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HSI

Fall Protection

Miller Fall Protection

The ABC's of a Personal Fall Arrest System

Three key components of the Personal Fall Arrest System (PFAS) must be in place and properly used to provide maximum worker protection.



Anchorage/Anchorage Connector:

Anchorage: Commonly referred to as a tie-off point (Ex: I-beam, rebar, scaffolding, lifeline, etc.)

Anchorage Connector: Used to join the connecting device to the anchorage (Ex: beam anchor)

Body Wear:

Body Wear: The personal protective equipment worn by the worker (Ex: full-body harness)

Connecting Device:

Connecting Device: The critical link which joins the body wear to the anchorage/anchorage connector (Ex: shock-absorbing lanyard, fall limiter, self-retracting lifeline, rope grab, etc.)

Individually, these components will not provide protection from a fall. Used properly in conjunction with each other, however, they form a Personal Fall Arrest System that becomes vitally important to safety on the jobsite and the overall fall protection program.

Four Functional Equipment Categories

Fall Arrest – As a general rule, it is recommended that a fall arrest system be used at working heights of four feet or more. This system consists of:

- anchorage/anchorage connector
- body wear (full-body harness)
- connecting device (shock-absorbing lanyards, self-retracting lifelines)

Positioning/Restraint* – A positioning/restraint system is used to hold a worker in place while allowing a hands-free work environment at elevated heights and/or restrict the worker's movement to prevent reaching a location where a fall hazard exists. A typical positioning/restraint system consists of:

- anchorage/anchorage connector
- body wear (full-body harness or body belt)
- connecting device (positioning lanyard)





Suspension*

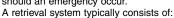
Suspension systems are used widely in the window washing and painting industries and are designed to lower and to support a worker while allowing a hands-free work environment.



A typical suspension system would include:

- anchorage/anchorage connector (anchor bolt, trolley, carabiner, etc.)
- body wear (full-body harness)
- · connecting device (workline)
- suspension device (bos'n chair)

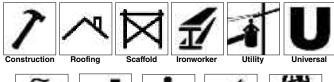
Retrieval – The retrieval system is primarily used in confined space applications where workers must enter tanks, manholes, etc., and may require retrieval from above should an emergency occur.



- anchorage/anchorage connector (tripod, davit)
- body wear (full-body harness)
- connecting device (retractable lifeline/retrieval unit)
- * The positioning and suspension systems are not designed for fall arrest, and therefore a back-up fall arrest system should be used.

Occupation/Application Legend

Proper selection of system components is essential to worker safety. The occupation legend is intended to serve as a guide to assist users in determining which products are best for which applications. Look for these symbols throughout the Miller® section.







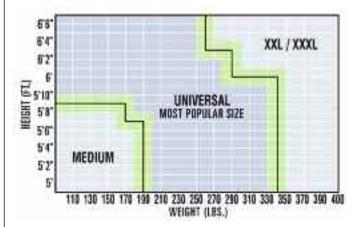






MILLER

Harness Sizing Chart



Sizing chart to serve as a guideline only. Universal typically fits large and XL sizes. Universal Medium size typically fits small or medium. If your size falls in the shaded areas, you may choose either size depending on your preference. The larger size may be more appropriate if you are required to wear heavier or bulkier clothing.

Contact your Customer Service Representative with any questions.

– continues –

Miller

Body Wear

Buyer's Guide to Harness Features

STANDARD FEATURES



Sliding Back D-Ring

 Sliding back D-ring with an injection molded, flexible Santoprene® D-ring pad offers adjustability and enhanced comfort.



Pull-Free Lanyard Rings

· Allow user to attach lanyard when not in use, minimizing hazards associated with the lanyard hanging freely.



Self-Contained Label Pack

· Integrated pack encapsulates labels minimizing damage and loss.

6 Easy Steps that Could Save Your Life:

How To Put On A Harness



1 Hold harness by back D-ring. Shake harness to allow all straps to fall in place.



2 If chest, leg and/or waist straps are buckled, release straps and unbuckle at this

D-RING OPTIONS



Front D-Ring

16

· Used for a variety of climbing, confined space, and rescue applications.



Side D-Rings

· Most commonly used for work positioning.



Shoulder D-rings

· Primarily used for lifting and lowering individuals, such as in confined space and rescue application.

3 Slip straps over shoulders so D-ring is located in middle of back between shoulder blades.



4 Pull leg straps between legs and connect to opposite end. Repeat with second leg strap. If belted harness, connect waist strap after leg straps.

ADJUSTMENT BUCKLE TYPES



Friction Buckle

To adjust the friction buckle, simply pass the webbing over the knurled bar and back down between the knurled bar and frame. Pull web end to tighten.



To connect the mating buckle, push the center bar buckle completely through the square link and allow it to fall into place. Pull web end to tighten.



Tongue/Grommet Buckle

The tongue buckle works similar to a standard belt buckle. Insert the loose strap of webbing through the tongue buckle placing the buckle tongue through the appropriate grommet hole. Then push the remaining webbing through the keeper.



5 Connect chest strap and position in midchest area. Tighten to keep shoulder straps



6 After all straps have been buckled, tighten all buckles so that harness fits snug but allows full range of movement. Pass excess strap through loop keepers.

NOTE: Canadian Harnesses Only

To meet CSA requirements, all harnesses sold to Canada have a unique label ("A" with arrow) to indicate the point of attachment.

Santoprene is a registered trademark of Monsanto Corp.



Miller

Miller® DuraFlex® Stretchable Harnesses

Patented Miller DuraFlex Harnesses feature special-formulated elastomer webbing that stretches to provide:

Maximum Comfort- DuraFlex Harnesses conform to the shape of the worker, stretching with every movement, so there is no bunching, binding, or kinking.

Improves Safety - With comfort unsurpassed, DuraFlex Harnesses offer a wider end-user acceptance. And, a comfortable harness is worn properly, enhancing compliance and safety on the jobsite.

Increases Productivity - Because DuraFlex Harnesses are stretchable, the worker has greater mobility with less fatigue.

Miller® DuraFlex® F650 Series

- · Stretchable webbing design
- · Belt loops to accommodate belts, back pads, and other accessories
- Front D- rings
- · Pull-free lanyard rings





DuraFlex Harness Model No.	. Sizes	Black D-Ring	Front D-Ring	Side D-Rings	Shoulder Strap Buckles	Leg Strap Buckles	Chest Strap Buckle	Sub- Pelvic Strap	Special Features	Occupations/ Applications
Miller Dur	aFlex Harnes	s Series	E650							
E650	U,S,M,L,XL	Yes	Option	No	Friction	Mating	Mating	Yes		U
E650-4	U,S,M,L,XL	Yes	Option	No	Friction	Tongue	Mating	Yes	Lanyard ring, belt loops	U
E650-7	U,S,M,L,XL	Yes	Option	Yes	Friction	Mating	Mating	Yes	fall indicator	水产品发车
E650-58	U,S,M,L,XL	Yes	Option	Yes	Friction	Tongue	Mating	Yes		水产品更高
Other Mill	er DuraFlex I	Harnesse	S							
E550	U,S,M,L,XL	Yes	Yes	No	Mating	Mating	-	Yes		U
E552	U,S,M,L,XL	Yes	Yes	Yes	Mating	Mating	-	Yes		水产品监
E850	U,S,M,L,XL	Yes	No	No	Friction	Mating	Mating	Yes	Lanyard ring,	U
E850-4	U,S,M,L,XL	Yes	No	No	Friction	Tongue	Mating	Yes	fall indicator	U
E850-7	U,S,M,L,XL	Yes	No	Yes	Friction	Mating	Mating	Yes		李 / 衛 至
E850-58	U,S,M,L,XL	Yes	No	Yes	Friction	Tongue	Mating	Yes		水产品鱼

NOTE: For color/webbing selection, add one of the following suffixes to the corresponding harness model number: "-SN for green nylon; "-EC" for orange nylon; or "D" for blue polyester webbing. (Ex: E650-SN) For front D-ring option, add "FD" as a suffix to the model number. (Ex: E650FD)

Miller® Specialty DuraFlex® Harnesses

Construction Harness E650-77 The Miller Construction Harness offers special value-added features ideal for construction applications.

- · Stretchable webbing design.
- · Permanently attached back pad with positioning side D-rings
- Belt loops to accommodate the removable 6414N body belt
- · Lanyard ring





Also available in non-stretch nylon webbing.

Ms. Miller Harness E570

only full-body harness on the market specially designed to fit female workers. The unique design keeps shoulder straps at the side and away from the chest, offers better hip support, and increases comfort.

The Ms. Miler Harness is the

- · Stretchable webbing design
- · Front loop for work positioning at the waist rather than the chest
- · Back and leg pads
- · Lanyard ring

Warehouse Picker's Harness

The Miller Warehouse Picker's Harness increases productivity and safety by preventing swing interference with the attached connecting device during warehouse operations. This uniquely-designed harness offers a D-ring web extension tacked to the back strap of the harness, keeping the components further away from the head so as not to interfere with the worker. In the event of a fall, the web extension detaches from the back strap allowing the D-ring to move into

position so that the worker remains upright.

- · Stretchable webbing design
- Unique D-ring web extension
- · Lanyard ring





Also available in non-stretch nylon webbing.

Tower Climbing Harness E650-88 The Miller Tower Climbing Harness combines comfort and mobility with a functional design.

- Stretchable webbing design
- Attached body belt with positioning side D-rings & two accessory rings for carrying tools/pouches
- Lightweight Coolmax back pad
- Sub-pelvic strap with enhanced saddle seat, including D-rings and coolmax padding, for extended positioning
- · Lanyard ring





Also available in non-stretch nvlon webbing.



Also available in non-stretch nylon webbing.

Miller

Miller[®] Specialty DuraFlex[®] Harnesses (continued)

Utility Harness E752

Miller Utility Harnesses minimize the amount of hardware above the waist to reduce electrical conductivity. In addition, the harnesses are independently thermal-arc tested to ensure superior performance.

- Stretchable webbing design.
- Web loop lanyard attachment* reduces the chance of electric shock.
- Chest strap adjustment/protective pads hold chest strap in place and keep the mating buckle away from the body.

Miller Specialty DuraFlex Harness

Adjustable belt loops accommodate linemen's belts.

* In Canada, utility harnesses include a back D-ring extension in place of the web loop to meet CSA requirements.

Also available in non-stretch nylon webbing.

E753 Only -

 Self-rescue positioning loops provide a positioning attachment point and may be used with bucket escape systems.

DuraFlex Harness Model No.	Sizes	Back D-Ring	Front D-Ring	Side D-Rings	Shoulder Strap Buckles	Leg Strap Buckles	Chest Strap Buckle	Sub- Pelvic Strap	Special Features	Occupations/ Applications
E650-77	U,S,M,L,XL	Yes	Option	Yes	Friction	Tongue	Mating	Yes	Attached back pad, belt loops, body	/ ^\
E650-78	$U,\!S,\!M,\!L,\!XL$	Yes	Option	Yes	Friction	Mating	Mating	Yes	belt, lanyard ring, fall indicator	* 2
E650-88	U,S,M,L,XL	Yes	Option	Yes	Friction	Mating	Mating	Yes	Attached body belt w/accessory rings, back pad, padded saddle seat	路水道
E650-89	U,S,M,L,XL	Yes	Option	Yes	Friction	Tongue	Mating	Yes	w/D-rings, lanyard ring, fall indicator	EX D. 24
E570	S/M,L/XL	Yes	No	No	Friction	Mating	Mating	No	Positioning loop, back/leg pads, lanyard ring, fall indicator	7 ^ \(\frac{1}{2} \)
E850-2	U,S,M,L,XL	Yes	No	No	Friction	Mating	Mating	Yes	D-ring web extension, lanyard ring, fall indicator	N.
E752*	S/M,L/XL	Web Loop	No	No	-	Mating	Mating	Yes	Chest strap adjustment/protective pads, adjustable belt loops, fall indicator	日本
E753*	S/M,L/XL	Web Loop	No	No	-	Mating	Mating	Yes	Chest strap adjustment/protective pads, adjustable belt loops, self- rescue positioning loops, fall indicator	製工





*In Canada, utility harnesses include a back D-ring extension in place of the web loop to meet CSA requirements

NOTE: To order Specialty Harnesses in non-stretch nylon webbing, simply drop the prefix "E" in the corresponding model number. (Ex: E650-77 becomes 650-77) For Front D-ring option, add "FD" as a suffix to the model number. (Ex: E650-77FD)

Miller brand harnesses meet all applicable OSHA, ANSI and CSA requirements, including ANSI Z359.1

Miller® Non-Stretch Harnesses

Miller Non-Stretch Harnesses have been meeting market demands for fall protection body wear for over 50 years.

Features include:

- Non-stretch nylon webbing is lightweight and durable
- Bright yellow color makes non-stretch harnesses readily visible and easy to inspect
- Back strap prevents user from falling out of the harness
- Fall indicator/warning flag indicates that the harness has been involved in a fall and should be removed from service
- Lanyard ring allows user to attach lanyard when not in use
- Also available in polyester webbing for greater chemical resistance

NOTE: To order polyester webbing, add a "D" as a suffix to the harness model number or replace the "-" with a "D". (Ex: 650D or 850D7)

Miller Non-Stretch 650 Series

- Lightweight nylon webbing
- Belt loops to accommodate belts, back pads and other accessories
- Front D-ring (optional)

Miller Specialty DuraFlex Harness

DuraFlex Harness Model No.	Sizes	Back D-Ring	Front D-Ring	Side D-Rings	Shoulder Strap Buckles	Leg Strap Buckles	Chest Strap Buckle	Sub- Pelvic Strap	Special Features	Occupations/ Applications
650	U,S,M,L,XL	Yes	Option	No	Friction	Mating	Mating	Yes	Lanyard ring, belt loops, fall indicator	U
650-4	U,S,M,L,XL	Yes	Option	No	Friction	Tongue	Mating	Yes	Lanyard ring, fall indicator	U
650-7	U,S,M,L,XL	Yes	Option	Yes	Friction	Mating	Mating	Yes	Lanyaru mig, ian mulcator	产量水质器
650-58	U,S,M,L,XL	Yes	Option	Yes	Friction	Tongue	Mating	Yes		产监察扩展
650-77	U.S.M.L.XL	Yes	Option	Yes	Friction	Tongue	Mating	Yes	Permanently-attached back pad	
550	U,S,M,L,XL	Yes	Yes	No	Mating	Mating	-	Yes		U
552	U,S,M,L,XL	Yes	Yes	Yes	Mating	Mating	-	Yes		7
750	S/M, L/XL	Yes	No	No	Friction	-	Mating	No	Lanyard ring, fall indicator	ペリネ品
751	S/M, L/XL	Yes	Option	No	-	Mating	Mating	Yes		1 3 p
850	U,S,M,L,XL	Yes	No	No	Friction	Mating	Mating	Yes		U of 🎤
850-4	U,S,M,L,XL	Yes	No	No	Friction	Tongue	Mating	Yes		7 &
850-7	U,S,M,L,XL	Yes	No	Yes	Friction	Mating	Mating	Yes	Lanyard ring, fall indicator	产基本网
850-58	$U,\!S,\!M,\!L,\!XL$	Yes	No	Yes	Friction	Tongue	Mating	Yes		乙基卡因

Miller brand harnesses meet all applicable OSHA, ANSI and CSA requirements, including ANSI Z359.1







Miller

Miller® Specialty Welder Harnesses



Miller Specialty Welder Harnesses and Fall Protection Kits are designed to meet the challenges of the harsh welding work environment.

Features

- Special blue, flame-retardant Nomex® webbing protects against weld splatter
- Yellow Kevlar® inner core adds strength and high temperature resistance
- Bright contrasting colors make inspection easier
- Meet National Fire Protection Association (NFPA) standards

Miller Lightweight/Comort Welding Harnesses

Harness Model No.	Sizes	Back D-Ring	Front D-Ring	Side D-Ring	Shoulder Strap Buckles	Leg Strap Buckles	Chest Strap Buckle		Special Features
650K	U,S,M,L,XL	Yes	Option	No	Friction	Mating	Mating	Yes	Belt Loops
650K-7	U,S,M,L,XL	Yes	Option	Yes	Friction	Mating	Mating	Yes	•
751K	S/M,L/XL	Yes	Option	No	_	Mating	Mating	Yes	None
850K	U,S,M,L,XL	Yes	No	No	Friction	Mating	Mating	Yes	None

Miller® Harness **Accessories**



Harness Accessory	Model No.	Description
1 - Body Belt	6414N	1-3/4" nylon webbing, tongue buckle with 11 grommets, universal size
2 - D-Ring Extension (not shown)	8928	18" web extension with a choke-off loop and a D-ring on the opposite end
3 - Coolmax Back Pad	9014	6" wide
4 - Coolmax Back Pad	9016	8" wide
4 - Coolmax Shoulder Pads	9017	With anti-slide rubber grip bar
5 - Field Retrofit Lanyard Clip (not shown)	9018	For attaching a lanyard when not in use
6 - Replacement Lanyard Ring (not shown)	9060	For attaching a lanyard when not in use
7 - Reflective Velcro® Sleeve	9052	Fluorescent lime green reflective material affixes to the straps of a harness for use in no or low light conditions, available in 25' rolls that can be cut to desired length
Reflective Velcro® Sleeve	9053	Fluorescent orange reflective material

Velcro is a registered trademark of VELCRO USA Inc.

Other Specialty Nomex/Kevlar Fall Protection Products

Lanyar Model No.	d Material	Two Legged	Harness Connection	Anchorage Connection	Std. Length*	Special Features
907K	1/4" Wire Rope	No	Locking Snap Hook	Locking Snap Hook	6'	SofStop shock absorber with Nomex
913K	Nomex/Kevlar Webbing	No	Locking Snap Hook	Locking Snap Hook	6'	cover & Kevlar core
940K	Nomex/Kevlar Webbing	No	Locking Snap Hook	Locking Snap Hook	6'	Double SofStop shock absorber (for 12' free fall) with
947K	1/4" Wire Rope	No	Locking Snap Hook	Locking Snap Hook	6'	Nomex cover & Kevlar core
8185K3	6' Nom	ex/Kevlar	webbing cross	s-arm strap wi	th D-ring a	nd loop
8477H			de bag w/heav rying strap	y-duty zipper o	losure & s	trong
*Availa	ble in lengths f	rom 4' to	10'.			

Heavy-Duty Welding Harness

- Rugged black Kevlar[®] webbing for harsh welding environments
- Meets ASTMF887 Arc Test requirements and are rated for arc exposure
- · Quick-connect buckles on the chest strap for easy/fast donning



Model No.	Back D-Ring	Front D-Ring	Side D-Rings	Shoulder Strap Buckles	Leg Strap Buckles	Chest Strap Buckle	Sub- Pelvic Strap	Special Features
650KQC-4	Yes	Option	No	Friction	Tongue	Quick- connect	Yes	Belt-loops,
650KQC-58	Yes	Option	Yes	Friction	Tongue	Quick- connect	Yes	adjustment
850KQC	Yes	Option	No	Friction	Quick- connect	Quick- connect	Yes	
850KQC-4	Yes	Option	No	Friction	Tongue	Quick- connect	Yes	Pull-down adjustment
850KQC-58	Yes	Option	Yes	Friction	Tongue	Quick- connect	Yes	

Miller® Body Belts

As of January 1, 1998, OSHA requires full-body harnesses for fall protection in the construction industry. Body belts should be used for work

positioning only or in conjunction with a full-body harness to provide fall protection.

• Nylon body belt w/tongue buckle, includes side D-rings & back pad



Model No.	Description	Occupations/ Applications
2NA	Nylon body belt w/tongue buckle, includes side D-rings & 3" back pad	产监水 べ
3NA	Nylon body belt w/tongue buckle, includes single D-ring & 3" back pad	7644
123N	Lined nylon body belt w/tongue buckle, includes single D-ring	乙基水 本
124N	Lined nylon body belt w/tongue buckle, includes side D-rings	产监水 べ

Miller Body Belts meet OSHA, ANSI and CSA Z259.1-95 requirements.

Miller

Connecting Devices

Miller® Shock-Absorbing Lanyards

Calculating Your Potential Fall Distance



Miller® Splat Indicator

For a quick and easy alternative to calculating your fall distance, use the Miller Splat Indicator.

 Similar to a plumb bob, simply attach the device to an anchorage or to the lanyard at the anchoring snap hook and lower the weight using the attached string.



Miller® Manyard® II Stretchable Shock-Absorbing Lanyards

Reduces Tripping Hazard

- Contract 6 ft. to 4 ft. greatly reducing the chances of tripping, snagging, or dragging
- Specially-woven shock-absorbing inner core smoothly expands to reduce fall arrest forces
- A heavy duty outer jacket serves as a wear indicator and back-up strap to the red inner core for added safety
- Working load of 310 lbs. and features a warning flag to indicate that it has arrested a fall



216M

When contracted, Manyard II Lanyards greatly reduce the chances of tripping, snagging, or dragging.



231M

Miller Manyard Shock-Absorbing Lanyards

Model No.	Material	No. of Legs	Harness Connection	Anchorage Connection	Special Features	Std. Lanyard Length (ft)*	Occupations/ Applications
216M	Webbing	One	Locking snap hook	Locking snap hook	Warning flag, red core/wear indicate	or 6'	U
219M	Webbing	One	Locking snap hook	Locking rebar hook	Warning flag, red core/wear indicate	or 6'	ノ図画が蘇
231M	Webbing	Two	Locking snap hook	Locking rebar hooks	Warning flag, red core/wear indicate	or 6'	人図画が蘇
232M	Webbing	Two	Locking snap hook	Locking snap hooks	Warning flag, red core/wear indicate	or 6'	7 ⊠ ≗
233M	Webbing	One	Choke-off loop	Locking snap hook	Warning flag, red core/wear indicate	or 6'	7回艦

^{*} Available in lengths from 4' to 10'.

NOTE: For color/webbing selection, add one of the following suffixes to the corresponding lanyard model number: "-SN" for green nylon; "-EC" for orange nylon: or "D" for blue polyester webbing.

Miller brand Manyard and Manyard II lanyards meet all applicable OSHA, ANSI and CSA requirements.

Miller® Manyard® Shock-Absorbing Lanyards

Reduces Fall Arrest Forces

With 20 years of design refinement, the "Original" Miller Manyard Shock-Absorbing Lanyards are unsurpassed in the market.

- Special woven shock-absorbing inner core reduces fall arrest forces
- Heavy-duty tubular outer jacket serves as a back-up web lanyard
- Unique warning flag provides visual proof that a lanyard has been involved in a fall and should be removed from service



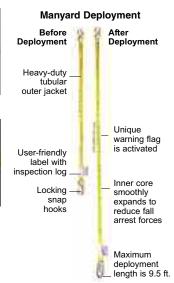
216WLS



233WLS

Miller Manyard Shock-Absorbing Lanyards

Model No.	Material	No. of Legs	Harness Connection	Anchorage Connection	Special Features	Std. Lanyard Length (ft)*	Occupations/ Applications
216WLS	Webbing	One	Locking snap hook	Locking snap hook	Warning flag	6'	U
219WRS	Webbing	One	Locking snap hook	Locking rebar hook	Warning flag	6'	人國監查經
231WRS	Webbing	Two	Locking snap hook	Locking rebar hooks	Warning flag	6'	人因监查
232WLS	Webbing	Two	Locking snap hook	Locking snap hooks	Warning flag	6'	≯図≝
233WLS	Webbing	One	Choke-off loop	Locking snap hook	Warning flag	6'	/⊠ ≗





Miller

Miller® StretchStop® Lanyards with SofStop® Shock **Absorber**

Minimizes the Chances of Tripping, Snagging or Dragging

Miller StretchStop Lanyards combine the integral SofStop Shock Absorber with a unique stretchable lanyard design. The Miller SofStop Shock Absorber is a shock-absorbing pack with a specially-woven inner core that smoothly expands to reduce fall arrest forces. A heavy-duty back-up safety strap is also incorporated for added fall protection.

Model No.	Material	No. of Legs	Harness Connection	Anchorage Connection	Extended Lanyard Length (ft)*	Occupation/ Applications
913SS	Webbing	One	Locking snap hook	Locking snap hook	6'	U
913RSS	Webbing	One	Locking snap hook	Locking rebar hook	6'	ノ図⊆が然
8798SS	Webbing	Two	Locking snap hook	Locking snap hooks	6'	7 🖾 🗗
8798RSS	Webbing	Two	Locking snap hooks	Locking rebar hooks	6'	/ 図 4 5 🛱

^{*}Available in lengths from 4' to 10'

NOTE: For color/webbing selection, add one of the following suffixes to the corresponding lanyard model number: "-SN" for green nylon; "-EC" for orange nylon: or "D" for blue polyester webbing.



Available in green or orange nylon webbing, or blue polyester webbing fro greater chemical resistance



Miller Lanyards with SofStop Absorber

The versatile Miller SofStop Shock Absorber pack is available as an integral component of various Miller brand rope, wire rope and web lanyards.

Model No.	Material	No. of Legs	Harness Connection	Anchorage Connection	Lanyard Length**	Special Features	Occupations/ Applications
928LS	-	N/A	Locking snap hook	D-ring	18"	-	U
901RLS*	Rope	One	Locking snap hook	Locking snap hook	6'		U
903RLS*	Rope	One	Locking snap hook	Locking snap hook	4' to 6'	Adjustable	U
907LS	Wire rope	One	Locking snap hook	Locking snap hook	6'	-	7 6 5
907NLS	Vinyl-coated wire rope	One	Locking snap hook	Locking snap hook	6'	_	7 5 5
910WLS**	Nylon webbing	One	Locking snap hook	Locking snap hook	4' to 6'	Adjustable	U
913WLS**	Nylon webbing	One	Locking snap hook	Locking snap hook	6'	-	U
940WLS**	Nylon webbing	One	Locking snap hook	Locking snap hook	6'	Dbl. SofStop pk.	đ
8798-6**	Nylon webbing	Two	Locking snap hook	Locking snap hooks	6'	_	7 % 5
8798-6R**	Nylon webbing	Two	Locking snap hook	Locking rebar hooks	6'	-	と図る が開











8798-6

- Available in nylon or polyester rope. To order nylon, add "-2" to the corresponding model number. (Ex.: 901RLS-2) To order polyester, add "-5" to the corresponding model number. (Ex.: 903RLS-5)
- Also available in polyester webbing. To order, add a "D" after the "W" in the corresponding model number. (Ex.: 910WLS becomes 910WDLS)
- *** Available in lengths from 4' to 10'.

Miller brand lanyards meet all applicable OSHA, ANSI and CSA requirements.

Miller® BackBiter™ Tie-Back Lanyards

The webbing and snap hooks of regular lanyards—and that includes the so-called "tie-back" lanyards available elsewhere—are not designed to withstand the rigors of tying back. The new Miller BackBiter Lanyard with the patent-pending 5K™ Snap Hook was designed from top to bottom for tie-back use.

Now, for the first time, you can tie-back SAFELY!

- All-in-one lanyard with SofStop Shock Absorber and cross-arm anchorage connector
- First snap hook with a 5,000 lb. gate load capacity from any angle

Model No.	Material	No. of Legs	Harness Connection	Anchorage Connection	Special Features	Lanyard Length (ft)	Occupations/ Application
913B	Webbing	One	Locking Snap Hook	Locking 5K Snap Hook	Thumb Tab	6'	∤⊠ ∯≩
8798B	Webbing	Two	Locking Snap Hook	Locking 5K Snap Hooks	Thumb Tab	6'	/ 冈 / 鱼 🖺

Note: For color/webbing selection, add one of the following suffixes to the corresponding model number; "-SN" for green nylon; "-EC" for orange nylon; or "D" for blue polyester webbing. (Ex: 913BD)

Miller BackBiter Lanyards meet all applicable OSHA, ANSI and CSA requirements. Cordura is a registered trademark of E. I. DuPont.

- Heavy-duty polyester webbing and Cordura® nylon webbing with five times more abrasion resistance
- · Available in green or orange nylon webbing, or blue polyester webbing for greater chemical resistance
- * Each Miller 5K Snap Hook now available with user-friendly thumb tab.





Miller® MiniLite® Fall Limiter

What Is A Fall Limiter?

A Fall Limiter is a self-retracting lanyard with a quick-activating braking system that limits a free fall to inches. In contrast to shock-absorbing lanyards, a Fall Limiter eliminates the need for extended fall distance clearance. This minimizes the risk of injuries and makes rescue easy.

- Lightweight, compact design only 2.5 lbs.
- · Corrosion-resistant interior frame and components
- · No annual factory recertification required
- · Visual load indicator
- High-impact protective outer cover
- · Prominent reflective labeling
- · Available with a variety of integral anchorage connectors
- Meets OSHA, ANSI, CSA Z259.2.2 Type 1 and requirements

MiniLite Fall Limiter FL11

The new MiniLite Fall Limiter:

- · Arrests free falls within inches
- . Offers up to 11 feet of working capacity
- Is so compact that it fits in the palm of your hand
- · Provides the best overall value when compared with competitive units
- * Quick-activating, high-strength stainless steel braking system

Miller MiniLite Fall Limiter -**Anchorage connector Options**

Model No.	Description	Occupation/ Applications
FL11	MiniLite without an anchorage connector	U
FL11-1	MiniLite w/steel twist-lock carabiner	人本図集 が
FL11-2	MiniLite w/stainless steel swivel shackle	7 本図監 証
FL11-3	MiniLite w/carabiner and swivel shackle	/ 本図を記憶知器
FL11-4	MiniLite w/attached 3' (1m) cross-arm strap*	2 ⊠ ff ⊑
FL11-5	MiniLite w/locking rebar hook (2-1/2" (63mm) gate opening)	2 ⊠ A ⊆ B
FL11-6	MiniLite w/rebar hook swivel shackle	7 図湖 ≦ 縣
FL11-7	MiniLite w/locking snap hook (3/4" (19mm) gate open	ning)
FL11-8	MiniLite w/snap hook and swivel shackle	U
FL11-9	MiniLite (FL11) w/no snap hook on the web lanyard e	end U
FL11-10	MiniLite w/swivel shackle (FL11-2) and no snap hook on the web lanyard end	U

Miller MiniLite Limiter - Anchorage Connector Options

Select from a variety of 5,000 lb. rated anchorage connecting options for your MiniLite Fall Limiter. Integration of anchorage connection devices reduces overall cost of ownership.











Miller

FL11

Miller® MightyLite Self-Retracting Lifelines

Up to 30% lighter than competitive models in their class, MightyLite Self-Retracting Lifelines are easy to carry and install overhead. The units can also be permanently mounted for repeat use. MightyLite Lifelines are the perfect fall protection solution for an array of construction, industrial, warehouse, utility, telecommunications, agriculture, mining and confined space applications.

- Durable and dependable construction
- · No annual factory recertification required*
- · Ideal for hard-to-mount locations
- Corrosion-resistant stainless steel and aluminum components extend service life
- Carabiner and tagline included**

Available in lengths from 20 feet to 130 feet with galvanized wire rope, stainless steel wire rope, Kevlar rope, and/or polyester webbing.

RL50P

ANSI Z359

Model No.	Lifeline Material	Length (ft)	Weight (lbs)	Occupations/ Applications
RL20P	1" Polyester webbing	20'	11	U
RL20G	3/16" Galvanized cable	20'	12	U
RLS30G	3/16" Galvanized wire rope	30'	14	U
RL50P	1" Polyester webbing	50'	21	U
RL50G	3/16" Galvanized wire rope	50'	21	U
RL65G	3/16" Galvanized cable	65'	30	U
RL100G	3/16" Galvanized wire rope	100'	53	U
RL130G	3/16" Galvanized wire rope	130'	56	U
RL175G	3/16" Galvanized wire rope	175'	70	U

ANSI A10.32

RL20P	1" Polyester webbing	20'	11	U	
RL20G	3/16" Galvanized cable	20'	12	U	
RL20SS	3/16" Stainless steel cable	20'	12	U	
RLS30G	3/16" Galvanized wire rope	30'	14	U	
RLS30S	3/16" Stainless steel wire rope	30	14	U	
RL50P	1" Polyester webbing	50	19	U	
RL50G	3/16" Galvanized wire rope	50	20	U	
RL50SS	3/16" Stainless steel wire rope	50'	21	U	
RL65G	3/16" Galvanized wire rope	65'	24'	U	
RL65SS	3/16" Stainless steel cable	65'	24	U	
RL100G	3/16" Galvanized wire rope	100'	54'	U	
RL100SS	3/16" Stainless steel wire rope	100'	54	U	
RL130G	3/16" Galvanized wire rope	130'	56'	U	
RL130SS	3/16" Stainless steel wire rope	130'	56	U	

- Does not apply to Canada due to CSA Z259.2.2-98 requirements. Must be inspected by a DFP authorized service center if involved in a fall or if fails user visual or function inspection.
- **Also available without the carabiner and tagline. To order add a "B" to the corresponding model number

Meets OSHA, ANSI, CSA Z259.2.2 Type 2 and CE requirements.



Miller

Miller® Rope Grabs

Miller Rope Grabs move easily up and down vertical lifelines to provide continuous fall protection. Trailing models offer complete hands-free operation for increased productivity. In the event of a fall, Miller Rope Grabs lock instantly.

Corrosion-resistant stainless steel construction



8173







8174 8175 8175SLS

Model No.	Description	Occupations/ Applications
8172*	Stainless steel, compact, trailing wire rope grab w/5/16" wire rope tunnel	ノベ図≦/ 器
8173	Stainless steel, compact trailing rope grab w/5/8" rope tunnel	アペ図画多態
8174	Stainless steel, manual rope grab w/ 5/8" or 3/4" synthetic rope tunnel	ノペ図≦彡 器
8174MLS	Same as 8174 except w/attached 4' Manyard shock-absorbing lanyard w/locking snap hook	/ ペ図画/熱
8174RLS	Same as 8174 except w/attached 2' rope lanyard w/locking snap hook	人本図画/ 鼠
8174WLS	Same as 8174 except w/attached 2' nylon web lanyard w/locking snap hook	ナペ図& 季盛
98174LS	Same as 8174 except w/attached SofStop shock-absorber w/locking snap hook	ノベ図≦ 夕然
8175	Stainless steel trailing rope grab w/5/8" rope tunnel	ノペ図ミク縣
8175RLS	Same as 8175 except w/attached 3' rope lanyard w/locking snap hook	アペロミク 語
8175WLS	Same as 8175 except w/attached 3' nylon web lanyard w/locking snap hook	ノベ図≦ 夕簡
8175SLS	Same as 8175WLS except w/SofStop shock-absorber w/locking snap hook	/ へ回 4 / 8

^{*}Does not meet CSA requirements

Miller rope grabs meet all applicable OSHA, ANSI, CSA Z259.2.1-98 and requirements.

Miller Vertical Lifelines

Rope grabs are to be used with 5/8 inch or 3/4 inch synthetic rope lifeline with a minimum tensile strength of 5,000 pounds and secured to an anchorage independent of the worker's platform. Standard lifeline lengths are 25 ft., 50 ft., 75 ft., and 100 ft.; additional lengths are available. Wire rope grabs are to be used with 5/16 inch galvanized or stainless steel wire rope lifelines.

Model No*	Description
	Description
194R-2	Nylon rope lifeline with carabiner and thimble; 5/8" diameter
194R-5	Polyester rope lifeline with carabiner and thimble; 5/8" diameter
195R-2	Nylon rope lifeline with thimbles; 5/8" diameter
195R-5	Polyester rope lifeline with thimbles; 5/8" diameter
300L	Polyester/polypropylene blend rope lifeline with locking snap hook and loop; 5/8* diameter

^{*} Must specify length when ordering.

Miller Positioning and Restraint Lanyards

The Miller brand represents a variety of rope, wire rope, and web lanyards recommended for work positioning and restraint only. The standard lanyard length is 6 feet; additional lengths are available.







201RLS
Rope lanyards are available in nylon or polyester to fit user needs.

207LS
Wire rope lanyards are super-strong, heat resistant and highly abrasion resistant.

213WLS

Nylon web lanyards are economical, abrasion resistant, and easy to clean and store. Also available in polyester webbing.

Model No.	Material	Harness Connection	Anchorage Connection	Std. Lanyard Length (ft)	l Special Features	Occupations/ Applications
198RLS*	Rope	Choke-Off Loop	Locking Snap Hook	6'	-	アベミホ
201RLS*	Rope	Locking Snap Hook	Locking Snap Hook	6'	-	ノベ亜水
202RRS*	Rope	Locking Snap Hook	Locking Snap Hook	6'	-	ナベ塩水
203RLS*	Rope	Locking Snap Hook	Locking Snap Hook	4' to 6'	Adjustable	ナベモホ
204RLS*	Rope	Locking Snap Hook	Thimble	6'	For Attaching a Carabiner	ナベ塩水
207LS	Wire Rope	Locking Snap Hook	Locking Snap Hook	6'	-	アベニホ
207NLS	Vinyl-coated Wire Rope	Locking Snap Hook	Locking Snap Hook	6'	-	とへ監索
210WLS**	Nylon Webbing	Locking Snap Hook	Locking Snap Hook	4' to 6'	Adjustable	アベニホ
212WLS*	Nylon Webbing	Locking Snap Hook	Web Look	6'	-	アベニホ
213WLS**	Nylon Webbing	Locking Snap Hook	Locking Snap Hook	6'	_	と本画水
226WRS	Polyester Webbing	Locking Snap Hook	Locking Rebar Hook	6"	_	ノベニヤ

- Available in nylon or polyester rope. To order nylon, add "-2" to the corresponding model number. To order polyester, add "-5" to the corresponding model number. (Ex.: 201RLS-2; Ex.: 203RLS-5)
- ** Also available in polyester webbing. To order, add a "D" after the "W" in the corresponding model number. (Ex.: 210WLS becomes 210WDLS)
- All Miller brand lanyards meet applicable OSHA, ANSI, and requirements.

Miller Positioning Assemblies







Model No.	Description	Occupations/ Application
6756RS	13-link rebar chain assembly with two locking snap hooks and one locking rebar hook; swivel attachment and length adjuster	月网络朱
6756RS4	4-link rebar chain assembly with two locking snap hooks and one locking rebar hook; swivel attachment	7 网络木
6757WRS*	1" nylon web positioning assembly with two locking snap hooks and one locking rebar hook	人因更未愿

^{*}Must specify webbing length of 27 inches or 35 inches.

8814

Fall Protection

Miller

Anchorage Connectors

Miller Anchorage Connectors are used for securing a connecting device to an anchorage. Careful consideration should be given to selecting a proper anchorage for ultimate safety. The anchorage should: be easily accessible, support 5,000 pounds per worker, and be located a safe distance above any lower obstacles. Miller Anchorage Connectors meet all applicable OSHA and ANSI requirements.

Miller[®] Shadow[™] Beam Anchors

Miller Shadow Beam Anchors connect horizontally to a wide range of I and H beam flanges from 4 inches to 24 inches wide and up to 2-1/2 inches thick. Once attached, the units (Models 8811 and 8814) slide along the beam with the worker to provide increased safety, mobility, and productivity. The fixed unit (Model 8815) is designed to be tightened horizontally or vertically, firmly gripping the beam or column to provide a temporary or permanent anchorage attachment.





Model No.	Description	Fits Flange Sizes	Occupations/ Applications
8814-12	Lightweight, adjustable Shadow Beam Anchor – stainless steel & high strength aluminum	4" to 12"	115
8814-24	Lightweight, adjustable Shadow Beam Anchor – stainless steel & high strength aluminum	12" to 24"	115
8815-12	Lightweight, fixed Shadow Beam Anchor – stainless steel & high strength aluminum	4" to 12"	7 Ø 🖺
8815-24	Lightweight, fixed Shadow Beam Anchor – stainless steel & high strength aluminum	12" to 24"	115
8816-14	Lightweight, adjustable ShadowLite Beam Anchor- high-strength aluminum & bronze	- 3"to 14"	785

Integral Positive-Lock Engagement System

To ensure proper installation, Miller Shadow Beam Anchors feature the first integral positive-lock engagement system on the market. With it, the anchor jaws are locked firmly into the cross bar with a durable spring-loaded engagement pin. Unlike competitive models, Miller Shadow Beam Anchors eliminate the need for loose connection pins which can be installed incorrectly or inadvertently disengaged.

Temporary Anchorage Connectors

Push-Thru Eye Bolt 420 This anchorage connector offers simple one-hand installation and can be used for a wide range of applications. Includes the integral SofStop Shock Absorber.



Wire Hook 470 Stainless steel wire hook connects to various anchorages including railings, small I-beams, angle iron, and scaffolding. Simply

squeeze the spring-loaded hook and slip the large opening over the approved structure.

- continues -

Extension Pole & Hook 475 The extension pole and hook is ideal for climbing ladders and towers. Installs fall arrest systems up to 20 feet from ground level to



angle iron, piping, and related structures.



Rebar Hook Anchors 480/485

Designed to facilitate anchoring to scaffolding, pipe or angle iron. This anchor features a locking rebar hook for easy, one-hand installation, and a D-ring on the other end to accommodate the connecting device.



Beam Trolleys 9065 Miller beam trolleys are adjustable to fit different size Ibeams and slide along with the

worker to provide maximum mobility. The new lightweight beam trolley with retrofit kit adjusts to fit beam flanges from 3 inches to 8-1/2 inches wide.

Cross-Arm Strap 8183

The Miller cross-arm strap wraps around I-beams and other structures forming a secure attachment point for lanvards and other connecting devices



Carabiners 17D-1/17D-2, 18D-1/18D-2 Convenient, twist-lock carabiners have an unlimited number of uses.



Steel Carabiner 1" gate opening



Lightweight Aluminum gate opening



Steel Carabiner 2" gate opening



Lightweight Aluminum Carabiner 2-1/4" gate opening

Miller Temporary Anchorage Connectors

Model No.	Product	Description	Occupations/ Applications
420	Push-Thru Eye Bolt	Spring-action anchorage connector fits 3/4" diameter holes; features SofStop shock absorber	U
470	Wire Hook	Stainless steel, spring-loaded wire hook	U
475	Extension Pole & Hook	20' extension pole with spring-loaded hook	U
480	Rebar Hook Anchor	Locking rebar hook (w/ 2-1/2" throat opening) and D-ring connected w/ 2" nylon webbing	U
485	Rebar Hook Anchor	Same as Model 480 except includes the integral SofStop shock absorber	U
440	Cross-Arm Chain	6' chain with an oval ring on each end	U
8183	Cross-Arm Strap	2" nylon webbing strap features a 2" D-ring which slips through a 3" D-ring	U
8185	Looped Cross- Arm Strap	2" nylon webbing strap features a 2" D-ring which slips through looped webbing	U
450	Beam Clamp	Steel clamp designed for attachment to horizontal I-beams, S-beams & W-beams up to 9" wide; features swivel attachment ring for connecting devi	ces
455	Beam Clamp	Same as Model 450 except that it accommodates beams up to 12-1/2" wide	U
9065	Beam Trolley	Steel, sliding beam trolley accommodates I-beams up to 4-1/2" wide; load rating up to 400 lbs.	U
9065-1	Beam Trolley Retrofit Kit	Retrofit kit used w/model 9065 accommodates I-beams up to 8-1/2" wide	U
17D-1	Twist-Lock Carabiner	Steel twist-lock carabiner w/1" throat opening	U
17D-2	Twist-Lock Carabiner	Lightweight, aluminum twist-lock carabiner w/ 1" throat opening	U
7D-3	Triple-Action Twist-Lock Carabiner	Lightweight, aluminum, triple-action twist-lock carabiner w/1" throat opening	U
18D-1	Large Twist- Lock Carabiner	Steel twist-lock carabiner w/2" throat opening	U
18D-2	Large Twist- Lock Carabiner	Lightweight, aluminum twist-lock carabiner w/2-1/4" throat opening	U



Installs on

variable pitch

wood

Miller

Permanent Anchorage Connectors



Mod	Model			
No.	Product	Description	Applications	
410	Mounted D-ring	Steel D-ring w/plate, complete w/four 3/8" diameter bolts, lock washers, nuts & a drilling template	U	
415	D-Bolt Anchor	1/2" diameter D-bolt; 1-1/4"long (one piece unit w/lockwasher & nut)	U	
416	D-Bolt Anchor w/hardware	D-bolt for up to 4" working thickness (separate 5/8" diameter bolt w/lockwasher & nut)	U	
417	D-Bolt Anchor only	Same as model 416 except without bolt w/lockwasher & nut	U	

Temporary Horizontal Lifeline The Miller SkyGrip™ HLL Cable

Systems are designed for easy installation on steel or concrete applications. A variety of innovative features have been engineered into these new systems, making them extremely user friendly with enhanced safety considerations.



- Compact & lightweight provides for easier handling, installation and storage
- Above-the-beam adjustment patent-pending design allows for easy one-person installation and dismantle, increasing safety and productivity
- Continuous pass-through design 100% tie-off connection with multi-span systems
- Single-span systems (no intermediate stanchions) up to 60-ft. (18.3 m); multiple-span systems up to 300-ft. (91.4 m)
- Tension indicator proper tensioning of system ensures accurate fall clearance requirements
- Interchangeable bases between steel and concrete applications modular design maximizes investment and increases versatility
- Durable zinc-plated steel construction corrosion resistant for increased durability and longer service life

Miller SkyGrip Systems for Concrete Applications

-		• • •
Model No.	Description	Workers per System
SGC/30	30' system	2
SGC/60	60' system	2
SGC/120	120' system	4
SGC/180	180' system	5
SGC/240	240' system	5
SGC/300	300' system	5

Miller SkyGrip Systems for Steel Applications with Standard Base

Model No.	Description	Workers per System
SGS18/30	30' system	2
SGS18/60	60' system	2
SGS18/120	120' system	4
SGS18/180	180' system	6
SGS18/240	240' system	6
SGS18/300	300' system	6

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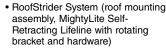
Miller SkyGrip Systems for Steel Applications with Large Base

Model No. Description		Workers per System
SGS36/30	30' system	per dystem
SGS36/60	60' system	2
SGS36/120	120' system	Δ
SGS36/180	180' system	6
SGS36/240	240' system	6
SGS36/300	300' system	6

Roofing Fall Protection Products

Miller® RoofStrider Systems

RoofStrider System The RoofStrider System is designed to offer continuous fall protection for workers on variable pitch wood roofs. It installs on roof peaks or on flat sides, and over most ridge vents, studs, joists, etc. Kit Includes:



- DuraFlex E850 Harness Durable Carrying Bag
- Instructional Video

roofs.

Uniquely designed for attachment to sloped or flat metal roofs and metal decking.

RoofStrider II System

The RoofStrider II System is designed for use on standing seam metal roofs and metal decking. The adjustable clamping feet tighten to standing seams from 24" to 32" apart on metal roofs (24 gauge or greater) to provide convenient and dependable fall protection. Optional screw-on feet may be ordered for attaching to metal decking.

• RoofStrider II System (roof mounting assembly with clamping feet, MightyLite Self-Retracting Lifeline with rotating bracket and hardware)

Features for RoofStrider and RoofStrider II Systems: **Maximum Mobility**

- Swivel 360° providing constant protection without sacrificing worker maneuverability
- Accommodates varying length MightyLite Self-Retracting Lifelines (SRL's)

Greater Versatility

- Install on sloped or flat roof surfaces
- Systems designed for wood roofs, metal roofs, and metal decking

Superior Performance

- MightyLite SRL's require no annual factory recertification* increasing productivity
- MightyLite SRL's arrest free falls within 24 inches (610mm) while energyabsorbing legs reduce fall forces

Simple Installation

• Minimal tools required • Designed to not damage roof • Easily moved from job to job

Meets OSHA 1926.500 subpart M construction fall protection regulation and ANSI

*Does not apply to Canada due to CSA Z259.2.2-98 requirements. Must be inspected by a Dalloz Fall Protection authorized service center if involved in a fall, or if fails user visual or function inspection.





Miller® Roof Anchor Kits

Miller Roof Anchor Kits are easy to install and are ready in minutes to provide hours of protection.

All Roof Anchor Kits include:

- Two reusable roof anchors
- Steel twist-lock carabiner
- Nylon rope lifeline
- DuraFlex Stretchable Harness
- Manual stainless steel rope grab with 2' webbing lanyard with shock absorber

RoofStrider II System Options:

SRMF-1

Clamping feet with hardware included with the RoofStrider II System. May be ordered separately and attached to an existing RoofStrider System.

SRMF-2

SRMF-2

Screw-on feet with metal piercing hardware for metal decking or flat roof applications. Must be ordered separately. Not included with the RoofStrider II System.





Model No.	Description
RoofStrider	System Kits
RM50P RM65G*	RoofStrider Kit w/50' MightyLite SRL, polyester webbing RoofStrider Kit w/65' MightyLite SRL, galvanized wire rope
RoofStrider	II System Kits and Accessories
SRM SRM30G* SRM50P SRM50G* SRM65G*	RoofStrider II Mounting Assembly with clamping feet Kit w/30' MightyLite SRL, galvanized wire rope Kit w/50' MightyLite SRL, polyester webbing Kit w/50' MightyLite SRL, galvanized wire rope Kit w/65' MightyLite SRL, galvanized wire rope
SBMF-1	Clamping feet and hardware for use w/RoofStrider II System

Screw-on feet and hardware for use w/RoofStrider II System

Roof Anchor Kits and Accessories

KA10^^	Kit w/single-use root anchors and rope liteline
RA20**	Kit w/reusable roof anchors and rope lifeline
RA10-1	12 single-use roof anchors/72 nails
RA15-1	10 reusable roof anchors w/D-ring/60 nails
RA20-1	2 reusable roof anchors/20 screws

- Also available with stainless steel wire rope. To order, change the "G" to an "SS" in the corresponding model number. (Ex: SRM50G becomes SRM50SS) Must specify 25' or 50' rope lifeline. Simply add "-25" or "-50" to the model number. (Ex: RA10-25; RA20-50) Kits may also be ordered with an 850 Non- Stretch Harness in place of the E850 Harness. Add an "N" to the model number. (Ex: RA10N)

NOTE: Roof Anchor Kits may also be ordered with polyester/polypropylene blend rope lifeline. Call customer service for ordering details

Climbing & Fall Protection Systems

GlideLoc Ladder Climbing System Kits (Rail)

New GlideLoc Vertical Height Access Ladder System Kits provide an innovative solution that is easy-to-use, requires minimal maintenance, and provides superior safety. The easy-climb GlideLoc System offers hands-free safety at height that ultimately increases worker mobility, safety, and productivity.

Kits are available in aluminum, galvanized, or stainless steel construction

Kits come complete with GlideLoc rail, gated top end-stop, gated bottom end-stop, ladder attachment brackets, and hardware. Systems accommodate one worker per section of rail. Kits are available in galvanized steel, aluminum and stainless steel. GlideLoc fall arresters are sold separately.





Miller

Miller GlideLoc System Kits

Galvanized Model No.	<i>Aluminum</i> Model No.	Stainless Steel Model No.	System Length	Sections of 10' Rail	No. of Rung Clamps
GG0020	GA0020	GS0020	20'	2	4
GG0030	GA0030	GS0030	30'	3	6
GG0040	GA0040	GS0040	40'	4	7
GG0050	GA0050	GS0050	50'	5	9
GG0060	GA0060	GS0060	60'	6	10
GG0070	GA0070	GS0070	70'	7	11
GG0080	GA0080	GA0080	80'	8	13
GG0090	GA0090	GA0090	90'	9	14
GG0100	GA0100	GA0100	100'	10	16
GG0110	GA0110	GA0110	110'	11	17
GG0120	GA0120	GA0120	120'	12	19
GG0130	GA0130	GA0130	130'	13	20
GG0140	GA0140	GA0140	140'	14	21
GG0150	GA0150	GA0150	150'	15	23
GG0160	GA0160	GA0160	160'	16	24
GG0170	GA0170	GA0170	170'	17	26
GG0180	GA0180	GA0180	180'	18	27
GG0190	GA0190	GA0190	190'	19	29
GG0200	GA0200	GA0200	200'	20	30

Confined Space Products & Systems

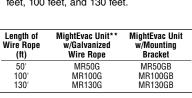
Miller® MightEvac™

Self-Retracting Lifeline with Emergency Retrieval Hoist

The new Miller MightEvac combines the superior performance and reliability of the best-selling MightyLite Self-Retracting Lifeline Series with a quick-activating retrieval mechanism for emergency evacuation.

- No Annual Factory Recertification Required*-Significant long-term savings/lower cost of ownership
- 20% lighter than competitive models
- Provides quick and easy rescue with a 4:1 mechanical advantage (average speed of 25 feet per minute)
- 310 lb. weight capacity
- Durable, field-tested construction
- · Corrosion-resistant stainless steel/aluminum components
- Convenient, heavy-duty carrying handle
- Available in galvanized or stainless steel wire rope and Kevlar rope in lengths of 50 feet, 100 feet, and 130 feet.

Length of Wire Rope (ft)	MightEvac Unit** w/Galvanized Wire Rope	MightEvac Unit w/Mounting Bracket
50'	MR50G	MR50GB
100'	MR100G	MR100GB
130'	MR130G	MR130GB



Length of Wire Rope (ft)	MightEvac Unit w/7-foot Tripod & Mounting Bracket	MightEvac Unit w/7-foot Tripod, Mounting Bracket & ManHandler Hoist	MightEvac Unit w/9-foot Tripod & Mounting Bracket	MightEvac Unit w/9-foot Tripod Mounting Bracket & ManHandler Hoist
50'	MR50GC	MR50GCM	MR50GX	MR50GXM
100'	MR100GC	_	MR100GX	_
130'	MR130GC	_	MR130GX	_

- Confined Space Systems also include a pulley, carabiner, and two heavy-duty equipment bags.
- ** For stainless steel wire rope, change the "G" to an "S" in the corresponding model number. (Example: MR50G becomes MR50S and MR130GC becomes MR130SC) For Kevlar Rope, change the "G" to a "K" in the model number. ManHandler Hoist only available in 60' length.

Visit us online at www.hanessupply.com



Miller

Miller® ManHandler™ Hoist

The Miller ManHandler Hoist is the perfect solution for a range of applications including confined space entry, rescue, positioning, and personnel/material handling.

Features:

- Compact, durable steel construction
- Smooth, controlled winding action
- · Effortless lifting and lowering with 5:1 gear ratio
- Anti-backlash crank handle braking system prevents free-wheeling
- Built-in mounting bracket
- Integral load indicator warns of overloading and the need for inspection and/or service
- 350 lb. working capacity



Model No.	Description
8442-Z7/65	ManHandler Hoist w/65' of 3/16" galvanized wire rope
8442GC-Z7/65	ManHandler Hoist w/65' of 3/16" galvanized wire rope & 7' tripod
8442-Z7/100	ManHandler Hoist w/100' of 3/16" galvanized wire rope

ANSI A10.32

Model No.	Description
8442/65	ManHandler Hoist w/65' of 3/16" galvanized wire rope
8442/100	ManHandler Hoist w/100' of 3/16" galvanized wire rope
8440/60	ManHandler Hoist (material winch) w/60" of 3/16" galvanized wire rope
8441/88	ManHandler Hoist (material winch) w/88' of 3/16" galvanized wire rope

Miller® Tripod
The versatile, lightweight Miller® Tripod is designed for typical confined space and rescue applications.

Features:

- Lightweight only 42 lbs., high-strength aluminum construction
- Withstands up to 5,000 lbs. of vertical
- Adjustable legs with integral push pins, ideal for uneven surfaces
- Independent leg locking feature hold legs securely in place
- · Safety chain and tripod feet with rubber skid pads and serrated edge prevent slippage in icy conditions
- · Available with reflective tape



	Model No.	Description		
51 7' high-strength aluminum tripod				
	51X	9' high-strength aluminum tripod		

Miller DuraHoist™ Portable **Confined Space Systems**

DuraHoist Complete Four-Piece Confined Space Systems consist of a One-Piece Adjustable Mast and Three-Piece Portable Base.

Suggested Applications:

- Public Utilities: Vault and manhole entry, pump/lift/valve stations, water treatment, and wastewater industries
- · General Industry (Food, Chemical, Pulp and Paper): Elevated manholes, storage tanks, platforms/mezzanines, underground vaults, clarifier tanks, pre-heaters

Features:

- · System breaks down into four lightweight aluminum components for easy storage, transport and set-up. No tools required for assembly.
- · Overall system height adjusts from 79 in. to 100 in.
- Modular design allows the use of various fixed and portable bases and an optional mast with extensions. Multiple winches and/or lifeline systems may be mounted as required.

Miller Complete Four-Piece Hoist/Winch Systems

Model No.	Description
DH-1	Four-Piece System with ManHandler hoist/winch w/65' of 3/16" galcanized steel cable
DH-2	Four-Piece System without ManHandler hoist/winch

Miller Adjustable Mast Options

Combining Lower Mast Extensions with the One-Piece Adjustable Mast or the Two-Piece Upper Mast eliminates the need for custom-length masts. The Upper Mast also provides additional solutions to height-restrictive applications.

- One-Piece Adjustable Mast— Compatible with any one Lower Mast Extension; Overall mast height adjusts from 74" to 89," Mast offset adjusts from 12" to 29"
- Two-Piece Upper Mast— Two-piece upper mast is compatible with any two Lower Mast Extensions, not exceeding a combined 90" in height for the DH-21/ or 78" for the DH-23
- Lower Mast Extensions— Extensions provide the flexibility to change overall mast height from 41" to 146"



Miller Adjustable Mast Options

-	-		
Model No.	Description		
DH-3/	One-Piece Adjustable Mast		
DH-21/ 12" to 29" Adjustable Offset Upper Mast			
DH-23	30" to 48" Adjustable Offset Upper Mast	_	
DH-22/21	21" Lower Mast Extension	_	
DH-22/33	33" Lower Mast Extension	_	
DH-22/45	45" Lower Mast Extension		
DH-22/57	57" Lower Mast Extension		



Miller

Rescue & Controlled Descent Devices

The Miller® Series 70 **Universal Rescue** System

The Miller Series 70 Universal Rescue System is a lightweight, compact, versatile access and retrieval rope system. With a simple, one-person operation, the rope control handle allows the user to easily ascend and descend the rope line. Should an emergency rescue situation occur, a top-side worker may activate the system to retrieve the user. Ideal for refineries, grain elevators, subways, fire departments, breweries, chairlifts, window washing, confined spaces, shipbuilding, transmission towers, power plants, offshore drilling, and bridge inspection.

The Series 70 System consists of:

- · Aluminum head assembly with roller pulley and anti-reversing lock
- Kernmantle rope with a breaking strength of 5600 lbs. and hightemperature resistance to 360°F
- · Rope control handle with friction locking device and with permanently attached Manyard shock-absorbing lanyard
- Two carabiners
- · Convenient carrying bag

A secondary fall arrest system is recommended.

Model No.	Description
70-100	Series 70 System w/25' working length
70-200	Series 70 System w/50' working length
70-400	Series 70 System w/100' working length
70-500	Series 70 System w/125' working length
70-C	Rope control handle w/attached Manyard shock-absorbing lanyard
6004NS	Bos'n Chair

^{*} Rope length is divided by four to determine maximum working length.

Miller® Manual **Descent Device**

The Miller Manual Descent Device. controlled by the user, allows for making descent fast or slow; decelerating and stopping by applying slight outward pressure on the free end of the line; and locking in a stationary position for a hands-free work environment. The device must be ordered with Miller brand descent rope.



Miller Rescue & Controlled Descent Devices

Model No.	Description	
8113	Descent Device Unit	
8195	Polyester-braided descent rope	
6004NS	Bos'n Chair	

^{*} Model No. 8113/ Descent Device Unit must be ordered with Model No. 8195/ polyesterbraided rope (please specify length)

Miller SafEscape™ ELITE Rescue/ **Descent Device**

The Miller SafEscape ELITE RDD is the next-generation global solution for rescue/ descent that meets all applicable safety standards throughout the world, lowers cost of ownership, enhances safety, and is easy to use.

Features:

- · Meets all applicable safety standards globally
- · No annual factory recertification
- User-rated for up to two workers
- · Approved for multiple
- Bi-directional design
- Up to 1,640' lifeline descent capacity
- · Lightweight and compact design



• Convenient kit options available

Miller SafEscape ELITE RDD Kits

•			
Model No.	Description Crane Rescue Kit— Kit includes Miller SafEscape ELITE RDD, rescue harness, cross-arm strap, retrieval yoke & rescue bag		
SECRKT			
SEWPKT	Wind Energy Kit– Kit includes Miller SafEscape ELITE RDD with hoisting wheel & ladder bracket, T-bar, edge protector, 3 anchor slings, 3 carabiners, pulley, adjustable rope anchor, rescue rope grab, accessory bag & kit bag		
SEWPKTC	Wind Energy Kit with Humidity-Resistant Storage Case—Kit includes Miller SafEscape ELITE RDD with hoisting wheel & ladder bracket, T-bar, edge protector, 3 anchor slings, 3 carabiners, pulley, adjustable rope anchor, rescue rope grab & humidity-resistant storage case		

^{*}Specify length-standard lengths starting at 50' by 25' increments up to 300'. **Additional lengths available upon request.

Miller SafEscape ELITE RDD Basic Models

Model No.	Description
SE	Miller SafEscape ELITE RDD– Also includes anchor slings & rescue bag.
SEHW	Miller SafEscape ELITE RDD w/Hoisting Wheel– Also includes anchor slings & rescue bag.
SEHWLB	Miller SafEscape ELITE RDD w/Hoisting Wheel & Ladder Bracket— Also includes anchor slings, adjustable rope anchor & rescue bag.

Miller SafEscape ELITE RDD Accessories

Model No.	Description	
SE-LB	Ladder Bracket & Adapter	
SE-AS/4	Anchor Sling, 4'	
SE-AS/2.5	Anchor Sling, 2.5'	
SE-ARA	Adjustable Rope Anchor	
SE-RG	Rescue Rope Grab	
SE-EP	Edge Protector	
SE-TB	T-bar	
SE-P Pulley, Aluminum		
SE-BAG/M Wind Energy Kit Rescue Bag fits M lifeline		
SE-BAG/L Wind Energy Kit Rescue Bag fits L lifeline		
00127/200 Miller SafEscape Rescue Bag fits 50' to 200' lifeline		
00127/250 Miller SafEscape Rescue Bag fits 225' to 250' lifeline		
00127/300 Miller SafEscape Rescue Bag fits 275' to 300' lifeline		
17D-1	1" Carabiner	
8477H	Accessory Bag	
000109	Rescue Harness	
8185	Looped Cross-Arm Strap Anchorage Connector	
6490RYLS	Retrieval Yoke	

^{**} Lengths available from 50' to 600'

BMR 2000



Fall Protection

Guardian

Fall Arrestors

Structural Steel Fall Arrestors

Beamer 2000

- Fits beams 3-1/2" 14" wide, up to 1-1/4" thick
- For use on top or bottom beam flanges
- · Follows effortlessly above or behind
- · Lightweight (3.5 lbs.) and easy to carry
- · Lever-locking end piece makes size adjustment simple Beamer 12-1
- Fits beams 4-1/2" 12" wide, up to 1" thick
- For use on top or bottom beam flanges
- Durable and weatherproof
- Follows effortlessly above or behind workers
- · Lightweight (3 lbs.) and easy to carry Beamer 24-2
- Fits beams 12" 24" wide, up to 2-1/2" thick
- For use on top or bottom beam flanges
- · Durable and weatherproof
- · Slides easily above or behind worker
- Model for 4" thick flange available





BMR 24-4

Roofing Anchor Points

Roofing Anchor Points - Industrial

Weld on CB

- Temporary fall protection anchor for metal or steel
- · Easy weld-on installation
- · Lightweight and easy to carry
- Ideal fall protection for hard to tie-off places

- Permanent roof anchor for wood, metal, or concrete
- Facilitates up to 4 workers with a catenary line system
- Easy to install and use Weatherproof galvanized finish
- Fasteners provided (except for concrete applications)

CB Raised Anchors

- · Permanent roof anchor for wood, metal, or concrete
- · Facilitates up to 4 workers with a catenary line system
- · Easy to install and use
- Weatherproof galvanized finish
- · Lightweight and easy to carry

		Base Dimensions			
Part No.	Ht.	Concrete	Wood/Metal		
No.	(in)	(in)	(in)		
CB-1-W	1	N/A	2-1/2 x 2-1/2		
CB-1-B	1	6 x 6	6 x 6		
CB-6	6	12 x 12	16 x 16		
CB-9	9	12 x 12	16 x 16		
CB-12	12	12 x 1 2	16 x 16		
CB-18	18	12 x 12	16 x 16		

Rescue Systems

Pulleys

RSI 2" Rescue Pulley- Blue

Strongest 2" snatch-block type pulley available. Designed for ropes through 5/8" diameter. Ultra-lightweight 2" sheave fitted with Oilite® bushing or sealed bearing. Rotating high strength alloy aluminum sideplates allows placement anywhere on rope. Triangular rigging hole accepts up to three 13mm carabiners. Special design of this rigging hole prevents the user from having to "sideload" a carabiner when multiple carabiners are required. Can use RSI Big Hook as becket to

accomplish mechanical advantage hauling systems. 610012B - Sealed Bearing 610012 - Bushina

		9			
M.T.S. (lbf)	Wt. (oz)	Pitch Dia. (in)	Color	WLL (lbs)]
10,000	8	1.5	Blue	1,000	

Exceeds NFPA/ANSI/OSHA specifications.

RSI 3" Rescue Pulley - Orange

Highest strength to weight ratio of any pulley its size. Designed for ropes through 5/8" diameter. Ultra-lightweight 3" sheave fitted with Oilite® bushing or sealed bearing. Rotating high strength alloy aluminum sideplates allows placement anywhere on the rope. Triangular rigging hole accepts up to three 13mm carabiners. Special design of this rigging hole prevents the user from having to "side-load" a carabiner when multiple carabiners are required. Can use RSI Big Hook as becket to accomplish mechanical advantage hauling systems.

610013 - Bushing 610013B - Sealed Bearing

M.T.S.	Wt.	Pitch	Color	WLL
(lbf)	(oz)	Dia. (in)		(lbs)
10,000	14	2.3	Orange	1,000

Exceeds NFPA/ANSI/OSHA specifications.

RSI 4" Rescue Pulley - Gold

Lightest weight 4" snatch-block rescue pulley available. Other brand 4" heavy duty pulleys weigh over 200% more. Designed for ropes through 5/8" diameter. Ultra-Lightweight 4" sheave fitted with Oilite® bushing or sealed bearing. Rotating high strength alloy aluminum sideplates allows placement anywhere on rope. Triangular rigging hole accepts up to three 13 mm carabiners. Special design of this rigging hole prevents the user from having to "side-load" a carabiner when multiple

carabiners are required. Can use RSI Big Hook as becket to accomplish mechanical advantage hauling systems.

610014 - Bushing 610014B - Sealed Bearing

M.T.S. (lbf)	Wt. (oz)	Pitch Dia. (in)	Color	WLL (lbs)	
10,000	26	3.5	Gold	1,000	E

Exceeds NFPA/ANSI/OSHA specifications.

RSI 3" Double Sheave Pulley

Designed for use in two-rope hauling/lowering systems or in multiple pulley mechanical advantage systems. Features two 2-3/4" dia. x 7/8" wide

The only triple sheave pulley with rotating sideplates. Designed for ropes through 5/8" dia. Can be reeved at any point on the line. 5:1 triple over

sheaves separated by a high strength alloy aluminum plate. Main rigging point is constructed to accommodate three rescue carabiners. Anothe larger hole in the mid-section of the sideplates allows the unit to be used with the RS1 Big Hook Carabiner. Accepts through 5/8" lines.

610023B - Sealed Bearing 610023 - Bushing

RSI 4" Triple Sheave Pulley

0.00_0		9	0.00_0
M.T.S. (lbf)	Wt. (oz)	Color	WLL (lbs)
12.000	24	Red	1.200
12,000		itou	1,200

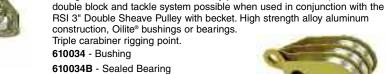
Exceeds NFPA/ANSI/OSHA

Crane & Train Rail - Round • Square • Angle Iron

RAIL MASTER

- Fits 30-175 lb. crane and train rail
- · Glides along effortlessly to follow worker
- · Easy to use and install
- Comes with sewn in SS60-HD Heavy Duty Lanyard
- Durable/weather roof zinc chromate finish Part No: RAIL





RSI 3" Double Sheave Pulley with becket. High strength alloy aluminum construction. Oilite® bushings or bearings. Triple carabiner rigging point.

610034B - Sealed Bearing

M.T.S.	Wt.	Pitch	Color	WLL
(lbf)	(oz)	Dia. (in)		(lbs)
15,000	56	3.5	Gold	1,500





Rescue Systems

General Purpose Carabiners

General **Purpose Steel** & Aluminum **Carabiners**







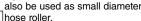
605160

Opening Wt. Dim. Color M.T.S WLL Manufacture (in) (in) (oz) General Purpose Steel Carabiners STUBAI 85 12mm, Offset 4-1/2 x 2-3/4 Silver 7,200* 720 605160 8 "D" Screwgate 605161 STUBAL 85 12mm, Offset 4-1/2 x 2-3/4 8 Black 7,200* 720 1 "D" Screwgate **General Purpose Aluminum Carabiners** 605251 4-1/8 x 2 5/8 2.5 Black 6,500* 650 0-P 11mm. "D" Screwgate

Edge Protection

RSI Edge Roller

611001 - The first single unit edge roller. Fully protects rope from corners and other points of friction. Uses aluminum rollers mounted on Oilite® bushings for extended wear. Does not groove or "seize-up" as do nylon rollers. Alloy aluminum construction, steel fittings. Lightweight and low profile. Four connecting points for easy attachment. Works best on 90 degree corners like window ledges and parapet walls. Can







RSI A.T.E.P. (All Terrain Edge Protector)

U.S. Patent # 4.869.466

An Innovation in rope protection. High stability flexible edge protector. Low profile (2.23 in.) allows litters to be easily raised over unit. Protects on all types of edges-90 degree building edges, boulders, cliffs, etc. It may be wrapped around steel beams and ends secured with carabiners. Expandable-two units can be linked together to form longer lengths. Standard 22" unit is longer than 3 connected units of

other manufacturers. Folds to a 7" cube. Sideplates manufactured of Alloy aluminum. Aluminum protective shafts prevent rope contact with abrasive

611010 - Std. A.T.E.R Dimensions: 22" x 6" x 2 1/4" Wt: 38 oz. **611011** - Long A.T.E.P Dimensions: 30" x 6" x 2 1/4" Wt: 50 oz

Pulleys

Trolley Pulley -Model for 3/8" Cable

This pulley is specially designed to roll on 3/8" steel cable. Not designed for mechanical advantage. When used as a trolley pulley, the special design prevents the pulley from flipping over and not riding on the sheave. All stainless steel construction with stainless sheave to last outdoors for Years. Wt: 30 oz. Oilite® bushing. M.T.S.: 10,000 lbf. W.L.L. 1,000#



T.R.A.M. Pulley

This Tandem Rigging Advanced Model pulley is designed for smooth rolling on traverse lines. The tandem design reduces the uneven movement of single roller pulleys. The design provides flexibility in attachment methods. Extremely high strength and built-in

redundancy. All stainless steel parts with sealed bearings.

Wt: 80 oz. M.T.S.: 10,000 lbf. W.L.L. 1,200#

610214B - T.R.A.M. 3/8" Pullev

Ascenders & Descenders

Rescue 8 Descender

601000 - Multiple use tool. Rappelling, belaying, and lowering device for fire and rescue. Unit is easily attached at any point on the line and is nearly impossible to mis-rig. Large safety ears prevent rope jams and knots. Extra large oval will pass knots in 1/2" dia. rope. Rig point will accommodate multiple carabiners and will allow locking gate of a rescue carabiner to pass through hole. Middle rigging hole allows user to rig unit without removing it from harness. Manufactured of

M.T.S (lbf)	. Wt. (oz)	Color
8,500	8.5	Charcoal

forged alloy aluminum and hard coated for extra long wear. Hard coat will not flake and cause premature wear in ropes.

Exceeds NFPA/ANSI/OSHA requirements for descenders.

B.W. Rappel Racks

This rack is the classic design unit developed in the 1960's. It is widely used as a personal rappel device. We offer 2 different lengths. A compact 10" frame which comes with 5 bars and is best for shorter drops, or the STANDARD 14" frame with 6 bars. Both units work best with single ropes 3/8" to 1/2" in diameter. The top bar on both racks is a special grooved bar to assist in guiding the rope near the center of the frame. Wt: 20 oz. 5 bar, 26 oz. 6 bar. Extra rack bars are available separately. Recommended for one person loads.

601022 - 5 Bar 90 Degree Twist **601023** - 5 Bar Standard

601024 - 6 Bar Standard **601025** - 6 Bar 90 Degree Twist

Gibbs Ascender

One of the strongest closed cam type rope-grab ascenders. Available with aluminum or stainless steel shell construction. Rounded-tooth cam design minimizes rope wear, yet holds on wet or icy ropes. 1/2" model attaches to ropes 5/16" to 1/2", 3/4" version accommodates ropes from 1/2" to 3/4". The spring-loaded type-always in locked position-is recommended for general rescue. The 1/2" stainless steel and heavy duty aluminum models have new shell indentations to increase rope holding strength.

Note: Industrial Rope Grabs are recommended for hauling systems and belay applications

Stock No.	Description	Cam Strength (lbf)	Wt. (oz)
602011		2,500	6
602012		2,500	6
602014	1/2", Heavy Duty Aluminum Spring Loaded	5,400	8
6b2013	3/4", Aluminum, Spring Loaded	5,000	14
602112	1/2", Stainless Steel, Spring Loaded Forged Cam	5,400	12
602113	3/4", Stainless Steel, Spring Loaded	5,650	15







^{*}Meets NFPA/ANSI/OSHA strength requirements for Snap-Hooks



Safety Netting

Personnel Safety Nets and Combo Debris Nets

Personnel Safety Nets

300 series nets utilize the most advanced materials and construction methods. Our exclusive CrimpLock™ construction is the most revolutionary advancement since the introduction of nylon. The design and construction means you get the most efficient, sturdy net available. The unique mesh design is double strand construction for optimal strength and durability. This unique design provides the highest degree of performance while maintaining a lightweight product that is as easy to install as it is strong. The personnel safety nets can be combined with a debris liner to provide both personnel and debris protection in one system. The nets are available for a wide range of applications which include:

- High Rise Construction
- Bridge Construction and Repair
- · Roof Replacement and Repair
- · Railroad Bridges
- · Shafts and Openings
- Steel and Concrete Construction
- · General Fall Protection
- · Prototype Tested to over 17,500 ft. lbs.



Combo Debris Nets

Combo Debris nets utilize the same advanced design and construction of our 300 series, combined with the industry's most proven debris mesh for optimum performance. Available with or without flaps, this patent pending design will provide broad wrap up protection.

	ersonnel & t Sizes (ft)
10 x 15	15 x 25
10 x 10	15 x 30
10 x 17	15 x 60
10 x 15	17 x 10
10 x 20	17 x 17
10 x 25	17 x 20
10 x 30	17 x 30
10 x 40	20 x 20
15 x 5	20 x 30
15 x 15	20 x 40
15 x 17	25 x 25
15 x 20	25 x 50



Specialty Nets

Nets and netting systems are available for special applications like heliports, mezzanines, and other areas with special requirements. System design assistance is available.

- Heliports
- Mezzanines
- Conveyor Guards
- Cargo Nets
- Barrier Nets
- Vertical Nets



Ceiling and Roof Containment

Leading Edge net systems provide protection from debris falling from ceiling areas during reconstruction or as an interim solution. The systems can provide protection for personnel, the public, and equipment below, as well as workers above the system. In most cases, costly down time or relocation of operations can be eliminated. Systems are custom designed

to meet your specific needs. Systems are available for all levels of containment including:

- Weather Protection
- Water Collection
- Sandblast
- Public Protection
- Dust Protection
- Debris Containment



Pit and Shaft **Protection**

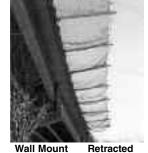
Available in a variety of nets for pit and shaft protection. If fall protection is required, the #300 series is the likely choice. The nets can be combined with a debris liner of any size opening to suit your needs. If it is just debris, our #20K and #20T are



the most Popular. Hook spacing in pit protection is most typically 2 foot, O.C. The 2' spacing allows you to keep the net closer to the sides and reduce scalloping. If field conditions require additional attachment, a screw pin shackle can be used in addition to snap hooks. There are several other mesh constructions that are well suited to this form of protection.

Perimeter Debris Net System

The most advanced design assuring easy installation and optimal performance. The system's mounting plate is designed to be used in a wide range of applications. Systems can be installed on existing structures, for addition of floors, or renovation. The system can be installed through windows or attached to side of a building or structure.



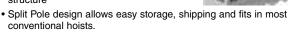
Column Adapter

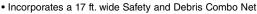
Floor Mount





- · Lightweight aluminum and steel construction - Reduces installation, moving, and transportation costs
- Fully engineered and tested system -Complies with ANSI A1011, OSHA & The Army Corps of Engineers
- · Specially designed mounting adapters -Assures the correct attachment to your structure





· Approximate weights of Hardware: Poles (21' long) - 38 lbs. ea. Mounting Brackets - 15 lbs. ea. Corner Mounting Brackets - 30 lbs. ea. Spreader Poles - 30 lbs. ea.



Safety Netting

Bridge Net System

Personnel and Debris Bridge Net Systems provide protection on virtually any bridge. Systems can easily attach to a structural point. The system can provide protection on either or both sides of the bridge and allows for installation of nets underneath when required. After installation is completed, the system can provide protection for both workers on the bridge, as well as workers, public, and property below. Advantages include: reduced labor costs, easy installation, maintenance, and cleaning.



Wire Rope Nets

Cable nets! No problem. We manufacture a full line of wire rope nets for applications such as:

- Pulp Mills
- Rock Control
- Debris Containment
- Zoos
- Government Projects

If you need assistance with rock slide areas or containment of a hazard, we have a system to meet your needs.



Overhead Protection

Spalling concrete and other loose materials can easily be controlled by installing a structural net with a liner, under bridge decks, or around the exterior of a building. Leading Edge offers a full line of attachment methods, material to assure cost effective installation, and optimal performance. Sag control manufacture/design and adjustable support

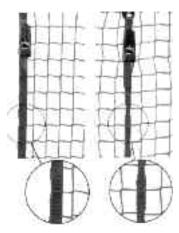


design allow use of product in low clearance areas. Double mesh net design allows for less sag and increased performance. Systems are available for both long term installation and projects that require temporary protection.

Rack Guard Systems

Our guard racks are designed to meet both your safety and access needs. No longer do you need to compromise your access to provide safety. A few benefits of our systems include:

- No secondary clips to attach to cables.
- Support system that can be removed and reinstalled in minutes.
- · No tools to remove or reinstall.
- Stand off supports that are flush with back of guard.
- Nets designed to fit, not too big or small.
- No gaps at splices between nets.
- No fray mesh designs.



Our Patent Pending Support System allows you to put up and take down your guards in a snap. Click it's up, Click it's down. Flexibility of size as well.

Engineered Solutions

Leading Edge provides custom designed systems to meet site specific needs. In many cases, systems provide several areas of protection, thus encompassing personnel, debris, and public protection in one package. Debris Net Systems often replace unsightly or restrictive sidewalk sheds and



platforms. Debris Net Systems generally assure an unrestricted flow of traffic and access to and around construction or restoration areas. In many cases, this allows facilities to continue to operate with little or no interruption. Special attachments, loading, and clearance are examples of areas where Leading Edge's manufacturing and design excel. Systems are available on rental or purchase basis.

Debris Nets

Debris Nets are manufactured from the most advanced materials in a wide range of meshes which range from 3-1/2" to solid. Debris Nets are available fire retarded, or with the exclusive Envirocoat treatment for superior performance and durability in sun, wind, and the demanding

environments. Debris Nets are used in a diversity of applications which include:

- Scaffolding Enclosures
- Facade Protection and Containment
- Ceiling and Roof Containment
- Sidewalk Overhead Protection
- Protection Over Roadways and Streets
- Separation of Trades
- Public Protection
- Adjacent Property Protection
- General Debris Protection

Cargo Nets

A full line of cargo nets are available. The nets are available in rope type construction as well as Webbing. Whether it is boot camp or just cargo, we have what your looking for.

