# PERSONAL FALL PROTECTION EQUIPMENT -THE ESSENTIALS





### **CONTENTS**

Introduction	4
MILLER EUROPE (EN)	5
Harnesses I Fall Arrest Harnesses	10 10
Self Retracting Lifeline    Self Retracting Lifelines   Self Retracting Lifeline Webbing	14 14 15
Lanyards   Lanyards   Edge-Tested Shock Absorbing Lanyards   Edge-Tested Shock Absorbing Manyard	20 20 21 22
Rope Fall Arresters	23
Connectors	25
Confined Space	26
Rescue & Evacuation	28
MILLER USA (ANSI)	29
Personal Fall Arrest System	30
Anchorage Connectors & System Kits	34
Body Wear	40
Connecting Devices	46
Miller Descent/Rescue And Confined Space	58
MILLER MB & HD RANGE	67
Body Wear & Connecting Devices	68
HONEYWELL ENGINEERED SOLUTIONS	72
Engineered Solutions	72
HONEYWELL TRAINING COURSES	79





# HONEYWELL MILLER

For over 75 years, Honeywell Miller products have been protecting workers at height in a wide range of industries and applications, including: construction, telecommunications, wind energy, transportation, general industry, utilities and more.

#### Honeywell Miller... Synonymous with Safety, Quality, Reliability and Innovation.

European legislation states that fall protection measures must be put in place by the employer of any person working at a height where a fall hazard exists. The regulation also requires that people involved in work at height are competent to do so or if in training, are supervised by a competent person. If it is not feasible to eliminate the hazard using a collective system then personal protective equipment (PPE) must be selected and used. It could be for restraint, work positioning, rescue or fall arrest purposes. This system consists of a full body harness, an intermediate attachment and an anchorage connector. The systems can only be used if a suitable anchorage point is located close to the work area.

Honeywell Miller products are designed and tested by full-time, qualified engineers and technicians at a state-of-the-art, in-house testing facility, which not only verifies that specific standards are achieved but often tests beyond the

standards to assure the ultimate in safety performance. In addition, all Honeywell Miller products are third-party tested by independent sources to further certify compliance. Honeywell Industrial Safety has successfully earned and continues to retain ISO 9001 certification at its manufacturing facilities. Honeywell Miller has undergone the most stringent requirements for design and development, production and service, proof of our unwavering and ongoing commitment to consistent quality products and services.

Honeywell Miller products are developed in collaboration with workers to fit to their need to provide innovative solutions.

With our goal of being your comprehensive problem-solving provider, we are committed to meet your fall protection needs with innovative safety solutions mixing products and services such as training, hazards identification and tailor made products.

With sales offices and training centres throughout the world, Honeywell Miller is supported at a local level by our highly trained field sales force and dedicated technical support and customer service resources assuring reliable solutions to the most complex and technical requests.







# FALL PROTECTION STANDARDS

EN 341	Descenders
EN 353-1	Guided Type Fall Arresters Rigid Anchorage Line and Rails
EN 353-2	Guided Type Fall Arresters Flexible Anchorage Line
EN 354	Lanyards
EN 355	Shock Absorbers
EN 358	Work Positioning Systems
EN 360	Retractable Type Fall Arresters
EN 361	Full Body Harness
EN 362	Connectors
EN 363	Fall Arrest Systems
EN 795(b)	Anchorage Devices – Class B
EN 813	Sit Harness
EN 12841/C	Rope Access Systems: Back-up devices

HARNESS TYPE	EUROPEAN STANDARD	WORK RESTRAINT	WORK POSITIONING	FALL ARREST	WORK IN SUSPENSION	TO RESCUE
Work Positioning Belt	EN 358	ok	ok	-	-	-
Full Body Harness	EN 361	ok	-	ok	-	-
Full Body Harness	EN 361/EN 358	ok	ok	ok	-	ok
Multifunction Full Body Harness	EN 358/ EN 813 EN 361	ok	ok	ok	ok	ok

#### **WORKING AT HEIGHT CATEGORIES**

Your working at height environment reflects the equipment that must be used. The categories summarised below have been defined by European Standards and are used as the base for work at height operations.



#### (A) FALL ARREST

Equipment used to stop falling worker in the event of a fall from height.

#### Typical Fall Arrest System consists of:

- Anchor devices.
- Full body harness.
- Connecting devices.



#### **WORK IN SUSPENSION\***

Designed to lower and support a worker, allowing a hands free work environment.

#### Typical Suspension System consists of:

- · Anchor devices.
- Full body harness.
- 2 ropes: 1 equipped with a descender, 1 equipped with a rope grab.



#### **WORK POSITIONING\***

Equipment holding an operator in their place of work, allowing a hands free work environment.

#### **Typical Work Positioning System** consists of

- · Anchor devices.
- Full body harness with a positioning belt.
- · Connecting devices (work-positioning lanyard).



#### **WORK RESTRAINT**

Equipment used to prevent the workers from approaching a position from which they can fall.

#### Typical Work Restraint System consists of:

- · Anchor devices.
- Work restraint belt or full body harness.
- Connecting devices (restraint lanyard).



#### RESCUE

Rescue & Evacuation of an injured high access worker is mandatory consideration for work at height operations.

#### Typical Rescue System consists of:

Rescue & evacuation device.



















WIND ENERGY

ROPE ACCESS

CONFINED SPACE

CONSTRUCTION TELECOMMUNICATION **ELECTRICITY** 

<sup>\*</sup> The positioning and suspension systems are not designed for Fall Arrest. A back-up Fall Arrest system must be used.



#### THE ABC'S

A simple way of remembering the core components of a fall arrest system is the "ABC" of Fall Arrest. Quite simply, without one part, the system does not work.

#### A. ANCHOR DEVICES

Used to join the connecting device (work restraint, fall arrester) to the anchorage, commonly referred to as the "tie-off point" (I-beam, scaffolding or other structural point).

Anchor devices may be one of the 2 types:

- Permanent anchor devices (e.g. horizontal cable lifeline, horizontal rail systems...).
- Temporary anchor devices (e.g. steel strops, scaffold hooks, webbing anchorage slings, beam grips and dead-weight anchor...).

#### **B.** FULL BODY HARNESS

Used to hold a worker during & after a fall.

- Full body harness must be worn for Fall Arrest situations.
- Work restraint belts cannot be used for Fall Arrest.

#### C. CONNECTING DEVICES

Used as intermediate attachment to connect the worker's harness to the anchor device (e.g. shock absorbing lanyard, self retracting lifeline, fall limiter, rope grab etc.).

Connecting devices may be one of the 2 types:

- Fall Restraint: a fall restraint system prevents workers from reaching a hazard
- Fall Arrest: a fall arrest system allows workers to reach a hazard and then protects them if they should fall.



#### LIFE CYCLE OF FALL PROTECTION EQUIPMENT

Please consult for detailed information the dedicated product user manual.

 A. For our products made of mainly textiles (harnesses, lanyards, SRL with webbing¹)

The maximum life cycle is ten years from the date of production except in cases where environmental factors<sup>2</sup> and special conditions of use<sup>3</sup> for fall protection equipment apply. An annual inspection done by a competent person<sup>4</sup> (trained for PPE inspections) is mandatory.

B. For our products made up mainly of metal (cable srl, karabiners, tripod)

We do not indicate a life cycle for our products made up mainly of metal. It is unlimited, under condition the product undergoes regular maintenance during the yearly inspection carried out by a competent person. In case of doubt or damage, the device has to be sent for expert inspection/repair at a local Honeywell Service Centre or the factory. For products not subject to maintenance (non workable), the life cycle is a maximum of ten years<sup>2.3</sup>.

- 1. Except for Miller Falcon 6m webbing and Scorpion Edge: Replacement of the webbing kit is every 5 years from date of manufacture.
- Contact with chemical products, poor storage conditions, exposure to strong sources of heat (> 50°C), to ultraviolet (UV) radiation, harsh abrasion, etc...
- 3. Product deterioration, activation due to a fall, mechanical fault, premature wearing, intensity of use. In all cases, our products must be inspected once a year.
- 4. A person who has successfully completed an inspection course and who currently holds a valid inspection certificate.

In all cases, our products must be checked once a year.





# GETTING TO GRIPS WITH THE WORK HAZARDS!

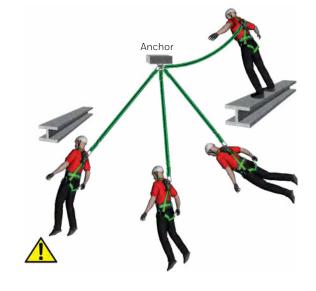
There are three fall factors in fall arrest that relate to the position of the anchorage point. They are used to determine the potential fall distance of a worker and so ensure that there is no risk of contact with the lower level in the event of a fall. When possible, the worker should always use an anchorage point at shoulder level or above (Factor 1 or 0). A higher anchorage point will reduce the fall distance and therefore significantly reduce the risk of injury on the body due to the impact forces of a fall.

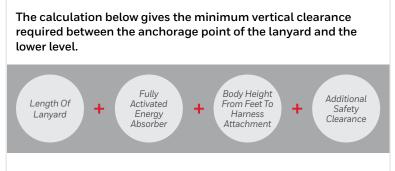
#### The Pendulum Effect

When the lifeline is not anchored vertically over the work place, the worker will pendulum in the event of a fall and may be injured by hitting the ground or an obstacle to the side. If it is not possible to use an anchorage point close to the work station, two anchorage points either side of the worker can be used to prevent any swing.

#### **Fall Clearance Calculations**

This is the distance a person will fall when connected to a fall arrest attachment point. It is related to the Fall Factors (see Fall factor). Many situations can develop and it is ultimately the responsibility of the worker to ensure that there is a suitable fall clearance available. In order to calculate this, the worker must know the distances specified below, and it is also strongly recommended they attend a Honeywell Miller Fall Protection Training Course.





#### Examples:

Calculations using the following length lanyards are as follows:

- 2m lanyard
   2m (lanyard length) + 1.75m (energy absorber) + 2m (body height) + 1m safety = 6.75m
- 1.5m lanyard
   1.5m (lanyard length) + 1.5m (energy absorber) + 2m (body height) + 1m safety = 6m

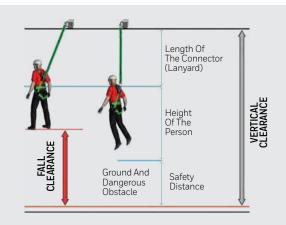




#### FALL FACTOR

0

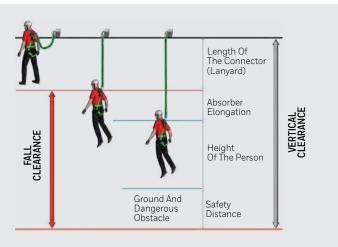
Anchorage is overhead and the lanyard is taut between the anchorage point and the worker. The fall clearance is reduced as shown.



#### FALL FACTOR

1

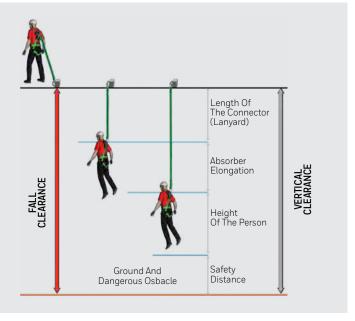
Anchor point is level or above the harness attachment point allowing a fall equivalent to the length of the lanyard before the energy absorber deploys to arrest the fall.



#### FALL FACTOR

2

Anchor point is at or below the feet of the worker allowing a fall equivalent to twice the length of the lanyard before the energy absorber deploys to arrest the fall.



#### IF IN DOUBT: FALL LIMITERS REDUCE FALL CLEARANCE < 3M

A fall limiter or self-retracting lifeline will stop a fall in centimetres and is therefore the ideal solution for low-level work where a shock-absorbing lanyard is unable to stop the worker from hitting an obstacle below.







# **HONEYWELL MILLER HARNESS FEATURES**

#### #1

1-point harness: fitted with a dorsal fall arrest attachment (usually a D-ring)

### #2

2-point harness: fitted with a dorsal (usually a D-ring) and a sternal fall arrest attachment (either via 2 web loops or a single

#### **HARNESS TYPES**

Work positioning harness: fitted with either 1 or 2 fall arrest attachments as described above, and a work positioning belt (with side Ds)

#### #4

Suspension harness: fitted with either 1 or 2 fall arrest attachments and a work positioning belt as described above, and a ventral point for suspension.

#### #5

Belly point harness: fitted with either 1 or 2 fall arrest attachments and a work positioning belt as described above, and a belly point only valid to be used as a fall arrest in connection with a shuttle certified EN353-1.

#### **ATTACHMENT POINT TYPES**

Fall arrest attachment point (can be dorsal or dorsal+sternal)



D-ring)

Work positioning attachment point (side Ds) – not suitable for fall arrest



Suspension attachment point (ventral point) – not suitable for fall arrest



#### **ADJUSTMENT BUCKLES**

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



Quick-Connect Buckle For belt, waist and leg straps interlock for quick easy donning and feature a dual-tab release mechanism to prevent accidental opening.



#### Cam Buckle

The locking tabs of the cam buckle trap the webbing to prevent unintentional slippage. Lift the locking tab for easy, one-hand adjustment/release. Promotes proper snug fit, will not slip or misadjust.



#### **WEBBING**

**DuraFlex® Webbing** Elastomer webbing specially formulated to stretch with the user's movements so there is no bunching or binding.



**Water-Repellent Webbing** For longer life-span of the product. Used for H-Design range.





# FALL ARREST HARNESSES

Fall Protection is about protecting people who are working at height. Falls from height are the second most common cause of accidents in the work place and cost significant amounts every year to employers. The purpose of a fall arrest system is to safely stop a fall from height and to hold the worker until he can be recovered. A full body harness that conforms to EN 361 is the form of body wear used in fall arrest applications.

### 



A new feeling of safety at height - the H-Design harness is available with either DuraFlex stretch webbing or standard webbing.



Well Positioned **Buckles** for an accurate adjustment



Horizontal leg straps for better comfort at work



Protected Abels for improved traceability





Certified at 140kg

#### **BENEFITS:**

- Freedom of movement.
- · Greater comfort.
- Easy to put on and quick to connect.
- More safety: avoids the worker to tilt sideways.
- Easy inspection.
- Better traceability.
- Greater durability.

#### **FEATURES:**

- Exclusive and innovative harness structure in 'H':
  - Ergonomically placed webbing.
  - Horizontal leg straps.
- Unique top-down front adjustment.
- Accessible back D-ring due to its bended position.
- Unique patented sternal D-ring with automatic centering in case of a fall.
- Highly visible stitches.
- 10 year inspection chart
- Protected webbing: water repellent and stain free.



	40-50	50-60	60-70	70-80	80-90	90-100	100-110	110-120	120-130	130-140
155-160			C	n reques	t					
160-165										
165-170			Size 1							
170-175										
175-180										
180-185			Size 2							
185-190										
190-195			Size 3							
195-200			Size 3				(	n reques	st	

#### **SIZE SELECTION GUIDE**

#### onforms to EN 361

CONTONNIS TO EN 36	)1					
REF.	NAME	SHOULDER WEBBING	ATTACHMENT POINTS	BUCKLES	FRONT ATTACHMENT	SIZE
1032863		Duraflex Stretch	2	Mating	-	1
1032868	Miller H-Design®	Duraflex Stretch	2	Mating	1 D-Ring	2
1032869		Duraflex Stretch	2	Mating	1 D-Ring	3





A work positioning system is designed to hold a worker in a secure, hands-free working position and is used in conjunction with a fall protection system. A fall can occur while working and this is why a work positioning system is a combination of the fall arrest harnesses that complies with EN 361 together with a work positioning system to EN 358.



2-point + work positioning - Dorsal D-ring front attachment loops and work positioning belt.











Certified at 140kg

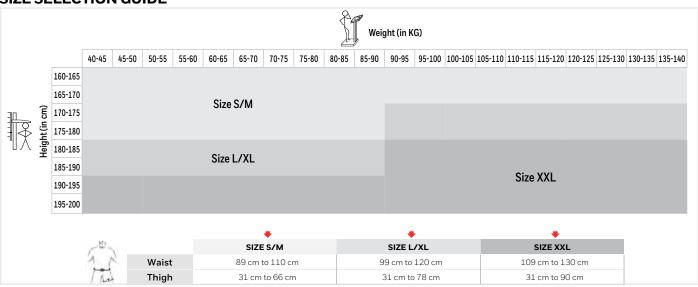
#### **BENEFITS:**

- Smoother movement when ascending or descending.
- Rotating PivotLink connections at waist level.
- Full freedom of movement.
- Integrated accessories system.
- Rotating work positioning belt to free hands.

#### **FEATURES:**

- Elasticated DuraFlex webbing\*
- ErgoArmor<sup>™</sup> padded back shield.
- Quick fixing Cam buckles for easy fit.
- Quick connect buckles at chest & leg.
- Web finials to store spare webbing.
- Self-contained label pack

#### SIZE SELECTION GUIDE



#### Conforms to EN 361 and EN 358

REF.	DESCRIPTION	SIZE
1014251	Duraflex <sup>®</sup> Webbing	S/M
1014252	Duraflex* Webbing	L/XL



# FALL ARREST / WORK POSITIONING

#### MILLER H-DESIGN® BODYFIT HARNESS





#### **BENEFITS:**

- Perfect fit to all body shapes.
- Greater comfort.
- Freedom of movement.
- Easy to put on and quick to
- More safety: avoids the worker to tilt sideways.
- Easy inspection.
- Better traceability.
- Greater durability.

#### **FEATURES:**

- Rotating and unique adjustable belt.
- Belt with breathable padding
- Exclusive and innovative
  - Ergonomically placed
- Horizontal leg straps.
- Unique top-down front
- D-ring with automatic centering in case of a fall.
- Highly visible stitches.
- Front and back fall
- 10 year inspection chart &
- Protected webbing: water

#### **SIZE SELECTION GUIDE**



Conforms to EN 361 and EN 358

REF.	NAME	SHOULDER WEBBING	ATTACHMENT POINTS	BUCKLES	FRONT ATTACHMENT	SIZE
1033541		DuraFlex Stretch	2	Automatic	1 D-ring	2
1033542	Miller H-Design*	DuraFlex Stretch	2	Automatic	1 D-ring	3
1032868	Bodyfit	DuraFlex	2	Rapco	2 D-ring	2
1032869		DuraFlex	2	Rapco	2 D-ring	3







### MILLER SELF RETRACTING LIFELINES FEATURES

#### **Swivel**

Prevent damage to the lifeline from twisting during use and binding inside of the unit.



#### Webbing

Lightweight and high abrasion resistance.



#### **Fall Indicator**

Highly visible fall indicator at the snap hook identifies when the unit needs to be removed from service.



#### **Edge Tested**

Innovative technology for working on



#### **Energy Absorber**

Reduces the fall arrest forces in case of a all, located on the lifeline.



#### **Scaff Hook**

Large opening karabiners allow connecting the self retracting swivel integrated lifeline to a large range of anchorage point.



#### Cable Galvanised Or Stainless Steel

Cable and karabiners are treated to prevent from corrosion and rusting and extend service life.





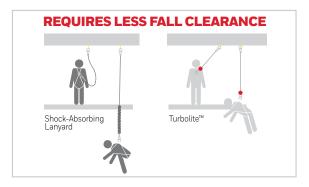
# ELF RETRACTING IFELINES WEBBING

Self-retracting lifelines are mechanical devices with quick-activating braking system that limits a free fall to centimetres, with reduced fall arrest forces making this especially suitable for low-space fall clearance. The automatic retractable cable allows freedom of movement for workers who need to move relatively quickly up and down on a worksite. Honeywell Miller offers the most comprehensive range of fall arrest blocks including robust lightweight composite blocks, heavy-duty fall arrest and rescue models with metallic housing and choice of lifeline materials: webbing, stainless steel, and galvanised steel with lengths available from 2m to 30m. Also Honeywell Miller has a complete range of edge-tested solutions including lanyards, webbing SRLs and cable SRLs, that deliver greater safety in case of horizontal application where the risk of fall over an edge is high.



Best alternative to shock-absorbing lanyards used in Factor 2. 2m - Self retracting webbing lifeline.





#### **BENEFITS:**

- Usable in fall factor 2
- Compact & lightweight.
- Low space clearance of 1.80m compared to 2.50m for a shock-absorbing lanyard (fall factor 0).
- Adapted to all situations when working with low
- Can be used in Fall Factor 2 (below the back D-ring and not lower than foot level).
- Can be used both ways
- Rated for up to a 136kg in fall factor 0; and a 100kg user in fall factor 1 and 2.
- Abrasion resistance and long service life.
- No annual factory

#### **FEATURES:**

- Quick activating patent pending braking system.
- Provides 2m working capacity lifeline.
- Engineered webbing (vectran/polyester webbing) for greater abrasion resistance and long service
- Built-in swivel prevents lifeline from twisting during
- High-strength, impactresistant nylon housing for

Conforms to EN 360

COITIOITIS LO LIV	300	
REF.	WEBBING SIDE	BLOCK SIDE
1018015	Twistlock Steel	Twistlock Steel
1018013	Scaff Hook Alu op 65mm	Twistlock Steel
1017900	Snap Hook Alu op 21mm	Twistlock Alu op 21mm

<sup>\*</sup> The CE standard requires inspection by a trained competent person, following the Miller Repair Guide.



15



#### MILLER TURBOLITE™ EDGE SELF-RETRACTING LIFELINE

The Miller TurboLite Edge is a lightweight and highly durable 2m edge-tested web self-retracting lifeline. It is certified at 140kgs in FF0, FF1 and FF2 and approved for foot level attachment.







#### **BENEFITS:**

- Increased freedom of movement.
- Comfort at work
- Reduced fall arrest distance, especially important when little vertical clearance is available.

#### **FEATURES:**

- A twist-lock top karabiner for easy attachment to harness back D-ring.
- A swivel between housing and absorber to follow movements in all directions.
- A unique power spring mechanism inside housing for smooth sliding of lifeline
- Integrated fall indicator.
- Unique aluminium karabiner with integrated swivel avoids twist effect of the webbing which optimises webbing retractability (less risk of blocking), without adding length (no separate swivel).
- Very quick locking mechanism.

REF	LENGTH	ANCHORAGE CONNECTION	HARNESS CONNECTION
1033464	2m	Scaffold Hook Alu with Integrated Swivel	Twistlock Alu
1033465	2m	Twistlock Alu with Integrated Swivel	Twistlock Alu
1033466	2m	Scaffold Hook Alu with Integrated Swivel	Twistlock Alu

Certified to the requirements of EN 360: 2002 - VG11.085 (FF2) + VG11.060 (Edge tested) 140kg certified (VG11.062)



#### FALCON™ BLOCK (\*\*) (\*\*)



6m-Self retracting webbing lifeline

#### **BENEFITS:**

- Nylon casing.
- Best length/weight ratio on the market (6m unit weighs only 1.5kg).

#### **FEATURES:**

- Lightest, most compact 6m web self-retracting lifeline.
- Quick activating braking mechanism.
- Webbing provides extremely high abrasion resistance (tested > 20,000 cycles).
- Offers Xtreme durability with a strong, composite housing.
- Swivel at the top of unit to prevent lifeline from twisting during use.

#### Conforms to EN 360

REF.	ANCHORAGE CONNECTION	HARNESS CONNECTION
1016793	Swivel	-
1016794	Scaff Hook Alu (65mm)	Screwgate Alu
1016796	Screwgate Alu	Snap Hook Alu (22mm)

An annual inspection by a Miller Service Point (MSP) or the factory is mandatory. At the time of examination, the device must be opened and subjected to a complete inspection.

The webbing must be replaced every 5 years, just as for the other webbing retractable devices.



#### FALCON™ BLOCK WITH FALL INDICATOR

#### **BENEFITS:**

- In case of a fall, the fall indictaor deploys and the warning label appears.
- No annual re-certification.

#### **FEATURES:**

- Quick activation.
- Fall indicator.
- Visual, tactile and functional inspection.

REF.	ANCHORAGE CONNECTION	HARNESS CONNECTION
1031140	Twistlock Alu	Twistlock Alu

 $Self\ retracting\ lifeline\ that\ has\ arrested\ a\ person's\ fall\ from\ height\ must\ not\ be\ used\ again\ until\ a\ competent\ person\ has$ agreed on its further use. The product must be returned to the manufacturer or a Miller Service Point (MSP) together with the instruction manual (including the annual inspection data) for inspection and recertification. Check sheet has been developed and is available to all persons responsible for periodic examination. However the webbing must be replaced every 5 years, just as for the other webbing retractable devises.







The safest, most robust and comprehensive range of composite retractable lifelines on the market. 6.2m to 20m - Cable self-retracting lifeline.



- Increase durability.
- Stops the fall within a few centimetres for a quick and safe rescue.
- Lightweight, robust composite unit.
- Easy-to-install.
- No annual factory re-certification required.
- · Lowers cost of ownership and increases productivity.

#### **FEATURES:**

- Easy adjustment
- Quick-activating braking mechanism.
- Highly visible fall indicator.
- Screwgate karabiner.
- Dual stainless steel swivels (unit top and snaphook).
- Corrosion-resistant stainless steel and aluminium internal components.
- High impact resistant nylon housing.
- Ergonomically designed moulded handle (15 & 20m models).





#### Conforms to EN 360

18

	CABLE		CONNECTO	RS				
REF.	LENGTH	CABLE	ТОР		воттом	SNAP HOOK WITH	WEIGHT (KG)	DIMENSIONS (MM)
	(M)		KARABINER	SWIVEL	SWIVEL	FALL INDICATOR		
1011728	6.2	Galvanised	•	•	•	Steel	4	255 X 213 X 101
1011742	10	Galvanised	•	•	•	Steel	5	255 X 213 X 101
1011746	15	Galvanised	•	•	•	Steel	6.7	342 X 246 X 101
1011750	20	Galvanised	•	•	•	Steel	7.6	342 X 246 X 101
1011729	6.2	Stainless Steel	•	•	•	Steel	4	255 X 213 X 101
1011743	10	Stainless Steel	•	•	•	Steel	5	255 X 213 X 101
1011747	15	Stainless Steel	•	•	•	Steel	6.7	342 X 246 X 101
1011751	20	Stainless Steel	•	•	•	Steel	7.6	342 X 246 X 101

www.honeywellsafety.com



#### **FALCON™ EDGE**

Edge-tested self-retracting lifeline with optimal safety for all situations when working at height

#### **BENEFITS:**

- Protects in all work situations (horizontal, vertical, mounted overhead, anchored at foot level and work near edges).
- Quick arrest and short fall distance (fall distance < 1.40m, tested at 136kg).
- Available in 6.2m, 9m working lenghts; 15m and 18m will be available in 2018
- Increased durability, simple maintenance and extended service
- Increased lifetime and lower cost of ownership:
  - Quick and easy to maintain (no annual maintenance)
  - After 10 years of use: only cable and shock absorber replacement

#### **FEATURES:**

- Designed for edge applications with an edge radius of ≥ 0.5 mm
- Meets the most stringent safety standards, including EN360 Type B, VG11 (Rev 08)
- Certified to 2014 latest test requirements (VG11 edge-tested): Edge configuration tested to max weight - 136kg
- Integral shock absorber connected to the worker to increase safety
- Unique patented shock absorber pack offering longer lifetime versus textile, resistant to UV and humidity (IP67), requires no annual inspection
- Highly visible fall indicator on ergonomically designed robust handle
- Corrosion-resistant internal components
- Dual swivels increase mobility and minimize lifeline from twisting



Conforms to EN360 Type B, VG11 (Rev 08)

			CONNECTORS				
REF.	CABLE LENGTH	CABLE	ТОР		воттом	WEIGHT (KG)	DIMENSIONS (MM)
	(M)		KARABINER	SWIVEL	SNAP HOOK WITH FALL INDICATOR		
1034052	6.2	Galvanised Steel	•	•	Galvanised Steel	4.5	870 x 213 x 101
1034053	9	Galvanised Steel	•	•	Galvanised Steel	4.8	870 x 213 x 101
1034054	15	Galvanised Steel	•	•	Galvanised Steel	7.5	960 x 246 x 101
1034055	18	Galvanised Steel	•	•	Galvanised Steel	7.8	960 x 246 x 101
1034056	6.2	Stainless Steel	•	•	Stainless Steel	4.5	870 x 213 x 101
1034057	9	Stainless Steel	•	•	Stainless Steel	4.8	870 x 213 x 101
1034058	15	Stainless Steel	•	•	Stainless Steel	7.5	960 x 246 x 101
1034059	18	Stainless Steel	•	•	Stainless Steel	7.8	960 x 246 x 101

The CE standard requires inspection by a trained competent person, following the Miller Repair Guide.







A lanyard is used to connect the workers harness to the anchorage point as an intermediate attachment when working at height. A connecting lanyard may be one of the 3 types: **Fall Arrest, Fall Restraint,** or **Work Positioning**.



#### **Energy Shock Absorber**

Featuring a built-in absorber which limits the fall arrest force in a fall situation to 6 kN.



#### **Elasticated Manyard®**

Light and stretchable, it moves with the worker and reduces tripping or snagging hazards.



#### **Edge Tested**

Innovative technology for working on edges, features webbing with special heat and cut resistance.



#### Adjustable

Fall arrest, restraint or work positioning lanyard can be easily adjusted to the length needed to work safely and comfortably.



#### Connectors

Connectors are available to attach to different anchorage points.





Edge resistant lanyards: unique solutions to solve the technical problem posed by the breaking of fall protection equipment on edges! To prevent the risk of failure on an edge during work at height, requires a two-fold solution: fall arrest equipment has been developed with resistance to failure on edges whilst also absorbing the fall arrest forces.



### EDGE-TESTED SHOCK ABSORBING LANYARDS

#### MILLER EDGE-TESTED KERNMANTEL LANYARDS

Kernmantel shock absorbing lanyards



#### **BENEFITS:**

- Edge tested kernmantel ropes.
- Safe work on edges.
- Ahrasion resistant
- Easy identifiable from a distance.
- Easy pre-use safety check.
- Fitting all workers needs (different lengths and connectors).

#### **FEATURES:**

- Edge tested products (compliant to VG11 PPE 11.074).
- High quality kernmantel rope.
- Highly visible rope (Light green).
- Multicolor stitches assist inspection
- Wide range of products.blocking), without adding length (no separate swipel)
- Very quick locking mechanism.





#### Conforms to EN 355

REF.	LENGTH	LANYARD TYPE	HARNESS CONNECTOR	ANCHORAGE CONNECTOR	
1032376	1.5m	Single	Twistlock Alu Op 18mm	Twistlock Alu Op 60mm	P
1032390	1m	Twin	Twistlock Alu Op 18mm	Twistlock Alu Op 60mm	P
1032394	1.5m	Twin	Twistlock Alu Op 18mm	Twistlock Alu Op 60mm	



To prevent the risk of a fall, it is made of stretch webbing and comes with a variety of connectors. With a maximum of 2m length, it includes an integrated shock absorber to dissipate the forces on the body in case of a fall. Light and stretchable, Manyard® moves with you.



# **EDGE-TESTED** ABSORBING MANYARD®

#### **EDGE-TESTED STRETCHABLE SHOCK-ABSORBING MANYARDS**





#### **BENEFITS:**

• Mechanical properties resistant against cutting and shearing.

#### **FEATURES:**

- Patented core-yarn technology.
- Identifiable green tubular webbing with a black stripe or with a black shock-absorber.
- Wrapped filament combining two types of thread: one shock absorbent and one abrasion resistant.

Conforms to EN 355

REF.	LENGTH	LANYARD TYPE	HARNESS CONNECTOR	ANCHORAGE CONNECTOR	
1028520	1.5m	Twin	Twistlock Steel Op 17mm	Scaffhook Steel Op 55mm	0
1028523	1.5m	Twin	Twistlock Alu Op 16mm	Scaffhook Alu Op 63mm	



### ROPE FALL ARRESTERS

Light, industry-proven, stainless steel automatic or manual fall arresters, rope grabs prevent workers from falling during ascent or descent for both vertical and horizontal applications. Particularly useful on sloping roofs where retractable lifelines may react too slowly. In the event of a fall or slip, they lock onto the rope, arresting the fall immediately.

Honeywell Miller Rope Grabs allow workers to move up and down vertical lifelines easily. Designed for use with Honeywell Miller synthetic rope lifelines secured to an anchorage independent of the worker's platform.

These models offer complete hands-free operation for increased productivity. Corrosion-resistant stainless-steel construction provides increased durability and dependable.

#### **RG500 REMOVEABLE ROPE GRAB**

Rope grab for vertical, horizontal and sloping applications that requires edge protection in Utilities sector.





RG500 Auto/ Manual Rope Grab, Ø12 mm with Lanyard Extension 0.3 M



RG500 Auto/ Manual Rope Grab, Ø12 mm without Lanyard Extension

#### **BENEFITS:**

- Edge tested
- Long-lasting product in standard conditions
- Provides mobility and comfort around the rope
- Permanent locking system to provide immediate blocking
- Suitable for rescue applications
- Slides smoothly on the rope (vertical)
- No risk of the product falling down on the rope during installation
- Can be used as rope adjustment device (EN 12841/A:2006)

#### **FEATURES:**

- Ergonomic
- Compliant to EN 353-2:2002
- Maximum user weight of 140kg
- Can be used as anchorage device (EN 795/B:2012) 18 kN
- Rope diameter 12mm
- Resistant to shocks and dust
- Can be removed from the rope
- Can keep the device on the harness during installation

Conforms to EN 353-2

CONTONINS TO EIV	566 2			
REF.	MODEL	FOR Ø ROPE	EXTENSION	COUNTERWEIGHT AND KARABINER
1035951	Auto/Manual Rope Grab	12mm	-	No
1035950	Auto/Manual Rope Grab	12mm	0.3m	No
1035949	Auto/Manual Rope Grab	12mm	1m	No
1035948	Anchorage Line	12mm	5m	Yes
1035947	Anchorage Line	12mm	10m	Yes
1035946	Anchorage Line	12mm	15m	Yes
1035945	Anchorage Line	12mm	20m	Yes
1035944	Anchorage Line	12mm	25m	Yes
1035943	Anchorage Line	12mm	30m	Yes
1035942	Anchorage Line	12mm	40m	Yes
1035941	Anchorage Line	12mm	50m	Yes
1035940	Rope Only	12mm	-	No
1035939	Rope x M	12mm	-	No

Recommended for use with Miller ropes only.



#### **RG300 NON-REMOVEABLE ROPE GRAB**

Suitable for vertical, horizontal and sloping applications in construction industry.







#### **BENEFITS:**

- Easy, ready-to-use
- Edge tested
- Long-lasting product in standard conditions
- Provides mobility and comfort around the rope

#### **FEATURES:**

- Ergonomic
- Compliant to EN 353-2:2002
- Maximum user weight of 140kg
- Rope grab pre-installed
- Rope diameter 11mm
- Resistant to shocks and dust

REF.	ROPE
RG300 Non-Removable	
1035931	RG300 Automatic Rope Grab, Ø11mm with Anchorage 5M
1035932	RG300 Automatic Rope Grab, Ø11mm with Anchorage 10M
1035933	RG300 Automatic Rope Grab, Ø11mm with Anchorage 15M
1035934	RG300 Automatic Rope Grab, Ø11mm with Anchorage 20M
1035935	RG300 Automatic Rope Grab, Ø11mm with Anchorage 25M
1035936	RG300 Automatic Rope Grab, Ø11mm with Anchorage 30M
1035937	RG300 Automatic Rope Grab, Ø11mm with Anchorage 40M
1035938	RG300 Automatic Rope Grab, Ø11mm with Anchorage 50M



# **CONNECTORS**

#### **SCREW GATE KARABINERS**



- Material: Aluminum
- Opening: 17mm
- Resistance: 23kN
- Dimension: 111 x 60mm
- Weight: 80g
- Multi-purpose karabiner
- Material: Steel
- Opening: 17mm
- Resistance: 25kN
- Dimension: 104 x 58mm
- Weight: 165g
- Multi-purpose karabiner

#### TWIST LOCK KARABINERS



- Material: Steel
- Opening: 17mm
- Resistance: 25kN
- Dimension: 104 x 58mm
- Weight: 172g
- Material: Aluminum
- Opening: 16mm
- Resistance: 28kN
- Dimension: 107 x 61mm
- Weight: 75g
- Shape facilitates belay technique

#### **DOUBLE ACTION KARABINERS AND HOOKS**



- Material: Aluminum
- Opening: 60mm
- Resistance: 23kN
- Dimension: 240 x 113mm
- · Weight: 244g
- Material: Aluminum
- Opening: 63mm
- Resistance: 22kN
- Dimension: 255 x 120mm
- Weight: 470g

#### TRIPLE ACTION KARABINERS



- Material: Aluminum
- Opening: 22mm
- Resistance: 22kN
- Dimension: 117 x 77mm
- · Weight: 100g
- Pear-shaped for easier belay
- Wide opening for several ropes

REF.	NAME	MATERIAL	OPENING	RESISTANCE	DIMENSION	WEIGHT	CONFORMS TO STANDARD
1009276	CS20 ALU	Aluminium	17mm	23kN	111 x 60mm	80g	EN 362 Class B
1018960	CS20	Steel	17mm	25 kN	104 x 58 mm	165g	EN 362 Class B
1018963	CS20	Steel	17mm	25kN	104 x 58mm	172g	EN 362 Class B
1018968	ZICRAL	Aluminium	16mm	28kN	107 x 61mm	75g	EN 362 Class B
1018972	GO60	Aluminium	60mm	23kN	240 x 113mm	244g	EN 362 Class A
1018977	ML04	Aluminium	63mm	22kN	255 x 120 mm	470g	EN 362 Class A
1018971	FRELON	Aluminium	22mm	22kN	117 x 77mm	100g	EN 362 Class B







# CONFINED SPACE

#### **DuraHoist 3Pod NEW**

A single tripod adjustable to various confined space work situations. It is easy to transport and rapid to install.





#### **FEATURES & BENEFITS:**

- Easy to carry & move (leg profile ergonomic for hand grip)
- Easy & safe to install in less than 2 minutes (all legs open simultaneously, 1 knob fixing all legs together)
- Adaptable to different manhole sizes (1m – 1.50m – 2.50m)
- of the EN 795:2012 class B (CN/TS 16415)
- Tested for 2 persons (up to 140kg each)



Conforms to EN 795:2012 class B (CN/TS 16415)

REF.	DESCRIPTION
1034430	DuraHoist 3pod
Accessories	
1034511	Bag for DuraHoist 3pod



#### WINCH/MATERIAL HANDLING NEW

Durahoist Winch can be used to lower and lift equipment, tools and other types of materials: maximum weight load limit for material handling is 300kg.

REF.	LENGTH	DESCRIPTION
1034611	15m	Winch
1034612	30m	Winch
1034613	-	Bracket for Winch 15m and 30m





#### MIGHTEVAC® RESCUE/RETRIEVAL HOIST

Combines the superior performance and reliability for emergency evacuation 15m to 30m - Cable self-retracting lifeline with emergency retrieval winch.





REF.	LENGTH	DESCRIPTION
1005149-A	15m	MightEvac Lifeline Material: Galvanised Steel
1014390-A	15m	MightEvac Lifeline Material: Stainless Steel
1034431	15m	Bracket for MightEvack®

#### **FEATURES & BENEFITS:**

- 4.8mm galvanised or stainless steel cable
- Quick-activating retrieval winch mechanism
- Pressed steel housing and compact design.
- Rescue winch (up/down), gear ratio 5:1.
- Corrosion-resistant stainless steel/ aluminum components.
- Convenient, heavy-duty carrying handle.
- Integrated fall indicator.
- Heavy duty performance
- Easy-to-use.
- Used in conjunction with the Miller Tripod and dedicated brackets to form the core of a stable and secure confined entry/rescue system.





# RESCUE & EVACUATION

### MILLER SAFEESCAPE™ ELITE RESCUE/DESCENT DEVICE (RDD)



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



With Hoisting Wheel

REF.	DESCRIPTION
SafEscape ELIT Water Proof Bag	E With Hoist & Handle, Anchorage Sling with g
1029150	SafEscape ELITE Hoist + Handle 20m Rope
1029151	SafEscape ELITE Hoist + Handle 30m Rope
1029152	SafEscape ELITE Hoist + Handle 40m Rope
1029153	SafEscape ELITE Hoist + Handle 50m Rope
1029154	SafEscape ELITE Hoist + Handle 60m Rope
1029155	SafEscape ELITE Hoist + Handle 70m Rope
1029156	SafEscape ELITE Hoist + Handle 80m Rope
1029157	SafEscape ELITE Hoist + Handle 90m Rope
1029158	SafEscape ELITE Hoist + Handle 100m Rope
1029159	SafEscape ELITE Hoist + Handle 110m Rope
1029160	SafEscape ELITE Hoist + Handle120m Rope
1029161	SafEscape ELITE Hoist + Handle 130m Rope
1029162	SafEscape ELITE Hoist + Handle 140m Rope
1029163	SafEscape ELITE Hoist + Handle 150m Rope
1029164	SafEscape ELITE Hoist + Handle 160m Rope
1029165	SafEscape ELITE Hoist + Handle 170m Rope
1029166	SafEscape ELITE Hoist + Handle 180m Rope
1029167	SafEscape ELITE Hoist + Handle 190m Rope
1029168	SafEscape ELITE Hoist + Handle 200m Rope









# PERSONAL FALL ARREST SYSTEM

I-beam

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

Individually, these components will not provide protection from a fall. However, when used properly and in conjunction with each other, they form a Personal Fall Arrest System that becomes vitally important to safety on the job site.

#### ANCHORAGE/ ANCHORAGE CONNECTOR

#### Anchorage:

 Commonly referred to as a tie-off point (Ex: I-beam)

#### **Anchorage Connector:**

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

#### **BODY WEAR**

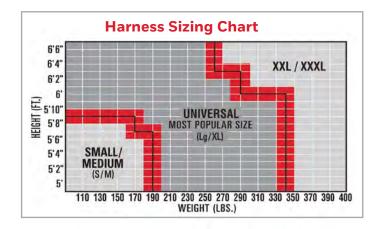
 The personal protective equipment worn by the workers (Ex: full body harness)

#### **CONNECTING DEVICE**

- The critical link which joins the body wear to the anchorage/ anchorage connector
- (Ex: self-retracting lifeline or shock-absorbing lanyard)





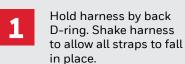




## SIX EASY STEPS THAT COULD SAVE YOUR LIFE HOW TO DON A HARNESS:









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



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



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



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



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.





# INSPECTION AND MAINTENANCE

#### HARNESS (AND BODY BELT) INSPECTION



Webbing

Grasp the webbing with your hands 6 inches (152mm) to 8 inches (203mm) apart. Bend the webbing in an inverted "U" as shown. The resulting surface tension makes damaged fibers or cuts easier to detect. Follow this procedure the entire length of the webbing, inspecting both sides of each strap. Look for frayed edges, broken fibers, pulled stitches, cuts, burns and chemical damage.



**D-Rings/Back Pads** 

Check D-rings for distortion, cracks, breaks, and rough or sharp edges The D-ring should pivot freely. Inspect for any unusual wear, frayed or cut fibers, or broken stitching of the D-ring attachments. Pads should also be inspected for cracks, excessive wear, or other signs of damage.



**Buckles** 

Inspect for any unusual wear, frayed or cut fibers, or broken stitching of the buckle attachments.



Tongue Buckles/ Grommets

> Buckle tongues should be free of distortion in shape and motion. They should overlap the buckle frame and move freely back and forth in their socket. Roller should turn freely on frame. Check for distortion or sharp edges. Inspect for loose, distorted or broken grommets. Webbing should not have additional punched holes.



**Friction and Mating Buckles** 

> Inspect the buckle for distortion. The outer bars and center bars must be straight. Pay special attention to corners and attachment points at the center bar.



**Quick-Connect Buckles** 

Inspect the buckle for distortion. The outer bars and center bars must be straight. Make sure dualtab release mechanism is free of debris and engages properly.



**Harness Fall Arrest Indicators** 

Stretched

Broken

Inspect fall arrest indicators (located on the back D-ring pad) for signs of activation. Remove from service if broken or stretched between any of the four (4) pairs of arrows.





Hardware: Snaps

Inspect closely for hook and eye distortions, cracks, corrosion, or pitted surfaces. The keeper (latch) should seat into the nose without binding and should not be distorted or obstructed. The keeper spring should exert sufficient force to firmly close the keeper. Keeper locks must prevent the keeper from opening when the keeper closes.



**Hardware: Thimbles** 

The thimble must be firmly seated in the eve of the splice, and the splice should have no loose or cut strands. The edges of the thimble must be free of sharp edges, distortion, or cracks.



Wire Rope Lanyard

Always wear gloves when inspecting a wire rope lanyard; broken strands can cause injury. While rotating the wire rope lanyard, watch for cuts, frayed areas or unusual wearing patterns on the wire. Broken strands will separate from the body of the lanvard



**Web Lanyard** 

While bending webbing over a pipe or mandrel, observe each side of the webbed lanyard. This will reveal any cuts, snags or breaks. Swelling, discoloration, cracks and charring are obvious signs of chemical or heat damage. Observe closely for any breaks in stitching. Inspect lanyard warning flag for signs of activation. Titan tubular lanyards must be measured to determine activation.



Rope Lanyard

Rotate the rope lanyard while inspecting from end-to-end for any fuzzy, worn, broken or cut fibers. Weakened areas from extreme loads will appear as a noticeable change in original diameter. The rope diameter should be uniform throughout, following a short break-in period.



should be examined for burn holes and tears. Stitching on areas where the pack is sewn to be examined for loose strands, of activation.



#### SELF-RETRACTING LIFELINE INSPECTION



#### **Check Housing**

Before every use, inspect the unit's housing for loose fasteners and bent, cracked, distorted, worn, malfunctioning or damaged parts.



#### Lifeline

Test the lifeline retraction and tension by pulling out several feet of the lifeline and allow it to retract back into the unit. Always maintain a light tension on the lifeline as it retracts.

The lifeline should pull out freely and retract all the way back into the unit. Do not use the unit if the lifeline does not retract. The lifeline must be checked regularly for signs of damage. Inspect for cuts, burns, corrosion, kinks, frays or worn areas. Inspect any sewing (web lifelines) for loose, broken or damaged stitching.



#### **Braking Mechanism**

The braking mechanism can be tested by grasping the lifeline above the load indicator and applying a sharp steady pull downward which will engage the brakes. There should be no slippage of the lifeline while the brakes are engaged. Once tension is released, the brakes will disengage and the unit will return to the retractable mode. Do not use the unit if the brakes do not engage.

Check the hardware as directed in 1A under Lanyard Inspection. The snap hook load indicator is located in the swivel of the snap hook. The swivel eye will elongate and expose a red area when subjected to fall arresting forces. Do not use the unit if the load impact indicator has been activated.



#### **Snap Hook**

Check the snap hook to be sure that it operates freely, locks, and the swivel operates smoothly. Inspect the snap hook for any signs of damage to the keepers and any bent, cracked, or distorted components.



#### **Anchorage Connection**

Make sure the carabiner is properly seated and in the locked position between the attachment swivel/point on the device and the anchor point.

### **CLEANING**

Basic care of all safety equipment will prolong the durable life of the unit and will contribute toward the performance of its vital safety function.

Proper storage and maintenance after use are as important as cleansing the equipment of dirt, corrosives or contaminants. Storage areas should be clean, dry and free of exposure to fumes or corrosive elements.

#### 1. Nylon or Polyester

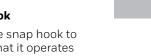
Remove all surface dirt with a sponge dampened in plain water. Squeeze the sponge dry. Dip the sponge in a mild solution of water and commercial soap or detergent. Work up a thick lather with a vigorous back-and-forth motion; then wipe with a clean cloth. Hang freely to dry, but away from excessive heat.

#### 2. Housing

Periodically clean the unit using a damp cloth and mild detergent. Towel dry.

#### 3. Housing

Equipment should dry thoroughly without close exposure to heat, steam or long periods of sunlight.

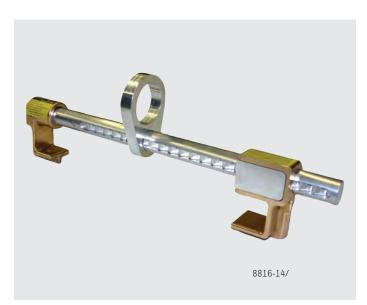






# TEMPORARY ANCHORAGE CONNECTORS

Anchorage Connectors are designed as the intermediary 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, located a safe distance above any lower obstacles and support 5,000 lbs. (22 kN) per worker.



#### Miller Shadow®

#### **Sliding and Fixed Adjustable Beam Anchors**

Miller Shadow Sliding and Fixed Adjustable Beam Anchors connect horizontally to a wide range of I and H beam flanges from 3 inches. (76mm) to 24 inches (610mm) wide and up to 2-1/2-in. (64mm) thick. Once attached, the beam anchor (SKU: 8814 and 8816) slides along the beam with the worker to provide increased safety, mobility and productivity.

The fixed beam anchors (SKU: 8815) are designed to be tightened horizontally or vertically, firmly gripping the beam or column to provide a temporary or permanent anchorage attachment

REF.	WEBBING SIDE	FITS FLANGE SIZES	MAXIMUM FLANGE THICKNESS
8814-12/	Lightweight, Sliding Shadow Beam Anchor – Stainless Steel & High-Strength Aluminum	4-In. to 12-In. (102 mm to 305 mm)	1-1/4 ln. (32mm)
8814-24/	Lightweight, Sliding Shadow Beam Anchor – Stainless Steel & High-Strength Aluminum	12-In. to 24-In. (305 mm to 610 mm)	2-1/2 ln. (63.5mm)
8815-12/	Lightweight, Fixed Beam Anchor – Stainless Steel & High-Strength Aluminum	4-In. to 12-In. (102 mm to 305 mm)	1-1/4 ln. (32mm)
8815-24/	Lightweight, Fixed Beam Anchor – Stainless Steel & High-Strength Aluminum	12-In. to 24-In. (305 mm to 610 mm)	2-1/2 ln. (63.5mm)
8816-14/	Lightweight, Sliding Shadowlite Beam Anchor – High-Strength Aluminum & Bronze; 4.2 Lbs (2Kg)	3-In. to 14-In. (76 mm to 356 mm)	1-1/4 ln. (32mm)



#### Miller Grip™

The Miller Grip Anchorage connectors are reusable and can be removed and simply re-installed in a new location. Constructed of stainless steel, aluminum and other non-corrosive materials for a longer service life.



#### Miller Grip™ Anchorage Connector

A safe anchor point is established when the Miller Grip Anchor is inserted into a properly-sized, cured concrete hole. Designed for use in cured concrete with a compression strength of at least 3,000 psi (20.7 MPa), it can be used for vertical or overhead/ceiling surface applications.



#### Miller Grip™ Friction Bolt Anchorage Connector

A portable/reusable anchorage connector, designed exclusively for use with a friction bolt. A safe anchor point for a single user is established when the Miller Grip Friction Bolt Anchor (SKU 494/) is inserted into a friction bolt with an outside diameter of 1.5 inches (39mm).

REF.	HOLE DIAMETER	DESCRIPTION
Miller Grip A	nchorage Connector	
496/	3/4-in. (19mm)	5,000 lbs. (2,268kg) ultimate strength; for single user connection; 400 lbs. (181kg) maximum capacity
497/	1-in. (25mm)	10,000 lbs. (4,536kg) ultimate strength; for single user connection; 400 lbs. (181kg) maximum capacity
Miller Grip N	Multi Use Anchorage Connector	
498/	3/4-in. (19mm)	1,000 lbs. (456kg) safe working load
499/	1-in. (25mm)	2,000 lbs. (907kg) safe working load
Miller Grip F	riction Bolt Anchorage Connector	
494/	1-1/2-in. (39mm)	10,000 lbs. (4,536kg) ultimate strength; for single user 400 lbs. (181kg) maximum capacity









#### **Cross-Arm Anchorage Connectors**

6ft (1.8m) web Cross-Arm Strap wraps around I-beams and other structures and attaches with a 2 inches (51mm) D-ring that slips through a 3 inches (76mm) D-ring to form a secure attachment point for lanyards and other connecting devices.



### **Looped Cross-Arm Anchorage Connectors**

The looped cross-arm anchorage connector features a 2 inches (50mm) D-ring which slips through looped webbing.





The Cable Anchorage Connector creates quick, easy and secure anchorage attachment.

Constructed of 0.25 inch (6mm) vinyl-coated, galvanized cable and a steel 3 inches (76mm) 0-ring.

Standard length is 6ft (1.8m); additional lengths available.

n)
n)



Steel Double-Lock Karabiner



Lightweight, Aluminum Double-Lock Karabiner

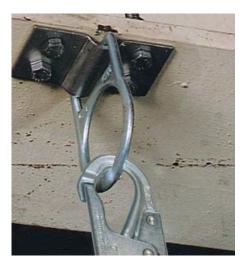


Lightweight, Aluminum Triple-Lock Karabiner



## PERMANENT ANCHORAGE CONNECTORS





Mounted D-Ring Steel D-Ring Anchor with plate, complete with 4.37 inches (111mm) diameter bolts, lockwashers, nuts and drilling template



**Beam Trolley**Adjustable and slides along with the worker to provide maximum mobility.



**D-Bolt Anchor**For up to 4 inches (102mm) working thickness. Includes a 0.63 inch (16mm) diameter bolt with lockwasher and nut.

REF.	DESCRIPTION	MAXIMUM CAPACITY
Mounted D-Rin	ng	
410/	Mounted D-Ring. Steel D-ring Anchor with Plate, complete with 4.37 inches (111mm) diameter bolts, Lockwasers, Nuts and Drilling Template.	-
Beam Trolley		
9065/BK	Adjusts to fit Beam Flanges from 3 inches (76mm) to 4.5 inches (114mm) wide	-
9065-1/	Lightweight Beam Trolley Retrofit Kits: - Kit converts 9065/BK Beam Trolley to Accommodate I-beams up to 8.5 inches (216mm) wide	-
9065-2/	Lightweight Beam Trolley Retrofit Kits: - Kit converts 9065/BK Beam Trolley to Accommodate I-Beams up to 12 inches (305mm) wide	400 lbs. (181kg)
D-Bolt Anchor		
416/-	D-Bolt Anchor with Hardware	-
416SS/-	Stainless Steel D-Bolt Anchor with Hardware	-
417/	D-Bolt Anchor without Hardware	-
417SS/	Stainless Steel D-Bolt Anchor without Hardware	-



#### MILLER SkyORB™



#### **Overhead Rotational Boom Anchor**

The new SkyORB Overhead Rotational Boom Anchor provides a safe overhead anchorage that is designed specifically for use around vehicles, utilizing the vehicle weight to secure the anchor for proper fall arrest, eliminating the need for heavy and bulky counter weights. The SkyORB Anchor is a pre-engineered system that replaces the need for very expensive, custom engineered, fixed overhead anchor systems.

#### **FEATURES & BENEFITS:**

- Provides workers with an easy and quick connection with their fall arrest system while working at height
- Designed to eliminate the need for heavy and bulky counter weights by utilizing vehicle weight to safely secure the system in place
- Weighing only 1,050 lbs. (476kg), it is significantly lighter than competitive systems on the market
- The adjustable telescoping mast allows the height of the system to be varied from 14 ft.–20 ft. (4 m - 6 m) to accommodate lower roofs and overhead obstacles
- Features a boom that rotates 360°, allowing it to be easily positioned above the worker's head, minimizing free-fall distance and swing fall
- Patented energy absorbing technology reduces forces on the system
- Modular design is easy to assemble and transport using only a forklift



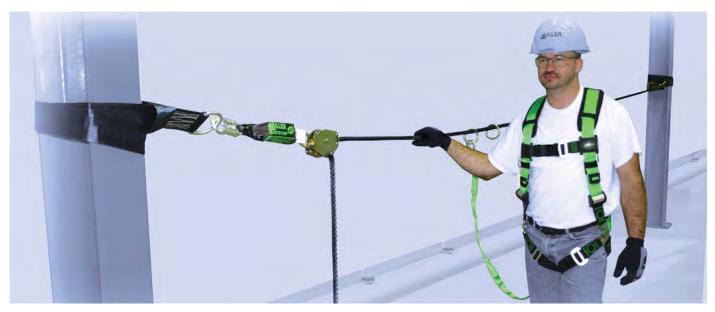
REF.	DESCRIPTION	WEIGHT*	CRATE DIMENSIONS* (L X W X H)
SORBSYS	Cable Assembly Kit, Base, Mast and Boom	1,530 lbs (694kg)	121" x 40" x 19" (3m x 1m x 0.5m)
SORBCABLEKIT	Shock Absorber Cable Assembly Replacement Kit (includes cable with swaged ends, two shock absorbers, a clevis and pin, and one karabiner)	8 lbs (3.63kg)	72" x 6" x 6" (1.83m x 0.15m x .015m)

<sup>\*</sup>Shipping weight displayed. Product weight is 1,050 lbs. (476kg). Dimensions displayed reflect measurements of the crate for shipping purposes.

All Miller brand fall protection products meet applicable OSHA, ANSI and CSA requirements.



## TEMPORARY ROOF ANCHORS



#### MILLER TechLine™

#### **Temporary Horizontal Rope Lifeline System Kits**

A premium temporary horizontal rope lifeline system for two workers. The black static kernmantle lifeline provides ultimate durability for tough environments while reducing fall clearance requirements. An in-line system shock absorber reduces forces while O-ring connections allow for ease of mobility. The systems are quick and easy to install, lightweight and portable.



#### **FEATURES & BENEFITS:**

- Low-stretch rope lifeline for better performance/less deflection
- Kit accommodates two workers
- Lightweight kit; easy to carry
- Quick and easy to install for increased productivity
- Cross-arm anchorage straps for easy installation
- Connecting O-rings for greater mobility
- Shock absorber pack reduces

  fall arrest forces
- Designed so anchorage points only need to be rated for 5,000 lbs. (22 kN)
- Rope lifeline adjuster to accommodate required length
- Waterproof bucket for safe storage

REF.	DESCRIPTION	KIT CONTENTS
HLLR2-Z7/30FT	30ft (9m) Rope Temporary HLL System	11/16-in. (17.5mm) Kernmantle-style rope lifeline / Lifeline adjuster / Two (2) Heavy-duty cross-arm for two workers, Anchorage straps / Shock absorber pack / Two (2) Connecting O-rings / Waterproof bucket
HLLR2-Z7/60FT	60ft (18m) Rope Temporary HLL System	11/16-in. (17.5mm) Kernmantle-style rope lifeline / Lifeline adjuster / Two (2) Heavy-duty cross-arm for two workers, Anchorage straps / Shock absorber pack / Two (2) Connecting O-rings / Waterproof bucket







## GUIDE TO HARNESS FEATURES

#### STANDARD FEATURES



Sliding/Stand-Up Back D-Ring

Sliding back D-ring with injection-molded, flexible Santoprene® D-ring pad. Comfort-touch back D-ring pad (inset) provides added comfort.



Self-Contained Label Pack

Integrated pack encapsulates labels minimizing damage and loss.



Pull-Free Lanyard Rings

Allows user to attach lanyard when not in use. Minimizes hazards associated with the lanyard hanging freely.



Miller Revolution ErgoArmor Back Shield

Semi-flexible back shield minimizes impact from sharp/heavy snap hooks and self-retracting lifelines. Stand-up back D-ring simplifies connection.



Miller Revolution PivotLink™ Connection

Unique rotary design provides greater comfort in bending/mobility.

#### **ADJUSTMENT BUCKLE TYPES**



**Quick-Connect Buckle** 

Quick-connect buckles for chest and leg straps interlock similar to a seat belt for easy donning and feature a dual-tab release mechanism to prevent accidental opening.



**Tongue Buckle** 

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



**Mating Buckle** 

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.



**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.



Cam Buckle

Easy, one-hand adjustment/release allows simultaneous adjustment of shoulder straps.

#### **D-RING OPTIONS**



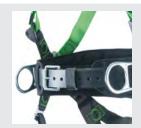
Front D-Ring

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



**Shoulder D-Rings** 

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



Side D-Rings

Most commonly used for work positioning.



**PVC Coated D-Rings** 

Most commonly used to prevent scratching in a variety of applications.

## **HARNESSES**

#### MILLER AIRCORE™ HARNESSES

#### **FEATURES & BENEFITS:**

- Breathable, Open-Core Padding Technology Maximizes airflow, and reduces heat and moisture build-up; up to 16% less surface area than other padding used on the market
- Lightweight Aluminum materials and components selected to reduce fatigue for all-day endurance and increased productivity. 16% lighter in weight than competitive harnesses with aluminum hardware and 20% lighter than harnesses with steel hardware
- Front D-ring option is designed for use in climbing, confined space and rescue applications
- One-hand adjustment shoulder cam buckles; Stand-up back D-ring; Quick-connect chest buckle; Pull-free lanyard rings
- Rated to 400 lbs (181kg) capacity





AC-QC-BDP/UGN

ACF-TBDUG



REF.	SIDE D-RINGS	SHOULDER D-RINGS	CHEST STRAP	LEG STRAP	LUMBAR PAD/ REMOVABLE BELT	WEIGHT
With Steel Hardware						
AC-QC/UGN	No	No	Quick-Connect	Quick-Connect	No	4.0 lbs
AC-TB/UGN	No	No	Quick-Connect	Tongue	No	4.0 lbs
AC-QC-D/UGN	Yes	No	Quick-Connect	Quick-Connect	No	4.7 lbs
AC-TB-D/UGN	Yes	No	Quick-Connect	Tongue	No	4.7 lbs
AC-QC-BDP/UGN	Yes	No	Quick-Connect	Quick-Connect	Yes	6.1 lbs
AC-TB-BDP/UGN	Yes	No	Quick-Connect	Tongue	Yes	6.1 lbs

To order AirCore Harnesses with aluminum hardware, add an "A" after the "C" in the model number (ex. ACA-QC/UGN) — this excludes model numbers beginning with "ACSD".

With Front D-Ring						
ACF-TBUG	No	-	Quick-Connect	Tongue	No	4.1 lbs
ACF-TBDUG	Yes	-	Quick-Connect	Tongue	No	4.8 lbs

To order AirCore Front D-Ring Harnesses with **aluminum hardware**, replace the "C" in the model number with "A" (ex. AAF-QCUG)

With Aluminum Hardware and Front D-Ring								
AFF-QCUG	No	-	Quick-Connect	Quick-Connect	No	3.6 lbs		
AFF-TBDUG	Yes	-	Quick-Connect	Tongue	No	4.8 lbs		
AAF-QCBDPUG	Yes	-	Quick-Connect	Tongue	No	4.8 lbs		

 ${\it All Miller brand fall protection products\ meet\ applicable\ OSHA, ANSI\ and\ CSA\ requirements.}$ 





#### MILLER AIRCORE™ HARNESSES



#### For Oil and Gas



#### **FEATURES & BENEFITS:**

- Multiple Back D-ring connections -18" extended back D-ring provides an easy-to-reach attachment point for fall arrest, freeing the back D-ring as an additional connection point for fall arrest or rescue
- Enhanced lumbar padding Expanded front waist padding for increased comfort and support
- Up to 20% lighter than similar productivity and reduced fatigue
- Removable belt with leather guide Improved design provides increased
- Lower lumbar D-ring Provides
- seat for added support
- Seat sling attachment Flexible seat for use with a derrick climb-assist system, reducing worker fatigue



ACOG-TBSSUG

REF.	DESCRIPTION	SPECIAL FEATURE	WEIGHT
ACOG-TBBCUG	Tongue Buckle Legs, Mating Buckle Chest Strap, Front D-Ring, Extended Back D-ring, Lumbar Pad, Removable Belt with Lumbar D-ring	Removable Bos'n Chair with Side D-rings	9.2 lbs (4.2kg)

#### For Wind Energy



#### **FEATURES & BENEFITS:**

- Up to 24% lighter than similar and reduced fatigue
- Up to 16% less surface area than other padding used on the market working longer
- Wear Pad Lightweight, non-marring material designed to protect the harness and the wall of the turbine
- Removable Belt with tool loops Uniquely designed to stay in position are attached



#### WITH ALUMINIUM HARDWARE

REF.	DESCRIPTION	SPECIAL FEATURE	WEIGHT
ACOG-TBBCUG	Quick Connect Chest and Leg Straps, Front D-Ring, Lumbar Pad, Side D-rings, Removable Belt with Tool Loops	Removable Lumbar Wear Pad	5.8 lbs (2.6kg)

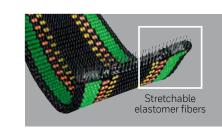
Model numbers listed are for universal size. Harnesses are also available in small/medium and XXlarge by replacing the "U" in the model number with "SM" or "23X". To order a blue harness, simply replace the "G" in the model number with "B" (ex. ACOG-TBSSUB). All listed models include a back D-ring and sub-pelvic strap.



## MILLER DURAFLEX® HARNESSES

#### **FEATURES & BENEFITS:**

- Patented Miller DuraFlex Harnesses feature specially formulated elastomer webbing that stretches
- Rated to 400 lbs. (181.4kg) capacity
- Maximize Comfort: DuraFlex Harnesses conform to the shape of the worker, stretching with every movement, so there is no bunching, binding or kinking
- Improve Safety: With comfort unsurpassed, DuraFlex Harnesses offer wider end-user acceptance. And, a comfortable harness is worn properly, enhancing compliance and safety on the job site
- Increase Productivity: Because
   DuraFlex Harnesses are stretchable,
   the worker has greater mobility with
   less fatigue





E650/UGN

REF.	SIZE	FRONT D-RING	BACK D-RING	SIDE D-RINGS	SHOULDER STRAP BUCKLE	LEG STRAP BUCKLES	CHEST STRAP BUCKLES	SUB-PELVIC STRAP	SPECIAL FEATURES	
Series 650 Har	Series 650 Harnesses									
E650-4/UGN	XXL	No	Yes	Yes	Friction	Mating	Mating	Yes	Pull-up Adjustment / Pull-free Lanyard Rings / Belt loops	
E650-7/UGN	U	No	Yes	Yes	Friction	Mating	Mating	Yes	Pull-up Adjustment / Pull-free Lanyard Rings / Belt Loops	
E650FD/UGN	U	Yes	Yes	Yes	Mating	Mating	No	Yes	Pull-up Adjustment / Pull-free Lanyard Rings / Belt Loops	
Ms. Miller® Harness										
E570/URN	U	Yes	Yes	No	Friction	Mating	Mating	No	Back and Leg Pads / Pull-free Lanyard Rings	

SKU numbers listed are for Universal (Lg./XL) size. Harnesses are also available in small/medium, XXL and XXXL, by replacing the "U" in the SKU number with "S/M", "XXL" or "XXXL" (Ex: E550/XXLGN).







#### MILLER HP™ (HIGH PERFORMANCE)

#### **Non-Stretch Harnesses**

- Non-stretch webbing harness
- Comfort-touch back D-ring pad designed with woven, breathable material for cooler extended-wear comfort; orients harness for quick, tangle-free donning
- Rated to 400 lbs (181.4kg) capacity







REF.	SIZE	BACK D-RING	FRONT D-RING	SIDE D-RINGS	CHEST STRAP BUCKLE	SHOULDER STRAP BUCKLES	LEG STRAP BUCKLES	SUB-PELVIC STRAP	SPECIAL FEATURES
Pull-Up Adjustment Style									
650T/UGK	U	Yes	Option	No	Mating	Friction	Mating	Yes	Pull-Free Lanyard Rings / Belt Loops

SKU numbers listed are for Universal (Lg./XL) size. Harnesses are also available in small/medium, XXL and XXXL, by replacing the "U" in the SKU number with "S/M", "XXL" or "XXXL" (Ex: 650T/XXLGK). For front D-ring vest-style option, add "FD" to the corresponding harness SKU number (Ex: 650T/XLGK).

## MILLER HARNESS ACCESSORIES

#### MILLER RELIEF STEP™ SAFETY DEVICE

The Miller Relief Step Safety Device alleviates the effects of orthostatic intolerance, also known as suspension trauma.

If a fall occurs, a person becomes suspended in a harness and remains both vertical and sedentary for a period of time, causing blood to "pool" in the veins of the legs. Subsequently, blood is restricted to the brain and other major organs that may initially result in unconsciousness.

If not rescued promptly, serious injury or death may occur. The Miller Relief Step is designed to provide a short-term solution for alleviating suspension trauma.





#### **FEATURES & BENEFITS:**

- OSHA states that potentially fatal suspension trauma can occur within minutes while waiting for rescue after a fall
- Average fall rescue time is 15
- When used, the Relief Step Safety Device provides support and enhances blood circulation until rescue – permitting the ability to move and flex leg muscles
- Small and lightweight; the Relief Step Safety Device attaches to any brand full-body harness
- Utilizing two Relief Steps (one for each leg/foot) assures greater comfort until rescue is completed

REF.	DESCRIPTION
9099X/12-H5	Consists of a box of 12 Relief Step Safety Devices
9099/36BULK	36 Relief Step Safety Devices in bulk quantity







# PERSONAL FALL LIMITERS (PFL)

#### MILLER TURBOLITE™ EDGE SERIES

Honeywell's extensive series of Miller TurboLite Personal Fall Limiters (PFLs) is even more versatile with the introduction of the TurboLite Edge Series.

Whether you work in construction, industrial, or even wind power, units for sharp and smooth edges including options for tie-back applications will help you ensure workers are safe in applications requiring foot-level tie-off or work near edges.

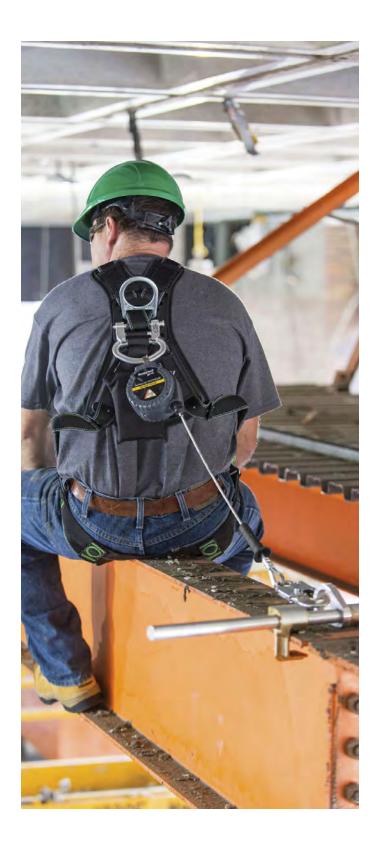
#### MAKE CONFIDENCE YOUR TRUE EDGE

TurboLite Edge PFLs are engineered to deliver the assurance you expect from Miller Fall Protection, in a wide range of lengths and innovative features:

- Safe Models are available for sharp and smooth edges. Sharp Edge models are ANSI Leading Edge certified for edges with a radius ≥ 0.005 inch (0.13mm). Smooth Edge models are designed for a radius ≥ 0.060 inch (1.5mm)
- Versatile Can be used for foot-level tie-off or anchored overhead as a traditional SRL for workers up to 420 lbs.
- Compact and Lightweight Reduce fatigue, increase productivity
- Simple Easy to install, easy to use
- Superior Mobility Integral swivel design prevents lifeline from twisting
- Durable High-impact nylon housing and abrasion resistant webbing
- Reliable Durable design with integral shock absorber with the ability to repair and replace
- Configurable A broad range of working lengths featuring cable, web, and tie-back options with a wide variety of lifeline connectors
- Twin Models available Provides 100% tie-off connection

The TurboLite Edge Series is available in both web and galvanized cable lifeline options, in working lengths that range from 6-12ft (1.8-3.7m).

Note: All connectors include 3,600-lbs gate-strength





#### MILLER TURBOLITE™ EXTREME

Cable Lifeline for Sharp Edge Applications

- Designed for use in sharp edge applications with radius  $\ge 0.005$  in (0.13 mm)
- Meets ANSI Z359.14 Class B and Leading Edge requirements
- Galvanized cable lifeline

REF.	LENGTH	WEIGHT	SINGLE OR TWIN	LIFELINE CONNECTORS(S)
MFLEC-3/6FT	6ft	4.0 lbs (1.8kg)	Single	Steel Locking Snap Hook
MFLEC-12/6FT	6ft	4.5 lbs (2.0kg)	Single	Aluminum Locking Rebar Hook
MFLEC2-3/6FT	6ft	6.9 lbs (3.1kg)	Twin	Steel Locking Snap Hooks
MFLEC2-4/6FT	6ft	8.8 lbs (4.0kg)	Twin	Steel Locking Rebar Hooks
MFLEC2-12/6FT	6ft	8.0 lbs (3.6kg)	Twin	Aluminum Locking Rebar Hooks
MFLEC-3/9FT	9ft	4.2 lbs (1.9kg)	Single	Steel Locking Snap Hook
MFLEC-12/9FT	9ft	4.7 lbs (2.1kg)	Single	Aluminum Locking Rebar Hook
MFLEC2-3/9FT	9ft	7.3 lbs (3.3kg)	Twin	Steel Locking Snap Hooks
MFLEC2-4/9FT	9ft	9.1 lbs (4.1kg)	Twin	Steel Locking Rebar Hooks
MFLEC2-12/9FT	9ft	8.3 lbs (3.8kg)	Twin	Aluminum Locking Rebar Hooks



MFLEC2-12/6FT

#### MILLER TURBOLITE™ MAX

Web Lifeline for Smooth Edge Applications

- Designed for use in smooth edge applications with radius  $\geq 0.060$  inch (1.5mm)
- Meets ANSI Z359.14 Class B requirements
- Honeywell Spectra® webbing lifeline provides outstanding chemical, abrasion, and cut resistance

REF.	LENGTH	WEIGHT	SINGLE OR TWIN	LIFELINE CONNECTORS(S)
MFLEW-3/6FT	6ft	3.5 lbs (1.6kg)	Single	Steel Locking Snap Hook
MFLEW-12/6FT	6ft	6.9 lbs (3.1kg)	Twin	Aluminum Locking Rebar Hook
MFLEC-3/9FT	<b>C-3/9FT</b> 9ft 3		Single	Steel Locking Snap Hook
MFLEC-12/9FT	C-12/9FT 6ft 7.0 lbs (3.2k		Twin	Aluminum Locking Rebar Hook
MFLEW-3/12FT	<b>1FLEW-3/12FT</b> 12ft 3.6 lbs (1.6kg		Single	Steel Locking Snap Hook
MFLEW-2-12/12FT	12ft	7.1 lbs (3.2kg)	Twin	Aluminum Locking Rebar Hook



MFLEW2-12/6FT





#### MILLER TURBOLITE™ PERSONAL FALL LIMITERS

The cost-effective and competitive pricing of the Miller TurboLite Personal Fall Limiters will make shock-absorbing lanyards obsolete on the job site. Workers will no longer need to "switch-out" equipment to maintain a safe fall distance.

- First affordable alternative to shock-absorbing lanyards
- Extremely compact and lightweight
- Available in 6ft (1.8m) and 9ft (2.7m) working lengths
- Unit attaches directly to the harness back D-ring for greater mobility and versatility
- Engineered webbing for greater abrasion resistance and longer service life
- High-strength, impact-resistant nylon housing for maximum durability
- Built-in swivel prevents lifeline from twisting
- Rated for up to a 400 lbs (181.4kg) worker
- No annual factory recertification required



REF.	LENGTH	WEIGHT	UNIT CONNECTOR	LANYARD END CONNECTOR
MFL-1-Z7/6FT	6ft	2.5 lbs (1.1kg)	Steel Karabiner	Steel Locking Snap Hook
MFL-2-Z7/6FT	6ft	3.4 lbs (1.5kg)	Steel Karabiner	Steel Locking Rebar Hook
MFL-9-Z7/6FT	6ft	2.7 lbs (1.2kg)	Steel Locking Snap Hook	Steel Locking Snap Hook
MFL-11-Z7/6FT	6ft	1.9 lbs (0.86kg)	Aluminum Karabiner	Aluminum Locking Snap Hook
MFL-12-Z7/6FT	6ft	2.6 lbs (1.2kg)	Aluminum Karabiner	Aluminum Locking Rebar Hook
MFL-1-Z7/9FT	9ft	2.9 lbs (1.3kg)	Steel Karabiner	Steel Locking Snap Hook
MFL-9-Z7/9FT	9ft	3.1 lbs (1.4kg)	Steel Locking Snap Hook	Steel Locking Snap Hook
MFL-11-Z7/9FT	9ft	2.5 lbs (1.1kg)	Aluminum Karabiner	Aluminum Locking Snap Hook
MFL-12-Z7/9FT	9ft	3.4 lbs (1.5kg)	Aluminum Karabiner	Aluminum Locking Rebar Hook

Note: Locking snap hook – 0.75 inch (19mm) gate opening. Locking rebar hook – 2.5 inches (63mm) gate opening. All connectors include 3,600 lbs gate-strength.



Steel Karabiner



Steel Locking Swivel Snap Hook



Aluminum Karabiner



Steel Locking Snap Hook



Without Unit Connector



Aluminum Locking Snap Hook



Aluminum Locking Rebar Hook



Steel Locking Swivel Rebar Hook



Steel Locking Rebar Hook



D-Ring Swivel Hook



#### MILLER TWIN TURBO™ FALL PROTECTION SYSTEMS **WITH G2 CONNECTOR**

New patent-pending Miller Twin Turbo™ G2 Connector easily adapts two lightweight. Miller TurboLite™ Personal Fall Limiters for continuous 100% tie-off fall protection.

- Better alternative to double-leg lanyards – Reduces fall clearance requirements for use in more applications
- Ultimate Mobility PFLs swivel independently to prevent webbing from twisting and binding in the unit
- Lightest-weight Twin Connector on the market - Increases productivity by reducing worker fatigue
- Superior durability Corrosion resistant aluminum connector and high-impact nylon result in a longer product life
- Superior safety Webbing Retainer Clip rotates freely to prevent unintentional opening of carabiner gate
- D-Pad Clip Maintains harness adjustment while working by keeping the harness webbing and D-Pad in place

- Connects to harness webbing below D-ring – Frees harness D-ring for rescue and connection to an overhead SRL
- Webbing Retainer Clip accommodates thicker webbing designs for more versatility and easy insertion of the webbing











MFLC-12-Z7/9FT

REF.	LENGTH	WEIGHT	UNIT CONNECTOR	LANYARD END CONNECTOR
MFLC-12-Z7/6FT	6ft	5.8 lbs (2.6kg)	Twin Turbo G2 Connector	Aluminium Locking Rebar Hooks
MFLC-12-Z7/9FT	9ft	6.6 lbs (2.9kg)	Twin Turbo G2 Connector	Aluminium Locking Rebar Hooks
Twin Turbo G2 Conr	nector And Co	nponents		
MFLC/	-	0.37 lbs (0.17kg)	Twin Turbo G2 Connector Kit - includes MFLC-1/, MFLC-2/, and MFLC-3/	-
MFLC-1/	-	0.29 lbs (0.13kg)	Aluminium Karabiner	-
MFLC-2/	-	0.04 lbs (0.02kg)	G2 Webbing Retainer Clip	-
MFLC-3/	-	0.04 lbs (0.02kg)	G2 D-Pad Connector Clip	-

Note: All connectors include 3,600-lbs gate-strength





## MILLER MINILITE® FALL LIMITERS



The Miller MiniLite Fall Limiter is an 11ft. (3.4m) self-retracting web lanyard with a quick-activating braking system that limits free falls. In contrast to shock-absorbing lanyards, a fall limiter eliminates the need for extended fall clearance distance, minimizing the risk of injuries and making rescue easier.

- Lightweight, compact design
- Offers up to 11ft. (3.4m) of working capacity
- Quick-activating, high-strength stainless steel braking system
- Corrosion-resistant interior, frame and components
- No annual factory recertification required
- High-impact protective outer cover; visual load indicator
- Available with a variety of integral anchorage connectors
- Rated for up to a 310 lbs (140.6kg) user



FL11-1-Z7/11FT

REF.	LENGTH	WEIGHT	UNIT CONNECTOR	LANYARD END CONNECTOR
FL11-1-Z7/11FT	11ft	3.5 lbs (1.6kg)	Steel Karabiner	Steel Locking Snap Hook
FL11-3-Z7/11FT	11ft	2.8 lbs (1.3kg)	Steel Karabiner & Swivel Shackle	Steel Locking Snap Hook
F11-15-Z7/11FT	11ft	2.7 lbs (1.2kg)	Aluminum Locking Rebar Hook & Swivel Shackle	Aluminum Locking Snap Hook

Note: Locking Snap Hook - 0.75 inch (19 mm) gate opening. All connectors include 3,600 lbs gate-strength. \*Additional lengths available.

## SELF-RETRACTING LIFELINES (SRL)

#### MILLER FALCON™ SELF-RETRACTING LIFELINES

Extremely durable, the high impact-resistant nylon housing withstands the harsh rigors of the toughest applications. The lightest, most rugged line of composite retractables is designed with smooth, round edges to increase durability. Pound for pound the strongest, most durable retractable is available in lengths of 16ft (4.9m), 20ft (6m), 30ft (9m), 50ft (15m) and 65ft (20m).

- Lightest composite unit on the market easy to handle and transport
- Corrosion-resistant stainless steel and aluminum internal components extend service life and reduce replacement costs
- Unique side payout design reduces wear on the entry guide bushing and cable for smooth operation with less drag
- Built-in, ergonomically-designed molded handle on the 50ft (15m) and 65ft (20m) cable models
- Smooth, quiet operation; engineered spring retraction tension designed not to pull or drag on a worker to improve productivity and reduce fatigue



- Dual swivels (unit top and snap hook) included on all cable models to provide support and leverage when attaching to anchorage connector providing easy installation
- New and improved load indicators identify when the unit needs to be removed from service (cable models – on snap hook, web models – flag on webbing)
- No annual factory recertification required – lowers cost of ownership
- Falcon web SRL models rated for up to 400 lbs (181.4kg) worker
- Falcon cable SRL models rated for up to a 310 lbs (140.6kg) worker



MP50G-Z7/50FT

MP16P-Z7/16FT

SKU	Description	Weight
MP16P-Z7/16FT	16ft (4.9m) Web Lifeline w/Stainless Steel Swivel, Steel Twist-Lock Karabiner & Steel Locking Snap Hook	4.1 lb. (1.86 kg)
MP20P-Z7/20FT	20ft (6m) Web Lifeline w/Stainless Steel Swivel, Steel Twist-Lock Karabiner & Steel Locking Snap Hook	4.2 lb. (1.90 kg)
MP30SS-Z7/30FT	30ft (9m) Stainless Steel Cable 0.2 inch (5mm) w/ Tagline & Karabiner	10.7 lb. (4.9 kg)

 $Note: Locking\ Snap\ Hook\ -0.75\ inch\ (19mm)\ gate\ opening.\ All\ connectors\ include\ 3,600\ lbs\ gate-strength.$ 

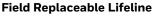




#### MILLER DURASEAL™ SELF-RETRACTING LIFELINES NEW

The new patent-pending Miller DuraSeal™ Self-Retracting Lifeline (SRL) is designed to perform in the harshest environments including onshore and offshore oil and gas, mining and petrochemical. The sealed technology, reusable brake system, field replaceable lifeline and corrosion resistant materials keep the product in the field to lower your cost of ownership.

- Prevents contaminants from entering the unit with highest industry rated sealed technology IP69K
- Built-to-last reusable brake design withstands multiple falls
- Quick, low cost repair is achieved with field replaceable lifeline
- Reduces fatigue and increases productivity with units up to 30% lighter than competitive sealed units
- Enables quicker, easier installation and provides protection from rain
- Product service life is extended in the harshest environments with corrosion resistant components



The Miller Rapid Replace Line provides for quick, low-cost repair that can be performed by users in the field or an authorized Honeywell Repair Center.



Pull out the entire length of cable until shoulder screws are visible and activate lock.



Remove the two shoulder screws on the drum through the side plate cover.



Insert new lifeline into the unit, install shoulder screws and ensure it has engaged.









ATTACHING WITH 4-BOLT HOLE PATTERN

REF.	LENGTH	WEIGHT	MATERIAL	DIMENSIONS (L x W x D)
Miller DuraSea	al™ Sealed SRL with	Cable Sling, Tagline an	nd 2 Karabiners	
SSRL50G1	50ft (15m)	27.3 lbs (12kg)	Galvanized Steel	(12.8 x 11.8 x 4.9) inches / (325 x 300 x 125)mm
SSRL50S1	50ft (15m)	27.3 lbs (12kg)	Stainless Steel	(12.8 x 11.8 x 4.9) inches / (325 x 300 x 125)mm
SSRL100G1	100ft (30m)	59.7 lbs(27kg)	Galvanized Steel	(15.7 x 14.4 x 6.6) inches / (399 x 366 x 168)mm
SSRL100S1	100ft (30m)	59.7 lbs (27kg)	Stainless Steel	(15.7 x 14.4 x 6.6) inches / (399 x 366 x 168)mm
SSRL130G1	130ft (40m)	61.7 lbs (28kg)	Galvanized Steel	$(15.7 \times 14.4 \times 6.6)$ inches $/(399 \times 366 \times 168)$ mm
SSRL130S1	130ft (40m)	61.7 lbs (28kg)	Stainless Steel	(15.7 x 14.4 x 6.6) inches / (399 x 366 x 168)mm
SSRL175G1	175ft (53m)	76.5 lbs (35kg)	Galvanized Steel	(15.7 x 14.4 x 7.8) inches / (399 x 366 x 198)mm
SSRL175S1	175ft (53m)	76.5 lbs (35kg)	Stainless Steel	(15.7 x 14.4 x 7.8) inches / (399 x 366 x 198)mm
Miller DuraSea	al™ Sealed SRL with	ı Cable Sling, Tagline, aı	nd 2 Karabiners and 4-H	ole Mounting Plate
SSRL100G2	100ft (30m)	61 lbs (28kg)	Galvanized Steel	(15.7 x 14.4 x 6.6) inches / (399 x 366 x 168)mm
SSRL100S2	100ft (30m)	61 lbs (28kg)	Stainless Steel	(15.7 x 14.4 x 6.6) inches / (399 x 366 x 168)mm
SSRL130G2	130ft (40m)	63 lbs (29kg)	Galvanized Steel	(15.7 x 14.4 x 6.6) inches / (399 x 366 x 168)mm
SSRL130S2	130ft (40m)	63 lbs (29kg)	Stainless Steel	(15.7 x 14.4 x 6.6) inches / (399 x 366 x 168)mm
SSRL175G2	175ft (53m)	77.9 lbs (35kg)	Galvanized Steel	(15.7 x 14.4 x 7.8) inches / (399 x 366 x 198)mm
SSRL175S2	175ft (53m)	77.9 lbs (35kg)	Stainless Steel	(15.7 x 14.4 x 7.8) inches / (399 x 366 x 198)mm
Miller Rapid R	eplace Lifeline Kits	*		
SSRL50GRR	50ft (15m)	4.8 lbs (2.2kg)	Galvanized Steel	-
SSRL50SRR	50ft (15m)	4.8 lbs (2.2kg)	Stainless Steel	-
SSRL100GRR	100ft (30m)	8.4 lbs (3.5kg)	Galvanized Steel	-
SSRL100SRR	100ft (30m)	8.4 lbs (3.5kg)	Stainless Steel	-
SSRL130GRR	130ft (40m)	9.9 lbs (4.5kg)	Galvanized Steel	-
SSRL130SRR	130ft (40m)	9.9 lbs (4.5kg)	Stainless Steel	-
SSRL175GRR	175ft (53m)	12.9 lbs (5.9kg)	Galvanized Steel	-
SSRL175SRR	175ft (53m)	12.9 lbs (5.9kg)	Stainless Steel	-

 $<sup>^{\</sup>star}$ Include the cable assembly, a rubber plug, two shoulder screws, two entry guide screws, and two RFID clips)



#### MILLER MIGHTYLITE™ **SELF-RETRACTING LIFELINES**

Miller MightyLite Self-Retracting Lifelines (SRLs) are up to 30% lighter than competitive models in their class.

- Durable and dependable, corrosionresistant stainless steel and aluminum housing extend service life
- No annual factory recertification required
- Rated for up to a 310 lbs (140.6kg) worker
- Karabiner and tagline included\*
- Available in 20ft (6m), 30ft (9m), 50ft (15m), 65ft (20m), 100ft (30m), 130ft (40m) and 175ft (53m) lengths



SKU	DESCRIPTION	LENGTH	WEIGHT
RL20P-Z7/20FT	Polyester Webbing 1 Inch (25mm) w/Tagline & Karabiner	20ft (6m)	11 lbs (5.0kg)
RL20G-Z7/20FT	Galvanized Cable 0.2 Inch (5mm) w/Tagline & Karabiner	20ft (6m)	12 lbs (5.4kg)
RLS30G-Z7/30FT	Galvanized Cable 0.2 Inch (5mm) w/Tagline & Karabiner	30ft (9m)	14 lbs (6.4kg)
RL50G-Z7/50FT	Galvanized Cable 0.2 Inch (5mm) w/Tagline & Karabiner	50ft (15m)	22 lbs (10.0kg)
RL65G-Z7/65FT	Galvanized Cable 0.2 Inch (5mm) w/Tagline & Karabiner	65ft (20m)	30 lbs (10.4kg)
RL130G-Z7/130FT	Galvanized Cable 0.2 Inch (5mm) w/Tagline & Karabiner	130ft (40m)	56 lbs (25.4kg)
RL20SS-Z7/20FT	Stainless Steel Cable 0.2 Inch (5mm) w/Tagline & Karabiner	20ft (6m)	12 lbs (5.4kg)
RL50SS-Z7/50FT	Stainless Steel Cable 0.2 Inch (5mm) w/Tagline & Karabiner	50ft (15m)	21 lbs (9.5kg)

Also available with a stainless steel swivel top and stainless steel swivel snap hook. To order, add an "S" to corresponding model number (Ex: RL20SS-S/20FT). Note: Locking Snap Hook – 0.75 inch (19mm) gate opening; Locking Rebar Hook – 2.5 inches (64mm) gate opening. All connectors include 3,600 lbs gate-strength.

\* Available without the tagline and karabiner. To order, add a "B" to the corresponding model number (Ex: RL20BP/20FT).







## **LANYARDS**

#### MILLER MANYARD® II STRETCHABLE SHOCK-ABSORBING LANYARDS

- Manyard II Lanyards contract 6ft (1.8m) to 4ft (1.2m), 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 (140.6kg) and features a warning flag to indicate that it has arrested a fall



216M-Z7/6FTGN



231M-Z7/6FTGN



#### BEFORE AND AFTER DEPLOYMENT

Always know your fall distance and select proper equipment to meet the fall clearance. (See page 20 for details.)

REF.	MATERIAL	NUMBER OF LEGS	HARNESS CONNECTION	ANCHORAGE CONNECTION	SPECIAL FEATURES	STANDARD LENGTH*
231M-Z7/6FTGN	Webbing	Two	Locking Snap Hook	Locking Rebar Hooks	Warning Flag/Red Core Wear Indicator	6ft (1.8m)
232M-Z7/6FTGN	Webbing	Two	Locking Snap Hook	Locking Snap Hooks	Warning Flag/Red Core Wear Indicator	6ft (1.8m)

\*Available in lengths from 4ft (1.2m) to 10ft (3m). Locking Snap Hook – 0.75 inch (19mm) gate opening; Locking Rebar Hook – 2.5 inches (64mm) gate opening. All connectors include 3,600 lbs gate-strength.



#### MILLER STRETCHSTOP® **LANYARDS WITH SOFSTOP® SHOCK ABSORBER**

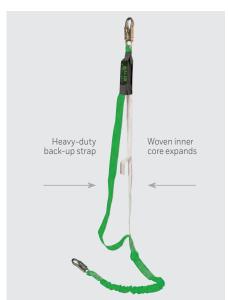
- StretchStop Lanyards contract 6ft (1.8m) to 4ft (1.2m), greatly reducing the chances of tripping, snagging, or dragging
- Includes a heavy-duty back-up safety strap
- SofStop Shock Absorber pack is designed with a specially-woven inner core that smoothly expands to reduce fall arrest forces











REF.	MATERIAL	NUMBER OF LEGS	HARNESS CONNECTION	ANCHORAGE CONNECTION	STANDARD LENGTH*
913SS-Z7/6FTGN	Webbing	One	Locking Snap Hook	Locking Snap Hook	6ft (1.8m)
913RSS-Z7/6FTGN	Webbing	One	Locking Snap Hook	Locking Rebar Hook	6ft (1.8m)
8798SS-Z7/6FTGN	Webbing	Two	Locking Snap Hook	Locking Snap Hook	6ft (1.8m)
8798RSS-Z7/6FTGN	Webbing	Two	Locking Snap Hook	Locking Rebar Hook	6ft (1.8m)

<sup>\*</sup>Available in lengths from 4ft (1.2m) to 10ft (3m). Locking Snap Hook – 0.75 inch (19mm) gate opening; Locking Rebar Hook – 2.5 inches (64mm) gate opening. All connectors include 3,600 lbs gate-strength.

#### **MILLER BACKBITER® TIE-BACK LANYARDS**

The innovative Miller BackBiter Tie-Back Lanyard with the Miller 5K® Snap Hook was designed from top to bottom for tie-back use.

- First snap hook with a 5,000 lbs (22kN) gate load capacity from any angle
- All-in-one lanyard with SofStop® Shock Absorber and cross-arm anchorage connector
- SofStop Shock Absorber pack is designed with a specially-woven inner core that smoothly expands to reduce fall arrest forces
- · Heavy-duty polyester webbing and Cordura® nylon webbing with five times more abrasion resistance







REF.	MATERIAL	NUMBER OF LEGS	HARNESS CONNECTION	ANCHORAGE CONNECTION	STANDARD LENGTH*
8798B/6FTGN	Webbing	Two	Locking Snap Hook	Locking 5K Snap Hooks	6ft (1.8m)

<sup>\*</sup> Locking Snap Hook – 0.75 inch (19mm) gate opening. Cordura is a registered trademark of E. I. DuPont. All connectors include 3,600 lbs gate-strength.







#### MILLER HP™ LANYARDS W/SOFSTOP® SHOCK ABSORBER

The Miller HP Lanyards are a collection of the most popular standard Miller brand lanyards with SofStop Shock Absorbers.

- SofStop Shock Absorber pack is designed with a specially-woven inner core that smoothly expands to reduce fall arrest forces
- Includes heavy-duty back-up safety strap





913TWLS-Z7/6FTGNC

8798TR-Z7/6FTGNC

REF.	MATERIAL	NUMBER OF LEGS	HARNESS CONNECTION	ANCHORAGE CONNECTION	STANDARD LENGTH*
913TWLS-Z7/6FTGN	Webbing	One	Locking Snap Hook	Locking Snap Hook	6ft (1.8m)
8798TR-Z7/6FTGN	Webbing	Two	Locking Snap Hook	Locking Rebar Hook	6ft (1.8m)

 $<sup>^\</sup>star$  Locking Snap Hook – 0.75 inch (19mm) gate opening; Aluminum models available upon request. All connectors include 3,600 lbs gate-strength.



## ROPE GRABS AND VERTICAL LIFELINES

#### **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 quickly.

- Compact design; corrosion-resistant stainless steel construction
- Lightweight and easy to use
- Rated to 310 lbs (140.6kg) capacity



REF.	DESCRIPTION
8174/U	Manual Rope Grab – Stainless steel for use with 5/8-in (16mm) or 3/4-in (19mm) synthetic rope
8175/U	Trailing Rope Grab – Stainless steel trailing rope grab for use with 5/8-in (16mm) rope
8175SLS-Z7/3FTYL	Trailing Rope Grab – 8175 w/SofStop shock absorber w/locking snap hook

<sup>\*</sup> Locking Snap Hook – 0.75 inch (19mm) gate opening.

#### **MILLER LIFELINES**

Synthetic rope lifeline with a minimum tensile strength of 5,000 lbs (22kN). Standard lifeline lengths are 25ft (7.6m), 50ft (15m), 75ft (23m), and 100ft (30m); additional lengths are available.



300L-Z7/100FTBL



8175SLS-Z7/3FTYL

REF.	DESCRIPTION
195R-2/100FTWH	Nylon Rope Lifeline w/Thimbles 5/8-in (16mm) Diameter, 100ft (30m)
300L-Z7/50FTBL	5/8-in (16mm) Diameter Copolymer Blend Rope w/Locking Snap Hook & Loop; 50ft (15m)
300L-Z7/75FTBL	5/8-in (16mm) Diameter Copolymer Blend Rope w/Locking Snap Hook & Loop; 75ft (23m)
300L-Z7/100FTBL	5/8-in (16mm) Diameter Copolymer Blend Rope w/Locking Snap Hook & Loop; 100ft (30m)







# MILLER DESCENT/RESCUE AND CONFINED SPACE

#### MILLER DURAHOIST™ PORTABLE CONFINED SPACE SYSTEMS

#### Complete Four-Piece Hoist/Winch

A modular system providing greater workplace flexibility and safety for confined space and rescue.

Miller® DuraHoist™ Confined Space Systems provide safe, lightweight and portable solutions for a variety of confined space applications including confined space entry, rescue, positioning and personnel/material handling.

Manufactured from powder-coated, corrosion resistant, high strength aluminium for easy handling and long service life. DuraHoist Complete Four-Piece Confined Space Systems consist of a One-Piece Adjustable Mast (DH-3/) and Three-Piece Portable Base (DH-4/).

#### 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 & BENEFITS:**

- System breaks down into four lightweight aluminum components for easy storage, transport and setup. No tools required for assembly
- Overall system height adjusts from 79 in. (2.01m) to 100 in. (2.54m)
- 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







#### **ONE-PIECE ADJUSTABLE MAST**







REF.	DESCRIPTION	WEIGHT
DH-1/	Four-Piece System with ManHandler Hoist/Winch w/65ft (20m) of 0.2 inch (5mm) Galvanized Steel Cable	133.5 lbs (60.6kg)
DH-3/	One-Piece Adjustable Mast Mast has 22kN maximum capacity fall arrest anchor point The height of the mast can be adjusted according to user's requirements	28.6 lbs (13.2kg)
DH-4/	Three-Piece Portable Base Base has a built-in level indicator Quick connect joins collapse easily facilitating easy transportation	60.1 lbs (27.7kg)

#### MILLER HOISTS/WINCHES AND MOUNTING BRACKETS

The Complete Mounting Bracket Assembly (DH-19-MILLER/) is required to mount a Miller ManHandler Hoist/Winch or a Miller MightEvac SRL to the DuraHoist Portable Confined Space System.







Miller MightEvac® Self-Retracting Lifeline w/Emergency Retrieval Hoist



REF.	DESCRIPTION	WEIGHT
DH-19-MILLER/	Complete Mounting Bracket Assembly	3.1 lbs. (1.4 kg)
DH-19/	Winch Mount Bracket	1.6 lbs. (0.73 kg)
DH-AB-MILLER/	Adapter Bracket for Miller MightEvac SRL (Requires a DH-19/ Bracket)	1.5 lbs. (0.68 kg)

All Miller brand fall protection products meet applicable OSHA, ANSI and CSA requirements.





#### **COMPONENTS**

 $\label{eq:components} A \ range \ of \ components \ on \ offer \ to \ tailor \ the \ Dura Hoist^{\tt m} \ System \ to \ suit \ your \ specific \ requirements.$ 



REF.	DESCRIPTION	WEIGHT
Base Options		
DH-5/	Barrel Mount Sleeve with .09m Opening, Zinc-plated, Mild Steel	16.3kg
DH-6/	Adjustable Barrel Mount Sleeve, Anodized Welded Aluminum with Zinc-plated Steel Hardware	25.4kg
DH-7ZP/	Floor Mount Sleeve, Zinc-plated, Mild Steel	5.9kg
DH-7SS/	Floor Mount Sleeve, 304 Stainless Steel	6.1kg
DH-8ZP/	Wall Mount Sleeve, Zinc-plated, Mild Steel	5.4kg
DH-8SS/	Wall Mount Sleeve, 304 Stainless Steel	5.9kg
DH-9SS/	Core Mount Sleeve, 304 Stainless Steel	3.6kg
DH-9ZP/	Core Mount Sleeve, Zinc-plated, Mild Steel	3.6kg
Manhole Collars	Manhole collars are available in sizes .44m to .70m	
DH-12/	Vehicle Hitch Mount Sleeve - 0.74m Offset	22.2kg
DH-25	Vehicle Hitch Mount Sleeve - 1.22m Offset Vehicle Hitch Mount Sleeve is designed to install into a .05m receiver on an attendant vehicle to provide a anchor point for confined space entry/retrieval, rescue and fall arrest applications	portable
DH-20ZP/	Flush Floor Mount Sleeve, Zinc-plated, Mild Steel	10.9kg
DH-20SS/	Flush Floor Mount Sleeve, 304 Stainless Steel	11.3kg
Mast Options		
DH-21/	0.30m to 0.74m Adjustable Offset Upper Mast Two Piece Upper Mast compatible with any two lower mast extensions not exceeding a combined height of 2.29m	10.4kg
DH-23	0.76m to 1.22m Adjustable Offset Upper Mast Two Piece Upper Mast compatible with any two lower mast extensions not exceeding a combined height of 1.98m	13.2kg
DH-22/21	0.53m Lower Mast Extension	6.4kg
DH-22/33	0.84m Lower Mast Extension	7.7kg
DH-22/45	1.14m Lower Mast Extension	9.1kg
DH-22/57	1.45m Lower Mast Extension	10.4kg
Accessories		
DH-13	Vehicle Hitch Mount 0.61m Extension, Zinc-plated	7.7kg
DH-14	Multi-Directional Bumper Receiver, Zinc-plated	3.9kg
DH-16	.05m Ball Hitch Adapter, Zinc-plated	8.6kg
DH-19	Winch Mount Bracket	0.73kg
DH-19- MILLER	Complete Mounting Bracket - for use with MightEvac and Manhandler Winches	1.4kg











DH-8ZP/ and SS

DH-20ZP/ and SS

Manhole Collar

DH-6/

DH-16













DH-7ZP/ and SS

DH-9ZP/ and SS

DH-13

DH-14

DH-19

DH-19-Miller®



## MILLER DURAHOIST™ PORTABLE FALL ARREST POST AND EXTENSION POST

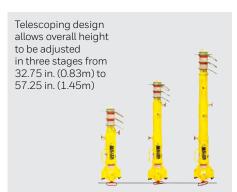
Provides three independent swivel tie-off points for fall arrest anchorage (three worker maximum in any configuration).

#### **Suggested Applications:**

Electrical transformers, leading edge deck work, confined space and rescue, industrial presses, bridge cranes, large cranes, and limited horizontal lifeline applications.

#### **FEATURES & BENEFITS:**

- Three-stage/four-position telescoping design and aluminum construction for easy transportation and set-up
- Leveling screws allow the system to be plumbed to vertical on inclines up to 15 degrees
- Portable and fixed bases allow for versatile usage





REF.	DESCRIPTION	WEIGHT
DH-AP-1/	Portable Fall Arrest Post	38 lbs. (17.2kg)
DH-AP-2/	14 inches (0.36m) Extension Post	4.5 lbs. (2.0kg)





#### MILLER DURAHOIST™ RESCUE/MATERIAL HANDLING DAVIT ARM

#### **FEATURES & BENEFITS:**

- Designed for rescue and material handling applications
- Quick-attach design assembles easily
- Lightweight aluminum construction makes davit arm easy to transport and set up



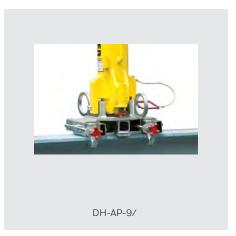




REF.	DESCRIPTION	WEIGHT
DH-AP-3/	Rescue/Material Handling Davit Arm	20.5 lbs (9.3kg)



#### MILLER DURAHOIST™ ANCHOR BASE AND ANCHOR PLATES





#### **Fixed Anchor Plates**

Designed to be permanently welded to existing structures in locations of frequent work, or where the use of a portable base is impractical. Plates for inclined surfaces (DH-AP-6/, DH-AP-7/) can be customized to your specific incline requirements up to a maximum of 45 degrees.



REF.	DESCRIPTION	
Portable Anchor Base and Anchor Plate		
DH-AP-9/	Portable I-Beam Anchor Base. Attached to Steel I-Beams.	
DH-AP-12/	Bolt-on Anchor Plate. For use in Concrete or Steel Applications (Portable or Permanent)	
Fixed Anchor Plates		
DH-AP-4/	Plate w/Tie-off Anchor	

## MILLER HOISTS/WINCHES AND MOUNTING BRACKETS













REF.	DESCRIPTION
DH-AP-8/	Flat Quick Mount Bracket
DH-AP-10/	Adapter Plate for Mounting DH-AB-Miller/ to DH-AP-3/
DH-AP-11/	Assembly of DH-AP-10/ and DH-AB-Miller/
DH-AB-DBI/	Adapter Bracket for DBI Winch

All Miller brand fall protection products meet applicable OSHA, ANSI and CSA requirements.







# MILLER MIGHTEVAC® SELF-RETRACTING LIFELINES WITH EMERGENCY RETRIEVAL HOIST

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

- 20% lighter than competitive models provides significant long-term savings and lowers cost of ownership
- Promotes quick and easy rescue with a 4:1 mechanical advantage (average speed of 25ft [8 m] per minute)
- For emergency evacuation only
- Corrosion-resistant stainless steel & aluminum components
- Convenient, heavy-duty carrying handle
- 310 lbs (140.6kg) working capacity

Available in galvanized or stainless steel cable in lengths of 50ft (15m), 100ft (30m) and 130ft (40m). Kevlar rope models available in lengths of 40ft (12m) MR40KB-Z7/40FT, and 80ft (24m) MR80KB-Z7/80FT.

REF.	DESCRIPTION	WEIGHT
MR50GB-Z7/50FT	MightEvac w/50ft (15m) of 0.2 inch (5mm) Galvanized Cable w/Mounting Bracket & Pulley	39 lbs (18kg)
MR100GB-Z7/100FT	MightEvac w/100ft (30m) of 0.2 inch (5mm) Galvanized Cable w/Mounting Bracket & Pulley	59 lbs (27kg)
MR50SB-Z7/50FT	MightEvac w/50ft (15m) of 0.2 inch (5mm) Stainless Steel Cable w/Mounting Bracket & Pulley	39 lbs (18kg)

Note: Locking Snap Hook - 0.75 inch (19mm) gate opening. All connectors include 3,600 lbs gate-strength.

## MILLER MANHANDLER® HOIST/WINCH

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

A secondary fall arrest system is recommended for fall protection.

- Compact, durable steel construction
- Smooth, controlled winding action
- Effortless lifting and lowering with 5:1 gear ratio
- Anti-backlash crank handle braking system prevents freewheeling
- Built-in mounting bracket
- 350 lbs (159kg) working capacity





REF.	DESCRIPTION
8442-Z7/65FT	ManHandler Hoist w/65ft (20m) of 0.2 inch (5mm) Galvanized Cable
8442-Z7/100FT	ManHandler Hoist w/100ft (33 m) of 0.2 inch (5mm) Galvanized Cable

\* Also available with stainless steel cable by adding "SS" after the model number (Ex: 8442SS-Z7/65FT). Note: Locking Snap Hook - 0.75 inch (19mm) gate opening. All connectors include 3,600 lbs gate-strength.



#### **MILLER TRIPOD**

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

- Available in 7ft (2m) and 9ft (2.7m) models
- High-strength aluminum construction
- Withstands up to 5,000 lbs (22kN) of vertical pull
- Adjustable legs with integral push pins, ideal for uneven surfaces
- Independent leg locking feature holds legs securely in place
- Safety chain and tripod feet with rubber skid pads and serrated edge prevent slippage in icy conditions
- Includes reflective tape



REF.	DESCRIPTION	
51/7FT	7ft (2m) High-Strength Aluminum Tripod	
51X/9FT	9ft (2.7m) High-Strength Aluminum Tripod	





#### MILLER QUICKPICK™ RESCUE KITS

Miller QuickPick™ Rescue Kits deliver peace of mind during unexpected, stressful peer-rescue situations. The rescuer can remotely attach the system to the suspended worker while remaining securely anchored on the walking/working surface. All rescue components are contained in one easy-to-store kit with no assembly necessary — only requiring an overhead anchorage.

- Out-of-the-bag solution for prompt rescue no assembly required
- Quickly raise or lower a fallen worker to safety – avoid suspension trauma
- Professional rescue solution enhances worker safety and corporate rescue plan
- Simplified Rescue Systems –
   Premium or Standard Kit choices

#### **Premium QuickPick Rescue Kits**

- Best choice for users whose job does not normally include rescue
- Includes a Backup Braking System that acts as a secondary fall protection device.
- Highly efficient hauling system with a 5:1 lifting ratio, making heavier loads easier to lift
- Complies with OSHA and ANSI including the stringent ANSI Z359.4
- Safety Requirements for Assisted
- Rescue and Self-Rescue Systems
- Rated for up to a 400 lbs (181.4kg)

#### Standard QuickPick Rescue Kits

- Designed for users more experienced with rescue
- Provides an economical kit configuration for conducting rescue with workers who are confident in managing rescue systems
- Efficient hauling system with a 4:1 lifting ratio, making heavier loads easier to lift
- Complies with OSHA and ANSI A10.32
- Rated for up to a 310 lbs (140.6kg) user





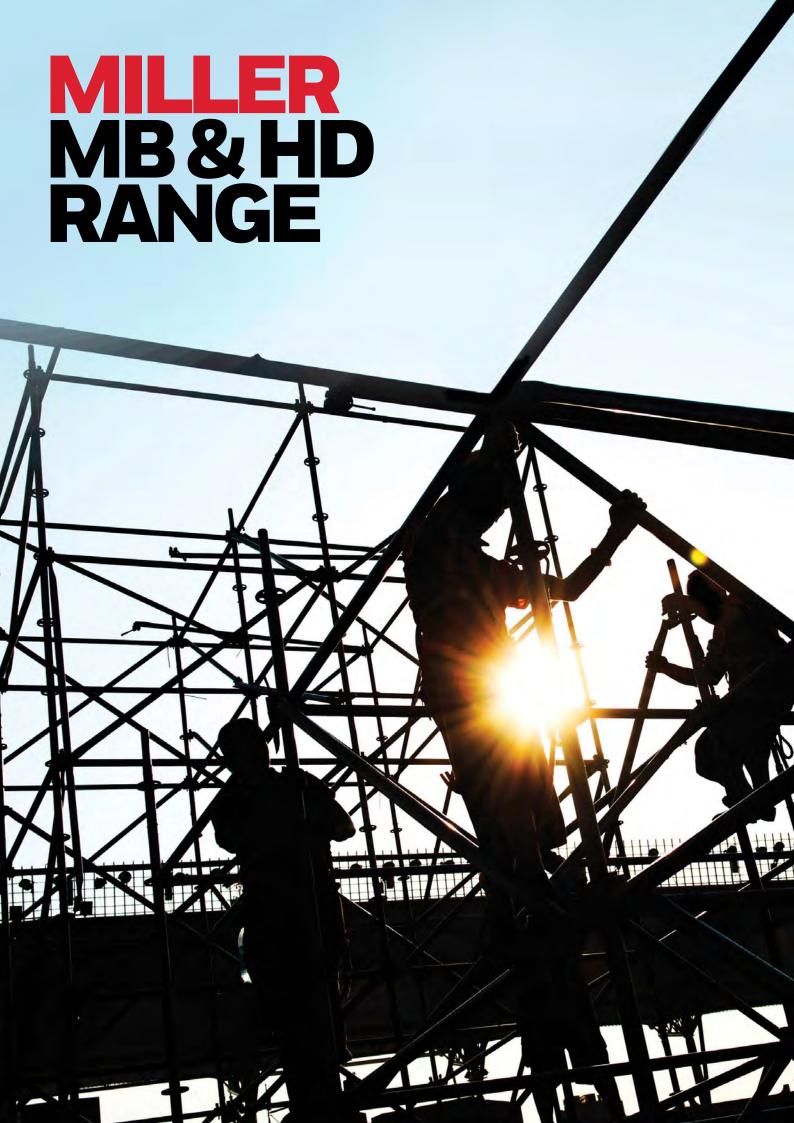


REF.	DESCRIPTION	MAXIMUM CAPACITY	WEIGHT			
Premium Kits*						
QP/25FT	25ft (7.6m) Working Length System	400 lbs (181.4 kg)	22.9 lbs (10.3kg)			
QP/50FT	50ft (15m) Working Length System	400 lbs (181.4 kg)	30.4 lbs (13.7kg)			
QP/75FT	75ft (22.9m) Working Length System	400 lbs (181.4 kg)	37.9 lbs (117.1kg)			
QP/100FT	100ft (30m) Working Length System	400 lbs (181.4 kg) 45.4 lbs (20.5kg)				
Standard Kits*						
QP-1/25FT	25ft (7.6m) Working Length System	310 lbs (140.6kg)	17.6 lbs (7.9kg)			
QP-1/50FT	50ft (15m) Working Length System	310 lbs (140.6kg)	25.1 lbs (11.3kg)			
QP-1/75FT	75ft (22.9m) Working Length System	310 lbs (140.6kg)	32.6 lbs (14.7kg)			
QP-1/100FT	100ft (30m) Working Length System	310 lbs (140.6kg)	40.1 lbs (18.1kg)			
Components						
QP-EP	12ft (3.7m) Rescue Pole with Karabiner Clip, Karabiner, Pigtail, Miller WristBandit™ Tool Lanyard and Bag	NA	5.7 lbs (2.5kg)			
QP-SC	Replacement Karabiner Clip	NA	0.1 lbs (0.04kg)			
QP-RHA	Rope Control Handle	400 lbs (181.4kg)	0.5 lbs (0.2kg)			

<sup>\*</sup> Premium Kits - Include backup braking system, pulleys, rope, rescue pole with clip, pigtail rope control handle, karabiners, and cross-arm anchorage connector, Miller WristBandit™ Tool Lanyard, kit bag and pole bag.

<sup>\*</sup> Standard Kits - Include pulleys, rope, rescue pole with clip, pigtail rope control handle, karabiners, and cross-arm anchorage connector, Miller Wrist Bandit™ Tool Lanyard, kit bag and pole bag.









## MILLER MB FULL BODY SAFETY HARNESS



Designed to provide your team with superior protection, Honeywell Miller MB Full Body Safety Harness provides the mobility with optimum comfort for long periods of use. It has a lightweight anticorrosion dachrotized steel single rear dorsal D-ring, a cushioned back pad, and a durable and adjustable polyamide webbing strap that perfectly fits ASEAN sizes.





#### **FEATURES & BENEFITS**

- Lightweight, high corrosion resistance dachrotized steel single fall arrest dorsal D-ring and matting buckles.
- · Comfortable cushioned back pad.
- Durable 44mm polyamide webbing strap.
- One-size-fits-all, for ASEAN sizes S, M & L.
- Easy-to-wear harness.
- 3 adjustment points Pass-thru buckles on chest and leg straps.
- Yellow and black colored strap for greater visibility from a distance and in dark environments.
- · Maximum working load up to 100kg.



#### **CERTIFICATIONS**

- EN 361:2002
- Singapore PSB SS528: Part 6: 2006
- Malavsia SIRIM



#### **APPLICATION**

Suitable for fall arrest application in construction industry and for general works at height.

REF.	DESCRIPTION	WEIGHT	UОМ
MB9000	Full Body Harness, 1 Back D-Ring	750g	PC



## MILLER MB ENERGY ABSORBING LANYARD ROPE

Highly resistant, durable, lightweight – offers optimal protection and better comfort in case of fall.

#### **FEATURES & BENEFITS**

- Lightweight, anti-corrosion dachrotized steel connectors: double-lock scaffold hook, large opening 52mm; autotwist locking carabiner, opening 17mm.
- Durable polyester rope Ø 12mm, static strength > 22kN.
- Energy Absorber, high resistant 32mm polyamide double-layer tearing webbing.
- · Maximum arresting force of 6kN.



#### **CERTIFICATIONS**

- EN 355:2004
- Singapore PSB SS528: Part 6: 2006
- Malavsia SIRIM



#### **APPLICATION**

Suitable for fall arrest application in construction industry and for general works at height.







MB 9007

REF.	DESCRIPTION	CONNECTORS	WEIGHT		
MB9006	Single Tail Lanyard Rope	1 Double-lock Scaffold Hook, 1 Auto-twist Locking Karabiner	850g		
MB9007	Twin Tails Lanyard Rope	1 Double-lock Scaffold Hook, 2 Auto-twist Locking Karabiner	1.79kg		







# MILLER HD 2 PTS HARNESS

The new Honeywell Miller <sup>®</sup> HD 2 Pts Harness is designed to offer you the comfort and convenience you need to do your job confidently. When using it together with Honeywell Miller <sup>®</sup> HD Shock-Absorbing Lanyard, they provide you exceptional safety and comfort in the case of a fall.



#### **CERTIFICATIONS**

- EN 361 Safety Harness
- JIST 8165:2018



#### **APPLICATION**

- Suitable for Fall Arrest, Frontal Climbing, and Confined Space descending/ascending application
- In Oil&Gas, Maintenance, Food & Beverage, Construction, Telecommunication, Tower Works

#### **FEATURES & BENEFITS**

#### **Comfort and Freedom of Movement**

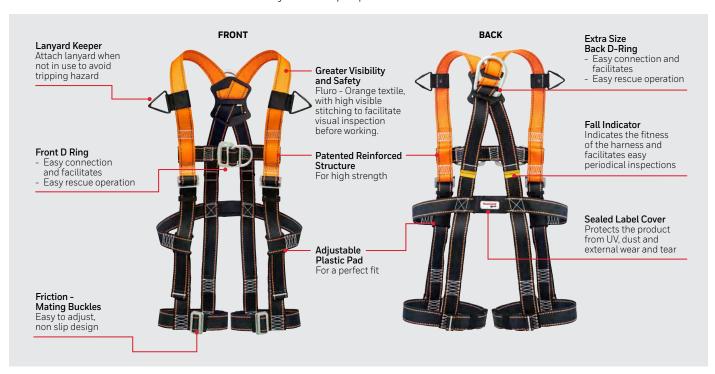
- Exclusive H-Architecture of the harness, thanks to its ergonomically placed webbing, providing a total freedom of movement for the arms.
- Horizontal leg straps preventing uncomfortable friction on the legs and on the groin v/s traditional leg straps increasing comfort for the user during work.

## Easy and Quick Adjustability & Connection

- Easy to access and adjust buckles: Intuitive movement up to down.
- Very accessible anchor points:
   Front D-Ring and Extra Size Back
   D-Ring for rescue operations.
- Front D-ring for Frontal Ladder
- Adjustable torso strap with matting buckles for a perfect fit in height.
- Adjustable leg straps with mating buckles.
- · Easy front strap clip.

### Greater Safety and Easier Traceability

- Fluro Orange textile, high visible stitching, back fall indicators to facilitate visual inspection before working.
- Sealed labels improving yearly checking follow-up for a better traceability.
- Fall Indicator feature for better and easy visual periodical inspection.



REF.	SIZE	FRONT D-RING	BACK D-RING	FALL INDICATOR	CHEST STRAP BUCKLES	TORSO STRAP BUCKLES	LEG STRAP BUCKLES	LANYARD HANGING RINGS	WEIGHT
FPSEAEH10001S/M	SMALL - MEDIUM	Van	Vaa	Vaa	Mating	Mating	Matina	Vaa	1 21.0
FPSEAEH10001L/XL	LARGE - XL	Yes	Yes	Yes	Mating	Mating	Mating	Yes	1.3kg



## MILLER HD SHOCK ABSORBING LANYARD NEW

Pack-Type Shock-Absorbing Lanyards include the shock-absorber pack as an integral part of a standard lanyard. In the event of a fall, the pack expands, reducing fall forces while a back-up safety strap deploys for added fall protection.

Shock Absorber pack is designed with a specially-woven inner core that smoothly expands reducing fall arrest forces.

Karabiner

Screw lock galvanized

steel 17mm opening



Shock Absorber

Heated treated shrink packed transparent cover shock absorber



Auto lock galvanized steel 53mm opening scaffolding hooks

#### Polyester Webbing

New vibrant Hi-Viz 45mm webbing to avoid entanglements

#### Product Label

UV protected labels which withstands hard environmental conditions







#### **CERTIFICATIONS**

- EN 355
- JIST 8165:2018



#### **APPLICATION**

- Suitable for Fall Arrest, Frontal Climbing, and Confined Space descending/ascending application
- In Oil&Gas, Maintenance, Food & Beverage, Construction, Telecommunication, Tower Works

REF.	NUMBER OF LEGS	MIN. CLEARANCE TO LANYARD	KARABINER GATE OPENING	HARNESS CONNECTION	HOOK GATE OPENING	ANCHORAGE CONNECTION	WEBBING MATERIAL	HARDWARE MATERIAL	LENGTH	WEIGHT
FP81LTW1.7R	2	6.2m	17mm	Karabiner	53mm	Rebar Hooks	Polyester	Steel	1.7m	1.7kg







# **ENGINEERED SOLUTIONS**

#### Söll GlideLoc® System

The Söll GlideLoc\* Safe Climbing system includes fall protection ladders, guide rails, and guided type fall arresters. System accessories such as entry and exit devices, roof ascent or shaft entry equipment make it possible to design a system that is not only appropriate for the structure of the building or installation, but which also satisfies the very highest safety requirements with 100% connection to offset ladders with intermediate platforms.

These fall protection and anchorage devices are used in:

- Telecommunications
- Radio and TV masts
- Construction
- Power supply and hydro-electric installations
- Wind power facilities
- Chimney and industrial plants
- Buildings and facades
- Petrochemical plants
- On-shore and off-shore oil rigs
- Ship-building
- Crane installations
- Shafts and manholes
- Aircraft hangars and for loading/unloading vehicles

#### Söll MultiRail System

Söll MultiRail is a rail-based horizontal anchorage device that is EN 795 - Class D Compliant. Shuttles follow the user along the rail smoothly and when used in conjunction with the rail they provide security when working at height.

Söll MultiRail can be installed along the entire falling zone. They offer the advantage of greater fixing spans and higher number of simultaneous users compared with other rail systems.

#### Söll Xenon Horizontal LifeLine

The Söll Xenon Horizontal Lifeline is an anchorage device incorporating a flexible wire cable. The principal components of the system are: shuttles, shock absorbers, intermediate anchors and end anchors.

The Söll Xenon Horizontal LifeLine System can provide the perfect safety solution for installation, maintenance and cleaning work at height. It can be used in industrial plants, on roofs, on cranes and over vehicles where horizontal access is required. All key components are made from high-quality stainless steel.

#### Söll Vi-Go Vertical Arrest System

Söll Vi-Go is a fall protection system that can be retrofitted onto existing climbing devices such as ladders or rungs used in wind turbines, telecommunication or other industries with on-site ladders.

The Söll Vi-Go System consisting of steel cable (three different types), fastening elements and a revolutionary guided type fall arrester provides a safe and cost effective solution for ladder safety.

The Söll Vi-Go shuttle is quick and easy to use, offering single handed operation and features a built-in energy absorber.

#### \* On the following pages we present the various systems for protecting against falls, their components and their areas of application in more detail. Most approved systems look good on paper, and achieve an acceptable level of safety, but there are important differences in design and application. To be sure you choose the best system you need to evaluate the features, function, ease of use, durability, maintenance, time, cost and long term value.

#### **STANDARDS & SAFETY**

Söll GlideLoc®, Söll Xenon and Söll MultiRail Systems, offer permanent solutions for vertical climbing and horizontal access. Söll GlideLoc® Systems conform to EN353-1 and Söll MultiRail and Söll Xenon Systems conform to EN 795 Class C.

Part 3 of AS/NZS 1981 stipulates the acceptance of using material supplied from overseas that complies with EN 353-1, EN 353-2, and EN 360, in Australia and New Zealand.

Part 4 of the AS/NZS 1891 Standard covers the general requirements and recommendations for safe working at heights. This part of the AS/NZS standard also outlines the need for a 12 month inspection interval for all vertical and horizontal lifelines and rail systems. It also indicates the need for inspection on all fall arrest devices used in conjunction with the system.

#### **Safety First**

International design, safety standards and regulations require employers and designers to consider the avoidance or reduction of a foreseeable risk to any person working at height.

From engineering through to construction and tower management, a permanent height access system allows for heavy usage, year after year with minimal maintenance, while offering increased safety and improving user comfort. There are a large number of rules and regulations which oblige companies to take suitable protective measures against falls (health and safety rules, workplace regulations, work association rules and regulations, etc.). Equipment preventing people from falling must be present at all workplaces and on walkways at which there is a risk of falling from heights of more than 2 metres.

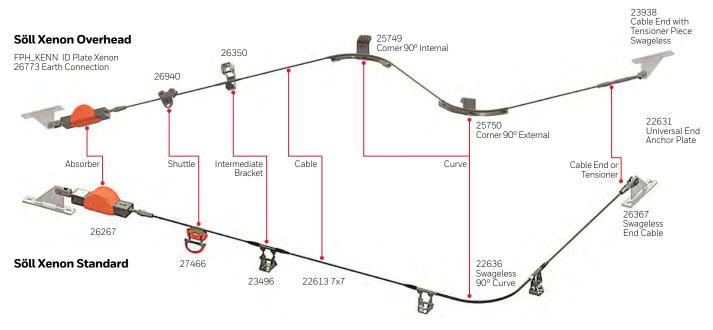




The Söll Xenon horizontal lifeline system is a high quality, durable system made of corrosion resistant stainless steel and is ideally suitable for working on crane runways, loading bays and roofs.

- The system doubles as an anchorage point to easily rescue fallen workers ensuring that structural damage is prevented.
- The system incorporates a unique, state-of-the-art shock absorber which uses patented Miller® "forcedispersal technology" to provide fall protection for up to seven workers across a maximum span of 20m depending on the line configuration.
- The system is the perfect safety solution for installation work, maintenance or cleaning and can be used on crane runways, in loading bays and on roofs. It is a robust system that can be used in environments ranging from -50 degrees centigrade to +120 degrees centigrade.
- The Söll Xenon System is an anchorage device comprising of 8mm steel cable, shuttles, shock absorbers, intermediate anchors and end anchors.
- It is a low-cost, easy to install and durable solution.







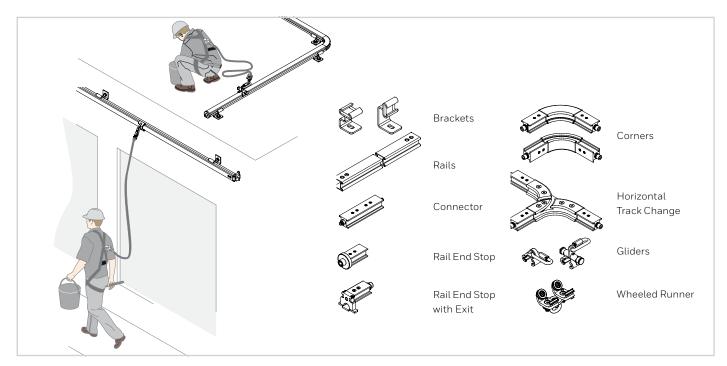
# SÖLL MULTIRAIL

Söll MultiRail can be installed along the entire unprotected work area offering greater safety.

While anchorage points restrict the users ability to the length of the lanyard, Söll MultiRail provides the advantage of greater fixing distances (up to 6m) and can be used by up to 6 workers simultaneously.

- The system allows installation at foot level, wall or overhead and is available with three different types of gliders to suit any application.
- Söll MultiRail is easy to install with minimal components. A floating rail design allows for thermal expansion and minimum impact transmission to the structure in the event of a fall.
- Pre-constructed corner sections allow the system to be easily customised to a structure.
- Made from stainless steel the ultra robust Söll MultiRail is suited to the toughest environmental conditions and is now also available in aluminium.







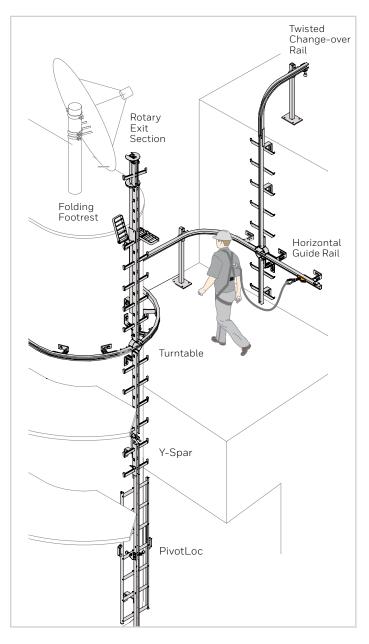






Söll GlideLoc® vertical height access ladder systems provide an innovative solution for vertical climbing that is easy-to-use, requires minimal maintenance and provides superior safety.

- Kits are available in aluminium, galvanised or stainless steel construction with a wide range of components to suit various applications. The "do-it-yourself" kits are easy to order and install.
- The easy-climb Söll GlideLoc  $^{\circ}$  System allows safe hands-free climbing that ultimately increases worker mobility, safety and productivity. Engineered for smooth operation to ascend or









Söll Vi-Go is a fall protection system that can be retrofitted onto existing climbing devices such as ladders or rungs. It is designed for use in wind turbines, power supply, telecommunication, utilities, oil rigs, shafts and manholes.

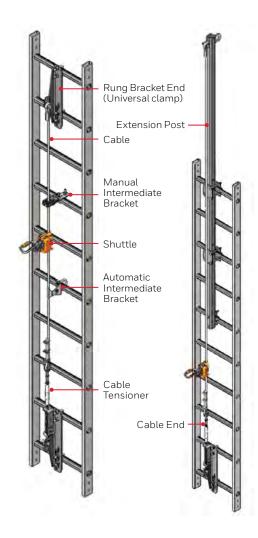
Made up of a steel rope or cable, fastening elements and a revolutionary guided-type fall arrestor the system can support up to 8 workers.

#### Versatile System

- Uniquely designed cable sleeve automatically bypasses intermediate cable guides keeping both hands free for climbing. It travels smoothly along the cable and locks instantly in the event of a fall.
- Easy one handed operation for attachment and detachment from the system.

#### **Stainless Steel Or Galvanised Steel**

 Furthermore, the selection of system components made of galvanised or stainless steel can help in cutting costs or adapting the system to severe environmental conditions.



REF.	DESCRIPTION			
Vi-Go Galvanized				
FPH_27826	Vi-Go Shuttle with Standard Karabiner			
FPH_26554	Vi-Go Heavy Duty Tensioner Galvanized Steel			
FPH_25001	Universal Rung Bracket Galvanized (1017384)			
FPH_25051	Platform Support Extension Post			
FPH_24843	8mm Cable Galvanized (M)			
FPH_24840	Vi-Go Automatic Intermediate Bracket 8mm Cable (1017375)			
FPH_24851	Vi-Go Cable Swageless End 8mm			
FPH_KENN	ID Plate Vi-Go English w/RFID			
Vi-Go Stainless Steel				
FPH_27826	Vi-Go Shuttle			
FPH_25401	Vi-Go Heavy Duty Tensioner Stainless Steel			
FPH_25002	Vi-Go Universal Rung Bracket Stainless Steel			
FPH_25846	Vi-Go Platform Support w/ey Anchor Stainless Steel (extension)			
FPH_24841	Vi-Go Cable Stainless Steel 8mm			
FPH_24840	Vi-Go Automatic Intermediate Bracket			
FPH_24851	Vi-Go Cable End Swage			
FPH_KENN	ID Plate w/RFID			





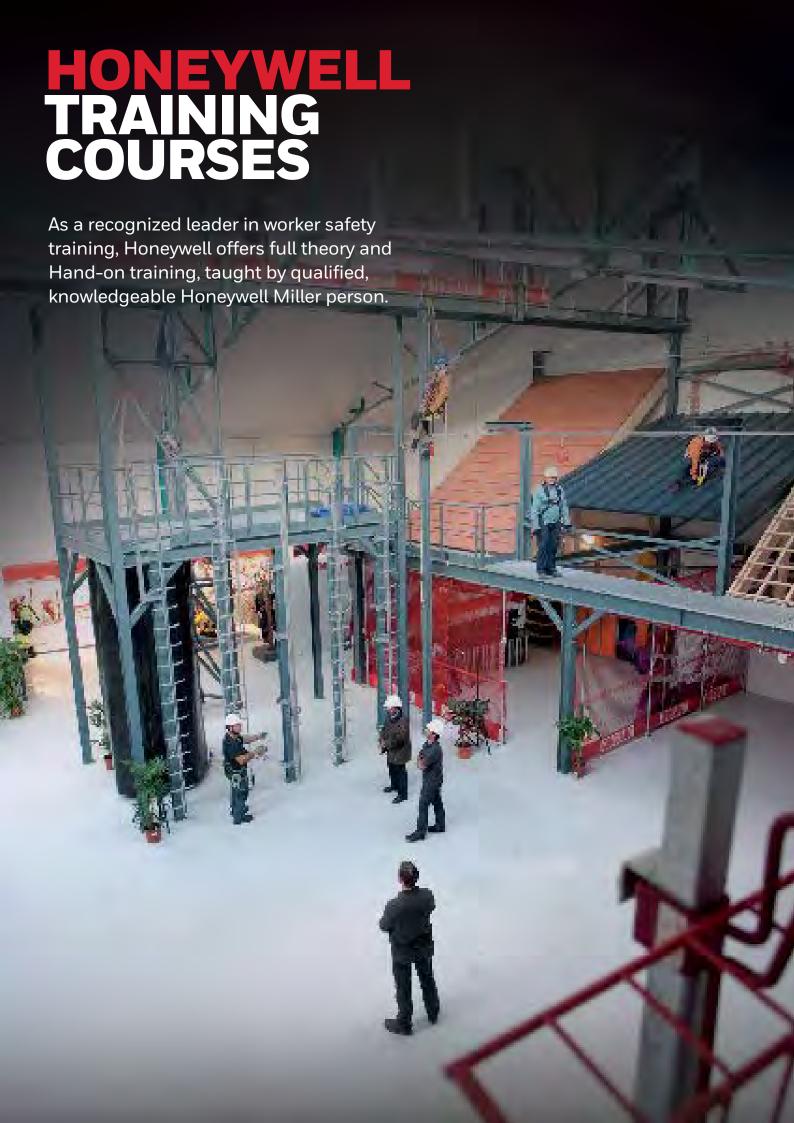




#### Söll Vi-Go: Shuttle

- True single hand operation quick & easy to use
- Smooth & silent sliding no hand support required
- Double action for unlocking
- Spring operated self locking
- Miss use prevention upside down is impossible safe & secure
- Integrated self locking karabiner safe connection to harness
- Each shuttle is equipped with a shock absorber
- Effective shock in case of fall is reduced under 6 kN each user is protected
- Integrated fall-indicator easy to inspect
- Made out of high grade stainless steel and aluminium long life with no corrosion
- Very low maintenance required
- Easy to repair reduced costs







# MAKE WORKING AT HEIGHT THE SAFEST PLACE ON EARTH

Every day workers at height across ASEAN expose themselves to the greatest single cause of fatalities in industry - falls. Employers must provide training for employees who work in high risk environments.

#### **HONEYWELL IS PROUD TO** OFFER FALL PROTECTION AND **RESCUE TRAINING COURSES** THAT WILL INSTRUCT YOUR **EMPLOYEES TO WORK SMARTER, SAFER, AND MORE EFFICIENTLY EVERY DAY.**

Our safety experts implement behaviorbased programs that enable efficient organizational learning and adoption of best practices.

#### What do we teach?

Honeywell "Fall Protection" and "Rescue at height" training courses are designed for all workers at height, supervisors, and safety managers. The courses are for workers in varied applications or environments, such as oil and gas, construction and mining or teaching access and rescue skills that can be used generically for many different industries.

#### Who will deliver the course?

Courses are delivered by the Honeywell team of industrial safety trainers and fall protection professionals. All instructors are experts with in-depth knowledge of height safety and rescue techniques coupled with a firm understanding of industrial needs.

#### Where are the courses delivered?

Courses are primarily delivered onsite with practical exercises designed to meet your site requirements. We can also deliver courses at our Honeywell training facility located in ASEAN countries

#### **Pre-course requirements**

Most courses contain a practice part at height. Delegates on practical courses must be medically fit to complete the training.

#### **Course safety**

Your safety is paramount. Risk assessments will be provided and all practical training is conducted under close supervision of the instructor. All rescue training is carried out using an additional safety rope or a mannequin for your security.

#### Personal fall protection equipment

Our training uses the Honeywell Safety Products product range. Please indicate if you wish to use your own equipment at the time of booking. Note: all equipment must have been inspected by a competent person and in case of doubt on an equipment, our trainer will provide an equivalent in our range.

















TRAI	NING	
COU	RSES	
۸۱/۸۱	LARIE	

### MILLER FALL PROTECTION COMPETENT PERSON TRAINING

This three-day course is designed for facility and site supervisors who must also serve as the competent person required by OSHA 1926.32(f), 1926.500 and 1910 standards.

Participants are assigned tasks which require evaluation for fall hazards. The tasks are described using real-life site photos.

The training provides more detailed coverage of the Fall Prevention & Protection. The course also supplies the participant with the knowledge and skills to perform the annual inspection and record keeping.

MILLER FALL PROTECTION ENGINEERING SYSTEM CERTIFIED INSTALLER TRAINING

Specialized training course that trains one to be a certified Honeywell Miller Fall Protection Engineering System Installer.

After the training, the certified installer will be able to supply an installation in compliance with the recommendations of the manufacturer. He or She will have better understanding on vertical and horizontal system, and the role of each of the components.

Nevertheless, this person will be able to train the others in the organization on the same.

The Honeywell Miller Fall Protection

 Understanding Vertical system and its application, and hands-on design

Understanding Horizontal system and

its applications, and hands-on design

Engineering System Product

MILLER FALL PROTECTION SELF-RETRACTING LIFELINES (SRL) INSPECTION & REPAIR TRAINING

This course is designed for individuals who need to inspect and repair the Honeywell Miller products as listed.

A detailed methodology and essential steps that help on inspection and evaluating the potential repairs required on each product will be covered in this training.

#### DURATION

DESCRIPTION

#### 3 Days

# Overview of Fall Prevention and Protection

- The Need for Fall Protection
- Fall Protection Standards: Thai Regulation, ANSI, EN
- Hazard Analysis
- Recognition of Hazards
- Evaluation Criteria
- Control Measures

#### Fall Prevention vs. Protection

- General Principles of Fall Protection
- Fall Clearance Calculations
- Total Fall Distance Calculations
- Minimizing Fall Forces (Live Demonstrations)

# Personal Fall Arrest Systems (Hands-on-Exercises)

- Inspection Procedures
- Donning Procedures
- Fit Test
- Selection, Application and Care of Equipment

## Fall Protection on Aerial Lifts and Ladders Rescue

- Fall Victim
- First On The Scene
- Self-rescue and Assisted Self-Rescue

# Fall Hazard Task Evaluation (Exercise Requiring Hazard Analysis)

# Competent Person Inspection (Hands-on Practical) Products include ABCD and Rescue

- products:Harness, Lanyard, SRL,
- Tripod, Durahoist, Safescape,
- Temporary Lifelines

#### 3 Days

- Understanding the below products and methodology to inspect and repair on products:
- Falcon Cable & Falcon Webbing
- MightyLite & MightEvac
- Removable Anchorage Point
- Durahoist Family (Hoist/Winch)
- Safescape

# PROGRAM

TOPICS

#### Engineering products include:

Vi-Go

3 Days

Application

session on system

session on system

Software training

- Xenon
- Multirail
- Glidelock & GuideLoc
- GlideLoc Ladders
- Shockfusion



 ۰
٠
٠
٠
 ٠
 ٠

#### For more information

www.honeywellsafety.com

#### Honeywell Industrial Safety Malaysia (Asia Pacific Headquarters)

Level 25, UOA Corporate Tower Lobby B, The Vertical, Bangsar South City 59200 Kuala Lumpur, Malaysia Tel: +603-2777 3948 / 3950 Email: hsp.asean@Honeywell.com

#### Singapore

17 Changi Business Park Central 1 Singapore 486073 Tel: +65-6714 6800

#### Indonesia

Menara Prima 24th Floor Unit E-H Jl. DR. Ide Anak Agung Gde Agung Blok 6-2, Kawasan Mega Kuningan Jakarta 12950 Tel: +62-21 2964 0328

#### Dhilinnings

25F The Curve, 32nd St Cor 3rd Ave Bonifacio Global City Taguig City 1634, Metro Manila Philippines Tel: +632-730 7300

#### Thailand

252/121 25th Floor Muang Thai-Phatra Office Tower Il Ratchadapisek Road, Huay Khwang Bangkok 10320 Thailand Tel: +66 2 693 3099

#### Vietnam

Unit 11, 5th Floor, Crescent Plaza 105 Ton Dat Tien, Dist. 7 Ho Chi Minh City, Vietnam Tel: +8428 5411 2260 THE FUTURE IS WHAT WE MAKE IT

