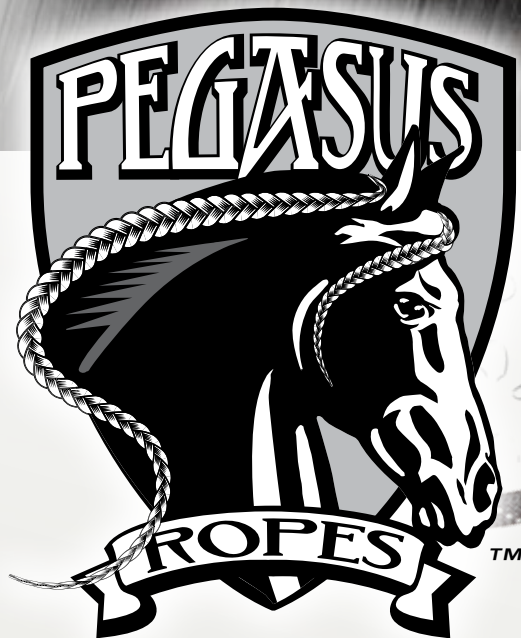


STRENGTH *that DEFIES GRAVITY™*



NORTH AMERICAN RESCUE®

www.NARescue.com • 888.689.6277



Redefining Rope Technologies

PEGASUS cores are all designed with **Innega™S**, a **new and innovative advanced fiber** that gives Pegasus Ropes™ the same physical & mechanical properties – whether wet, dry or even exposed to chemicals. This **breakthrough technology** has an impressive strength-to-weight ratio, making it the lightest structural fiber available today. Innegra™'s unique composition also provides great thermal properties when used in hot or cold environments. For the first time you can be confident that the backbone of your rope's system, **your core, will perform** regardless of environmental challenges.

HARNESSING THE ADVANTAGE OF

INNEGRA

- ✓ Ultra-lightweight
- ✓ High Strength
- ✓ Hydrophobic
- ✓ UV Stable
- ✓ Chemically Inert
- ✓ Cut Resistant
- ✓ Low Creep
- ✓ Buoyant
- ✓ Low Dielectric

The Factor of Safety (FOS) in the rope industry recommends a 10x FOS for most rope designs (working load = 10% of Minimum Break Strength) compared to the automotive, aerospace, and structural design industries' 2-3x. In part, the high rope FOS tries to compensate for the environmental, mechanical and physical "unknowns" that rope materials are exposed to.

North American Rescue (NAR) is proud to announce our **Static Pegasus Ropes™ Series – the lightest weight and most versatile rope available today**. Understanding your mission requirements, NAR continues our tradition of providing tactical and rescue teams with innovative and dependable equipment that outperforms expectations in unpredictable environments. Our Pegasus Ropes™ line delivers unmatched performance (wet, dry or contaminated), allowing you to utilize one rope for most missions.

Pegasus cores are composed of 100% virgin Innegra™ fiber. Innegra™ is a new, advanced material with excellent physical & mechanical properties. Characterized by its **excellent strength to weight ratio**, Innegra™S delivers a very strong, ultra-lightweight, hydrophobic, buoyant and chemically inert fiber that is **ideal for varying operational needs**.

Unlike all nylon based ropes, Pegasus' physical and mechanical properties are virtually unchanged regardless of environmental conditions such as rain, sleet, snow, mist, humidity, salt water and chemicals, allowing it to maintain its high strength, low weight and cut resistance regardless of the weather. With its superior handling,

knotability and reliably stable performance, **Pegasus is a significant advancement in rope technologies.**

Understanding Ropes vs Environment

GENERAL EFFECTS of WATER or ELEVATED HUMIDITY on NYLON*

Nylons absorb a significant amount of water/moisture, whether by immersion or, perhaps surprisingly, by simple exposure to elevated humidity for even a relatively short period of time. Once moisture enters these fibers, they never return to 100% strength or original quality. To the right are some mechanical and physical properties that are negatively affected by moisture.

NEGATIVE EFFECTS of MOISTURE on many FIBERS

- ↓ Strength Loss (up to 70%)
- ↓ Dynamic Performance
- ↓ Fall Arrest Peak Force
- ↓ Knotability
- ↓ Melting Point
- ↓ Abrasion Properties
- ↑ Elongation
- ↑ Weight Gain (6%-9%)
- ↑ Sheath Slippage
- ↑ Diameter

The chart below illustrates the various strengths and weaknesses of available rope fibers. Note that the properties highlighted in blue are testing results with water/moisture taken into consideration. Current testing protocols are all conducted in a laboratory environment with controlled humidity and temperature. Understanding the environments that you work in, we believe that **water/moisture is a major factor that needs to be considered**. Unfortunately, operational conditions are not predictable or controllable. Pegasus Ropes™ use NFPA/UIAA testing standards in addition to tests conducted under full humidified/wet conditions.

Rope Fiber Characteristics

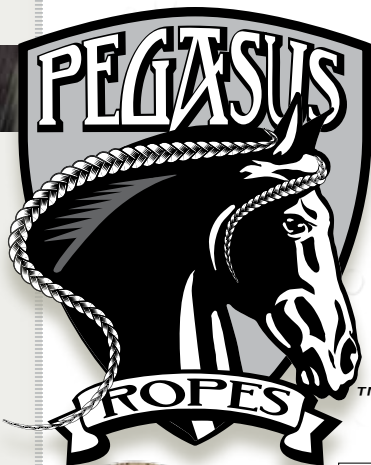
PROPERTY	Innegra™S	Polypropylene	Polyester	Nylon 6	Dyneema	Technora
Cost per lb	Good	Excellent	Excellent	Excellent	Poor	Poor
Specific Gravity g/cc (weight)	0.84	0.91	1.38	1.14	0.97	1.44
Breaking Tenacity gF/denier (dry)	9.5	3.0	9.3	9.0	38.0	23.0
Moisture Regain	Excellent	Excellent	Good	Poor	Excellent	Poor
Water Resistances	Excellent	Excellent	Excellent	Poor	Excellent	Poor
Strength Retention in H ₂ O	Excellent	Excellent	Good	Poor	Excellent	Good
Elongation at Break % (dry)	9.5	19.0	14.6	20.0	3.1	3.5
Melting Point (C/F)	162/324	162/325	256/493	254/489	147/297	427/800
Abrasion Resistance (dry)	Good	Poor	Good	Good	Good	Excellent
Abrasion Resistance (wet)	Good	Poor	Good	Poor	Good	Good
UV Resistance	Good	Poor	Good	Good	Good	Poor
Knotability	Excellent	Excellent	Excellent	Excellent	Poor	Good
Chemical Resistance: ACID	Excellent	Excellent	Excellent	Poor	Excellent	Excellent
Chemical Resistance: ALKALI	Excellent	Excellent	Poor	Good	Excellent	Good
Chemical Resistance: ORGANIC SOLVENT	Excellent	Excellent	Good	Good	Good	Good

The Rope Fiber Characteristic chart is a homogenized view of fiber characteristics. Many factors can alter performance of materials.

*Sterling Rope Company's "Guide to Rope Engineering, Design and Use, (Flory, McKenna, Parsey, 1982) (UT Knoxville (Raghavendra R. Hegde, Atul Dahiya, M. G. Kamath (Monika Kannadaguli and Ramaiah Kotra April, 2004)

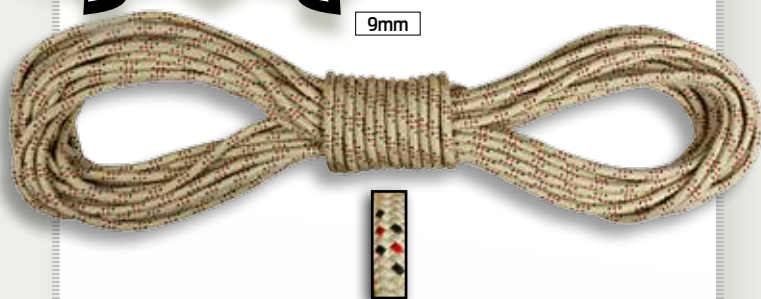
"AMILAN* Nylon Resin." Mechanical Properties | AMILAN* | Plastics Products | TORAY. Toray Industries Inc., n.d. Web. 08 Oct. 2013.

Note: Para-Aramid (Kevlar, Nomex, Technora) are hydrophilic (water absorbing) have the same general properties when moisture enters the fiber.



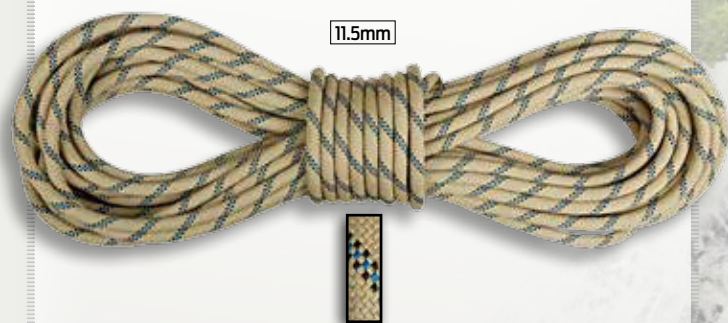
OLYMPUS

STRENGTH that DEFIES GRAVITY™



Diameter: 9mm
 Weight: 3.6 lb per 100 ft
 Elongation: 1.3%
 Rope MBS (Dry Break) 4100 lbf (18.2 kN)
 Rope MBS (Wet Break) 4175 lbf (18.6 kN)
 Fibers (core/sheath) Innegra™/Technora
 Sheath Ratio: 60% Technora

Item# 90-0401 Gold w/Black & Red Runner



Diameter: 11.5mm
 Weight: 5 lb per 100 ft
 Rope MBS (Dry Break) 5800 lbf (25.8 kN)
 Rope MBS (Wet Break) 5900 lbf (26.2 kN)
 Fibers (core/sheath) Innegra™/Technora
 Sheath Ratio: 44% Technora

Item# 90-0400 Gold w/Black & Blue Runner

NOTE: Testing conducted by 3rd party UL Rated Laboratories.

Olympus Series™ Canyoneering, mountaineering and caving represent some of the most challenging and abusive environments for safety equipment on the planet. NAR has designed a line of durable, lightweight and great handling ropes that offer reliability in all weather conditions. Whether it's raining, submerged in salt water or -40°F, Pegasus Ropes™ always perform. Olympus is **engineered for rough terrain and sharp edges** by offering a thick and highly twisted Technora sheath for added strength and excellent abrasion resistance. The Innegra™ core is ultra-lightweight and strong, allowing the rope to have a **dependable core that is so buoyant that it floats** with the thicker sheath. Combining these two high performance fibers creates the ultimate in advanced rope performance.

- **Technora sheath for abrasion, cut resistance & heat resistance**
- **Innegra™ core for reliable strength, durability & flotation whether wet, dry or contaminated**
- **Easy to knot with a great feel**
- **Easily stored and deployed from stuffed sack**
- **Low stretch – wet or dry**
- **High strength to weight ratio – wet or dry**

9mm has **60% Technora** sheath
 that still **Floats**

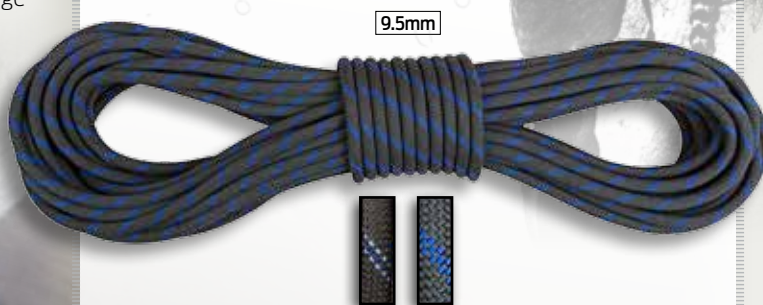


Stallion Series™ When weight really matters.... our Stallion Series™ has no rival. Designed specifically for military and law enforcement operations, Stallion features **ultra-lightweight and low visibility rope** construction that performs regardless of operational extremes. **Teams never have to gamble safety by using smaller diameter ropes for weight reduction again.** Innegra™ has an excellent strength to weight ratio and is hydrophobic – neither the physical nor mechanical properties of Stallion change when the rope is wet.

- Innegra™ core for reliable strength, durability & flotation
- Innegra™ tight & high twist sheath pattern to increase abrasion resistance & reduce weight
- Low stretch – wet or dry
- High strength to weight ratio – wet or dry
- Low sheath slippage
- Chemical resistance to acids, bases & common industrial chemicals
- Buoyant
- Low Dielectric
- UV Stable



STALLION

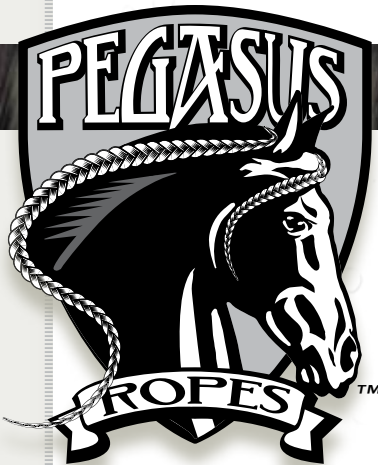


Diameter:	9.5mm
Weight:	2.9 lb per 100 ft
Rope MBS (Dry Break):	5100 lbf (22.7 kN)
Rope MBS (Wet Break):	5100 lbf (22.7 kN)
Fibers (core/sheath):	Innegra™/Innegra™
Sheath Ratio:	24% Innegra™

Item# 90-0103	Black w/Blue Runner & Reflective Tape
Item# 90-0104	Black w/Blue Runner

NOTE: Testing conducted by 3rd party UL Rated Laboratories.

100 ft of 9.5mm rope
5200lb OF strength
under 3 lb
 wet OR dry



**WAR
HORSE**

9.5mm



Diameter:9.5mm
 Weight:3.34 lb per 100 ft
 Rope MBS (Dry Break).....5100 lbf (22.7 kN)
 Rope MBS (Wet Break).....5270 lbf (23.4 kN)
 Fibers (core/sheath).....Innegra™/Polyester
 Sheath Ratio:.....28% Polyester
 Ratings:NFPA 1983/2012 Throwline (Pending)

Item# 90-0205.....HiVis Yellow w/Blue Runner & Reflective Tape
 Item# 90-0206Black w/Grey Runner & Reflective Tape
 Item# 90-0207Black w/Grey Runner
 Item# 90-0208White w/Blue Runner

STRENGTH *that DEFIES GRAVITY™*

Warhorse Series™ Warhorse is a **high quality, multipurpose rope** featuring a 100% Innegra™ fiber braided core with a high twist polyester sheath, allowing **superior performance**. Warhorse is a static rope designed to provide reliability, high performance, great handling, excellent knot-ability with high strength, low weight, low elongation, whether wet, dry or any other climatic condition.

- **Innegra™ core for reliable strength, durability & flotation**
- **Low stretch – wet or dry**
- **High strength to weight ratio– wet or dry**
- **Low sheath slippage**
- **Chemical resistance to acids, bases & common industrial chemicals**
- **Buoyant**
- **Low Dielectric**
- **UV Stable**
- **Soft to the touch**
- **Easily stored and deployed from stuffed sack**

Unchanging
physical/mechanical properties
wet, dry OR contaminated
WITH chemicals



NOTE: Testing conducted by 3rd party UL Rated Laboratories.

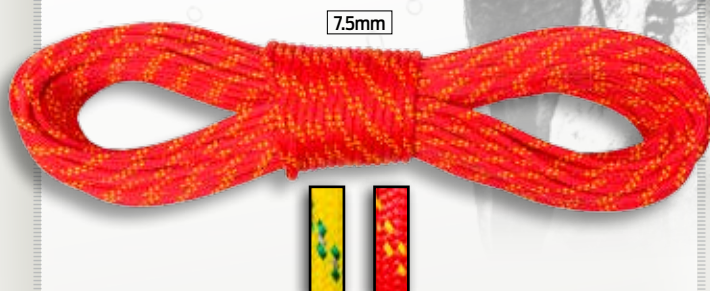
Triton Series™ Triton is *specially designed for water rescue professionals and as a high quality tag line*. Featuring 100% Innegra™ fiber braided core which is the lightest structure fiber available giving Triton additional buoyancy, low elongation and consistent strength. The sheath is made of high quality polypropylene that adds additional flotation and protection to the core. The combination of these materials give you a **high strength and durable** rope that is soft to the touch and can be easily stored in throw or rope bags. Triton is also used as a tag line for rescue operations.

- Innegra™ core for reliable strength, durability & flotation
- Low stretch –wet or dry
- High strength to weight ratio – wet or dry
- Low sheath slippage
- Chemical resistance to acids, bases & common industrial chemicals
- Buoyant
- Low Dielectric
- UV Stable
- Soft to the touch
- Easily stored and deployed from stuffed sack



10% **Lighter** AND
250% Stronger
 THAN polypropylene

TRITON



Diameter: 7.5mm
 Weight: 2 lb per 100 ft
 Rope MBS (Dry Break)..... 3050 lbf (13.6 kN)
 Rope MBS (Wet Break)..... 3050 lbf (13.6 kN)
 Fibers (core/sheath):..... Innegra™/Polypropylene
 Sheath Ratio:..... 46% Polypropylene
 Ratings:..... NFPA 1983/2012 Throwline (Pending)

Item# 90-0303..... HiVis Yellow w/Green Runner & Reflective Tape
 Item# 90-0305..... HiVis Red w/Yellow Runner

NOTE: Testing conducted by 3rd party UL Rated Laboratories.



Rope Rescue

High Angle Rescue

A. Archangel RACE (Rapid Access Casualty Extraction) System

Designed after discussions & training with units from all branches of the DoD. A simple lightweight multipurpose kit that allows for the four key areas of Tactical Evacuation (Ascend, Descend, Hoist, and Lower), a capability gap in the current equipment issued. Combines 150 ft of lightweight durable 9mm Olympus Pegasus Rope™ with the latest in lightweight multipurpose hardware. Capable of rigging 2:1, 3:1, 4:1, 5:1, 6:1, and 9:1 systems in different configurations for a wide variety of options to the rescuer.

Kit Dimensions: H 15 in. x W 10 in. x D 7.5 in. / Wt: 10 lb 14 oz

Archangel RACE System (MTC)Item# 90-0063

3X
STANDARD



1 Hasty Harness



BERRY
A
COMPLIANT



1 Anneau Sling 60cm



1 Anneau Sling 120cm



1 Adjustable Foot Loop



1 Reverso 4 Belay/Rappel Device



1 TIBLOC Ascender/Rope Grab



3 Mini-Pulleys



7 Attache Screw Lock Carabiners



1 PAW S Rigging Plate



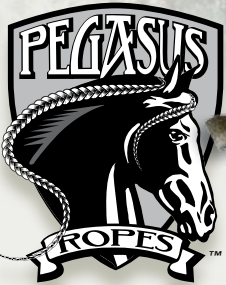
1 GRIGRI 2 Belay Device



1 BASIC Ascender



1 150 ft Pegasus 9.0mm Olympus Rope



A



B

Water Rescue

B. Belt Throw Bag A multi-purpose solution designed for easy deployment and retrieval for rescuers. The quick release reverse tapered throwbag holds 60 ft of 7.5mm Triton Pegasus Rope™ rated at over 3,300 lb. Reverse tapered design allows for rapid packing of the Triton rope. The included adjustable belt holds the throwbag during rescue work or paddling & can be used as a field expedient anchor point when clipped around a tree or boulder.

Kit Dimensions: L 11 in. x W 4.5 in. x D 4 in. / Wt: 2 lb 8 oz

Belt Throw Bag (ORG).....Item# 90-0065

C. 50 ft Throw Bag A necessity for water rescue. Durable, easy-to-use rescue device with a highly visible orange nylon bag and mesh panels that drain quickly for use in multiple rescue operations. Packed with 50 ft of 7.5mm Triton Pegasus Rope™ rated at 3,300 lb. Triton rope is strong enough for multiple uses: as a throw line, tension diagonal, tow line and for pinned kayak recovery.

Kit Dimensions: L 8.5 in. x W 4.5 in. x D 4 in. / Wt: 1 lb 5 oz

Throw Bag (ORG).....Item# 90-0064



C



D

D. Helo Tagline Kit A requirement on all Army MEDEVAC helicopters to help control litter movement during hoist operations. Contains Triton ropes featuring a highly visible polypropylene sheath with a super strong Innegra™ core. Includes 250 ft of 7.5mm Triton Pegasus Rope™, 2 locking carabiners, 10 weak links, 2 stainless steel quick links and a V strap for attaching the tagline to the litter. Weak links are designed to break if the litter is snagged during the hoist.

Kit Dimensions: L 17 in. x W 7 in. x D 7 in. / Wt: 5 lb 13 oz

Helo Tagline Kit (BLK).....Item# 90-0069



Rescue Accessories



Rescue Gear

A. Petzl GRIGRI 2 Belay Device Compact, ultra-light belay device allows excellent control during the descent with assisted braking capability on all single dynamic 8.9 to 11 mm rope. Enables one hand to hold the rope while the other utilizes the patented handle to unlock the cam for a gradual, controlled release of the rope that ensures added security when lowering a partner or rappelling. Aluminum side plates, stainless steel cam and friction plate, reinforced nylon handle.

Dimensions: Rope Size: 8 to 11 mm / Wt: 170 g

Petzl GRIGRI 2 (Chrome)Item# ZZ-0545

B. Petzl REVERSO 4 Belay/Rappel Device Ultra-light, multi-purpose, hot-forged aluminum belay/rappel device that regulates the amount of braking friction on the rope according to its diameter and condition; Reverso mode. V-shaped friction channels with asymmetrical lateral grooves adapt the friction to the type of rope for better control. Reverso mode for belaying one or two seconds with assisted braking.

Dimensions: For use on half ropes & twin ropes ≥ 7.5 mm single ropes ≥ 8.9 mm / Wt: 59 g

Petzl REVERSO 4 (BLK)Item# ZZ-0546

C. Petzl Basic Ascender Compact ascender with excellent grip for rope ascent on a fixed line or as progress capture in a hauling system. Toothed cam with self-cleaning slot optimizes performance under any conditions (e.g. frozen or dirty ropes). Stainless steel cam has better resistance to corrosion. Lower attachment hole large enough for two carabiners (lanyard and foot loop). Upper connection hole for guiding the rope.

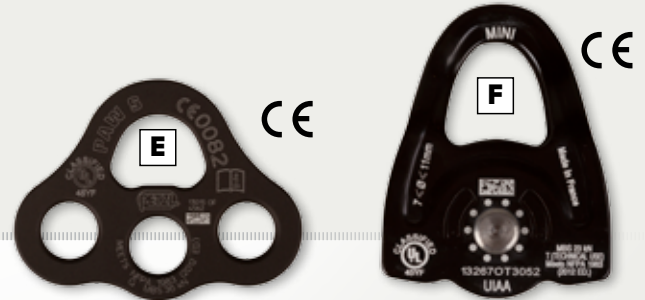
Dimensions: Rope Size: Single, 8 to 11 mm / Wt: 85 g

Petzl Basic Ascender (BLK)Item# ZZ-0554

D. Petzl TiBloc Ascender/Rope Grab Ultra-light Emergency Ascender/Rope Grab that can be used to build hauling systems or as a Prusik-replacement in self-rescue situations. Chrome-plated steel cam with angled teeth & self-cleaning slot securely grips the rope, even in muddy or icy conditions. Can be used as a progress capture device in a hauling system. Small top hole allows the attachment of keeper cord.

Dimensions: Rope Size: 8 to 11 mm / Wt: 39 g

Petzl TiBloc (Chrome)Item# ZZ-0547



E. Petzl PAW S Rigging Plate For easy organization of the work area and for creating multiple anchor systems. 19 mm holes allow the locking sleeves of most carabiners to pass through. Made of aluminum with excellent strength/weight ratio.

Dimensions: Breaking strength: 36 kN / Wt: 55 g

Petzl PAW S Rigging Plate (BLK)Item# ZZ-0553

F. Petzl Mini-Pulley Highly efficient, compact lightweight Prusik Pulley with special side plates designed for use with a Prusik friction hitch in progress capture systems. Sheave mounted on sealed ball bearings for excellent efficiency.

Dimensions: Rope Size: 7 to 11 mm / Breaking strength : 23 kN

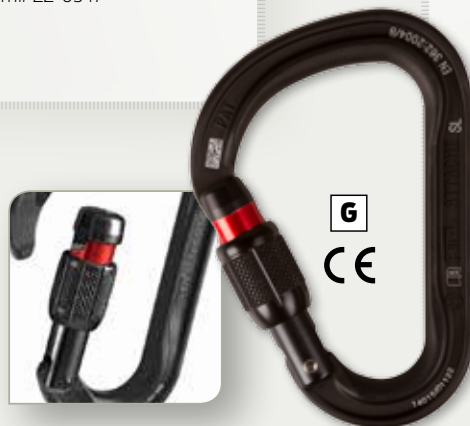
Working Load: 2.5 kN x 2 = 5 kN / Sheave Diameter: 25 mm / Wt: 80 g

Petzl Mini-Pulley (BLK)Item# ZZ-0548

G. Petzl ScrewLock Attache Carabiner Lightweight, compact, pear-shaped aluminum carabiner with screw-lock system ideal for belay stations. Features H cross section for improved strength/weight ratio & nose/Keylock system to avoid the carabiner snag during maneuvers. SCREW-LOCK sleeve with visual locking indicator confirms secure fastening. Wider contact surfaces allow better rope glide and reduced carabiner wear.

Dimensions: Major axis strength: 22 kN / Minor axis strength: 7 kN Open gate strength: 6 kN / Gate opening: 24 mm / Wt: 56 g

Petzl ScrewLock Attache Carabiner (BLK)Item# ZZ-0543





H. Petzl Footape Adjustable Foot Loop Adjustable nylon foot loop for attachment to the BASIC rope clamp for rope ascents. Underfoot strap is abrasion-resistant & slightly rigid to make it easier to step into. Adjustable elastic keeps the foot in the foot loop with any type of shoe. Mini DoubleBack buckle easily & quickly adjusts length of foot loop.

Dimensions: Wt: 65 g

Petzl Footape (BLK) Item# ZZ-0551

I. Petzl Anneau Slings Polyester sling to set up a belay or an anchor, or to extend an anchor point.

Dimensions: Breaking strength: 22 kN / Width: 19 mm
Length 60 cm / Wt: 58 g / Length 120 cm / Wt: 98 g

Petzl Anneau Sling 60 cm (BLK) Item# ZZ-0549

Petzl Anneau Sling 120 cm (BLK) Item# ZZ-0550

Carabiners CE



Shield

Item# 90-0005
Loading Strength:
Major Axis - 5395 lb (24 kN)
Minor Axis - 1573 lb (7 kN)
Open Gate - 2248 lb (10 kN)
Device Dimension:
L 3.94 in. x W 2.36 in.
Wt: 1.13 oz



Aero Screwgate

Item# 90-0006
Loading Strength:
Major Axis - 5620 lb (25kN)
Minor Axis - 2023 lb (9 kN)
Open Gate - 2023 lb (9 kN)
Gate Opening Clearance -
17 mm / Wt: 2.1 oz



Revolver

Item# 90-0007
Loading Strength:
Major Axis - 5395 lb (24 kN)
Minor Axis - 1573 lb (7 kN)
Open Gate - 2023 lb (9 kN)
Gate Opening Clearance -
0.95 in. / Wt: 1.55 oz

Headlamps

J. Petzl TACTIKKA® +RGB Versatile weather-resistant LED headlamp with CONSTANT LIGHTING technology ensuring that brightness remains steady as the batteries are drained. Suitable for proximity lighting & rapid movement, allowing stealth while preserving night vision. Keeps hands free; may be worn on a helmet, on the head or around the neck. Push-button switch is easy to use, even with gloves on. Washable Headband adjusts easily with buckle for easy donning. Includes 3 AAA/LR03 batteries. Wide range selection of modes and lighting colors to adapt to each situation.

Ambient Mode: Wide beam with reduced brightness, avoids blinding others in a group situation and provides a long burn time.

Close Range Vision Mode: Mixed beam with wide, uniform flood or 3 colored LED lighting modes (red, green and blue) to remain discreet.

Movement Mode: Mixed beam with focused component allows user to move around comfortably.

Boost Mode for temporary access to maximum power, 140 lumens (60 meters)

Strobe mode for signaling one's presence, accessible at any time.

Reserve Mode Burn time management automatically switches on by signaling with blinking light when batteries are almost drained. Red lighting activates to preserve a minimal amount of lighting.

Dimensions: Light Output: Min. -5 Lumens; Max. -120 Lumens (140 Lumens on Boost mode)
Wt: (including batteries): 3 oz

Petzl TACTIKKA® +RGB (BLK) Item# ZZ-0552

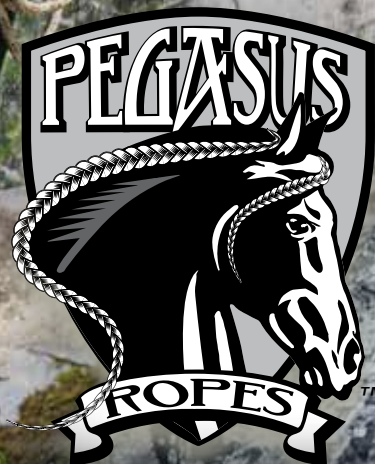


NOTE: Headlamp sold separately.
Helmet not included.



K. NAR Headlamp

Item# ZZ-0106 (BLK) • NSN# 6515-01-542-7937
Faceshield diameter - 1.3 in.
Headlight (including head strap & mounting plate) - W 2.25 in. x D 1.6 in.
Wt: (including batteries & headband) - 2.75 oz



STRENGTH *that DEFIES GRAVITY™*