint, nothing beats PMI's Deltic, constructed of 12.5mm low stretch rope with a durable abrasion guard and reinforced eye at the sewn termination. Micro-clutch rope adjuster offers security and easy adjustment without adding unnecessary weight or bulk.

Length	Weight		
2 m (6.6 ft)	1.26 lbs (570 g)	SG51275	\$98.00
5 m (16.4 ft)	1.75 lbs (795 g)	SG51276	\$110.00

**COMPLIANT** CE EN 358



**New!** PMI® Intercept Single Lanyard

The PMI Intercept is constructed of durable kernmantle rope with durable abrasion protectors inside the sewn eye and an integral energy absorber to meet EN 355 and EN 362 standards. Removable cover is designed to accommodate thorough inspection, and a unique serial number offers maximum traceability.

Length: 1.8 m (5.9 ft) » Weight: 2.07 lbs (937 g)

SG51274	\$126.00
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**COMPLIANT** CE EN 355 EN 362



heightec® Piranha Adjustable Lanyard

The Piranha pole belt adjustable lanyard is a new, compact device used for work positioning on masts, towers, pylons, or other lattice structures in the telecoms, power and entertainment industries. Sewn terminations and safety hook termination for durability. An additional safety back-up should always be employed when using positioning equipment.

**Key Features:** Can accurately be controlled with one hand • Piranha has stainless steel body and cam • Available with safety hook for secure harness attachment

**Adjustable Lanyard w/ Safety hook**

Length: 2 m (6.6 ft) » Weight: 1.88 lbs (840 g)

HD26179	\$182.00
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**COMPLIANT** CE EN 358



**New!** PMI® Intercept Twin Lanyard

This V-shaped fall arrest lanyard incorporates an integral energy absorber, and complies with European fall arrest standards EN355 and EN362. It offers maximum protection for passing intermediate anchors on a fixed line. Sewn terminations are protected by a removable cover to permit complete inspection.

Length	Weight		
.75 m (2.5 ft)	3.00 lbs (1.357 kg)	SG51272	\$162.00
1.5 m (4.9 ft)	3.24 lbs (1.469 kg)	SG51273	\$164.00

**COMPLIANT** CE EN 355 EN 362



There are some jobs that require very specific gear. Tough equipment for the toughest jobs is what PMI can offer for any situation. PMI offers lanyards for work positioning, fall prevention, temporary and adjustable safety systems, rope climbing, and fall arrest.



Photo TranSystems

**New!** PMI® Vitas Lanyard

Constructed of dynamic kernmantle life safety rope, the Vitas can be used longitudinally or knotted in the middle to make two legs of customizable length. The Vitas is specially designed to meet strict European fall protection standards, and is a versatile tool for anyone working at height.



Length	Weight		
17.50" (44.5 cm)	3.0 oz (84 g)	SG51277	\$17.00
32.5" (82.6 cm)	4.0 oz (112 g)	SG51278	\$19.00
59.0" (1.50 m)	5.7 oz (163 g)	SG51279	\$24.00

COMPLIANT CE EN 354 EN 795B

PMI® Caver's Cows Tail

Use this personal connection/positioning strap in ascending systems, or as a safety on a traverse line, or at a belay station. Requires carabiners for proper use.

**Key Features:** Made from ½" nylon webbing • Short leg: 11" • Long leg: 21"

**Weight:** 2.7 oz (77 g) » **MBS: Static Load Limit:** 589 lbf » **MBS (fully extended):** 3890 lbf »

**Shock Load:** Factor 2, short leg: 1984 lbf | Factor 2, long leg: 2860 lbf

Blue  
SG51048 \$28.00



Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

## Pick Off Straps

*Pick Off Straps for All Purpose Use*

### PMI® Pick Off Strap

This traditional pick off strap has a metal D ring at the rescuers end for a metal-on-metal connection. Once connected, slack can be removed simply by pulling on the free end of the strap.

**Key Features:** Fast connection • Hook and loop keeper • Adjustable length: 8" to 50"

*Weight: 11 oz (312 g) » MBS: 20 kN (4496 lbf)*

**Black**

**SG51032**

**\$51.00**



### PMI® Easy Pick Off Strap

This high performance pick off strap is designed to weigh less and be less bulky, but still perform when you need it. With a sewn anchor loop on the load end and a hand loop on the haul end, this strap allows for quick weight transfer from one system to another.

**Key Features:** Lightweight • Sewn anchor loop on one end • Hand loop • Hook and loop keeper • Adjustable length: 7" to 42"

*MBS: 9 kN (2023 lbf) »*

*Length: 42.00" (106.7 cm) »*

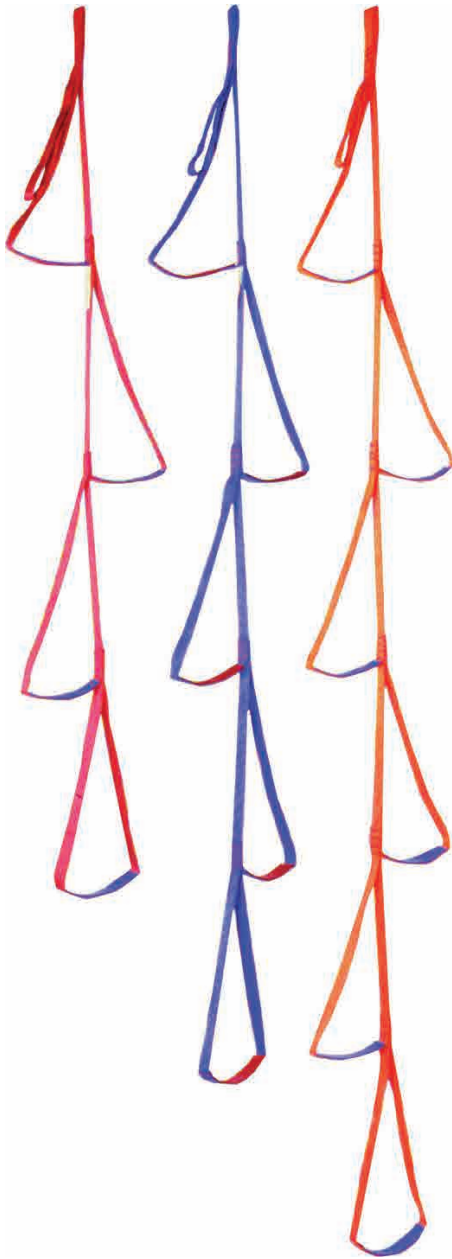
*Weight: 9 oz (255 g)*

**Blue**

**SG51180**

**\$44.50**





PMI® Etrier  **MADE IN THE USA**

Use the sturdy PMI® Etrier when climbing in, on, or around structures, or anywhere you need an extra boost. Attach Etrier to an anchorage by top loop and ascend steps like a soft "stepladder."

**Key Features:** Reinforced steps in contrasting colors • 1" tubular webbing • MBS of each loop is 2 kN (450 lbf) • Loop width: 5"

**MBS: 2 kN (450 lbf)**

**4-Step**

Height: 1.00" (2.5 cm) »  
Width: 5.00" (12.7 cm) »  
Length: 51.00" (129.5 cm) »  
Weight: 7.0 oz (201 g)

**Red**  
SG51040 \$37.00

**5-Step**

Height: 1.00" (2.5 cm) »  
Width: 5.00" (12.7 cm) »  
Length: 63.00" (160.0 cm) »  
Weight: 8.0 oz (239 g)

**Blue**  
SG51034 \$38.00

**6-Step**

Height: 1.00" (2.5 cm) »  
Width: 5.00" (12.7 cm) »  
Length: 72.00" (182.9 cm) »  
Weight: 9.9 oz (280 g)

**Orange**  
SG51096 \$46.50

PMI® 1-Ztep  **MADE IN THE USA**

Adjustable, heavy-duty footloop for use in ascending.

**Key Features:** Adjustable: 28" - 46" • Reinforced foot loop • Heavy 1" flat webbing

Weight: 4.0 oz (113 g) » MBS: 2 kN (450 lbf)

**Black**  
SG51049 \$19.00

**BERRY COMPLIANT**



**Helmet Selection**

Helmets provide critical protection when working at height, whether from impact during a fall or from dropped items from above. Choosing the right helmet for the job is a matter of protection, compliance and comfort. PMI offers only helmets with 3 or 4 point retention systems that ensure the helmet stays put even during a tumbling fall. Helmets for technical rescue and work at height should offer sufficient impact protection, as well as meet the standards specified by your organization. Where heat protection is a requirement, choose the USAR helmet. For swiftwater, select a helmet with drain holes in the top and/or low volume to prevent being swept away by a sea-anchor effect.

**Helmet Fit**

A comfortable, well-fitting helmet that is designed specifically for vertical work is essential. Helmets must have a secure chin strap and a three-point suspension to keep the helmet on the head when it is needed most. A three point suspension refers to a helmet with webbing support points on both sides of the helmet and at the rear. The chin strap should also be designed so that a relatively high force is required to cause a release. This helps keep the helmet on the user's head in a tumbling fall. The inside suspension of the helmet should hold the shell away from the skull during a blow to the helmet and should provide air circulation and comfort, particularly during hot weather. The shell should have the rigidity to resist impact to the helmet and penetration by sharp objects but be flexible enough to absorb some of the blow that otherwise would be directly transmitted to the skull and spine.

HELMET	TECHNICAL RESCUE	URBAN SAR	SEARCH AND RESCUE	WORK AT HEIGHT	CONFINED SPACE	WATER RESCUE
PMI® Falcon	X		X	X		
PMI® Brigade Rescue	X	X	X		X	
PMI® Advantage	X	X		X		
PMI® Current						X
PMI® USAR		X				
PMI® Ventilator	X		X	X		
PMI® POD				X	X	

**New!** PMI® Falcon

PMI's Falcon helmet is designed for use at work-at-height and for professional rescue. The helmet is equipped with both a four-point suspension system to reduce impact, and also a ventilation system with metal mesh for air circulation and protection from debris. It also features headlamp/goggle retainer clips. The new low profile design also contains a helmet adjustment dial with a four-point retention system for customized fitting. Weighing less than one pound, this helmet is very lightweight and also has a comfortable moisture wicking headband liner that can be removed and cleaned. One size fits most with a range of 20 to 24.4 inches and the design offers a good adaptation to various head sizes.

**Key Features:** 4 point helmet suspension system for impact reduction • Comfortable, moisture wicking headband liner that can be removed and cleaned • Ventilation system with metal mesh that provides air circulation on both sides of the helmet for maximum comfort while working and prevents debris from entering the helmet • Headlamp/goggle retainer clips • Helmet adjustment dial and 4 point retention system for customized fitting adjustments

Size: **One Size** » Head Circumference: 52 - 64 cm (20 in - 24.4 in)  
 » Weight: .82 lbs (375 g)

Red HL33083      White HL33084      \$79.95

COMPLIANT CE EN 397



PMI® Advantage

For classic styling, maximum comfort, and minimum impact, PMI® Advantage offers industrial Kevlar® head protection and plenty of detail oriented comfort. Fully adjustable ratchet headband and straps make this a helmet for almost any size head. Meets NFPA 1951 as a Utility Technical Rescue Protective Helmet Standard.

**Key Features:** Fully adjustable • Three point chinstrap • Headlamp retainer • Goggle mount • Clips to attach earmuffs

**Size: One Size » Head Circumference: 52 - 64 cm » Weight: 1.25 lbs (567 g)**

<b>Orange</b>	<b>Red</b>	<b>Blue</b>	<b>White</b>	<b>Matte Black</b>	
HL33011	HL33012	HL33013	HL33014	HL33035	\$184.25

<b>Fluorescent Green</b>	
HL33018	\$207.25

<b>Replacement Chin Strap</b>	<b>Replacement Suspension System</b>
HL33019 \$20.00	HL33020 \$24.00

<b>COMPLIANT</b>	NFPA 1951 (2013) EN 397 AS/NZS 1801 ANSI Z89.1 TYPE 1 CLASS G
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PMI® Ventilator

This light duty rescue helmet has all of the features of the Advantage, but has an added vent for those jobs when you need the protection of the Kevlar® shell along with a breeze.

**Key Features:** Kevlar® shell • Three point chinstrap • Headlamp retainer • Reflectors • Fully adjustable

**Size: One Size » Head Circumference: 52 - 64 cm » Weight: 1.13 lbs (510 g)**

<b>White</b>	<b>Red</b>	
HL33069	HL33068	\$195.00

<b>COMPLIANT</b>	EN 397 AS/NZS 1801 ANSI Z89.1 TYPE 1 CLASS G
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Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

# Helmets

## Helmets for Fire Rescue

### **New!** PMI® Brigade Rescue

The Brigade is a professional rescue helmet based on the most up-to-date European designs for rescue paramedic use. The reinforced composite shell is covered in a high-gloss, UV resistant paint for great protection and easy cleaning. This helmet offers maximum protection in a light weight, comfortable package, and is designed to outlast and outperform thermoplastic helmets. The ratcheted headband adjusts quickly from 52 to 64 cm, while the 4-point polyester retention system and chin strap ensure that the helmet stays comfortably and securely on the wearers head. This helmet meets applicable AS/NZS and CE PPE standards.

**Size: One Size » Head Circumference: 52 - 64 cm » Weight: 1.52 lbs (690 g)**

<b>White</b> HL33086	<b>Red</b> HL33085	<b>Matte Black</b> HL33087	<b>\$271.00</b>
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<b>COMPLIANT</b>	<b>NFPA 1951 (2013) AS/NZS 1801, ANSI Z89.1 TYPE 1 CLASS G</b>
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### USAR Helmet

PMI is proud to offer this unique rescue helmet, compliant with the newest NFPA 1951: Standard on Protective Ensembles for Technical Rescue Operations as a Rescue and Recovery Technical Rescue Protective Helmet.

**Key Features:** Ventilated Kevlar® RTM™ • Full head polyurethane impact liner • Leather ratchet headband • Leather crown comfort cap • Nomex® chinstrap

**Size: One Size » Head Circumference: 52 - 64 cm » Weight: 2 lbs (907 g)**

<b>Yellow</b> HL33039	<b>Black</b> HL33041	<b>Red</b> HL33038	<b>White</b> HL33037	<b>\$365.00</b>
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<b>COMPLIANT</b>	<b>NFPA 1951 (2013) EN 397 AS/NZS 1801 ANSI Z89.1 TYPE 2 CLASS G</b>
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Rope  
Webbing and Cordage  
Personal Gear  
Hardware  
Solutions and Kits  
Patient Care  
Logistics and Support Gear  
Training and Education



PMI®'s Current Rescue Pro Helmet from WRSI

This helmet features a multi-impact design to absorb and dissipate energy in swiftwater rescue situations. Adjusts easily to fit any team member with adjustable O-brace tabs. The helmet is low profile and lightweight. Designed by the Whitewater Research and Safety Institute for superior performance in fast moving whitewater.

**Key Features:** Four-Layer design: outer shell, energy absorbing foam • Energy dissipating inner shell, energy absorbing foam • Comfort Ergonomics • Durable Outer Shell • Patented Retention System • Head Circumference Range: 20.3" to 23.5" • Multiple Vents

Head Circumference: 48 - 55 cm (Small/Medium), 54 - 59 cm (Medium/Large) » Weight: 1.5 lbs (680 g)

Yellow Vented

HL33078	Small/Medium	\$87.95	
HL33079	Medium/Large	\$87.95	

Red Vented

HL33080	Small/Medium	\$87.95	
HL33081	Medium/Large	\$87.95	

COMPLIANT CE EN 1385



PMI® Pod

Excellent for vertical work and confined space operations, the POD is versatile, lightweight, and features a built in light pod that accepts the intrinsically safe UK4AA Light (shown below).

**Key Features:** Three point chinstrap • Flash light POD • Goggle mount

Size: One Size » Head Circumference: 52 - 64 cm »

Weight: 1.25 lbs (567 g)

Red	White	
HL33025	HL33026	\$185.50

COMPLIANT EN 397 AS/NZS 1801 ANSI Z89.1 TYPE 1 CLASS G



Light sold separately



UK4AA Light

The unbreakable UK4AA Light is the perfect hand held light and it works with the PMI® Pod Helmet (shown above). A bright Xenon bulb provides brilliant, long lasting light.

**Key Features:** Waterproof twist on/off bezel • Virtually indestructible • Powered by 4 AA batteries included

Weight: 7 oz (198 g)

Yellow	
HG32006	\$31.99



## Helmet Accessories

### X-tricator Goggles

Exclusive tech features make these the goggle of choice for wildland firefighting, technical rescue, and EMT personnel. Fully ventilated frame with buffered airflow for powerful fog resistance and high filtration of airborne particles and smoke.

**Key Features:** 2.4 mm thick • High impact polycarbonate lenses • Closed cell foam padding for a perfect fit • Anti-scratch and anti fog lenses

*Weight: w/Mount 8.5 oz (176 g), w/o Mount 5 oz (142 g),*

**Screw, snap on mount HL33021 \$49.50**

**COMPLIANT** ANSI Z87.1-03 CE EN 166 (B)

**Without mount HL33022 \$46.00**

**COMPLIANT** ANSI Z87.1-03

**Nomex® Sleeve HL33029 \$20.00**

**COMPLIANT** NFPA 1971 (2013)



### Peltor Hi Viz Ear Muffs

Peltor helmet mount ear protectors mount firmly to the PMI® Advantage (page 38) and many other helmets for comfortable, unparalleled hearing protection. Low profile construction fits close to the head, with no protruding parts. Purchase Mounting Clips if using these earmuffs on a PMI Helmet.

*Weight: 11.0 oz (312 g)*

**Peltor Hi Viz Ear Muffs  
HL33042 \$38.00**

**Mounting Clips  
HL33045 \$38.25**



### Striketeam XTO Goggles

Exclusive tech features make these the goggle of choice for wildland firefighting, technical rescue, and EMT personnel. Fully ventilated frame with buffered airflow for powerful fog resistance and high filtration of airborne particles and smoke.

**Key Features:** 2.4 mm thick • High impact polycarbonate lenses • Closed cell foam padding for a perfect fit • Anti-scratch and anti-fog lenses

*Weight: 5 oz (142 g)*

**HL33023 \$42.00**

**COMPLIANT** ANSI Z87.1-03



Providing more than the latest technology, Black Diamond headlamps anticipate your needs, function flawlessly, and offer real innovation. Reliable and lightweight, these headlamps meet the needs of anyone who accidentally - or intentionally - winds up in the dark.

### Here are some considerations when choosing a light:

- 1) Lumens - all lights below have a lumen output rating—these headlamps throw bright light far and wide.
- 2) SuperBright LED - Providing brilliant, close-range light for reading and other handy tasks.
- 3) Hybrid power - Mixing Xenon Bulbs with a SuperBright LED creates versatile headlamps that excel at work and play.

## Icon

Whether you're a SAR professional on a nighttime rescue or you're rappelling an alpine route, the Black Diamond Icon Headlamp provides an unparalleled 320-lumen output, making it our most powerful light. Waterproof to 1 m, it's ready for everything your adventure might entail. A red night-vision mode that is accessed without cycling through the white mode easily protects your night vision, while dimming, strobe and lock modes add lighting options for all conditions.

**Key Features:** One QuadPower LED spotlight, two SinglePower white LEDs and two SinglePower red LEDs emit 320 lumens (max. setting) • Red night-vision mode has proximity and strobe settings and activated without cycling through the white mode • Settings include full strength (in proximity and distance modes), dimming, strobe, red night vision and lock mode • Three-level power meter shows remaining battery life for three seconds after switching on headlamp • IPX7: Waterproof—Best for saltwater and extremely wet environments. Unit is completely sealed and tested to operate up to 1 meter underwater for 30 minutes. Requires no maintenance after submersion

Weight: 8.1 oz (230 g)

Aluminum      HG32027      \$89.95



## Spot

Our most popular headlamp for everything from pre-work dawn patrols to late-night rappels after a long day, the Black Diamond Spot Headlamp now features 200 lumens of power in a waterproof package. Featuring PowerTap Technology, easy on-the-fly brightness adjustments are literally at the tip of your fingers. At first touch, the proximity light is illuminated, eliminating the headlamp shuffle when transitioning from camp tasks to low-light activities. With a handy lock mode, the Spot is safe from accidental battery drain while in your pack or pocket.

**Key Features:** One TriplePower LED, one SinglePower white LED and one SinglePower red LED emits 200 lumens (max setting) • PowerTap Technology allows fast and simple transitioning between full and dimmed power in order to instantly increase illumination in distance or proximity modes • Red night-vision mode has proximity and strobe settings, and activates without cycling through the white mode • Sleek, low profile design uses three AAA batteries and three-level power meter shows remaining battery life for three seconds after switching on headlamp • Settings include: full strength in proximity and distance modes, dimming, strobe, red night vision and lock mode • IPX8: Waterproof—Tested to operate up to 1.1 meters underwater for 30 minutes. If submerged, water may enter the battery compartment and it will still operate, and it should be dried out completely afterwards.

Weight: 3.2 oz (90 g)

Aluminum      HG32028      \$39.95

## Cosmo

After-dark dinners on the tailgate, mid-week dawn patrols or late hikes out from the crag are easily handled by the Black Diamond Cosmo headlamp, a sleek, super-bright headlamp for any outdoor pursuit that runs short on daylight. The Cosmo features 160 lumens of power and six different lighting modes, including red night vision, that all adjust with a single push-button switch. And with a sleek and modern water resistant construction, the Cosmo keeps shining the way through unexpected storms, afternoon precip and accidental dunkings.

**Key Features:** 1 TriplePower LED, 1 DoublePower LED and 1 DoublePower red LED emit 160 lumens (max setting) • Red night-vision mode has proximity and strobe settings, and activates without cycling through the white mode • Sleek, modern design with tiltable housing uses 3 AAA batteries • Settings include proximity and distance modes, dimming, strobe, red night vision and lock mode • IPX4: Storm proof—Tested to withstand rain and sleet from any angle

Weight: 3.0 oz (87 g)

Matte Black      Aluminum      \$29.95  
HG32030      HG32029



## Ion

Extremely compact and powerful, the Black Diamond Ion headlamp packs 80 lumens of power into a tiny package for just-in-case lighting and ultralight missions. The touch-control housing lets you switch from full power to dimmed, strobe or red night vision lighting at the swipe of a finger.

**Key Features:** One DoublePower LED and one SinglePower red LED emit up to 80 lumens on max setting • Modern touch-control housing runs on two AAA lithium, standard alkaline or rechargeable batteries (comes with lithiums for lightweight cold-weather performance) • Settings include full strength in proximity and distance modes, dimming, strobe, red night vision and lock mode • IPX8: Waterproof—Tested to operate up to 1.1 meters underwater for 30 minutes

Weight: 1.7 oz (48 g)

Assorted Colors      HG32031      \$24.95

## UK4AA Light

The unbreakable UK4AA Light is the perfect hand held light and it works with the PMI® Pod Helmet (shown on page 47). A bright Xenon bulb provides brilliant, long lasting light.

**Key Features:** Waterproof twist on/off bezel • Virtually indestructible • Powered by 4 AA batteries included

Weight: 7 oz (198 g)

Yellow      HG32006      \$31.99





## Force 6 Rescuer PFD

The Force 6 Rescue vest is equipped with a strong swimmers belt and quick-release system; providing superior safety and versatility in a streamlined version of the top of the line Swiftwater Rescue Technician Force 6 Instructor's PFD.

**Key Features:** Integrated 1" nylon tape structural harness • Knife and scissors and strobe light attachments on both sides • Reflective tape over the shoulder front pockets • Foam shoulders for added strength • Under the arm adjustment straps • Three part waist belt • Two front mesh pockets

### Med-Large

Weight: 3.4 lbs (1.500 kg) » Size: Chest Circumference: 32" - 52"

Red

SG51223 \$249.00

### X-Large

Weight: 4.1 lbs (1.900 kg) » Size: Chest Circumference: 44" - 62"

Red

SG51224 \$249.00

COMPLIANT IRIA



## Force 6 RescueTec PFD

Force 6 Swiftwater RescueTec PFD is a UL listed and United States Coast Guard approved Type 5 Professional Swiftwater Rescue PFD. The RescueTec PFD is feature loaded including a removable left-front pocket, dual 1 1/2 in QR belts for throw bag attachment, waist belt with Gripp-Loc to prevent ride up. Adjustable shoulders with dual AustriAlpin anodized aluminum buckles, Molded extraction handle, 4 inch Velcro® name attachment back-band, Heavy duty YKK front entry zipper, 12 elastic strap container bands, rear hydration attachment points, neoprene neck water dam, lapel strap tunnels, and reflective material on both the front and the back.

**Key Features:** UL listed and United States Coast Guard approved Type 5 Professional Swiftwater Rescue PFD

- 22 lbs. minimum flotation on both the S/M and L/XL models • Gripp-Loc on waist belt to reduce ride up
- Left Front Pocket • Shell Fabric - High tenacity 420 Denier Fabric

### Small-Med

Weight: 5.00 lbs (2.268 kg) » Size: Chest Circumference: 28" - 44"

Red

SG51266 \$379.00

### Large-XL

Weight: 6.00 lbs (2.722 kg) » Size: Chest Circumference: 38" - 56"

Red

SG51267 \$379.00

COMPLIANT USCG TYPE 5 PROFESSIONAL



## PMI® H2-Throw

Lightweight nylon throw bags stuffed with PMI®'s Water Rescue Rope (page 15).

**Key Features:** Lightweight nylon bag • Pre-tied loop terminations • Bag includes flotation disc • Rigged and ready to go • Bags also sold separately

**7 mm - 23 m (75 ft)**

MBS: 8 kN (1798 lbf) » Weight: 1.7 lbs (789 g)

KT36021 \$69.40

**10 mm - 15 m (50 ft)**

MBS: 16 kN (3597 lbf) » Weight: 2.31 lbs (1.043 kg)

KT36023 \$60.40

**10 mm - 23 m (75 ft)**

MBS: 16 kN (3597 lbf) » Weight: 3.63 lbs (1.656 kg)

KT36019 \$81.25



## PMI® Throw Bag with Economy Rescue Rope

Lightweight nylon throw bags stuffed with PMI®'s Economy Water Rescue Rope (page 15).

**Key Features:** Lightweight nylon bag • Pre-tied loop terminations • Bag includes a flotation disc • Rigged and ready for use

**10 mm - 15 m (50 ft)**

MBS: 8 kN (1798 lbf) » Weight: 1.3 lbs (590 g)

KT36024 \$32.00

**10 mm - 23 m (75 ft)**

MBS: 8 kN (1798 lbf) » Weight: 1.8 lbs (816 g)

KT36020 \$36.00



see page 16 for additional water rescue ropes



# BUFF®

## Dry-Cool BUFF®

Seamless, Dry-Cool BUFF® is made with Coolmax® Extreme fabric and is ideal for use in warm/sunny climates or during the hottest months of the year. Select styles feature 3M® Scotchlite BUFF® reflective material for high visibility and safety. Dry Cool BUFF® protects you from the hot sun, dust and exposure on the jobsite.

**Key Features:** Blocks 95% of UV rays • Multifunctional • Exceptional moisture wicking with its 4-channel fibers • Soft, breathable Coolmax® Extreme fabric • 100% seamless • Cool in the summer, extra layer of warmth in the winter • 2-way lateral stretch • Polygiene active odor control • Quick drying • One-size-fits-all adults



HL33074	Orange Fluorescent	\$18.00
HL33075	Reflective Yellow Fluorescent	\$18.00



## **New!** Thermal BUFF®

Thermal BUFF® is the seamless multifunctional tubular made with Thermolite®, an excellent insulating fabric composed of hollow-core fibers. It enhances comfort in cold temperatures by wicking moisture away and maintaining body temperature.

**Key Features:** Made with Thermolite® • Breathable fabric • Maintains body temperature • Polygiene® treatment keeps fabric clean longer and stops odors

HL340303	Navy	\$17.00
HL340306	Black	\$17.00





Order your custom design BUFF® headgear today! It may include your company's or organization's logo. Call your Account Manager or PMI Customer Service for details.



Fire Resistant BUFF®

Made with DuPont™ Nomex® and XLA™, Fire Resistant BUFF® is certified as Personal Protective Equipment under standards EN-13688, EN ISO 11612-08 and EN1149-5/08. This headwear is ideal for electrical, chemical, petrochemical and other industrial workers. It's also suitable for police officers, military personnel and fire fighters who require protection from thermal hazards and potentially explosive environments.

**Key Features:** Multifunctional; 12+ ways to wear • Made with fire-resistant DuPont™ Nomex® material • Soft, breathable fabric • 100% seamless • Cool in the summer, extra layer of warmth in the winter • 2-way lateral stretch • One-size-fits-all adults

HL33076	Forest Green	\$45.00
HL33077	Red	\$45.00



**New!** Polar BUFF®

Polar BUFF® is composed of a seamless tube of Thermolite® sewn to a tube of Polartec® fleece fabric. This combination of fabrics helps to combat heat loss and maintains body temperature in extreme cold environments. Product certified according to the UNE-EN 14058:2004 standard, which classifies it as a PPE Thermal Resistance Class 1 product (UNE-EN 31092:1996/ A1:2013) and also as belonging to Air Permeability Class 1 (UNE-EN ISO 9237:1996).

**Key Features:** Seamless Thermolite® tubular sewn to a Polartec® fleece fabric tubular • Combats heat loss • Maintains body temperature in extreme cold weather

HL340403	Navy	\$27.00
HL340406	Black	\$27.00



# Gloves

PMI offers a variety of gloves to fit your every need. Review the Key Features of the various gloves below and visit [shop.pmirope.com](http://shop.pmirope.com) for a Glove Sizing chart to assist in your selection.

## HOW TO MEASURE FOR SIZING PMI GLOVES

- 1) *Circumference:* measure around widest part of knuckles.
- 2) *Length:* measure from crease in wrist to tip of 3rd finger (the longest).
- 3) *If hand length exceeds the max. length shown, pick next larger size of glove.*



GLOVE NAME	WEIGHT	MATERIAL	SIZING INFO	
<b>X-SMALL</b>			<b>Circumference</b>	<b>Max Length</b>
Fingerless	4.3 oz (121 g)	Goatskin and Cowhide	7.0" - 7.5"	
Rope Tech	7.9 oz (224 g)	Synthetic Leather and Cowhide	7.0" - 7.5"	7.25"
<b>SMALL</b>			<b>Circumference</b>	<b>Max Length</b>
Fingerless	4.7 oz (133 g)	Goatskin and Cowhide	7.5" - 8.0"	
Rope Tech	7.9 oz (224 g)	Synthetic Leather and Cowhide	7.5" - 8.0"	7.5"
Lightweight Rappel	4.7 oz (133 g)	Goatskin and Cowhide	7.5" - 8.0"	7.5"
Heavyweight	7.9 oz (224 g)	Cowhide	7.5" - 8.0"	7.5"
Tactical	7.9 oz (224 g)	Cowhide	7.5" - 8.0"	7.5"
<b>MEDIUM</b>			<b>Circumference</b>	<b>Max Length</b>
Fingerless	4.7 oz (133 g)	Goatskin and Cowhide	8.0" - 8.75"	
Rope Tech	9.0 oz (255 g)	Synthetic Leather and Cowhide	8.0" - 8.75"	7.75"
Lightweight Rappel	4.7 oz (133 g)	Goatskin and Cowhide	8.0" - 8.75"	7.75"
Heavyweight	9.3 oz (264 g)	Cowhide	8.0" - 8.75"	7.75"
Tactical	9.0 oz (225 g)	Cowhide	8.0" - 8.75"	7.75"
<b>LARGE</b>			<b>Circumference</b>	<b>Max Length</b>
Fingerless	5.3 oz (150 g)	Goatskin and Cowhide	8.75" - 9.50"	
Rope Tech	9.1 oz (258 g)	Synthetic Leather and Cowhide	8.75" - 9.50"	8.0"
Lightweight Rappel	5.3 oz (150 g)	Goatskin and Cowhide	8.75" - 9.50"	8.0"
Heavyweight	9.5 oz (269 g)	Cowhide	8.75" - 9.50"	8.0"
Tactical	9.1 oz (258 g)	Cowhide	8.75" - 9.50"	8.0"
<b>X-LARGE</b>			<b>Circumference</b>	<b>Max Length</b>
Fingerless	5.7 oz (162 g)	Goatskin and Cowhide	9.50" - 10.50"	
Rope Tech	10.1 oz (286 g)	Synthetic Leather and Cowhide	9.50" - 10.50"	8.25"
Lightweight Rappel	5.7 oz (162 g)	Goatskin and Cowhide	9.50" - 10.50"	8.25"
Heavyweight	9.6 oz (272 g)	Cowhide	9.50" - 10.50"	8.25"
Tactical	10.1 oz (286 g)	Cowhide	9.50" - 10.50"	8.25"
<b>XX-LARGE</b>			<b>Circumference</b>	<b>Max Length</b>
Rope Tech	10.5 oz (298 g)	Synthetic Leather and Cowhide	10.50" - 12.0"	8.50"
Lightweight Rappel	5.7 oz (162 g)	Goatskin and Cowhide	10.50" - 12.0"	8.50"





**PMI® Fingerless Belay Gloves - White/Tan**

PMI's famous Rappel Glove, re-engineered. Fingerless design constructed of pliable goatskin and an extra layer of durable cowhide across the palm. Goatskin is used because it has a short break-in period and it also naturally contains lanolin which keeps the gloves supple. An original innovative designed leather pull tab between the fingers makes removal easy. Belay gloves run smaller than other gloves so ask your PMI CSR for sizing recommendation.

**Key Features:** Lightweight • Soft leathers provide easy movement • Fingers covered just enough for protection • Quick removal

**X-Small**

Weight: 4.3 oz (121 g) »  
Circumference: 7.0" - 7.5"

GL22401      \$35.50

**Medium**

Weight: 4.7 oz (133 g) »  
Circumference: 8.0" - 8.75"

GL22403      \$35.50

**Small**

Weight: 4.7 oz (133 g) »  
Circumference: 7.5" - 8.0"

GL22402      \$35.50

**Large**

Weight: 5.3 oz (150 g) »  
Circumference: 8.75" - 9.5"

GL22404      \$35.50

**X-Large**

Weight: 5.7 oz (162 g) »  
Circumference: 9.5" - 10.5"

GL22405      \$35.50

**PMI® Rope Tech Gloves - Tan**

Hand protection and finger dexterity at its best. This ultra-lightweight design is great for belaying, knot tying, and other rigging work. It is not suitable hand protection for fast rope or other body rappel techniques.

**Key Features:** Synthetic leather (palm base layer) • Cowhide layer (finger wear points and palm) • Ergonomically shaped for maximum protection and durability • Two-Way stretch spandex on top and fingers for greater mobility and breathability • Elastic cuff with pull-tab and Velcro® closure • Carabiner loop stores inside for snag free operations

**X-Small**

Weight: 7.9 oz (224 g) »  
Circumference: 7.0" - 7.5" » Max Length: 7.25"

GL22301      \$40.50

**Small**

Weight: 7.9 oz (224 g) »  
Circumference: 7.5" - 8.0" » Max Length: 7.5"

GL22302      \$40.50

**Large**

Weight: 9.1 oz (258 g) »  
Circumference: 8.75" - 9.5" » Max Length: 8.0"

GL22304      \$40.50

**Medium**

Weight: 9.0 oz (255 g) »  
Circumference: 8.0" - 8.75" » Max Length: 7.75"

GL22303      \$40.50

**X-Large**

Weight: 10.1 oz (286 g) »  
Circumference: 9.5" - 10.5" » Max Length: 8.25"

GL22305      \$40.50

**XX-Large**

Weight: 10.5 oz (298 g) »  
Circumference: 10.5" - 12.0" » Max Length: 8.5"

GL22306      \$40.50



**PMI® Rope Tech Gloves - Black**

An all black version of the PMI® Rope Tech Glove. Superior protection without the compromise of dexterity.

**Key Features:** Synthetic leather (palm base layer) • Cowhide layer (finger wear points and palm) • ergonomically shaped for maximum protection and durability • Two-Way stretch spandex on top and fingers for greater mobility and breathability • Elastic cuff with pull-tab and Velcro® closure

**X-Small**

Weight: 7.9 oz (224 g) »  
Circumference: 7.0" - 7.5" » Max Length: 7.25"

GL22501      \$40.50

**Small**

Weight: 7.9 oz (224 g) »  
Circumference: 7.5" - 8.0" » Max Length: 7.5"

GL22502      \$40.50

**Medium**

Weight: 9.0 oz (255 g) »  
Circumference: 8.0" - 8.75" » Max Length: 7.75"

GL22503      \$40.50

**Large**

Weight: 9.1 oz (258 g) »  
Circumference: 8.75" - 9.5" » Max Length: 8.0"

GL22504      \$40.50

**X-Large**

Weight: 10.1 oz (286 g) »  
Circumference: 9.5" - 10.5" » Max Length: 8.25"

GL22505      \$40.50

**XX-Large**

Weight: 10.5 oz (298 g) »  
Circumference: 10.5" - 12.0" » Max Length: 8.5"

GL22506      \$40.50



# Gloves

Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education



## PMI® Lightweight Rappel Gloves - White/Tan

The original PMI rope work and rappel glove, a favorite among avid rope users. Lightweight, pliable goatskin provides excellent finger dexterity while two extra layers of cowhide across the palm maximize protection where you need it most.

**Key Features:** Soft leathers provide easy movement • No exposed seams on the palm

### Small

Weight: 4.7 oz (133 g) »  
Circumference: 7.5" - 8.0" » Max Length: 7.5"

GL22002 \$38.50

### Medium

Weight: 4.7 oz (133 g) »  
Circumference: 8.0" - 8.75" » Max Length: 7.75"

GL22003 \$38.50

### Large

Weight: 5.3 oz (150 g) »  
Circumference: 8.75" - 9.5" » Max Length: 8.0"

GL22004 \$38.50

### X-Large

Weight: 5.7 oz (162 g) »  
Circumference: 9.5" - 10.5" » Max Length: 8.25"

GL22005 \$38.50

### XX-Large

Weight: 5.7 oz (162 g) »  
Circumference: 10.5" - 12" » Max Length: 8.5"

GL22006 \$38.50

## PMI® Heavyweight Gloves - Tan

Split cowhide offers more finger protection and wear resistance for rope work and rappelling. Two extra layers of cowhide protect the main wear area.

**Key Features:** 3 layers of cowhide across the palm • PMI® Heavyweight gloves have thicker layers of leather for added protection from abrasion and puncture

### Small

Weight: 7.9 oz (224 g) »  
Circumference: 7.5" - 8.0" » Max Length: 7.5"

GL22100 \$31.75

### Medium

Weight: 9.3 oz (264 g) »  
Circumference: 8.0" - 8.75" » Max Length: 7.75"

GL22101 \$31.75

### Large

Weight: 9.5 oz (269 g) »  
Circumference: 8.75" - 9.5" » Max Length: 8.0"

GL22102 \$31.75

### X-Large

Weight: 9.6 oz (272 g) »  
Circumference: 9.5" - 10.5" » Max Length: 8.25"

GL22103 \$31.75



## PMI® Tactical Gloves - Black

This all black version of the PMI® Heavyweight glove is very popular for tactical rope operations.

**Key Features:** All Black for Tactical operations • 3 layers of cowhide across the palm • PMI® Heavyweight gloves have thicker layers of leather for added protection from abrasion and puncture

### Small

Weight: 7.9 oz (224 g) »  
Circumference: 7.5" - 8.0" » Max Length: 7.5"

GL22200 \$31.75

### Medium

Weight: 9.0 oz (255 g) »  
Circumference: 8.0" - 8.75" » Max Length: 7.75"

GL22201 \$31.75

### Large

Weight: 9.1 oz (258 g) »  
Circumference: 8.75" - 9.5" » Max Length: 8.0"

GL22202 \$31.75

### X-Large

Weight: 10.1 oz (286 g) »  
Circumference: 9.5" - 10.5" » Max Length: 8.25"

GL22203 \$31.75



PMI® Radio Harness

PMI® Radio Harness adjusts instantly to comfortably fit any size person, while the radio compartment also adjusts to fit all models of radios, old or new, and keeps antenna upright for optimum performance.

**Key Features:** Large capacity bellows cargo pouch • Pen pocket • Twin antenna keepers • Cordura® construction

*Weight: 9.5 oz (269 g)*

**Black**  
**SG51001 \$57.00**



**MADE IN THE USA**

PMI® Stealth Radio Harness

This no-bulk design stores all of your gear while maintaining a snug fit.

**Key Features:** Antenna keeper • Large pocket w/ Velcro® closure • Pen pocket • Side grommets for adjustable lanyard • Adjustable radio pocket • GPS/cell phone pocket • Reflective tabs • 1 snap lock buckle for an easy fit • 4 small adjustable buckles

*Width: 8.50" (21.6 cm) »*

*Length: 9.00" (22.9 cm) »*

*Weight: 6.4 oz (181 g) »*

*Torso Strap*

*Circumference: 48" (stretchy elastic)*

**Black**  
**SG51185 \$55.00**

# Clothing Accessories

## PMI® Uniform Belt

PMI's Uniform Belt comes in two different versions. The Basic model is one size fits most and can be trimmed by the user to fit. The second version has hook and loop tape to fasten down the free tail of the belt and is available in two size ranges. Not intended as an emergency harness but as a backup or "last resort".

### Basic Uniform Belt

Made of 1 3/4" black webbing with a 7000 lbf MBS.

<b>Standard: Waist up to 48"</b>	<b>9.0 oz (255 g)</b>	<b>Black</b> <b>SG51039</b>	<b>\$42.00</b>
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### Hook and Loop

Similar features as our basic uniform belt, but the hook and loop fastener holds the free end of the webbing against belt.

<b>Standard: Waist 27" - 40"</b>	<b>9.5 oz (269 g)</b>	<b>Black</b> <b>SG51139</b>	<b>\$43.75</b>
<b>Large: Waist 36" - 56"</b>	<b>10.5 oz (298 g)</b>	<b>SG51140</b>	<b>\$45.25</b>



## PMI® Crawler Elbow Pads

Designed by cavers, but great for confined space, these elbow pads are rugged while being comfortable enough to wear even against bare skin. Cut out flexion points won't bind or pinch.

	Length			
<b>X-Small</b>	<b>6" - 10"</b>	<b>6.4 oz (181 g)</b>	<b>SG51179</b>	<b>\$32.00</b>
<b>Small</b>	<b>8" - 12"</b>	<b>6.4 oz (181 g)</b>	<b>SG51176</b>	<b>\$32.00</b>
<b>Medium</b>	<b>11" - 15"</b>	<b>7.2 oz (204 g)</b>	<b>SG51177</b>	<b>\$32.00</b>
<b>Large</b>	<b>13" - 18"</b>	<b>7.2 oz (204 g)</b>	<b>SG51178</b>	<b>\$32.00</b>



## PMI® Crawler Knee Pads

The toughest knee pads you'll ever wear. Made from Cordura® packcloth and Neoprene padding, these knee pads have only soft protection - no hard shell - making them comfortable enough to wear all day but sturdy enough for the dirtiest job.

**Key Features:** Supplex nylon back • Tabbed webbing for a secure fit

**Length: 17.00" (43.2 cm) » Weight: 12.3 oz (349 g)**

**SG51130 \$51.25**

# Apparel and Logo Items

## PMI® Two Toned Cap

This 100% cotton cap will keep you cool after a day on the job.

**Key Features:** 100% cotton

	<b>Red/Black</b>	
<b>One Size</b>	<b>SP55131</b>	<b>\$7.25</b>



## PMI® Rope Key Chain

PMI has become known for our rope key chains, but this year they have a new twist. We have created a loop out of PMI rope sheath, along with a shrink tube end for durability.

	<b>Assorted Colors</b>	
<b>Static Rope</b>	<b>SP55017</b>	<b>\$1.50</b>
<b>Dynamic Rope</b>	<b>SP55018</b>	<b>\$1.50</b>



## PMI® Twill Cap

Heavyweight washed twill cap with Velcro® closure and PMI logo. Low profile fits perfectly under our Alto helmet. Choose from Gold or Pewter.

**Key Features:** 100% cotton washed twill

<b>Pewter</b>	<b>SP55058</b>	<b>\$7.25</b>
<b>Gold</b>	<b>SP55059</b>	<b>\$7.25</b>



## PMI® Rope Technician Shirt

The bright gold logo stands out on the graphite 100% cotton jersey.

**Key Features:** PMI logo on front • Rope Technician text on back • 100% cotton

	<b>Graphite</b>	
<b>Medium</b>	<b>SP55069</b>	<b>\$9.50</b>
<b>Large</b>	<b>SP55070</b>	<b>\$9.50</b>
<b>X-Large</b>	<b>SP55071</b>	<b>\$9.50</b>
<b>XX-Large</b>	<b>SP55072</b>	<b>\$11.50</b>

## PMI® Double Dry® Shirt

Moisture control is just the beginning. This Double Dry® Champion® T Shirt features odor resistance, too.

**Key Features:** Featherlight Double Dry® fabric lifts moisture away from your skin for cooler, drier comfort • Anti-microbial finish resists the growth of odor causing bacteria on the t-shirt itself • Three-needle contrast stitching trims raglan sleeves, cuffs and hem

	<b>Navy</b>	
<b>Medium</b>	<b>SP55118</b>	<b>\$19.00</b>
<b>Large</b>	<b>SP55119</b>	<b>\$19.00</b>
<b>X-Large</b>	<b>SP55120</b>	<b>\$19.00</b>
<b>XX-Large</b>	<b>SP55121</b>	<b>\$20.00</b>



Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education



# Hardware

Just as rope provides the foundation of your system, hardware drives the functionality. PMI selects the finest tools available, balancing the qualities of innovative design with reliability, and long term durability. Our commitment to relationships with quality manufacturers like SMC and heightec® are based on their commitment to the industry and, ultimately, to your safety. When you choose hardware from PMI, you are choosing the best.

## Carabiner Selection

Find the right carabiner that meets all of your work and rescue specifications.

CARABINER	TECHNICAL RESCUE	SEARCH AND RESCUE	FIRE RESCUE	WORK AT HEIGHT	CONFINED SPACE	CLIMBING/ MOUNTAINEERING	CAVING	GYM/CHALLENGE COURSE
PMI® Mate Screw Gate	X	X						
PMI® Mate TripLock™	X	X						X
PMI® Gator				X				X
SMC Lite Alloy Steel, Zinc Plated, NFPA, Locking Carabiner			X		X			
SMC Lite Stainless Steel, Locking Carabiner	X					X		X
SMC FP Lite Alloy	X		X	X	X			
SMC DualGuard	X		X					X
SMC TriGuard	X		X					X
SMC Kinetic	X	X	X			X		
SMC Kinetic Dual Lock	X	X	X		X	X		X
SMC Light D, Non-Locking		X				X	X	
SMC Mountain D, Non-Locking		X				X	X	
SMC Locking D	X	X	X			X	X	
SMC Oval, Non-Locking		X				X		
SMC XL Steel Locking D	X		X	X	X			X
SMC CrossOver	X	X	X	X	X	X	X	X
SMC Large Steel Locking	X		X		X			X
SMC Large Locking D, Aluminum	X	X				X		



**SMC CrossOver Series** **MADE IN THE USA**

These carabiners feature a new ergonomic single hand frame geometry allowing easy single hand operations. The CrossOvers have been specifically designed to meet all your work environment safety needs. Easy to use Dual or Triple Auto-Locking sleeves allow for single hand operations while working in mission critical environments. A traditional non-ANSI Screw-Lock version is also available.

**Key Features:** Choice of three gate options • Lightweight design • New frame and gate design

Width: 3.35" (8.5 cm) » Length: 5.53" (14.0 cm) »  
 Major Axis MBS: 40 kN (8992 lbf) »  
 Minor Axis MBS: 16 kN (3600 lbf) »  
 Gate Open MBS: 18 kN (4046 lbf) »  
 Gate Opening: 1.00" (25.4 mm)

**Tri-Lock (top)**

Blue 5.5 oz (156 g) SM205700N \$36.40  
 Black 5.5 oz (156 g) SM205707N \$36.40

**BERRY COMPLIANT** **COMPLIANT** NFPA 1983 (2012), G

**Dual-Lock (not shown)**

Blue 5.5 oz (156 g) SM205600N \$36.40  
 Black 5.5 oz (156 g) SM205607N \$36.40

**BERRY COMPLIANT** **COMPLIANT** NFPA 1983 (2012), G

**Screw-Lock (bottom)**

Blue 5.1 oz (145 g) SM205500N \$32.30  
 Black 5.1 oz (145 g) SM205507N \$32.30

**BERRY COMPLIANT** **COMPLIANT** NFPA 1983 (2012), G



**SMC Auto-Locking Lite Alloy Steel** **MADE IN THE USA**

A Lite Alloy steel carabiner featuring double or triple action gates. Easily opened with one hand, but once released, the gate closes to a fully locked position. The carabiner gate and sleeve are stainless steel for problem-free operation. An offset "D" shape provides a smooth transfer of the Mütner hitch when used as a belay and has ample volume to clip in large diameter ropes and over the rails of most litters.

**Key Features:** Lite Alloy Steel Body • Stainless Steel spring, pin, and sleeve

Width: 2.76" (7.0 cm) »  
 Length: 4.52" (11.5 cm) »  
 Weight: 7.0 oz (199 g) »  
 Major Axis MBS: 45 kN (10116 lbf) »  
 Minor Axis MBS: 12 kN (2697 lbf) »  
 Gate Open MBS: 11 kN (2473 lbf) »  
 Gate Opening: 0.88" (22.4 mm)

DualGuard SM102200N \$39.80  
 TriGuard SM102300N \$39.80

**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), G



**SMC FP Lite Alloy** **MADE IN THE USA**

The SMC FP Lite Alloy has been specifically designed for all your fall protection needs. Built from the ground up giving you the best of the best in carabiner functionality, the FP features an easy opening Auto-Locking gate. You don't have to sacrifice strength for weight when working at height all day long.

Width: 2.80" (7.1 cm) »  
 Length: 4.60" (11.7 cm) »  
 Weight: 8.9 oz (254 g) »  
 Major Axis MBS: 45 kN (10116 lbf) »  
 Minor Axis MBS: 16 kN (3600 lbf) »  
 Gate Open MBS: 11 kN (2473 lbf) »  
 Gate Opening: 1.00" (25.4 mm)

SM102100 \$31.60

**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), G ANSI Z359.12, 2009



# Carabiners and Connectors

## Carabiners for Fire Rescue

### SMC Kinetic Series

The SMC Kinetic Series has been specifically designed to meet all your personal protection requirements. Built from the ground up this carabiner gives you the best of the best in carabiner functionality. The Kinetic Series features a key lock nose, 0.98" gate opening, and screw or Auto-Locking gates. Weighing in at 2.8 oz. (Screw Gate) and 3.2 oz. (Twist Gate) you don't have to sacrifice strength for weight when working at height all day long.



**Key Features:** Lightweight • Single hand operation • Bright easy to see color • NFPA certified

*Width: 2.85" (7.2 cm) » Length: 4.57" (11.6 cm) » Major Axis MBS: 28 kN (6294 lbf) » Minor Axis MBS: 9 kN (2023 lbf) » Gate Open MBS: 8 kN (1798 lbf) » Gate Opening: 0.98" (24.9 mm)*

#### Twist-Lock (top)

Blue	3.2 oz (91 g)	SM103100N	\$19.95
Black	3.2 oz (91 g)	SM103107N	\$19.95
Orange	3.2 oz (91 g)	SM103104N	\$19.95

**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), T



#### Screw-Lock (bottom)

Blue	2.8 oz (79 g)	SM103000N	\$17.85
Black	2.8 oz (79 g)	SM103007N	\$17.85
Orange	2.8 oz (79 g)	SM103004N	\$17.85

**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), T



### SMC ANSI Safety Lock

The SMC ANSI Safety Lock is manufactured using High Strength Zinc Plated Alloy Steel to maximize the strength to weight ratio and is ideal for any situation where security is critical. Locking the sleeve on the gate rather than the body of the carabiner provides greater overall strength and smooth action.

*Width: 2.97" (7.5 cm) » Length: 5.04" (12.8 cm) » Weight: 11.5 oz (325 g) » Major Axis MBS: 46 kN (10341 lbf) » Minor Axis MBS: 16 kN (3600 lbf) » Gate Open MBS: 11 kN (2473 lbf) » Gate Opening: 1.20" (30.5 mm)*

**SM21501 \$53.80**

**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), G ANSI Z359.12, 2009





**SMC Large Steel**

Large size locking carabiners developed by SMC especially for the needs of the fire and rescue communities. Available in several different metal finishes, as well as in both NFPA (Class G) and non-NFPA versions. Black zinc coated models are ideal for tactical operations and stainless steel model is best for corrosive environments. Large gate opening fits easily over litter rails. All models have stainless gates and locking sleeves for greater strength and reliability.

**Key Features:** Original US made steel rescue carabiner • Large gate opening • Stainless steel gate and sleeve

**Standard**

Width: 2.97" (7.5 cm) » Length: 5.04" (12.8 cm) » Weight: 10.9 oz (309 g) » Major Axis MBS: 46 kN (10341 lbf) » Minor Axis MBS: 18 kN (4046 lbf) » Gate Open MBS: 11 kN (2473 lbf) » Gate Opening: 1.20" (30.5 mm)

<b>Stainless Steel</b>	<b>Natural</b>	<b>SM24001</b>	<b>\$59.30</b>
<b>Black Stainless Steel</b>	<b>Black</b>	<b>SM24007</b>	<b>\$63.70</b>

**BERRY COMPLIANT**

**NFPA Versions**

Width: 2.97" (7.5 cm) » Length: 5.04" (12.8 cm) » Weight: 10.6 oz (300 g) » Major Axis MBS: 46 kN (10341 lbf) » Minor Axis MBS: 16 kN (3600 lbf) » Gate Open MBS: 11 kN (2473 lbf) » Gate Opening: 1.20" (30.5 mm)

<b>NFPA Zinc Plated Steel</b>	<b>SM21001N</b>	<b>\$35.25</b>
<b>NFPA Black Zinc Plated Steel</b>	<b>SM21007N</b>	<b>\$39.80</b>

**NFPA - Heat Treated**

Width: 2.97" (7.5 cm) » Length: 5.04" (12.8 cm) » Weight: 10.6 oz (300 g) » Major Axis MBS: 65 kN (14613 lbf) » Minor Axis MBS: 16 kN (3600 lbf) » Gate Open MBS: 18 kN (4046 lbf) » Gate Opening: 1.20" (30.5 mm)

<b>NFPA Heat Treated Steel</b>	<b>SM21002</b>	<b>\$45.85</b>
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**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), G



**SMC Lite Steel**

SMC Lite Steel locking carabiners are for those situations where the high strength and durability of SMC Steel Carabiners is desired but the size and weight is not. Increasingly popular among cave and mountain rescuers for providing most of the benefits without the weight and bulk typically associated with steel biners.

**Key Features:** Stainless steel model available • Stainless steel gate and sleeve

**Standard - Stainless Steel**

Width: 2.70" (6.9 cm) » Length: 4.52" (11.5 cm) » Weight: 6.0 oz (170 g) » Major Axis MBS: 33 kN (7418 lbf) » Minor Axis MBS: 10 kN (2248 lbf) » Gate Open MBS: 8 kN (1798 lbf) » Gate Opening: 0.94" (23.9 mm)

<b>Stainless</b>	<b>SM100003</b>	<b>\$42.80</b>
<b>Black</b>	<b>SM100007</b>	<b>\$49.80</b>

**BERRY COMPLIANT**

**NFPA Versions - Lite Alloy Steel**

Width: 2.76" (7.0 cm) » Length: 4.52" (11.5 cm) » Weight: 6.6 oz (187 g) » Major Axis MBS: 45 kN (10116 lbf) » Minor Axis MBS: 12 kN (2697 lbf) » Gate Open MBS: 11 kN (2473 lbf) » Gate Opening: 0.94" (23.9 mm)

<b>Bright</b>	<b>SM100001N</b>	<b>\$34.85</b>
<b>Black</b>	<b>SM100007N</b>	<b>\$37.80</b>

**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), G



**SMC Extra Large Steel**



Offset "D" shape fits easily over a standard 1.25" ladder rung, making this carabiner an indispensable tool for the rescue professional. This product is more suited for extra wide clipping than for tight rigging.

**Key Features:** Stainless steel gate and sleeve

Width: 3.50" (8.9 cm) » Length: 5.70" (14.5 cm) » Weight: 12.2 oz (346 g) » Major Axis MBS: 54 kN (12139 lbf) » Minor Axis MBS: 13 kN (2922 lbf) » Gate Open MBS: 14 kN (3147 lbf) » Gate Opening: 1.45" (36.0 mm)

<b>SM20003N</b>	<b>\$41.85</b>
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**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), G

# Carabiners and Connectors

*Carabiners for Fire Rescue*


## SMC Aluminum Locking D **MADE IN THE USA**

This carabiner sets the standard in climbing, mountaineering, and rescue applications. Extremely lightweight, it offers high strength and a large gate opening for functional versatility. The locking sleeve engages the gate rather than the frame to prevent jamming.

**Key Features:** Modified "D" shape • Locking screw gate • Aluminum • Stainless steel springs and pins • NFPA 1983 (2012) models available

### Standard




*Width: 2.56" (6.5 cm) » Length: 4.37" (11.1 cm) »  
Weight: 2.6 oz (74 g) » Major Axis MBS: 27 kN (6070 lbf) »  
Minor Axis MBS: 7 kN (1574 lbf) » Gate Open MBS: 7 kN (1574 lbf) »  
Gate Opening: 0.82" (20.8 mm)*

<b>Bright</b>	<b>SM18501</b>	<b>\$16.65</b>	
<b>Black</b>	<b>SM18502</b>	<b>\$18.50</b>	

**BERRY COMPLIANT**

### NFPA Versions

*Width: 2.56" (6.5 cm) » Length: 4.37" (11.1 cm) » Weight: 2.6 oz (74 g) »  
Major Axis MBS: 27 kN (6070 lbf) » Minor Axis MBS: 7 kN (1574 lbf) »  
Gate Open MBS: 7 kN (1574 lbf) » Gate Opening: 0.82" (20.8 mm)*

<b>Bright</b>	<b>SM18501N</b>	<b>\$19.90</b>	
<b>Black</b>	<b>SM18502N</b>	<b>\$22.30</b>	
<b>Red</b>	<b>SM18505N</b>	<b>\$22.30</b>	

**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), T



### COMPLIANCE

Compliance is important: that's why PMI strives to offer products to meet existing NFPA, ANSI, CE, and other standards.

For those working in industrial fall protection, we offer a variety of lanyards and connectors that are compliant to the current ANSI Z359.12, 2009 standard.

Although OSHA regulations have not yet been updated to reflect this change, the 2007 ANSI Z359.1 standard now requires the gate to withstand 3600 pounds force in all directions. Longitudinal strength requirement remains 5000 pounds.

### GATES

Carabiner gates are available in Non-Locking, Manual Locking, and Auto-Locking varieties.

Non-Locking close with a simple spring action and can easily be opened with just a push against the hinged gates. They are NOT recommended for critical application use.

Manual Locking are most often locked with a screw gate sleeve. It requires the user to screw the sleeve closed to lock the gate which then prevents the gate from swinging open accidentally pressed on.

Auto-Locking gates have a spring loaded locking sleeve that turns into place once the gate swings shut. There are two common styles, one that simply twists the sleeve to unlock and then the gate can swing open. The other style requires 3 steps to lift up or pull down on the locking sleeve prior to twisting it to the unlocked position allowing the gate to be swung open.



PMI® Gator Steel

Unique shape gives this large steel Auto-Locking carabiner a large working area for multiple pieces of gear. Meets OSHA's requirement for Auto-Locking carabiners - gate is opened by pulling the sleeve toward the hinge and then twisting it. Made in UK.

**Key Features:** Rounded nose • Works well with Münter hitches  
*Width: 3.25" (8.3 cm) » Length: 4.90" (12.4 cm) » Weight: 10.1 oz (285 g) » Major Axis MBS: 40 kN (8992 lbf) » Minor Axis MBS: 10 kN (2248 lbf) » Gate Open MBS: 12 kN (2698 lbf) » Gate Opening: 0.90" (23.0 mm)*

HD26047 \$35.95

COMPLIANT EN 362 ANSI Z359.1



SMC ANSI Safety Lock



The SMC ANSI Safety Lock is manufactured using High Strength Zinc Plated Alloy Steel to maximize the strength to weight ratio and is ideal for any situation where security is critical. Locking the sleeve on the gate rather than the body of the carabiner provides greater overall strength and smooth action.

*Width: 2.97" (7.5 cm) » Length: 5.04" (12.8 cm) » Weight: 11.5 oz (325 g) » Major Axis MBS: 46 kN (10341 lbf) » Minor Axis MBS: 16 kN (3600 lbf) » Gate Open MBS: 11 kN (2473 lbf) » Gate Opening: 1.20" (30.5 mm)*

SM21501 \$53.80

BERRY COMPLIANT

COMPLIANT NFPA 1983 (2012), G ANSI Z359.12, 2009



SMC FP Lite Alloy



The SMC FP Lite Alloy has been specifically designed for all your fall protection needs. Built from the ground up giving you the best of the best in carabiner functionality, the FP features an easy opening Auto-Locking gate. You don't have to sacrifice strength for weight when working at height all day long.

*Width: 2.80" (7.1 cm) » Length: 4.60" (11.7 cm) » Weight: 8.9 oz (254 g) » Major Axis MBS: 45 kN (10116 lbf) » Minor Axis MBS: 16 kN (3600 lbf) » Gate Open MBS: 11 kN (2473 lbf) » Gate Opening: 1.00" (25.4 mm)*

SM102100 \$31.60

BERRY COMPLIANT

COMPLIANT NFPA 1983 (2012), G ANSI Z359.12, 2009



# Carabiners and Connectors

*Carabiners for All Purpose Use*

 **MADE IN THE USA**

## SMC Large Steel

Large size locking carabiners developed by SMC especially for the needs of the fire and rescue communities. Available in several different metal finishes, as well as in both NFPA (Class G) and non-NFPA versions. Black zinc coated models are ideal for tactical operations and stainless steel model is best for corrosive environments. Large gate opening fits easily over litter rails. All models have stainless gates and locking sleeves for greater strength and reliability.

**Key Features:** Original US made steel rescue carabiner • Large gate opening • Stainless steel gate and sleeve

### Standard

*Width: 2.97" (7.5 cm) » Length: 5.04" (12.8 cm) » Weight: 10.9 oz (309 g) » Major Axis MBS: 46 kN (10341 lbf) » Minor Axis MBS: 18 kN (4046 lbf) » Gate Open MBS: 11 kN (2473 lbf) » Gate Opening: 1.20" (30.5 mm)*

<b>Stainless Steel</b>	<b>Natural</b>	<b>SM24001</b>	<b>\$59.30</b>
<b>Black Stainless Steel</b>	<b>Black</b>	<b>SM24007</b>	<b>\$63.70</b>

**BERRY COMPLIANT**

### NFPA Versions

*Width: 2.97" (7.5 cm) » Length: 5.04" (12.8 cm) » Weight: 10.6 oz (300 g) » Major Axis MBS: 46 kN (10341 lbf) » Minor Axis MBS: 16 kN (3600 lbf) » Gate Open MBS: 11 kN (2473 lbf) » Gate Opening: 1.20" (30.5 mm)*

<b>NFPA Zinc Plated Steel</b>	<b>SM21001N</b>	<b>\$35.25</b>
<b>NFPA Black Zinc Plated Steel</b>	<b>SM21007N</b>	<b>\$39.80</b>

### NFPA - Heat Treated

*Width: 2.97" (7.5 cm) » Length: 5.04" (12.8 cm) » Weight: 10.6 oz (300 g) » Major Axis MBS: 65 kN (14613 lbf) » Minor Axis MBS: 16 kN (3600 lbf) » Gate Open MBS: 18 kN (4046 lbf) » Gate Opening: 1.20" (30.5 mm)*

<b>NFPA Heat Treated Steel</b>	<b>SM21002</b>	<b>\$45.85</b>
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**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), G

## SMC Carabiner Captive Eye Clip

Turn any SMC carabiner into a Captive Eye carabiner. Made from strong stainless steel, the SMC Captive Eye Wire Keeper, when installed correctly will hold your rope in place on the carabiner. Comes in two sizes to fit any SMC Carabiner.

**Note:** Small Clip fits all SMC Standard Aluminum, Lite Alloy, Lite Steel series carabiners. Large Clip fits all SMC Large Aluminum, Large Stainless Steel and Large Steel series carabiners

<b>Small</b>	<b>SM11803</b>	<b>\$3.10</b>
<b>Large</b>	<b>SM11804</b>	<b>\$3.10</b>

 **MADE IN THE USA**

## SMC Lite Steel

SMC Lite Steel locking carabiners are for those situations where the high strength and durability of SMC Steel Carabiners is desired but the size and weight is not. Increasingly popular among cave and mountain rescuers for providing most of the benefits without the weight and bulk typically associated with steel biners.

**Key Features:** Stainless steel model available • Stainless steel gate and sleeve

### Standard - Stainless Steel

*Width: 2.70" (6.9 cm) » Length: 4.52" (11.5 cm) » Weight: 6.0 oz (170 g) » Major Axis MBS: 33 kN (7418 lbf) » Minor Axis MBS: 10 kN (2248 lbf) » Gate Open MBS: 8 kN (1798 lbf) » Gate Opening: 0.94" (23.9 mm)*

<b>Stainless</b>	<b>SM100003</b>	<b>\$42.80</b>
<b>Black</b>	<b>SM100007</b>	<b>\$49.80</b>

**BERRY COMPLIANT**

### NFPA Versions - Lite Alloy Steel

*Width: 2.76" (7.0 cm) » Length: 4.52" (11.5 cm) » Weight: 6.6 oz (187 g) » Major Axis MBS: 45 kN (10116 lbf) » Minor Axis MBS: 12 kN (2697 lbf) » Gate Open MBS: 11 kN (2473 lbf) » Gate Opening: 0.94" (23.9 mm)*

<b>Bright</b>	<b>SM100001N</b>	<b>\$34.85</b>
<b>Black</b>	<b>SM100007N</b>	<b>\$37.80</b>

**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), G



The Captive Eye Clip is easy to add or remove on any SMC Carabiner.



**SMC Aluminum Locking D** **MADE IN THE USA**

This carabiner sets the standard in climbing, mountaineering, and rescue applications. Extremely lightweight, it offers high strength and a large gate opening for functional versatility. The locking sleeve engages the gate rather than the frame to prevent jamming.

**Key Features:** Modified "D" shape • Locking screw gate • Aluminum • Stainless steel springs and pins • NFPA 1983 (2012) models available

**Standard**

Width: 2.56" (6.5 cm) » Length: 4.37" (11.1 cm) »  
 Weight: 2.6 oz (74 g) » Major Axis MBS: 27 kN (6070 lbf) »  
 Minor Axis MBS: 7 kN (1574 lbf) » Gate Open MBS: 7 kN (1574 lbf) »  
 Gate Opening: 0.82" (20.8 mm)

Bright	SM18501	\$16.65	
Black	SM18502	\$18.50	

**BERRY COMPLIANT**

**NFPA Versions**

Width: 2.56" (6.5 cm) » Length: 4.37" (11.1 cm) » Weight: 2.6 oz (74 g) »  
 Major Axis MBS: 27 kN (6070 lbf) » Minor Axis MBS: 7 kN (1574 lbf) »  
 Gate Open MBS: 7 kN (1574 lbf) » Gate Opening: 0.82" (20.8 mm)

Bright	SM18501N	\$19.90	
Black	SM18502N	\$22.30	
Red	SM18505N	\$22.30	

**BERRY COMPLIANT**

**COMPLIANT** NFPA 1983 (2012), T



**SMC LARGE D - ALUMINUM** **MADE IN THE USA**

Specially designed for rescue work, the large "D" fits easily over litter rails and has the strength to hold up to any job.

Width: 2.97" (7.5 cm) » Length: 5.04" (12.8 cm) » Weight: 3.8 oz (108 g) »  
 Major Axis MBS: 34 kN (7643 lbf) » Minor Axis MBS: 11 kN (2473 lbf) »  
 Gate Open MBS: 10 kN (2248 lbf) » Gate Opening: 1.20" (30.5 mm)

Bright	SM25001	\$33.65	
Black	SM25002	\$37.80	

**BERRY COMPLIANT**



**SMC Oval** **MADE IN THE USA**

Keep your gear in order with the traditional SMC Oval. A traditional biner, an excellent choice.

**Key Features:** Aluminum • Non-Locking

Width: 2.21" (5.6 cm) » Length: 4.26" (10.8 cm) » Weight: 2.2 oz (63 g) »  
 Major Axis MBS: 20 kN (4496 lbf) » Minor Axis MBS: 7 kN (1574 lbf) »  
 Gate Open MBS: 6 kN (1349 lbf) » Gate Opening: 0.71" (18.0 mm)

Bright	SM19001	\$7.95	
Black	SM19002	\$9.70	

**BERRY COMPLIANT**



# Carabiners and Connectors

## Carabiners for All Purpose Use



### SMC Mountain D **MADE IN THE USA**

This easy handling carabiner is a must for all around use. Large enough to organize and manage your rigging.

**Key Features:** Aluminum • Non-Locking • Available in 5 colors

*Width: 2.56" (6.5 cm) » Length: 4.37" (11.1 cm) »*

*Weight: 2.4 oz (68 g) » Major Axis MBS: 27 kN (6070 lbf) »*

*Minor Axis MBS: 7 kN (1574 lbf) » Gate Open MBS: 7 kN (1574 lbf) »*

*Gate Opening: 0.95" (24.1 mm)*

**Bright SM18001**

**\$13.45**

**Black SM18002**

**\$17.25**

**BERRY COMPLIANT**



Quality Gear for Life

### SMC Light D

For an easy clip, the Light "D" has a sleek low profile nose for that quick capture.

**Key Features:** Aluminum • Non-Locking • Available in 5 colors

*Width: 2.21" (5.6 cm) » Length: 3.96" (10.1 cm) »*

*Weight: 1.7 oz (48 g) » Major Axis MBS: 20 kN (4496 lbf) »*

*Minor Axis MBS: 8 kN (1800 lbf) » Gate Open MBS: 5 kN (1124 lbf) »*

*Gate Opening: 0.74" (18.8 mm)*

**Bright SM17001**

**\$10.50**

**Black SM17002**

**\$13.25**

**BERRY COMPLIANT**



### PMI® Mate II HMS **MADE IN THE USA**

Performance meets fine design in this new, improved version of the PMI® Mate carabiner. You'll appreciate the clean, smooth action and exceptional quality of this HMS shaped carabiner. An excellent choice for Münter hitch rappels and belaying.

**Key Features:** Anodized aluminum frame • Key Lock • Screw gate

*Width: 3.00" (7.6 cm) » Length: 4.60" (11.7 cm) » Weight: 3.2 oz (91 g) »*

*Major Axis MBS: 24 kN (5395 lbf) » Minor Axis MBS: 7 kN (1574 lbf) »*

*Gate Open MBS: 7 kN (1574 lbf) » Gate Opening: 1.00" (25.4 mm)*

**HD26138**

**\$21.75**



### PMI® Mate II TripLock™ **MADE IN THE USA**

OSHA compliance is a snap with this ultra-safety-conscious version of PMI's newly redesigned Mate II HMS carabiner. Auto-Locking mechanism requires a three-step action to unlock.

**Key Features:** Anodized aluminum frame • Key Lock • Auto-Locking gate

*Width: 3.00" (7.6 cm) » Length: 4.60" (11.7 cm) » Weight: 3.2 oz (91 g) »*

*Major Axis MBS: 27 kN (6592 lbf) » Minor Axis MBS: 7 kN (1574 lbf) »*

*Gate Open MBS: 7 kN (1574 lbf) » Gate Opening: 1.00" (25.4 mm)*

**HD26137**

**\$25.00**





**New!** PMI® Paragon Twist-Lock

The ergonomic shape of this aluminum screw gate connector fits nicely in the hand and is easy to open. The wide gate opening and maximum capacity loading area make this a great all-around carabiner.

**Key Features:** Works well with munter hitch or clove hitch • Generous loading surface • Ergonomic shape • Manually-locking gate

Width: 2.60" (6.6 cm) » Length: 4.21" (10.7 cm) » Weight: 2.3 oz (65 g) » Major Axis MBS: 26 kN (5845 lbf) » Minor Axis MBS: 8 kN (1798 lbf) » Gate Open MBS: 7 kN (1574 lbf) » Gate Opening: 0.81" (20.7 mm)

HD26258 \$15.25

COMPLIANT CE EN362-B EN12275 UIAA

**New!** PMI® Paragon Auto-Lock

The ergonomic shape of this auto-locking connector offers a wide gate opening and offers maximum capacity in the loading area, while the autolocking gate maintains maximum security.

**Key Features:** Works well with munter hitch or clove hitch • Generous loading surface • Ergonomic shape • Auto-locking gate

Width: 2.60" (6.6 cm) » Length: 4.21" (10.7 cm) » Weight: 2.3 oz (65 g) » Major Axis MBS: 26 kN (5845 lbf) » Minor Axis MBS: 8 kN (1798 lbf) » Gate Open MBS: 7 kN (1574 lbf) » Gate Opening: 0.81" (20.7 mm)

HD26258 \$15.95

COMPLIANT CE EN362-B EN12275 UIAA



**New!** PMI® Prosaic

There's nothing better than a symmetrical carabiner for rigging pulleys in haul systems, and with other components that feature a swiveling side plate. This full strength oval carabiner keeps things smooth with a keylock nose, and offers ultimate security with its triple action locking gate.

**Key Features:** Keylock design • Triple action locking gate

Width: 2.40" (6.1 cm) » Length: 4.33" (11.0 cm) » Weight: 2.9 oz (82 g) » Major Axis MBS: 22 kN (5000 lbf) » Minor Axis MBS: 8 kN (1798 lbf) » Gate Open MBS: 8 kN (1798 lbf)

HD26259 \$18.00

COMPLIANT CE EN362-B EN12275 UIAA



## SCREW LINKS

Screw links stand up to multi-directional forces better than carabiners and allow ample room for multiple pieces of gear to be attached. Ideal harness attachment in ascending systems or for joining anchor straps.

**Note:** Links are stamped with a Working Load Limit (WLL) that is about 1/5 of its rated breaking strength.



Delta		Height	Width	Length	Gate Opening	MBS	Weight	
7 mm Galvanized Steel	HD26079	0.28" (7.0 mm)	2.00" (5.1 cm)	2.48" (6.3 cm)	11/32" (8.5 mm)	20 kN (4400 lbf)	2.0 oz (58 g)	\$7.60
10 mm Aluminum	HD26023	0.44" (10.0 mm)	2.61" (6.6 cm)	3.42" (8.7 cm)	15/32" (12.0 mm)	17 kN (3860 lbf)	2.0 oz (55 g)	\$25.60
10 mm Galvanized Steel	HD26044	0.44" (10.0 mm)	2.61" (6.6 cm)	3.42" (8.7 cm)	15/32" (12.0 mm)	42 kN (9525 lbf)	5.0 oz (153 g)	\$11.70
Half-Moon		Height	Width	Length	Gate Opening	MBS	Weight	
10 mm Galvanized Steel	HD26061	0.44" (10.0 mm)	2.75" (7.0 cm)	3.39" (8.6 cm)	13/32" (10.0 mm)	44 kN (9920 lbf)	5.0 oz (153 g)	\$17.80
Oval		Height	Width	Length	Gate Opening	MBS	Weight	
4 mm Galvanized Steel	HD26231	0.16" (4.0 mm)	0.92" (2.3 cm)	2.09" (5.3 cm)	29/64" (11.4 mm)	7.9 kN (1765 lbf)	0.5 oz (15 g)	\$5.00
5 mm Stainless Steel	HD26150	0.19" (5.0 mm)	1.00" (2.5 cm)	1.95" (4.9 cm)	1/4" (6.5 mm)	22 kN (5000 lbf)	1.0 oz (21 g)	\$13.20
7 mm Galvanized Steel	HD26045	0.28" (7.0 mm)	1.25" (3.2 cm)	2.61" (6.6 cm)	11/32" (8.5 mm)	27 kN (6050 lbf)	2.0 oz (51 g)	\$7.20
10 mm Galvanized Steel	HD26022	0.44" (10.0 mm)	1.75" (4.4 cm)	3.50" (8.9 cm)	15/32" (12.0 mm)	54 kN (12125 lbf)	5.0 oz (137 g)	\$11.50



Photo TranSystems



SMC 3" Prusik Minding Pulley



The unique shape of SMC's aluminum side plates allow the efficient use of Prusik hitches as a belay or progress capture device. Constructed with a 3" diameter sheave running on a high efficiency ball bearing. Low profile fasteners help eliminate the possibility of the pulley snagging. Max rope diameter 13 mm.

**Key Features:** Ball bearing • Large top hole easily accepts 3 large carabiners • Designed for 11 mm to 13 mm ropes • Precision machined aluminum side plates and 2.97" sheaves. Sealed bearings • Double pulleys include a becket



	Part No	Tread	Weight	MBS	
Single - Red	SM158000N	2.46"	12.5 oz (354 g)	38 kN (8542 lbf)	\$88.55
Double - Gold	SM158500N	2.46"	1.30 lbs (590 g)	48 kN (10790 lbf)	\$131.85

BERRY COMPLIANT

COMPLIANT

NFPA 1983 (2012), G

SMC 2" Prusik Minding Pulley



This mid-sized PMP is the perfect choice for rigging with 11 mm (7/16") rope or when you don't have room for a 3" PMP. Pulley will accommodate up to 13 mm rope.

**Key Features:** Precision machined aluminum side plates and 2" sheaves • Sealed Bearings • Double pulleys include a becket



	Part No	Tread	Weight	MBS	
Single - Green/Black	SM152700N	1.49"	6.3 oz (179 g)	36 kN (8093 lbf)	\$64.25
Single - Black	SM152701N	1.49"	6.3 oz (179 g)	36 kN (8093 lbf)	\$64.25
Double - Green/Grey	SM152800N	1.49"	10.4 oz (295 g)	46 kN (10341 lbf)	\$100.45
Double - Black	SM152801N	1.49"	10.4 oz (295 g)	46 kN (10341 lbf)	\$100.45

BERRY COMPLIANT

COMPLIANT

NFPA 1983 (2012), G

NFPA

How NFPA Certification Works:

Ropes and components that meet the NFPA's 1983 Standard for Fire Service Life Safety Rope and Equipment for Emergency Services 2012 Edition also carry special markings for class of intended use. The three major classes are: Escape, Technical, and General. Each of these classes have different performance requirements when the product is tested for certification.

Most ropes and auxiliary equipment products covered by NFPA 1983 use the Escape, Technical, and General classifications. Product categories that do not use these nomenclatures include Harnesses, Victim Extrication Devices, Water Rescue Throwlines, and Moderate Elongation Laid Life Safety Rope. All of these exceptions have their own specific classes of use or are for a singular, specific type of use.

Escape use products are marked with the words "Escape-Use"; where space is limited on the product, this class can be designated simply by the letter "E".

\*Technical use products are marked with the words "Technical-Use"; where space is limited on the product, this class can be designated simply by the letter "T".

General use products are marked with the word "General-Use"; where space is limited on the product, this class can be designated simply by the letter "G".

For example: Carabiners are marked, "Meets NFPA 1983, 2012 ED." They also must carry the name or logo of the manufacturer, along with the label of the third party that certifies that the product meets the standard. NFPA-certified carabiners also have either a T or a G stamped into the frame. The letter T indicates that the carabiner is for technical users and designed for when actual system loading is well known and within the performance standards of a T carabiner. The letter G indicates that the carabiner is for general rescue use as per the performance standards in NFPA 1983.

\*Note: in editions of NFPA 1983 prior to 2012 the T rating was known as L. The performance requirements have not changed significantly, only the name. Many users felt the term "Technical" was more accurately descriptive than the term "Light". Any NFPA 1983 - 2006 edition certified products manufactured after January 2, 2013 can not be sold by the manufacturer. Users do not need to replace L equipment in good service condition and are free to buy L marked equipment from dealers until L marked products are no longer in dealer's stock.

Rope  
Webbing and Cordage  
Personal Gear  
Hardware  
Solutions and Kits  
Patient Care  
Logistics and Support Gear  
Training and Education

## Pulleys

## Pulleys for Fire Rescue

## SMC Micro Prusik Minding Pulley



Just the thing for smaller ropes and lighter loads, SMC's Micro PMP's are ideal for building a mini haul rig or anywhere that a compact lightweight system is needed. Double version is designed with a becket to accommodate compound and complex pulley systems. Max rope diameter 13 mm.

**Key Features:** Precision machined aluminum side plates and 1.37" sheaves • Sealed Ball Bearings • Double pulleys include a becket

	Part No	Tread	Weight	MBS	
Single - Red	SM153000N	1.00"	3.5 oz (99 g)	22 kN (5000 lbf)	\$42.80
Single - Black	SM153001N	1.00"	3.5 oz (99 g)	22 kN (5000 lbf)	\$42.80
Double - Gold	SM154000N	1.00"	5.8 oz (164 g)	40 kN (8992 lbf)	\$84.50
Double - Black	SM154001N	1.00"	5.8 oz (164 g)	40 kN (8992 lbf)	\$84.50

BERRY COMPLIANT

COMPLIANT

NFPA 1983 (2012), T



Quality Gear for Life

## SMC Advance Tech Mate



The new SMC Advance Tech Mate is a double pulley specifically designed to work with the new Advance Tech HX Pulley in a mini haul system. This new pulley frame design is ideal for using in a compact haul kit. Integrated stainless steel pins help retain the rope when a rigged system is pre-packed in order that the system can be pulled out and used immediately.

**Key Features:** Made from high quality aluminum • Anodized to help prevent corrosion • Supports rope diameters from 7 mm up to 12.5 mm • Stainless steel retaining pins • NFPA 1983 (2012) T • Made in the USA  
Height: 1.81" (4.6 cm) » Width: 2.40" (6.1 cm) » Length: 2.97" (7.5 cm) » Weight: 5.4 oz (154 g) » MBS: 34 kN (7644 lbf) » Tread: 1.00" » Sheave: 1.37" Aluminum

Orange/Grey SM154801N \$78.80

BERRY COMPLIANT

COMPLIANT

NFPA 1983 (2012), T



## SMC Advance Tech HX Pulley



The new Advance Tech HX is ideal for all rescue applications where a small mechanical advantage system is being used. The HX is a double pulley with an integrated cam that provides immediate progress capture.

**Key Features:** Made from high quality aluminum • Anodized to help prevent corrosion • Supports rope diameters from 7 mm up to 12.5 mm • Stainless steel pins retain the rope when a rigged system is pre-packed • Made in the USA

Height: 1.97" (5.0 cm) » Width: 2.74" (6.9 cm) » Length: 5.08" (12.9 cm) » Weight: 9.5 oz (270 g) » MBS: 34 kN (7644 lbf) » Tread: 1.00" » Sheave: 1.37" Aluminum

Orange/Grey SM154900N \$141.80

BERRY COMPLIANT

COMPLIANT

NFPA 1983 (2012), T



SMC/RA Stainless Steel Pulleys



Based on Russ Anderson's original design, these pulleys are essential equipment for the serious rigger. Rotating side plates allow attachment of the pulley anywhere on the rope and the 3" and 4" models will accept multiple carabiners. Axle nuts are marked with a blue witness line to indicate if the axle nut has been turned or tampered with.

**Key Features:** Stainless steel side plates



Single	Part No	Tread	Max Rope	Weight	MBS	
2" NFPA-T, Oilite	SM150000	1.49"	13 mm	8.6 oz (244 g)	29 kN (6519 lbf)	\$47.00
2" NFPA-T, Ball	SM150500	1.49"	13 mm	8.6 oz (244 g)	29 kN (6519 lbf)	\$68.15
3" NFPA-G, Oilite	SM151000	2.34"	16 mm	1.00 lbs (454 g)	51 kN (11465 lbf)	\$85.45
4" NFPA-G, Oilite	SM152000	3.33"	16 mm	1.44 lbs (652 g)	51 kN (11465 lbf)	\$96.15
4" NFPA-G, Ball	SM152500	3.33"	16 mm	1.44 lbs (652 g)	51 kN (11465 lbf)	\$126.05
Double	Part No	Tread	Max Rope	Weight	MBS	
2" NFPA-T, Oilite	SM155000	1.49"	13 mm	1.01 lbs (460 g)	41 kN (9217 lbf)	\$81.70
2" NFPA-T, Ball	SM155500N	1.49"	13 mm	1.06 lbs (482 g)	41 kN (9217 lbf)	\$107.45
4" NFPA-G, Oilite	SM157000	3.33"	16 mm	2.52 lbs (1.142 kg)	63 kN (14163 lbf)	\$190.95
4" NFPA-G, Ball	SM157500N	3.33"	16 mm	2.52 lbs (1.142 kg)	63 kN (14163 lbf)	\$216.80

**BERRY COMPLIANT**

**COMPLIANT**

NFPA 1983 (2012), T,G

SMC Kootenay HX Pulley



The Kootenay HX from SMC is the most advanced Knot Passing Pulley on the market. This is an entirely new and more compact design and lives up to its "HX" (High Strength) name as the lightest, strongest, most efficient, and durable pulley of its kind available. Sealed ball bearings provide optimal efficiency and help to reduce the performance-robbing resistance that is inherent in most multiple component systems. Adding to its versatility, the Kootenay HX may also serve as an edge roller for rope protection.

**Key Features:** Sealed Ball bearings • Solid aluminum side plates • High-strength aluminum 3.46" sheave • Primary carabiner hole accepts numerous rescue carabiners • Secondary carabiner holes for use with tag or belay lines • Two quick-release pins included for conversion to a high-strength tie off • For use with 10 mm to 13 mm rope

Height: 3.40" (8.6 cm) » Width: 4.34" (11.0 cm) » Length: 8.67" (21.6 cm) »  
Weight: 1.65 lbs (750 g) » MBS: 38 kN (8542 lbf)

Gold SM125500 \$206.55

**BERRY COMPLIANT**

**COMPLIANT**

NFPA 1983 (2012), G



# Pulleys

Pulleys for All Purpose Use

## SMC JR Pulley

These SMC Pulleys are the mini of minis. Efficient and lightweight, its solid strength and efficiency tests to greater strengths than other pulleys in the same size and price range. It has the required prusik minding capability for use in a haul system (JRB Pulleys are now incorporated in our JR Haul System Kit (page 91). A 1.20" nylon sheave and zinc-coated axle make any system run smooth. Simple to use and easy to carry into the field. Max rope diameter for the JR and JRB is 9 mm. The JR and the JRB pulleys are double pulleys.

**Key Features:** Nylon sheave • Precision machined aluminum side plates • Zinc coated axle • Rotating side plates • JR Available with or without a becket • JRB becket MBS: 13 kN (2298 lbf)



	Part No	Tread	Weight	MBS	
JR Blue (shown on the right w/o becket)	SM159300	0.83"	3.2 oz (89 g)	22 kN (5000 lbf)	\$34.50
JR Black (not shown)	SM159301	0.83"	3.2 oz (89 g)	22 kN (5000 lbf)	\$34.50
JRB Blue (shown on the right with becket)	SM159200	0.83"	3.3 oz (94 g)	22 kN (5000 lbf)	\$34.50
JRB Black (not shown)	SM159201	0.83"	3.3 oz (94 g)	22 kN (5000 lbf)	\$34.50

**BERRY COMPLIANT** **COMPLIANT** UIAA 127 EN 12278

Hardware



## SMC CRx Pulley

The new SMC CRx (Crevasse Rescue) Pulley is a full featured pulley specifically designed to be diminutive in size and weight, yet extremely strong and efficient. This new pulley is ideal for use in a 2-to-1 C-system or as a 3-to-1 Z-system and includes prusik minding capability. Ideal for rescue use by those who demand the lightest, strongest pulley available. Easy to use and easy to carry, this pulley also has color-contrasting aluminum rotating side plates for simple rope insertion and removal.

**Key Features:** Made from high quality aluminum • Anodized side plates help prevent corrosion • Supports rope diameters up to 1/2 inch (13 mm) • Stainless steel rivet axle • Nylon sheave • Made in the USA

Height: 1.07" (2.7 cm) » Width: 1.75" (4.4 cm) » Length: 2.70" (6.9 cm) » Weight: 1.8 oz (52 g) » MBS: 22 kN (5000 lbf)

Blue	SM157300	\$15.40
Orange	SM157303	\$15.40

**BERRY COMPLIANT** **COMPLIANT** UIAA 127 EN 12278

Solutions and Kits

## SMC Swiftwater Pulley

In recognition of the unique requirements found in swiftwater rescue, this aluminum pulley features a series of holes in the side plates to help to minimize any hydroplaning.

**Key Features:** Lightweight aluminum • 2" Aluminum sheave • Sealed bearings • Accepts ropes up to 1/2"

Height: 1.37" (3.5 cm) » Width: 3.00" (7.6 cm) » Length: 4.00" (10.2 cm) » Weight: 6.0 oz (170 g) » MBS: 34 kN (7786 lbf)

Red	SM147000	\$42.80
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**BERRY COMPLIANT** **COMPLIANT** UIAA 127 EN 12278



Patient Care

Logistics and Support Gear

Training and Education

SMC TR Pulley



The TR Pulley is strong, reliable compact, and lightweight. It is reasonably priced but doesn't sacrifice efficiency. Great performance for its size and cost. The TR Pulley has a true Oilite Bearing on a zinc coated axle for reliable performance.

**Key Features:** Lightweight aluminum • 1.20" Aluminum sheave • Oilite bearings • Accepts ropes up to 1/2"

Height: 1.07" (2.7 cm) » Width: 1.75" (4.4 cm) »

Length: 3.00" (7.6 cm) » Weight: 2.3 oz (66 g) »

MBS: 26 kN (5845 lbf)

Green/Grey SM159500 \$35.25

BERRY COMPLIANT



**New!** Climbing Technology RolINLock

Ultra-light pulley / rope clamp (only 80 g!) designed for work, rope climbing maneuvers, rescue and self-rescue situations.

**Key Features:** Mobile side plates for the rope or on sling placement • Spring operated cam for use as a rope ascender • Sliding lock for use as a pulley • Ideal for the crevasse rescue • It allows the hauling of light loads • Developed to work also on wet or dirty ropes • It can be used to adjust the positioning on webbing or daisy chain

Weight: 2.8 oz (80 g) »

Sizing Info: 8 mm - 13 mm rope / 10 mm - 16 mm webbing

Orange HD26250 \$79.00

COMPLIANT CE EN 12278 EN 567



SMC Shuttle Cable



The SMC Shuttle Tandem Pulley is one of the lightest, fastest, and most versatile zip-line pulleys on the market. Designed to last the long haul and for use on cable or rope up to 13 mm. The SMC Shuttle features stainless steel sheaves, four independent sealed ball bearing assemblies, stainless steel fasteners, and multiple connection points with enough room for rescue carabiners.

**Key Features:** 4 Independent Sealed Ball Bearings • Stainless 1.32" Sheaves • Multiple attachment points • Fits up to 13 mm Cable or Rope

Height: 4.25" (10.8 cm) » Width: 1.07" (2.7 cm) » Length: 3.21" (8.2 cm) »

Weight: 8.0 oz (227 g) » MBS: 26 kN (5845 lbf)

Orange SM156303 \$79.85

BERRY COMPLIANT

SMC Shuttle Cable Xtreme



The SMC Shuttle Cable Xtreme is ideal for high-use environments where users push their gear to the limit. It is designed for extreme or continuous service in permanently rigged challenge courses, commercial zip lines, and for eco-tourism applications. Designed for the commercial operator, the ball bearings may be replaced to extend the overall useful life of the pulley. This pulley is designed to be used with cable.

**Key Features:** Twin Independent Sealed Ball Bearings • Zinc Plated Stainless 1.32" Sheave • Multiple Attach Points • Fits up to 13 mm Cable • Field Rebuildable using the Xtreme Service Kit • Made in the USA

Height: 4.25" (10.8 cm) » Width: 1.07" (2.7 cm) » Length: 3.21" (8.2 cm) »

Weight: 7.6 oz (215 g) » MBS: 26 kN (5845 lbf)

Green SM156304 \$104.25

BERRY COMPLIANT



## Rope Grabs and Ascenders

### Rope Grabs for Industrial Use

#### heightec® Quantum

The Quantum fall arrest device is a product that is suitable for a two person rescue. This self-trailing rope grab is designed to move on the rope easily. A unique cam (patent pending) actually grips the rope in two places and is designed to not damage the sheath of the rope while providing minimum slippage during an arrest.

**Key Features:** Opening catch allows easy attachment and detachment from the rope • All parts are visible for ease of inspection and maintenance • An additional energy absorber is not required • Can be used with a dynamic rope lanyard • Made with high strength alloy with stainless steel friction surfaces

**Weight:** 10.5 oz (298 g) » **Sizing Info:** 10.5 mm - 11.5 mm rope

**HD26235 \$156.00**

**COMPLIANT** CE EN 353-2 EN 358 EN 12841-A



#### **New!** Climbing Technology Easy Move

This lightweight Rope-Access Backup device is designed for maximum performance in the most demanding rope access environments. Compliant to EN 353-2:2002 as a guided type fall arrester for flexible lifeline, as well as EN 12841:2006-A/B for rope access systems.

**Key Features:** Lightweight • Easy to place on and off rope • Grips well on dirty or icy ropes • Locking mechanism for stationary working

**Weight:** 5.0 oz (140 g) »

**Sizing Info:** 8 mm - 13 mm rope

**HD26251 \$108.00**

**COMPLIANT** CE EN 353-2 EN 358 EN 12841-A



#### MIO Rope Grab

This highly effective self-trailing rope grab grips automatically in the event of a fall and dissipates the energy of the fall by slipping along the rope. When used within OSHA guidelines on approved ropes, the amount of slip is well within the OSHA requirements. Comes with lanyard and ANSI Snap Hook.

**Key Features:** Meets ANSI requirements • Used for fall arrest • Approved and tested with PMI® Classic Static (page 6) • Removable dual action pin for easy placement on rope • Stainless steel • Self-trailing

**Weight:** 1.38 lbs (626 g)

1/2" Rope (Blue Pin)	HD26005	\$217.00
5/8" Rope (Black Pin)	HD26006	\$217.00
7/16" Rope (Yellow Pin)	HD26114	\$217.00

**COMPLIANT** ANSI Z359.1



**New!** Climbing Technology Chest Ascender EVO

Light alloy right-hand chest ascender for climbing up ropes, to use together with the ascender handle QUICK UP.

**Key Features:** External profile for the opening lever, which makes climbing up the rope smoother and more effective • Shape for the hole in the opening lever, to facilitate use even when wearing gloves • Lower hole design, so that the device always stays parallel to the user • Patented system for unlocking the cam, with just one downwards movement necessary • New steel cam, manufactured with technology that implements the resistance to wear and tear. Equipped with a set of teeth that protects the wear of the rope, but it is equally effective in blocking and ascending the rope. It also has three slots to prevent the accumulation of mud and reduce the effort needed to slide the device up the rope under any condition (muddy rope, frozen etc.) • Anti-inversion cam system

Weight: 5.0 oz (140 g) »

Sizing Info: 8 mm - 13 mm rope

HD26253 \$68.25

COMPLIANT UIAA CE, EN 567 EN 12841-B



Climbing Technology Quick-Up Handled Ascenders

Left or right-hand light alloy ascender handle with ergonomic rubber grip for climbing ropes.

**Key Features:** Ergonomic grip has a support for index finger • New design steel cam • Secondary hole for connecting a screw link for an etrier • Anti-inversion cam system • Three slots to prevent the accumulation of mud

Weight: 7.6 oz (215 g) » Sizing Info: 8 mm - 13 mm rope

Right Hand Orange HD26255 \$72.00  
Left Hand Grey HD26256 \$72.00

COMPLIANT CE EN 567 EN 12841-B UIAA



**New!** Climbing Technology Simple Ascender

Multi-use light-alloy right-hand rope ascender for climbing ropes or using as a clamp for hauling/rescue.

**Key Features:** Cam opening lever usable with one hand • Equipped with a set of teeth that protects the wear of the rope • Three slots help prevent the accumulation of mud • Two attachment holes for various uses

Weight: 5.3 oz (150 g) »

Sizing Info: 8 mm - 13 mm rope

HD26254 \$70.00

COMPLIANT CE EN 567 EN 12841-B UIAA



PMI®/SMC Grip

MADE IN THE USA

This rope grab is a solid, compact performer that can be used as a ratchet or to grip a kernmantle rope whenever reliability and care are priorities. The compact curved body is easy to grip, and the secure, user friendly release mechanism makes putting this rope grab onto any rope - loaded or unloaded - a breeze. A specially designed cam protects your rope in the event of unexpected loading, but this unit is not designed as a belay or fall protection device.

**Key Features:** Ropes up to 13 mm • Anodized aluminum • Compact

Height: 2.90" (7.4 cm) » Width: 1.85" (4.7 cm) » Length: 3.87" (9.8 cm) »

Weight: 6.7 oz (190 g) » MBS: 5 kN (1124 lbf) » Sizing Info: 10 mm - 13 mm rope

Gold SM220500N \$71.45

BERRY COMPLIANT COMPLIANT NFPA 1983 (2012), T



**SMC Spider**  **MADE IN THE USA**

The SMC Spider is an Auto Braking NFPA L Rated Descender designed for work positioning and personal descent. The Spider provides persons working at height the ability to easily maneuver and secure themselves while on the fly. Allowing users to easily load and unload from the device without having to unclip from their harness, it is an ideal descender for window washers, fire fighters, and industrial workers who need a device that provides them with optimal strength and performance.

Designed to accommodate ropes from 11 mm to 12.5 mm.

Weight: 1.24 lbs (562 g) » MBS: 13.5 kN (3174 lbf)

SM220300N \$168.80

**COMPLIANT** NFPA 1983 (2012), T



 **MADE IN THE USA**

**SMC/RA Rescue 8**

One of the most popular full-sized descenders used by professionals throughout the rescue, fire service, and police/tactical markets for years. Solid aluminum, this heat treated 8 is a staple in your rescue bag.

**Key Features:** Solid heat treated aluminum • Hard-anodized finish • Choose from grey or black • Carabiner hole functions as a sticht plate for 1/2" rope • Available with ears or without

**NFPA (with Ears)**

Height: 0.50" (1.3 cm) » Width: 5.25" (13.3 cm) »

Length: 6.16" (15.6 cm) » Weight: 6.5 oz (184 g) »

MBS: 32 kN (7194 lbf)

Black SM128701N \$55.10

Grey SM128702N \$55.10

**BERRY COMPLIANT**



**Non-NFPA (w/o Ears)**

Height: 0.50" (1.3 cm) »

Width: 3.40" (8.6 cm) »

Length: 6.00" (15.2 cm) »

Weight: 5.3 oz (150 g) »

MBS: 32 kN (7194 lbf)

Black SM129000 \$36.05

**BERRY COMPLIANT**







**MADE IN THE USA**

### SMC NFPA Rack Assembly

The NFPA rack is sold as a complete un-assembled kit so you can arrange it for right-hand or left-hand use. SMC has also added a 17.9" long rack to complete the line.

**Key Features:** 1 six-bar rappel rack • 1 stainless steel tie-off bar • 1 anodized aluminum grooved straight slot bar • 4 aluminum angled brake bars

Height: 1.00" (2.5 cm) » Width: 3.60" (9.1 cm) » Length: 14.40" (36.6 cm) » Weight: 1.83 lbs (828 g) » MBS: 44 kN (10000 lbf)

Straight Eye	SM14001N	\$125.00
90 Degree Eye	SM14002N	\$125.00

Height: 1.00" (2.5 cm) » Width: 3.60" (9.1 cm) » Length: 17.90" (45.5 cm) » Weight: 2.06 lbs (933 g)

17.9" Long Rack	SM14003N	\$127.85
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**BERRY COMPLIANT**

**COMPLIANT**

NFPA 1983 (2012), G (FOR ROPES 11 mm - 16 mm)
NFPA 1983 (2012), T (FOR ROPES 9.5 mm - 12.5 mm)

### SMC NFPA U Rack

What makes this rack different than most other U racks is a proprietary design that allows the aluminum bars to unlatch for ease of use yet not pass around the bend of the rack and thereby become misaligned.

**Key Features:** Hinged bars for easier/faster rigging • Strong secure connection • Stainless steel tie-off bar • 5 Aluminum Bars

Height: 1.00" (2.5 cm) » Width: 3.60" (9.1 cm) » Length: 14.00" (35.6 cm) » Weight: 1.86 lbs (842 g)

SM14600N	\$119.10
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**BERRY COMPLIANT**

<b>COMPLIANT</b>	NFPA 1983 (2012), G (FOR ROPES 11 mm - 16 mm)
	NFPA 1983 (2012), T (FOR ROPES 9.5 mm - 12.5 mm)



### SMC Compact U Rack

SMC's Compact U Rack has many advantages over other small U racks beyond SMC's quality manufacturing. The ingenious design prevents the bars from sliding around the bottom of the rack. The standard rack width allows it to be rigged on two ropes. The upper and lower tie off bars provide a greater variability of friction and secure tie off.

**Key Features:** Stainless steel body and bars • Compact Size • Can be rigged with 2 ropes • Two opposed tie off bars

Height: 1.00" (2.5 cm) » Width: 3.60" (9.1 cm) » Length: 9.60" (24.4 cm) » Weight: 1.66 lbs (754 g)

SM14400N	\$119.10
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**★ USA MADE ★**

<b>COMPLIANT</b>	NFPA 1983 (2012), G (FOR ROPES 11 mm - 16 mm)
	NFPA 1983 (2012), T (FOR ROPES 9.5 mm - 12.5 mm)



## Build Your Own Brake Rack

### 1. Choose a Rack Frame

Open rack frames are the most common, and facilitate ease of adding/subtracting friction during use. Choose a straight-eye or twisted-eye configuration depending on your harness style – the open leg should face down and away from the user during use. A U frame will typically be stronger than an open frame.

### 2. Choose your Brake Bars

Aluminum vs steel is a matter of use and personal preference. Aluminum bars provide greater friction, but will also build up more heat during

use. Bars with straight slots can make it easier to determine whether the rack is rigged incorrectly.

### 3. Select a Top Bar

Using the optional top bar with greater mass can help to dissipate heat during use. These bars also often feature a groove to help keep the rope centered on the rack.

### 4. Optional: Tie-off bar (Hyperbar)

The hyperbar makes it easier to add friction during use, and to tie off. This is an optional addition, but is a good idea for long, variable drops and fluctuating loads.



### Rack Frame

Type #304 stainless steel construction, with a welded eye for extra strength. Each eye weld is inspected for dye penetration before shipping. Average tensile of material used is over 10,000 lbf.

**Key Features:** Stainless Steel

#### Straight Eye, 6 Bar Capacity

Length: 14.40" (36.6 cm) » Weight: 14.5 oz (397 g)

SM13002 \$49.65

#### 90 Degree Eye, 6 Bar Capacity

Length: 14.40" (36.6 cm) » Weight: 14.5 oz (397 g)

SM13502 \$49.45

#### 4 Bar U Rack

Length: 9.60" (24.4 cm) » Weight: 10.4 oz (295 g)

SM13105 \$33.00

#### 6 Bar U Rack

Height: 0.38" (1.0 cm) » Width: 2.38" (6.0 cm) »

Length: 14.00" (35.6 cm) » Weight: 14.8 oz (420 g)

SM13106 \$41.85



### Aluminum Top Bar w/ Groove

7/8" diameter aluminum bar for one of your first or top bars. The extra mass acts as a heat sink and the training groove helps keep the rope centered in your rack. Use only one top bar per rack.

**Key Features:** Aluminum

Height: 0.88" (2.2 cm) »

Width: 0.88" (2.2 cm) »

Length: 2.50" (6.4 cm) »

Weight: 1.8 oz (51 g)

**Angled Slot with Groove** SM12605 \$10.80

### Stainless Steel Top Bar w/ Groove

The 7/8" top bar is designed to stay on your rack and virtually last forever. Has machined groove to keep the rope centered. Core drill out keeps this bar cool and lightweight. Use only one top bar per rack.

**Key Features:** Stainless Steel

Height: 0.88" (2.2 cm) »

Width: 0.88" (2.2 cm) »

Length: 2.47" (6.3 cm) »

Weight: 4.1 oz (120 g)

SM11000 \$55.10



### Stainless Steel Straight Slot Bar

Straight slot "stupid bar" of 1" tubular stainless steel.

**Key features:** Brake Bar straight slot • tubular stainless steel

Height: 1.00" (2.5 cm) »

Width: 1.00" (2.5 cm) »

Length: 2.45" (6.2 cm) »

Weight: 2.8 oz (80 g)

**Black** SM12020 \$17.65



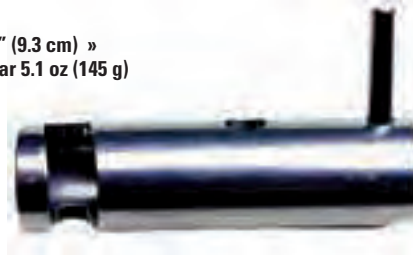
### Steel Tie Off Bar

Large 1" diameter hyper-bar with extension and pin to make locking off easier as well as providing additional friction when needed. Use as a top bar.

**Key Features:** Stainless Steel

Height: 1.00" (2.5 cm) » Width: 2.00" (5.1 cm) » Length: 3.65" (9.3 cm) »  
Weight: U Rack Top Bar 5.3 oz (150 g) » Weight: 1" Tie Off Bar 5.1 oz (145 g)

	<b>Stainless</b>	
1" U Rack Tie Off Bar	SM12110	\$32.40
1" Tie Off Bar	SM12301	\$34.20



### PMI® Bar Tender

Store your brake bar rack in this handy pouch to keep bars together and minimize the jingle factor when not in use. The PMI® Bar-Tender fits any size rack, with or without a hyper bar.

**Key Features:** Fits any size rack • 4" x 8" • Quick release buckle closes and cinches tight • Velcro® closure • Cordura® sheath

Width: 4.00" (10.2 cm) » Length: 8.00" (20.3 cm) » Weight: 1.5 oz (42 g)

Red  
SG51167 \$13.50



### Aluminum Brake Bars

Solid aluminum gives these bars maximum friction and good wear characteristics. Lighter than the stainless bars and available in a straight slot configuration. 7/8" diameter models fit all SMC racks.

**Key Features:** Aluminum

Height: 0.88" (2.2 cm) » Width: 0.88" (2.2 cm) » Length: 2.50" (6.4 cm) » Weight: Reg: 1.9 oz (54 g), Grooved: 1.8 oz (51 g)

Regular, Angled Slot	SM12201	\$9.45
Grooved, Straight Slot	SM12401	\$10.80

### Steel Brake Bars

Angled slot brake bars formed in a "U" shape. Stainless steel bars will not leave aluminum streaks on your rope and will last longer than aluminum bars. Available with or without training groove.

**Key Features:** Stainless Steel

Height: 0.86" (2.2 cm) » Width: 0.86" (2.2 cm) »  
Length: 2.70" (6.9 cm) » Weight: 1.7 oz (48 g)

Brake Bar, angled slot	SM12500	\$11.70
Brake Bar angled slot w/training groove	SM12501	\$11.70



### 1" Angled Brake Bar

Height: 1.00" (2.5 cm) » Width: 1.00" (2.5 cm) » Length: 2.45" (6.2 cm) » Weight: 2.8 oz (80 g)

SM12010 \$17.85

Alpine Brake Tube 

The best device hands down for passing knots in ropes easily and efficiently. Bead blasted and anodized for long wearing friction this lowering device offers tie-off capability. Special risers on the bottom keep it off the ground while in use. Works with virtually any size life safety rope. Not to be used for rappelling.

**Key Features:** Aluminum tubing and stainless steel • Passes knots • Runs multiple ropes • Ties off any rescue load

Height: 2.00" (5.1 cm) » Width: 6.00" (15.2 cm) » Length: 13.00" (33.0 cm) » Weight: 2.90 lbs (1.310 kg)

HD26048 \$236.00



**Selecting A Descender**

1. Confirm compatibility of descender with rope diameter.
2. The descender should create sufficient friction to provide absolute control.
3. Test the descender with hardware, equipment, and gloves typically worn.
4. Know how to lock the descender off so that you can secure yourself and remain stopped on the rope with hands off the device.
5. Be sure the descender is strong enough to have an adequate safety factor.
6. Select a descender with variable friction for long descents.
7. Ideally, a descender should be able to also function as a lowering device.

heightec® Prism™

The Prism™ descender is a completely new product which offers great functionality to rope access workers. It contains a new patented mechanism which multiplies the braking force applied by the user providing fine control. An additional capability of this device is the ability to unthread the secondary braking system, which allows the rope to be easily pulled back through the device during short ascents.

**Key Features:** Double-breaking mechanism will stop if released or panic squeezed • Parts visible for easy inspection and maintenance • Designed for rope diameters between 10.5 mm and 11.5 mm • High strength aluminum with stainless steel friction surfaces • Patented variable friction design eliminates the need for a 2nd carabiner • User can switch between configurations under load

Weight: 1.13 lbs (500 g)

HD26181 \$220.75

COMPLIANT EN 12841-C EN 341-B



SMC Micro U-Rack  MADE IN THE USA

The SMC Micro U-Rack assembly is the smallest and lightest of all SMC Rappel Racks. The design is based on the same principles of our proven NFPA Rappel Racks but more suited for sport climbing and caving expeditions. This device is ideal for either a long rappel or lowering as it evenly distributes the weight between both sides of the rack and does not allow the rope to twist. The Micro Rack MBS range listed below in the Key Features section is dependent on rope diameters tested from 7 mm to 12.5 mm.

**Key Features:** Designed for reliability • Rack frame and bars are polished Stainless Steel • Supports rope diameters from 7 mm up to 12.5 mm • Designed for long lasting service • Made in the USA

Height: 0.78" (2.0 cm) » Width: 2.75" (7.0 cm) » Length: 8.50" (21.6 cm) »

Weight: 14.1 oz (400 g) » MBS: 8 kN\* - 22 kN (1798 lbf - 5000 lbf)

SM13700 \$82.40

BERRY COMPLIANT



SMC Mountaineering 8  MADE IN THE USA

Easy to rig and handle when wearing gloves, this descender has smooth action on belay or rappel. Works well with either single or double ropes from 8 mm to 12.5 mm. Additional friction is gained by increasing the number of wraps.

**Key Features:** Effective for either single or double wrap braking • Works with 8 mm to 12.5 mm • Bottom hole can be used as a stitch plate • High quality aircraft grade 6061 aluminum

Height: 0.38" (9.0 mm) » Width: 2.96" (7.5 cm) »

Length: 4.62" (11.7 cm) » Weight: 2.8 oz (79 g) »

MBS: 27 kN (6070 lbf)

Blue SM81702 \$19.75

BERRY COMPLIANT



PMI® Large Steel Rescue 8  MADE IN THE USA

The classic descender for ropework, the figure 8 is perhaps the most widely recognized component of all vertical gear. This XL steel version from PMI is designed for maximum wear and versatility. You can expect it to provide hundreds of hours of impeccable performance in just about any environment.

**Key Features:** Accepts single or double wrapping braking • Works with rope diameters up to 16 mm (5/8") • Bottom hole can be used as a sticht plate

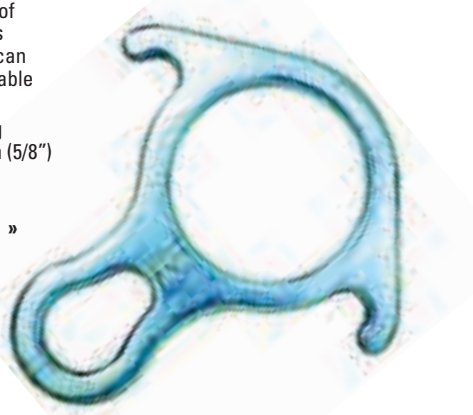
Height: 0.50" (1.3 cm) » Width: 6.75" (17.1 cm) »

Length: 6.75" (17.1 cm) » Weight: 1.50 lbs (680 g) »

MBS: 28 kN (6295 lbf)

HD26100 \$85.50

BERRY COMPLIANT





TerrAdaptor™ Multi Pod



**TerrAdaptor™ Tripod System**

Multiple configurations of the TerrAdaptor™ Portable Anchor System can be built from various standard system components. The primary system revolves around the TerrAdaptor™ Tripod System (SM230100N). This system includes all of the necessary parts to assemble a standard symmetric tripod that provides the ability to reach a height of approximately 10 ft, and can be used in a Gin Pole or Bi-Pod configuration. The system comes packaged in three compact packable bags to make it easy to “grab your bags and go” as well as store the System together in an organized manner.

To transition your Tripod to a Quadpod System, you can purchase the TerrAdaptor™ Quadpod Attachment Kit (SM230105). This kit provides the fourth leg and attachment pieces necessary to transition your tripod into a Quadpod.

If your needs are fairly simple and a single gin pole is the best solution for your situation, you can purchase the TerrAdaptor™ Gin Pole Kit (SM230106). This kit includes a full leg kit to reach approximately 10 feet in height adjustability.

For those who typically encounter environments that require more than 10 feet of height, additional leg extension pieces (approx 4 ft in length) can be individually purchased for this use. This piece can also be used to provide one extra long leg if a tall “lazy leg” configuration, if desired.

**Key Features:** TerrAdaptor™ Tripod Head • 2 Offset Leg Clamps with 3 Load Locking Pins each • Main Attachment Pin • 3 Leg Kits complete with Modular Adaptors and Rocker Feet • Center Leg Clamp with 3 Load Locking Pins each • 3 Rope Hobble Sections • Cotter Pin Kit • Leg Coupling Pin • 2 Lash Ring with 1 Coupling Pin each • TerrAdaptor™ Head/ Accessory Bag • 2 TerrAdaptor™ Leg Bag • TerrAdaptor™ User Guide

SM230100N \$4,275.00

COMPLIANT NFPA 1983 (2012), G CE EN 795



# Anchorage Connectors

## Anchorage Connectors for Fire Rescue

The complete TerrAdaptor™ Portable Anchor System (SM230100N) includes everything you need to set up an NFPA configuration. All of the revolutionary parts come divided into three bags to make transport into the field easy for your whole Team. The bags are also great for storing on any rescue rig.



TERRADAPTOR™



Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care



Entirely unique to the TerrAdaptor™ is the ability to adjust the head angle in multiple directions.



Leg coupling pins provide a secure connection when the pin is fully inserted and the bail is properly secured.



The adaptability of the TerrAdaptor™ Multi Pod can be set up in any type terrain or environment.

Logistics and Support Gear

Training and Education



Each bag that comes with the TerrAdaptor™ has form fitting backpack straps for a comfortable transport into the field.



The head bag comes with dividers in order to protect the head pieces from damage while in storage or in transport.



The TerrAdaptor™ legs are divided into two bags, while the head is stored in a separate bag. Each bag has backpack straps for easy transport.



## TerrAdaptor™ Accessories

Enhance your TerrAdaptor™ with new accessories for added capability. The new Modular Foot System supports more advanced rigging needs - choose from either the Talon or Rocker Foot. The new Capstan Winch Bracket and the Standard Winch Bracket allow for rope or cable winches to be mounted on the TerrAdaptor™. Check out all the accessory options below.



**MADE IN THE USA**

### TerrAdaptor™ Quadpod Attachment System

**Key Features:** Quadpod Head Attachment • Leg kit complete with Foot, Hobble Plate and Basket, Center Leg Clamp with 3 Load Locking Pins each, Main Attachment Pin, Rope Hobble Section

**SM230105 \$1,275.00**

**MADE IN THE USA**

### TerrAdaptor™ Gin Pole Kit

**Key Features:** 2 Lash Ring with Coupling Pins • Leg kit complete with Foot, Hobble Plate and Basket • TerrAdaptor™ User Guide

**SM230106 \$866.00**



## Modular Foot System

The TerrAdaptor's™ ability to adapt for many advanced rigging situations sometimes demands a more advanced foot system and the Modular Foot System was developed to excel in those situations. Each foot in the system has between one and three high strength auxiliary attachment points which can be easily clipped into with a rescue carabiner, quicklink, or tied direct. Feet attach to Modular Adaptors that can be positioned at 45 degree increments within either style of leg tube.

The TerrAdaptor™ Modular Foot System is also designed so that the legs of the TerrAdaptor™ become an integral part of the rigging rather than simply a means of supporting a high anchor point. When you securely anchor the feet at one of the auxiliary attach points you are also securing the head because force can be transmitted down the leg tube just as if it were a piece of rope, with the exception that the legs don't stretch.

### Modular Adaptor

**MADE IN THE USA**

The new Modular Adaptor provides a secure platform for various new foot options. Tools to replace/interchange the feet are provided with the adaptor.

**Key Features:** Fully compatible with the existing TerrAdaptor™ leg tubes • Tighter fit with the existing grey and orange TerrAdaptor™ leg tubes • Rotates in 45 degree increments to achieve the best foot placement

*Height: 2.50" (6.4 cm) » Width: 2.50" (6.4 cm) » Length: 4.70" (11.9 cm) » Weight: 10.7 oz (302 g)*

**SM230540 \$73.50**



**MADE IN THE USA**

### Talon Foot

The new Talon Foot includes two spikes which allow the feet to be perched on edges of walls and catwalks, or they may also be lashed securely to pipes, beams, and rails. The steel tips of the foot may be sharpened or replaced.

**Key Features:** Lash points are still accessible when spikes are fully engaged • Longer spike penetrates deeply for secure placement • Shorter spike provides additional security against foot movement

*Height: 0.50" (1.3 cm) » Width: 4.11" (10.4 cm) » Length: 4.88" (12.4 cm) » Weight: 5.7 oz (161 g)*

**SM230510 \$37.00**



### Rocker Foot

**MADE IN THE USA**

The new Rocker Foot is the next generation of the Ball Foot – it provides more surface area on the ground than the previous Ball Foot.

**Key Features:** Lean angles are greater • Three full-size lash points are standard • Lash points may be easily clipped at extreme lean angles

*Height: 1.46" (3.7 cm) » Width: 2.40" (6.1 cm) » Length: 4.54" (11.5 cm) » Weight: 6.7 oz (191 g)*

**SM230500 \$37.00**



### Articulating Foot

**MADE IN THE USA**

The new Articulating Foot swivels on a stainless steel ball. For extreme wide leg angles, the foot can rotate 90 degrees to the flat position.

**Key Features:** Rubber pad allows use on surfaces such as concrete • Foot may be attached to a surface with screws, bolts, or spikes • Foot may be lashed or clipped to other objects using three large holes

*Height: 4.40" (11.2 cm) » Width: 3.96" (10.1 cm) » Length: 3.96" (10.1 cm) » Weight: 1.02 lbs (460 g)*

**SM230530 \$111.00**



## Anchorage Connectors



### TerrAdaptor™ Winch System

The new SMC TerrAdaptor™ Capstan Winch System mounts on any grey leg tube section in any position on the TerrAdaptor™ multi pod. A stainless steel rope guide ensures that the rope enters the capstan at the correct angle for the greatest grip. Clip points on the front and rear of the bracket can be used for progress capture devices such as a rope grab or a prusik.

**Key Features:** Made from anodized aluminum • Includes a Harken 40.2ST two speed, self-trailing capstan winch • Stainless steel rope guide • Designed to work with progress capture devices • Engineered TerrAdaptor™ winch bracket • Made in the USA

*Height: 5.40" (13.7 cm) » Width: 5.90" (15.0 cm) » Length: 11.25" (28.6 cm) » Weight: 8.55 lbs (3.878 kg)*

SM230552      \$1,906.00

### TerrAdaptor™ Capstan Winch Bracket

The new Capstan Winch Bracket is designed for use with the Harken 40.2ST Capstan Winch. This bracket is predrilled and includes all hardware for mounting the Capstan. It may be mounted on any grey leg tube section on the TerrAdaptor™.

**Key Features:** Stainless rope guide ensures rope enters capstan at the correct angle • Clip points are included for use of progress capture devices • Anodized Aluminum • Made in the USA

*Height: 2.40" (6.1 cm) » Width: 5.90" (15.0 cm) » Length: 11.25" (28.6 cm) » Weight: 3.55 lbs (1.610 kg)*

SM230551      \$150.00



### TerrAdaptor™ Standard Winch Bracket

The new Standard Winch Bracket is pre-tapped for mounting most Tractel and DBI/Sala cable work winches. In addition, other cable or rope winch models can be mounted per the manufacturer's instructions. It may be mounted on any grey leg tube section on the TerrAdaptor™.

**Key Features:** Clip points are included for use of progress capture devices • Anodized Aluminum • Made in the USA

*Height: 2.40" (6.1 cm) » Width: 3.50" (8.9 cm) » Length: 11.25" (28.6 cm) » Weight: 3.06 lbs (1.379 kg)*

SM230550      \$105.00



# Anchorage Connectors

Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

**MADE IN THE USA**

## Sheave Assembly

The TerrAdaptor™ Cable Sheave Assembly is specifically designed for use with the TerrAdaptor™ Portable Anchor System and the TerrAdaptor™ Cable Winch Bracket that allows you to utilize many of the commonly used cable winch systems. This Cable Sheave is a seamless connector maintaining the NFPA strength ratings while used in the multiple NFPA TerrAdaptor™ certified configurations. NOTE: While this sheave may be used with either rope OR cable, it should not be used interchangeably. Once cable has been run through the sheave, it should not be used for rope.

**Key Features:** Zinc Plated Hardened Alloy Steel Sealed Ball Bearings • Supports up to 1/2" diameter cable or rope • Compact and easy to use • Made in the USA



### Steel Sheave Assembly

Weight: 4.2 oz (118 g)

SM230360 \$39.25

The TerrAdaptor™ Sheave Assembly fits directly on to the main attachment pin to act as a pulley.

**MADE IN THE USA**

## QuickLash

The TerrAdaptor™ QuickLash has been designed to work exclusively on the TerrAdaptor™ grey tube as an anchor point. With the QuickLash, TerrAdaptor™ users will now be able to install an auxiliary anchor point before, during or after set up. Simply connect the QuickLash by inserting the quick release pin and you have a high strength single or multi direction tieback. This new QuickLash is ideal for attaching pulleys or other gear to assist with tie backs, redirects, and/or tie downs. Quick, easy and high strength make this TerrAdaptor™ accessory a must have for all rescue teams who have come to love the TerrAdaptor™.



**Key Features:** Attach to grey tubes before, during or after setting up TerrAdaptor™ • Connection point for single or multi direction tieback • Can be attached inside of leg and used to tie TerrAdaptor™ down for stability • Can be used as attachment point for hanging pulleys or other gear • Can be attached at the foot connection point • 30 kN strength when loaded straight along major axis • 15 kN when strength when pulled to side at 90 degrees

MBS: 30 kN (6744 lbf) » Major Axis: 30 kN (6744 lbf) » Minor Axis: 15 kN (3372 lbf) » Weight: 4.2 oz (118 g)

SM230370 \$46.50

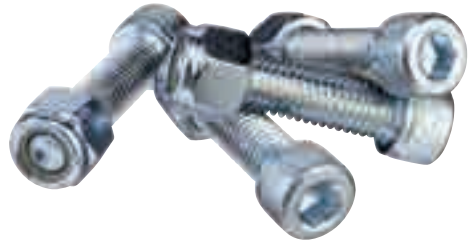
**MADE IN THE USA**

## Bolt Replacement Kit

4 Nylok Nuts

**Key Features:** 4 SHCS Alloy Bolts • 4 Nylok Nuts

SM230326 \$4.75



**MADE IN THE USA**

## Replacement Rope Hobble

SM230307 \$17.50



**MADE IN THE USA**

## Lash Ring Kit

SM230230 \$56.00



# Anchorage Connectors

*Anchorage Connectors for All Purpose Use*

## Sked® Evac Tripod **MADE IN THE USA**

The small head and extra-long aluminum legs make this tripod the perfect choice for simplicity and performance. When fully extended, the head is ten feet high and the tripod can support a load up to 5280 lbf. The load capacity increases as the leg extension is reduced.

**Key Features:** Legs are adjustable in 5" increments • Fully extended height of 10 ft at the anchors • Tripod legs are secured with chains to prevent them from spreading under load • 3 anchor points • Winches and other attachments available

### Tripod

Weight: 71.00 lbs (32.200 kg)

SK700 \$1,565.00



### Tripod Case

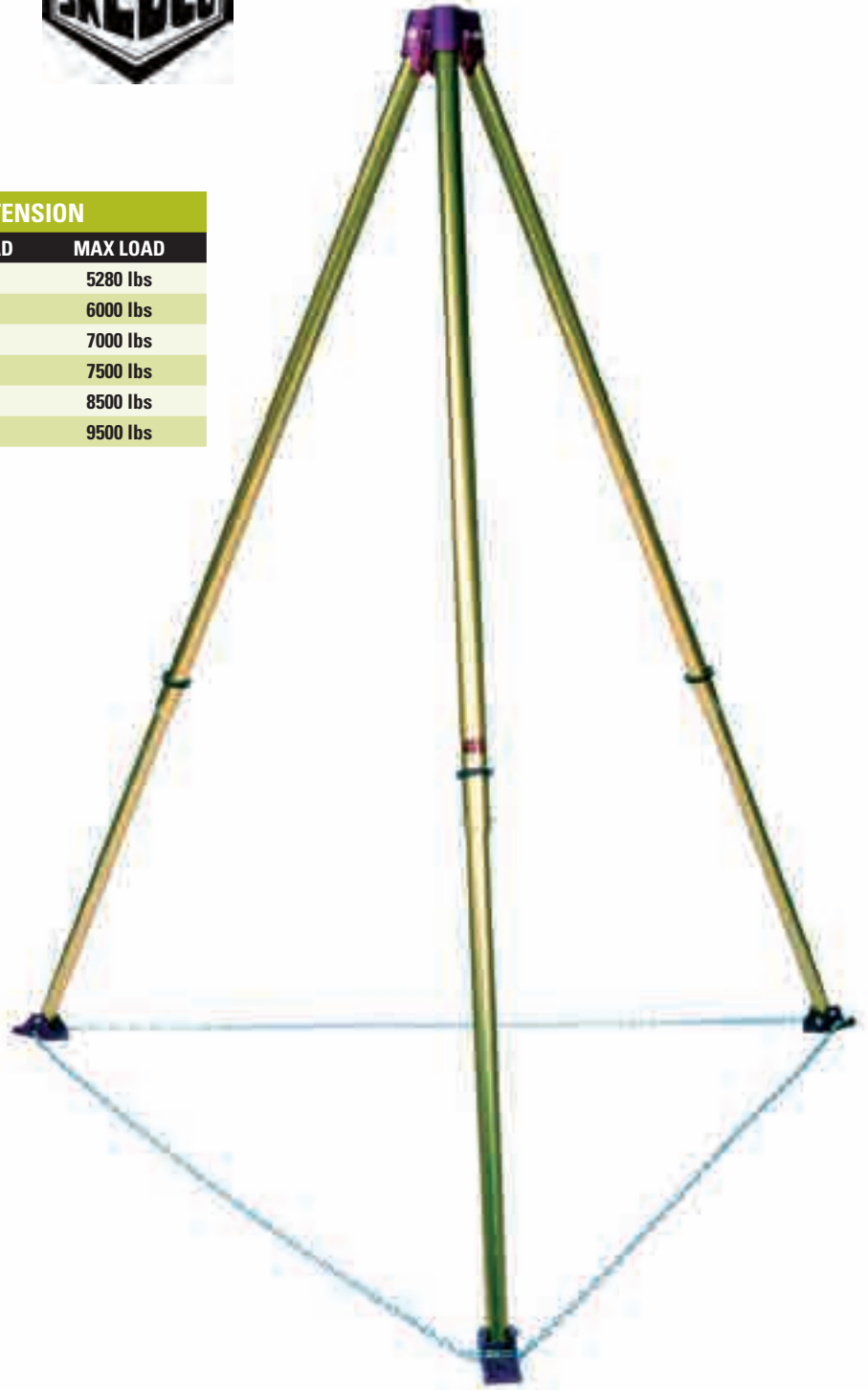
Weight: 4.00 lbs (1.810 kg)

SK701 \$99.28

COMPLIANT CE EN 795

### SKEDCO TRIPOD – MAX LOAD vs LEG EXTENSION

LEG POSITION	TRIPOD HEIGHT	LEG SPREAD	MAX LOAD
A	119"	111 1/2"	5280 lbs
B	115"	106"	6000 lbs
C	112"	103"	7000 lbs
D	107"	98 1/2"	7500 lbs
E	102"	95 1/2"	8500 lbs
F	98"	90"	9500 lbs



# Anchorage Connectors

Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patent Care

Logistics and Support Gear

Training and Education

## PMI® 1/2" Removable Anchor

This anchor can be removed and reused at any desired location. It features unmatched safety, ease of use, and speed. The RB Anchor works in horizontal, vertical, and overhead/ceiling surfaces. Costly engineering inserts are not required. This anchor can be used for restraint, work positioning and more. This product is designed for use in concrete or rock only.

**Key Features:** Spring is zinc plated steel • Swage is zinc plated copper • Trigger is aluminum alloy • End termination, spoons, and stop sleeves are stainless steel • Main cable is 7 x 19 galvanized cable

MBS: 12 kN (2700 lbf) » Weight: 3.2 oz (91 g)

HD26233 \$62.95



## PMI® Fall Protection RB Anchors

This anchor can be removed and reused at any desired location. It features unmatched safety, ease of use, and speed. The RB Anchor works in horizontal, vertical, and overhead/ceiling surfaces. Costly engineering inserts are not required. This anchor can be used for fall protection, restraint, work positioning, and more. This product is designed for use in concrete or rock only.

**Key Features:** Spring is zinc plated steel • Swage is zinc plated copper • Trigger is aluminum alloy • End termination, spoons, and stop sleeves are stainless steel • Main cable is 7 x 19 galvanized cable

### 1" Fall Protection RB Anchor

MBS: 44 kN (10000 lbf) » Weight: 1.00 lbs (454 g)

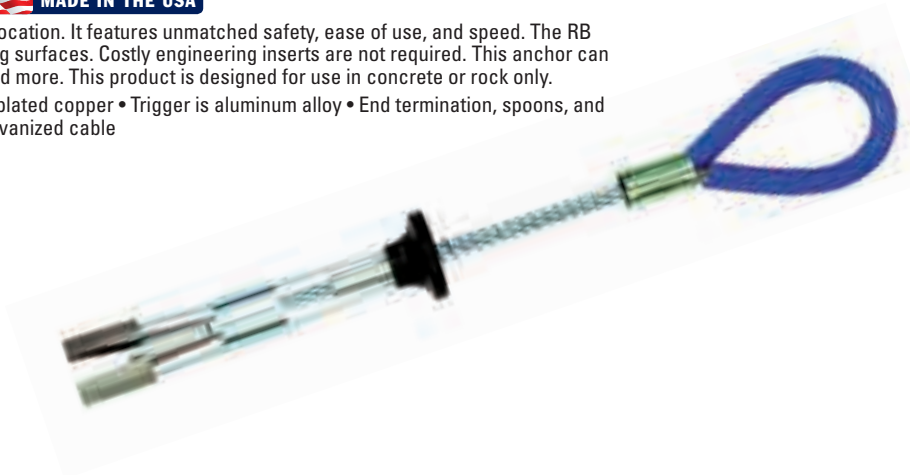
HD26224 \$207.00

### 3/4" Fall Protection RB Anchor

MBS: 22 kN (5000 lbf) » Weight: 8.0 oz (227 g)

HD26223 \$120.00

**COMPLIANT** ANSI Z359.1 CE EN 795



Scott Melcer Photography

## PMI® 3/4" Toggle Lok Anchor

This innovative anchor sets itself apart from the competition. It features unmatched safety, ease of use, and versatility. This anchor can be removed and used again. The Toggle works in horizontal, vertical, and overhead surfaces. It also works in either precast concrete or steel flanges. Costly engineering inserts are not required. This anchor can be used for fall protection, life line systems, restraint, work positioning, tie back anchors, and more.

**Key Features:** Works in both shear and tensile loads • Spring is zinc plated steel • Swage is zinc plated copper • Hole plug is aluminum alloy • Cable sheath is plastic • Main cable is 7 x 19 galvanized cable

MBS: 22 kN (5000 lbf) » Weight: 8.0 oz (227 g)

HD26225 \$125.00

**COMPLIANT** ANSI Z359.1 CE EN 795



# Anchorage Connectors

 **MADE IN THE USA**

## SMC Rigging Ring

The SMC Rigging Ring is the strongest aluminum ring of its size on the market. The SMC Rigging Ring was designed as the ultimate climbing accessory and can be used in conjunction with anchor systems, haul systems, or as a connection point, providing that missing link which is often needed. The inside diameter will accommodate three standard sized carabiners.

*Height: 0.50" (1.3 cm) » OD: 1.70" (4.3 cm) » ID: 1.10" (2.8 cm) » Weight: 0.9 oz (26 g) » MBS: 32 kN (7194 lbf)*

	<b>Grey</b>	<b>Rust</b>	
<b>1 Ring</b>	<b>SM81503</b>	<b>SM81505</b>	<b>\$4.90</b>



 **MADE IN THE USA**

## SMC Descending Ring

This inexpensive aluminum ring is intended to be left at the top of a rappel in place of a carabiner to facilitate rope recovery. More creative applications abound in rescue rigging.

*Height: 0.30" (8.0 mm) » OD: 2.00" (5.1 cm) » ID: 1.50" (3.8 cm) » Weight: 0.4 oz (11 g) » MBS: 15 kN (3372 lbf)*

	<b>Natural</b>	
<b>1 Ring</b>	<b>SM81600</b>	<b>\$3.20</b>

## Steel O Ring

Simple, low cost focal point for rigging. This is a "bombproof" forged steel ring that is ideal for any multi-directional loading situation.

*Height: 0.50" (1.3 cm) » OD: 4.00" (10.2 cm) » ID: 3.00" (7.6 cm) » Weight: 9.0 oz (256 g) » MBS: 44 kN (10000 lbf)*

<b>1 Ring</b>	<b>HD26049</b>	<b>\$12.00</b>
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# Anchorage Connectors

## SMC Swivel

This rescue swivel is a high performance piece of gear with incredibly smooth action and a beautiful feel and finish. The holes are sized to work with rescue carabiners and allow the lock sleeves to rotate through the holes. The heat-treated axle and a sealed high efficiency ball bearing ensures a smooth rotation. Compact for confined space and for awkward hauling situations. Smooth and rounded sides prevent catching on rocks, litters, or other components.

**Key Features:** Lightweight • Anodized aluminum • Sealed bearing • Heat treated axle

*Height: 1.30" (3.3 cm) » Width: 2.00" (5.1 cm) » Length: 3.50" (8.9 cm) »*

*Weight: 4.5 oz (128 g) » MBS: 44 kN (10000 lbf)*

<b>Blue/Charcoal</b>	<b>Black</b>	
<b>SM136000N</b>	<b>SM136007N</b>	<b>\$93.85</b>

**BERRY COMPLIANT**

**COMPLIANT**

**NFPA 1983 (2012), G**



Rope

Webbing  
and Cordage

Personal  
Gear

Hardware

Solutions  
and Kits

Patient  
Care

Logistics and  
Support Gear

Training and  
Education

# Anchorage Connectors

## Anchorage Connectors for Fire Rescue

### SMC NFPA Rigging Plate **MADE IN THE USA**

Half the size of the bigger plates on the market, yet just as strong and with oversized holes to accommodate more gear. Contoured edges are easy on ropes, webbing and carabiners. Each oval hole will easily accept 2 large carabiners while a large center hole accepts numerous connections.

**Key Features:** Anodized aluminum • Holes are numbered for quick identification

Height: 0.50" (1.3 cm) » Width: 5.30" (13.5 cm) » Length: 7.00" (17.8 cm) » Weight: 11.4 oz (323 g) » MBS: 50 kN (11240 lbf)

Red

SM130005 \$55.45

**BERRY COMPLIANT** **COMPLIANT** NFPA 1983 (2012), G



*Keeping all of your equipment organized at the anchor keeps your system running smooth. Using SMC rigging plates can help you do just that.*



### SMC Mini Rigging Plate **MADE IN THE USA**

One of the lightest yet strongest mini-rigging plates on the market, built with high quality 6061 aircraft grade aluminum for strength, durability, corrosion resistance, and years of reliability. Designed to serve as either a belay device or a collection point for multiple anchors and/or rigging points - but that certainly doesn't exclude it from a host of other tasks.

**Key Features:** Large carabiner holes

Height: 0.37" (9.4 cm) » Width: 2.93" (7.4 cm) » Length: 3.75" (9.5 cm) » Weight: 2.8 oz (79 g) » MBS: 36 kN (8093 lbf)

Black

Blue

SM130301N SM130302N \$29.90

**BERRY COMPLIANT** **COMPLIANT** NFPA 1983 (2012), G





# Anchorage Connectors

Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

## PMI® Choker Sling



Wrapped around a beam, the new PMI® Choker sling provides a quick and safe anchor. An extra piece of webbing is sewn on the entire length of the sling to protect it from sharp edges and prolong its life.

**Key Features:** Fast connection • Extra layer of webbing for protection • Cinch strap for easy closure

**MBS:** Basket (U): 48.7 kN | End-to-end: 22.2 kN | Choker: 20.8 kN

**3 ft (100 cm)**

Weight: 15.2 oz (431 g)

SG51213 \$38.00

**6 ft (200 cm)**

Weight: 1.20 lbs (544 g)

SG51214 \$41.00

**4 ft (125 cm)**

Weight: 1.05 lbs (476 g)

SG51242 \$40.00

**8 ft (250 cm)**

Weight: 1.35 lbs (612 g)

SG51243 \$45.50

**COMPLIANT** NFPA 1983 (2012), G, ANSI Z359.1

Velcro® Cinch Strap for easy closure and storage.



## PMI® Anchor Sling

Setting a strong and secure anchor is easy with the right tools. Adding PMI® Anchor Slings to your anchor kit gets the job done quickly and efficiently. Choose from 3 different lengths for all your rigging applications.

**Key Features:** 1 3/4" webbing • Steel D-rings on both ends • Fast connection • 3 different lengths

**MBS:** Basket (U): 49.2 kN | End-to-end: 27.8 kN | Choker: 22.6 kN »  
Width: 1.75" (4.4 cm)

**3 ft (100 cm)**

Weight: 11.0 oz (311 g)

SG51029 \$41.00

**4 ft (150 cm)**

Weight: 12.0 oz (354 g)

SG51030 \$46.50

**6 ft (200 cm)**

Weight: 14.0 oz (410 g)

SG51031 \$51.25

**COMPLIANT** NFPA 1983 (2012), G, ANSI Z359.1



## Skedco Soft Anchor Sling

The Skedco Soft Anchor Sling is a perfect utility strap suitable for many purposes. With loops sewn on each end, this strap is lightweight and easy to use. The 6 ft model is constructed of 16,000 lbf tensile strength webbing and the 8, 12, and 20 ft long models are of 20,000 lbf webbing.

**Key Features:** 3 lengths • 3" high tensile strength webbing • Lightweight • Nylon

Height: 1.00" (2.5 cm) »

Width: 3.00" (7.6 cm) »

MBS: 86 kN (19334 lbf)

**8 ft**

Weight: 2.00 lbs (907 g)

SK9118 \$42.76

**12 ft**

Weight: 2.38 lbs (1.089 kg)

SK91112 \$54.80

**20 ft**

Weight: 2.63 lbs (1.179 kg)

SK91120 \$69.36



## PMI® Vari-Rigger



A simple adjustable strap with D-rings on each end. Double around a suitable anchor for a quick rigging point to use as a variable length tether.

**Key Features:** High strength D-rings on both ends • Quick, adjustable rigging • Buckles slip at 22 kN (5000 lbf) • Adjustable length: 24" to 96"

MBS: 22 kN (5000 lbf) » Weight: 1.50 lbs (680 g)

SG51033 \$80.75



## Anchorage Connectors

### **New!** PMI® Vertical Beam Clamp

The PMI® Vertical Beam Clamp is a fixed I-beam anchor that is easy to operate and designed to clamp onto a vertical or horizontal I-beam to create a fixed anchor point. Designed to clamp onto steel beams from 4"-14" with a flange thickness of .25" - 1.25".

**Key Features:** Weight: 7.1 lbs • Beam Flange Width: 4" - 14" • Breaking Strength: 5,000 lbf / 22kn

*Weight: 7.10 lbs (3.220 kg) » MBS: 22 kN (5000 lbf)*

HD26249 \$339.95

COMPLIANT ANSI Z359.1 (2007)



### **New!** PMI® I Beam Trolley

A removable and reusable rolling I-beam anchor, easy to place and remove. This anchor is designed to easily roll along the beam while trailing the worker.

**Key Features:** Sealed ball bearing wheels • Polyester sling • 360 degree swivel d-ring • 3"-10" range • Stainless lockout screws • Easy installation • Extreme strength • Rated to 22kNs

*Weight: 7.70 lbs (3.493 kg) » MBS: 22 kN (5000 lbf)*

HD26243 \$379.95

COMPLIANT ANSI Z359.1 (2007)



 **MADE IN THE USA**

### PMI® Drop Through Anchor Kit

An ANSI Z359 anchorage connector that be used with steel grates or holes in concrete.

**Key Features:** 3/16" Steel plate with a 8 1/2' cable attached to a swiveling D-Ring • Drops through the opening in any 1 3/4"- 2" Substrate • Used only as an overhead anchor in concrete floors, steel girders, steel grates, and other applications

*MBS: 22 kN (5000 lbf) » Weight: 2.60 lbs (1.179 kg) »*

*Length: 8.50 ft (2.6 m) » Plate Dimensions: 4" x 3/16"*

HD26232 \$99.95

COMPLIANT ANSI Z359.1 CE EN 795



Scott Melcer Photography

# Anchorage Connectors

## PMI® I Beam Clamp

This I-Beam Clamp is the lightest and nimblest of its kind. It is specifically designed for fall protection, work positioning, restraint, personal riding, and more. A 360 degree swivel D-ring allows for ultimate freedom when connected to a lanyard or other attachment. This I-Beam can hold up to 400 lbs. Optimum strength is achieved with a solid steel design and a 7-series aluminum support rod.

**Key Features:** Support bar is 7071 Aluminum alloy • Flange hook is 6061 Aluminum alloy • Flange insert is Aluminum Bronze • Flange stops and D-ring mount is stainless steel • Adjusts from 3" to 12"

MBS: 22 kN (5000 lbf) » Weight: 3.40 lbs (1.540 kg)

Blue  
HD26229 \$200.00

COMPLIANT ANSI Z359.1 CE EN 795



## PMI® Mega Swivel 10K Concrete MADE IN THE USA

This swivel anchor may be used as a permanent or portable anchor. It is specifically designed for fall protection, work positioning, restraint, tie back anchoring, four-man life line systems, and more. Drill a hole in the concrete, blow out the dust, and insert the swivel. This anchor can be removed and used again. The concrete bolt is designed to be used in concrete.

**Key Features:** Works in both shear and tensile loads • D-ring rotates 360 degrees • D-ring flips 180 degrees • Heavy gauge zinc plated, forged, heat treated alloy steel • One concrete bolt included

WLL: 9 kN (2000 lbf) » MBS: 44 kN (10000 lbf) » Weight: 1.80 lbs (816 g)

HD26227 \$64.00

Extra Concrete Bolts  
HD26228 \$14.95

COMPLIANT ANSI Z359.1 CE EN 795



## PMI® Mega Swivel 10K Steel MADE IN THE USA

This swivel anchor may be used as a permanent or portable anchor. It is specifically designed for fall protection, work positioning, restraint, tie back anchoring, four-man life line systems, and more. This anchor can be removed and used again. The steel bolt is designed to be used in steel.

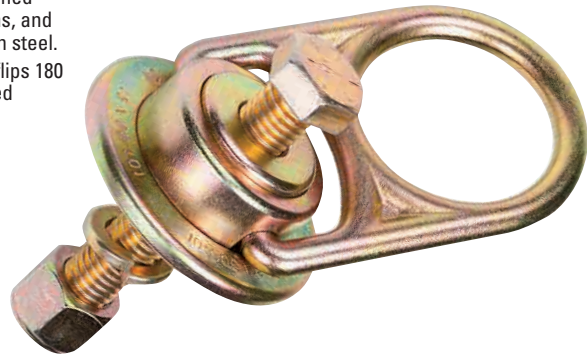
**Key Features:** Works in both shear and tensile loads • D-ring rotates 360 degrees • D-ring flips 180 degrees • Heavy gauge zinc plated, forged, heat treated alloy steel • One steel bolt included

WLL: 9 kN (2000 lbf) » MBS: 44 kN (10000 lbf) » Weight: 2.00 lbs (907 g)

HD26226 \$ 64.00

Extra Steel Bolt, Nut and Washer  
HD26230 \$14.95

COMPLIANT ANSI Z359.1 CE EN 795



Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patent Care

Logistics and Support Gear

Training and Education

# Solutions and Kits

PMI offers complete pre-packaged solutions for Rescue at Height, Rope Access, and Fall Arrest. We take the guess work out of a situation and streamline your rescue and work life.

Pre-packaged kits for Hauling, Emergency Bailout, and Personal Escape are also available as products that work for your situation.

## Rescue and Evacuation Systems

All safety systems for work at height should include a plan for rescue. With most vertical endeavors, being on-rope is secondary to the actual job being performed. Workers must always ensure that equipment, systems, and methods comply with applicable regulations, and that the method used will safely and effectively perform the job at hand. The following four PMI Solutions offer a complete, ready-to-go kit for rescue in any industry or work situation.

*To be effective, rescue systems must be easy to use, safe, and reliable. The following criteria should be applied when evaluating a rescue system:*

- 1) Rescuers should not be part of the anchor system.
- 2) In case of operator panic, the lowering or raising device must be "fail-safe".
- 3) Systems should be simple to deploy and operate.
- 4) Subject attachment should be secure.
- 5) Additional parts are not necessary for rope devices when changing from one mode of operation to another.

## Designed, Built, and Tested for Rescue

- Self-Rescue
- Companion Rescue by Lower
- Companion Rescue by Raise
- Companion Rescue by Controlled Descent

## Work at Height Solutions

Personal work at height systems are designed to make the job at hand easier and more comfortable for the user. Many work at height projects may involve descending, ascending, horizontal traverses, lead climbing, hazardous environments, or moving heavy equipment. Each of the PMI Solutions are ready to use, easy to adjust, and compatible with the rest of the equipment.

*The following criteria should be applied when evaluating work at height systems:*

- 1) Solution must have the required pieces for the job.
- 2) Each component must be compatible with other system components.
- 3) Solutions should be simple to operate and deploy.
- 4) Equipment attachment should be easy and effective.
- 5) Proper training (find out more at [www.verticalrescuesolutions.com](http://www.verticalrescuesolutions.com)).



Harken® PowerSeat™  **MADE IN THE USA**

The Harken® PowerSeat™ is a groundbreaking in-seat powered ascender/descender for vertical rope access. Operated by gas, the PowerSeat is designed to stay in an upright position, allowing technicians to work comfortably at height and to complete tasks quickly. Safety is paramount. A dead man's switch controls ascent speed up to 15 m/min (49.2 ft/min), while a fail-safe braking system controls descent and prevents free-falls. The Harken PowerSeat™ is built of strong, noncorrosive materials and weighs just 30.80 lbs (14.000 kg) for easy hand carry. Maximum working load is 601.8 lbs (273 kg), allowing two-person rescue operations. It is CE certified to Machinery Directive and verified by Bureau Veritas. The PowerSeat's many applications include: mountain rescue, industrial maintenance, wind turbine and offshore construction, engineering and inspections, marine and rigging. It can also be used in horizontal configurations to haul material or fixed-point rigging for rescue. An electric version of the Harken® PowerSeat™ is also available. \*Must be used with a Fall-Arrest system

**Key Features:** Ergonomically designed to stay in an upright position • A winch brake offers security against a free fall • Speed control is achieved by a fail-safe switch which controls ascent speed • Alloy steel carrying gears provide strength • Stainless steel pins provide durability • Steel bearings reduce friction and maximize reliability • Honda® gas engine

*Working Load Limit: 273 kg (601.8 lbs) » Weight: 30.90 lbs (14.00 kg)*

HD26234 \$7,040.00



Rope

Webbing  
and Cordage

Personal  
Gear

Hardware

Solutions  
and Kits

Patient  
Care

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Support Gear

Training and  
Education

## PMI® Ladder Rescue Kit

PMI's Ladder Rescue Kit is designed for rescuing a worker in the event of a fall with minimal prior rescue training. The system is simple to deploy using the existing or a temporary anchor point. The Rescue Ladder System allows the victim to climb efficiently and safely with the added safety of the rope grab system. The PMI® Ladder Rescue Kit is equipped with a fast drop in 18' foot ladder with a locking ANSI steel carabiner for quick attachment. The added rope grab system allows the victim to climb efficiently and safely reducing the risk of a secondary fall. The fast drop in system features a simple but rugged roll top bag with reflective lettering. This highly visible bag makes this rescue ladder easy to find in emergency situations.

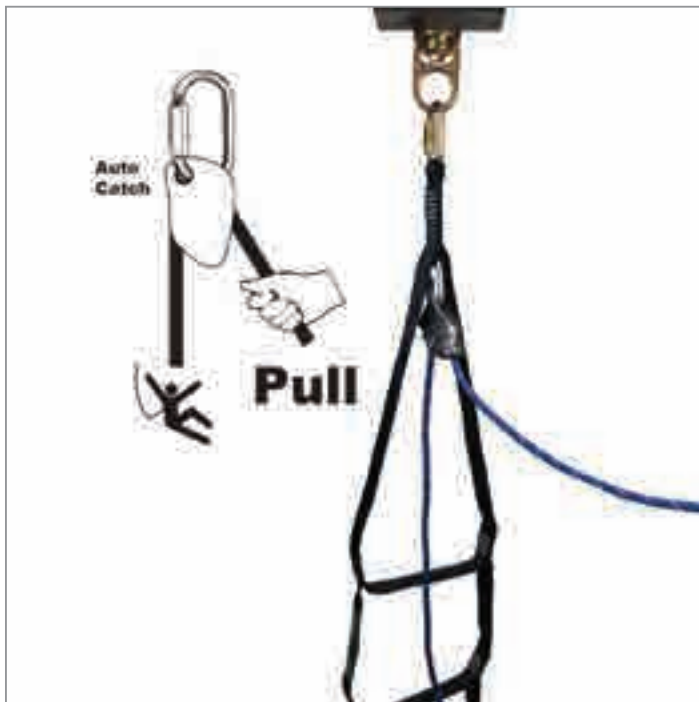
### Solution Features:

Progress Capture Pulley (Belay Device) • 2" Heavy Duty Black Nylon Webbing Ladder • Aluminum bar rungs sewn into heavy duty black webbing • Static 11 mm nylon rope • ClimbTech ANSI Steel Carabiner • Ballistic nylon deployment bag

Weight: 8.20 lbs (3.719 kg)

KT36164 \$665.00

COMPLIANT	ANSI Z359.4
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## Flexible Sided Ladders

Flexible sided ladders are a cost effective, lightweight solution for temporary access to confined spaces and difficult to reach locations. Even with minimal training, ladders can easily be transported and rapidly deployed for use. Personnel utilizing ladders should always use a separate fall protection system for safety.

**Construction:** The rungs are hollow tubes with a dowel insert. Rungs are secured to the side wire ropes with pins and resin. A pin is driven through the center of the rope into the dowel and set in resin to form a solid block inside the rung. A plastic cap is then pushed in to seal the rung end. Black rungs are cut to size and drilled before treatment to ensure that the alloy tube is 100% anodized.

### Compact Ladders

General purpose ladder for ascending/descending. Used for applications such as manhole entry, caving, and access to lighting truss. With fitness and a little practice, they are easy to climb.

**Key Features:** Standard lengths are 5 m and 10 m • Other lengths made to order • Can be connected together for longer lengths • Easy to carry and store • Swaged eye ends • Accessories available • Two rung spacing options • Rungs are 6.0" wide • Aluminum rungs are 0.50" diameter • Requires a separate fall protection system

#### Plain Finish Rung, 4 mm Galvanized Steel Cables, Swaged Eye Ends

5 m long w/25 cm rung spacing	2.87 lbs (1.300 kg)	LD39001	\$269.20
10 m long w/25 cm rung spacing	5.73 lbs (2.600 kg)	LD39003	\$513.60

#### Plain Finish Rung, 3 mm Galvanized Steel Cables, Swaged Eye Ends

10 m long w/30 cm rung spacing	3.97 lbs (1.800 kg)	LD39008	\$413.50
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#### Black Anodized Rung, 4 mm Stainless Steel Cable, Swaged Eye Ends

5 m long w/30 cm rung spacing	2.65 lbs (1.200 kg)	LD39042	\$363.80
10 m long w/25 cm rung spacing	5.73 lbs (2.600 kg)	LD39043	\$832.80

### Wide Rung Ladders

General purpose ladder for ascending/descending. Used for work positioning applications. With fitness and a little practice, they are easy to climb. Pricing per meter for custom lengths.

**Key Features:** Useful for work positioning • Wide enough to fit both feet side by side • Larger diameter rungs are more comfortable to stand on for long periods of time • Used for applications such as cleaning, inspection, and vessel entry • Rungs are 10.6" wide • Aluminum rungs are 1" diameter • GRP rungs are 1.3" diameter

#### Wide Aluminum Rung, 4 mm Galvanized Cable, Swaged Eye Ends

1 m long w/30 cm rung spacing	1.37 lbs (620 g)	LD39046	\$101.30
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#### Wide Black Aluminum Rung, 4 mm Stainless Steel Cable, Swaged Eye Ends

1 m long w/30 cm rung spacing	1.37 lbs (620 g)	LD39048	\$140.80
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#### Wide GRP Rung, 4 mm Stainless Steel Cable, Swaged Eye Ends

1 m long w/25 cm rung spacing	2.09 lbs (950 g)	LD39050	\$141.80
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#### Wide GRP Rung, 8 mm Polyester Rope, Swaged Eye Ends

1 m long w/30 cm rung spacing	2.34 lbs (1.060 kg)	LD39052	\$133.50
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### LADDER RUNGS

Select from Alloy, Anodized Aluminum, and GRP.



Alloy



Black Anod Al



GRP

Find out more Ladder specifications online at  
[www.pmirope.com/professional/learn/product-resources](http://www.pmirope.com/professional/learn/product-resources)

## heightec® TowerPack™ - Tower Rescue Kit

### Self Evacuation or Rescue of Another by Controlled Descent

The TowerPack™ is designed to meet the requirements of mast and tower climbers who need to evacuate themselves or recover an injured worker. Allowing for immediate descent of a rope, the kit includes the PowerLock™ descender. The PowerLock™ descender has a double action safety mechanism which will brake if the user either lets go or squeezes too hard in panic. Prior to descent, the PowerLock™ easily adjusts the amount of rope slack and provides excellent braking control, even with a load of two persons. This system does not include a rescuer harness. Applicable kit components are in compliance with ANSI Z359.4

#### Solution Features:

- 11 mm Low Stretch Rope (50 or 100 m)
  - 1 - 1 m Steel anchor sling
  - 1 - Hurricane Pro™
  - 1 - 2" stainless steel pulley
  - 4 - Steel ANSI rated Carabiners
  - 1 - PowerLock™ rescue descender
  - 1 - Pair Rescue Snips
  - 1 - Casualty attachment steel sling
  - 1 - Carrying Bag
- |              |                |                   |
|--------------|----------------|-------------------|
| <b>50 M</b>  | <b>KT36162</b> | <b>\$1,150.00</b> |
| <b>100 M</b> | <b>KT36163</b> | <b>\$1,475.00</b> |





Grain Evacuation Tool (G.E.T.) 

**PMI's Grain Evacuation Tool**

The GET Cofferd Dam Solution, is a complete rescue solution designed and manufactured by Montezuma Rescue Innovations. The GET is made up of six interlocking aluminum panels used to form a circle and isolate an entrapped person from the grain surrounding them. Included in the solution is the Grain Portr - a revolutionary tool used to quickly remove the grain inside the GET, thereby freeing the subject from the grain. Also included are probe poles that make a target ring surrounding the subject to accurately position the GET panels.

**Key Features:**

Interlocking panels fit through the smaller openings found in the top of older style grain bins • The GET contains two foot straps to help drive the panels into the grain • The Grain Portr grain removal device can quickly remove grain inside the GET Cofferd Dam • Probes convert into a target ring to position the GET around the subject • The GET solution fits into a compact package for storage, or lowering into a grain elevator or bin • Made in the USA

*Weight: 89.00 lbs (40.370 kg) » Length: 59.75" (151.8 cm) » Width: 15.50" (39.4 cm) » Height: 3.00" (7.6 cm)*

PE42191 \$4,000.00



PMI®/SMC Advance Tech Haul System



The new PMI Advance Tech HX Haul System provides an extremely strong and versatile haul system. Weighing around 3 pounds, this kit is pre-rigged as either a 4:1 or 5:1 mechanical advantage system. Just flip the kit end to end for either advantage as needed. Also included are two SMC Lite Steel carabiners, a 5 mm oval screw link, and a PMI accessory cord lanyard which releases or sets the progress capture cam. This entire kit comes in a compact storage bag and is everything you need to quickly deploy a strong mechanical advantage system.

**System Features:** Pre-rigged system provides either a 4:1 or 5:1 mechanical advantage • Built-in progress capture system • Features the SMC Advance Tech HX and Tech Mate pulleys • Both pulleys made from high quality anodized aluminum • Kit includes 10 meters of 9 mm PMI® Classic Professional EZ-bend rope • Pulleys can accommodate rope diameters from 7 mm to 12.5 mm)

Weight: 3.15 lbs (1.430 kg)

KT36158 \$410.00

BERRY COMPLIANT



Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

Tandem Prusik Belay Kit  **MADE IN THE USA**

Tandem prusiks are a common tool for belaying heavy loads. This kit has everything you need to set up a Tandem Prusik Belay, including the Radium Release Hitch. Read about the advantages of the Radium Release Hitch in the paragraph on the next page titled "Releasing the Load."

**Key Features:** Includes a PMI® Radium Release Hitch Kit • 3" SMC PMP pulley (page 72) • 2, 8 mm Sewn Prusik

**Weight:** 2.81 lbs (1.270 kg)

**KT36075 \$242.00**



Tandem prusik belay set ups, when operated properly, are used to arrest or hold the load in lowering and raising systems.



Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

# Kits

Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

## Radium Release Hitch Kit



Radium Release Hitches have been proven to out-perform load release straps time after time. The Radium has greater extension (9+ ft) and better control and it can never fuse together under shock load the way that load release straps can. Carabiners are part of the system, simplifying your rigging.

**Key Features:** 9+ ft extension • Can't "fuse" under shock loads • Integral carabiners • Pre-tied with 8 mm accessory cord for convenience (page 24) • Comes in a convenient storage pouch • Hook and loop fasteners hold carabiners in place for fast deployment • Instructions to re-tie hitch

Weight: 1.81 lbs (816 g)

KT36074 \$110.00



### RELEASING THE LOAD

A Load-Releasing Hitch (LRH) is typically tied with accessory cord and rigged between the anchor and a tandem prusik belay or any device that can not easily be released when loaded. An effective load release mechanism must be able to sustain a significant shock load and still be used to safely release tension in the belay system by extending up to several meters. For many rescue teams, the Radium Release Hitch is the preferred LRH. An LRH serves two primary purposes:

- 1) If the belay line becomes loaded accidentally, the LR hitch can be used to shift the load back to the main line and "release" the load on the belay.
- 2) The LR hitch can be used for load transfer purposes other than belaying, such as knot passing, changing over from a raising system to a lowering system, or from a lowering system to a raising system. An LRH placed between anchors and load bearing devices like belays, rope grabs, and descenders can make it easy to recover from rigging snafus without extensive system adjustments.

While there are other load release systems out there (load release strap, mariners straps, etc.), none have been proven as safe and effective as the Radium.





PMI®/SMC Deluxe Haul System 

Compact and strong, this pre-rigged haul system can be rigged as a 4:1 or 5:1; just flip it end to end. The end of the PMI® 9 mm Classic Professional rope is attached to the system instead of free floating.

**System Features:** 2 SMC Micro PMP Pulleys • 2 SMC Lite Steel Carabiners • 10 m, 9 mm Classic Professional (page 6) • 2 m, 6 mm Accessory Cord (page 24) • One 5 mm Oval Screw Link (page 70) • 1 Storage Bag (Blue)

*Weight:* 3.10 lbs (1.400 kg)

**KT36077                      \$350.00**

*Made with 9 mm Classic Professional (page 6) for better grippability!*

PMI®/SMC JR Haul System 

The same haul advantage as the Deluxe system, but in a lighter package. The pre rigged 4:1 or 5:1 haul system come with SMC's new JRB mini pulleys (page 74).

**System Features:** 1 SMC JR Pulley and 1 SMC JRB Pulley (page 74) • 2 SMC Aluminum Carabiners • 10 m, 7 mm Tuff Cord (page 26) • 1 m, 5 mm Accessory Cord (page 24) • One 5 mm Oval Screw Link (page 70) • 1 Storage Bag (Blue)

*Weight:* 1.85 lbs (840 g)

**KT36128                      \$185.00**



*Made with 7 mm Tuff cord (page 26) for less sheath slippage!*

# Patient Care

At the core of every rescue is patient care. As a rescuer, you take seriously your responsibility to assist the people who need your help. PMI understands the determination that drives you. That's why we work hand in hand with our friends at Cascade, Skedco, and heightec® to bring you gear that is designed with your safety, and the safety of others, always at the forefront.



## Cascade Rescue Specialist Litter

This litter is nothing short of a workhorse full of the best features. It is made with a tough, specially blended HDPE skin over a reinforced aluminum railing and also includes "soft-eye" lifting points. The bottom is smooth with two centrally located runners designed to slide over the most difficult terrain. Inside, the Rescue Specialist is fitted with the Trademark FastPax Rails with QuickTab Straps and then finished off with durable foam padding for the patient. The Rescue Specialist Litter has a lift capacity of 2500 lbs. - yet weighs only 30 lbs.

Requires carabiners for proper use.

**Key Features:** Large grommeted holes for large carabiners • Rigid and scratch resistant shell • Heavy duty soft-eye harness attachment points • Heavy duty patient pad • Heavy duty foot stabilizer • UV Inhibitors • Aluminum top rail • Rated to 2500 lbs

Height: 5.00" (12.7 cm) » Width: 26.00" (66.0 cm) »  
Length: 86.00" (218.4 cm) » Weight: 30.00 lbs (13.610 kg)

PE42182

\$650.00



## Cascade Professional Series

Technically advanced and nearly indestructible, the Cascade Professional Litter is built with a stainless steel or steel body and cross members for the most extreme rescue conditions. This reasonably priced litter features a patient contour support which is molded and padded for patient comfort.

**Key Features:** Stainless Steel Litter has 4 Articulating Lift Points • 3/4" frame and supporting cross members and 3/8" secondary railing • Powder coated • Integral backboard • UV resistant polyethylene mesh liner • Tapered or rectangular shape • One or two piece • Two piece version uses the FastLock System • Available with PMI® FAST (page 114) installed

Height: 6.25" (16.0 cm) » Width: 25.50" (64.8 cm) » Length: 83.00" (211.0 cm)

### Steel One Piece

Weight: 31.00 lbs (14.061 kg)

Tapered	PE42040	\$450.00
Rectangular	PE42143	\$450.00

**BERRY COMPLIANT**

### Stainless One Piece

Weight: 31.00 lbs (14.061 kg) »

Weight with PMI® FAST: 35.00 lbs (15.876 kg)

Tapered	PE42041	\$700.00
Tapered w/ PMI® FAST	PE42116	\$988.00
Rectangular	PE42144	\$700.00
Rectangular w/ PMI® FAST	PE42151	\$985.00

**BERRY COMPLIANT**

**COMPLIANT**

NFPA 1983 (2012)

### Stainless Two Piece

Weight: 32.00 lbs (14.515 kg) »

Weight with PMI® FAST: 36.00 lbs (16.329 kg)

Tapered	PE42042	\$1,025.00
Tapered w/ PMI® FAST	PE42097	\$1,310.00
Rectangular	PE42145	\$1,025.00
Rectangular w/ PMI® FAST	PE42152	\$1,310.00

**BERRY COMPLIANT**

**COMPLIANT**

NFPA 1983 (2012)



Coupler Lock Button is standard on all Two Piece Litters.

All Cascade litters except the Professional Steel One Piece Litters (PE42040 and PE42143) feature four standard Articulating Lift Points - ALP's (Patented). ALP's may be used for either vertical or horizontal lift. Rated at 2,000 lbs per ALP, they can rotate about the top rail and be used for virtually any load bearing work.



## Rigid Litters and Accessories

 **MADE IN THE USA**

### Cascade Professional Series Titanium

When the best possible combinations of high strength and light weight are your priority, choose a Cascade Titanium Litter. The most advanced features of any rescue litter available today. Saving 12 lbs over the stainless steel model, this litter is designed for the demanding professional.

**Key Features:** Titanium frame • 4 Articulating Lift Points • 3/4" frame and supporting cross members and 3/8" secondary railing • Integral backboard • UV resistant polyethylene mesh liner • Tapered or rectangular shape • One or two piece, two piece version uses the FastLock System • Available with PMI® FAST (page 114) installed

Height: 6.25" (16.0 cm) » Width: 25.50" (64.8 cm) » Length: 83.00" (211.0 cm)

#### One Piece

Weight: 13.75 lbs (6.237 kg) » Weight with PMI® FAST: 17.75 lbs (8.051 kg)

Tapered	PE42099	\$2,125.00
Tapered w/ PMI® FAST	PE42118	\$2,410.00
Rectangular	PE42141	\$2,125.00
Rectangular w/ PMI® FAST	PE42149	\$2,410.00

#### Two Piece

Weight: 14.90 lbs (6.759 kg) » Weight with PMI® FAST: 18.90 lbs (8.573 kg)

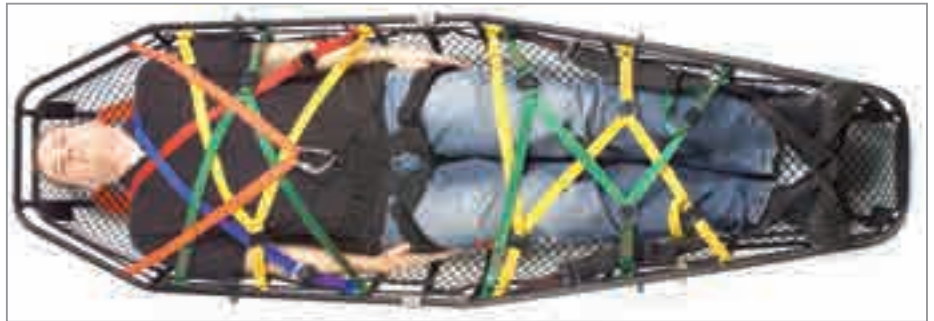
Tapered	PE42095	\$2,650.00
Tapered w/ PMI® FAST	PE42117	\$2,935.00
Rectangular	PE42142	\$2,650.00
Rectangular w/ PMI® FAST	PE42150	\$2,935.00

**BERRY COMPLIANT**

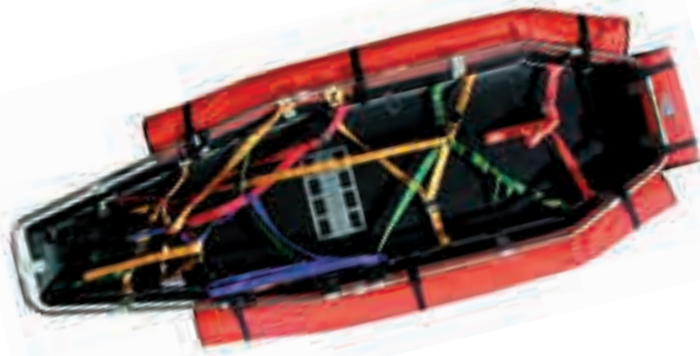
**COMPLIANT**

**NFPA 1983 (2012)**

All Cascade Litters have been tested to meet a minimum working load strength of 2500 lbs in a four point harness from the railings.



Choose the PMI® FAST (page 114) system with any of the Cascade Litters. Installation is free!



### Cascade Litter **MADE IN THE USA** Flotation System

Designed to fit all Cascade Professional Series Litters and Advance Series Litters. Made to keep patient's head above water. Easily attached and removed for storage, this Flotation System is ideal for ocean, lake, and swiftwater rescue.

**Key Features:** Capable of floating the litter, patient, and at least one rescuer • Will also fit most other manufacturers' tube frame litters

Weight: 11.00 lbs (5.000 kg)

PE42140 \$375.00

### Cascade Trail Tech **MADE IN THE USA**

All the features, without the weight! Attaching to any litter, the straps loop around and the hooks connect back to the saddle. Once your patient is loaded, the wheel assembly virtually locks on in less than two seconds and won't come off unless you unlock it.

**Key Features:** Aircraft aluminum • Sealed disk brake • Sealed bearings • Ratchet levers for a sure fit • Trail Tech wheel is interchangeable with Terrain Master wheel

Weight: 20.00 lbs (9.070 kg)

Wheel for 3/4" top rail w/ Brake Lever Clamp	PE42087	\$945.00
Wheel for 5/8" top rail w/ Brake Lever Clamp	PE42133	\$945.00

Now comes with Disk Brakes.





## Litter Skin

Beauty that is more than skin deep! Get double duty from your Professional Series Litters (pages 109-110). If your rescue scenario demands low-incline work across snow, ice, rock, or anything abusive and rough, this is your solution. Simply attach the Pro Skin to your Professional Series Litter (pages 109-110) and you are ready for action. Constructed of a proprietary blend of super durable Hi-Density Poly with easy on/off attachment points.

**Key Features:** Constructed of a proprietary blend of HDPE • Easy on/off attachment points

*Weight: 8.00 lbs (3.630 kg)*

<b>Tapered</b>	<b>PE42177</b>	<b>\$229.95</b>
<b>Rectangle</b>	<b>PE42181</b>	<b>\$229.95</b>



## Replacement Mesh Liner

Replacement flexible mesh liners to fit Cascade and most other brands of basket style litters. Can even be used to replace the knuckle busting “chicken wire” mesh still found on some litters.

**Key Features:** Plastic coated flexible mesh • Include zip ties for attachment • fits tapered and rectangular litters

*Weight: 2.50 lbs (1.134 kg)*

<b>One Piece</b>	<b>PE42147</b>	<b>\$45.00</b>
<b>Two Piece</b>	<b>PE42148</b>	<b>\$51.15</b>

*Note: Not Shown*

## One Piece Litter Storage Bag

Designed to protect your litter from sun, rain, and snow; even while stored on top of your rescue vehicle. Designed with extra room for other rescue gear to be stored inside the bag.

**Key Features:** Made from 18 oz vinyl • Wide webbing carrying handles • Weatherproof closure

*Weight: 2.50 lbs (1.130 kg)*

**PE42164**      **\$195.00**



## Cascade Abrasion Guard

If your working environment demands extended periods of dragging or sliding over rocks, snow, ice, and other rough terrain, Abrasion Guard helps reduce drag and protects the bottom of your Advance Series Litter (pages 112-113).

**Key Features:** Superior protection

*Weight: 3.00 lbs (1.360 kg)*

**PE42090**      **\$75.00**



## Rigid Litters and Accessories

### Cascade Advance Series Model 200

This is the ultimate small team response litter. With so many choices, there is an Advance Series Litter to fit any need. Crafted of hand laminated composites, its shape, handrails, and ample brackets provide maximum victim protection and comfort as well as optimum maneuverability for the litter attendant.

**Key Features:** 5/8" Top Rail • Four, 1" Patient Restrain Straps to securely immobilize the patient to the bed of the litter • Stainless Steel handrails and ample brackets • Excellent vertical raise handling characteristics • Includes litter pad and FastPax rails • At home on snow, rock, ice, or asphalt • Outer color: International Orange

*Height: 5.50" (14.0 cm) » Width: 21.50" (54.6 cm) » Length: 82.00" (208.3 cm)*

#### One Piece

*Weight: 17.50 lbs (7.938 kg) » Weight with PMI® FAST: 21.50 lbs (9.752 kg)*

<b>Cascade 200 Advance</b>	<b>PE42121</b>	<b>\$1,065.00</b>
<b>with PMI® FAST</b>	<b>PE42128</b>	<b>\$1,350.00</b>

#### Two Piece

*Weight: 19.00 lbs (8.620 kg) » Weight with PMI® FAST: 23.00 lbs (10.433 kg)*

<b>Cascade 200 Advance</b>	<b>PE42122</b>	<b>\$1,340.00</b>
<b>with PMI® FAST</b>	<b>PE42120</b>	<b>\$1,625.00</b>

**BERRY COMPLIANT**



### Cascade Advance Series MAX

This is the ultimate small team response litter. With so many choices, there is an Advance Series Litter to fit any need. Crafted of hand laminated composites, its shape, handrails, and ample brackets provide maximum victim protection and comfort as well as optimum maneuverability for the litter attendant. This MAX version will accommodate any 16" wide backboard.

**Key Features:** Patent Pending Articulating Lift Points • 3/4" Top Rail • Four, 1" Patient Restrain Straps to securely immobilize the patient to the bed of the litter • Stainless Steel handrails and ample brackets • Excellent vertical raise handling characteristics • Includes litter pad and FastPax rails • At home on snow, rock, ice, or asphalt • Outer color: International Orange

*Height: 6.25" (15.2 cm) » Width: 25.00" (63.5 cm) » Length: 82.00" (208.3 cm)*

#### One Piece

*Weight: 24.00 lbs (10.866 kg) »*

*Weight with PMI® FAST: 28.00 lbs (12.701 kg)*

<b>Cascade MAX Advance</b>	<b>PE42124</b>	<b>\$1,065.00</b>
<b>with PMI® FAST</b>	<b>PE42115</b>	<b>\$1,350.00</b>

#### Two Piece

*Weight: 26.00 lbs (11.79 kg) »*

*Weight with PMI® FAST: 30.00 lbs (13.608 kg)*

<b>Cascade MAX Advance</b>	<b>PE42125</b>	<b>\$1,340.00</b>
<b>with PMI® FAST</b>	<b>PE42096</b>	<b>\$1,625.00</b>

**BERRY COMPLIANT**



### Cascade Advance Series Model 200 Confined Space

The new narrow version of the ultimate small team response litter. Designed specifically for use in confined space situations, this litter maintains all the great usable features of the traditional Advance series litters. Crafted from hand laminated composites, it provides excellent subject protection and easy maneuverability for the litter attendants. A great choice for urban, industrial, cave and/or mountain rescues when space is limited.

**Key Features:** All Cascade Advance litters come with removable pad and aluminum FastPax Rails • Four patient restraint straps for quick, secure subject immobilization • Abrasion resistant shell • Stainless Steel handrails/construction • Ample brackets • Bright orange exterior • Made in the USA

*Height: 5.00" (12.7 cm) » Width: 19.50" (49.5 cm) » Length: 82.00" (208.3 cm)*

#### One Piece

*Weight: 17.50 lbs (7.938 kg) » Weight with PMI® FAST: 21.50 lbs (9.752 kg)*

<b>Cascade 200 CS</b>	<b>PE42179</b>	<b>\$875.00</b>
<b>with PMI® FAST</b>	<b>PE42187</b>	<b>\$1,350.00</b>

#### Two Piece

*Weight: 19.00 lbs (8.620 kg) » Weight with PMI® FAST: 23.00 lbs (10.433 kg)*

<b>Cascade 200 CS</b>	<b>PE42184</b>	<b>\$1,340.00</b>
<b>with PMI® FAST</b>	<b>PE42188</b>	<b>\$1,625.00</b>

**BERRY COMPLIANT**



### Cascade Terrain Master

The Terrain Master wheel delivers a smooth ride in the toughest terrain. Ideal for rough, muddy, sandy, or snow covered trails. Interchangeable with Cascade wheel saddle assembly.

**Key Features:** Aircraft aluminum • Aluminum wheel rim • New improved lightweight sealed hub • Two piece construction for easy packing • Saddle fits almost any rigid litter • Wheel with tire quickly mounts to the saddle without tools • Terrain Master wheel is interchangeable with Trail Tech wheel

*Weight: 31.00 lbs (14.060 kg) »*

*Weight Wheel Only: 24.00 lbs (10.890 kg)*

<b>Wheel w/ assembly</b>	<b>PE42138</b>	<b>\$945.00</b>
<b>Wheel only</b>	<b>PE42139</b>	<b>\$612.00</b>



## Cascade Advance Series Titania Model 200



This Advance Series litter is exceptionally strong yet flexible, weighing in at only about 14 lbs. The shell is extremely abrasion resistant because of its hand laminated composites. Its shape, handrails, and ample brackets provide maximum victim protection and comfort as well as optimum maneuverability for the litter attendant. This litter also features tough titanium construction.

**Key Features:** 3/4" Top Rail • Four, 1" Patient Restrain Straps to securely immobilize the patient to the bed of the litter • Titanium handrails and ample brackets • Excellent vertical raise handling characteristics • Includes litter pad and FastPax rails • At home on snow, rock, ice, or asphalt • Outer color: International Orange

Height: 5.50" (14.0 cm) » Width: 21.50" (54.6 cm) » Length: 82.00" (208.3 cm)

### One Piece

Weight: 13.50 lbs (6.123 kg) » Weight with PMI® FAST: 17.50 lbs (7.938 kg)

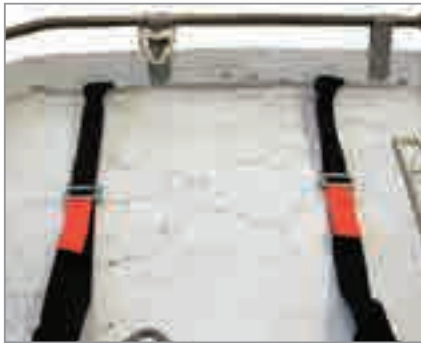
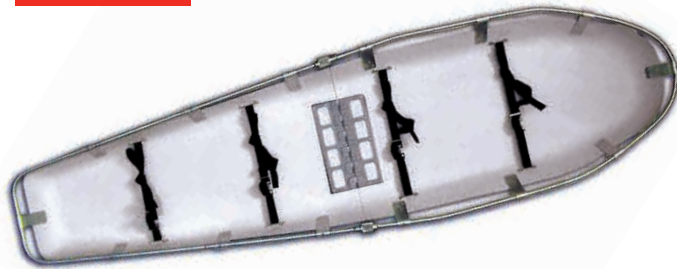
<b>Cascade 200 Titania Advance</b>	<b>PE42169</b>	<b>\$1,765.00</b>
<b>with PMI® FAST</b>	<b>PE42168</b>	<b>\$2,050.00</b>

### Two Piece

Weight: 15.50 lbs (7.030 kg) » Weight with PMI® FAST: 19.50 lbs (8.845 kg)

<b>Cascade 200 Titania Advance</b>	<b>PE42170</b>	<b>\$1,965.00</b>
<b>with PMI® FAST</b>	<b>PE42167</b>	<b>\$2,250.00</b>

**BERRY COMPLIANT**



FastPax Rails are ten 5" long loops constructed of heat treated high tensile strength aluminum line on each side of the litter allowing the litter to be used as a true backboard.



## Cascade Advance Series TitaniumMAX



This Advance Series litter is exceptionally strong yet flexible, weighing in at only about 20 lbs. The shell is extremely abrasion resistant because of its hand laminated composites. Its shape, handrails, and ample brackets provide maximum victim protection and comfort as well as optimum maneuverability for the litter attendant. This litter also features tough titanium construction. Includes the trademarked Cascade Rescue FastLock system for rapid, 10 second takedown/reassembly.

**Key Features:** Patent Pending Articulating Lift Points • 3/4" Top Rail • Four, 1" Patient Restrain Straps to securely immobilize the patient to the bed of the litter • Titanium handrails and ample brackets • Excellent vertical raise handling characteristics • Includes litter pad and FastPax rails • At home on snow, rock, ice, or asphalt • Outer color: International Orange

Height: 6.25" (16.0 cm) » Width: 25.00" (63.5 cm) » Length: 82.00" (208.3 cm)

### Two Piece

Weight: 19.50 lbs (8.845 kg) » Weight with PMI® FAST: 23.50 lbs (10.659 kg)

<b>Cascade TitaniumMAX Advance</b>	<b>PE42126</b>	<b>\$1,965.00</b>
<b>with PMI® FAST</b>	<b>PE42119</b>	<b>\$2,250.00</b>

**BERRY COMPLIANT**

## Cascade Advance Series Titania Model 200 Confined Space



The new titanium narrow version of the ultimate small team response litter. Designed specifically for use in confined space situations, this litter maintains all the great usable features of the traditional Titania Advance series litters. Crafted from hand laminated composites, it provides excellent subject protection and easy maneuverability for the litter attendants. A great light weight choice for urban, industrial, cave and/or mountain rescues when space is limited.

**Key Features:** All Cascade Advance litters come with removable pad and aluminum FastPax Rails • Four patient restraint straps for quick, secure subject immobilization • Abrasion resistant shell • Titanium handrails/construction • Ample brackets • Bright orange exterior • Made in the USA

Height: 5.00" (12.7 cm) » Width: 19.50" (49.5 cm) » Length: 82.00" (208.3 cm)

### One Piece

Weight: 13.50 lbs (6.123 kg) » Weight with PMI® FAST: 17.50 lbs (7.938 kg)

<b>Cascade 200 CS</b>	<b>PE42185</b>	<b>\$1,765.00</b>
<b>with PMI® FAST</b>	<b>PE42189</b>	<b>\$2,050.00</b>

**BERRY COMPLIANT**



## Rigid Litters and Accessories

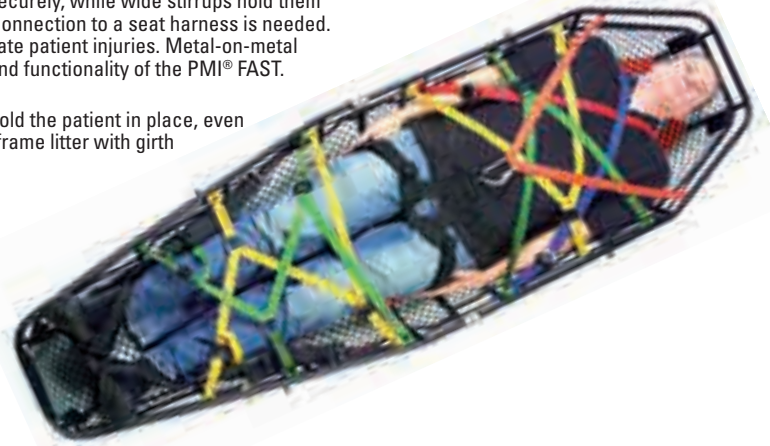
### PMI® FAST MADE IN THE USA

The PMI® FAST pre-installed in your litter allows you to lash in a patient in a fraction of the time it takes the traditional way. Color coded shoulder and leg straps hold the patient securely, while wide stirrups hold them toward the head. A quick secure connection is also provided when a connection to a seat harness is needed. Individual straps can be quickly repositioned in the field to accommodate patient injuries. Metal-on-metal buckles mean a secure connection. You will be amazed at the speed and functionality of the PMI® FAST. Litter in photo not included.

**Key Features:** Accommodates an injured body part • Shoulder straps hold the patient in place, even in a head-down position • No knot tying • Attaches to almost any rigid frame litter with girth hitches • Each of the eight buckles is rated for a 200 lb load

Weight: 3.70 lbs (1.670 kg)

PE42059 \$285.00



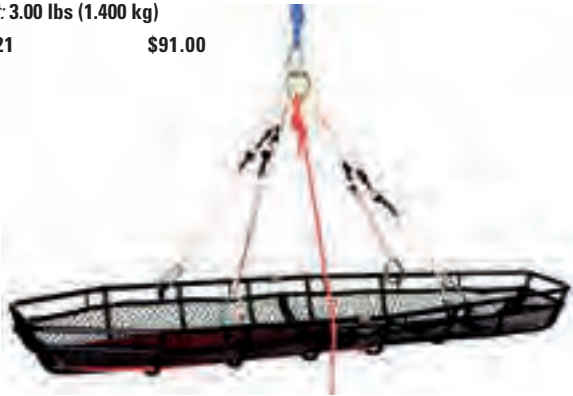
### PMI® Classic Spyder MADE IN THE USA

Adjustable 4 leg litter spider made from 10 mm PMI® Classic static rope (page 6) and 6 mm prusik cord tied on a forged O-ring. Litter and carabiners in photo not included.

**Key Features:** Legs are independently adjustable • User can add the PMI®/SMC Deluxe or JR Haul System to convert this to a litter scoop system • Comes with 4 meter long attendant line and storage bag

Weight: 3.00 lbs (1.400 kg)

PE42021 \$91.00



### PMI® Spyder Web MADE IN THE USA

Adjustable 6 leg litter spider package consisting of two rigging plates, six PMI® Pickoff Straps (page 42), 9 locking steel carabiners, 4 meters of 11 mm PMI® attendant line, tether, and storage bag. Requires additional 6 carabiners to connect to litter. Litter in photo not included.

Weight: 13.75 lbs (6.240 kg)

PE42028 \$781.95



### PMI® Tarantula MADE IN THE USA

Adjustable 4 leg webbing litter spider sewn onto a forged O-ring. Litter and carabiners in photo not included.

**Key Features:** Legs are independently adjustable • Sewn from heavy duty webbing • Comes with 4 meter long attendant line and storage bag

Weight: 4.63 lbs (2.100 kg)

PE42020 \$163.00



### Cascade Two Piece Litter Backpack

Designed to protect your litter from sun, rain, and snow; even while stored on top of your rescue vehicle. Designed with extra room for other rescue gear to be stored inside the bag.

**Key Features:** Made from Cordura® • Padded adjustable shoulder straps • Weatherproof closure • Compression straps for load stabilization

Weight: 6.50 lbs (2.950 kg)

PE42165 \$187.00



Sked® Basic Rescue System 

A complete solution for confined space, high angle, technical rescue, and traditional land based applications. The durable plastic litter provides protection for the patient while allowing extrication through the most demanding confined spaces. The stretcher is rolled for storage in a tough Cordura® backpack (included). Sked® Stretcher becomes semi-rigid when wrapped around the patient.

**Key Features:** System includes: Sked® Stretcher, Cordura® backpack/towing harness, horizontal lift slings, 30 ft PMI vertical lift line, steel Locking D Carabiner, 6 ft tow strap, 4 built in handles

Width: 36.00" (91.4 cm) » Length: 96.00" (243.8 cm) » Weight: 17.00 lbs (7.710 kg)

Orange SK2002 \$614.95



with Cobra® Buckles 

The original and still the best solution for confined space, high angle, and land based rescues. Provides outstanding patient protection and security. Includes the Austrian-made Skedco/Cobra® side release buckles. Comes equipped for horizontal hoisting by helicopter or for vertical hoisting in caves or industrial confined spaces.

**Key Features:** Skedco/Cobra® buckles rated at 3000 lbs • Durable plastic provides patient protection • Stretcher rolls up for storage in a tough Cordura® backpack • Also includes: Horizontal Lift Slings, Tow Strap, Removable Webbing Handles, Steel Locking D Carabiner, and a Vertical Lift Sling

Width: 36.00" (91.4 cm) » Length: 96.00" (243.8 cm) » Weight: 19.00 lbs (8.620 kg)

Orange SK200COR \$759.95

Sked® Cobra® Buckle Conversion Kit

A quick connect/quick release buckle for the Sked®. These Austrian-made buckles are rated at 3000 lbs. Durable and easy to use, yet when under tension accidental release is not an issue. In addition, patient packaging is fast because you do not need to weave the webbing through buckles. This retrofit kit fits the Sked® you already have.

**Key Features:** Faster Patient Packaging • Austrian-made • Durable and Easy to Use

MBS: Buckle - 13.3 kN (3000 lbf)

Black SK208C \$195.00



## Flexible Litters and Accessories

### Sked® Foam Flotation Package



This self-righting flotation system maintains the Sked® in a nearly vertical position even in rough water. Two rigid foam side floats and an inflatable chest bladder provide buoyancy sufficient to support two rescuers in addition to the patient.

**Key Features:** 15 lb foot ballast bag • Two rigid foam floats • Inflatable chest bladder

**Weight:** 17.00 lbs (7.710 kg)



Orange SK6000R \$378.27

COMPLIANT CE



### Sked® Rapid Deployment Conversion Kit

Skedco also offers a Rapid Deployment Conversion Kit which includes everything for rapid deployment except the stretcher, for those who already possess the Sked® Basic Rescue System.

**Weight:** 16.00 lbs (7.257 kg)

Orange SK6510R \$646.35

Sked® Rapid Deployment System 

This unique system features a Sked® Stretcher pre-rigged for extremely rapid deployment into the water. Using CO2 inflatable float logs, this system can be in the water, ready to use in less than 30 seconds. A patient can be packaged and ready for retrieval in less than 30 seconds. The Rapid Deployment System, designed especially for Marine, Navy, and Coast Guard use, puts the Sked® Stretcher together with the Sked® Inflatable Flotation System in a large custom duffel bag. The system is maintained fully rigged in the bag. When deploying the system the user simply unzips the duffel bag, triggers the CO2 cartridges, pulls two straps, and drops the ready to use system in the water.

Weight: 36.00 lbs (16.329 kg)

Orange SK6500R \$1230.56

COMPLIANT CE



HMH Sked® 

The HMH Sked® is designed for use in mass casualty incidents or Haz-Mat incidents. Patients can be rolled or dragged onto the HMH Sked® rather than lifted. This creates less rescuer fatigue and requires fewer rescuers to be exposed in the Hot Zone at a Haz-Mat incident. The HMH Sked® can be easily dragged by personnel wearing level A protection or even pulled by a rope connected outside the Hot Zone.

**Key Features:** No grommets to trap contaminants • Stores flat in stacks of up to 200 • Ideal for use in mass casualty incidents • Polypropylene straps are chemical resistant • 2" Side release buckles • Not for lifting patients

HMH Sked® w/strap kit	13.00 lbs (5.900 kg)	SK250	\$326.73
HMH Sked®, body only	11.00 lbs (4.990 kg)	SK251	\$266.63
Rapid Deployment Case	4.00 lbs (1.820 kg)	SK253	\$109.27

COMPLIANT CE



## Flexible Litters and Accessories

### Oregon Spine Splint **MADE IN THE USA**

Oregon Spine Splint helps to safely remove patients from injury sites without doing further damage to the spine.

**Key Features:** Can be re-configured to retract and immobilize the shoulders • Easy access to the patient's chest and abdomen • Use in place of a conventional short backboard • Doubles as a hip or leg splint • Collar strap • Forehead restraint (with ten disposable covers) • Head padding • Carrying case • Includes a Shoulder Board (not shown) to help prevent shoulder compression when using a Sked® litter

**Weight: 10.10 lbs (4.600 kg)**

**Orange SK300 \$224.01**

**COMPLIANT CE**



### Half Sked® Patient Drag **MADE IN THE USA**

Made from the same durable Sked® material, but only half as long as the original Sked®. It allows patients to bend at the hips, providing greater flexibility in the most demanding and tight spaces. Not to be used as a hoisting or immobilization device.

**Key Features:** Perfect for tight spaces • Allows greater flexibility • 2" wide chest and leg straps with easy release buckles

**Weight: 8.00 lbs (3.700 kg)**

**Orange SK220 \$194.10**

**COMPLIANT CE**





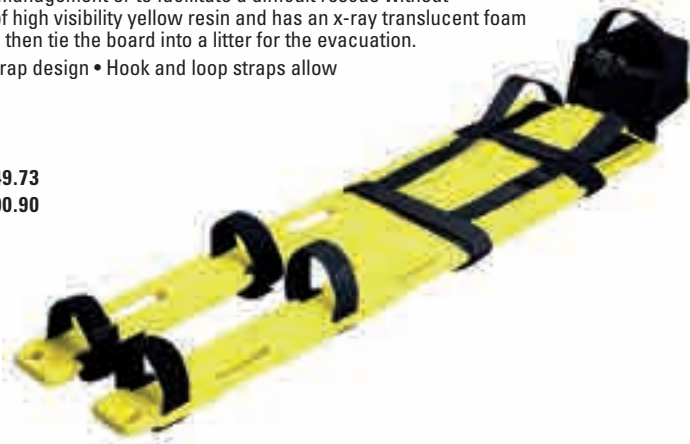
## LSP Miller Full Body Splint

The Miller Board is a versatile spinal immobilization board and litter that comes complete with a full head and body harness. The harness system allows the patient to be rotated for airway management or to facilitate a difficult rescue without jeopardizing spinal alignment. The Miller board is constructed of high visibility yellow resin and has an x-ray translucent foam core. The Miller Board can be used to extricate the patient, and then tie the board into a litter for the evacuation.

**Key Features:** Chest straps • Head harness • Unique shoulder strap design • Hook and loop straps allow rapid immobilization of a patient

Height: 3.75" (9.5 cm) » Width: 14.00" (35.6 cm) » Length: 65.50" (166.4 cm) » Weight: 15.00 lbs (6.810 kg)

<b>Splint</b>	PE42067	\$849.73
<b>Carry Bag</b>	PE42068	\$200.90



## LSP Miller Half Back

Rescuers have found the LSP Half Back Splint Harness an effective tool for vertical extrication from confined spaces. The Halfback provides spinal immobilization complete with head support.

**Key Features:** Leg straps for lower body support • Head harness • Six handles allow easy maneuvering • Compatible with the LSP Miller Full Body Splint

Weight: 12.20 lbs (5.530 kg)

<b>LSP Miller Half Back</b>	PE42069	\$1,076.25
<b>Carry Bag</b>	PE42070	\$133.59
<b>Vertical Lift Straps</b>	PE42071	\$237.08

## LSP XTRA Backboard

This patented backboard has been designed to provide 100% x-ray translucence while maintaining the necessary rigidity to protect the patient from further injury during transport. A fully sealed one-piece construction makes it fluid resistant while the HDPE surface allows for easy cleaning and disinfecting. Fits into any standard ambulance compartment. Easy to carry with 18 large hand holds. The XTRA also has high buoyancy for use in water rescues.

**Key Features:** Made from high-density polymer • Floats up to a 200 lb. person • Maximum weight capacity 500 lbs • Works with all head immobilizers and strapping systems • Very lightweight at 15.25 lbs

Width: 15.75" (40.0 cm) » Length: 71.00" (180.3 cm) » Weight: 15.25 lbs (6.917 kg)

PE42193	\$141.24
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# Logistics and Support Gear

PMI offers many products to help you store and protect your equipment and gear. We also offer books to challenge and educate you. PMI sews our own bags in our U.S. manufacturing plant. PMI also offers measurement equipment and rescue kits. Check out this section for the equipment you need to get the job done right.



Photo Trask Bradbury

## Rope Bag Capacities

Max Rope Length for PMI® Hudson Classic Professional

PRODUCT SIZE	10 MM	11 MM	12.5 MM	16 MM	DIAMETER	WALL HEIGHT	VOLUME (cubic inches)
Personal	12 m				5.5" base tapered to 8"		180
Small	80 m	70 m	46 m	30 m	10.5"	14.5"	1256
Standard	120 m	100 m	75 m	61 m	10.5"	21.5"	1862
Large	160 m	120 m	92 m	75 m	10.5"	25"	2165
X-Large	250 m	200 m	170 m	140 m	16.5"	24"	5132
XX-Large	285 m	230 m	200 m	160 m	16.5"	28"	5987

## PMI® H2-Throw Bag

Lightweight nylon throw bag for creating your own H2-Throw with your PMI rope of choice.

**Key Features:** Includes foam disc in the bottom for flotation • Grommet at bottom

*Weight: 3.3 oz (91 g) » Width: 6.00" (15.2 cm) » Length: 13.00" (33.0 cm)*

**Orange**  
RB44032                      \$16.20



*This bag does not include rope.*

## Gear Bucket



This new PMI® Gear Bucket can hold all of your gear and literally stand up to the test. Plastic reinforced stays keep the bucket upright while stacking your rope inside. Semi-rigid sides make it great for feeding line throwing devices right from the bag with minimal drag on the line.

**Key Features:** Store gloves, pulleys, cord, even snacks in the outside mesh pockets with Velcro® closures • Holds up to 70 m (230 ft) of 11 mm; 46 m (150 ft) of 12.5 mm; or 30 m (100 ft) of 16 mm rope

*Weight: 1.45 lbs (658 g) » Width: 11.00" (27.9 cm) » Length: 14.00" (35.6 cm)*

**Red**  
RB44049                      \$54.00



## PMI® Gear Pocket

This Cordura® gear pocket is designed to organize pulleys, gloves, carabiners, prusiks, or any small sized gear without overloading your gear loops. It is also excellent for emergency kit use. Internal mesh divider keeps gear organized and internal adjustable loops secure gear and prevents it falling out even while inverted. The creative attachment system fits over the waistbelt of any PMI harness and allows for snug security, while the top loading design makes for easy access.

**Key Features:** Attaches to any harness with sleek padded Velcro® straps • 2 mesh pockets inside to keep gear in place • Perfect size for gloves, headlamp, food, or even a small hydration bladder

*Width: 10.00" (25.4 cm) » Length: 7.00" (17.8 cm) » Height: 1.50" (3.8 cm) » Weight: 3.5 oz (99 g)*

**Red**                      SG51150                      \$31.75  
**Black**                      SG51168                      \$31.75



## Rope Bags and Storage

### **New!** PMI® Magneta Bag

This sturdy bag is a great way to carry bull-pins and bolts, and attaches readily to your harness belt. A simple closure prevents accidental spills, while a magnetic plate on the front accommodates temporary storage on the outside of the pocket.

**Key Features:** Express closure • Easy to attach to the harness • Rigid opening • Magnetic plate for temporary tool storage

*Weight: 6.0 oz (170 g) » Height: 10.00" (25.4 cm) » Width: 8.00" (20.3 cm)*

**Black**

**RB44061**

**\$19.95**



### **New!** PMI® Grunt Bucket

The Grunt is your essential, suspendable assistant for every job at height. With a reinforced base, 5 gallon capacity, and a suspension handle capable of holding more than 200 pounds, this PVC fabric bucket is the perfect companion for carrying tools, materials, or even liquids during vertical work. THF Welding technology offers robust waterproof construction, while stiffeners maintain the shape of the large top opening. Internal pockets with magnetic closures help organize smaller tools.

**Key Features:** Easy access to tools • Clic clac pocket closure system • Rigid carrying handle • Watertight pocket • Reinforced base • Reflective coating on the side zipper for nighttime visibility

*Weight: 3.00 lbs (1.360 kg) » Sizing Info: 1695 cu in (27.8 L) » Width: 12.00" (30.5 cm) » Height: 15.00" (38.1 cm)*

**Black**

**RB44062**

**\$124.95**



*Bucket Interior.*

# Rope Bags and Storage

## PMI® Rope Bag

PMI's exclusive combination of features includes double sewn seams that reinforce the stress points when stuffing your favorite PMI rope. Four sizes to keep gear clean and organized.

**Key Features:** Double sewn seams • 1000 denier heavy coated Cordura® • Drawstring closure • 1" tubular handles with rope insert • 5/8" grommet on the side of the bag (except personal size) • Pocket for rope history card • Internal clip-in loop at bottom of bag

### Personal

Weight: 2.6 oz (75 g) » Width: 8.50" (21.6 cm) » Length: 12.00" (30.5 cm)

<b>Black</b>	<b>Orange</b>	
RB44025	RB44030	\$20.00

### Small

Weight: 9.0 oz (254 g) » Width: 10.50" (26.7 cm) » Length: 14.50" (36.8 cm)

<b>Orange</b>	<b>Black</b>	<b>Blue</b>	<b>Red</b>	
RB44009	RB44010	RB44011	RB44012	\$34.75

### Standard

Weight: 10.9 oz (309 g) » Width: 10.50" (26.7 cm) » Length: 21.50" (54.6 cm)

<b>Black</b>	<b>Blue</b>	<b>Red</b>	<b>Orange</b>	
RB44013	RB44014	RB44015	RB44026	\$37.00

### Large

Weight: 11.3 oz (320 g) » Width: 10.50" (26.7 cm) » Length: 25.00" (63.5 cm)

<b>Black</b>	<b>Blue</b>	<b>Red</b>	<b>Orange</b>	
RB44016	RB44017	RB44018	RB44027	\$40.00



Note: The Personal size PMI® Rope Bag has a Velcro® closure flap, a belt/clip loop, and does not have a grommet.

## PMI® Rope Pack

When you need a little extra help with the load, the PMI® Rope Pack will help make the haul easier. Padded backpack straps make carrying a loaded bag more manageable.

**Key Features:** Double sewn seams • 1000 denier heavy coated Cordura® • Drawstring closure • 1" tubular handles with rope insert, except XL and XXL • 5/8" grommet on the side of the bag (except personal size) • Pocket for rope history card • Internal clip-in loop at bottom of bag

### Standard

Weight: 1.02 lbs (463 g) » Width: 10.50" (26.7 cm) » Length: 21.50" (54.6 cm)

<b>Orange</b>	<b>Red</b>	<b>Blue</b>	<b>Black</b>	
RB44040	RB44041	RB44042	RB44043	\$53.75

### Large

Weight: 1.19 lbs (541 g) » Width: 10.50" (26.7 cm) » Length: 25.00" (63.5 cm)

<b>Black</b>	<b>Blue</b>	<b>Red</b>	<b>Orange</b>	
RB44019	RB44020	RB44021	RB44028	\$55.25

### X-Large

Weight: 1.22 lbs (553 g) » Width: 16.00" (40.6 cm) » Length: 23.00" (58.4 cm)

<b>Black</b>	<b>Blue</b>	<b>Red</b>	<b>Orange</b>	
RB44022	RB44023	RB44024	RB44029	\$59.50

### XX-Large

Weight: 1.25 lbs (567 g) » Width: 17.00" (43.2 cm) » Length: 28.50" (72.4 cm)

<b>Orange</b>	<b>Red</b>	<b>Blue</b>	<b>Black</b>	
RB44055	RB44056	RB44057	RB44058	\$61.50



Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

## Rope Bags and Storage

### PMI® Deluxe Rope Pack

If you need a bag that holds just about everything (minus a patient), the Deluxe Rope Pack can hold up to that task. This king size bag has all the bells and whistles to store well-loved gear.

**Key Features:** Roomy rope compartment • Double sewn seams • 1000 denier heavy coated Cordura® • Drawstring closure • Padded backpack straps • 5/8" grommet on bottom of bag • 2" webbing carrying handles • 2 Large outside pockets with snap buckle closure • Internal clip-in loop at bottom of bag

#### Large

Weight: 1.4 lbs (635 g) » Width: 10.50" (26.7 cm) » Length: 25.00" (63.5 cm)

<b>Orange</b>	<b>Blue</b>	<b>Red</b>	
RB44002	RB44004	RB44006	\$112.50



*The Deluxe Rope Pack has oversized pockets for storing extra gear.*

### PMI® PVC Gear Pack

Rugged PVC Gear Pack is just right for transporting hardware, pre-rigged systems, and other heavy gear. Durable material holds up better than other materials in harsh industrial, cave, or mountain environments.

**Key Features:** PVC Material • Roll down and buckle closure • Reinforced bottom for extra protection • 2" webbing backpack straps with adjustable buckles • Haul loop

#### Large

Weight: 1.68 lbs (762 g) » Width: 10.00" (25.4 cm) » Length: 21.00" (53.3 cm)

<b>Red</b>	
RB44039	\$46.00



## PMI® Duffel

With the same capacity as our large rope bag, the PMI® Duffel is generous enough to hold all your gear. Streamlined and super durable, this duffel can get everything packed up and ready to go in a flash.

**Key Features:** 1000 denier heavy coated Cordura® • Two outside storage pockets with Velcro® closure • Wrap around padded handle

*Weight: 1.13 lbs (513 g) » Width: 11.00" (27.9 cm) » Length: 25.00" (63.5 cm)*

**Red**

**SG51190**

**\$82.00**



## PMI® Riggers Bag

Storing gear can be a challenge, and keeping it organized almost impossible..... until now. The PMI® Riggers Bag is a soft-sided carrying case. A jumbo main compartment, plus five specially shaped external access pockets keep your hardware separate from your harness, gloves separated from straps, and there is even a special pocket for your helmet.

**Key Features:** 1000 denier heavy coated Cordura® • 6 zippered compartments • Detachable shoulder strap included • Padded handles • Clear ID holder

*Weight: 2.60 lbs (1.180 kg) » Width: 11.00" (27.9 cm) » Length: 24.00" (61.0 cm) » Height: 12.00" (30.5 cm)*

**Black**

**RB44031**

**\$96.00**





# Training and Education

PMI knows that the most important part of any work at height is YOU. That's why we work hard to stay on top of the most current innovations and regulations so that we can bring you the very best training and education possible. Check us out—and let us know what we can do to serve you better!

## A Complete Solution

Pigeon Mountain Industries' training and education arm, Vertical Rescue Solutions™, offers unparalleled expertise on access, rescue and PMI manufactured and distributed products. And at Vertical Rescue Solutions, we don't just teach rescue—we live it. With knowledge gleaned from a variety of disciplines (Fire, EMS, Mountain Rescue, Confined Space, Technical Rope Rescue, Cave Rescue, Rope Access, Industrial Rescue) and years of hands-on, real-life rescue experience, VRS™ instructors focus on saving lives through education and instruction.

## Consulting

In the often confusing and ever-changing world of safety compliance, we not only know the rules, we've helped write a few ourselves. PMI and VRS™ staff members are active participants in ANSI, NFPA, the Cordage Institute, NATE®, NWSA, SPRAT®, ASTM and ASSE. We offer much more than compliance training and consulting: Vertical Rescue Solutions can help establish a foundational culture of safety that begins at the end of a rope and extends past the anchor into the front office. Got a compliance, access, rescue pre-planning or work at height problem that you just can't solve? Drop us a line!

## VRS™ Custom Courses

Have rope, will travel! At VRS™, we understand that sometimes you need to have your employees trained where they work. We can tailor courses to serve the needs of your industry (or organization) and your location.

**For more information, please visit us at [www.verticalrescuesolutions.com](http://www.verticalrescuesolutions.com), visit our Facebook page or call us at 303-800-1708 ext 1221.**





### Competent Person PPE Inspector

No one knows your PPE and life safety gear like the people who manufacture and distribute it. PMI's Vertical Rescue Solutions™ can give you and your employees the information and resources to set up and maintain a PPE use and inspection documentation program for the gear you trust your life to.

This is an eight hour program designed to meet the OSHA guidelines for the establishment of a competent person inspector for personal protective equipment (PPE) within a given organization.

**The course will offer instruction on how to:** Select • Inspect • Store • Care for, and • Document the use of rope, webbing, harnesses, helmets and connectors.

Upon completion of this course, the participant will be able to set up and implement a gear inspection, use and retirement program for their organization. The proper fit and usage of PPE, and PPE for specialized applications will be covered as well.

**Prerequisites:** None » **Location:** 3850 York Street, Denver, CO 80205 » **Max Class Size:** 10 Students

**VR63020 \$575.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

**VR63021 \$5,865.00 Full Class at Your Location**

### Competent Tower Climber/Rescuer

At VRS™, we offer unparalleled custom instruction in tower climbing and rescue after a fall. This course was created to arm those who work at height with the tools, knowledge and expertise to climb safely, and to effect self or companion rescue quickly and efficiently using the revolutionary TowerPack™ Rescue Solution (ANSI Z359.4-2007). Stressing simplicity (no knots!) and a common-sense approach to rescue, the TowerPack™ Rescue Solution is designed to get the job done using a minimal amount of gear, thereby eliminating the head-scratching that can waste valuable seconds.

The field portion of the Competent Tower Climber/Rescuer course will teach the importance of 100% attachment, safe climbing techniques, fall arrest, self-rescue, companion rescue by raise, companion rescue by controlled descent and companion rescue by lowering using the TowerPack™ Rescue Solution. Suspension intolerance avoidance and treatment will also be addressed. The classroom session will focus on the importance of establishing a rescue pre-plan, OSHA compliance, PPE use, fit and inspection, Jobsite Hazard Analysis, and rescue theory. A strong emphasis on multiple repetitions of rescues is used to maintain a high level of participant retention.

This course follows the criteria established by the National Association of Tower Erectors (NATE®) Tower Climber Fall Protection Training Standard, Fourth Edition (2015 edition).

**Prerequisites:** Must be an Authorized Climber/Rescuer per the NATE® CTS, Fourth Edition (2015) » **Location:** 3850 York Street, Denver, CO 80205 » **Max Class Size:** 6 students per instructor

**VR63002 \$1,450.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

**VR63003 \$8,970.00 Full Class at Your Location**



*This is a three day course*



*This is a one day course*

### TowerPack™ Train the Trainer

The TowerPack™ Train the Trainer Course is designed to educate professional rope rescue trainers on the latest techniques for rescue after a fall using the TowerPack™ Rescue Solution (ANSI Z359.4-2007).

**This course will provide:** Additional insights • Course manuals • Tests • Skills checklists • Pre-packaged PowerPoint™ presentations • Equipment tips for trainers who want to teach their own TowerPack™ Rescue Solution Course

There will be a great deal of hands-on time in this course.

The field sessions will cover the best use of the TowerPack™ Rescue Solution for a variety of scenarios, emphasizing effective approaches to sharing this information with future students. Self-rescue, companion rescue by controlled descent, companion rescue by lowering, and familiarization with the dangers of suspension intolerance are covered. Upon completion, participants in this course will receive a certificate, reproducible course material and photo ID. They will also be listed on this website as VRS™ Approved Trainers for the TowerPack™ Rescue Solution.

**Prerequisites:** Before taking the Trainer Course, potential trainers must have successfully completed the VRS™ Competent Tower Climber/Rescuer Course » **Location:** 3850 York Street, Denver, CO 80205 » **Max Class Size:** 4 students per instructor

**VR63034 \$700.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

**VR63035 \$3,000.00 Full Class at Your Location**

**Portable High Directionals: Module I**

This is a basic one day rope technician introductory course that instructs participants in the use of portable anchor systems, focusing on the TerrAdaptor™. Rigging theory that supports sound and reliable manipulative tripod skills congruent with the requirements of NFPA 1670 and 1006 Technician Level and the basic force multiplier theory of portable anchors are key components of Module 1. Class can be customized for either work at height applications or for rescue.

**Upon successful completion of Module I, all participants will be able to accomplish the following:** Demonstrate proper safety protocols when working with portable anchors • Demonstrate proper assembly of the TerrAdaptor™ Tripod congruent with the manufacturer's instructions • Construct and safely operate a main and belay line system with a standard tripod configuration in place • Understand and construct a back-tie system to stabilize the tripod during operation • Understand and perform basic communication for raises and lowers using a portable anchor • Complete and pass a written test

*Prerequisites: None »*  
*Location: 3850 York Street, Denver, CO 80205 »*  
*Max Class Size: 6 students per instructor*

**VR63014 \$575.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

*This is a one day course*

**Portable High Directionals: Module II**

This is a two day rope technician intermediate skills course that instructs participants in the use of portable anchor systems, focusing on the TerrAdaptor™. Rigging theory that supports sound and reliable manipulative mono-pod and bi-pod (angled A frame) skills congruent with the requirements of NFPA 1670 and 1006 Technician Level and the intermediate force multiplier theory of portable anchors are key components of Module II. Class can be customized for either work at height applications or for rescue.

**Upon successful completion of Module II, all participants will be able to accomplish the following additional skills:** Demonstrate proper safety protocols when working with intermediate configurations of portable anchors • Demonstrate proper assembly of the TerrAdaptor™ as a mono-pod (gin pole) and bi-pod (angled A frame) portable anchor congruent with the manufacturer's instructions • Construct and safely operate a high line in addition to a main and belay line system using a standard tripod configuration as well as mono-pod and bi-pod configurations in place • Understand intermediate principles of force multipliers as they apply to whiteboard analysis of critical angles and resultant forces • Complete and pass a written test

*Prerequisites: Successful completion of Portable High Directionals: Module I »*  
*Location: 3850 York Street, Denver, CO 80205 »*  
*Max Class Size: 6 students per instructor*

**VR63016 \$700.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

*This is a two day course*

**Portable High Directionals: Module III**

This is an advanced two day rope technician intermediate skills course that instructs participants in the use of portable anchor systems, focusing on the TerrAdaptor™. Rigging theory that supports sound and reliable manipulative skills of all portable anchor configurations congruent with the requirements of NFPA 1670 and 1006 Technician Level and advanced force multiplier theory of portable anchors are key components of Module III.

Expect a very strong emphasis on analysis of multiple vector and resultant forces on a portable anchor system using whiteboard analysis. Class can be customized for either work at height applications or for rescue.

**Upon successful completion of Module III, all participants will be able to accomplish the following additional skills:** Demonstrate proper safety protocols when working with advanced configurations of portable anchors • Construct and safely operate high lines and sloping high lines using all possible combinations of configurations of the TerrAdaptor™ • Understand advanced principles of force multipliers as they apply to whiteboard analysis of critical angles in high line rigging and the calculation of critical angles • Complete and pass a written test

*Prerequisites: Successful completion of Portable High Directionals: Module II »*  
*Location: 3850 York Street, Denver, CO 80205 »*  
*Max Class Size: 6 students per instructor*

**VR63018 \$700.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

*This is a two day course*



**Portable High Directionals: 3-Module Series**

This course combines Module I, Module II and Module III of the Portable High Directionals Series. Module I is a one-day, basic level introductory course, Module II is a two-day, intermediate level rope technician course and Module III is a two-day advanced level rope technician course. This course combination will instruct participants in the use of portable anchor systems, focusing on the TerrAdaptor™. Rigging theory that supports sound and reliable manipulative skills of all portable anchor configurations congruent with the requirements of NFPA 1670 and 1006 Technician Level and the Basic and Intermediate Force Multiplier Theory of Portable Anchors are key components of Modules I, II and III.

**Upon successful completion of Modules I, II and III, all participants will be able to accomplish the skills listed above in the individual course descriptions.**

*Prerequisites: None »* *Location: 3850 York Street, Denver, CO 80205 »*  
*Max Class Size: 6 students per instructor*

**VR63012 \$1,975.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

**VR63013 \$12,300.00 Full Class at Your Location**



This is a five day course

### Rope Access Certification Course (SPRAT®)

Rope access provides a safe, cost-effective, and efficient means of access, egress, and positioning for work at height. So whether you are a building, bridge or dam inspector, an engineer, a window washer, a rock scaler, a tower climber or a theatrical rigger, adding a SPRAT® certification to your toolbox will help improve jobsite safety, efficiency and offers the added credibility that comes with a rigidly administered third party evaluation.

This four-day course provides students with the knowledge and skills they need to pass the SPRAT® certification session that is held on the fifth day of the course by an independent SPRAT® Evaluator.

**Participants will learn many skills, including but not limited to:** Ascending and descending • Rope to rope transfers • Passing knots • Short and long re-belays • Passing deviation anchors • Passing and installing rope protection • Basic knot craft • The importance of fall factors • Mechanical advantage systems

SPRAT® Levels Two and Three are also available, providing participant can provide proof of necessary hours for evaluation.

*Prerequisites: None » Location: 3850 York Street, Denver, CO 80205 » Max Class Size: 6 students per instructor*

**VR63022 \$1,675.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

**VR63023 \$10,750.00 Full Class at Your Location**

### Rope Access for the Professional Rescuer

The great thing about rope access technicians is that they can get to places that almost no one else can. Unfortunately, this can also make them very difficult to rescue in the event of a mishap.

Professional rescuers whose jurisdictions may include riggers, engineers, or others using rope access techniques should ensure that at least some advanced rescue technicians have the skills necessary for rescue from these environments.

As a prerequisite, rescuers must first be SPRAT® Level 1 certified. This class builds on that foundation, providing advanced skills and techniques necessary for more complex, SPRAT® or IRATA level three-comparable rescues.

*Prerequisites: SPRAT® Level One Certification » Location: 3850 York Street, Denver, CO 80205 » Max Class Size: 6 students per instructor*

**VR63028 \$650.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

**VR63029 \$4,000.00 Full Class at Your Location**



This is a two day course

### Tower Rescue for the Professional Rescuer

Even in the very best of scenarios, tower rescue for the professional can be a daunting task. The dangers of extreme height, high voltage, microwave radiation, radio frequency exposure and gusting winds make tower rescue one of the toughest calls the professional rescuer deals with. Broadcast and telecommunications towers are practically everywhere these days, and the likelihood of a tower rescue in your organization's response area increases is a very real possibility. And with NFPA 1670 now addressing tower rescue, the need for this specialized training is essential if your organization is faced with the possibility of carrying out this low-frequency, high-risk type of call.

At VRS™ you can rely on a tower rescue course to address more than just the rigging involved with the rescue. The objective dangers facing the professional rescuer on either a telecommunications or broadcast tower are just as important to rescuer safety as the systems used for the rescue.

This course will also familiarize the student with some of the tools and techniques unique to tower work and rescue.

*Prerequisites: None » Location: 3850 York Street, Denver, CO 80205 » Max Class Size: 6 students per instructor*

**VR63030 \$1,300.00 Per Student**

*Register 30+ days in advance and receive a 10% discount!*

**VR63031 \$7,800.00 Full Class at Your Location**



This is a three day course

# Books

Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education

## High Angle Rescue Techniques V4

Your Definitive High Angle Rope Rescue Guide! The fourth edition of High-Angle Rope Rescue Techniques: Levels I & II provides comprehensive coverage of all aspects of high-angle rescue, including planning, PPE and equipment, medical considerations, evacuations, and special rescue operations. Based on the 2013 edition of NFPA 1006, Standard for Technical Rescuer Professional Qualifications, High-Angle Rope Rescue Techniques: Levels I & II provides a broad overview of all rescue techniques to meet the needs of fire service, search and rescue, and many other rope rescue professionals. The fourth edition has been updated to include: Coverage of new protective equipment, terminology, rescue products, and techniques. All new Skill Drills that provide step-by-step instruction on how to execute important skills and procedures. Separation of High-Angle Rope Rescue I & II Level content throughout the textbook and instructor resources.

**By:** Tom Vines and PMI's Steve Hudson

**Key Features:** Offers the latest in compliance with nationally recognized standards set by OSHA and the NFPA • 508 pages • Full color photos and illustrations • 2015

**Weight:** 2.69 lbs (1.225 kg)

**BK13007**

**\$97.95**



## High Angle Field Guide

Knowledge of high angle rescue is vital to many emergency service personnel. High Angle Rescue Techniques unique step-by-step approach to instruction facilitates the learning process for both trainers and students.

**By:** Tom Vines and PMI's Steve Hudson

**Key Features:** Offers the latest in compliance with nationally recognized standards set by OSHA and the NFPA • 115 pages • Over 60 illustrations • Full color photos and illustrations • 2004

**Weight:** 5.0 oz (132 g)

**BK13021**

**\$25.95**

## Falls From Height - A Guide To Rescue Planning

How do you rescue someone suspended in midair or trapped above ground? Author Loui McCurley, an expert in technical rope rescue with more than twenty-five years of experience, has the answers. Following her tested and proven advice, readers will learn how to prepare for and safely rescue "at-height" workers and others from "falls from height." The book fully bridges the gap between planning and execution, steering readers toward simple workplace-specific solutions. Moreover, it explains how to develop and implement a comprehensive protection program, enabling all organizations and their employees to fully prepare themselves to respond to a fall from height.

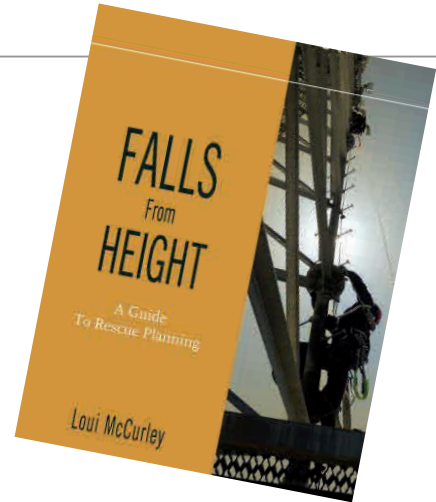
**By:** PMI's Loui McCurley

**Key Features:** Hardcover • 376 pages • 2013 • Over 200 pictures

**Weight:** 1.20 lbs (544 g)

**BK13040**

**\$82.95**



## On Rope 2nd Edition

Excellent reference on descending, ascending, rigging, self rescue, equipment, and much more. A must for the serious ropework scholar.

**By:** Allen Padgett, Bruce Smith, and the National Speleological Society (NSS) Vertical Section

**Key Features:** Over 400 illustrations • Published by the National Speleological Society

**Weight:** 2.88 lbs (1.315 kg)

**BK13011**

**\$48.50**

Swiftwater Rescue Field Guide

The field reference to swiftwater rescue, this tough, booklet is made to fit in your pocket, glove compartment, or pack.

**Key Features:** Waterproof • 4x6 booklet • 84 pages • 44 drawings • Soft cover • Spiral bound top • 2012 revision

*Weight: 2.5 oz (69 g)*

**BK13002**                      **\$19.95**



Technical Rescue Field Operations Guide

A pocket guide containing command checklist and easy to follow step-by-step procedures for rope, confined space, swiftwater, trench, structural collapse, and helicopter rescue.

**By:** Tom Pendley

**Key Features:** 240 Full Color Illustrations • Paperback • 200 pages • Spiral bound top • 2011

*Weight: 6.0 oz (181 g)*

**BK13019**                      **\$24.95**

Technical Rescue Riggers Guide

Pocket sized quick reference guide to rigging, from Anchors to Z-Rigs. Clear presentation with numerous technical drawings and diagrams.

**By:** Rick Lipke

**Key Features:** Spiral bound • 126 pages • 296 clear illustrations and photos • Black and White

*Weight: 5.0 oz (138 g)*

**BK13003**                      **\$29.95**



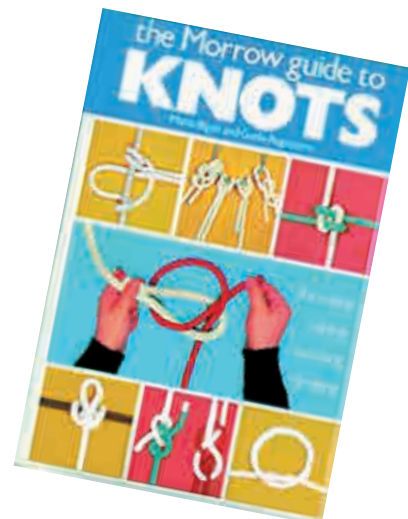
Morrow Guide To Knots

A compact, practical manual of 70 useful knots. From loops and bends to stopper knots and hitches, this guide includes step-by-step instructions, historical data, and useful tips.

**Key Features:** 640 color photographs • 255 pages • 1982

*Weight: 15 oz (435 g)*

**BK13006**                      **\$16.99**



Rope

Webbing and Cordage

Personal Gear

Hardware

Solutions and Kits

Patient Care

Logistics and Support Gear

Training and Education



Dillon ED Junior Dynamometer

Measure load, tension, and force with this indispensable rescue tool. Originally designed to measure the tension on power and phone transmission wires, the dynamometer has proven to have great versatility in rope rigging and rescue applications. It has been used for such diverse jobs as tensioning highlines, field testing rescue systems, and monitoring forces during rope rescue evolution. For precision force or tension measurement in a unit that provides continuous readout of the changing force and a hold feature that records peak force, PMI offers the simple to operate digital ED Junior.

- Key Features:** Peak detection as well as sustained load readings  
 • Selectable units of measure include lbf, kgf, and Newtons  
 • Accuracy - 0.2% (full scale)  
 • Operates with 2 C-cell batteries  
 • The 6-digit dot-matrix display features 1" (26 mm) high numerals  
 • 7:1 safety factor

<b>10K 50 kN (10,000 lbf)</b>	<b>HD26112</b>	<b>\$1,635.00</b>
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Dillon Ed-Xtreme Dynamometer Communicator Remote Display Unit

The Ed-Xtreme dynamometer is a precise instrument that can survive real-world punishment. Use it for simple applications, or tap into its sophisticated user-defined options. Select an optional communicator to monitor a series of critical stress points from a single location or to download your data to a PC via an RS-232 connection for compilation and analysis and generate hard-copy printouts. For hard wire capability, a serial cable connects easily to included recessed connector on rear of instrument. The Ed-Xtreme Remote Communicator is a handheld remote command hub that lets users simultaneously display and control up to 16 EDx dynamometers within the same airspace. The Communicator also calculates the total load on the individual dynamometers, offers custom units, and lets users export data to a PC for recording or analysis. Contact PMI's customer service department for information on units not shown here, including other force ranges (2500 to 330,000 lbf), and accessories.

- Key Features:** Shackles included • Order units with optional radio transmitters for use with the Ed-Xtreme Remote Communicator • 5:1 strength and safety ratio • Accuracy: 0.1% of capacity • 1 part in 1000 display mode with Dillon provided shackles • LCD display shows up to 6 digits • Display updates 2 x per second • Recessed sealed connector for serial communications or connection to a Communicator • Print or extract data easily • Continuous output • 320 hours battery life with typical use • 2 C-cell alkaline batteries • Operating temperature -4° F to 140° F (-20° to 60° C)

<b>5 K 20 kN (5000 lbf)</b>	<b>15.00 lbs (6.804 kg)</b>	<b>HD26126</b>	<b>\$2,165.00</b>
<b>5 K w/Backlight and Radio (for use with Communicator)</b>	<b>15.00 lbs (6.804 kg)</b>	<b>HD26129</b>	<b>\$2,975.00</b>
<b>10 K w/Backlight and Radio (for use with Communicator)</b>	<b>22.00 lbs (9.979 kg)</b>	<b>HD26130</b>	<b>\$3,395.00</b>



<b>5 K 20 kN (5000 lbf)</b>	<b>15.00 lbs (6.804 kg)</b>	<b>HD26126</b>	<b>\$2,165.00</b>
<b>5 K w/Backlight and Radio (for use with Communicator)</b>	<b>15.00 lbs (6.804 kg)</b>	<b>HD26129</b>	<b>\$2,975.00</b>
<b>10 K w/Backlight and Radio (for use with Communicator)</b>	<b>22.00 lbs (9.979 kg)</b>	<b>HD26130</b>	<b>\$3,395.00</b>



Photo Trask Bradbury

### Your safety is our priority!

Working safely at height requires a fine balance between following standard safety procedures and making good decisions on the fly. We're committed to helping you meet those challenges by providing accurate information, top-quality products, and educational resources for your safety.

### Standards and Compliance

Where applicable, PMI products meet appropriate national and international standards.

We're so committed to the gear we make and how it's used, we actually invest resources into the standards-writing process and actively participate in ANSI, OSHA, NFPA, ASTM, ISO, and other professional efforts, all with your safety in mind.

Although not every product has an applicable standard to meet, we test, inspect, and evaluate everything about our gear, and we are happy to share information with you.

If you have a question that isn't answered in this catalog, feel free to give us a call at 1-888-764-1437.

### PMI Quality Assurance

Quality is of prime importance at PMI. As an ISO 9001 Registered company, independent auditors regularly inspect and evaluate our quality systems. In addition, we maintain an in-house testing laboratory to help ensure that you can rely on the quality and consistency of our products.

### Research and Development

Research and development at PMI begins in the field. Just meeting the standards isn't enough. Your gear has to conform to your needs, and it has to be practical and easy to use. In our mission to exceed your expectations, we look to customers and employees who use PMI gear to provide insight and critical analysis for our product development.

You can rely on PMI.

PMI ropes and many other products in this catalog as third party tested by independent labs to various standards.



## Resources and Organizations

### STANDARDS AND REGULATORY RESOURCES

PMI puts major funding and time into supporting the development of consensus standards for safety in work and rescue.

#### American National Standards Institute (ANSI)

202-293-8020

[www.ansi.org](http://www.ansi.org)

Voluntary consensus standards pertaining to work and industry, including fall protection, safety equipment, etc. ANSI is the official USA contact for ISO standards.

#### ASTM International

610-832-9585

[www.astm.org](http://www.astm.org)

Full consensus, voluntary standards on a variety of topics including search and rescue operations and equipment.

#### Cordage Institute (CI)

610-971-4854

[www.ropecord.com](http://www.ropecord.com)

Cordage standards pertaining to all varieties of rope, including life safety rope.

#### National Fire Protection Association (NFPA)

617-770-3000

[www.nfpa.org](http://www.nfpa.org)

Industry consensus standards pertaining to public and firefighter safety. Pertinent standards include professional qualifications, technical rescue, and life safety rope and equipment.

#### Occupational Safety and Health Administration (OSHA)

800-321-OSHA (6742)

[www.osha.gov](http://www.osha.gov)

Federal regulatory agency regulating workplace safety through mandatory regulations. Pertinent regulations include fall protection and confined space.

### PROFESSIONAL ORGANIZATIONS

#### Association for Challenge Course Technology (ACCT)

847-325-5860

[www.acctinfo.org](http://www.acctinfo.org)

ACCT develops, refines and publishes standards for installing, maintaining, and managing challenge courses, provides forums for education and professional development, and advocates for the challenge course industry.

#### American Society of Safety Engineers (ASSE)

847-699-2929

[www.asse.org](http://www.asse.org)

America's oldest and largest professional safety organization for professionals managing, supervising, and consulting on safety, health, and environmental issues.

#### Mountain Rescue Association (MRA)

[www.mra.org](http://www.mra.org)

Volunteer organization dedicated to saving lives through rescue and safety education.

#### National Association for Search and Rescue (NASAR)

703-222-6277

[www.nasar.org](http://www.nasar.org)

Membership organization furthering professional, literary, and scientific knowledge and training in rescue fields.

#### National Park Service (NPS)

202-208-6843

[www.nps.gov](http://www.nps.gov)

Federal organization that oversees national parks and what happens in them.

#### National Safety Council (NSC)

630-285-1121

[www.nsc.org](http://www.nsc.org)

A membership organization dedicated to protecting life and promoting health.

#### Society of Professional Rope Access Technicians (SPRAT®)

[www.sprat.org](http://www.sprat.org)

Resource for information, networking, and support for companies and workers who use on-the-job rope access techniques.

### PMI LIMITED WARRANTY

PMI products are warrantied to the original retail purchaser to be free from defect in material and workmanship for a period of one year. PMI will repair or replace the item without charge, provided inspection at our factory discloses no misuse or alteration which, in our judgment, has affected the condition or functioning of the product.

All implied warranties imposed by law in connection with the sale of PMI products are also limited in duration to a period of one year. PMI expressly excludes and shall not be liable for any consequential damages arising out of any breach of the express or implied warranties on sales of PMI products. Because of the high risks involved in rescue and outdoor activities such as, but not limited to, rope rescue, rope access, caving, rappelling, rock climbing, and mountaineering, no further warranties exist or are implied by PMI. Regulations issued under the Magnuson-Moss Warranty Act require us to include the following statement: some states do not allow limitations on how long an implied warranty lasts nor the excluding or limitation of incidental or consequential damages, so the above limitations may not apply to you.

## Contact and Order Information

### Contact PMI

Toll Free: 1-800-282-ROPE (7673)

Phone: 1-706-764-1437

Fax: 1-800-952-3747

International Fax: 1-706-764-1531

E-mail: [custserv@pmirope.com](mailto:custserv@pmirope.com)

Mail: PMI Inc.  
PO Box 803  
LaFayette, GA 30728 USA

### Contact Your Local PMI Dealer

To find the PMI Dealer nearest you, call:

North America: 1-800-282-ROPE (7673)

International: 1-706-764-1437

Or on the web at: [www.pmirope.com](http://www.pmirope.com)



#### Dealer and Direct Order Information

- Orders may be placed by phone, fax, or e-mail.
- Customer Service can be reached Monday through Friday from 8:30 am to 5:00 pm ET. If you call outside of these hours, please leave a message.
- When faxing or emailing an order, include a daytime phone number in case we need to contact you.
- Send e-mail orders to [custserv@pmirope.com](mailto:custserv@pmirope.com).
- Whether you call, fax, or e-mail us, make sure you indicate quantities, sizes, and color choices. Using our product numbers and descriptions will speed up your order.
- We accept purchase orders from governments, organizations, businesses, and schools with approved credit.
- Georgia/Colorado/Washington sales tax is required on all orders picked up or delivered in Georgia, Colorado, or Washington unless you have a Georgia, Colorado, or Washington tax exemption certificate on file with our office. All other applicable taxes are the purchaser's responsibility.

#### Government Sales

We welcome government bid/quote requests. Send your complete specifications and bid request to: PMI Inc., P.O. Box 803, LaFayette, Georgia, 30728-0803 or fax to 1-800-952-3747. We accept purchase orders from government agencies such as rescue squads, fire departments, police departments, and land managers. Our standard terms of sale apply to all orders unless other arrangements are made in writing.

#### International Orders

- For the fastest service and shipping information, Call: 1-706-764-1437, Fax: 1-706-764-1531 or send e-mail to [custserv@pmirope.com](mailto:custserv@pmirope.com). All international orders must be in writing.
- We must have a phone number and payment in advance before shipping your order.

- Payment for products and shipping must be in US Dollars. All international orders are EXWORKS. Wire transfer only for international orders. Contact International Customer Service for information.
- Duty and any other import taxes are not prepaid. You are responsible for duties, taxes, and any brokerage fees. Check with your local customs office for details.

#### Shipping Information

- All materials sold F.O.B. Shipping point. Customer assumes all insurance and delivery risks of loss or damage at F.O.B. point as provided in common law.
- If a shipping container is damaged when you receive it, open it and inspect the contents while the carrier is there. Report damage to the carrier by marking the freight bill before you accept or refuse the shipment.
- If the container looked okay but the contents were damaged or items are missing, please contact us. We must be notified of any shipping discrepancies within 15 days of receipt of our package or invoice.
- We ship rush orders via UPS or Fed-Ex.
- Oversized items will be shipped Motor Freight.

#### Payment Options

If you don't have an account with PMI, we offer the following alternative methods of payment:

- Prepaid - Cashier's check or money order, payable to Pigeon Mountain Industries.
- C.O.D. - Cashier's Check or Money Order.
- Visa, Master Card, or American Express - The minimum charge purchase is \$25.00. Please be sure to include the complete number, your name as it appears on the card, the expiration date, and the phone number and billing address for the card.
- Sorry, we do not accept personal checks.



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PIGEON MOUNTAIN INDUSTRIES INC.

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