

3M™ Fall Protection  
Fall Protection Catalog



Making safety  
our priority for life

The power to protect your world.™





Falls to a lower level are one of the top four leading causes of death at work in the U.S.\* Nobody understands the need for safety more than 3M. For more than 40 years, we've been developing personal safety protection products for global use across multiple industries. Our innovation, ambition and drive toward excellence have made us an industry leader in safety. When it comes to fall protection, 3M products have been researched, designed and developed to provide safe and secure solutions for those who work at height. When you put yourself at height, put yourself in the hands of 3M.

\* U.S. Department of Labor, Bureau of Labor Statistics, in cooperation with state, New York City, District of Columbia and federal agencies. *Census of Fatal Occupational Injuries*, September 19, 2012.

PROTECTING WORKERS  
FOR MORE THAN

40 YEARS

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Our core items, noted by the  symbol, are our best selling items. They are in stock and in demand.



Your  
committed partner  
in worker safety.

## The demands of your job put you at risk — every day.

Even the most careful and focused worker is subject to the kind of danger that could change a life forever. At 3M, the demand of our job is to help make sure your safety precautions meet the highest standards. That's why we've made it simple to equip your workers with the best in fall protection. Our fall protection products have been thoroughly researched, designed, developed and tested. We not only help provide you with safe and secure solutions for your workers, we give you the confidence to get the job done.

Yet fall protection isn't just about having the best equipment — it's also about using the equipment properly. Along with our full line of 3M™ Fall Protection products designed for seamless integration, we offer training classes and other tools to help ensure proper equipment and implementation.

Providing the most dependable fall protection support for you and your workers isn't just a goal, it's a 3M mission.

### TRAINING AND SUPPORT

In accordance with the requirements of OSHA, employers are responsible for ensuring all employees are properly trained to safely use the appropriate fall protection system and its components. At 3M, we offer training classes and tools to help promote safety on every work site. For registration and course information requests, email [3MFallProtectionTraining@mmm.com](mailto:3MFallProtectionTraining@mmm.com).

### On-Site Demonstrations

Using our fall protection demonstration drop trailers, the 3M team comes directly to you, ready to emphasize the importance of using compliant fall arrest equipment to ensure top-line education and results. The goal is to make it easy for you to help enhance safety awareness for large numbers of workers — and to feel confident that crucial information has been absorbed.



# FUNDAMENTALS OF FALL PROTECTION

Effective fall protection is more than one product — it's a team of products working together.

## FALL PROTECTION IS AS EASY AS A, B, C & D

The first four letters of the alphabet help us understand the components of fall protection. A is for anchorage, B is for body support, C is the connector that joins the two. D stands for the descent and rescue plan that must be on-site for each job.

## B BODY SUPPORT

provides a personal connection point and distributes fall force across the entire body.

**Full Body Harnesses** are used to distribute fall arrest forces across the shoulders, upper thighs, chest, and pelvis. They feature a center back fall arrest attachment (dorsal D-ring) for clipping to the fall arrest connector and may have other D-rings for use in worker positioning, travel restraint, retrieval or ladder climbing. They are the only form of bodywear acceptable for fall arrest and should be selected based on the job task as well as the work environment.

**Body Belts** circle the waist and are used for worker positioning and travel restraint. While they are used in conjunction with a full body harness, they must NEVER be used for personal fall arrest.

## D DESCENT AND RESCUE DEVICES

retrieve an injured worker and lower him/her to the ground.

Users must have a rescue plan that either provides the prompt rescue of employees in the event of a fall or ensures that employees are able to rescue themselves.

## A ANCHORAGE CONNECTORS

offer secure attachment to your location.

**Anchorage connectors**, as defined by OSHA, are secure points of attachment for lifelines, lanyards or deceleration devices and are designed to hold fast under the forces generated during a fall. Anchorage connectors vary by industry, job, type of installation and structure.

- An anchorage connector may be a beam anchor, hook anchor, cross-arm strap, D-bolt, tripod, davit or other secure device that serves as a point of attachment.
- Anchorages and anchorage connectors must be independent and capable of supporting 5,000 lbs. per worker attached, or they may be designed, installed and used under the supervision of a qualified person as part of a complete personal fall arrest system that maintains a safety factor of at least two times maximum arresting force. They must also be located high enough for a worker to avoid contact with a lower level should a fall occur.

## C CONNECTORS

provide the lifeline between body harness and anchorage connector.

**Connectors** attach the worker's harness to the anchorage connector. Types will vary depending on whether the worker needs connecting for either of the following:

- **Personal Fall Arrest**  
This connector is often a lanyard equipped with an energy-absorbing element to reduce the force transmitted to the user's body in the event of a fall.
- **Positioning and Travel Restriction**  
This connector is usually a simple lanyard intended to reduce the potential for entering a fall hazard zone or for free falling from a distance of less than 2 feet.

# Harness the power of confidence to get the job done.

When it comes to fall protection equipment, a full body harness is one of the most important choices you can make. 3M™ Fall Protection Harnesses offer high-end durability, maximum movement and easy-to-wear comfort, all while providing a system component designed and tested to meet the rigorous requirements of OSHA regulations and ANSI Z359 standards. Select products also certified to CSA Z259 standards. With a harness for nearly every task, 3M is committed to delivering you carefully-crafted, innovatively-designed gear to help keep you productive and safe.



## CONSIDERATIONS FOR CHOOSING A FULL BODY HARNESS:

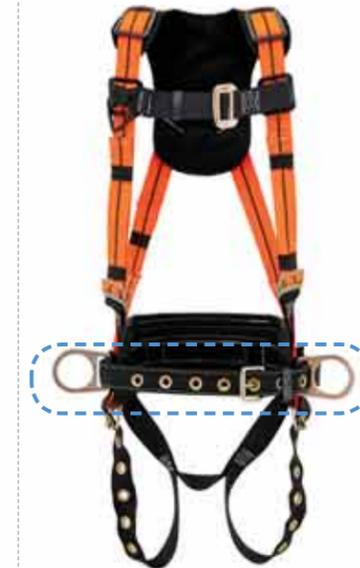
### ▪ WHAT TYPE OF WORK WILL YOU BE DOING?



**General Fall Arrest**  
The back D-ring is for fall arrest. Included on all harnesses.



**Ladder Climbing**  
A front attachment point is the distinguishing factor of these harnesses, enabling connection to permanent ladder systems.



**Work Positioning & Travel Restraint**  
Positioning D-rings located on the hips are used with positioning lanyards and allow workers to use both hands.



**Retrieval**  
An attachment point located on each shoulder strap is used in retrieval operations such as a confined space.

### ▪ WHAT TYPE OF HARDWARE CONNECTIONS DO YOU PREFER?

A variety of hardware options are available, including quick connect or pass thru buckles for chest, and quick connect, pass thru, or grommet for legs.



### ▪ HARNESS FAMILY OVERVIEW

#### Benefits vs. Price

Our family of 3M™ Fall Protection Harnesses offers a variety of features and benefits to fit your needs as well as your price range. To help you choose the right harness, use this chart to align your budget with desired features and benefits.



# FULL BODY HARNESSSES | HARNESS LINE OVERVIEW |

To meet your specific environmental requirements and safety needs, 3M offers a variety of harnesses — each with its own unique properties and benefits. Choose from our Elavation™, Ameba, Feather, SafeLight and Specialty harnesses designed and tested to help keep you productive and protected, no matter the situation.



## ELAVATION™

The premium fall arrest harness

- Advanced design allows for ease of adjustment and a more comfortable fit
- Premium padding is breathable and durable
- Web keepers and lanyard keepers help reduce potential entanglement hazards
- Fall arrest indicators clearly show when product has been involved in a fall and needs to be removed from service
- Rubber protective shield for label pack
- All sizes rated to 400 lbs.



## AMEBA

The upper mid-range fall arrest harness

- Webbing designed to flex with wearer for nonbinding comfort
- Soft mesh back pad for more comfortable wear
- Web keepers and lanyard keepers help reduce potential entanglement hazards
- Fall arrest indicator clearly shows when product has been involved in a fall and needs to be removed from service
- Laminate helps protect label
- Universal, S-M, L-XL rated to 310 lbs., and XXL rated to 400 lbs.



## FEATHER

The lower mid-range classic fall arrest harness

- Features an X-plate D-ring assembly designed to help reduce tangles for easier donning
- Web keepers and lanyard keepers help reduce potential entanglement hazards
- Fall arrest indicator clearly shows when product has been involved in a fall and needs to be removed from service
- Laminate helps protect label
- Universal, S-M, L-XL rated to 310 lbs., and XXL rated to 400 lbs.



## SAFELIGHT

The entry-level fall arrest harness

- Provides performance at exceptional value
- Lightweight design may help to improve worker comfort
- Web keepers and lanyard keepers help reduce potential entanglement hazards
- Fall arrest indicator clearly shows when product has been involved in a fall and needs to be removed from service
- Universal, XS, S-M, L-XL rated to 310 lbs., and XXL rated to 400 lbs.

FULL BODY HARNESSSES

## Special Purpose Harnesses (featured on pages 36–41)

**SATURN** | designed for high-heat applications

**APACHE** | constructed for workers with a 311 lbs.–400 lbs. working weight

**VEST HARNESS** | harness with integrated bright color safety vest with 3M™ Scotchlite™ reflective material

**WIND ENERGY HARNESS** | designed for climbing applications

**ENERGY HARNESS** | 3M™ Elavation™ harness with padded seat sling

**TOWER CLIMBING HARNESS** | lightweight, flexible design for tower and other extensive climbing applications

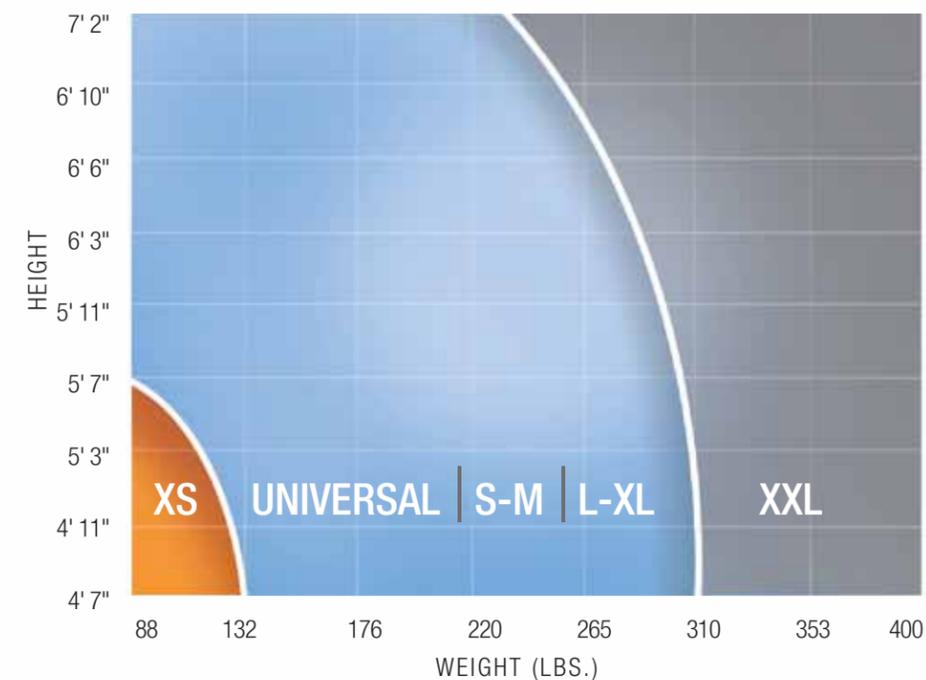
**SPECIALTY HARNESS** | manufactured with PVC sleeves to cover all metal hardware

**COATED HARNESS** | polyurethane coating helps to protect webbing in extreme environments such as tar, oil and paint applications

**OMEGA HARNESS** | designed with webbing for those in contact with steel, concrete or abrasive surfaces

**PERSONAL RESCUE DEVICE HARNESS** | Latchways Personal Rescue Device™ PRD™ with 3M™ Elavation™ Harness

## CHOOSING THE SIZE OF YOUR HARNESS



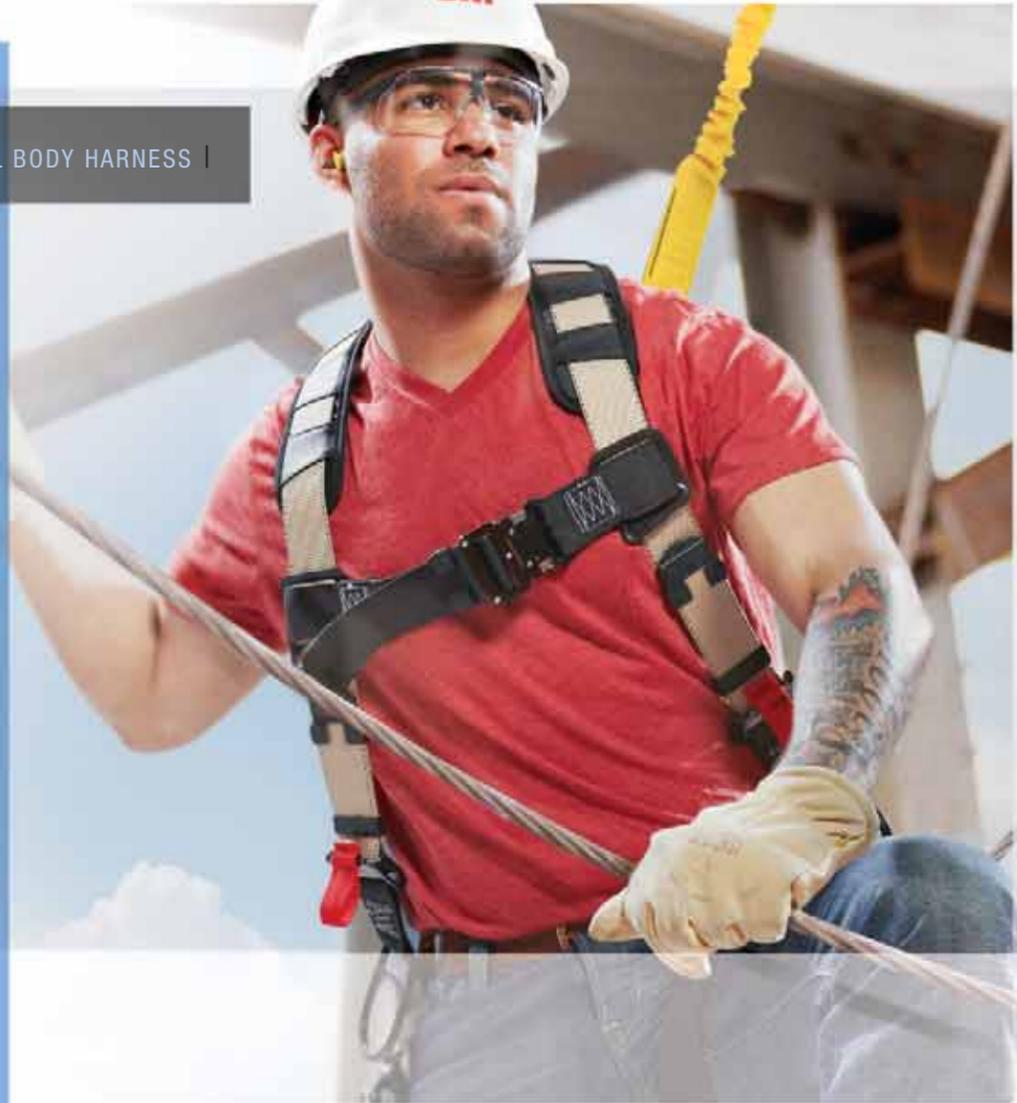
Consider total working weight including clothing, tools, etc., and need for a tool belt:

- Up to 310 lbs. — XS, Universal, S-M and L-XL
- Up to 400 lbs. — XXL, Elavation™ Series or Apache
- With tool belt — select size based on waist measurement:  
**S-M** = 34 inches–47 inches  
**L-XL** = 44 inches–57 inches  
**XXL** = 49 inches–62 inches

When your life is at risk,  
reward yourself with security.

**ELAVATION™** | PREMIUM FULL BODY HARNESS |

The advanced design features in our Elavation™ harness help make fitting, adjusting, and wearing this fall arrest harness easier and more comfortable. From quick connect buckles to grommet leg straps or additional D-rings, we offer a variety of hardware configurations to suit your needs. Comfort padding is breathable and durable to help promote airflow while wicking away moisture. Potential entanglement hazards are minimized thanks to integrated web keepers and lanyard keepers that hold excess material out of the way. With long-lasting strength and premium features, Elavation harnesses rise above.



**ADVANCED DESIGN AND COMFORT**

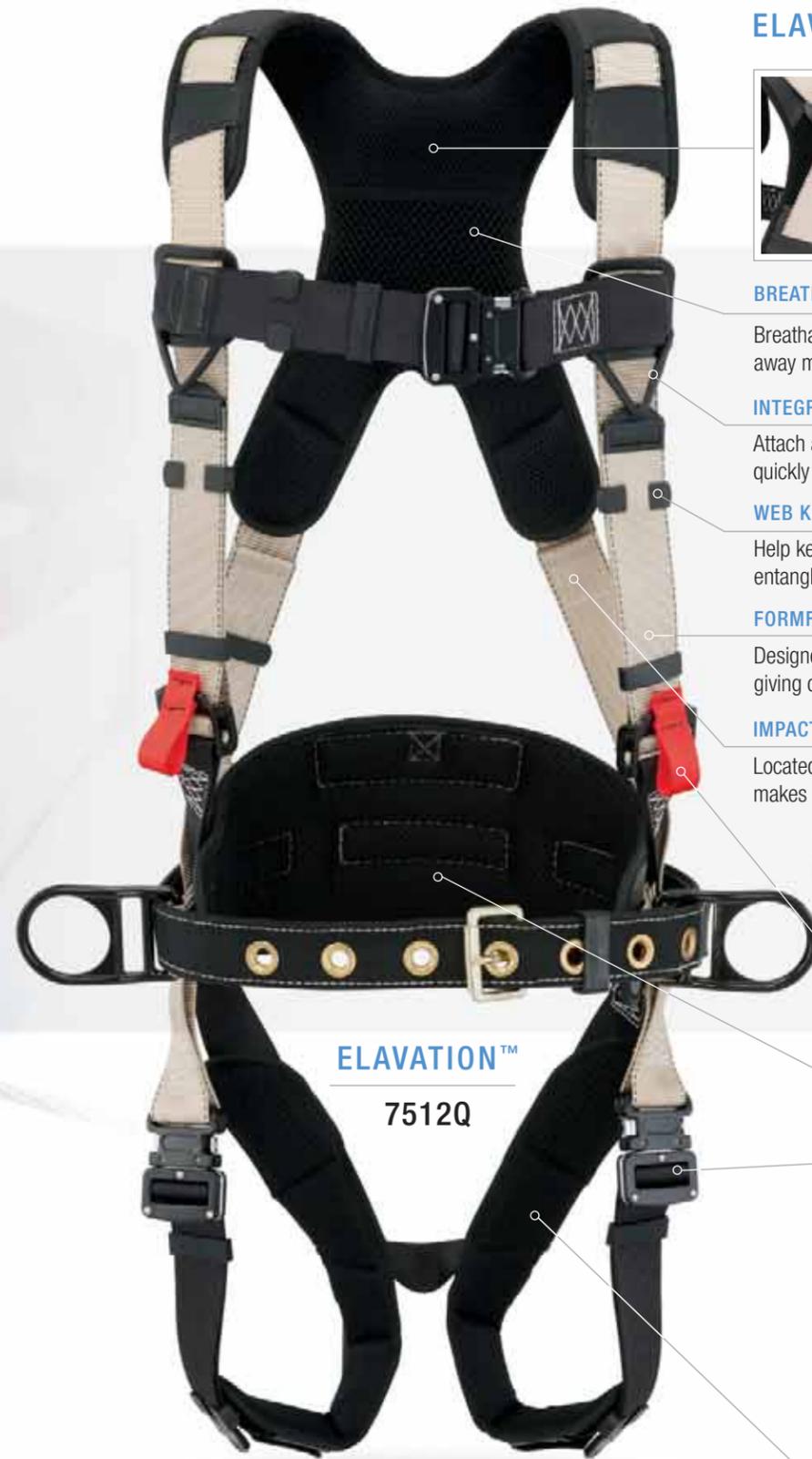
Innovative design makes fitting, adjusting, and wearing the harness easier and more comfortable.

**DURABLE MATERIALS**

Long-lasting materials designed to meet the everyday challenges of your work environment.

**MULTIPLE CONFIGURATIONS**

A full range of harness configurations ensure the right harness choice for the application or industry in which you work — construction, wind energy, oil and gas, and more.



**ELAVATION™**  
7512Q

**CustomLogo**

▪ AVAILABLE ON ALL ELAVATION™ HARNESSES ▪  
See page 35 for more info.

**ELAVATION™ HARNESS FEATURES**



**DORSAL CONNECTION**  
Dorsal D-ring for fast, secure connections. Optional D-ring extension is available for even easier access to the back D-ring.

**BREATHABLE PADDING**

Breathable and durable fabric allows airflow and wicks away moisture for extended comfort.

**INTEGRATED LANYARD KEEPER**

Attach and detach snap or rebar hooks of connecting device quickly while preventing dangerous tangles and snags.

**WEB KEEPERS**

Help keep excess webbing in place and reduce entanglement hazards.

**FORMFIT WEBBING**

Designed to mold to the wearer's body, giving comfortable support.

**IMPACT INDICATORS**

Located below the back D-ring, makes inspection quick and simple.



**LABEL PACK COVER**

Helps protect labels from the environment.

**TORSO ADJUSTERS**

For improved fit and comfort, red pull tabs provide easier adjustment when wearing gloves.

**PADDED TOOLBELT**

Comfortable support for positioning applications.

**CONNECTORS**

The following connector options are available on Elavation harnesses:



**GROMMET**  
(for leg only)



**QUICK CONNECT**  
(for chest and leg)

**PADDED LEG STRAPS**

Padded leg and pelvic support.

FULL BODY HARNESSES

Choose the harness configuration with features that best fit your application or industry needs.



Sample Elavation Harness Configurations

GENERAL FALL ARREST

**7510Q**   
Elavation™   
Premium Fall Protection Harness

Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Back D-ring. Protective covers for label pack, lanyard keepers, and web keepers.

- General Fall Arrest
- S-M | L-XL | XXL
- 400 lbs. capacity

WORK POSITIONING & FALL RESTRAINT

**7511Q**   
Elavation™   
Premium Fall Protection Harness

Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection, Back and Side D-rings. Protective covers for label pack, lanyard keepers, and web keepers.

- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M | L-XL | XXL
- 400 lbs. capacity

LADDER CLIMBING

**7552FQ**   
Elavation™   
Premium Fall Protection Harness

Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front, Back and Side D-rings with padded positioning belt with toolbelt holder. Protective covers for label pack, lanyard keepers and web keepers.

- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M | L-XL | XXL
- 400 lbs. capacity

RETRIEVAL

**7514FQ**   
Elavation™   
Premium Fall Protection Harness

Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Front, Back, Side and Shoulder D-rings. Protective covers for label pack, lanyard keepers and web keepers.

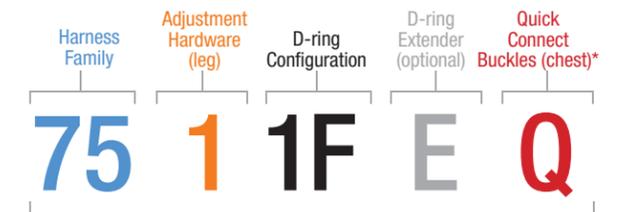
- Retrieval
- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M | L-XL | XXL
- 400 lbs. capacity

ELAVATION™ HARNESS ORDERING GUIDE

Build your harness by creating a product code in 5 steps.

Each harness option is designated with a code. Choose the harness family, leg and chest hardware and D-ring configuration, and add an optional D-ring extender or Quick Connect Buckle chest connection hardware. The combination of these codes creates a product code for ordering your harness with desired options.

EXAMPLE:



Your product code: **7511FEQ**

Your harness description: Elavation™ harnesses with Quick Connect leg connection hardware, back, front and side D-rings, a D-ring extender and Quick Connect chest buckles.

- Choose a Harness Family  
Every harness family has a code. This code is the first entry in your product code.  
**75 = Elavation™ Harnesses**
- Choose Hardware for the Leg Connection  
Choose preferred hardware. This code is the second entry in your product code.  
**1 = Quick Connect Leg Connection Hardware**  
**5 = Grommet Leg Connection Hardware**
- Choose a D-ring Configuration  
The chart below shows D-ring options. Choose the code for the desired configuration. This determines the next entry in your product code.

D-RING OPTIONS	Back	Front	Side	Shoulder	Padded Positioning Belt
0	■				
0F	■	■			
1	■		■		
1F	■	■	■		
2	■		■		■
2F	■	■	■		■
3F	■	■		■	
4F	■	■	■	■	

- If you want to add a D-ring extender, add an "E" to the product code for "Extender."
- \*All Elavation harnesses come with Quick Connect chest connection. Add a "Q" at the end of the product code.

**CORE ITEM** Our best selling equipment — in stock and in demand.

The images shown above represent a variety of our harness configurations to fit a variety of applications or industry needs. A full list of harnesses, by family, follows each section.

ELAVATION™ | PREMIUM FULL BODY HARNESES

	Product No.	Size	Description
7510	7510Q 	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Back D-ring
	7510EQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Back D-ring with 11 in. D-ring extension
	7510FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Front and Back D-rings
	7510FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Front and Back D-rings with 11 in. D-ring extension
7511	7511Q 	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Side and Back D-rings
	7511EQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Side and Back D-rings with 11 in. D-ring extension
	7511FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Side, Front and Back D-rings
	7511FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Side, Front and Back D-rings with 11 in. D-ring extension
7512	7512Q 	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Side and Back D-rings and padded positioning belt with toolbelt holder
	7512EQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection, Side and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
	7512FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection, Side, Front and Back D-rings and padded positioning belt with toolbelt holder
	7512FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection, Side, Front and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
	7512FB	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection, Side, Front, and Back D-rings and padded positioning belt with extended belt D-ring and toolbelt holder
7513	7513FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings
	7513FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension
7514	7514FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Shoulder, Side, Front and Back D-rings
	7514FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Quick Connect Leg Connection and Shoulder, Side, Front and Back D-rings with 11 in. D-ring extension
7550	7550Q	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Back D-ring
	7550EQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Back D-ring with 11 in. D-ring extension
	7550FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-rings
	7550FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-rings with 11 in. D-ring extension
7551	7551Q	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings
	7551EQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings with 11 in. D-ring extension
	7551FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings
	7551FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings with 11 in. D-ring extension

ELAVATION™ | PREMIUM FULL BODY HARNESES

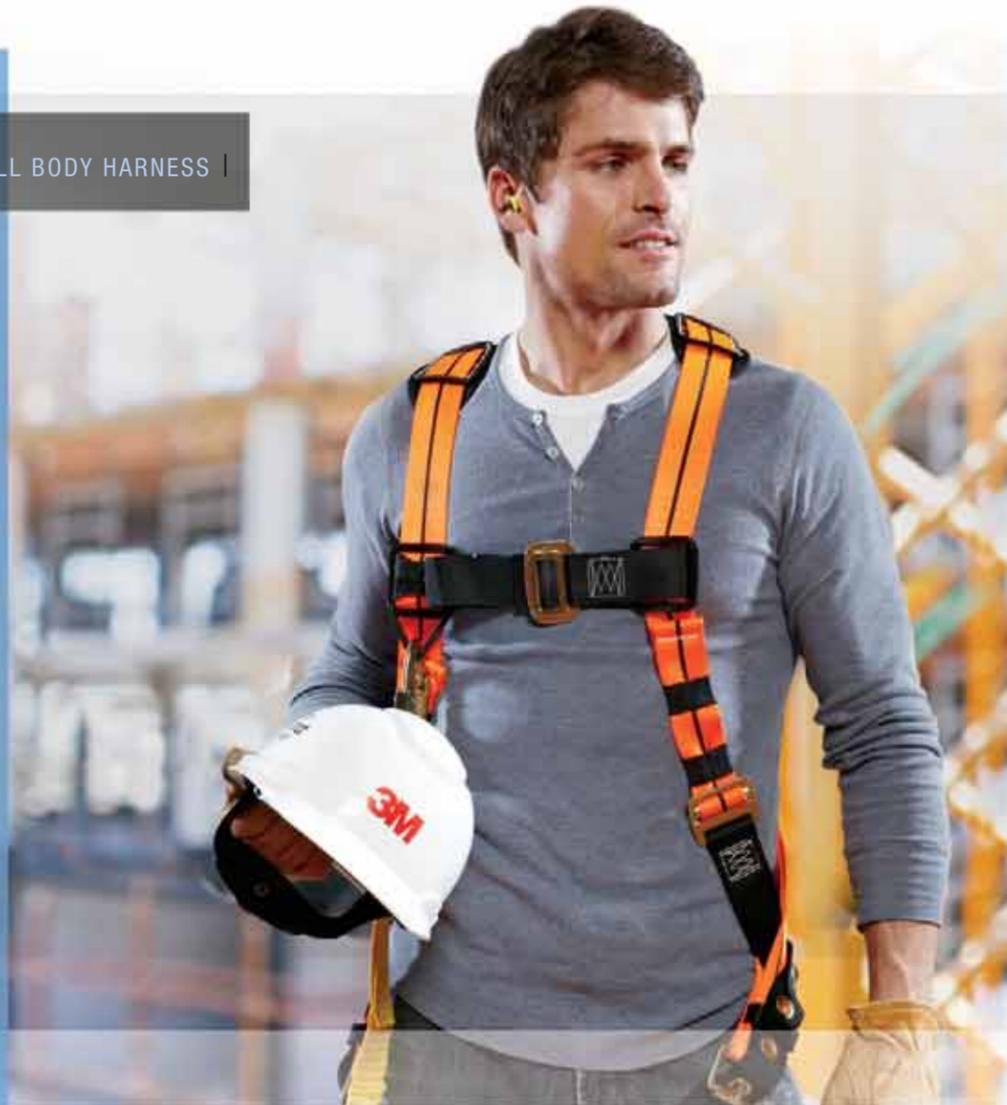
	Product No.	Size	Description
7552	7552Q 	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder
	7552EQ	S, M, L, XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection, Side and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
	7552FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings and padded positioning belt with toolbelt holder
	7552FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
7553	7553FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Shoulder, Front and Back D-rings
	7553FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension
7554	7554FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Shoulder, Side, Front and Back D-rings
	7554FEQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Shoulder, Side, Front and Back D-rings with 11 in. D-ring extension



# The protection you need, the comfort you want

## AMEBA | UPPER MID-RANGE FULL BODY HARNESS |

The Ameba harness features a webbing uniquely designed to flex and bend with the wearer for non-binding comfort. Unlike harnesses that feature elastic blend webbing, the Ameba harness maintains its shape and integrity over time. Its soft mesh backpad helps wick moisture away from the body for a cooler, more comfortable experience. Potential entanglement hazards are minimized thanks to integrated web keepers and lanyard keepers designed to hold excess material out of the way. This is an exceptional mid-range harness for a greater range of mobility.



### ADVANCED DESIGN AND COMFORT

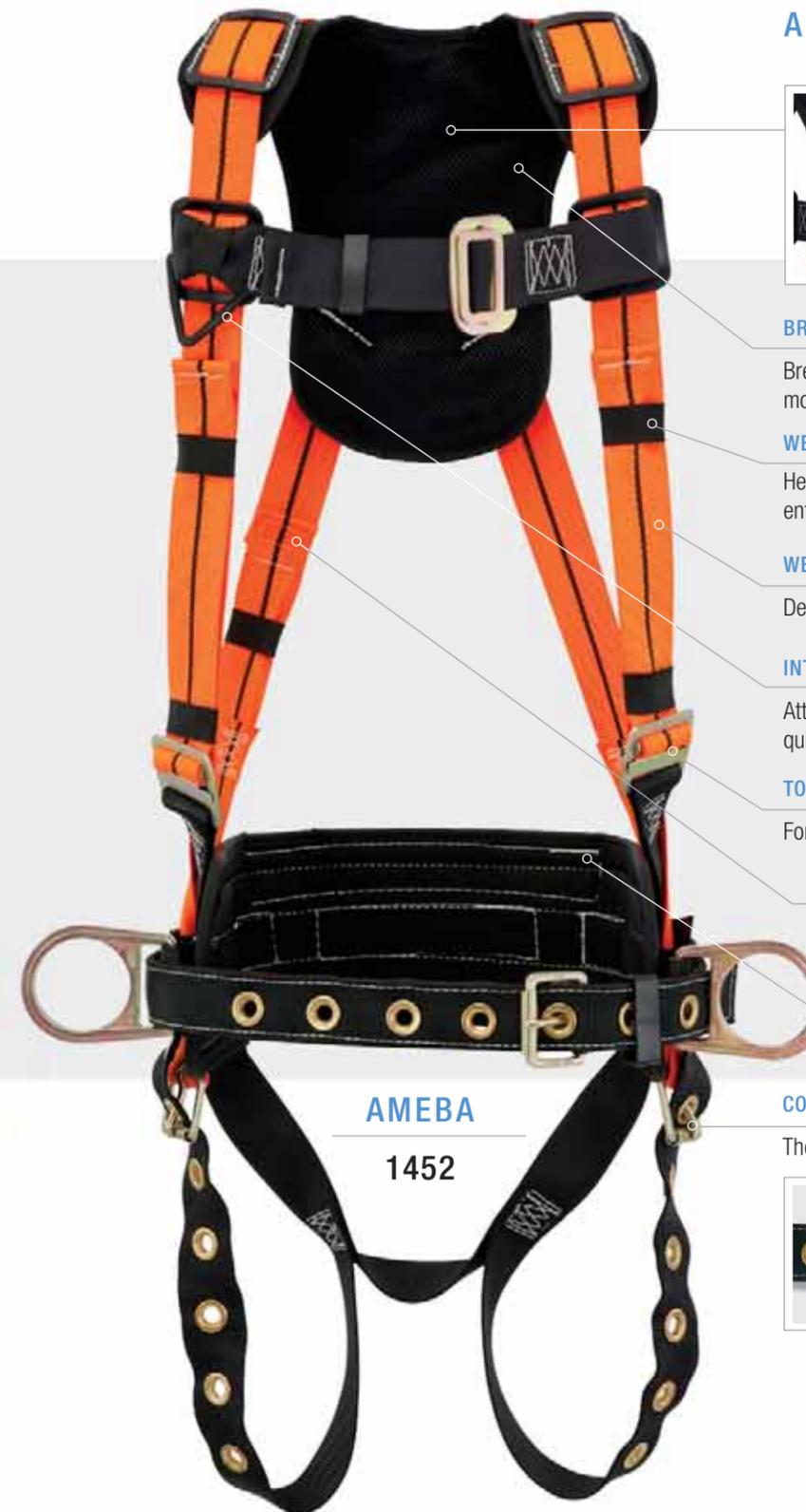
Non-elastic webbing conforms to the wearer, yet maintains its shape for ultimate comfort throughout the day.

### DURABLE MATERIALS

Engineered and built using quality materials designed to endure the many effects of day-to-day use.

### MULTIPLE CONFIGURATIONS

Features full range of harness configurations to ensure the right choice of appropriate harness for the application or industry — construction, wind energy, oil and gas, and more.



AMEBA  
1452

## AMEBA HARNESS FEATURES



**DORSAL CONNECTION**  
Dorsal D-ring for fast, secure connections. Optional D-ring extension is available for even easier access to the back D-ring.

### BREATHABLE PADDING

Breathable mesh backpad allows airflow and wicks away moisture for extended comfort.

### WEB KEEPERS

Help keep excess webbing in place and reduce entanglement hazards.

### WEBBING

Designed to flex with wearer for nonbinding comfort.

### INTEGRATED LANYARD KEEPER

Attach and detach snap or rebar hooks of connecting device quickly while preventing dangerous tangles and snags.

### TORSO ADJUSTERS

For improved fit and comfort.

### IMPACT INDICATORS

Promote safety and makes inspection quick and simple.

### PADDED TOOLBELT

Comfortable support for positioning applications.



### CONNECTORS

The following connector options are available on Ameba harnesses:



GROMMET  
(for leg only)



PASS THRU  
(for chest or leg)



QUICK CONNECT  
(for chest or leg)

CustomLogo

▪ AVAILABLE ON ALL AMEBA HARNESSSES ▪  
See page 35 for more info.

Choose the harness configuration with features that best fit your application or industry needs.



Sample Ameba Harness Configurations



**1450** ★  
**Ameba Upper Mid-range Fall Protection Harness**

Comfort Harness with Pass Thru Chest Connection, Grommet Leg Connection and Back D-ring. Lanyard keepers and web keepers.

- General Fall Arrest
- Universal Size | 310 lbs. capacity
- XXL | 400 lbs. capacity



**1452** ★  
**Ameba Upper Mid-range Fall Protection Harness**

Pass Thru Chest Connection, Grommet Leg Connection and Back and Side D-rings with Backpad and Toolbelt. Lanyard keepers and web keepers.

- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M | 310 lbs. capacity
- L-XL | 310 lbs. capacity
- XXL | 400 lbs. capacity



**1452FE**  
**Ameba Upper Mid-range Fall Protection Harness**

Pass Thru Chest Connection, Grommet Leg Connection, Front, Back and Side D-rings with 11 in. D-ring Extender and Padded Positioning Belt with Toolbelt Holder. Lanyard keepers and web keepers.

- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M | 310 lbs. capacity
- L-XL | 310 lbs. capacity
- XXL | 400 lbs. capacity



**1453F**  
**Ameba Upper Mid-range Fall Protection Harness**

Comfort Harness with Pass Thru Chest Connection, Grommet Leg Connection and Front, Back and Shoulder D-rings. Lanyard keepers and web keepers.

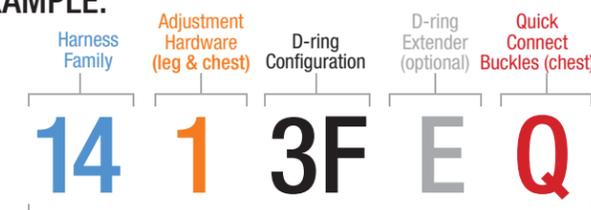
- Retrieval
- Ladder Climbing
- General Fall Arrest
- Universal Size | 310 lbs. capacity
- XXL | 400 lbs. capacity

AMEBA HARNESS ORDERING GUIDE

Build your harness by creating a product code in 5 steps.

Each harness option is designated by a code. Choose the harness family, leg and chest hardware and D-ring configuration, and add an optional D-ring extender or Quick Connect Buckle chest connection hardware. The combination of these codes creates a product code for ordering your harness with desired options.

EXAMPLE:



Your product code: **1413FEQ**

Your harness description: Ameba harnesses with Quick Connect leg connection hardware, back, front and shoulder D-rings, a D-ring extender and Quick Connect chest buckles.

- Choose a Harness Family  
Every harness family has a code. This code is the first entry in your product code.  
**14 = Ameba Harnesses**
- Choose Hardware for Leg and Chest Connections  
Choose preferred hardware. This code is the second entry in your product code.  
**1 = Pass Thru Leg and Chest Connection Hardware**  
**5 = Grommet Leg Connection, Pass Thru Chest Hardware**
- Choose a D-ring Configuration  
The chart below shows D-ring options. Choose the code for the desired configuration. This determines the next entry in your product code.

D-RING OPTIONS	Back	Front	Side	Shoulder	Padded Positioning Belt
0	■				
0F	■	■			
1	■		■		
1F	■	■	■		
2	■		■		■
2F	■	■	■		■
3F	■	■		■	
4F	■	■	■	■	

- If you want to add a D-ring extender, add an "E" to the product code for "Extender."
- Add a "Q" at the end of your product code to upgrade chest and leg hardware as follows:  
If 1 was chosen in step 2: Pass Thru leg and Pass Thru chest will change to Quick Connect leg and Quick Connect chest.  
If 5 was chosen in step 2: Grommet leg and Pass Thru chest will change to Grommet leg and Quick Connect chest.

AMEBA | FALL PROTECTION HARNESSES

	Product No.	Size	Description
1410	1410*	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring
	1410E	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring with 11 in. D-ring extension
	1410F	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Front and Back D-rings
	1410FE	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Front and Back D-rings with 11 in. D-ring extension
	1410Q*	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Back D-ring
	1410EQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Back D-ring with 11 in. D-ring extension
	1410FQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Front and Back D-rings
	1410FEQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Front and Back D-rings with 11 in. D-ring extension
1411	1411*	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Side and Back D-rings
	1411E	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Side and Back D-rings with 11 in. D-ring extension
	1411F	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Side, Front and Back D-rings
	1411FE	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Side, Front and Back D-rings with 11 in. D-ring extension
	1411Q	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and, Side and Back D-rings
	1411EQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Side and Back D-rings with 11 in. D-ring extension
	1411FQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Side, Front and Back D-rings
	1411FEQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Side, Front and Back D-rings with 11 in. D-ring extension
1412	1412	S-M, L-XL, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder
	1412E	S-M, L-XL, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection, Side and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
	1412F	S-M, L-XL, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection, Side, Front and Back D-rings and padded positioning belt with toolbelt holder
	1412FE	S-M, L-XL, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection, Side, Front and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
	1412Q	S-M, L-XL, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder
	1412EQ	S-M, L-XL, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection, Side and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
	1412FQ	S-M, L-XL, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection, Side, Front and Back D-rings and padded positioning belt with toolbelt holder
	1412FEQ	S-M, L-XL, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection, Side, Front and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
1413	1413F	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Front and Back D-rings
	1413FE	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension
	1413FQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings
	1413FEQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension
1414	1414F	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Side, Front and Back D-rings
	1414FE	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Shoulder, Side, Front and Back D-rings with 11 in. D-ring extension
	1414FQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Side, Front and Back D-rings
	1414FEQ	Universal, XXL	Quick Connect Chest Connection, Quick Connect Leg Connection and Shoulder, Side, Front and Back D-rings with 11 in. D-ring extension

\* CORE ITEM Our best selling equipment — in stock and in demand.

AMEBA | FALL PROTECTION HARNESSES

	Product No.	Size	Description
1450	1450*	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Back D-ring
	1450E	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Back D-ring with 11 in. D-ring extension
	1450F	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Front and Back D-rings
	1450FE	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Front and Back D-rings with 11 in. D-ring extension
	1450Q	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Back D-ring
	1450EQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Back D-ring with 11 in. D-ring extension
	1450FQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Front and Back D-rings
	1450FEQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Front and Back D-rings with 11 in. D-ring extension
1451	1451*	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings
	1451E	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings with 11 in. D-ring extension
	1451F	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings
	1451FE	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings with 11 in. D-ring extension
	1451Q	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Side and Back D-rings
	1451EQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Side and Back D-rings with 11 in. D-ring extension
	1451FQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings
	1451FEQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings with 11 in. D-ring extension
1452	1452*	S-M, L-XL, XXL	Pass Thru Chest Connection, Grommet Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder
	1452E	S-M, L-XL, XXL	Pass Thru Chest Connection, Grommet Leg Connection, Side and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
	1452F	S-M, L-XL, XXL	Pass Thru Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings and padded positioning belt with toolbelt holder
	1452FE	S-M, L-XL, XXL	Pass Thru Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
	1452Q	S-M, L-XL, XXL	Quick Connect Chest Connection, Grommet Leg Connection, Side and Back D-rings and padded positioning belt with toolbelt holder
	1452EQ	S-M, L-XL, XXL	Quick Connect Chest Connection, Grommet Leg Connection, Side and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
	1452FQ	S-M, L-XL, XXL	Quick Connect Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings and padded positioning belt with toolbelt holder
	1452FEQ	S-M, L-XL, XXL	Quick Connect Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings with 11 in. D-ring extension and padded positioning belt with toolbelt holder
1453	1453F	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Shoulder, Front and Back D-rings
	1453FE	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension
	1453FQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Shoulder, Front and Back D-rings
	1453FEQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Shoulder, Front and Back D-rings with 11 in. D-ring extension
1454	1454F	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Shoulder, Side, Front and Back D-rings
	1454FE	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Shoulder, Side, Front and Back D-rings with 11 in. D-ring extension
	1454FQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Shoulder, Side, Front and Back D-rings
	1454FEQ	Universal, XXL	Quick Connect Chest Connection, Grommet Leg Connection and Shoulder, Side, Front and Back D-rings with 11 in. D-ring extension

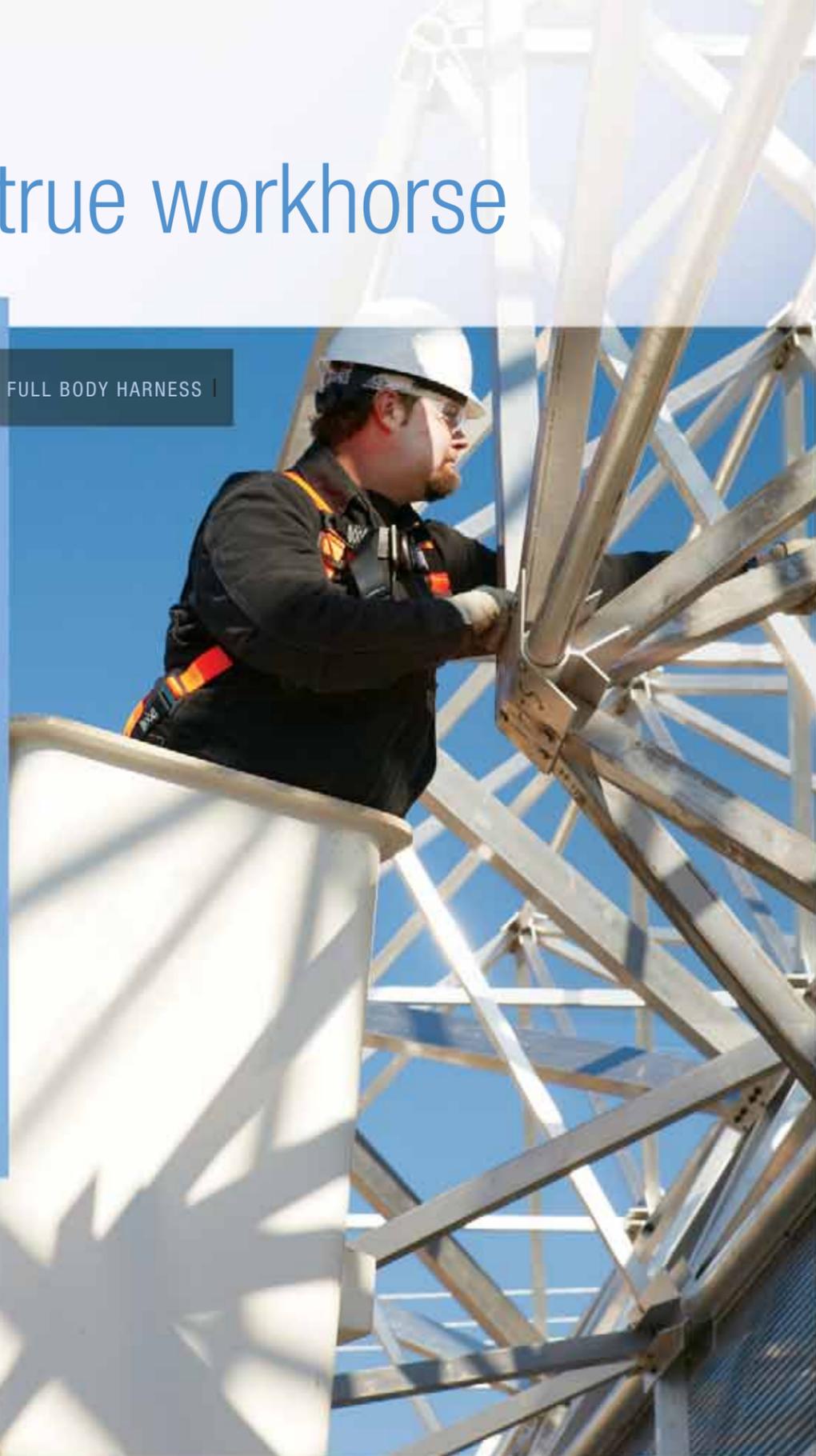
Any Ameba harness size XXL is rated to 400 lbs.

FULL BODY HARNESSES

# The harness that's a true workhorse

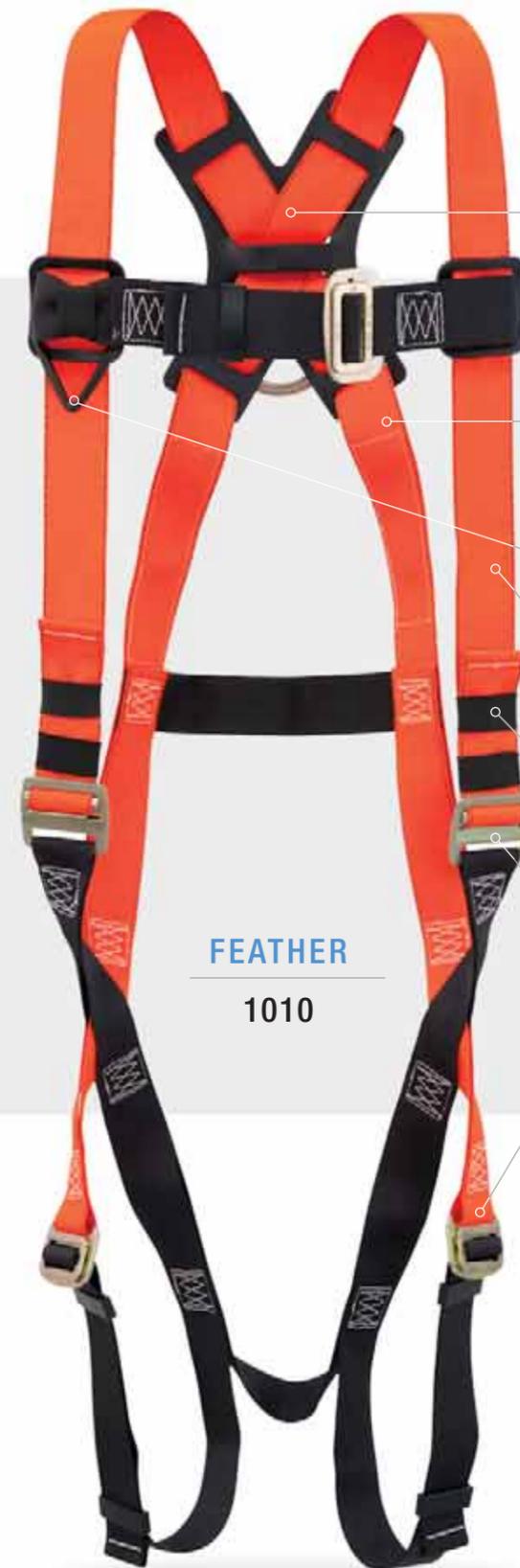
## FEATHER | LOWER MID-RANGE FULL BODY HARNESS

The Feather harness is our original harness and remains a popular choice today thanks to its X-plate D-ring assembly, designed to help reduce tangles and lie flat on the user's back. From pass thru chest connection to grommet or pass thru leg straps to additional D-rings, a variety of hardware configurations are available. Integrated web keepers and lanyard keepers hold excess material out of the way to help reduce potential entanglement hazards. The Feather is a perfect lower mid-range harness choice that's a true original.



### FEATHER FALL ARREST HARNESS

Lightweight, durable harness features full range of harness configurations for most applications — from general fall arrest and positioning to ladder climbing and retrieval.



**FEATHER**  
1010

## FEATHER HARNESS FEATURES



**DORSAL CONNECTION**  
The X-plate D-ring assembly helps reduce tangles and lies flat for easy donning of the harness.



### IMPACT INDICATORS

Promotes safety and makes inspection quick and simple.

### INTEGRATED LANYARD KEEPER

Attach and detach snap or rebar hooks of connecting device quickly while preventing dangerous tangles and snags.

### WEBBING

Durable polyester material is lightweight and long wearing.

### WEB KEEPERS

Help keep excess webbing in place and reduce entanglement hazards.

### TORSO ADJUSTERS

For improved fit and comfort.

### CONNECTORS

Depending on worker preference, these connector options are available:



**GROMMET**  
(for leg only)



**PASS THRU**  
(for chest or leg)



**QUICK CONNECT**  
(for chest or leg)

**CustomLogo**

▪ AVAILABLE ON ALL FEATHER HARNESSES ▪  
See page 35 for more info.

Choose the harness configuration with features that best fit your application or industry needs.



### Sample Feather Harness Configurations



**1050** ★  
**Feather** Lower Mid-Range Fall Protection Harness

Classic Fall Protection Harness with Pass Thru Chest Connection, Grommet Leg Connection and Back D-rings. Lanyard keepers and web keepers.

- General Fall Arrest
- Universal Size | 310 lbs. capacity
- XXL | 400 lbs. capacity



**1051** ★  
**Feather** Lower Mid-Range Fall Protection Harness

Classic Fall Protection Harness with Pass Thru Chest Connection, Grommet Leg Connection and Back and Side D-rings. Lanyard keepers and web keepers.

- Work Positioning & Travel Restraint
- General Fall Arrest
- Universal Size | 310 lbs. capacity
- XXL | 400 lbs. capacity



**1052F**  
**Feather** Lower Mid-Range Fall Protection Harness

Classic Fall Protection Harness with Pass Thru Chest Connection, Grommet Leg Connection and Back, Front and Side D-rings with Padded Positioning Belt with Toolbelt Holder. Lanyard keepers and web keepers.

- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M | 310 lbs. capacity
- L-XL | 310 lbs. capacity
- XXL | 400 lbs. capacity



**1053F**  
**Feather** Lower Mid-Range Fall Protection Harness

Classic Fall Protection Harness with Pass Thru Chest Connection, Grommet Leg Connection and Front, Back and Shoulder D-rings. Lanyard keepers and web keepers.

- Retrieval
- Ladder Climbing
- General Fall Arrest
- Universal Size | 310 lbs. capacity
- XXL | 400 lbs. capacity

★ **CORE ITEM** Our best selling equipment — in stock and in demand.

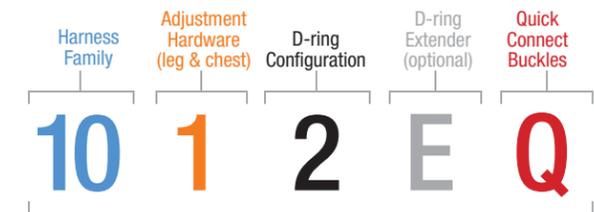
The images shown above represent a variety of our harness configurations to fit a variety of applications or industry needs. A full list of harnesses, by family, follows each section.

## FEATHER HARNESS ORDERING GUIDE

Build your harness by creating a product code in 5 steps.

Each harness option is designated with a code. Choose the harness family, leg and chest hardware and D-ring configuration, and add an optional D-ring extender or Quick Connect Buckle chest connection hardware. The combination of these codes creates a product code for ordering your harness with desired options.

EXAMPLE:



Your product code: **1012EQ**

Your harness description: Feather harnesses with Quick Connect leg connection hardware, back and side D-rings and positioning belt, a D-ring extender and Quick Connect chest buckles.

- Choose a Harness Family  
Every family of harness has a code. This code is the first entry in your product code.  
**10 = Feather Harnesses**
- Choose Hardware for Leg and Chest Connections  
Choose the preferred hardware. This code is the second entry in your product code.  
**1 = Pass Thru Leg and Chest Connection Hardware**  
**5 = Grommet Leg Connection, Pass Thru Chest Hardware**
- Choose a D-ring Configuration  
The chart below shows D-ring options. Choose the code for the desired configuration. This determines the next entry in your product code.

D-RING OPTIONS	Back	Front	Side	Shoulder	Padded Positioning Belt
0	■				
0F	■	■			
1	■		■		
1F	■	■	■		
2	■		■		■
2F	■	■	■		■
3F	■	■		■	
4F	■	■	■	■	

- If you want to add a D-ring extender, add an “E” to the product code for “Extender.”
- Add a “Q” at the end of your product code to upgrade chest and leg hardware as follows:  
If 1 was chosen in step 2: Pass Thru leg and Pass Thru chest will change to Quick Connect leg and Quick Connect chest.  
If 5 was chosen in step 2: Grommet leg and Pass Thru chest will change to Grommet leg and Quick Connect chest.



# Reliable fall protection

that's strong, lightweight and a great value

## SAFELIGHT | ENTRY-LEVEL FULL BODY HARNESS

A lightweight and economical fall arrest harness, the Safelight delivers quality construction designed for general fall arrest applications. It comes standard with a pass thru chest connection and options for grommet or pass thru leg straps and additional D-rings. The Safelight harness is an excellent entry-level harness choice that is affordable and easy to use.



### ECONOMIC FALL ARREST HARNESS

Affordable, lightweight, quality harness for general fall arrest and roofing applications.

## SAFELIGHT HARNESS FEATURES



**DORSAL CONNECTION**  
Integrated dorsal D-ring for secure general fall protection purposes.

### WEBBING

Durable polyester material is lightweight and long-wearing.

### INTEGRATED LANYARD KEEPER

Attach and detach snap or rebar hooks of connecting device quickly while preventing dangerous tangles and snags.

### WEB KEEPERS

Help keep excess webbing in place and reduce entanglement hazards.

### CONNECTORS

Depending on worker preference, these connector options are available:



GROMMET  
(for leg only)



PASS THRU  
(for chest or leg)



SAFELIGHT  
10910

CustomLogo

• AVAILABLE ON ALL SAFELIGHT HARNESSES •  
See page 35 for more info.

Choose the harness configuration with features that best fit your application or industry needs.



### Sample SafeLight Harness Configurations



**10950** ★  
SafeLight Entry-Level  
Fall Protection Harness

Pass Thru Chest Connection,  
Grommet Leg Connection and Back  
D-ring. Lanyard keepers and web keepers.

- General Fall Arrest
- XS and Universal Size | 310 lbs. capacity



**10911** ★  
SafeLight Entry-Level  
Fall Protection Harness

Pass Thru Chest Connection, Pass Thru  
Leg Connection and Back and Side D-rings.  
Lanyard keepers and web keepers.

- Work Positioning & Travel Restraint
- General Fall Arrest
- XS and Universal Size | 310 lbs. capacity



**10952F**  
SafeLight Entry-Level  
Fall Protection Harness

Pass Thru Chest Connection, Grommet Leg  
Connection and Back, Front and Side D-rings  
with Padded Positioning Belt with Toolbelt  
Holder. Lanyard keepers and web keepers.

- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M and L-XL | 310 lbs. capacity
- XXL | 400 lbs. capacity



**10954F**  
SafeLight Entry-Level  
Fall Protection Harness

Pass Thru Chest Connection, Grommet  
Leg Connection and Front, Back, Side and  
Shoulder D-rings. Lanyard keepers and  
web keepers.

- Retrieval
- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- Universal Size | 310 lbs. capacity

## SAFELIGHT HARNESS ORDERING GUIDE

Build your harness by creating a product code in 3 steps.

Each harness option is designated with a code. Choose the harness family, leg and chest hardware and D-ring configuration. The combination of these codes creates a product code for ordering your harness with desired options.

EXAMPLE:



Your product code: **10950**

Your harness description: SafeLight harness with Grommet leg connection hardware, Pass Thru chest connection and back D-ring.

- 1.** Choose a Harness Family  
Every harness family has a code. This code is the first entry in your product code.  
**109 = SafeLight Harnesses**  
*\*SafeLight code can also begin with 106 and 108. See next page for product options.*
- 2.** Choose Hardware for Leg and Chest Connections  
Choose the preferred hardware. This code is the second entry in your product code.  
**1 = Pass Thru Leg and Pass Thru Chest Connection Hardware**  
**5 = Grommet Leg Connection and Pass Thru Chest Connection Hardware**
- 3.** Choose a D-ring Configuration  
The chart below shows D-ring options. Choose the code for the configuration needed. This determines the next entry in your product code.

D-RING OPTIONS	Back	Front	Side	Shoulder	Padded Positioning Belt
0	■				
0F	■	■			
1	■		■		
1F	■	■	■		
2	■		■		■
2F	■	■	■		■
3F	■	■		■	
4F	■	■	■	■	

*D-Ring extenders and Quick Connect buckles are not available on SafeLight harnesses.*

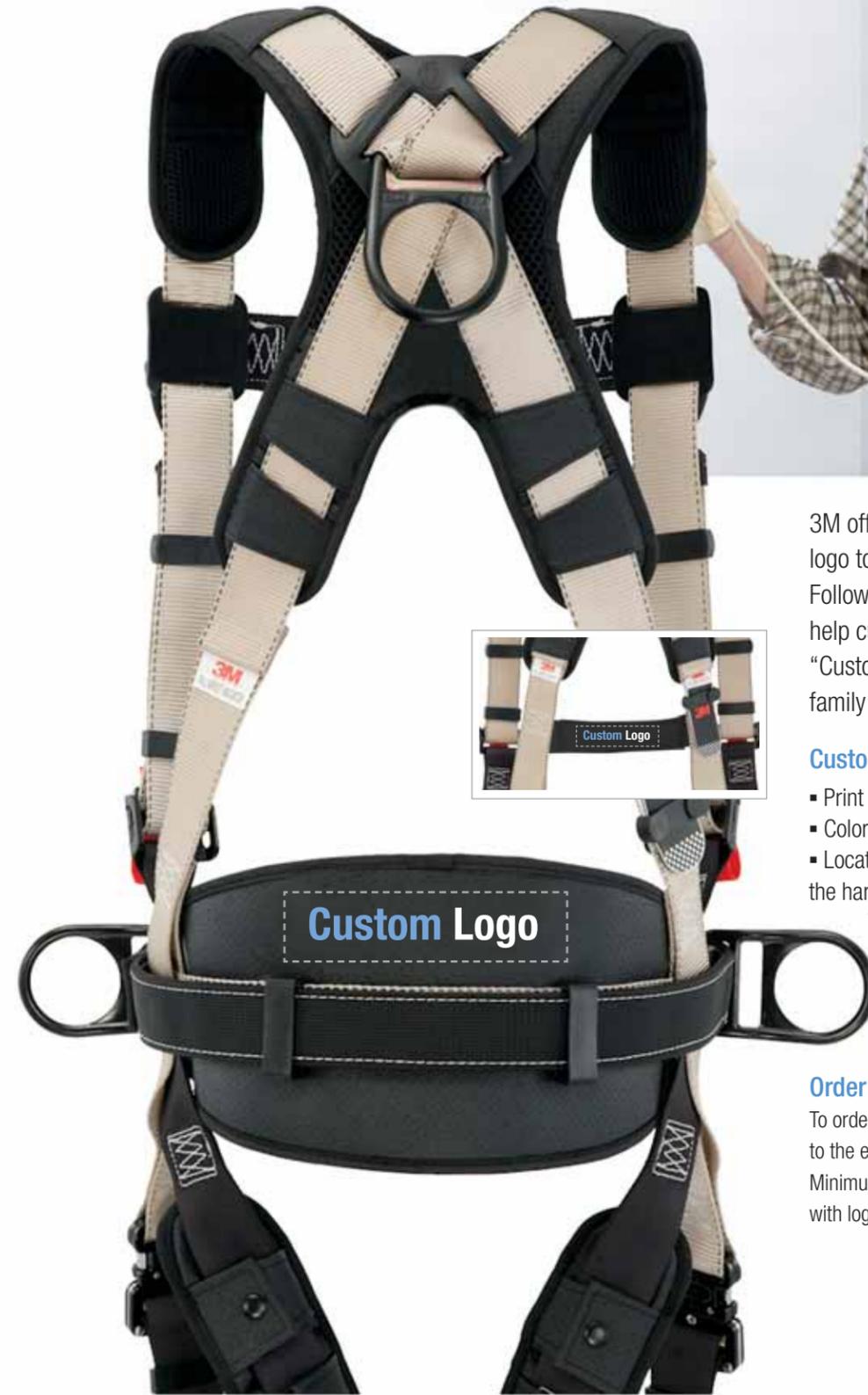
★ **CORE ITEM** Our best selling equipment — in stock and in demand.

The images shown above represent a variety of our harness configurations to fit a variety of applications or industry needs. A full list of harnesses, by family, follows each section.



# CustomLogo

• AVAILABLE ON SELECT HARNESSES •



FULL BODY HARNESSES

SAFELIGHT | FALL PROTECTION HARNESSES

	Product No.	Size	Description
106XX	10650	Universal	Pass Thru Chest Connection, Grommet Leg Connection, Front and Back D-rings and frontal rescue loops with carabiner
	10651	Universal	Pass Thru Chest Connection, Grommet Leg Connection, Side, Front and Back D-rings and frontal rescue loops with carabiner
108XX	10810	Universal	Three-Point Adjustment Harness, Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring
	10810/208512	Universal	Three-Point Adjustment Harness, Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring with permanently attached SafeLight 6 ft. Energy Absorbing Lanyard
109XX	10910	Universal	Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring
	10910F	Universal	Pass Thru Chest Connection, Pass Thru Leg Connection and Front and Back D-rings
	10910/209512	Universal	Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring with permanently attached SafeLight 6 ft. Energy-Absorbing Lanyard
	10911	XS, Universal	Pass Thru Chest Connection, Pass Thru Leg Connection and Side and Back D-rings
	10911F	XS, Universal	Pass Thru Chest Connection, Pass Thru Leg Connection and Side, Front and Back D-rings
	10950	XS, Universal	Pass Thru Chest Connection, Grommet Leg Connection and Back D-ring
	10951	XS, Universal	Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings
	10952	S-M, L-XL, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings and padded positioning belt with toolbelt holder
	10952F	S-M, L-XL, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings and padded positioning belt with toolbelt holder
	10953F	Universal	Pass Thru Chest Connection, Grommet Leg Connection and Shoulder, Front and Back D-rings
10954F	Universal	Pass Thru Chest Connection, Grommet Leg Connection and Shoulder, Side, Front and Back D-rings	

Any SafeLight harness size XXL is rated to 400 lbs.

★ CORE ITEM Our best selling equipment — in stock and in demand.

3M offers the option to add a custom logo to select harness families. Follow the guidelines to ensure 3M can help customize your order. Look for “Custom Logo” on all eligible harness family pages.

### Custom Logo Specifications

- Print area: 1-1/2 inches x 5 inches
- Color: Two maximum
- Location: Logo will appear on back strap unless the harness comes with a padded positioning belt.

Then, the logo will appear on the back of the padded belt.

- Artwork format: .eps or .ai files
- All logo artwork received must comply with 3M Harness Logo Program requirements*

### Order Instructions

To order a harness with logo, simply add “-Logo” to the end of any eligible harness product code. Minimum 15-piece opening order for harnesses with logo. Minimum five pieces for reorders.

## Saturn Harness

The Saturn harness is specifically designed for high-heat applications to provide char resistance. With its innovative fiber web, the Saturn resists char spatter up to 700°F. Benefits include a lightweight fit designed to improve worker comfort and integrated web keepers and lanyard keepers that hold excess material out of the way to reduce potential entanglement hazards. For quality and protection, the Saturn is a star.



**SATURN** | FALL PROTECTION HARNESSES WITH LANYARD STORAGE AND WEB KEEPERS | Resists char spatter up to 700°F

Product No.	Size	Description
1020	XS, Universal, XXL, XXXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring
1020F	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Front and Back D-ring
1020Q	Universal, XXL	Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Back D-ring
1020FQ	Universal, XXL	Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Front and Back D-rings
1021	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Side and Back D-rings
1021F	Universal, XXL	Pass Thru Chest Connection, Pass Thru Leg Connection and Side, Front and Back D-rings
1021Q	Universal, XXL	Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Side and Back D-rings
1021FQ	Universal, XXL	Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Side, Front and Back D-rings
1024FQ	Universal, XXL	Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Shoulder, Side, Front and Back D-rings
1030	XS, Universal, XXL, XXXL	Pass Thru Chest Connection, Grommet Leg Connection and Back D-ring
1030F	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Front and Back D-ring
1030Q	Universal, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Back D-ring
1030FQ	Universal, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Front and Back D-ring
1031	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings
1031F	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings
1031Q	Universal, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings
1031FQ	Universal, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings
1321	S-M, L-XL, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side and Back D-rings with padded positioning belt with toolbelt holder
1321F	S-M, L-XL, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings with padded positioning belt with toolbelt holder
1321Q	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side and Back D-rings with padded positioning belt with toolbelt holder
1321FQ	S-M, L-XL, XXL	Quick Connect Buckle Chest Connection, Grommet Leg Connection and Side, Front and Back D-rings with padded positioning belt with toolbelt holder
1323	Universal, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Shoulder and Back D-rings
1324F	S-M, L-XL, XXL	Pass Thru Chest Connection, Grommet Leg Connection and Shoulder, Side, Front and Back D-rings with padded positioning belt with toolbelt holder

★ CORE ITEM Our best selling equipment — in stock and in demand.

## Sample Saturn Harness Configurations



### 1020 ★ Saturn High-Heat Harness

Pass Thru Chest Connection, Pass Thru Leg Connection and Back D-ring. Resists char spatter up to 700°F. Lanyard keepers and web keepers.

- General Fall Arrest
- XS and Universal Size | 310 lbs. capacity
- XXL and XXXL | 400 lbs. capacity



### 1321 Saturn High-Heat Harness

Pass Thru Chest Connection, Grommet Leg Connection and Back and Side D-rings, and padded positioning belt with toolbelt holder. Resists char spatter up to 700°F. Lanyard keepers and web keepers.

- Work Positioning & Travel Restraint
- General Fall Arrest
- S-M | 310 lbs. capacity
- L-XL | 310 lbs. capacity
- XXL | 400 lbs. capacity



### 1024FQ Saturn High-Heat Harness

Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Front, Back, Side and Shoulder D-rings. Resists char spatter up to 700°F. Lanyard keepers and web keepers.

- Retrieval
- Ladder Climbing
- Work Positioning & Travel Restraint
- General Fall Arrest
- Universal Size | 310 lbs. capacity
- XXL | 400 lbs. capacity



### 1030F Saturn High-Heat Harness

Pass Thru Chest Connection, Grommet Leg Connection and Front and Back D-rings. Resists char spatter up to 700°F. Lanyard keepers and web keepers.

- Ladder Climbing
- General Fall Arrest
- Universal Size | 310 lbs. capacity
- XXL | 400 lbs. capacity





**1710** ★

Apache Harness

The Apache Harness is engineered and manufactured for workers who have a 311 lbs.–400 lbs. total working weight. Given these specifications, the harness must be used with a 400 lbs. rated connecting device. Integrated web keepers and lanyard keepers hold excess material out of the way to help reduce potential entanglement hazards. Rugged, durable and strong, the Apache accommodates.

Prod. No.	Size	Description	Weight Rating
1040 ★	XXL, XXXL	Pass Thru Chest Connection, Pass Thru Leg and Back D-ring	400 lbs.
1041	XXL, XXXL	Pass Thru Chest Connection, Pass Thru Leg, Back and Side D-rings and padded positioning belt with toolbelt holder	400 lbs.
1710 ★	XXL, XXXL	Pass Thru Chest Connection, Grommet Leg and Back D-ring with Toolbelt	400 lbs.
1711	XXL, XXXL	Pass Thru Chest Connection, Grommet Leg and Back and Side D-rings with Toolbelt	400 lbs.

**CustomLogo**

• AVAILABLE ON APACHE HARNESS •  
See page 35 for more info.

**1808**

Vest Harness

The Fall Arrest Harness with bright colored vest including 3M Scotchlite™ Reflective Material with Pass Thru Chest Connection, Grommet Leg Connection and Back and Side D-rings. Lanyard keepers and web keepers. Meets ANSI/ISEA 107-2004 Class II.

Prod. No.	Size	Weight Rating
1808	S-M, L-XL	310 lbs.
1808	XXL	400 lbs.



BACK VIEW



**1492**

Wind Energy Harness

Wind Energy Harness, with Quick Connect Buckle Chest Connection, Grommet Leg Connection, Back and Side D-Rings and a fixed Front D-Ring for approved connection point with vertical lifeline systems. Comes with padded positioning belt and toolbelt holder. Lanyard keepers and web keepers.

Prod. No.	Size	Description	Weight Rating
1490	S-M	Quick Connect Chest, Grommet Leg and Back and Front D-rings	310 lbs.
1490	L-XL	Quick Connect Chest, Grommet Leg and Back and Front D-rings	310 lbs.
1490	XXL	Quick Connect Chest, Grommet Leg and Back and Front D-rings	400 lbs.
1492	S, M, L, XL	Quick Connect Chest, Grommet Leg and Back, Side and Front D-rings, and padded positioning belt with toolbelt holder	310 lbs.
1492	XXL	Quick Connect Chest, Grommet Leg and Back, Side and Front D-rings, and padded positioning belt with toolbelt holder	400 lbs.



**WM7510**

Elavation™ Energy Harness

Elavation™ Fall Protection Energy Harness with Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Back and Seat D-rings with padded seat sling. Lanyard keepers and web keepers.

Prod. No.	Size	Weight Rating
WM7510	S-M, L-XL, XXL	400 lbs.

**1515**

Tower Climbing Harness

Tower Climbing Fall Protection Harness with Quick Connect Buckle Chest Connection, Quick Connect Leg Connection, Back, Front, Side and Seat D-rings, and padded positioning belt with toolbelt holder and seat sling for climbing application. Lanyard keepers and web keepers.

Prod. No.	Size	Weight Rating
1515	S, M, L, XL	310 lbs.
1515	XXL	400 lbs.



**CustomLogo**

• AVAILABLE ON WIND ENERGY HARNESS •  
See page 35 for more info.



**U1620**  
Specialty Harness

Specialty Harness with Soft Loop Back D-Ring and PVC sleeve. Lanyard keepers and web keepers.

Prod. No.	Size	Weight Rating
U1620	Universal	310 lbs.



**10955**  
Coated Web Harness

Quick Connect Buckle Chest Connection, Grommet Leg Connection and Back D-ring. Polyurethane coated web for dirty jobs such as tar roofing, oil-field work and painting. Lanyard keepers and web keepers.

Prod. No.	Size	Weight Rating
10955	Universal	310 lbs.
10955	XXL	400 lbs.

**CustomLogo**

• AVAILABLE ON COATED WEB HARNESS •  
See page 35 for more info.



**PRD-7510Q**  
Personal Rescue Device Harness

Latchways Personal Rescue Device™ PRD™ with 3M™ Elavation™ Harness 7510Q has Quick Connect Buckle Chest and Leg Connection, Back D-ring. For more information on the Personal Rescue Device Harness, see page 126 in the Escape and Rescue section of this catalog.

Prod. No.	Size	Weight Rating
PRD-7510Q (S-M)	S-M	310 lbs.
PRD-7510Q (L-XL)	L-XL	310 lbs.
PRD-7510Q (XXL)	XXL	310 lbs.



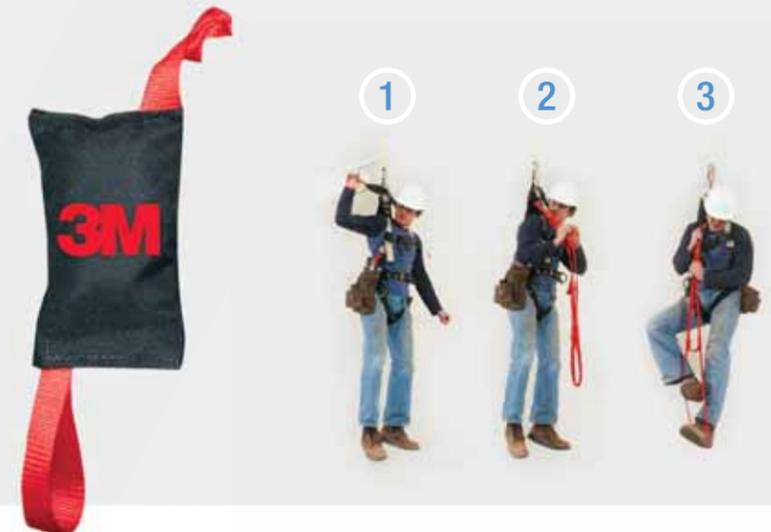
**M1311**  
Omega Fall Protection Harness

Pass Thru Chest Connection, Grommet Leg Connection, Side and Back D-rings, and padded positioning belt with toolbelt holder.

Prod. No.	Size	Weight Rating
M1311	S, M, L, XL	310 lbs.
M1311	XXL	400 lbs.

**R-100** ★  
Suspension Trauma Strap

Suspension Trauma Strap helps to relieve discomfort normally associated with prolonged suspension. 70 inch overall length.



# Safety and security that defies gravity, not logic.

## SELF-RETRACTING LANYARDS

When working in dangerous environments, 3M™ Fall Protection self-retracting lanyards deliver the freedom of movement with the assurance of superior safety. Designed with durability and functionality in mind, our innovative lifelines are dependable. They are available in a wide range of lengths in both webbing and cable lifelines — so whatever the job, there is a product for you. Extensively tested to meet or exceed applicable ANSI and CSA standards and OSHA regulatory requirements, 3M is committed to give you the confidence to get the job done.



## WHAT TO CONSIDER WHEN CHOOSING A SELF-RETRACTING LANYARD.

Your comfort, budget and specific work environment needs are of utmost importance.

### 1 WORK ENVIRONMENT

When choosing an SRL, it's important to know the conditions of your work environment. From harsh marine and mining to oil and gas to general purpose, getting the best use out of an SRL depends on understanding where — and how — it will be utilized.

#### Which lanyard material is required?

**WEB** | General-purpose environments — ideal for indoor or less harsh environments

**CABLE** | Extremely harsh environments — offers extra durability and is ideal for abrasive or high-heat situations

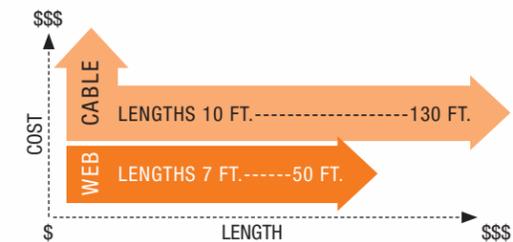
#### Why should I choose a single- or dual-leg lanyard?

**SINGLE-LEG** | for single anchor point connection to work within a specific range of movement

**DUAL-LEG** | offers continued protection for a broader range of movement when transferring between anchor points

### 2 COST vs. LENGTH AND MATERIAL

Choose from a wide range of our competitively priced web or cable lanyards in lengths from 7 feet to 130 feet.



### 3 HARDWARE CHOICES

#### HOUSING HARDWARE



**CARABINER**  
connects to anchorage connector



**DUAL-LEG ADAPTER**  
connects directly to back D-ring, allowing two SRLs for 100% tie-off

#### LIFELINE HARDWARE



**SWIVEL SNAP HOOK**



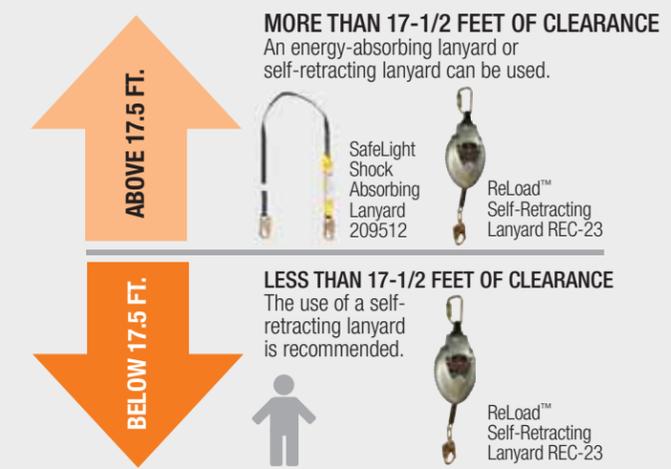
**SNAP HOOK**



**REBAR SNAP HOOK**

### 4 CHOOSING A SELF-RETRACTING LANYARD vs. AN ENERGY-ABSORBING LANYARD

Self-retracting lanyards offer greater mobility and maneuverability, which may help increase productivity. They also help shorten fall distance and minimize trip hazards — significantly reducing the potential for injury. Unlike a typical 6 foot energy-absorbing lanyard, SRLs range in length from 7 feet to 130 feet to increase the working zone. In the event of a fall, the self-retracting lanyard braking mechanism activates as soon as the user reaches an approximate acceleration speed of 4-1/2 feet–6-1/2 ft./sec. (generally 12 inches–18 inches), with a maximum arresting distance of 42 inches as required by OSHA 1910.66 and 1926.502 regulations. Self-retracting lanyards retain tension on the lifeline at all times, staying out of the worker's way while providing maximum safety.



# 3M SELF-RETRACTING LANYARDS | OVERVIEW

3M™ Sealed ReLoad™, ReLoad™, M Series, RLD Series and MS Series retractable lanyard families represent a broad range of connecting devices. Designed for durable performance, they are ideal for indoor or outdoor use, in light and heavy industrial environments.

## Premium and Mid-range Self-Retracting Lanyards

- SEALED RELOAD** | designed for durable performance in harsh work environments | **Cable**
- RELOAD** | designed for durable performance in both light and heavy industrial environments | **Cable and Web**
- M SERIES** | designed for durable performance in general-purpose work environments | **Cable**
- RLD SERIES** | designed for durable performance in both light and heavy industrial environments | **Cable**
- MS SERIES** | designed for general-purpose use and/or scratch-sensitive surfaces | **Web**



## M SERIES

The mid-range cable 3M self-retracting lanyard

- Ideal for use in general-purpose work environments.
- Available with 15 feet of galvanized steel cable.
- Aluminum housing and galvanized steel cable lifeline provides increased durability.



SELF-RETRACTING LANYARDS



## RELOAD™

The premium 3M self-retracting lanyard

- Designed for durable performance in general-purpose and harsh work environments. Web models also ideal for environments that may be sensitive to contact with traditional steel cable.
- Available with galvanized or stainless steel cable ranging from 23 feet up to 50 feet and with web ranging from 7 feet up to 23 feet.
- Stainless steel or galvanized cable lifeline with indicating snaphook and impact-modified nylon housing. Web lifeline with aluminum or impact-modified nylon housing.

## SEALED RELOAD™

The premium 3M self-retracting lanyard

- Designed for use in corrosive environments, including marine, mining, oil, gas and steel mills.
- Available with stainless steel cable ranging from 30 feet up to 130 feet.
- Ingress protection rating: IP69K.



## RLD SERIES

The mid-range cable 3M self-retracting lanyard

- Economically suited for most work environments.
- Available with galvanized steel cable ranging from 10 feet to 50 feet.
- Polymer housing helps to provide a lighter-weight option.



## MS SERIES

The mid-range web 3M self-retracting lanyard

- For use in general-purpose work environments and in environments that may be sensitive to contact with traditional steel cable lanyards.
- Strong-performing web retractable available in 7 feet up to 50 feet.
- Dyneema® webbing for increased durability.



SRL ACCESSORY:  
DL-7 DUAL-LEG  
ADAPTER



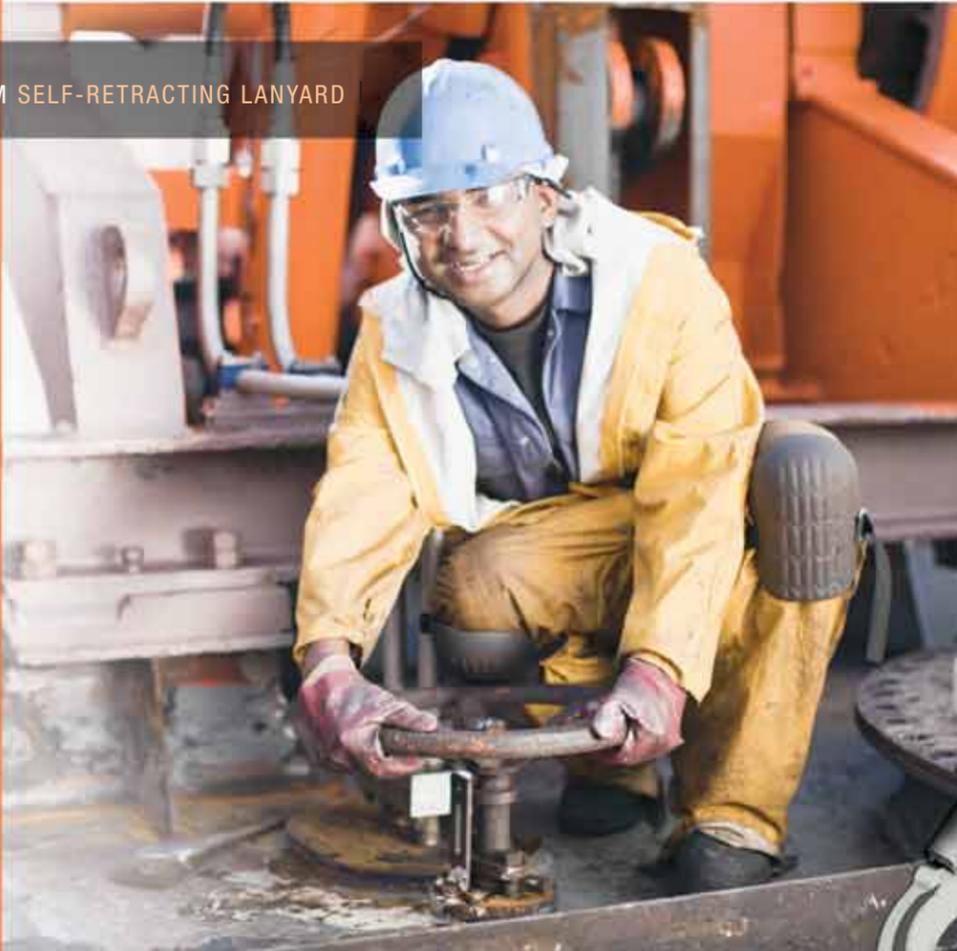
Lightweight adapter connects two self-retracting lanyards directly to back D-ring of harness, allowing for 100% tie-off.

# Smart. Safe. Strong.

## Fit for a purpose.

### SEALED RELOAD™ | PREMIUM SELF-RETRACTING LANYARD

With years of fall protection experience, 3M has developed the Sealed ReLoad™ self-retracting lanyard (SRL) — a completely field serviceable sealed SRL. The Sealed ReLoad™ SRL range offers a dependable means of fall protection and has been specifically designed for use in harsh environments such as steel mills, oil rigs, wind turbines and other applications, enabling an unhindered, hands-free fall protection solution. Utilizing modern engineering and innovative design, it's one of the most advanced, reliable and cost-effective SRLs available on the market today.



### SREC-30-SS Sealed ReLoad™ Self-Retracting Lanyard

This premium fall protection self-retracting lanyard is a 30 foot stainless steel 316 cable lifeline with aluminum housing and indicating stainless steel swivel snap hook. Designed for durable performance in harsh work environments.

### ACCELERATED CORROSION TESTING

Accelerated corrosion testing has been performed that simulates real life corrosion in a controlled environment for 2000 hours. This is a recognized representative period of 10 years "real life" use of the Sealed ReLoad™ SRL.

### PROTECTIVE SEAL

Critical components are sealed from the external environment by a series of rubber gaskets, providing improved resistance to corrosion. The protective seal provides an IP rating of IP 69K, which is the highest rating on the ingress protection scale.

### 100% FULL CONTACT LOCKING MECHANISM

The Full Contact™ pawl locking mechanism provides 100% reliable locking pawls that won't freeze, hang up or corrode.

### MEETS OR EXCEEDS GLOBAL INDUSTRY STANDARDS AND OSHA REGULATORY REQUIREMENTS

- ANSI Z359.14-2012
- OSHA 1910.66
- OSHA 1926.502
- CSA Z259.2.2-98
- IP 69K

### FRICTIONLESS BRAKING MECHANISM

This braking mechanism has no moving parts and will not go out of adjustment or require recalibration for the lifespan of the product.

### COMPLETELY FIELD SERVICEABLE\*

The 3M™ Sealed ReLoad™ SRL allows for common repairs to be performed on site by a trained technician. Should a fall occur, the modular design makes it easy for individual components to be removed and replaced in the field within minutes — allowing quick and easy servicing of not only the cable, but also the absorber. The Sealed ReLoad™ SRL reduces costs incurred during product maintenance, including labor, shipping and product downtime. 3M can provide training that will enable personnel to inspect and maintain Sealed ReLoad™ SRL units on site. Contact your 3M Representative for more information. A selection of replacement component parts is shown below.



REPLACEMENT ABSORBER KIT



REPLACEMENT STAINLESS STEEL CABLE KIT



REPLACEMENT LABELS



ATTACHMENT POINT

### LANYARDS | SEALED RELOAD™ SELF-RETRACTING

SREC-30-SS	PRODUCT NUMBER	DESCRIPTION	LENGTH	WEIGHT OF UNIT	STANDARD
	SREC-30-SS	Sealed ReLoad SRL features aluminum housing, Grade 316 stainless steel lifeline with indicating stainless steel swivel snap hook and a 310 lb. weight rating.	30 ft.	21.4 lbs.	ANSI Z359.14-2012, CSA Z259.2.2-98
	SREC-50-SS		50 ft.	27.7 lbs.	
	SREC-85-SS	Sealed ReLoad SRL features aluminum, stainless steel housing, Grade 316 stainless steel lifeline with indicating stainless steel swivel snap hook and a 310 lb. weight rating.	85 ft.	48.3 lbs.	
	SREC-130-SS	130 ft.	62 lbs.		

\* Must be repaired by a certified repair person.

# Easy to service, even in the field.

## RELOAD™ | PREMIUM SELF-RETRACTING LANYARD

3M has combined innovative engineering, superior materials and futuristic design with quick and easy recertification to provide the most advanced range of self-retracting lanyards (SRLs) on the market. The ReLoad™ SRL has been developed with a number of unique features to provide a smarter, safer and stronger alternative to traditional SRLs.



### REW-7 ★

#### Premium Self-Retracting Lanyard

This self-retracting lanyard has a 7 foot Vectran™ web lifeline with aluminum housing and snap hook. Designed for general-purpose use and/or in environments that may be sensitive to contact with traditional steel cable lanyards.



### REC-23 ★

#### Premium Self-Retracting Lanyard

This premium fall protection self-retracting lanyard is a 23 foot galvanized cable lifeline with impact-modified nylon housing and an indicating swivel snap hook. Designed for durable performance in both light and heavy industrial environments.



## RELOAD™ SELF-RETRACTING LANYARD FEATURES

### 100% RELIABLE LOCKING MECHANISM

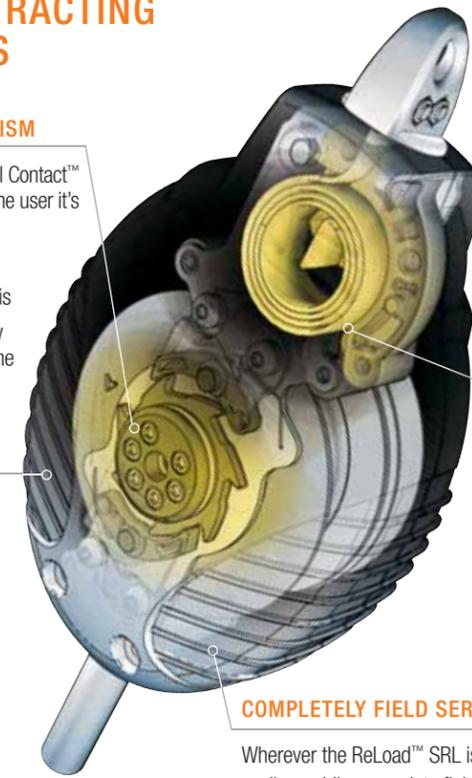
- Constantly moving, the 100% reliable Full Contact™ locking mechanism "clicks" to reassure the user it's functioning correctly
- Cannot freeze, hang up or corrode
- No wet lubrication to attract dirt and debris
- Stainless steel components unaffected by water, contaminants, temperature and time

### IMPACT-RESISTANT CASING

The ReLoad™ self-retracting lanyard range is encased in an impact-modified nylon housing, which is designed to help to protect the chassis inside. This acts purely as armor — no critical components form part of the casing, meaning that even in the event of severe damage, it can be easily replaced.

### MEETS GLOBAL INDUSTRY STANDARDS

- ANSI Z359.14
- OSHA 1910.66
- OSHA 1926.502
- CSA Z259.2.2-98



### PATENTED FRICTIONLESS BRAKING SYSTEM

- A frictionless braking system with no moving parts to go out of adjustment
- Individual components can be removed and replaced in minutes due to modular design. Repairs to be performed on site by a trained technician.
- Components need only visual inspection, not mechanical testing

### COMPLETELY FIELD SERVICEABLE

Wherever the ReLoad™ SRL is in service, full inspection can be undertaken quickly and easily, enabling complete field serviceability, performed on site by a trained technician — a totally unique range in the market. The entire range has been developed in a modular fashion to enable simple key component replacement, so parts can be replaced in a matter of minutes and the unit doesn't require costly "return to factory" servicing (service charge, labor and downtime). Replacement components available through your 3M Representative include (but are not limited to):

- Cable Assembly
- Energy Absorber
- Labels
- Cases

## LANYARDS | RELOAD SELF-RETRACTING

PRODUCT NUMBER	DESCRIPTION	LENGTH	WEIGHT OF UNIT	HOUSING HARDWARE
REW-7 ★	ReLoad SRL features aluminum housing, web lifeline with snap hook and a 310 lbs. weight rating.	7 ft.	3.4 lbs.	Carabiner
DLREW-7 ★	Dual-leg ReLoad SRL features aluminum housing, web lifeline with snap hooks and a 310 lbs. weight rating.	7 ft.	6.5 lbs.	DL-7 Dual-leg Retractable Adapter
REW-7-0241A*	ReLoad SRL features aluminum housing, web lifeline with aluminum rebar hook and a 310 lbs. weight rating.	7 ft.	3.8 lbs.	Carabiner
DLREW-7-0241A*	Dual-leg ReLoad SRL features aluminum housing, web lifeline with aluminum rebar hooks and a 310 lbs. weight rating.	7 ft.	7.5 lbs.	DL-7 Dual-leg Retractable Adapter with Carabiner
REW-12 ★	ReLoad SRL features high-impact-modified nylon housing, web lifeline with snap hook and a 310 lbs. weight rating.	12 ft.	5.3 lbs.	Swivel-Top Carabiner
REW-23 ★	ReLoad SRL features high-impact-modified nylon housing, web lifeline with snap hook and a 310 lbs. weight rating.	23 ft.	9.6 lbs.	Swivel-Top Carabiner
REC-23 ★	ReLoad SRL features high-impact-modified nylon housing, galvanized cable lifeline with indicating steel swivel snap hook and a 400 lbs. weight rating.	23 ft.	11.5 lbs.	Carabiner
REC-30 ★		30 ft.	13.3 lbs.	Carabiner
REC-40 ★		40 ft.	16.0 lbs.	Carabiner
REC-50 ★		50 ft.	16.6 lbs.	Carabiner
REC-23-SS		23 ft.	11.4 lbs.	Carabiner
REC-30-SS	ReLoad SRL features high-impact-modified nylon housing, Grade 316 stainless steel cable lifeline with indicating stainless steel swivel snap hook and a 400 lbs. weight rating.	30 ft.	13.2 lbs.	Carabiner
REC-40-SS		40 ft.	15.8 lbs.	Carabiner
REC-50-SS		50 ft.	16.4 lbs.	Carabiner

\*Available late April 2014

★ CORE ITEM Our best selling equipment — in stock and in demand.

The M Series of self-retracting lanyards offers an economical option suitable for most general-purpose work environments. Available with a galvanized steel cable lifeline and aluminum housing, providing increased durability.

**M-15**  
Self-Retracting Lanyard

This mid-range fall protection self-retracting lanyard is a 15 foot galvanized cable lifeline with aluminum housing and a swivel snap hook. Designed for durable performance in both light and heavy industrial environments.



LANYARDS | M SERIES SELF-RETRACTING

PRODUCT NUMBER	LENGTH	LIFELINE MATERIAL	HOUSING TYPE	WEIGHT OF UNIT	HOUSING HARDWARE	LIFELINE HARDWARE	WEIGHT RATING
		GALVANIZED CABLE	ALUMINUM			SWIVEL HOOK	
M-15	15 ft.	■	■	6.3 lbs.	Swivel-Top Carabiner	■	310 lbs.

Meets requirements of ANSI Z359.1-07 standards and CSA Z259.2.2-98

★ CORE ITEM Our best selling equipment — in stock and in demand.

The RLD Series of self-retracting lanyards offers an economical option suitable for most work environments. Available with galvanized steel cable ranging in length from 10 feet to 50 feet, with polymer housing.

**RLD-10S** ★  
Self-Retracting Lanyard

This mid-range fall protection self-retracting lanyard is a 10 foot galvanized cable lifeline with polymer housing and a swivel snap hook. Designed for durable performance in both light and heavy industrial environments.

**RLD-30** ★  
Self-Retracting Lanyard

This mid-range fall protection self-retracting lanyard is a 30 foot galvanized cable lifeline with polymer housing and a swivel snap hook. Designed for durable performance in both light and heavy industrial environments.

LANYARDS | RLD SELF-RETRACTING

PRODUCT NUMBER	LENGTH	LIFELINE MATERIAL	HOUSING TYPE	WEIGHT OF UNIT	HOUSING HARDWARE	LIFELINE HARDWARE			WEIGHT RATING
						SWIVEL HOOK	REBAR HOOK	SWIVEL HOOK	
RLD-10 ★	10 ft.	■	■	4.9 lbs.	Swivel-Top Carabiner	■			310 lbs.
RLD-10S ★	10 ft.	■	■	5.1 lbs.	Swivel-Top Carabiner			■	310 lbs.
RLD-10-0241	10 ft.	■	■	5.6 lbs.	Swivel-Top Carabiner		■		310 lbs.
RLD-20 ★	20 ft.	■	■	7.1 lbs.	Swivel-Top Carabiner			■	310 lbs.
RLD-30 ★	30 ft.	■	■	8.5 lbs.	Swivel-Top Carabiner			■	310 lbs.
RLD-50 ★	50 ft.	■	■	15 lbs.	Swivel-Top Carabiner			■	310 lbs.

Meets requirements of ANSI Z359.1-07 standards and CSA Z259.2.2-98

★ CORE ITEM Our best selling equipment — in stock and in demand.

RLD SERIES  
RLD-10S





A popular choice, this 3M self-retracting lanyard is a strong-performing web retractable. The aluminum housing offers durability and helps ensure the product is lightweight for the wearer. Features Dyneema® webbing for increased durability.

**MS-11** ★  
Self-Retracting Lanyard

This mid-range fall protection self-retracting lanyard is an 11 foot Dyneema® web lifeline with aluminum housing and a snap hook. Designed for general-purpose use and/or for environments that may be sensitive to contact with traditional steel cable.

LANYARDS | MS SERIES SELF-RETRACTING

PRODUCT NUMBER	LENGTH	LIFELINE MATERIAL	HOUSING TYPE		WEIGHT OF UNIT	HOUSING HARDWARE	LIFELINE HARDWARE			DUAL-LEG	WEIGHT RATING
			POLYMER	ALUMINUM			SNAP HOOK	REBAR HOOK	SWIVEL HOOK		
MS-11 ★	11 ft.	■		■	4.4 lbs.	Swivel-Top Carabiner	■				310 lbs.
MS-11/0241	11 ft.	■		■	5.1 lbs.	Swivel-Top Carabiner		■			310 lbs.
MS-16	16 ft.	■	■		4.5 lbs.	Swivel-Top Carabiner	■				310 lbs.
MS-30	30 ft.	■	■		6.5 lbs.	Swivel-Top Carabiner			■		310 lbs.
MS-50	50 ft.	■	■		12.5 lbs.	Swivel-Top Carabiner			■		310 lbs.

Meets requirements of ANSI Z359.1-07 standards and CSA Z259.2.2-98

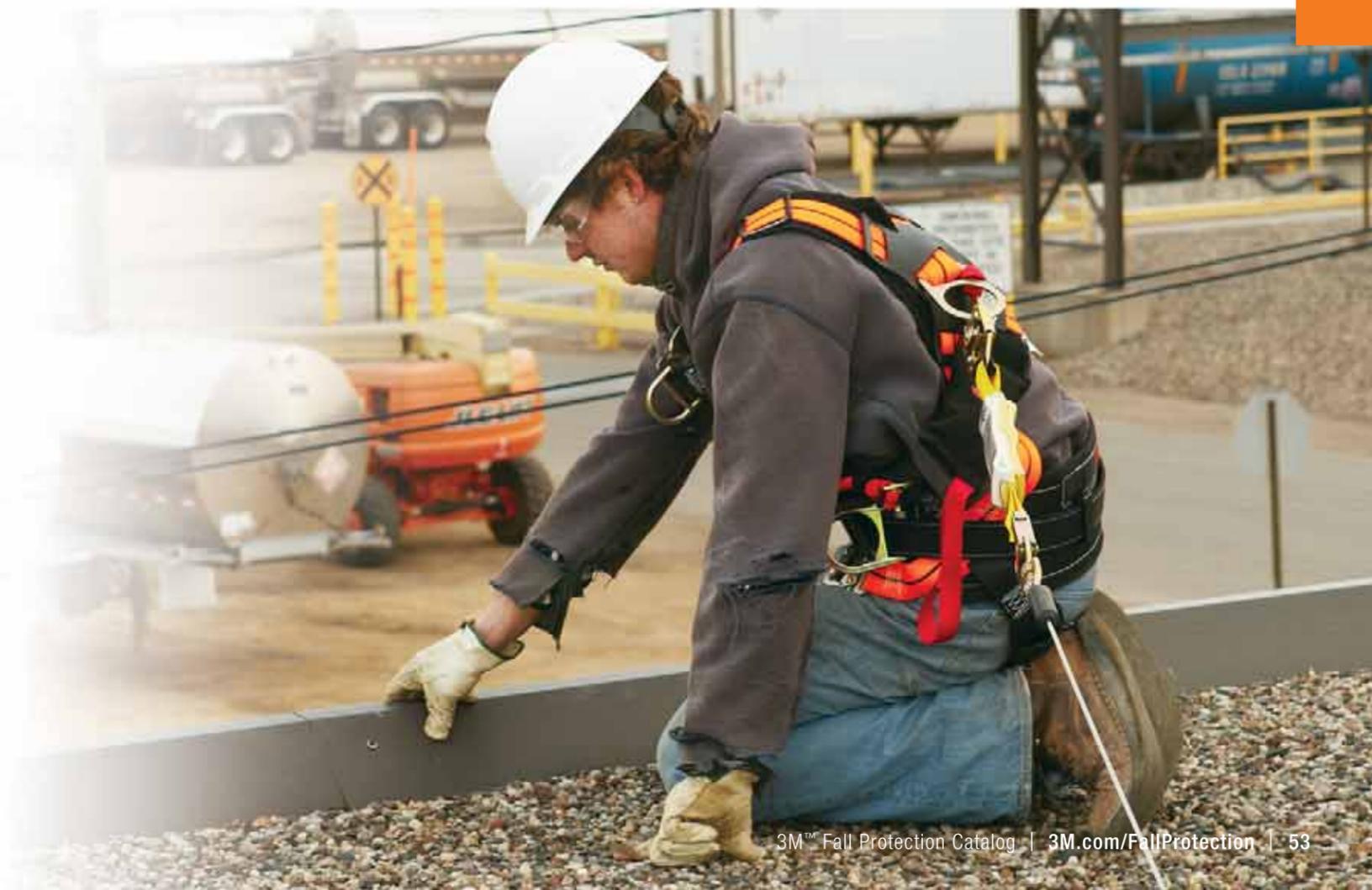
Leading-Edge Applications

The use of the personal energy absorber is required in leading-edge applications. A personal energy absorber must be placed inline with a self-retracting lanyard to add energy absorption properties at the body end of the system. Reference the Self-Retracting Lanyard User Instruction Manual for additional information on leading edge applications. See page 65 for additional personal energy absorber options.



**3012**  
Personal Energy Absorber

This fall protection personal energy absorber is 18 inches and includes a snap hook and D-ring.



★ CORE ITEM Our best selling equipment — in stock and in demand.

# A stronger connection, to give you greater performance.

## ENERGY-ABSORBING LANYARDS

When working at height, your confidence in the strength, durability and construction of your fall arrest lanyard are at the forefront of 3M's mission. We offer a wide range of energy-absorbing lanyards designed to meet a variety of industry applications. These products have been developed and tested to meet many fall protection performance standards as well as your own expectations.



## CONSIDERATIONS FOR CHOOSING AN ENERGY-ABSORBING LANYARD:

Your comfort, budget, and specific work environment needs are of utmost importance.

### 1 WORK ENVIRONMENT

When choosing a lanyard, it's important to consider the conditions of your work environment. From harsh marine and mining to oil and gas to general purpose, getting the best use out of a lanyard depends on understanding where — and how — it will be used.



#### Which lanyard is best for my work site?

**WEB** | General-purpose environments — from use inside to use in harsh environmental elements.

**CABLE** | Extremely harsh environments — offers extra durability and is ideal for abrasive or high-heat situations.

#### Should I choose a single- or dual-leg lanyard?

**SINGLE-LEG** | helps provide high strength fall protection that limits the force of a fall arrest.

**DUAL-LEG** | offers protective connection as worker moves from one anchor point to the next for 100% tie-off.

### 2 COST vs. LENGTH AND MATERIAL

Choose from a wide range of our competitively-priced options to fit your budget requirements. Available in 3 feet, 4 feet, 5 feet, 4 feet–6 feet or 6 feet adjustable or expandable options, depending on range of movement needed.



### 3 CONNECTORS AND HOOKS LANYARD HARDWARE



TIE-BACK CARABINER



SNAP HOOK  
for connecting to back D-ring of harness or anchorage connector



REBAR HOOK  
for use when climbing and/or on rebar

### 4 HOW DO ENERGY ABSORBERS DIFFER IN LANYARD CHOICES?

OSHA 29 CFR 1910.66 Appendix C Section I (d)(1) and 1926.502(d)(16) state that personal arrest systems, when stopping a fall, shall: limit maximum arresting force on an employee to 1,800 lbs. (8 kN) when used with a body harness.

Many 3M lanyards keep forces below 900 lbs. (4 kN), and all 3M lanyards keep forces below 1,800 lbs. (8 kN). External or integrated styles are available, depending on preference.



**EXTERNAL** | Tearweb is packed in a PVC sleeve and tears out during a fall arrest. External energy absorber attaches to back D-ring of harness.



**INTEGRATED** | Energy absorber is incorporated throughout the length of the lanyard in a low profile (tubular) design. Available in expandable or non-expandable options.

# SAFEABSORB XTRA-EXPANDABLE | PREMIUM ENERGY-ABSORBING LANYARDS |

These expandable lanyards have integrated energy absorption and stretch from 4 feet to 6 feet to help reduce trip hazards. Available with snap hooks and/or rebar hooks, allowing for a variety of attachment options. Meets the requirements of ANSI Z359.1-2007 standard. 3,600 lbs. gate rated hardware.



## 4712-6 ★

SafeAbsorb Xtra-Expandable Energy-Absorbing Lanyard

This premium expandable lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with two snap hooks and integrated energy absorption. Designed for general-purpose work environments.



## 4712-6/0241 ★

SafeAbsorb Xtra-Expandable Energy-Absorbing Lanyard

This premium expandable lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with one snap hook, one rebar hook and integrated energy absorption. Designed for general-purpose work environments.



## 4750 ★

SafeAbsorb Xtra-Expandable Energy-Absorbing Dual-Leg Lanyard

This premium expandable dual-leg lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with three snap hooks and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.



## 4750/0241 ★

SafeAbsorb Xtra-Expandable Energy-Absorbing Dual-Leg Lanyard

This premium expandable dual-leg lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with one snap hook, two rebar hooks and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.



## 4750/0241E

SafeAbsorb Xtra-Expandable Energy-Absorbing Dual-Leg Lanyard with D-Ring Extender

This expandable dual-leg lanyard stretches from 4 feet to 6 feet to help reduce trip hazards. Comes with one snap hook, two rebar hooks, a D-ring extender and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

### LANYARDS | PREMIUM SAFEABSORB XTRA-EXPANDABLE

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER		CONNECTORS		D-RING EXTENDER	STYLE		WEIGHT RATING
		INTEGRATED		SNAP HOOK	REBAR HOOK		SINGLE-LEG	DUAL-LEG	
4712-6 ★	4 ft.-6 ft.	■		2			■		310 lbs.
4712-6/0241 ★	4 ft.-6 ft.	■		1	1		■		310 lbs.
4750 ★	4 ft.-6 ft.	■		3				■	310 lbs.
4750/0241 ★	4 ft.-6 ft.	■		1	2			■	310 lbs.
4750/0241E	4 ft.-6 ft.	■		1	2	■		■	310 lbs.



ENERGY-ABSORBING LANYARDS

★ CORE ITEM Our best selling equipment — in stock and in demand.

# SAFEABSORB | MID-RANGE ENERGY-ABSORBING LANYARDS |

The SafeAbsorb lanyards include 6 foot web and cable offerings with external energy absorbers that meet ANSI Z359.13-2009 standards. Available with snap hooks and/or rebar hooks, allowing for a variety of attachment options. 3,600 lbs. gate rated hardware.

## WEB



**3512** ★  
SafeAbsorb Energy-Absorbing Lanyard

This mid-range 6 foot lanyard comes with two snap hooks and an external energy absorber. Designed for general-purpose work environments.



**3512-0241** ★  
SafeAbsorb Energy-Absorbing Lanyard

This mid-range 6 foot lanyard comes with one snap hook, one rebar hook and an external energy absorber. Designed for general-purpose work environments.



**3550** ★  
SafeAbsorb Energy-Absorbing Dual-Leg Lanyard

This mid-range 6 foot dual-leg lanyard comes with three snap hooks and an external energy absorber. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.



**3550-0241** ★  
SafeAbsorb Energy-Absorbing Dual-Leg Lanyard

This mid-range 6 foot dual-leg lanyard comes with one snap hook, two rebar hooks and an external energy absorber. Dual-leg style allows for 100% tie-off.

### LANYARDS | MID-RANGE WEB SAFEABSORB

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER	CONNECTORS		STYLE		WEIGHT RATING
		EXTERNAL	SNAP HOOK	REBAR HOOK	SINGLE-LEG	DUAL-LEG	
3251	4 ft.–6 ft.	■	2		■		310 lbs.
3251-0241	4 ft.–6 ft.	■	1	1	■		310 lbs.
3251-D	4 ft.–6 ft.	■	3			■	310 lbs.
3251-D-0241	4 ft.–6 ft.	■	1	2		■	310 lbs.
3510	3 ft.	■	2		■		310 lbs.
3510-0241CC	3 ft.	■	1	1	■		310 lbs.
3511	4 ft.	■	2		■		310 lbs.
3511-0241	4 ft.	■	1	1	■		310 lbs.
3512 ★	6 ft.	■	2		■		310 lbs.
3512-0241 ★	6 ft.	■	1	1	■		310 lbs.
3550 ★	6 ft.	■	3			■	310 lbs.
3550-0241 ★	6 ft.	■	1	2		■	310 lbs.
3550-4	4 ft.	■	3			■	310 lbs.
3550-4-0241	4 ft.	■	1	2		■	310 lbs.

★ **CORE ITEM** Our best selling equipment — in stock and in demand.

## CABLE



**3612**  
SafeAbsorb Energy-Absorbing Cable Lanyard

This mid-range 6 foot cable lanyard comes with two snap hooks and an external energy absorber. Designed for extra durability and is ideal for abrasive, high-heat or harsh environments.



**3612-D**  
SafeAbsorb Energy-Absorbing Dual-Leg Cable Lanyard

This mid-range 6 foot cable dual-leg lanyard comes with three snap hooks and an external energy absorber. Designed for extra durability and ideal for abrasive, high-heat or harsh environments. Dual-leg style allows for 100% tie-off.



**3612-0241**  
SafeAbsorb Energy-Absorbing Cable Lanyard

This mid-range 6 foot cable lanyard comes with one snap hook, one rebar hook and an external energy absorber. Designed for extra durability and ideal for abrasive, high-heat or harsh environments.



**3612-D-0241**  
SafeAbsorb Energy-Absorbing Dual-Leg Cable Lanyard

This mid-range 6 foot cable dual-leg lanyard comes with one snap hook, two rebar hooks and an external energy absorber. Designed for extra durability and ideal for abrasive, high-heat or harsh environments. Dual-leg style allows for 100% tie-off.

### LANYARDS | MID-RANGE CABLE SAFEABSORB

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER	CONNECTORS		STYLE		WEIGHT RATING
		EXTERNAL	SNAP HOOK	REBAR HOOK	SINGLE-LEG	DUAL-LEG	
3612	6 ft.	■	2		■		310 lbs.
3612-0241	6 ft.	■	1	1	■		310 lbs.
3612-D	6 ft.	■	3			■	310 lbs.
3612-D-0241	6 ft.	■	1	2		■	310 lbs.

### LANYARDS | MID-RANGE ROPE SAFEABSORB

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER	CONNECTORS		STYLE		WEIGHT RATING
		EXTERNAL	SNAP HOOK	REBAR HOOK	SINGLE-LEG	DUAL-LEG	
3450-5-0240	5 ft.	■	1	2		■	310 lbs.

Our economy lanyard is available with an external energy absorber or integrated energy absorber. Choose from 3 foot, 4 foot, or 6 foot lengths and single-leg or dual-leg options. Available with snap hooks and/or rebar hooks, allowing for a variety of attachment options. Meets the requirements of ANSI Z359.1-2007 standard. 3,600 lbs. gate rated hardware.

## INTEGRATED ENERGY ABSORBER



**209712** ★  
SafeLight Energy-Absorbing Lanyard

This entry-level 6-foot low-profile (tubular) lanyard comes with two snap hooks and integrated energy absorption. Designed for general-purpose work environments.



**209712-0241** ★  
SafeLight Energy-Absorbing Dual-Leg Lanyard

This entry-level 6-foot low-profile (tubular) lanyard comes with one snap hook, one rebar hook and integrated energy absorption. Designed for general-purpose work environments.



**209750** ★  
SafeLight Energy-Absorbing Dual-Leg Lanyard

This entry-level 6-foot low-profile (tubular) lanyard comes with three snap hooks and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.



**209750-0241** ★  
SafeLight Low-Profile Energy-Absorbing Dual-Leg Lanyard

This entry-level 6-foot low-profile (tubular) lanyard comes with one snap hook, two rebar hooks and integrated energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

### LANYARDS | ENTRY-LEVEL INTEGRATED SAFELIGHT

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER	CONNECTORS		STYLE		WEIGHT RATING
			INTEGRATED	SNAP HOOK	REBAR HOOK	SINGLE-LEG	
209711	4 ft.	■	2		■		310 lbs.
209711-0241	4 ft.	■	1	1	■		310 lbs.
209712 ★	6 ft.	■	2		■		310 lbs.
209712-0241 ★	6 ft.	■	1	1	■		310 lbs.
209750 ★	6 ft.	■	3			■	310 lbs.
209750-0241 ★	6 ft.	■	1	2		■	310 lbs.
209750-4	4 ft.	■	3			■	310 lbs.
209750-4-0241	4 ft.	■	1	2		■	310 lbs.

## EXTERNAL ENERGY ABSORBER



**209512** ★  
SafeLight Energy-Absorbing Lanyard

This entry-level 6 foot lanyard comes with two snap hooks and an external energy absorber. Designed for general-purpose work environments.



**209512-0241** ★  
SafeLight Energy-Absorbing Lanyard

This entry-level 6 foot lanyard comes with one snap hook, one rebar hook and an external energy absorber. Designed for general-purpose work environments.



**209550** ★  
SafeLight Energy-Absorbing Dual-Leg Lanyard

This entry-level 6-foot low-profile (tubular) lanyard comes with three snap hooks and an external energy absorption. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.



**209550-0241** ★  
SafeLight Energy-Absorbing Dual-Leg Lanyard

This entry-level 6-foot dual-leg lanyard comes with two rebar hooks, one snap hook and an external energy absorber. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.

### LANYARDS | ENTRY-LEVEL EXTERNAL SAFELIGHT

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER	CONNECTORS			STYLE		WEIGHT RATING	
			EXTERNAL	SNAP HOOK	REBAR HOOK	ROPE GRAB	SINGLE-LEG		DUAL-LEG
209510 ★	3 ft.	■		2			■	310 lbs.	
209511	4 ft.	■		2			■	310 lbs.	
209511-0241	4 ft.	■		1	1		■	310 lbs.	
209512 ★	6 ft.	■		2			■	310 lbs.	
209512-0241 ★	6 ft.	■		1	1		■	310 lbs.	
209550 ★	6 ft.	■		3				■	310 lbs.
209550-0241 ★	6 ft.	■		1	2			■	310 lbs.
209550-4	4 ft.	■		3				■	310 lbs.
209550-4-0241	4 ft.	■		1	2			■	310 lbs.

★ CORE ITEM Our best selling equipment — in stock and in demand.

Because no two work environments are exactly the same, 3M offers a variety of unique specialty lanyards designed to suit your specific needs. With a variety of options offering the same quality protection and construction, the choice is yours.

## TIE-BACK [ANCHOR/LANYARD COMBO]

Tie-back lanyards offer a two-in-one solution by combining your lanyard and anchorage connector into one superior-quality, high-strength fall arrest unit. Tie-backs not only reduce inventory and cost, they offer greater versatility while still meeting industry safety requirements.

Meets requirements of ANSI Z359.13-2009 standard.



### 3812 ★

Tie-Back Energy-Absorbing Lanyard

This is a 6 foot lanyard with one snap hook, one tie-back hook, an external energy absorber and integral anchoring capabilities. Designed for general-purpose work environments. 5,000 lbs. rated hardware.



### 3813 ★

Tie-Back Energy-Absorbing Dual-Leg Lanyard

This is a 6 foot dual-leg lanyard with one snap hook, two tie-back hooks, an external energy absorber and integral anchoring capabilities. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off. 5,000 lbs. rated hardware.



### 3560 ★

Tie-Back Energy-Absorbing Dual-Leg Lanyard

This is a 6 foot dual-leg lanyard with three snap hooks, an external energy absorber and integral anchoring capabilities. Designed for general-purpose work environments. Dual-leg style allows 100% tie-off. 3,600 lbs. gate rated hardware.



### 3561

Tie-Back Energy-Absorbing Dual-Leg Lanyard

This is a 6 foot lanyard that comes with two snap hooks, an external energy absorber, and integral anchoring capabilities. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off. 3,600 lbs. gate rated hardware.

#### LANYARDS | SPECIALTY — TIE-BACK

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER EXTERNAL	CONNECTORS		STYLE		WEIGHT RATING
			SNAP HOOK	TIE-BACK CARABINER	SINGLE-LEG	DUAL LEG	
3560 ★	6 ft.	■	3			■	310 lbs.
3561	6 ft.	■	2		■		310 lbs.
3812 ★	6 ft.	■	1	1	■		310 lbs.
3813 ★	6 ft.	■	1	2		■	310 lbs.

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## SATURN [HIGH HEAT]

The Saturn lanyard is specifically constructed to provide char resistance. Use with the Saturn harness for high-heat applications. Uniquely designed Nomex® and polyester web resists spatter up to 700°F. Saturn High-Heat Energy-Absorbing Lanyards 3520 and 3520-D meet requirements of ANSI Z359.13-2009 standard.



### 3520 ★

Saturn High-Heat Energy-Absorbing Lanyard

This 6 foot lanyard is specifically designed for high-heat applications to provide char resistance up to 700°F. Comes with two snap hooks and an external energy absorber.



### 3520-D

Saturn High-Heat Energy-Absorbing Dual-Leg Lanyard

This 6 foot dual-leg lanyard is specifically designed for high-heat applications to provide char resistance up to 700°F. Comes with three snap hooks and an external energy absorber. Dual-leg style allows for 100% tie-off.



### 3531

Saturn High-Heat Energy-Absorbing Lanyard

This 6 foot lanyard is specifically designed for high-heat applications to provide char resistance up to 700°F. Comes with one snap hook, one rebar hook and an external energy absorber.



### 3531-D ★

Saturn High-Heat Energy-Absorbing Dual-Leg Lanyard

This 6 foot dual-leg lanyard is specifically designed for high-heat applications to provide char resistance up to 700°F. Comes with one snap hook, two rebar hooks and an external energy absorber. Dual-leg style allows for 100% tie-off.

#### LANYARDS | SPECIALTY — SATURN

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER EXTERNAL	CONNECTORS		STYLE		WEIGHT RATING
			SNAP HOOK	REBAR HOOK	SINGLE-LEG	DUAL-LEG	
3520 ★	6 ft.	■	2		■		310 lbs.
3520-D	6 ft.	■	3			■	310 lbs.
3531	6 ft.	■	1	1	■		400 lbs.
3531-D ★	6 ft.	■	1	2		■	400 lbs.

ENERGY-ABSORBING LANYARDS



## APACHE [USE WITH APACHE HARNESS]

The Apache lanyard is engineered and manufactured for workers who are 311 lbs.–400 lbs. (total working weight). Must be used with a 400 lbs. capacity harness, such as the 3M™ Apache Harness.



## PERSONAL ENERGY ABSORBERS

Personal energy absorbers are the “shock pack”/energy absorber and are 18 inches or 24 inches long. These compact lanyards are ideal for use in aerial lifts, bucket trucks, vertical lifelines and leading edges when a short lanyard is preferred. See page 53 for additional information for use on leading edges.



### 3530-E ★

#### Apache Energy-Absorbing Lanyard

This 6 foot lanyard is for workers 311 lbs.–400 lbs. (total working weight). Comes with two snap hooks and an external energy absorber. Designed for general-purpose work environments. Use with a 400 lbs.–capacity harness.



### 3530-E-0241

#### Apache Energy-Absorbing Lanyard

This 6 foot lanyard is for workers 311 lbs.–400 lbs. (total working weight). Comes with one snap hook, one rebar hook and an external energy absorber. Designed for general-purpose work environments. Use with a 400 lbs.–capacity harness.



### 3530-DE

#### Apache Energy-Absorbing Dual-Leg Lanyard

This 6 foot dual-leg lanyard is for workers 311 lbs.–400 lbs. (total working weight). Comes with three snap hooks and an external energy absorber. Designed for general-purpose work environments. Use with a 400 lbs.–capacity harness. Dual-leg style allows for 100% tie-off.



### 3530-DE-0241

#### Apache Energy-Absorbing Dual-Leg Lanyard

This 6 foot dual-leg lanyard is for workers 311 lbs.–400 lbs. (total working weight). Comes with two rebar hooks, one snap hook and an external energy absorber. Designed for general-purpose work environments. Use with a 400 lbs.–capacity harness. Dual-leg style allows 100% tie-off.

## POWERSTOP

[12 FOOT FREEFALL FOR FOOT-LEVEL ANCHOR]

When you need to connect to an anchorage connector at foot level, the Powerstop lanyards safely arrest forces of a 12 foot freefall that are generated with working surface tie-off. Meets requirements of the ANSI Z359.13-2009 standard.

### 3530 ★

#### Powerstop Energy-Absorbing Lanyard

This 6 foot lanyard arrests forces of a 12 foot freefall that are generated with working surface tie-off. Comes with two snap hooks and an external energy absorber. Designed for general-purpose work environments.



### 3530-D

#### Powerstop Energy-Absorbing Dual-Leg Lanyard

This 6 foot dual-leg lanyard arrests forces of a 12 foot freefall that are generated with working surface tie-off. Comes with three snap hooks. Designed for general-purpose work environments. Dual-leg style allows for 100% tie-off.



### 3012 ★

#### Personal Energy Absorber

This fall protection personal energy absorber is 18 inches and has a snap hook and D-ring.



### 3011-C2

#### Personal Energy Absorber

This fall protection personal energy absorber is 24 inches and has two snap hooks.



### LANYARDS | SPECIALTY — APACHE

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER	CONNECTORS		STYLE		WEIGHT RATING
		EXTERNAL	SNAP HOOK	REBAR HOOK	SINGLE-LEG	DUAL-LEG	
3530-E ★	6 ft.	■	2		■		400 lbs.
3530-E-0241	6 ft.	■	1	1	■		400 lbs.
3530-DE	6 ft.	■	3			■	400 lbs.
3530-DE-0241	6 ft.	■	1	2		■	400 lbs.

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### LANYARDS | SPECIALTY — POWERSTOP

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER	CONNECTORS	STYLE		WEIGHT RATING
		EXTERNAL	SNAP HOOK	SINGLE-LEG	DUAL-LEG	
3530 ★	6 ft.	■	2	■		310 lbs.
3530-D	6 ft.	■	3		■	310 lbs.

### SPECIALTY | PERSONAL ENERGY ABSORBERS AND LANYARDS

PRODUCT NUMBER	LENGTH	ENERGY ABSORBER	CONNECTORS		FALL ARRESTER	D-RING	WEIGHT RATING
		EXTERNAL	SNAP HOOK	SOFT LOOP			
3011-C	18 in.	■	1	1			310 lbs.
3011-C2	24 in.	■	2				310 lbs.
3011-RGA	24 in.	■	1		■		310 lbs.
209510/124	36 in.	■	1		■		310 lbs.
3012 ★	18 in.	■	1			■	310 lbs.

# Restraint, from a position of strength.

## POSITIONING DEVICES

3M positioning devices keep you connected. Our rebar assemblies and positioning lanyards and belts operate in horizontal or vertical positions, enabling users to work with both hands free and improve productivity. Various lengths and connectors are available. With 3M positioning devices, working safe and being productive go hand in hand.



### 2011

#### Positioning Belt with Waist D-rings

Positioning belts are part of a positioning or travel restraint system. This belt has 3 inch yellow web padding and two waist D-rings. 400 lbs. capacity. Available in sizes Small to XX-Large.



### SP3710-S ★

#### Rebar Positioning Chain Assembly

This 13-link rebar chain assembly for positioning only. Its swivel rebar hook allows for a wider range of movement. Features two snap hooks and one rebar hook. 400 lbs. capacity.



### 3212 ★

#### Web Positioning Lanyard

Web lanyard is 6 feet long and 1 inch wide. Features two snap hooks. 400 lbs. capacity.



### 3708-SBH

#### Positioning Equipment Spreader Bar Hook with Carabiner 3708-SBH

For positioning only. It brings waist D-rings closer together at the front of a harness. The carabiner connects to the anchorage or anchorage connector.



### 3709-SBH

#### Rebar Positioning Web Lanyard with Spreader Bar Hook and Rebar Hook

For positioning only. It brings waist D-rings closer together at the front of a harness. The large rebar hook connects to the anchorage or anchorage connector.



*Warning: Web positioning belts, lanyards and assemblies are for positioning only and must never be used for personal fall arrest.*

## POSITIONING DEVICES

	PRODUCT NUMBER	SIZE					SERIES				CONNECTORS		BELT	WEIGHT RATING	LENGTH
		S	M	L	XL	XXL	WEB	CABLE	ROPE	CHAIN	SNAP HOOKS	SWIVEL REBAR HOOK			
Positioning Belts	2011	■	■	■	■	■							Yes	400 lbs.	—
	2111	■	■	■	■								Yes	400 lbs.	—
	2410	■	■	■	■	■							Yes	400 lbs.	—
Positioning Lanyards	3110									■	■		No	400 lbs.	3 ft.
	3111									■	■		No	400 lbs.	4 ft.
	3112									■	■		No	400 lbs.	6 ft.
	3210						■				■		No	400 lbs.	3 ft.
	3211						■				■		No	400 lbs.	4 ft.
	3212 ★						■				■		No	400 lbs.	6 ft.
	3250 ★						■				■		No	400 lbs.	4-6 ft.
3312							■				■		No	400 lbs.	6 ft.
Rebar Assemblies	3710-S										■	■	No	400 lbs.	13 links
	SP3610-S						■				■	■	No	400 lbs.	28 inches
	SP3706-S									■	■	■	No	400 lbs.	6 links
	SP3710-S ★										■	■	No	400 lbs.	13 links

Positioning spreader bar hooks also available, as shown above with SKUs 3708-SBH and 3709-SBH.

★ **CORE ITEM** Our best selling equipment — in stock and in demand.

# A secure connection for confidence while working.

## ANCHORAGE CONNECTORS

As soon as you attach yourself to a 3M™ Fall Protection anchorage connector, it's hard not to grow attached to that feeling of safety. Knowing you're secure helps you to confidently get the job done. Whether it's a rooftop or beam, concrete or steel, you'll feel as grounded as you did the moment before you started the climb up.



## CONSIDERATIONS FOR CHOOSING AN ANCHORAGE CONNECTOR:

### 1 Will the anchor need to be temporary, permanent or removable?

#### TEMPORARY ANCHORS

are designed to be used on one job site. Upon job completion, they can be integrated into the structure and cannot be removed. Intended for single job use.

#### PERMANENT ANCHORS

are installed once and can either be removed upon job completion or left on the structure for future reuse.

#### REMOVABLE ANCHORS

can be easily inserted and removed throughout the job or at the end of the job, enabling workers to reuse the anchor at various places.

### 2 What surface are you connecting to — steel, concrete, roof, etc.?



#### CONCRETE

Available in temporary, permanent or removable applications for horizontal or vertical surfaces.



#### ROOFING

Temporary and removable options available for wood and/or metal decking on flat or pitched roofs.



#### I-BEAM

All of our I-Beam anchors are removable. Fixed or mobile options available.



#### PIPE or REBAR

All of our pipe anchors are removable. Fixed or mobile options available.



#### STEEL

Available in permanent or removable applications for horizontal or vertical surfaces.

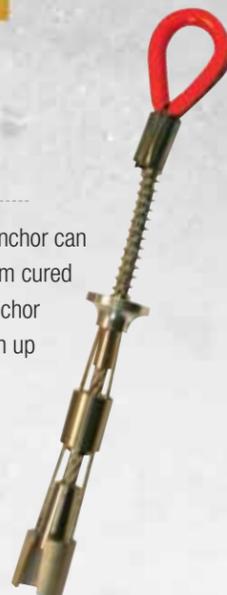
For many fall protection systems, an anchorage connector needs to be compatible with cured concrete or concrete-forming work. 3M provides solutions to this need. 3M reusable concrete anchors are engineered with strength, security and flexibility in mind and designed for easy insertion and removal. The concrete bolt anchors can be used in temporary or permanent applications. The durable concrete anchor straps are available in varying lengths to conform to your needs. This economical option provides mounting options to concrete ceilings, walls and floors. With a 3M concrete anchorage connector, the greatest component of fall protection is peace of mind.



**4077** ★  
SafeClaw™ Reusable Concrete Anchorage Connector

This fall protection reusable concrete anchor can easily be inserted into and removed from cured concrete to quickly provide a secure anchor point. Provides movement flexibility with up to 90° of flex.

- Drill hole dimensions: 1 inch width x 4-1/2 inch depth
- Concrete must have compressive strength of at least 3,000 psi
- Minimum tensile breaking strength: 10,000 lbs.
- Can be used with 3M horizontal lifeline systems



**4075** ★  
SafeClaw™ Reusable Concrete Anchorage Connector

This fall protection reusable concrete anchor can easily be inserted into and removed from cured concrete to quickly provide a secure anchor point. Provides movement flexibility with up to 90° of flex.

- Drill hole dimensions: 3/4 inch width x 3 inch depth
- Concrete must have compressive strength of at least 3,000 psi
- Minimum tensile breaking strength: 5,000 lbs.



**4012-C** ★  
Mega Swivel Concrete Anchorage Connector

This fall protection concrete bolt anchorage connector is for use in temporary, permanent and reusable applications. Design includes a swivel D-ring for 360° movement that is combined with an anchor bolt.

- Drill hole dimensions: 3/4 inch x 4-1/2 inches deep
- Concrete must have compressive strength of at least 3,000 psi and minimum thickness of 5 inches.
- Minimum tensile breaking strength: 5,000 lbs.

**4012-RC**  
Six piece Replacement Concrete Bolt Set

For 4012-C Mega Swivel Concrete Anchorage Connector. Allows user to reuse swivel D-ring from anchorage connector in different locations.



**4011** ★  
SafeLok Reusable Anchorage Connector

This reusable anchor can easily be inserted into and removed from precast or hollow-core concrete to form a secure anchor point. It can also be used on steel beams. Provides movement flexibility with up to 90° of flex.

- Drill hole dimensions: Drill a 3/4 inch-diameter hole through center of hollow-core or 1-1/2 inch concrete with a minimum compressive strength of 5,000 psi.
- Minimum tensile breaking strength: 5,000 lbs.



**4823** ★  
Concrete Anchor Strap

This fall protection concrete anchor strap is a low-cost temporary anchorage connector for concrete-forming work. Designed to be cut and removed upon job completion. Includes a steel D-ring and soft loop with wear pad.

- 4 foot length x 2 inch width
- Minimum tensile breaking strength: 5,000 lbs.
- Wear pad for improved abrasion resistance
- Also available in other lengths

- 4823-8 Concrete Anchor Strap — 8 feet
- 4823-12 Concrete Anchor Strap — 12 feet
- 4823-16 Concrete Anchor Strap — 16 feet



**4824**  
Concrete Anchor Strap

This fall protection concrete anchor strap is a low-cost temporary anchorage connector for concrete-forming work. Designed to be cut and removed upon job completion. Includes a steel D-ring and soft loop.

- 4 foot length x 2 inch width
- Minimum tensile breaking strength: 5,000 lbs.



**4825**  
Concrete Anchor Strap

This fall protection concrete anchor strap is a low-cost temporary anchorage connector for concrete-forming work. Designed to be cut and removed upon job completion. Includes two soft loop ends.

- 4 foot length x 2 inch width
- Minimum tensile breaking strength: 5,000 lbs.

Whether you're working on a roof that's commercial or residential, 3M roofing anchorage connectors are an essential part of your fall protection system. We offer a variety of roofing anchor options to accommodate the variety of different roofs — be they steel or wood, pitched or flat. From swivel-top to standing-seam, 3M roofing anchors deliver strong, durable connections without affecting structural integrity. 3M roof anchorage connectors keep you secure so you can work confidently.



**SINGLE-USE (TEMPORARY) ROOF ANCHORAGE CONNECTORS**



**4651X** ★  
Single-use Economy Roof Anchorage Connector

This fall protection roof anchor is a single-use economy anchor for use on wood only.

- Minimum tensile breaking strength: 1,800 lbs.
- Easy roof top installation
- Surface: Roofing — wood only

**REUSABLE ROOF ANCHORAGE CONNECTORS**



**4009**  
Reusable Standing Seam Roof Anchorage Connector

This fall protection reusable anchorage connector is for use on sloped or flat standing seams with self-retracting lanyards up to 50 feet long. The standing seam anchor allows 360° movement with a self-retracting lanyard. Adjusts 24 inches – 36 inches.

- Minimum tensile breaking strength: 5,000 lbs.



**4000** ★  
Reusable Roof Anchorage Connector

This economical fall protection roof anchorage connector is a reusable anchor with hinged steel design for use on wood and metal decking.

- Minimum tensile breaking strength: 5,000 lbs.
- Easy rooftop installation & removal
- Can be used as part of a 3M horizontal lifeline
- Suitable for flat or pitched roofs

**PERMANENT ROOF ANCHORAGE CONNECTORS**



**4100**  
Permanent Roof Anchorage Connector — Small

This fall protection roof anchor is a permanent anchor that includes a flashing base and cover and is intended for use on wood only.

- Product dimensions: 2 inches x 4 inches
- Minimum tensile breaking strength: 3,600 lbs.

**4101**  
Permanent Roof Anchorage Connector — Large

This fall protection roof anchor is a permanent anchor that includes a flashing base and cover and is intended for use on wood only.

- Product dimensions: 2 inches x 8 inches
- Minimum tensile breaking strength: 3,600 lbs.

★ **CORE ITEM** Our best selling equipment — in stock and in demand.

3M I-Beam anchorage connectors are a main component of many on-site fall protection systems. Designed for dependable attachment to I-Beams, these anchors are an adaptable means of rigging both temporary and reusable safety systems. 3M I-Beam anchors offer secure, portable and reliable connection to beams of varying width.



**4650-3** ★  
**BeamWalk Adjustable Sliding Beam Anchorage Connector**

BeamWalk adjustable sliding anchor provides horizontal mobility on I-Beams. Lightweight aluminum construction, quick and easy installation. Adjusts from both sides. Beveled sliders allow smooth movement along the beam, moving with the worker.

- Fits beams from 3-1/2 inches to 12 inches wide and up to 1-1/4 inches thick
- Minimum tensile breaking strength: 5,000 lbs.



**4650-2V** ★  
**Vertical Beam Clamp Anchorage Connector**

Stationary beam anchor provides a fixed anchor point for an I- or H-Beam in vertical or horizontal position.

- Fits beams up to 12 inches wide and 1 inch thick
- Minimum tensile breaking strength: 5,000 lbs.

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Available in several lengths for varying applications, 3M pipe and rebar anchorage connectors are made to wrap around structures to form secure anchor points. 3M pipe and rebar anchor points may be used in horizontal and vertical applications. All our anchor points are ideally suited for quick installations, making convenience and ease highlights.



**4550-U-6** ★  
Heavy-Duty Cross-Arm-Strap Anchorage Connector

This fall protection 6 foot heavy-duty cross-arm strap is a low-cost general-purpose anchorage connector with wear pad designed to wrap around structures for a secure anchor point. Convenient and ideally suited for quick and easy installations.

- 1-3/4 inch width
- Minimum tensile breaking strength: 5,000 lbs.
- Also available in a 3 foot length and in custom lengths in 2 foot increments up to 20 feet. Contact your 3M Representative for more information.

**4550-U-3** Heavy-Duty Cross-Arm-Strap Anchor — 3 feet



**4550-6** ★  
Cross-Arm-Strap Anchorage Connector

This fall protection 6 foot cross-arm strap is a low-cost general-purpose anchorage connector designed to wrap around structures for a secure anchor point. Convenient and ideally suited for quick and easy installations.

- 1-3/4 inch width
- Minimum tensile breaking strength: 5,000 lbs.
- Also available in a 3 foot length and in custom lengths in 2 foot increments up to 20 feet. Contact your 3M Representative for more information.

**4550-3** Cross-Arm-Strap Anchor — 3 feet



**4550-A**  
Adjustable Cross-Arm-Strap Anchorage Connector

This fall protection adjustable 4 foot to 6 foot cross-arm strap is a low-cost general-purpose anchorage connector designed to wrap around structures for a secure anchor point. Convenient and ideally suited for quick and easy installations.

- 4 foot to 6 foot length x 1-3/4 inch width
- Minimum tensile breaking strength: 5,000 lbs.



**4551**  
Scaffolding Cross-Arm-Strap Anchorage Connector

This fall protection scaffolding cross-arm strap is a low-cost general-purpose anchorage connector designed to wrap around 3 inch maximum diameter structures. Convenient and ideally suited for quick and easy installations.

- 1-1/2 foot length x 1 inch width
- Minimum tensile breaking strength: 5,000 lbs.



**4550-E** ★  
Apache Cross-Arm-Strap Anchorage Connector

This fall protection cross-arm strap is a low-cost general-purpose anchorage connector with a 3 inch wear pad designed to wrap around structures for a secure anchor point. Convenient and ideally suited for quick and easy installations.

- 6 foot length x 1-3/4 inch width
- Minimum tensile breaking strength: 5,000 lbs.



**4550-SCS-6** ★  
Cable Pass Thru Cross-Arm-Strap Anchorage Connector

This fall protection 6 foot cable cross-arm strap is a low-cost general-purpose anchorage connector designed to wrap around typical I-Beam or pipe application for overhead tie-off. Cable provides additional durability. Suited for quick and easy installations.

- 1/4 inch width galvanized steel cable
- Minimum tensile breaking strength: 5,000 lbs.
- Also available in a 4 foot length

**4550-SCS-4** Cable Pass Thru Cross-Arm-Strap Anchorage Connector — 4 feet



**251**  
Manuclave Anchor Clamp

This fall protection anchor clamp is a spring loaded stainless steel wire clamp for use on pipe. Suited for quick and easy installations. Provides increased fall clearance versus a cross-arm-strap anchor.

- For use on pipes up to 4 inches in diameter
- Minimum tensile breaking strength: 5,000 lbs.

**252**  
Manuclave Anchor Clamp

- For use on pipes up to 6 inches in diameter
- Minimum tensile breaking strength: 5,000 lbs.

★ **CORE ITEM** Our best selling equipment — in stock and in demand.

3M™ Fall Protection is dedicated to providing you steel anchorage connectors that meet the demands of the job.

We offer a wide variety of permanent, temporary, and reusable anchorage connectors. These heavy-duty steel devices are designed to be lightweight, easily installed and reliable to give you the confidence to take on risk.



**4011** ★  
SafeLok Reusable Anchorage Connector

This fall protection reusable anchor can easily be inserted into and removed from precast or hollow-core concrete to form a secure anchor point. It can also be used on steel beams.

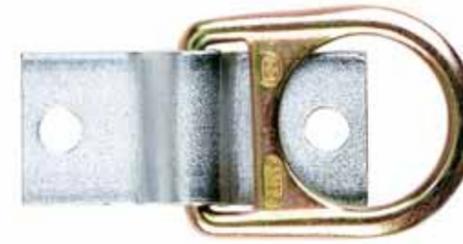
- Drill-hole dimensions: Drill a 3/4 inch diameter hole through center of hollow-core or 1-1/2 inch concrete with a minimum compressive strength of 5,000 psi.
- Minimum tensile breaking strength: 5,000 lbs.



**4012-S** ★  
Mega Swivel Steel Bolt Anchorage Connectors

This fall protection anchor can be used in temporary and reusable applications. Design includes a swivel D-ring for 360° that is combined with a steel anchor bolt.

- Drill hole 5/8 inch with steel that is a minimum thickness of 1/4 inch
- Minimum tensile breaking strength: 10,000 lbs.



**4004**  
Permanent D-Bolt Anchorage Connector

This fall protection anchor is for use on concrete, metal or wood surfaces. Design includes a D-bolt with mounting plate and floating D-ring for anchor tie-off. This permanent anchor can be bolted or welded to a structure.

- Minimum tensile breaking strength: 5,000 lbs.



**4005** ★  
Permanent D-Bolt Anchorage Connector

This fall protection anchor is for use on concrete, metal or wood surfaces. Design includes D-bolt anchor with 1-1/2 inch diameter bolt, nut and washer hardware. This permanent anchor can be bolted or welded to a structure.

- Minimum tensile breaking strength: 5,000 lbs.



**FS-92**  
Anchorage Connector

This temporary and reusable fall protection anchorage connector can be connected to any anchor that meets 3,600 lbs. or 5,000 lbs. requirements. Its shape is ideal for peri form, a concrete-forming panel, and fits in the hole of the panel. Design includes 1-1/2 inch eye diameter and 3-1/3 inch anchorage opening. Length: 12-1/8 inch.

- Minimum tensile breaking strength: 5,000 lbs.



★ **CORE ITEM** Our best selling equipment — in stock and in demand.

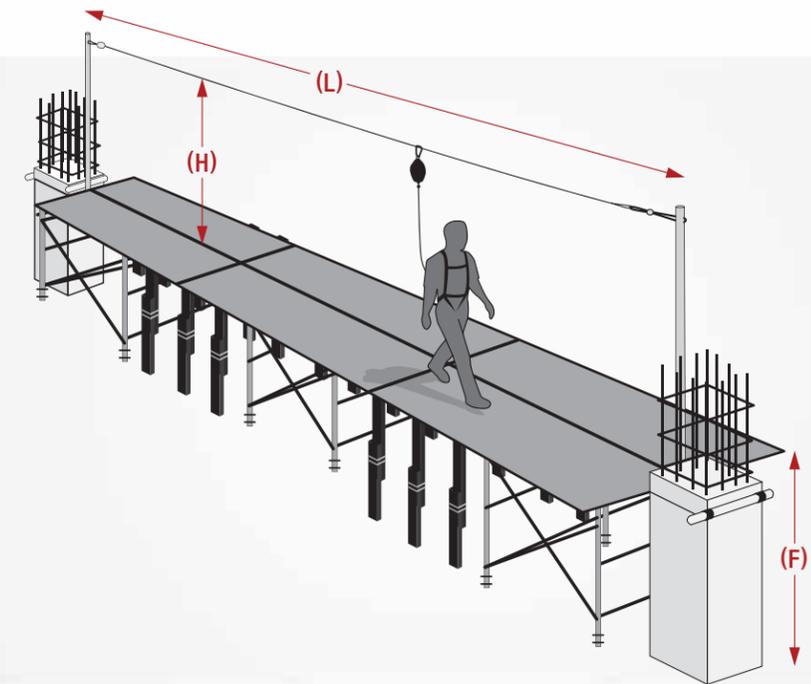
# Going to great lengths to ensure your safety.

## HORIZONTAL LIFELINES

Horizontal lifeline systems are used to protect workers when they are exposed to a fall hazard along a horizontal plane and access to overhead anchor points is limited. Horizontal lifelines are pre-engineered and designed as part of a complete personal fall arrest system to help limit the fall arrest forces in the event of a fall. They can be used for fall arrest or travel restraint.



## CONSIDERATIONS FOR CHOOSING A HORIZONTAL LIFELINE SYSTEM:



- 1 What is the maximum number of workers using the system at one time?**  
**Up to two people** — choose a rope or cable lifeline.
  - Rope (ideal for indoor use) — choose our Sidewalk Rope System (100 foot maximum), page 86
  - Cable (ideal for outdoor use) — choose our SafeReach System (100 foot maximum), page 87, or our Mobile Skywalk System, page 82.**Up to four people** — choose our Mobile Skywalk System, page 82.

- 2 What is the total system length (anchor point to anchor point)? (L)**  
 A variety of rope and cable lengths are available.

### ADDITIONAL CONSIDERATIONS, IF CHOOSING A MOBILE SKYWALK SYSTEM:

- 3 What is the total system length (anchor point to anchor point)? (L)**  
**Less than 200 ft.** — requires one PowerBrake.  
**200 ft. or greater** — requires a second PowerBrake.
- 4 What is the height of the walking/working surface to the ground or danger level? (F)**  
 This determines the number of intermediates required.
- 5 What is the height of the walking/working surface to the proposed anchorage? (H)**  
 This determines the height of the stanchion.
- 6 What are the anchor points?**  
 Are prefabricated anchorages needed? See page 83 for anchorage options.  
 Are post systems needed? See page 83 for anchorage options.

*Horizontal lifeline systems are highly technical. Please contact your 3M Representative for assistance on how to select a lifeline for your work environment/application.*

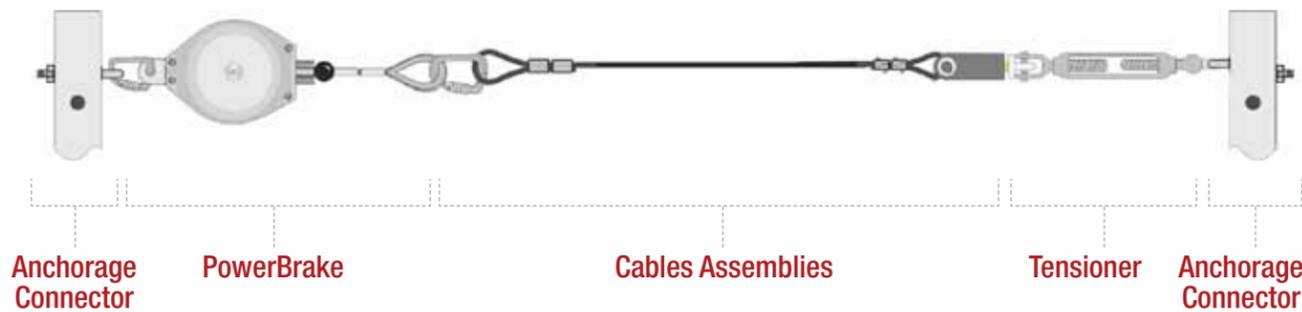
The 3M™ Mobile Skywalk system provides workers an increased working range without sacrificing safety in leading edge applications. The PowerBrake energy absorber allows for a four-man tie-off while keeping fall clearance requirements low. A versatile array of anchorage connectors have been designed for a wide range of work surfaces, including pour-in-place and pre-poured concrete. The Mobile Skywalk system also offers a permanent or a temporary cable tensioning device to help facilitate easy installation.

**The Mobile Skywalk system is ideal for more than two workers, low fall clearance requirements and/or anchoring to concrete.**



**Lifeline System Component Overview**

These lifeline system components represent the major categories needed to construct a Mobile Skywalk system. For specific parts within each category, refer to page 83.



**Anchorage Connectors**

The Mobile Skywalk system may be secured to the existing structure in a variety of ways.

- 

**SWSW-06** Stud Bracket has a receiver sleeve for the Aluminum Post Stanchion. The Stud Bracket may be attached to the base of a rebar cage, around the top of a concrete column or through a concrete wall.
- 

**SWSW-06X** Flat Surface Weld Bracket is a weldable version of the Stud Bracket SWSW-06. It is constructed with 3/4 in. thick, 14-1/2 in. by 8 in. zinc-plated steel, and Schedule 80 pipe as the receiver sleeve for the Aluminum Post Stanchion.  
Image not available
- 

**SWSW-13** PVC Sleeve is 12 in. tall with a 4 in. inside diameter, and constructed of 4 in. Schedule 40 PVC. PVC Sleeve is cast into concrete and receives the Aluminum Post Stanchion.
- 

**SWSW-29** Flat Base is designed to mount onto flat surfaces and to be used with the Aluminum Post Stanchion.
- 

**SWSW-08A** Aluminum Post Stanchion — end/intermediate stanchion is 7-1/2 ft. long with a 3-1/2 in. outside diameter. Each post has two sets of 9/16 in. holes set 4 in. apart and at 90° for the SWSW-01 Eye Bolt (not included).
- 

**SWSW-22** Swivel Cap — placed over the top of the Aluminum Post Stanchion, creates an elevated individual anchor point. A self-retracting lanyard may be attached to the Swivel Cap, allowing the user to work 360°.
- 

**SWSW-24** Skyhook Bracket clamps to #9 or larger stirrups rebar, with two 2 in. inside diameter J-bolts, at 6-1/2 ft. above the working surface. A safety strap (not shown) wraps around the rebar cage, creating an anchor point at the proper height for the Mobile Skywalk Horizontal Lifeline.
- 

**SWSW-30A** Sky Bracket is constructed with aluminum and two 30 in. threaded bars that clamp to #9 or larger stirrups rebar. Installed at 6-1/2 ft. above the working surface, it creates an anchor point at the proper height.
- 

**4077** 10,000 lbs. SafeClaw™ — reusable concrete anchorage connector can easily be inserted into and removed from cured concrete to quickly provide a secure anchor point. Provides movement flexibility and can be pulled in all directions up to 90°.
- 

**4550-U-6** Cross-Arm Anchor Strap — 6 ft. heavy-duty cross-arm strap is a low-cost general-purpose anchor with a wear pad designed to wrap around structures for a secure anchor point. 5,000 lbs. rated.

Other anchorage connector options are available for use with the Mobile Skywalk. Please contact your 3M Representative for more information.

**PowerBrake**

Engineered to maximize energy absorption and reduce forces on the end anchorages.

- 

**SWSW-18** PowerBrake — the inline energy absorber is designed to limit the maximum arrest load to less than 1,650 lbs. on the end anchorages. This is a required component.

**Cable Assemblies\***

- 

**SWSW-30** Galvanized Steel Cable for the Mobile Skywalk horizontal lifeline system. Available in 30 ft., 60 ft., 100 ft. or 200 ft. lengths. Cable assembly includes one finished swaged end and one unfinished end with two Fist Grips and a Thimble for manual termination.
- 

**SWSW-60** Stainless Steel Cable for the Mobile Skywalk horizontal lifeline systems. Available in 30 ft., 60 ft., 100 ft. or 200 ft. lengths. Cable assembly includes one finished swaged end and one unfinished end with two Fist Grips and a Thimble for manual termination.
- 

**SWSW-100** Galvanized Steel Cable for the Mobile Skywalk horizontal lifeline systems. Available in 30 ft., 60 ft., 100 ft. or 200 ft. lengths. Cable assembly includes one finished swaged end and one unfinished end with two Fist Grips and a Thimble for manual termination.
- 

**SWSW-200** Galvanized Steel Cable for the Mobile Skywalk horizontal lifeline systems. Available in 30 ft., 60 ft., 100 ft. or 200 ft. lengths. Cable assembly includes one finished swaged end and one unfinished end with two Fist Grips and a Thimble for manual termination.

**Accessories**

- 

**SWSW-11** Fist Grip — included with cable assembly to secure the unfinished end of the Mobile Skywalk Cable once adjustment is complete.
- 

**SWSW-12T** Thimble is included with cable assembly and is installed inside the loop to preserve the natural shape of the eye and protect the cable from pinching and abrading on the inside of the eye. The Thimble prevents the load from coming into direct contact with the wires. Available as a replacement part.
- 

**0216-R** Cable lifeline traveler is for cable or rope lifelines up to 1/2 in. thick.
- 

**0210-07** Carabiner required for use in connecting the PowerBrake and Cable. Must be ordered separately.
- 

**SWSW-03** The Shackle is 1/2 in. and is a cable connection point.
- 

**SWSW-10** 1/2 in. Shoulder Eye Nut attaches to the Eye Bolt SWSW-01 to create an attachment point on the opposite side of the Aluminum Post Stanchion when building congruent systems.
- 

**SWSW-01** Eye Bolt for the Aluminum Post Stanchion is 5 in. long with a 1 in. inside diameter eye and comes with a washer and nut.

**Tensioners**

- 

**SWSW-04** Turnbuckle adjusts from 18 in. to 28 in. and is used to adjust tension in the Mobile Skywalk system. Ideal for use with shorter lifeline systems.
- 

**SWSW-02** Come-Along adjusts tension in the Mobile Skywalk lifeline. It must always be used in conjunction with the SWSW-05 Adjustable Safety Link. Ideal for use with longer lifeline systems.
- 

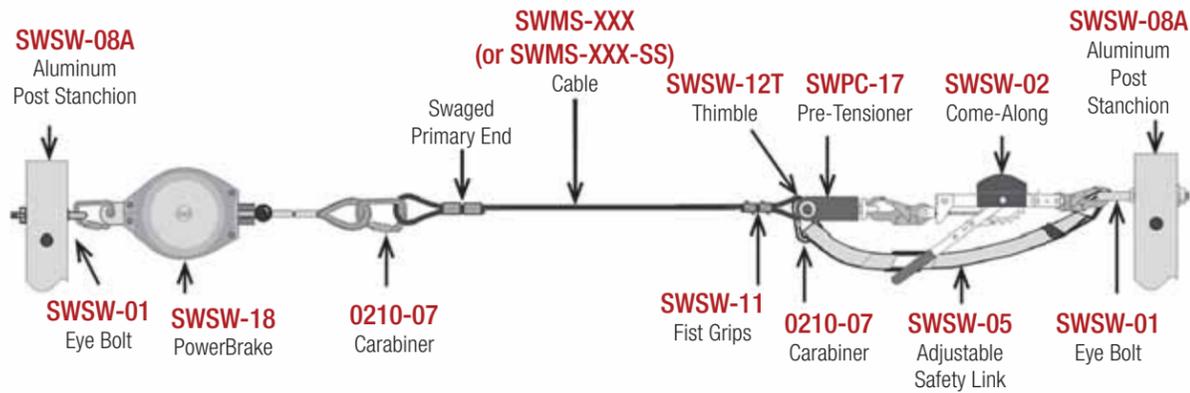
**SWSW-05** Adjustable Safety Link is constructed of 1 in. polyester webbing and is adjustable from 3 ft. to 6 ft. The Adjustable Safety Link must be used with the Come-Along. A standard carabiner (not included) on each end is used to connect it to the system.
- 

**SWPC-17** Pre-Tensioner — designed to easily identify whether the Mobile Skywalk horizontal lifeline system has been properly tensioned. Used with the Turnbuckle or Come-Along.

\*Available in early 2014. To order custom lengths prior, use product code SWSW-00 and state length required. Contact 3M Sales Representative for more information.

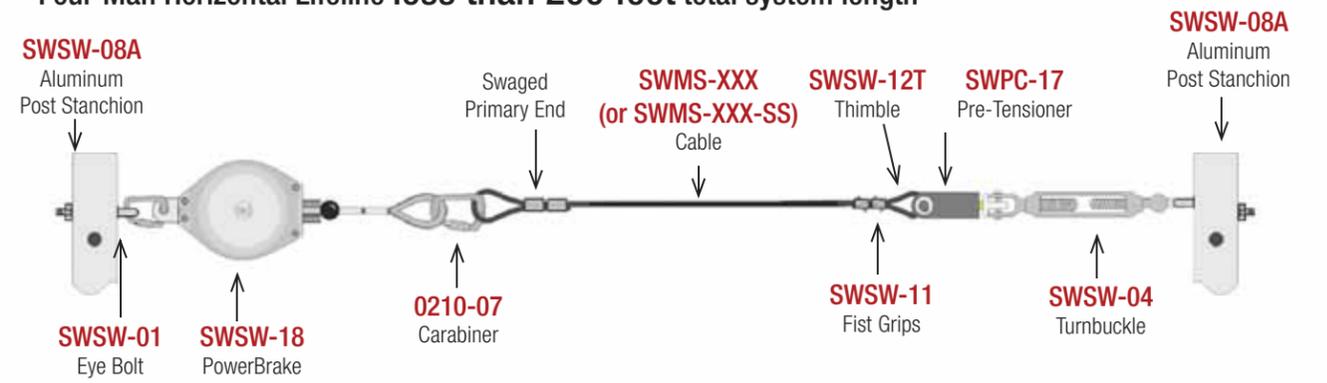
MOBILE SKYWALK KITS WITH A COME-ALONG

Four-Man Horizontal Lifeline less than 200 feet total system length



MOBILE SKYWALK KITS WITH A TURNBUCKLE

Four-Man Horizontal Lifeline less than 200 feet total system length



Come-Along Kit



Come-Along Kit includes:

Come-Along **SWSW-02**, Adjustable Safety Link **SWSW-05**, PowerBrake **SWSW-18**, Pre-tensioner Component **SWPC-17**, Galvanized or Stainless Steel Mobile Skywalk Cable Assembly **SWMS-XXX** or **SWMS-XXX-SS** (available in a variety of lengths, as specified by kits below, and includes two Fist Grips **SWSW-11** and one Thimble **SWSW-12T**), four Autolock Carabiners **0210-07**, Extra-Large Tool Bag **4701**.

Come-Along Kit #	Cable Assembly
<b>SWSWKIT1</b>	SWMS-30-SS 3M™ 30 ft. Stainless Steel Cable
<b>SWSWKIT2</b>	SWMS-30 3M™ 30 ft. Galvanized Steel Cable
<b>SWSWKIT5</b>	SWMS-60-SS 3M™ 60 ft. Stainless Steel Cable
<b>SWSWKIT6</b>	SWMS-60 3M™ 60 ft. Galvanized Steel Cable
<b>SWSWKIT9</b>	SWMS-100-SS 3M™ 100 ft. Stainless Steel Cable
<b>SWSWKIT10</b>	SWMS-100 3M™ 100 ft. Galvanized Steel Cable
<b>SWSWKIT13</b>	SWMS-200-SS 3M™ 200 ft. Stainless Steel Cable
<b>SWSWKIT14</b>	SWMS-200 3M™ 200 ft. Galvanized Steel Cable

SWSWKIT17 Kit includes:

Two PVC Sleeves **SWSW-13**, two Shoulder Eye Bolts **SWSW-01**.

Must purchase Aluminum Post Stanchion **SWSW-08** separately.



Turnbuckle Kit



Turnbuckle Kit includes:

Turnbuckle **SWSW-04**, PowerBrake **SWSW-18**, Pre-tensioner Component **SWPC-17**, Galvanized or Stainless Steel Mobile Skywalk Cable Assembly **SWMS-XXX** or **SWMS-XXX-SS** (available in a variety of lengths, as specified by kits below, and includes two Fist Grips **SWSW-11** and one Thimble **SWSW-12T**), four Autolock Carabiners **0210-07**, Extra-Large Tool Bag **4701**.

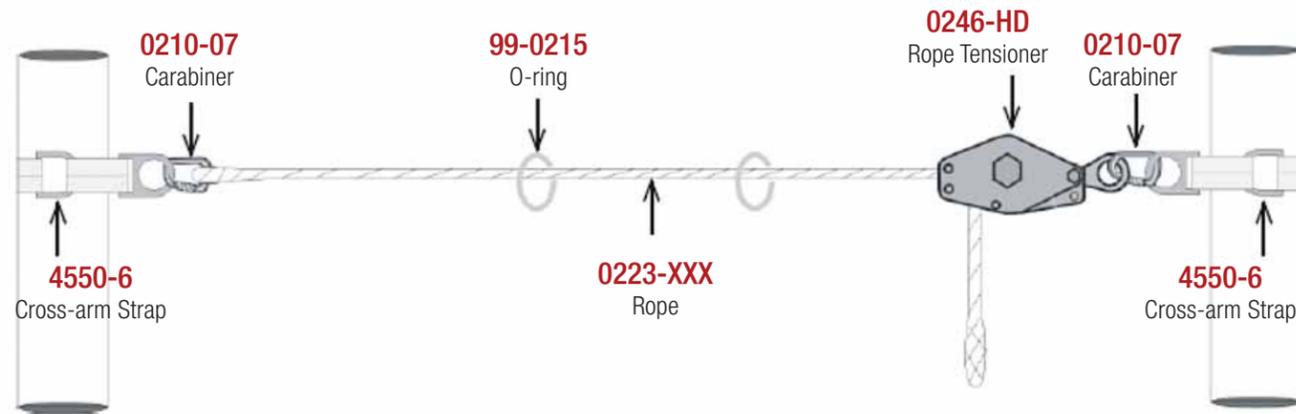
Turnbuckle Kit #	Cable Assembly
<b>SWSWKIT3</b>	SWMS-30-SS 3M™ 30 ft. Stainless Steel Cable
<b>SWSWKIT4</b>	SWMS-30 3M™ 30 ft. Galvanized Steel Cable
<b>SWSWKIT7</b>	SWMS-60-SS 3M™ 60 ft. Stainless Steel Cable
<b>SWSWKIT8</b>	SWMS-60 3M™ 60 ft. Galvanized Steel Cable
<b>SWSWKIT11</b>	SWMS-100-SS 3M™ 100 ft. Stainless Steel Cable
<b>SWSWKIT12</b>	SWMS-100 3M™ 100 ft. Galvanized Steel Cable
<b>SWSWKIT15</b>	SWMS-200-SS 3M™ 200 ft. Stainless Steel Cable
<b>SWSWKIT16</b>	SWMS-200 3M™ 200 ft. Galvanized Steel Cable

Kits shown on pages 84 and 85 will be available in early 2014.

Kits shown on pages 84 and 85 will be available in early 2014.

3M™ Two-Man Horizontal Lifeline systems are a complete lifeline system in a bag. Choose cable or rope systems based on work environment. All systems are portable and include a tensioning device to help with proper lifeline tension.

### SideWalk Rope Horizontal Lifeline System (100 Foot Max.)



**Rope system includes:**

Two cross-arm straps, two O-rings, two carabiners, tensioner, rope (available in a variety of lengths) and storage bag.

Product #	Description
SWHR-30	30 ft. horizontal rope lifeline system
SWHR-60	60 ft. horizontal rope lifeline system
SWHR-100	100 ft. horizontal rope lifeline system

All components listed above are available to order as replacement parts.

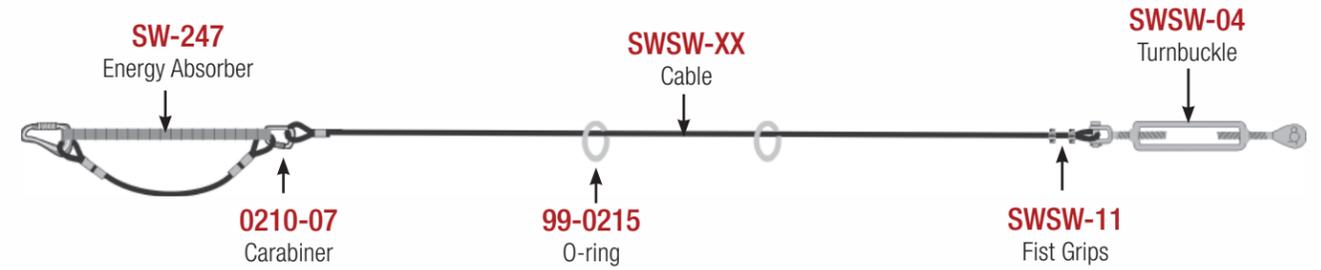
**Replacement Rope 0223-XX:**

Product #	Description
0223-30	5/8 in. replacement rope, 30 ft.
0223-60	5/8 in. replacement rope, 60 ft.



★ CORE ITEM Our best selling equipment — in stock and in demand.

### SafeReach Cable Horizontal Lifeline System (100 Foot Max.)



**Cable system includes:**

Energy absorber, turnbuckle, carabiner, large carabiner, two O-rings, galvanized cable (available in a variety of lengths), two fist grips, thimble and storage bag.

Must purchase anchors to use with this kit separately.



Product #	Description
SWHC-20	20 ft. horizontal cable lifeline system
SWHC-30	30 ft. horizontal cable lifeline system
SWHC-40	40 ft. horizontal cable lifeline system
SWHC-50	50 ft. horizontal cable lifeline system
SWHC-60	60 ft. horizontal cable lifeline system
SWHC-70	70 ft. horizontal cable lifeline system
SWHC-80	80 ft. horizontal cable lifeline system
SWHC-90	90 ft. horizontal cable lifeline system
SWHC-100	100 ft. horizontal cable lifeline system

All components listed above are available to order as replacement parts.

**Replacement Cable Assemblies SWSW-XX:**

Cable assembly includes replacement cable, one finished swaged end and one unfinished end with two Fist Grips and a Thimble for manual termination.

Product #	Description
SWMS-30	30 ft. replacement cable
SWMS-60	60 ft. replacement cable
SWMS-100	100 ft. replacement cable

# Keeping the risk low as you climb higher.

## VERTICAL LIFELINES

Vertical lifelines are needed when a worker has long vertical lengths to travel. Instead of having to disconnect and find new tie-off points as workers travel, a vertical lifeline allows them movement up and down the entire height of lifeline. They are designed as part of a complete personal fall arrest system to help limit the forces in the event of a fall.

Vertical lifelines can also be used as part of a travel restraint system.



## CONSIDERATIONS WHEN CHOOSING A VERTICAL LIFELINE:

### Do you need a permanent or portable system?

**PERMANENT** — If the system can remain in place for the duration of the job or for on-going maintenance (i.e., fixed ladder system).

**PORTABLE** — If the system needs to be removed at end of job or each day. (i.e., rope lifeline with rope fall arrester).

### Does your worker need to be mobile or is a fixed positioning device preferred?

**MOBILE** — use a self-trailing fall arrester for vertical climbing that allows for free movement and trails the worker as he or she climbs.

**FIXED** — use a manual rope adjuster that workers must physically move up and down the lifeline, keeping them in a limited work area for restraint.

The 3M™ Ladder Climb Vertical Lifeline is a pre-engineered flexible system designed to meet most vertical applications. The extended top ladder bracket allows users to safely ascend to the next working surface prior to disconnecting from the system. The ladder climb system is available in multiple-length ready-to-order systems and replacement cable and energy absorber assemblies are available. Please note the ladder climb system requires the use of a harness with front D-ring for attachment.

**Complete Systems Include:**

**RC M400-XXX** Cable Assembly (3/8 inch galvanized steel cable, energy absorber and safety backup cable), **128** Cable Fall Arrester with **0210CP-07** Carabiner, **M400-10** Extended Top Bracket, **M400-11\*** Extended Top Bracket Round Rung Hardware, **M400-2** Bottom Bracket, two **M400-3** Fist Grips, **M400-8** Thimble, **M400-5** Cable Guide

Product #	Description	Product #	Description
<b>M400-30</b>	Ladder climb system; 30 ft.	<b>M400-100</b>	Ladder climb system; 100 ft.
<b>M400-40</b>	Ladder climb system; 40 ft.	<b>M400-150</b>	Ladder climb system; 150 ft.
<b>M400-50</b>	Ladder climb system; 50 ft.	<b>M400-200</b>	Ladder climb system; 200 ft.
<b>M400-75</b>	Ladder climb system; 75 ft.	<b>M400-300</b>	Ladder climb system; 300 ft.

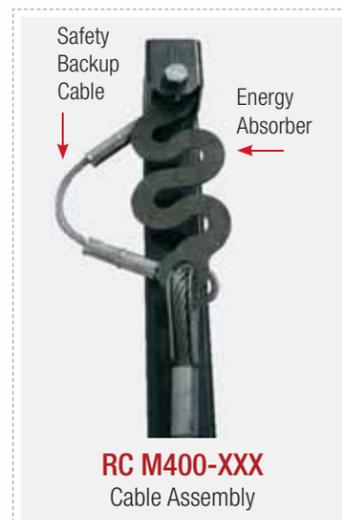
\*System comes with round rung ladder configuration hardware. If using a square rung configuration, order **M400-7** Extended Top Bracket Square Rung Hardware.

**Replacement Cable Assemblies**

**RC-M400-XXX Include:**

3/8 inch galvanized steel cable; energy absorber and safety backup cable

Product #	Description
<b>RC M400-30</b>	Replacement cable assembly; 30 ft.
<b>RC M400-40</b>	Replacement cable assembly; 40 ft.
<b>RC M400-50</b>	Replacement cable assembly; 50 ft.
<b>RC M400-75</b>	Replacement cable assembly; 75 ft.
<b>RC M400-100</b>	Replacement cable assembly; 100 ft.
<b>RC M400-150</b>	Replacement cable assembly; 150 ft.
<b>RC M400-200</b>	Replacement cable assembly; 200 ft.
<b>RC M400-300</b>	Replacement cable assembly; 300 ft.

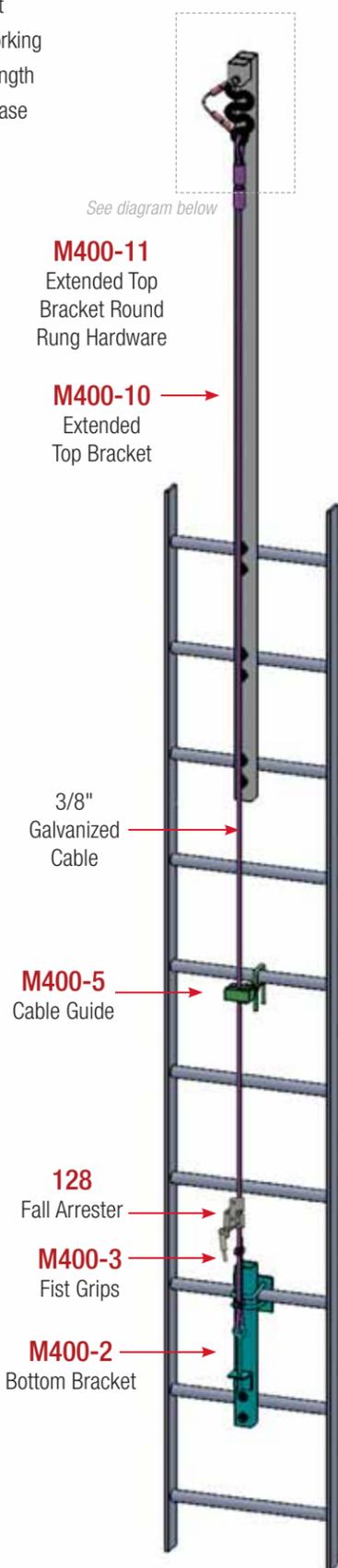


**Available Replacement Parts:**

Product #	Description	Product #	Description
<b>M400-10</b>	Extended Top Bracket	<b>M400-3</b>	Fist Grips
<b>M400-11</b>	Extended Top Bracket Round-Rung Hardware	<b>128</b>	Fall Arrester
<b>M400-7</b>	Extended Top Bracket Square-Rung Hardware		

**Fall Arrester — Cable**

Product #	Description
128	3/8 inch self-trailing cable fall arrester for automatic movement with worker. For use with 3M Ladder Climb System M400 Series. Comes with Carabiner 0210CP-07.



**Rope Lifelines**

3M™ Rope Lifeline Assemblies are constructed of 5/8 inch Polydac rope and are available in fixed lengths with one or two double-locking snap hooks. Some varieties available with manual rope adjuster.

Product #	Description
0221-25	25 ft.; Double-locking snap hook
0221-25-2	25 ft.; Two Double-locking snap hooks
0221-50	50 ft.; Double-locking snap hook
0221-50-2	50 ft.; Two Double-locking snap hooks
0221-75	75 ft.; Double-locking snap hook
0221-100	100 ft.; Double-locking snap hook
0221-100-2	100 ft.; Two Double-locking snap hooks
0221-150	150 ft.; Double-locking snap hook
0221-200	200 ft.; Double-locking snap hook

**Assemblies with 0116-1 Manual Rope Adjuster**

Product #	Description
0221-25RG	25 ft.; Double-locking snap hook, Rope adjuster
0221-50RG	50 ft.; Double-locking snap hook, Rope adjuster
0221-100RG	100 ft.; Double-locking snap hook, Rope adjuster

**Fall Arresters — Rope**

These fall arresters are self-trailing rope grabs allowing for automatic movement, trailing behind (or with) worker.

Product #	Description
123	Self-trailing 5/8 inch Fall Arrester; Large eye
124	Self-trailing 5/8 inch Fall Arrester; Small eye
129	Stainless steel self-trailing 5/8 inch Fall Arrester; Includes panic hardware
3011-RGA	124 Self-trailing 5/8 inch Fall Arrester with permanently attached 18 inch personal energy absorber
124/209509	124 Self-trailing 5/8 inch Fall Arrester with permanently attached 2 foot energy absorbing lanyard
209510/124	124 Self-trailing 5/8 inch Fall Arrester with permanently attached 3 foot personal energy absorber

**Rope Adjuster**

These rope adjusters are manual rope grabs that must be physically moved up and down by the worker. This keeps the worker in one spot for fall restraint.

Product #	Description
0113	5/8 inch stainless steel manual rope adjuster
0116-1	5/8 inch manual rope adjuster

**CORE ITEM** Our best selling equipment — in stock and in demand.

# Rugged systems that give you the confidence to handle a crisis.

## CONFINED-SPACE SYSTEMS

When working in confined spaces, the risk of injury and fatality is extremely high. Successive fatalities often come to the would-be rescuer.

Your safety precautions have to meet the highest standards. We offer the best in confined-space systems so you can confidently provide safe and secure solutions for your workers.

OSHA 1910.146(b) defines “confined space” as any space that:

- (1) Is large enough and so configured that an employee can bodily enter and perform assigned work; and
- (2) Has limited or restricted means for entry or exit (for example: tanks, vessels, silos, storage bins, hoppers, vaults and pits are spaces that may have limited means of entry) and
- (3) Not designed for continuous employee occupancy.

When the chance of a hazard is possible, the space would be considered a “permitted” space. In permitted confined spaces greater than 5 feet deep, a means of retrieval is required, and all entrants must use a full body harness. Fall protection is required in general industry when an employee is exposed to a fall hazard of 4 feet or greater. In construction, fall protection is required at 6 feet or greater.



## DESIGN CONSIDERATIONS FOR CONFINED-SPACE SYSTEMS:

### 1 Do you need a vertical or horizontal system?

#### VERTICAL ENTRY

Consider **vertical-entry solutions** if accessing the top of a tank, an underground utility vault, manhole, shaft, duct, pipe, pit or degreaser.

#### HORIZONTAL ENTRY

Consider **horizontal-entry solutions** if accessing the side of a boiler, tunnel, cellular double-bottom tank, duct keel, void space, ballast or oil tank.

### 2 If choosing a vertical-entry system, what reach and height are required?

Determine reach to the center of the entry point while considering overhead clearance limitations.

### 3 Do you need fall arrest and rescue and/or entry and retrieval devices?

**Fall arrest/rescue only:** three-way self-retracting lanyard is recommended where a ladder or other structure is present for ascending and descending the confined space.

**Entry/retrieval only:** use a three-way self-retracting lanyard or man-rated winch in spaces where no fall hazard is present.

**Fall arrest/rescue and entry/retrieval:** use a three-way self-retracting lanyard and winch in a space with a fall hazard and where no ladder is present for ascending or descending.

### 4 What type of anchor point is required?

#### Consider your environment.

Limited space? Overhead beams? Low/high traffic?

#### Consider your anchor point floor or wall materials.

Existing concrete? Fresh concrete? Thickness and PSI?

#### Consider system location and use.

Variety of work positions required? Same entry point accessed?

### 5 Do you need to protect your confined-space entry point from accidental entry?

When entrance covers are removed, the opening shall be promptly guarded by a railing, temporary cover or other temporary barrier that will prevent an accidental fall through the opening.



# OVERVIEW OF SYSTEMS AND ACCESSORIES



**Xtirpa™ ADAPTER-BASE SYSTEM**  
Fixed Mast and Davit-Arm Assembly use where base can be permanently fixed to an existing structure.



**Xtirpa™ FREE STANDING H-BASE SYSTEM**  
Use to access various confined-space entry points in same area.



**Xtirpa™ MANHOLE COLLAR SYSTEM**  
Designed for applications involving frequent setups over similarly sized access openings.



**Xtirpa™ MANHOLE GUARD SYSTEM**  
Use where an entry point needs to be guarded and when installation of an adapter base is not possible. (Anchor point is incorporated into structure of this system).



**Xtirpa™ TRAILER HITCH MOUNT SYSTEM**  
Use with vehicles to access typical vertical-entry points or rescue and retrieval over the side of a bridge or edge of settling pond.



**Xtirpa™ POLE HOIST SYSTEM**  
Use for vertical entry/retrieval or horizontal retrieval in areas of limited space.



**Xtirpa™ LOW CLEARANCE INTEGRATED MAST AND DAVIT ARM**  
Use in any of the 24 inch adapter bases when a shorter clearance is needed. 36 inch height, 18 inch reach.



**3M™ TRIPOD SYSTEM**  
Use when portability, affordability and easy installation are key decision factors.

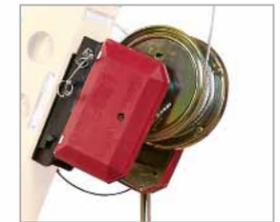


**Xtirpa™ COUNTERWEIGHT SYSTEM**  
For multiple entry point use, this system offers a 30 inch–48 inch davit arm for greater reach.

## ACCESSORIES



**3M™ SELF-RETRACTING LANYARD**  
Use for fall protection, retrieval and entry.



**3M™ MATERIAL-HANDLING WINCH**  
Material-handling winch for use in confined spaces.



**Xtirpa™ SELF-RETRACTING LANYARD AND WINCH ADAPTERS**  
Provides connection to davit arm.



**Xtirpa™ MULTI-FUNCTIONAL BARRICADE**  
Provides additional configuration options.

**Xtirpa™ RATCHET MANHOLE-COVER LIFTER**

Provides safe lifting in ergonomic position. Three hook sizes available.



# VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ 24 INCH ADAPTER-BASE SYSTEM

For work areas that require regular setup and tear-down and where a base can be permanently affixed to an existing structure, adapter-base systems are an ideal solution. These systems consist of a davit arm, mast, retrieval device and adapter base. This lightweight, reliable and easy-to-install system facilitates access to vertical confined spaces. The universal mast and davit arm allow for fall protection and retrieval and can be used and installed in many different adapter bases. The davit arm is equipped with a 5,000 lbs. anchor point.

WEIGHT CAPACITY: 360 lbs.



*\*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.*

### Sample 24 Inch Adapter-Base System

**3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50**, 50 feet  
50 foot three-way self-retracting lanyard.

**Xtirpa™ SRL ADAPTER IN-2356\***  
Use to attach 205G-50 to davit arm mounting bracket.

**Xtirpa™ DAVIT ARM IN-2210**, 24 inch reach  
Also available in 30 inch–48 inch and 60 inch–96 inch.

**3M™ MATERIAL HANDLING WINCH 142G**, 65 feet

**Xtirpa™ WINCH ADAPTER IN-2157**  
Use to attach 142G to davit-arm mounting bracket.

Equipped with 5,000 lbs. rated anchor point.

**Xtirpa™ DAVIT MAST IN-2003**, 55 inch height  
Available in a variety of sizes based on length of davit arm.

**Xtirpa™ FLOOR ADAPTER BASE**  
A variety of options are available: See pages 97–99.



**MAST EXTENSIONS**  
Provide additional mast height by inserting a mast extension into the adapter base, then place mast in top of extension.



CONFINED-SPACE SYSTEMS

## Xtirpa™ 24 INCH ADAPTER-BASE SYSTEM

DAVIT ARM	Product #	Name	Description
	IN-2210	Xtirpa™ Davit Arm 24 inches	24 in. davit arm with secondary block adapter for fall protection and retrieval facilitates access to confined spaces. Used in conjunction with 24 in. mast IN-2003 and appropriate Xtirpa™ base/system or manhole guard IN-2108 or IN-2324. Equipped with 5,000 lbs. anchor point. Unit weight: 33 lbs.
MAST AND EXTENSIONS	Product #	Name	Description
	IN-2003	Xtirpa™ Davit Mast 55 inches	Mast for confined space fall protection and retrieval to be used in conjunction with the fall protection and retrieval 24 in. davit arm IN-2210 and any Xtirpa™ 24 in. davit-arm base or system. Height: 55 inches. Unit weight: 22 lbs.
	IN-2044	Xtirpa™ Mast Extension, 15 inches	Mast extension is made of painted steel and provides an additional 15 in. of height when used with any 24 in. davit-arm base. Unit weight: 20 lbs.
	IN-2109	Xtirpa™ Mast Extension, 18 inches	Mast extension is made of painted steel and provides an additional 18 in. of height when used with any 24 in. davit-arm base. Unit weight: 24 lbs.
	IN-2045	Xtirpa™ Mast Extension, 24 inches	Mast extension is made of painted steel and provides an additional 24 in. of height when used with any 24 in. davit-arm base. Unit weight: 26 lbs.
FLOOR ADAPTER BASES	Product #	Name	Description
	IN-2005	Xtirpa™ Floor Adapter Base Stainless Steel	Floor adapter base attaches to concrete or steel. Use with 24 in. universal mast IN-2003 and davit arm IN-2210. Bolts not included.
	IN-2106	Zinc Plated	
	IN-2311	316 Stainless Steel	

**Additional floor adapter bases on following pages**

*For self-retracting lanyards, winches and other accessories, see page 120.*

Xtirpa™ 24 INCH ADAPTER-BASE SYSTEM | CONTINUED

ADAPTER BASES	Product #	Name	Description
	IN-2006 IN-2114 IN-2325	Xtirpa™ Flush Floor-Adapter Base Stainless Steel Zinc Plated 316 Stainless Steel	Floor adapter attaches to concrete or steel. May help to reduce trip hazards when not in use. Use with mast IN-2003 and davit arm IN-2210. Bolts not included.
	IN-2007 IN-2326	Xtirpa™ Cast-in-Place Concrete Floor Base Stainless Steel 316 Stainless Steel	Floor adapter for use with fresh concrete floors in new construction. May help to reduce trip hazards when not in use. Use with mast IN-2003 and davit arm IN-2210. Bolts not included.
	IN-2013 IN-2107 IN-2327	Xtirpa™ Mural Wall Mount Adapter Base Stainless Steel Zinc Plated 316 Stainless Steel	Adapter attaches flush to concrete or steel vertical structures for minimal intrusion. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.
	IN-2124	Xtirpa™ 8 inch Clearance Mural Wall Adapter	Stainless steel adapter attaches to concrete or steel vertical structures, provides an 8 in. clearance from wall. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.
	IN-2067 IN-2312	Xtirpa™ 14 inch Clearance Mural Wall Adapter Stainless Steel 316 Stainless Steel	Stainless steel adapter attaches to concrete or steel vertical structures and provides 14 in. clearance from wall. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.
	IN-2097 IN-2328	Xtirpa™ Sleeve Adapter Stainless Steel 316 Stainless Steel	Stainless steel sleeve adapter provides flush mount with concrete floor. For use with universal mast IN-2003 and davit arm IN-2210. 4-1/5 in. diameter hole needed.
	IN-2021 IN-2129	Xtirpa™ Wall-Adapter Base Stainless Steel Zinc Plated	Wall adapter base attaches to walls that are max 3 in. thick. Universal mast IN-2003 is then installed in adapter base. Commonly used on boats/ferries.
	IN-2315	Xtirpa™ Wall-Adapter Base 2 in.–5 in., Zinc Plated	Zinc plated wall adapter 2 in.–5 in. width. Commonly used on shoring boxes.
	IN-2008 IN-2168 IN-2075 IN-2125 IN-2251	Xtirpa™ Adjustable Wall Adapter 6 in.–15.75 in. 12 in.–24 in. 12 in.–31.5 in. 24 in.–45 in. 12 in.–30 in.	Adjustable wall adapters range from 6 in.–15 in. up to 12 in.–48 in. Bolts included.
	IN-2131 IN-2132	Xtirpa™ Exterior-Corner Wall Mount Sleeve Stainless Steel Zinc Plated	Wall-mount adapter base provides the option for attaching a mast adapter to an exterior 90° corner wall. Bolts not included.
	IN-2133 IN-2134	Xtirpa™ Inside-Corner Wall Mount Sleeve Stainless Steel Zinc Plated	Wall-mount adapter base provides the option for attaching a mast adapter to an interior 90° corner wall. Bolts not included.
	IN-2105 IN-2137 IN-2329	Xtirpa™ Central Floor-Adapter Base Stainless Steel Zinc Plated 316 Stainless Steel	Center-mounted floor adapter attaches to concrete or steel. Use with universal mast IN-2003 and davit arm IN-2210. Ideal when 360° movement required. Bolts not included.
	IN-2087	Xtirpa™ Wall-Mounted Universal Ring Adapter	Universal ring adapter anchor point, use on ceiling or wall with pole hoist system. Use horizontally or vertically. Bolts not included.
	IN-2085	Xtirpa™ H-Beam Adapter	Adapter base attaches to H-Beams to provide an anchorage point for davit arm IN-2003. Designed for H-Beam width 12 in. x 26 in. Used on suspended floors over sections of beams. Use with universal mast IN-2003 and davit arm IN-2210. Comes with bolts.
	IN-2208	Xtirpa™ Sliding Beam Adapter	Sliding beam adapter fits beams 15 in. x 5-3/8 in. Tighten while in use, then move to new location along entire length of beam. Bolts located on one side for ease of transfer. Use with universal mast IN-2003 and davit arm IN-2210. Commonly used on dams.

**XTIRPA**

Xtirpa™ 24 INCH ADAPTER-BASE SYSTEM | CONTINUED

ADAPTER BASES	Product #	Name	Description
	IN-2171	Xtirpa™ Transformer Adapter	High-power transformer adapter provides clearance when lifting objects out of transformer. Use with universal mast IN-2003 and davit arm IN 2210.
	IN-2117	Xtirpa™ Concrete Top Wall Bracket, Stainless Steel	Stainless steel wall-mount adapter provides the option for attaching a mast adapter to top of concrete wall at 90°. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.
ADAPTER ACCESSORIES	Product #	Name	Description
	IN-2161	Xtirpa™ Warning Post	Use with permanent adapter bases when installed in high-traffic locations to provide a visual warning of base. May help prevent objects from falling in base and reduce trip hazards. 45 in. height x 4 in. diameter. Fits 3 in. diameter hole for IN-2003 universal mast.
	IN-2072	Xtirpa™ Adapter Cap	Adapter cap for use with permanent adapter bases when mast not installed may help to prevent objects from falling in adapter base. Fits 3 in. diameter hole for IN-2003 universal mast.
	IN-2073	Xtirpa™ Adapter Cap with Steel Wire	Adapter cap with steel wire for use with permanent adapter bases when mast not installed may help to prevent objects from falling in base. Wire keeps cap attached to base. Fits 3 in. diameter hole for IN-2003 universal mast.
	P2006-006	Xtirpa™ Adapter-Reinforcement Plate, Stainless Steel	Stainless steel reinforcement plate for adapter base IN-2006, for use when concrete is less than 8 in. thick, see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.
	P2105-001	Xtirpa™ Adapter-Reinforcement Plate, Stainless Steel	Stainless steel reinforcement plate for adapter base IN-2105, for use when concrete is less than 8 in. thick and a minimum of 6 in., see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.
	P2005-001	Xtirpa™ Adapter-Reinforcement Plate, Stainless Steel	Stainless steel reinforcement plate for adapter base IN-2005, for use when concrete is less than 8 in. thick and a minimum of 6 in., see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.
	P2087-004	Xtirpa™ Adapter-Reinforcement Plate, Stainless Steel	Stainless steel reinforcement plate for adapter base IN-2087, for use when concrete is less than 8 in. thick and a minimum of 6 in., see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.
	P2013-008	Xtirpa™ Adapter-Reinforcement Plate, Stainless Steel	Stainless steel reinforcement plate for adapter base IN-2013, for use when concrete is less than 8 in. thick, see specification sheet for all requirements. Purchase anchor rods IN-2174 or IN-2212.
	IN-2174	Xtirpa™ Adapter Plate 12 in. Rod Kit, Stainless Steel, 4 per kit	This kit comes with four 12 in. stainless steel threaded rods for sandwich-type installation of adapter bases.
	IN-2212	Xtirpa™ Adapter Plate 16 in. Rod Kit, Stainless Steel, 4 per kit	This kit comes with four 16 in. stainless steel threaded rods for sandwich-type installation of adapter bases.

Xtirpa™ LOW CLEARANCE MAST AND DAVIT



**Xtirpa™ CONFINED-SPACE INTEGRATED MAST AND DAVIT ARM**

**IN-2295**, 36 inch height x 18 inch reach

Low-clearance integrated mast and davit arm for use in any of the 24 inch adapter bases when a shorter clearance is needed. Unit weight: 16 lbs.

**WEIGHT CAPACITY: 360 LBS.**

For self-retracting lanyards, winches and other accessories, see page 120.

# VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ 30 INCH–48 INCH ADAPTER-BASE SYSTEM

The 30 inch–48 inch system is ideal for work areas that require regular setup and tear-down and where a base can be permanently affixed to an existing structure. This system consists of a davit arm, mast retrieval device and adapter base. Including all the benefits of the 24 inch system, this larger system is easily positioned in 30 inch, 36 inch and 48 inch reach. This greater versatility offers a solution where other systems are not viable. The davit arm is equipped with a 5,000 lbs. anchor point. Typical applications include anywhere greater reach is needed including, but not limited to: bridge decking, water and sewer facilities and entry into large basins.

WEIGHT CAPACITY: 360 lbs.

Sample 30 Inch–48 Inch Adapter-Base System

**3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50**, 50 feet

50 foot three-way self-retracting lanyard.

**Xtirpa™ DAVIT ARM IN-2237**, 30 inch–48 inch reach

Adjust to 30 inches, 36 inches or 48 inches.

**Xtirpa™ SRL ADAPTER IN-2356\***

Use to attach 205G-50 to davit-arm mounting bracket.

Equipped with 5,000 lbs. rated anchor point.

**Xtirpa™ REMOVABLE ADAPTER A2237-06**

For positioning winch.

**Xtirpa™ DAVIT MAST IN-2240**, 42 inch height

**Xtirpa™ FLOOR ADAPTER BASE**

A variety of options are available.



Use cylinder reducer **A2238-03** in adapter base to allow for use with 24 inch davit arms.



## Xtirpa™ 30 INCH–48 INCH ADAPTER-BASE SYSTEM

DAVIT ARM	Product #	Name	Description
	<b>IN-2237</b>	Xtirpa™ Davit Arm 30 in.–48 in.	30 in.–48 in. davit arm for fall protection and retrieval facilitates access to confined space. Use with masts IN-2240 or IN-2313. Pinholes located at 30 in., 36 in. and 48 in. Equipped with 5,000 lbs. anchor point. For winch handling support, order A2237-06 separately. Unit weight: 35 lbs.
	<b>A2237-06</b>	Xtirpa™ Removable Winch Adapter	Removable winch adapter for the 30 in.–48 in. davit arm (IN-2237).
MASTS	Product #	Name	Description
	<b>IN-2240</b>	Xtirpa™ Mast for 30 in.–48 in. Davit Arm 42 in. height	Mast for confined-space fall protection and retrieval to be used in conjunction with 30 in.–48 in. davit arm IN-2237. It fits 30 in.–48 in. Xtirpa™ adapter bases and counter-weight system. Height: 42 in. Unit weight: 25 lbs.
	<b>IN-2313</b>	Xtirpa™ Mast for 30 in.–48 in. Davit Arm 60 in. height	60 in. mast for confined space fall protection and retrieval to be used in conjunction with 30 in.–48 in. davit arm IN-2237. It fits 30 in.–48 in. Xtirpa™ adapter bases. Unit weight: 34 lbs.
ADAPTER BASES	Product #	Name	Description
	<b>IN-2238</b> <b>IN-2302</b>	Xtirpa™ Floor Adapter Base Stainless Steel Zinc Plated	Floor-adapter base attaches to concrete or steel structure. For use with mast IN-2240 or IN-2313 and davit arm IN-2237. Bolts not included.
	<b>IN-2253</b> <b>IN-2303</b>	Xtirpa™ Mural Wall Adapter Base Stainless Steel Zinc Plated	Wall adapter installed flush to concrete for minimal intrusion in work space. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. Bolts not included.
	<b>IN-2254</b> <b>IN-2304</b>	Xtirpa™ Central Floor Adapter Base Stainless Steel Zinc Plated	Center-mounted floor adapter attaches to concrete or steel structure. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. Ideal for 360° rotation. Bolts not included.
	<b>IN-2266</b>	Xtirpa™ Flush Floor Adapter Base, Stainless Steel	Stainless steel adapter attaches to concrete or steel. May help reduce trip hazards when not in use. Use with mast IN-2240 or IN-2313 and davit arm IN-2237. Bolts not included.
	<b>IN-2255</b>	Xtirpa™ Mast Sleeve Adapter, Stainless Steel	Stainless steel sleeve adapter provides flush mount with concrete floor. For use with mast IN-2240 or IN-2313 and davit arm IN-2237. 5-3/4 inch diameter hole needed.
	<b>IN-2272</b>	Xtirpa™ Adapter Cap 4 in. diameter	Use with permanent adapter bases when mast not installed. May help to prevent objects from falling in base. Use with mast IN-2240 or IN-2313. Fits 4 in. diameter hole.
	<b>IN-2273</b>	Xtirpa™ Adapter Cap with Steel Wire, 4 in. diameter	Wire keeps cap attached to base. Use with permanent adapter bases when mast not installed. May help to prevent objects from falling in base. Use with mast IN-2240 or IN-2313. Fits 4 in. diameter hole.
	<b>A2238-03</b>	Xtirpa™ Cylinder Reducer 4 in.–3 in.	For 30 in.–48 in. davit-arm adapter base to allow use of 24 in. davit-arm mast IN-2003 and 24 in. system with larger 30 in.–48 in. base.

For self-retracting lanyards, winches and other accessories, see page 120.

**XTIRPA**

\*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.

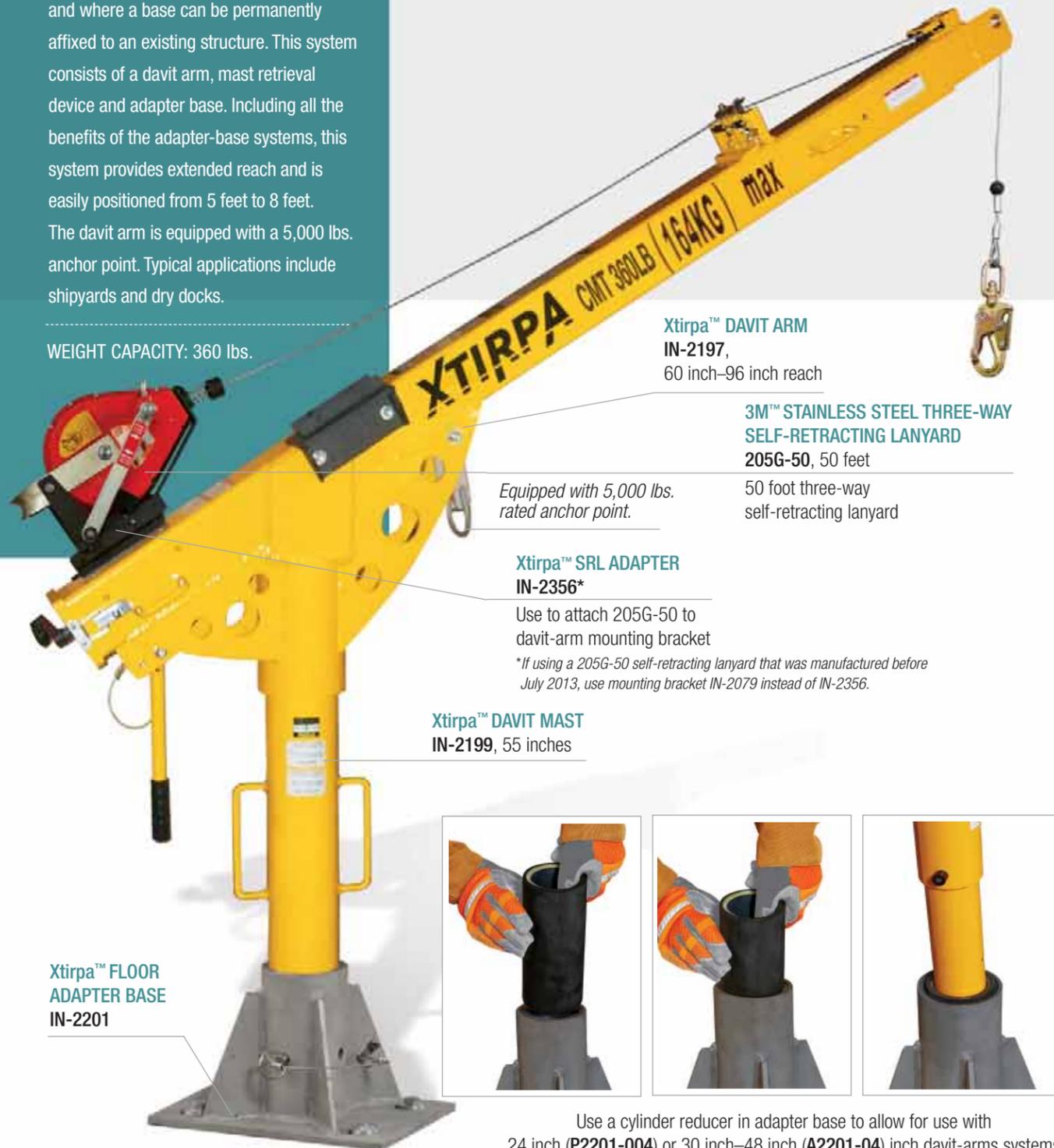
# VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ 60 INCH–96 INCH ADAPTER-BASE SYSTEM

The 60 inch–96 inch is ideal for work areas that require regular setup and tear-down and where a base can be permanently affixed to an existing structure. This system consists of a davit arm, mast retrieval device and adapter base. Including all the benefits of the adapter-base systems, this system provides extended reach and is easily positioned from 5 feet to 8 feet. The davit arm is equipped with a 5,000 lbs. anchor point. Typical applications include shipyards and dry docks.

WEIGHT CAPACITY: 360 lbs.

Sample 60 Inch-96 Inch Adapter-Base System



**Xtirpa™ DAVIT ARM  
IN-2197,**  
60 inch–96 inch reach

**3M™ STAINLESS STEEL THREE-WAY  
SELF-RETRACTING LANYARD  
205G-50,** 50 feet

Equipped with 5,000 lbs.  
rated anchor point.

50 foot three-way  
self-retracting lanyard

**Xtirpa™ SRL ADAPTER  
IN-2356\***

Use to attach 205G-50 to  
davit-arm mounting bracket

*\*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.*

**Xtirpa™ DAVIT MAST  
IN-2199,** 55 inches

**Xtirpa™ FLOOR  
ADAPTER BASE  
IN-2201**

Use a cylinder reducer in adapter base to allow for use with 24 inch (P2201-004) or 30 inch–48 inch (A2201-04) inch davit-arms systems



CONFINED-SPACE SYSTEMS

## Xtirpa™ 60 INCH–96 INCH ADAPTER-BASE SYSTEM

DAVIT ARM	Product #	Name	Description
	IN-2197	Xtirpa™ Davit Arm 60 in.–96 in.	60 in.–96 in. davit arm with secondary block adapter for fall protection and retrieval facilitates access to underground chambers and other confined spaces. Use with mast IN-2199 and center-mounted floor adapter IN-2201. Equipped with 5,000 lbs. anchor point. Unit weight: 125 lbs.
MAST	Product #	Name	Description
	IN-2199	Xtirpa™ Mast for 60 in.–96 in. Davit Arm	Mast for confined-space fall protection and retrieval to be used in conjunction with the fall protection and retrieval 60 in.–96 in. davit arm IN-2197. Use with center-mounted floor adapter IN-2201. Height: 55 in. Unit weight: 35 lbs.
ADAPTER BASE	Product #	Name	Description
	IN-2201	Xtirpa™ Center Mounted Floor Adapter	Center-mounted stainless steel floor adapter for concrete or steel. Use mast IN-2199 and davit arm IN-2197. Cylinder reducers allow use with Xtirpa™ masts and davit arms. Bolts not included.
	A2201-03	Xtirpa™ Cylinder Reducer with Cable, 5-1/2 in.–3 in.	For 96 in. davit-arm adapter base IN-2201 to allow use of 24 in. davit arm IN-2210 and mast IN-2003 or mast extensions. Adjusts diameter of adapter base from 5-1/2 in. to 3 in. Attached cable helps remove cylinder reducer from the adapter receptacle.
	A2201-04	Xtirpa™ Cylinder Reducer, 5-1/2 in.–4 in.	For 96 in. davit-arm adapter base IN-2201 to allow use of 30 in.–48 in. davit-arm mast IN-2240 or IN-2313 and arm IN-2237 with the larger 96 in. davit-arm adapter base. Adjusts diameter of adapter base from 5-1/2 in.–4 in.

For self-retracting lanyards, winches and other accessories, see page 120.

**XTIRPA**

# VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ MANHOLE GUARD SYSTEM

Manhole guard systems are used when an exposed entry point needs to be guarded. This portable system has an integrated mast that is used in conjunction with a davit arm to provide fall protection and entry and retrieval capabilities. The manhole guard system facilitates access to underground chambers or any other type of confined space where an entry point should be protected. Davit arm is equipped with a 5,000 lbs. anchor point.

WEIGHT CAPACITY: 420 lbs. with manhole guard system

Sample Manhole Guard System

**3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50**, 50 feet  
50 foot three-way self-retracting lanyard.

**Xtirpa™ DAVIT ARM IN-2210**, 24 inch reach

**Xtirpa™ SRL ADAPTER IN-2356\***

Use to attach 205G-50 to davit-arm mounting bracket.

Equipped with 5,000 lbs. rated anchor point.

**Xtirpa™ MANHOLE GUARD IN-2108**

Available in 42 inch and 52 inch sizes with adjustable feet.



**Xtirpa™ MULTIFUNCTIONAL BARRICADE IN-2101**

Extend your work area with an additional barricade.



**Xtirpa™ STABILIZER A2108-18**

For increased stability of system. Designed to be used with 24 inch davit arm IN-2210 and mast manhole guard.

*If working on metal grids or gravel, large rubber feet are available to order separately A2001-28 (see page 122).*

\*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.



## Xtirpa™ MANHOLE GUARD SYSTEM

DAVIT ARM	Product #	Name	Description
	IN-2210	Xtirpa™ Davit Arm 24 in.	24 in. davit arm with secondary block adapter for fall protection and retrieval facilitates access to confined spaces. Use with 24 in. mast IN-2003 and appropriate Xtirpa™ bases/systems or manhole guard IN-2108 or IN-2324. Equipped with 5,000 lbs. anchor point. Unit weight: 33 lbs.
MANHOLE GUARDS AND BARRICADES	Product #	Name	Description
	IN-2108	Xtirpa™ Manhole Guard 42 in. H x 38 in. W x 38 in. D	Portable manhole guard with integrated mast that is used in conjunction with a 24 in. davit arm for confined-space fall protection and retrieval. It is 42 in. height x 38 in. width x 38 in. depth. Comes with adjustable feet for simple leveling of system. Unit weight: 29 lbs.
	IN-2324	Xtirpa™ Manhole Guard 42 in. H x 52 in. W x 52 in. D	Large portable manhole guard with integrated mast that is used in conjunction with the 24 in. davit arm for confined space fall protection and retrieval. It is 42 in. height x 52 in. width x 52 in. depth. Comes with adjustable feet for simple leveling of system. Unit weight: 44 lbs.
	A2101-07	Xtirpa™ Multi-functional Barricade, 1-side	Single section multi-functional portable manhole guard allows worker to assemble additional sections as needed to create a safe working area. 42 in. height x 38 in. width x 38 in. deep. For use with portable manhole guard IN-2108 or IN-2324. Unit weight: 7 lbs.
	IN-2101	Xtirpa™ Multi-functional Barricade, 4-sides	four-sided multi-functional portable manhole guard allows worker to assemble additional sections to create a safe working area. Each removable section is 42 in. height x 38 in. width x 38 in. depth. For use with portable manhole guard IN-2108 or IN-2324. Unit weight: 28 lbs.
RINGS	Product #	Name	Description
	IN-2010	Xtirpa™ Manhole Retaining Ring	Retaining ring that must be used in conjunction with cone-shaped safety ring IN-2009 to secure to manhole. Expands 28 in.–30 in.
	IN-2009	Xtirpa™ Cone Shaped Safety Ring	30 in. cone-shaped sealing safety ring must be used in conjunction with retaining ring IN-2010. Connects to manhole guard IN-2108 or IN-2324 to help prevent liquids from entering the confined space.
STABILIZER	Product #	Name	Description
	A2108-18	Xtirpa™ Stabilizer	Stabilizer for IN-2108 or IN-2324 portable manhole guards. For use with self-retracting lanyards over 50 ft. for increased stability of system. May be used with other winching mechanisms: either material-handling winch or man-handling winch.
	A2108-20	Xtirpa™ Stabilizer with wheels	Stabilizer for IN-2108 or IN-2324 portable manhole guard with wheels. For use with self-retracting lanyards over 50 ft. for increased stability of system. Wheels allow for ease of movement without dismantling system.
PLATE PROTECTOR	Product #	Name	Description
	IN-2176	Xtirpa™ Barricade Plate Protector	Kick-plate protector for portable manhole guard to help prevent objects at foot level from entering confined space. 6 in. height x 37-1/2 in. length x 1/16 in. width (thickness).
ACCESSORIES	Product #	Name	Description
	IN-2296	Xtirpa™ Manhole Guard Cable Reel Support	Manhole guard cable reel support used by cable companies (telephone, electric) to pull conduit cable. It is fixed on manhole guards IN-2108 or IN-2324 and wire placed on reel.

For self-retracting lanyards, winches and other accessories, see page 120.

# VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ MANHOLE COLLAR SYSTEM

Manhole collar systems are designed for applications involving frequent setups over similarly-sized access openings. This lightweight and easy-to-assemble/disassemble system provides a portable adapter base and anchor point making it an ideal option for areas where a permanent anchor is not viable.

WEIGHT CAPACITY: 360 lbs.

Sample Manhole Collar System

Xtirpa™ SRL ADAPTER IN-2356\*

Use to attach 205G-50 to davit-arm mounting bracket.

3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50, 50 feet  
50 foot three-way self-retracting lanyard.

Equipped with 5,000 lbs. rated anchor point.

Xtirpa™ DAVIT MAST IN-2003, 55 inch height

Available in a variety of sizes based on length of davit arm.

Xtirpa™ MANHOLE COLLAR IN-2221, 22 inch–24 inch diameter  
A variety of sizes are available.

Xtirpa™ DAVIT ARM IN-2210, 24 inch reach

### Xtirpa™ MANHOLE COLLAR LADDER ADAPTER

A2217-05

Attaches to any manhole collar and secures ladder to collar for additional stability. Use where ladder is not built into structure. Cannot be used with safety rings.

### Xtirpa™ CONFINED-SPACE INTEGRATED MAST AND DAVIT ARM

IN-2295

Low clearance integrated mast and davit arm for use with manhole collar system or any 24 inch adapter-base when a shorter clearance is needed. Unit weight: 16 lbs.



CONFINED-SPACE SYSTEMS

## Xtirpa™ MANHOLE-COLLAR SYSTEM

DAVIT ARM	Product #	Name	Description
	IN-2210	Xtirpa™ Davit Arm, 24 in.	24 in. davit arm with secondary block adapter for fall protection and retrieval facilitates access to confined spaces. Use with 24 in. mast IN-2003 and appropriate Xtirpa™ bases/systems or manhole guards IN-2108 or IN-2324. Equipped with 5,000 lbs. anchor point. Unit weight: 33 lbs.
MAST	Product #	Name	Description
	IN-2003	Xtirpa™ Davit-Arm Mast, 55 in.	Mast for confined-space fall protection and retrieval to be used in conjunction with the fall protection and retrieval 24 in. davit arm IN-2210 and any Xtirpa™ 24 in. davit-arm base or system. Height: 55 in. Unit weight: 22 lbs.
	IN-2044	Xtirpa™ Mast Extension, 15 in.	Mast extension is made of painted steel and provides an additional 15 in. of height when used with any 24 in. davit-arm base. Unit weight: 20 lbs.
	IN-2109	Xtirpa™ Mast Extension, 18 in.	Mast extension is made of painted steel and provides an additional 18 in. of height when used with any 24 in. davit-arm base. Unit weight: 24 lbs.
	IN-2045	Xtirpa™ Mast Extension, 24 in.	Mast extension is made of painted steel and provides an additional 24 in. of height when used with any 24 in. davit-arm base. Unit weight: 26 lbs.

**Manhole collars on following page**

*For self-retracting lanyards, winches and other accessories, see page 120.*

\*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.



# VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ MANHOLE COLLAR SYSTEM | CONTINUED

COLLARS	Product #	Name	Description
		Xtirpa™ Fall/Arrest Retrieval Manhole Collar	
	IN-2287	Fits 16 in.–18 in. diameter	Fall arrest/retrieval manhole collars fit 16 in.–44 in. diameter. Provides portable adapter base for a confined-space system by fitting within a manhole opening. Use with 24 in. mast IN-2003 and davit arm IN-2210.
	IN-2219	Fits 18 in.–20 in. diameter	
	IN-2220	Fits 20 in.–22 in. diameter	
	IN-2221	Fits 22 in.–24 in. diameter	
	IN-2217	Fits 24 in.–26 in. diameter	
	IN-2222	Fits 26 in.–28 in. diameter	
	IN-2218	Fits 28 in.–30 in. diameter	
	IN-2167	Fits 30 in.–32 in. diameter	
	IN-2223	Fits 32 in.–34 in. diameter	
	IN-2224	Fits 34 in.–36 in. diameter	
	IN-2180	Fits 42-1/2 in.–44 in. diameter	
	IN-2269	Xtirpa™ Adjustable Manhole Collar Fits 32 in.–42 in. diameter	Adjustable fall arrest/retrieval manhole collar adjusts from 32 in.–42 in. diameter. Provides a portable base for a confined-space system by fitting within a manhole opening. Use with 24 in. mast IN-2003 and davit arm IN-2210.



## Xtirpa™ MANHOLE COLLAR ACCESSORIES

COMFORT SEAT	Product #	Name	Description
	A2217-10	Xtirpa™ Manhole Collar Comfort Seat	This seat can be attached to any manhole collar for added comfort when entering or working on a confined space entry point. Cannot be used with IN-2009 due to tilted edges. Seat dimensions: 10 in. length x 12 in. height.
HAND RAIL	Product #	Name	Description
	IN-2282	Xtirpa™ Manhole Adaptable Handrail	This adaptable handrail is for use with mast IN-2003 and provides easier entrance/exit from confined space. Unit weight 5-1/2 lbs.
LADDER ADAPTER	Product #	Name	Description
	A2217-05	Xtirpa™ Manhole Collar Ladder Adapter	Ladder adapter attaches to any Xtirpa™ manhole collar and provides a mechanism to secure ladder to manhole collar for added stability when a ladder is needed but not built into structure. Cannot be used with IN-2009. Comes with necessary hardware.
SPECIALIZED	Product #	Name	Description
	IN-2244	Xtirpa™ Positioning Seat	Positioning seat allows for comfortable entrance/exit of confined space by providing worker a padded seat to sit on while ascending/descending. Seat attaches to man-rated winch. Commonly used in grain elevators.

For self-retracting lanyards, winches and other accessories, see page 120.



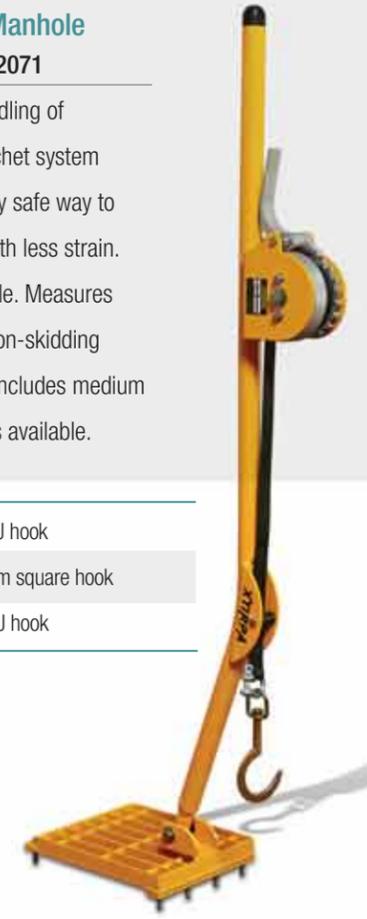
## Xtirpa™ Ratchet Manhole Cover Lifter | IN-2071

Designed for easy handling of manhole covers, a ratchet system offers an ergonomically safe way to lift the toughest lids with less strain. Lightweight and durable. Measures 53 inches in height. Non-skidding tempered steel pegs, includes medium hook. Three hook sizes available.

P2071-021P Small J hook

P2071-022P Medium square hook

P2071-023P Large J hook



# VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ FREESTANDING H-BASE SYSTEM

A free-standing system is ideal when you need to move and access various confined-space entry points. The portable lower base allows for adjustment to accommodate width and length of most standard confined spaces, offering a solution for the entry, rescue and positioning of personnel. The system pivots for an easier and safer rescue. The davit arm is equipped with a 5,000 lbs. anchor point.

WEIGHT CAPACITY: 360 lbs.

### Sample Freestanding H-Base System

**3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50**, 50 feet  
50 foot three-way self-retracting lanyard.

**Xtirpa™ SRL ADAPTER IN-2356\***  
Use to attach 205G-50 to davit-arm mounting bracket.

**Xtirpa™ DAVIT ARM IN-2210**, 24 inch reach

Equipped with 5,000 lbs. rated anchor point.

**Xtirpa™ DAVIT MAST IN-2003**, 55 inch height  
Available in a variety of sizes based on length of davit arm.

*\*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.*

**Xtirpa™ DAVIT MAST EXTENSION IN-2044**, 15 inch height  
Also available in 18 inches and 24 inches.

**Xtirpa™ H-BASE IN-2118**, 50 inches  
Three-piece system.



CONFINED-SPACE SYSTEMS

## Xtirpa™ FREESTANDING H-BASE SYSTEM

DAVIT ARM	Product #	Name	Description
	IN-2210	Xtirpa™ Davit Arm, 24 in.	24 in. davit arm with secondary block for fall protection and retrieval facilitates access to confined spaces. Use with 24 in. mast IN-2003 and appropriate Xtirpa™ bases/systems or manhole guards IN-2108 or IN-2324. Equipped with 5,000 lbs. anchor point. Unit weight: 33 lbs.
MAST AND EXTENSIONS	Product #	Name	Description
	IN-2003	Xtirpa™ Davit-Arm Mast, 55 in.	Mast for confined-space fall protection and retrieval to be used in conjunction with the fall protection and retrieval 24 in. davit arm IN-2210 and any Xtirpa™ 24 in. davit-arm base or system. Height: 55 in. Unit weight: 22 lbs.
	IN-2044	Xtirpa™ Mast Extension, 15 in.	Mast extension is made of painted steel and provides an additional 15 in. of height when used with any 24 in. davit-arm base. Unit weight: 20 lbs.
	IN-2109	Xtirpa™ Mast Extension, 18 in.	Mast extension is made of painted steel and provides an additional 18 in. of height when used with any 24 in. davit-arm base. Unit weight: 24 lbs.
	IN-2045	Xtirpa™ Mast Extension, 24 in.	Mast extension is made of painted steel and provides an additional 24 in. of height when used with any 24 in. davit-arm base. Unit weight: 26 lbs.
H-BASE	Product #	Name	Description
	IN-2118	Xtirpa™ H-Base, 50 in.	50 in. H-base for confined space fall protection and retrieval. Use with 24 in. davit arm IN-2210 and mast IN-2003. The lower base is portable and adjusts to fit most standard confined spaces. Three-piece system.

*For self-retracting lanyards, winches and other accessories, see page 120.*

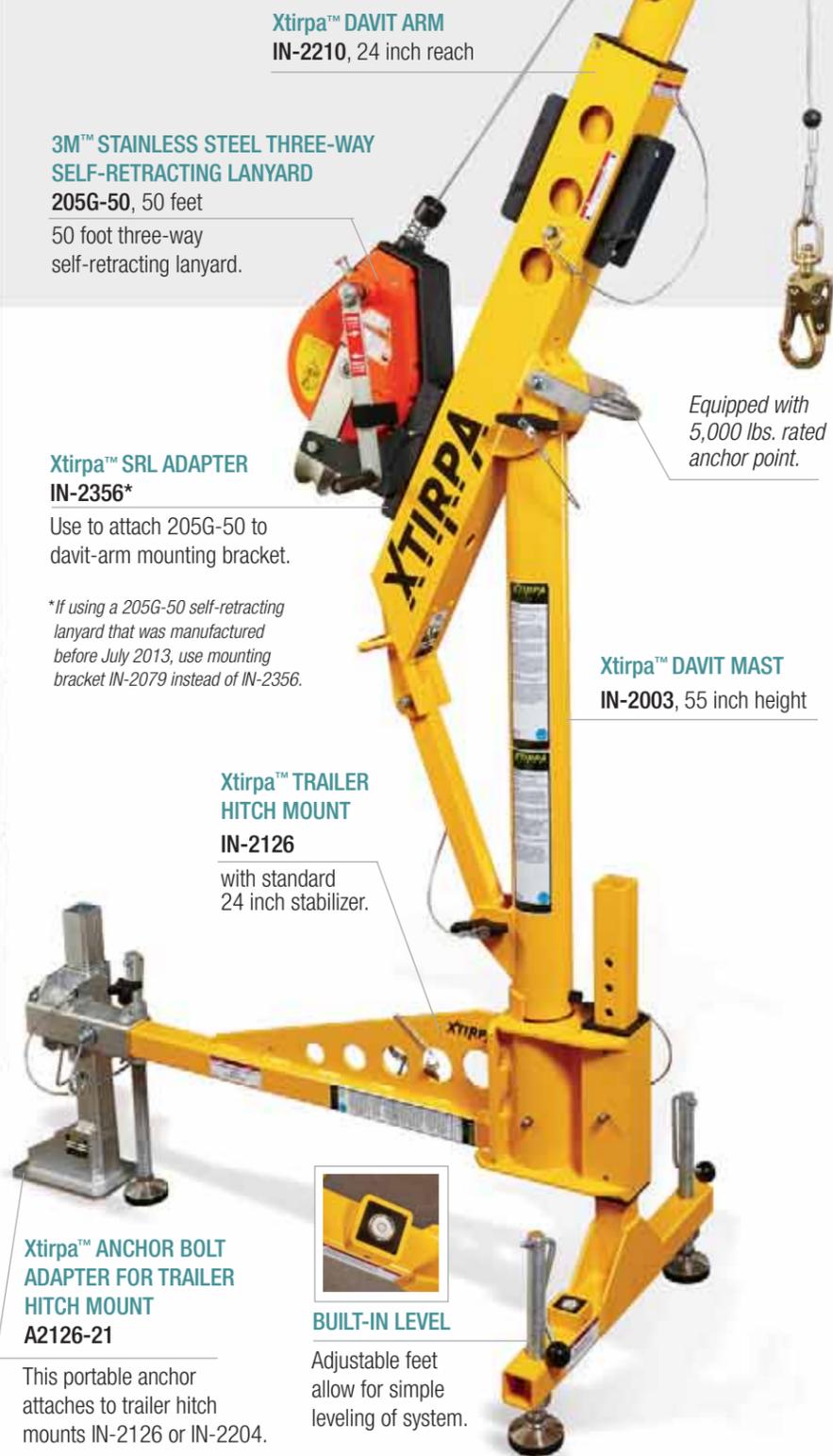
# VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ TRAILER HITCH MOUNT SYSTEM

The trailer hitch mount system is commonly used with rescue vehicles for confined-space rescue. This section will help you build a portable confined-space system with a trailer hitch mount system that connects to 2 inch square vehicle receiver hitches. This popular system offers you adjustable screw pads for simple leveling of the system. The davit arm is equipped with a 5,000 lbs. anchor point. Numerous options are available for you to customize your confined-space system with a trailer hitch mount.

WEIGHT CAPACITY: 360 lbs.

### Sample Trailer Hitch Mount System



**Xtirpa™ DAVIT ARM**  
IN-2210, 24 inch reach

**3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD**  
205G-50, 50 feet  
50 foot three-way self-retracting lanyard.

Equipped with 5,000 lbs. rated anchor point.

**Xtirpa™ SRL ADAPTER**  
IN-2356\*

Use to attach 205G-50 to davit-arm mounting bracket.

*\*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.*

**Xtirpa™ DAVIT MAST**  
IN-2003, 55 inch height

**Xtirpa™ TRAILER HITCH MOUNT**  
IN-2126  
with standard 24 inch stabilizer.

**Xtirpa™ ANCHOR BOLT ADAPTER FOR TRAILER HITCH MOUNT**  
A2126-21

This portable anchor attaches to trailer hitch mounts IN-2126 or IN-2204.



**BUILT-IN LEVEL**

Adjustable feet allow for simple leveling of system.



## Xtirpa™ TRAILER HITCH MOUNT SYSTEM

DAVIT ARM	Product #	Name	Description
	IN-2210	Xtirpa™ Davit Arm, 24 in.	24 in. davit arm with secondary block for fall protection and retrieval facilitates access to confined spaces. Used in conjunction with 24 in. mast IN-2003 and appropriate Xtirpa™ base/system or manhole guard IN-2108 or IN-2324. Equipped with 5,000 lbs. anchor point. Unit weight: 33 lbs.
TRAILER MOUNT HITCH	Product #	Name	Description
	IN-2126	Xtirpa™ Trailer Hitch Mount with Standard 24 in. Stabilizer	Trailer hitch mount with 24 in. stabilizer is part of a confined-space system that connects to 2 in. square vehicle receiver hitches. Use with mast IN-2003 and davit arm IN-2210. Comes with adjustable screw pads for simple leveling of system.
	IN-2204	Xtirpa™ Trailer Hitch Mount with 60 in. Stabilizer	Trailer hitch mount with 60 in. stabilizer connects to 2 in. square vehicle receiver hitches. Used with mast IN-2003 and davit arm IN-2210. Recommended for use with rescue stretcher. Comes with adjustable screw pads for leveling of system.
MAST AND EXTENSIONS	Product #	Name	Description
	IN-2003	Xtirpa™ Davit Mast, 55 in.	Mast for confined-space fall protection and retrieval to be used in conjunction with the fall protection and retrieval 24 in. davit arm IN-2210 and any Xtirpa™ 24 in. davit-arm base or system. Height: 55 in. Unit weight: 22 lbs.
	IN-2044	Xtirpa™ Mast Extension, 15 in.	Mast extension is made of painted steel and provides an additional 15 in. of height when used with any 24 in. davit-arm base. Unit weight: 20 lbs.
	IN-2109	Xtirpa™ Mast Extension, 18 in.	Mast extension is made of painted steel and provides an additional 18 in. of height when used with any 24 in. davit-arm base. Unit weight: 24 lbs.
	IN-2045	Xtirpa™ Mast Extension, 24 in.	Mast extension is made of painted steel and provides an additional 24 in. of height when used with any 24 in. davit-arm base. Unit weight: 26 lbs.
ACCESSORIES	Product #	Name	Description
	A2126-07	Xtirpa™ Universal Joint Assembly for Trailer Hitch Mount	The universal joint assembly attaches to trailer hitch mount IN-2126 or IN-2204 allowing for a 22-1/2° lateral movement when attached to hitch of vehicle. Usually used in conjunction with 6 ft. trailer hitch mount extension A2126-09.
	A2126-09	Xtirpa™ Trailer Hitch Mount Extension, 6 ft.	This mount extension attaches to trailer hitch mount IN-2126 or IN-2204 and provides an additional 6 ft. of length. Usually used in conjunction with universal joint assembly A2126-07.
	A2126-10	Xtirpa™ Trailer Hitch Mount 90° Extension	This mount extension attaches to trailer hitch mount IN-2126 or IN-2204 and provides a 90° extension for trailer hitch mount system. Allows vehicle to be parallel with traffic and access confined space on the side of the road.
	A2126-14	Xtirpa™ C-clamp Adapter for Trailer Hitch Mount, 16 in.	16 in. C-clamp adapter for trailer hitch mount. Used on I-Beam and cement slabs that can withstand 5,000 lbs as an anchor point.
	A2126-33	Xtirpa™ C-clamp Adapter for Trailer Hitch Mount	Maximum 23-1/2 in., minimum 8-1/2 in. capacity C-clamp adapter for trailer hitch mount. Use on I-Beam and cement slabs that can withstand 5,000 lbs. as an anchor point.
	A2126-21	Xtirpa™ Anchor Bolt Adapter for Trailer Hitch Mount	Portable anchor. Attach to trailer hitch mounts IN-2126 or IN-2204.

For self-retracting lanyards, winches and other accessories, see page 120.

# VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ COUNTERWEIGHT SYSTEM

A counterweight system is ideal when you need to move and access various confined space entry points in the same area and want to use the 30 inch–48 inch davit arm for increased reach. Consisting of a central base unit with a number of options for anchoring, positioning, leg adjustment and extension assemblies, this is a system designed for accessibility. The system can be used with a weight rack for counterbalance or a wheel pad assembly with an attendant vehicle. The davit arm is equipped with a 5,000 lbs. anchor point.

WEIGHT CAPACITY: 360 lbs.



Sample Counterweight System

### Xtirpa™ DAVIT ARM

IN-2237, 30 in.–48 in. reach

Removable winch adapter A2237-06 available, order separately.

Equipped with 5,000 lbs. rated anchor point.

### Xtirpa™ DAVIT MAST

IN-2240, 42 inch height

### Xtirpa™ T-BASE MOUNT

IN-2305

Xtirpa™ 8 FOOT EXTENSION  
A2305-23

## Xtirpa™ COUNTERWEIGHT SYSTEM

DAVIT ARM	Product #	Name	Description
	IN-2237	Xtirpa™ Davit Arm 30 in.–48 in.	30 in.–48 in. davit arm for fall protection and retrieval facilitates access to confined space. Use with masts IN-2240 or IN-2313. Pinholes located at 30 in., 36 in. and 48 in. Equipped with 5,000 lbs. anchor point. For winch handling support, order A2237-06 separately. Unit weight: 35 lbs.
	A2237-06	Xtirpa™ Removable Winch Adapter	Removable winch adapter for the 30 in.–48 in. davit arm (IN-2237).
MASTS	Product #	Name	Description
	IN-2240	Xtirpa™ Mast for 30 in.–48 in. Davit Arm 42 in. height	Mast for confined-space fall protection and retrieval to be used in conjunction with 30 in.–48 in. davit arm IN-2237. It fits 30 in.–48 in. Xtirpa™ adapter bases and counterweight system. Height: 42 in. Unit weight: 25 lbs.
	IN-2313	Xtirpa™ Mast for 30 in.–48 in. Davit Arm 60 in. height	60 in. mast for confined-space fall protection and retrieval to be used in conjunction with 30 in.–48 in. davit arm IN-2237. It fits 30 in.–48 in. Xtirpa™ adapter bases. Unit weight: 34 lbs.
COMPONENTS - REQUIRED	Product #	Name	Description
	IN-2305	Xtirpa™ T-Base Mount	Portable T-base mount for confined space fall protection and retrieval. Attaches to counterweight base A2305-27 via extension A2305-23. Use with mast IN-2240 and davit arm IN-2237. Purchase weights separately. Equipped with 5,000 lbs. anchor point.
	A2305-27	Xtirpa™ Counterweight Base	Portable counterweight confined-space system base attaches to T-base mount IN-2305 via extension A2305-23. Serves as certified anchor point. Use with mast IN-2240 and 30 in.–48 in. davit arm IN-2237. Weight plates to be purchased separately.
	P2305-016n	Xtirpa™ Counterweight System Weight Plates, 50 lbs.	50 lbs. weight plate for use on counterweight confined-space system. Attach to counterweight base A2305-27. Forty plates required.
	A2305-40	Xtirpa™ Counterweight Base Extension Tube	8 ft. extension tube for counterweight base. Comes in two sections and with handles for ease in transporting.
ACCESSORIES — OPTIONAL	Product #	Name	Description
	A2305-20	Xtirpa™ T-Base Mount Reducer, 2-1/2 in.–2 in.	This T-base reducer is used with 6 ft. extension A2305-16. Allows extension to fit into 2 in. vehicle hitch mount.
	A2305-16	Xtirpa™ T-Base Mount Extension, 6 ft.	This 6 ft. extension connects to T-base IN-2305 using adapter A2305-25. Permits T-base to connect to vehicle hitch. Measures 2-1/2 in. in diameter. Use reducer A2305-20 to fit 2 in. vehicle hitch mount.
	A2305-25	Xtirpa™ Counterweight System Adapter for 6 ft. Extension	Adapter for 6 ft. extension A2305-16.

For self-retracting lanyards, winches and other accessories, see page 120.

Xtirpa™ WEIGHT PLATES  
P2305-016n

Xtirpa™ COUNTERWEIGHT BASE  
A2305-27

**XTIRPA**

# VERTICAL-ENTRY SOLUTIONS

## 3M™ TRIPOD SYSTEM

Simple setup procedure makes the process quick and promotes correct use. Legs automatically lock in the open position for added safety. Aluminum leg and head design reduces weight and improves portability. Designed for lifting, lowering and positioning personnel. Carrying bags allow for great portability. Provides a 5,000 lbs. anchor point.

WEIGHT CAPACITY: 360 lbs.

3M™ TRIPOD PULLEY  
99-0217

3M™ CONFINED-SPACE TRIPOD  
99-M10, 7 foot



3M™ MATERIAL HANDLING WINCH  
142G, 65 foot

3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD  
205G-50, 50 feet  
50 foot three-way self-retracting lanyard.

3M™ TRIPOD MOUNTING BRACKET  
M10B-1

To be used with 205G-50.



CONFINED-SPACE SYSTEMS

### 3M™ TRIPOD SYSTEM

TRIPOD	Product #	Name	Description
	99-M10	3M™ Tripod	This 7 ft. adjustable aluminum tripod with pulley carabiner and chain for the legs is one of three components of the 3M™ Tripod system used for confined-space rescue. Must order with 205G-50 and M10B-1 for a complete system.
RETRIEVAL DEVICES	Product #	Name	Description
	205G-50	50 ft. three-way Device	This 50 ft. three-way self-retracting lanyard is one of three components of the 3M™ Tripod system used for confined-space rescue. Lifeline is stainless steel cable.
	142G	Material Handling Winch	The 142G material winch is capable of raising and lowering loads of 550 lbs. and has 65 feet of galvanized steel cable. The 142G material handling winch comes complete with hardware pre-attached for mounting onto the 99-M10 tripod.
TRIPOD ACCESSORIES	Product #	Name	Description
	99-0217	Pulley	Replacement pulley for tripod 99-M10.
	M10B-1	Tripod bracket	Tripod mounting bracket for 205G-50 Series three-way self-retracting lanyard. Must order M10B-1 with 99-M10 tripod and 205G-50 Series three-way self-retracting lanyard for a complete system.
	1000210-07	Carabiner	Required for connecting additional device.
	4500-TripodA	Storage Bag	Carrying and storage bag for tripod.

For other accessories, see page 120.

# HORIZONTAL- AND VERTICAL-ENTRY SOLUTIONS

## Xtirpa™ POLE HOIST SYSTEM

This two-piece portable system is one of the most versatile systems on the market for confined space, entry/retrieval and rescue. When attached to an anchor point, it **provides retrieval and fall protection** when limited overhead clearance is available. It can also be configured to provide retrieval from horizontal entries. Designed for lifting, lowering and positioning of personnel. Load rating is based on the anchor point.

WEIGHT CAPACITY: 360 lbs.

Sample Pole Hoist System

**3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50**, 50 feet  
50 foot three-way self-retracting lanyard.

**Xtirpa™ POLE HOIST IN-2337**, 48 inches–72 inches  
Also available in 57 inches–102 inches.

**Xtirpa™ SRL ADAPTER IN-2356\***  
Use to attach 205G-50 to davit-arm mounting bracket.

*\*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.*

**Xtirpa™ T-BAR IN-2127**  
Available in a variety of sizes.



**IN-2242**  
This certified anchor point for the pole hoist system can be used on round or square flange.

### POLE HOIST SYSTEM

LIFTING POLES	Product #	Name	Description
	<b>IN-2337</b>	Xtirpa™ Pole Hoist, 48 in.–72 in.	Pole hoist system with swivel-head for vertical and horizontal retrieval and fall arrest. Extends with two fixed angles. Use with certified anchor point. Purchase T-Bar separately.
	<b>IN-2338</b>	Xtirpa™ Pole Hoist, 57 in.–102 in.	
ADJUSTABLE T-BAR	Product #	Name	Description
	<b>IN-2127</b>	Xtirpa™ Adjustable T-Bar for Pole Hoist, Short, Up to 48 in.	Adjustable T-bar attaches to adjustable swivel-head pole hoist IN-2337 or IN-2338 for base stability of pole hoist system. Extends to specified lengths.
	<b>IN-2256</b>	Xtirpa™ Adjustable T-Bar for Pole Hoist, Long, 46-4/5 in.–74-4/5 in.	
	<b>IN-2274</b>	Xtirpa™ Adjustable T-Bar for Pole Hoist, 12 in.–14 in.	
ADAPTERS	Product #	Name	Description
	<b>IN-2242</b>	Xtirpa™ Lateral Entry Angle Adapter	Anchor point for vertical and horizontal entry with pole hoist system. Can be used on round or square flange that can withstand 5,000 lbs as an anchor point. Comes with snap hook. Use existing studs to attach.
	<b>IN-2087</b>	Xtirpa™ Wall Mounted Universal Ring Adapter	Universal ring adapter anchor point, use on ceiling or wall with pole hoist system. Use horizontally or vertically. Bolts not included.
	<b>IN-2241</b>	Xtirpa™ Lateral Entry Jib Adapter	This jib adapter is positioned outside of confined-space entry point allowing for lateral entry. Typically used with tanks when walls are too thin for anchoring. Can be certified anchor point when anchored at base. Height adjusts from 88-9/10 in.–109-1/5 in.

*For self-retracting lanyards, winches and other accessories, see page 120.*

CONFINED-SPACE SYSTEMS





**3M™ STAINLESS STEEL THREE-WAY SELF-RETRACTING LANYARD 205G-50**, 50 feet  
Use with IN-2356\*.

**Xtirpa™ 3M™ or IKAR™ ADAPTER PLATE IN-2356\***

Use to attach 205G-50 to davit-arm mounting bracket.



**Xtirpa™ 3M™ or ALKO™ WINCH ADAPTER IN-2157**

Use to attach 142G to davit-arm mounting bracket.

**3M™ MATERIAL HANDLING WINCH 142G**, 65 foot

## BRACKETS AND ADAPTERS FOR SELF-RETRACTING LANYARDS AND WINCHES

Product #	Name	Description
 <b>IN-2271</b>	Xtirpa™ Fall Arrest and Rescue Link Adapter	This adapter for fall arrest and rescue fits onto davit arm and is used with mechanical rope system instead of a self-retracting lanyard to form a mechanical advantage rope system. Use with certified wire rope link (5BG416G4165-16).
 <b>5BG416G4165-16</b>	Xtirpa™ Certified Wire Rope Link	This wire rope is used with IN-2271 fall arrest and rescue link adapter.
 <b>IN-2290</b>	Xtirpa™ Horizontal Rescue System	Confined-space horizontal rescue system. Hinge mount, used with walker-type tank doors. Not to be used for fall arrest.
 <b>IN-2314</b>	Xtirpa™ Mural Wall Angular Adapter for Fall Arrest System	Wall mounted winch adapter plate for use with IN-2087 anchor and confined-space pulley and carabiner.

\*If using a 205G-50 self-retracting lanyard that was manufactured before July 2013, use mounting bracket IN-2079 instead of IN-2356.

## BRACKETS AND ADAPTERS | CONTINUED

Product #	Name	Description
 <b>IN-2152</b>	Xtirpa™ <b>Protecta™</b> SRL Mounting Adapter	This adapter attaches to Xtirpa™ mounting bracket A2002-31 for use with <b>Protecta™</b> self-retracting lanyard AD515CG.
 <b>IN-2191</b>	Xtirpa™ <b>North™</b> SRL Bracket and <b>Miller™</b> Man Handler Adapter	This adapter attaches to the Xtirpa™ mounting bracket A2002-31 for use with <b>North™</b> self-retracting lanyard bracket FP6610/15 and <b>Miller™</b> Man Handler.
 <b>IN-2215</b>	Xtirpa™ <b>North™</b> SRL Bracket Adapter	This adapter attaches to the Xtirpa™ mounting bracket A2002-31 for use with <b>North™</b> self-retracting lanyard bracket FP6610/33.
 <b>IN-2279</b>	Xtirpa™ <b>North™</b> SRL Bracket Adapter	This adapter attaches to the Xtirpa™ mounting bracket A2002-31 for use with <b>North™</b> self-retracting lanyard FP3-733GR.
 <b>IN-2079</b>	Xtirpa™ <b>3M™</b> or <b>Ikar™</b> SRL Adapter	This adapter attaches to Xtirpa™ mounting bracket A2002-31 for use with the <b>3M™</b> and <b>Ikar™</b> self-retracting lanyard 205G-50 that were manufactured before July 2013.
 <b>IN-2178</b>	Xtirpa™ <b>3M™</b> or <b>Ikar™</b> SRL Adapter	This adapter attaches to Xtirpa™ mounting bracket A2002-31 for use with <b>3M™</b> and <b>Ikar™</b> self-retracting lanyard 205G-75.
 <b>IN-2231</b>	Xtirpa™ <b>3M™</b> or <b>Ikar™</b> SRL Adapter	This adapter attaches to Xtirpa™ mounting bracket A2002-31 for use with <b>3M™</b> and <b>Ikar™</b> self-retracting lanyard 205G-100.
 <b>IN-2316</b>	Xtirpa™ <b>3M™</b> or <b>Ikar™</b> SRL Adapter	This adapter attaches to Xtirpa™ mounting bracket A2002-31 for use with <b>3M™</b> and <b>Ikar™</b> self-retracting lanyard 205G-100 (version 2012).
 <b>IN-2356</b>	Xtirpa™ <b>3M™</b> or <b>Ikar™</b> SRL Adapter	This adapter attaches to Xtirpa™ mounting bracket A2002-31 for use with the <b>3M™</b> and <b>Ikar™</b> self-retracting lanyard 205G-50 that were manufactured in or after July 2013.
 <b>IN-2151</b>	Xtirpa™ <b>MSA™</b> Winch Adapter	This adapter attaches to Xtirpa™ mounting bracket A2002-31 for use with <b>MSA™</b> 50 ft. winch 10011744.
 <b>IN-2157</b>	Xtirpa™ <b>3M™</b> or <b>Alko™</b> Material-Handling Winch Adapter	This adapter attaches to Xtirpa™ mounting bracket A2002-31 for use with <b>3M™</b> and <b>Alko™</b> material-handling winch 651.
 <b>IN-2211</b>	Xtirpa™ <b>Strong Arm™</b> or Mounting Bracket Adapter	This adapter attaches to Xtirpa™ mounting bracket A2002-31 for use with <b>Strong Arm™</b> winch.
 <b>IN-2153</b>	Xtirpa™ <b>Miller™</b> SRL Adapter	This adapter attaches to the Xtirpa™ mounting bracket A2002-31 for use with <b>Miller™</b> self-retracting lanyard MR50g, MR50ss and MR40k.
 <b>IN-2177</b>	Xtirpa™ <b>Miller™</b> SRL Adapter	This adapter attaches to the Xtirpa™ mounting bracket A2002-31 for use with <b>Miller™</b> self-retracting lanyard MR100 and MR130.
 <b>IN-2225</b>	Xtirpa™ <b>Miller™</b> SRL Adapter	This adapter attaches to the Xtirpa™ mounting bracket A2002-31 for use with <b>Miller™</b> self-retracting lanyard M52/25 ft.
 <b>IN-2226</b>	Xtirpa™ <b>Miller™</b> SRL Adapter	This adapter attaches to the Xtirpa™ mounting bracket A2002-31 for use with <b>Miller™</b> self-retracting lanyard bracket LB287.
 <b>IN-2319</b>	Xtirpa™ <b>Guardian™</b> SRL Adapter	This adapter attaches to the Xtirpa™ mounting bracket A2002-31 for use with <b>Guardian™</b> 50 ft. self-retracting lanyard 10974.
 <b>A2002-31</b>	Xtirpa™ Mounting Bracket for Davit Arms	Replacement mounting bracket for Xtirpa™ davit arms includes all necessary hardware to attach to davit arm. Comes standard with all Xtirpa™ davit-arm systems.

# CONFINED-SPACE ACCESSORIES

## CARRYING BAGS

All Carrying Bags provide storage and easy transport from work site to work site. Each bag is tear-resistant and waterproof.

Product #	Name	Description
 P2108-025	Xtirpa™ Confined-Space Manhole Guard Carrying Bag, 42 in.	Carrying bag for 42 in. manhole guard IN-2108.
 P2101-008	Xtirpa™ Multi-Functional Barricade Carrying Bag, 42 in.	Carrying bag for multi-functional portable manhole guard IN-2101 or A2101-07.
 P2002-046	Xtirpa™ Davit-Arm Carrying Bag	Carrying bag for davit arm IN-2210.
 P2003-011	Xtirpa™ Mast Carrying Bag	Carrying bag for mast IN-2003.
 P2118-017	Xtirpa™ H-Base Body Section Carrying Bag	Carrying bag for body section of H-base system.
 P2118-018	Xtirpa™ H-Base Foot-Base Section Carrying Bag	Carrying bag for one of the two foot-base sections of H-base system.
 P2120-014	Xtirpa™ 48 in.–72 in., Pole Hoist Carrying Bag	Carrying bag for pole hoist IN-2337.
 P2121-003	Xtirpa™ 57 in.–102 in., Pole Hoist Carrying Bag	Carrying bag for pole hoist IN-2338.

## FEET FOR BARRICADE AND MANHOLE GUARDS

Product #	Name	Description
 A2001-09	Xtirpa™ Barricade Feet, Adjustable	These adjustable feet come standard with Xtirpa™ portable manhole guards, but can be purchased separately if replacement feet are needed due to wear. Adjustable feet are ideal for uneven terrain.
 A2001-36	Xtirpa™ Barricade Main Post Rubber Feet, Fixed	These fixed feet come standard on the Xtirpa™ portable manhole guard's mast feet, but can also be purchased separately if replacement feet are needed due to wear.
 A2001-18	Xtirpa™ Manhole Guard Spiked Feet	These spiked manhole guard feet do not come standard with Xtirpa™ portable manhole guards, but can be ordered separately. For use on slippery surfaces.
 A2001-28	Xtirpa™ Manhole Guard Rubber Feet, Large	Kit of three large rubber feet for IN-2108 or IN-2324, does not come standard with Xtirpa™ portable manhole guard, but can be ordered separately. Use on metal grids, gravel or soft ground conditions. For load-bearing legs.

## GENERAL ACCESSORIES

Product #	Name	Description
 4670	Bosun chair	Designed for users required to be suspended while working. To use, attach D-ring on chair to snap hook of 205G-50.
 M30-SBA	Spreader Bar Assembly	Spreader bar assembly is for confined-space rescue/retrieval. To use, attach snap hooks on assembly to shoulder D-rings of harness and assembly D-ring to the retrieval system cable. Not for fall arrest. Dimensions: 30 in. length x 12 in. width.

For self-retracting lanyards, winches and other accessories, see page 120.

## DAVIT SYSTEM REPLACEMENT PARTS

Product #	Name	Description
 A2210-03	Xtirpa™ Replacement 2 in. Pulley for Davit Arm	2 in. pulley comes standard with all Xtirpa™ davit arms, but can also be purchased separately if a replacement part is needed.
 A2210-12	Xtirpa™ Replacement 4 in. Pulley for Davit Arms	4 in. pulley comes standard with all Xtirpa™ davit arms, but can also be purchased separately if a replacement part is needed.
 A2210-11	Xtirpa™ Dual-Locking Pull-Ring for Secondary Block Pulley	Dual press replacement locking pull-ring for Xtirpa™ davit-arm pulleys (A2210-03). Dimensions: 3/8 in. diameter x 1-3/4 in. grip range/working length.
 A2210-13	Xtirpa™ Cable Restraint Pin for Davit Arms	Replacement restraint pin for use on Xtirpa™ davit arms (next to pulley).
 P2006-004	Xtirpa™ PVC Sleeve Adapter	This part comes standard with all 24 in. adapter bases. Intended as a replacement part if the existing PVC sleeve is removed. Fits all 24 in. adapter bases.
 A2001-32	Xtirpa™ Rubber Latch Assembly	Replacement rubber latch assembly for 42 in. Xtirpa™ barricades IN-2108 and IN-2324. Hardware included.
 A2001-10	Xtirpa™ Cylinder Kit	Cylinder kit for adjustable leg for 42 in. Xtirpa™ barricades IN-2108 and IN-2324, receptacle that A2001-09 fits into. Includes all necessary hardware.

## DAVIT SYSTEM REPLACEMENT PINS

DAVIT-ARM PINS	Product #	Name	Description
 A2002-08	A2002-08	Xtirpa™ T-Handle Replacement Pin for Davit Arm, 3 in.	3 in. replacement T-handle for Xtirpa™ davit arm. To be used at base of davit arm to lock davit arm into mast and manhole guards. Dimensions: 1/2 in. diameter x 3 in. grip range/working length.
 A2002-09	A2002-09	Xtirpa™ T-Handle Replacement Pin for Davit Arm, 4-1/2 in.	4-1/2 in. replacement T-handle for Xtirpa™ davit arm. To be used in middle of davit arm to connect to manhole guard or mast. Dimensions: 1/2 in. diameter x 4-1/2 in. grip range/working length.
 A2002-10	A2002-10	Xtirpa™ Confined-Space Pull Locking Pin, 4 in.	4 in. replacement pull-ring lock for Xtirpa™ davit-arm extension. Dimensions: 1/2 in. diameter x 4 in. grip range/working length.
ADAPTER PINS	Product #	Name	Description
 A2005-07	A2005-07	Xtirpa™ Confined-Space Assembly Kit with Pull Ring	Fits all inch bases or 24 in. adapter bases.
 A2079-03	A2079-03	Xtirpa™ Winch Adapter Locking Pin with Steel Wire	Any Xtirpa™ SRL or winch adapter to secure winch or SRL to adapter. Comes with steel wire to attach locking pin to adapter. Dimensions: 5/16 in. diameter x 4-1/8 in. grip range/working length.

## POLE HOIST REPLACEMENT PARTS — INCLUDES ALL NECESSARY HARDWARE

REPLACEMENT PARTS	Product #	Name	REPLACEMENT PINS	Product #	Name
 A2337-05	A2337-05	Xtirpa™ Replacement Adapter-Plate Assembly	 A2120-07	A2120-07	Xtirpa™ Pole Hoist Replacement Two-Pin Set
 A2337-06	A2337-06	Xtirpa™ Cable-Tensioning Mechanism	 A2127-06	A2127-06	Xtirpa™ Pole Hoist Replacement T-Bar Locking Pin
 A2127-08	A2127-08	Xtirpa™ Rubber Replacement Pads for Pole Hoist System T-Bar	 A2127-07	A2127-07	Xtirpa™ Pole Hoist Replacement T-Bar Height Adjustment Pin
PULLEYS	Product #	Name			
 A2337-07	A2337-07	Xtirpa™ Swivel-Head Replacement Pulley			
 P2337-003	P2337-003	Xtirpa™ Cable-Retention Pulley			

Xtirpa™ replacement stickers available on request. Contact your 3M Representative directly.



For self-retracting lanyards, winches and other accessories, see page 120.

# Escape and rescue made quick and simple.

When things go wrong 500 feet in the air, you want a quick, simple way to get yourself or another person down safely. 3M offers real solutions for escape and rescue, built around descent technology that is innovative and designed for ease of use. This can assist with escape and rescue for workers on towers, cranes, platforms, scaffolding, aerial lifts, rigs and in other at-height environments.



## THE NEED FOR RESCUE PLANS

Descent and rescue devices are used to retrieve an injured worker and lower him to the ground. Employers must have a rescue plan that provides the prompt rescue of employees in the event of a fall or ensures that employees are able to rescue themselves.

### Rescue Plan Required by OSHA in the U.S.

**OSHA 1926.502 (d)(20):** The employer shall provide for prompt rescue of employees in the event of a fall or shall assure that employees are able to rescue themselves.

**OSHA 1910.66 Appendix C Section III.(g):** "Rescue considerations." As required by the standard (Section I Paragraph (e)(8)), when personal fall arrest systems are used, the employer must assure that employees can be promptly rescued or can rescue themselves should a fall occur. The availability of rescue personnel, ladders or other rescue equipment should be evaluated. In some situations, equipment which allows employees to rescue themselves after the fall has been arrested may be desirable, such as devices which have descent capability.

### Rescue Plan Required by OHS (Occupational Health and Safety)

Rescue plan regulations — written rescue procedures must be in place and executed before any use of a fall arrest system. A rescue plan is required for any person at height.\*

Legislation standards require that where a worker is exposed to the hazard of falling more than 3 meters, the worker will wear a serviceable safety belt or harness and lifeline so that the worker cannot fall freely for a vertical distance of more than 1.5 meters; and before any use of a fall arrest system, the worker's employer shall develop written procedures for rescuing the worker after his or her fall has been arrested.\*\*

\* Statement above relates to Ministry of Labour, Province of Ontario.

\*\* Statement will vary by Provincial Legislation. Please contact your local governing body for exact wording on rescue plan definition in your own jurisdiction.

## CONSIDERATIONS WHEN CHOOSING AN ESCAPE AND RESCUE DEVICE

### 1 What specific capabilities do you need?

- **ESCAPE** — individual and/or multi-person
- **ASSISTED RESCUE** — including two-person
- **SELF-RESCUE** after a fall
- **RESCUE TRAINING**

### 2 What is your environment?

- General Industrial/Manufacturing
- Tower Climbing
- Oil & Gas
- Mining
- Construction
- Utilities/Bucket Trucks

### 3 Are there hazards that could jeopardize the safety of the worker during an escape or rescue descent?

- Consider a device that allows the user to stop and go and change speed at any time during the descent to help avoid hazards.

### 4 Descent speed/standards

- Up to 2 m/sec. (6-3/5 ft./sec.) (ANSI, CSA and EN certified)
- Up to 3 m/sec. (9-4/5 ft./sec.)

### 5 What height are you working at?

- This determines rope length requirements.

### 6 Portability

- Consider equipment that allows for the option to carry device with worker or to anchor device to anchorage connector.

# In a world of complex rescue solutions, simplified rescue is essential.

## PERSONAL RESCUE DEVICE

The Latchways Personal Rescue Device™ (PRD)™ is worn with a 3M™ Elavation™ full body harness, and activation is achieved by simply pulling the release cord, allowing for self-rescue. The lightweight, unobtrusive rescue device is contained in a small “backpack” that integrates rescue capabilities into your personal fall arrest equipment. In the event of a fall, the Elavation harness suspends the user and allows the Latchways PRD to gently lower him or her to the ground, unassisted, in a controlled descent. If the user is unable to self-rescue, the device may be activated by another person. The PRD features 65 feet of rope, which is released at a controlled rate through an integral braking mechanism.



## LATCHWAYS PRD™ WITH 3M™ ELAVATION™ HARNESS FEATURES

Self-activated  
with intuitive mechanism,  
**NO SPECIALIST**  
training required

reduces  
**rescue**  
time

Elavation™ Premium  
**Harness**

**Minimal**  
pre-use checks

Bring victim  
down,  
not rescuer up

Less costly  
and less complex than traditional  
**RESCUE PLANS**

**Simplifies** rescue:  
release with a simple pull

**Immediately**  
available  
to worker

**rescue plan**  
for improved safety

Meets **ANSI** standards



**7510Q**  
Elavation™  
Premium  
Fall Protection  
Harness



FRONT  
VIEW

ESCAPE AND RESCUE

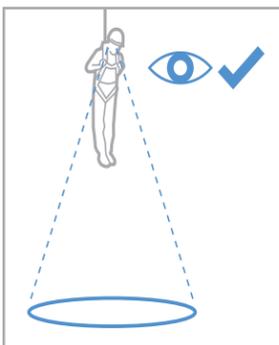
## TWO OPTIONS FOR RESCUE:

### 1 SELF-RESCUE

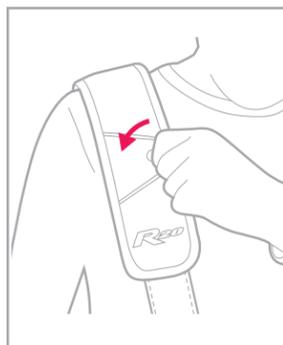
Bring the victim down, not the rescuer up.



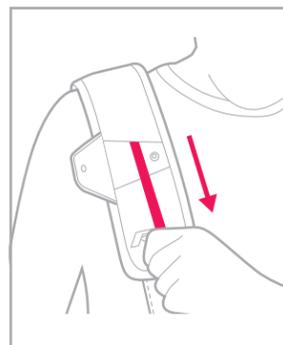
### HOW IT WORKS (FOR SELF-RESCUE)



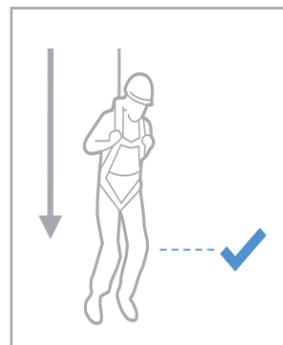
**1** Check the ground below to ensure descent path is clear and a safe landing is possible.



**2** Open the flap on the right shoulder strap to access the release cord.



**3** Pull sharply on the release cord.



**4** Prepare for landing by bending knees slightly.

### 2 ASSISTED RESCUE

If the user is not able to self-rescue, the device may be activated by another person using a Latchways Rescue Pole.



The Latchways Rescue Pole activating the PRD's built-in secondary descent release mechanism. Collapsed length: 2 feet 8 inches, and 11 feet 2 inches at full extension.



### STANDARDS

The Latchways PRD™ with 3M™ Elavation™ harness conforms to the following standards:

**The Elavation™ harness conforms to:**

- ANSI Z359.1.2007

**The Latchways PRD™ conforms to:**

- ANSI Z359.4.2007

**The “backpack” and harness conform to:**

- Waterproof and dustproof IP56 (Ingress Protection)
- 4°F (-20°C) to +140°F (60°C) operating temperature

### PRODUCT DETAILS

**COMPONENT PARTS** | Descent rope lifeline made from UHMWPE rope with aramid overbraid

**DESCENT HEIGHT** | 65 feet (20 m)

**COMPLETE WEIGHT** | 7510Q (S-M) 10.6 lbs. (4.8 kg)  
7510Q (L-XL) 10.7 lbs. (4.85 kg)  
7510Q (XXL) 10.9 lbs. (4.94 kg)

**SYSTEM CAPACITY** | 310 lbs. (140 kg)

**DESCENT SPEED** | Up to 6-3/5 ft./sec. (2 m/sec.)

**TRAINING** | Minimal user training required — no annual user refresher training required

**PRE-USE CHECKS** | The Latchways PRD™ has been designed to be user-friendly, with minimal pre-use checks required. The descent device, harness and backpack should be checked for any signs of use in a descent, damage, corrosion, chemical attack or altering.

**MAINTENANCE** | Periodic examination is limited to a series of visual inspections carried out by a competent person (full instructions provided).

### Product Codes and Descriptions

PRODUCT NUMBER	PRODUCT NAME	PRODUCT DESCRIPTION
<b>PRD-7510Q (S-M)</b>	Latchways PRD™ with 3M™ Elavation™ Harness 7510Q (S-M)	Elavation Harness, size small-medium, has Quick Connect Buckle Chest and Leg Connection and Back D-ring.
<b>PRD-7510Q (L-XL)</b>	Latchways PRD™ with 3M™ Elavation™ Harness 7510Q (L-XL)	Elavation Harness, size L-XL, has Quick Connect Buckle Chest and Leg Connection and Back D-ring.
<b>PRD-7510Q (XXL)</b>	Latchways PRD™ with 3M™ Elavation™ Harness 7510Q (XXL)	Elavation Harness, size XXL, has Quick Connect Buckle Chest and Leg Connection and Back D-ring.
<b>PRD-RescPole</b>	Latchways Rescue Pole for Latchways Personal Rescue Device™ (PRD)™	Used with Latchways PRD™ to rescue an unconscious worker needing rescue. Collapsed length: 2 feet 8 inches, and 11 feet 2 inches at full extension.

# Taking escape and rescue to new heights

## 3M™ and DEUS™ Controlled Descent Device Features

### LIGHTWEIGHT & PORTABLE

Lightweight and pocket-sized device is easy to carry with you.

- 3700 device is just 2-4/5 lbs. (1.27 kg) without rope and carabiner
- 3300 device is just 2 lbs. (0.9 kg) without rope and carabiner

Lightweight rope for controlled descent does not require user to double up the rope with device, making overall weight of system easier to transport.

- 100 feet of 8 mm rope is 3-3/10 lbs. (1.49 kg)
- 100 feet of rope for 100 feet of controlled descent distance (vs. 100 feet of rope for 50 feet of controlled-descent distance, like other rescue systems in the market)



3300 DEVICE

### IDEAL FOR USE IN HARSH ENVIRONMENTS

Features a rock-solid case and steel, brass and titanium components. Sealed internal brakes are protected from corrosion.

### COST-SAVING VERSATILITY

The rope is not integrated, which means the same device can be used with different rope lengths based on working height or training requirements. The descent device can also be used for emergency and training purposes simply by switching out training rope. User can replace rope in seconds.

## Use only with 3M and DEUS rope for work and training.

3M™ and DEUS™ ropes are engineered and crafted for safety, performance and to work in synergy with 3M™ and DEUS™ equipment under a variety of specific, often extreme conditions. A range of different polymer fibers and braiding techniques are used to make 3M™ and DEUS™ ropes with specific properties to ensure your 3M™ and DEUS™ 3000 Series devices work properly and to the appropriate standards.



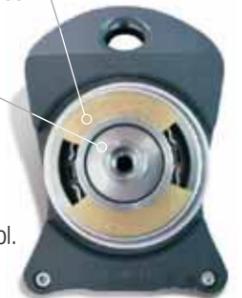
7-1/2 mm and 8 mm rope has polyester sheath and Technora core, which is fire resistant to 925°F.

12 mm belay rope and 7-1/2 mm blue RTU ropes have a polyester sheath and nylon core.

### PEACE OF MIND

Four independent brakes provide reinforced safety.

- 1 Drum brake with oversize control dial for adjusting descent speed or to "stop" or "go" hands-free.
- 2 Centrifugal brake automatically guards against free fall.
- 3 Figure-8 — hands-free and self-adjusting — for redundant safety.
- 4 Manual rope tailing brake for precise control.



### WHEN SECONDS COUNT

Descent speed limited to a safe 2 m/sec or 3 m/sec., (6-3/5 ft./sec. or 9-4/5 ft./sec.) depending on model.

### YOUR ALL-IN-ONE ESCAPE AND RESCUE SYSTEM

Use the 3700 or 3300 device for a variety of rescue applications at heights up to 590 feet\* including individual and multi-person escape, self-rescue and assisted rescue, including two-person rescue.

\*590 feet applies to 3700 device.

### STAY IN CONTROL

The control dial is all you need for a completely controlled descent, even with heavy gloves. Stop, or go and change speed anytime during descent with a twist of the dial.

### REDUCED HEAT BUILD-UP

"Away-from-rope" braking reduces heat and mechanical damage. Combined with fire-resistant rope (to 925°F), the controlled descent system provides superior performance.

### LIMITED LIFETIME WARRANTY

The same device can be used year after year even if used for an escape or rescue. Always return device after use in an emergency evacuation situation or every three years for inspection by a DEUS™ authorized repair center.

# CONTROLLED DESCENT DEVICES

Each of the 3M™ and DEUS™ 3000 Series devices provides simple, hands-free operation, quadruple-redundant brakes to guard against free fall, “carry-it-with-you-always” portability and rugged construction. When lives are on the line, trust 3M and DEUS for personal escape and rescue.

What really sets the 3M and DEUS 3000 Series apart from the rest is the amazing versatility. Devices in the 3M and DEUS 3000 Series are useful tools in multiple situations. Each 3000 Series device can provide a safe, simple basis for individual and multi-person escape, assisted rescue, self-rescue, work positioning, travel restraint and rescue training.

Compared to other controlled-descent solutions, the 3M and DEUS 3000 Series is the top of the class with its advanced technology, unmatched ease-of-use, superior safety and practical portability. And the amazing versatility puts the 3M and DEUS 3000 Series in a class all its own.

Convenient kit options available for emergency evacuation and/or rescue.



## 3700 CONTROLLED-DESCENT DEVICE

3M Product No.: 3700

### TECHNICAL

Approved for one-person or two-person use\*

- Operation: Hands-free or manual
- Descent Rate: **2 m/sec.** (6-3/5 ft./sec.) at 310 lbs. (140.61 kg)
- Min. Weight: 130 lbs. (59 kg) per ANSI  
88 lbs. (40 kg) per CSA and EN
- Max. Weight\*: 310 lbs. (140 kg) per ANSI  
275 lbs. (125 kg) per CSA and EN
- Max. Descent Height: One person 590 ft. (180 m)
- Rope: Use 3M™ and DEUS™ 8 mm orange kernmantle rope

### CONSTRUCTION

Aluminum, stainless steel, titanium and brass

### WEIGHT & DIMENSIONS

- Weight without rope and carabiner: 2-4/5 lbs. (1.27 kg)
- Dimensions: 5-3/10 in. height x 3-4/5 in. width x 2-1/5 in. depth (13 cm x 10 cm x 6 cm)
- Certifications: ANSI Z359.4-2007, EN341:2012/Type 1, Class B, CSA Z259.2.3:2012/Type 1, Class B
- Warranty: Limited Lifetime Warranty (Renew every three years)



## 3300 CONTROLLED DESCENT DEVICE

3M Product No.: 3300

### TECHNICAL

Approved for one person

- Operation: Hands-free or manual
- Descent Rate: **3 m/sec.** (9-4/5 ft./sec.) at 310 lbs. (140.61 kg)
- Max. Weight: 310 lbs. (140.61 kg)
- Max. Descent Height: 350 ft. (106 m)
- Rope: Use 3M™ and DEUS™ 7-1/2 mm green kernmantle rope

### CONSTRUCTION

Aluminum, stainless steel, titanium and brass

### WEIGHT & DIMENSIONS

- Weight without rope and carabiner: 2 lbs. (0.9 kg)
- Dimensions: 5-3/10 in. height x 3-1/2 in. width x 2-1/10 in. depth (13 cm x 9 cm x 5 cm)
- Certifications: NFPA 1983: 2012ED “Escape” and “Fire Escape”
- Warranty: Limited Lifetime Warranty (Renew every three years)

Each device is an all-in-one, all-purpose work-and-rescue package.

ESCAPE



### ESCAPE — INDIVIDUAL

Carry it pre-rigged so it's ready when you need it — just anchor and go, under manual control or fully hands-free in “stop” or “go” mode.



### ESCAPE — RAPID SEQUENTIAL EVACUATIONS

3M™ and DEUS™ 3000 Series devices can be used to safely evacuate people from high places, one after another. No need for re-rigging between descents because 3M™ and DEUS™ 3000 Series devices operate in both directions.



RESCUE



### ASSISTED RESCUE

3M™ and DEUS™ 3000 Series devices can be rigged for victim rescue, giving complete control — hands-free or manually — to the rescuer, ensuring the victim is lowered to safety quickly and easily.



### TWO-PERSON ASSISTED RESCUE

With the addition of an extra carabiner, each 3M™ and DEUS™ 3000 Series device can be rigged to safely handle a two-person load under manual control.



### SELF-RESCUE AFTER A FALL

The problem with fall protection equipment is that it only stops the fall. Getting down is another matter... and a 3M™ and DEUS™ 3000 Series device can help. Rather than waiting to be rescued (and risking suspension trauma), use a 3M™ and DEUS™ 3000 Series device to rescue yourself.

WORK +

### HANDS-FREE WORK POSITIONING

Sometimes there's work to be done off the ground. Your 3M™ and DEUS™ 3000 Series device is all you need — descend to position, turn the control knob to the “stop” position, ensure tension on the rope, and you can hold your position hands-free while you do your work.

### TRAVEL RESTRAINT

While rigged for “escape” or “rescue,” the 3M™ and DEUS™ 3000 Series devices can also provide quick, simple, hands-free travel restraint.



Training required before use. Please contact your 3M Representative.

## Complete kits for every kind of task

3M™ and DEUS™ systems provide a range of complete kits for escape and rescue in a variety of professional markets. Kits are built around the 3M™ and DEUS™ line of unique and highly engineered controlled-descent devices. Every system features a compact, lightweight design, easy hands-free operation and redundant braking to protect against free fall. Combined with an array of innovative rescue tools and accessories, these kits address many rescue needs.



## ESCAPE KITS

To provide workers with a safe, simple way down when things go wrong at height, look to the 3M™ and DEUS™ escape kits. Each kit provides all the basics, so escape during an evacuation emergency is just “two clips and go.”

### KIT CONTENTS:

Each escape kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 3700 Descent Device
- 8 mm Orange Kernmantle Escape & Rescue Rope (available in a variety of lengths)
- 4 foot Rope-Over-Wire Anchorage Connector
- Three Carabiners

### DEUS 3700 | ESCAPE KITS

Product #	Rope Length
IE37-50	Kit comes with 50 feet of 8 mm orange kernmantle rope
IE37-100	Kit comes with 100 feet of 8 mm orange kernmantle rope
IE37-200	Kit comes with 200 feet of 8 mm orange kernmantle rope
IE37-300	Kit comes with 300 feet of 8 mm orange kernmantle rope
IE37-350	Kit comes with 350 feet of 8 mm orange kernmantle rope



## ESCAPE AND RESCUE KITS

An extensive kit with the tools to support individual and multi-person escape, assisted rescue and more, for workers at height using the 3700 descent device.

### KIT CONTENTS:

Each Escape and Rescue Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 3700 Descent Device
- 4:1 Rescue Transfer Unit (RTU)\*
- 8 mm Orange Kernmantle Escape & Rescue Rope (available in a variety of lengths)
- Two 4-foot Rope-Over-Wire Anchorage Connectors
- Three Carabiners
- One Edge Protector

### \*RTU for lifting and hauling

The Rescue Transfer Unit (RTU) is a simple and compact lifting and hauling solution. Packed in its own bag, the RTU includes a set of pulleys with 4:1 mechanical advantage, pre-rigged with 3M™ and DEUS™ 7-1/2 mm blue kernmantle rope, Dyneema® sling and autolock carabiners.



### RESCUE TRANSFER UNIT

A rescue transfer unit is a specialized piece of equipment used to raise a person who has fallen and is suspended from a piece of fall-protection equipment in order to transfer the load from the fall-protection device to a rigged and anchored controlled descent device. After the load is transferred to the controlled descent device, the unloaded fall-protection device is released so that controlled descent can proceed.



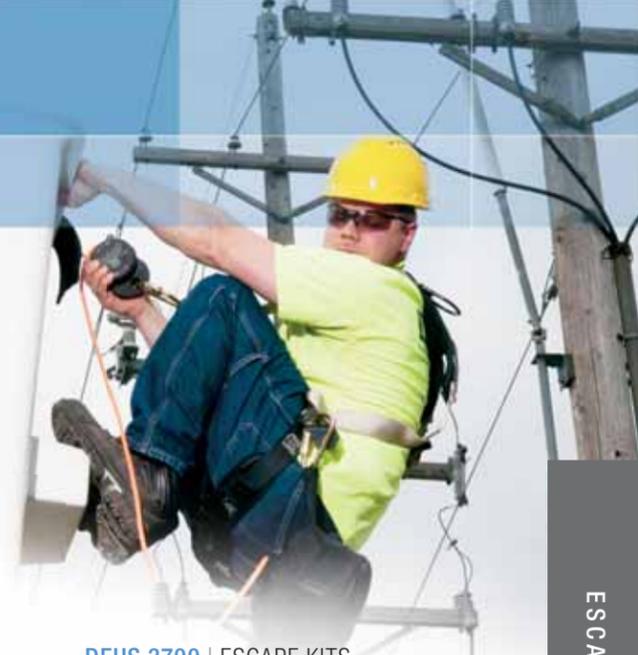
## BUCKET TRUCK ESCAPE KITS

Allows bucket truck workers to lower themselves in emergency situations.

### KIT CONTENTS:

Each Bucket Truck Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 3700 Descent Device
- 8 mm Orange Kernmantle Escape & Rescue Rope (available in a variety of lengths)
- Three Carabiners
- Two Edge Protectors



### DEUS 3700 | ESCAPE KITS

Product #	Rope Length
BT-100	Kit comes with 100 feet of 8 mm orange kernmantle rope
BT-150	Kit comes with 150 feet of 8 mm orange kernmantle rope
BT-200	Kit comes with 200 feet of 8 mm orange kernmantle rope
BT-300	Kit comes with 300 feet of 8 mm orange kernmantle rope

## OIL & GAS ESCAPE AND RESCUE KITS

Escape and assisted rescue kit for oil and gas applications, equipped with triple-lock carabiners and edge protectors to meet safety requirements in the oil and gas industry.

### KIT CONTENTS:

Each Oil & Gas Escape and Rescue Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 3700 Descent Device
- 4:1 Rescue Transfer Unit (RTU)\*
- 8 mm Orange Kernmantle Escape & Rescue Rope (available in a variety of lengths)
- Two 4-foot Rope-Over-Wire Anchorage Connectors
- Three Triple-lock Carabiners
- One Deluxe Edge Protector

### \*RTU for lifting and hauling

The Rescue Transfer Unit (RTU) is a simple and compact lifting and hauling solution. Packed in its own bag, the RTU includes a set of pulleys with 4:1 mechanical advantage, pre-rigged with 3M™ and DEUS™ 7-1/2 mm blue kernmantle rope, Dyneema® sling and autolock carabiners.



### DEUS 3700 | OIL & GAS ESCAPE AND RESCUE KITS

Product #	Rope Length
IR370G-50	Kit comes with 50 feet of 8 mm orange kernmantle rope
IR370G-100	Kit comes with 100 feet of 8 mm orange kernmantle rope
IR370G-200	Kit comes with 200 feet of 8 mm orange kernmantle rope
IR370G-300	Kit comes with 300 feet of 8 mm orange kernmantle rope
IR370G-350	Kit comes with 350 feet of 8 mm orange kernmantle rope

### RESCUE TRANSFER UNIT

A rescue transfer unit is a specialized piece of equipment used to raise a person who has fallen and is suspended from a piece of fall-protection equipment in order to transfer the load from the fall-protection device to a rigged and anchored controlled descent device. After the load is transferred to the controlled descent device, the unloaded fall-protection device is released so that controlled descent can proceed.



### Angled-Descent Kit for Rig Escape

For an easy-to-use, reliable zip system, use the 3M™ and DEUS™ Angled-Descent Kit with a 3M™ and DEUS™ Escape and/or Rescue Kit. Ideal for oil and gas applications, the Angled-Descent Kit features a special gate that's easy to open with one hand and allows for quick connection to a guy line for quick angled descent in emergency situations. The Angled-Descent Kit comes with a strap and carabiner to connect a guy line to the worker's harness. Must be used with a 3M™ and DEUS™ Escape and/or Rescue Kit. See page 17 for additional information.



## TOWER ESCAPE KITS

The Tower Escape Kit offers a complete escape kit for those who work on wind, telecommunications or utility towers.

### KIT CONTENTS:

Each Tower Escape Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 3300 Descent Device
- 7.5 mm Green Kernmantle Escape & Rescue Rope (available in 300 and 350 foot lengths)
- Three Carabiners
- 4 foot Rope-Over-Wire Anchorage Connector

### DEUS 3300 | TOWER ESCAPE KITS

Product #	Rope Length
GE33-300	Kit comes with 300 feet of 7.5 mm green kernmantle rope
GE33-350	Kit comes with 350 feet of 7.5 mm green kernmantle rope



## TOWER ESCAPE AND RESCUE KITS

Handle any type of tower emergency with this lightweight, compact kit. For professionals on wind, electrical or utility towers or other high structures, this kit is ideal for individual and multi-person escape and assisted rescue.

### KIT CONTENTS:

Each Tower Escape and Rescue Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 3300 Descent Device
- 4:1 Rescue Transfer Unit (RTU)\*
- 7.5 mm green kernmantle Escape & Rescue Rope (available in 300 foot and 350 foot lengths)
- Three Carabiners
- Two 4-foot Rope-Over-Wire Anchorage Connectors
- One Edge Protector

### \*RTU for lifting and hauling

The Rescue Transfer Unit (RTU) is a simple and compact lifting and hauling solution. Packed in its own bag, the RTU includes a set of pulleys with 4:1 mechanical advantage, pre-rigged with 3M™ and DEUS™ 7-1/2 mm blue kernmantle rope, Dyneema® sling and autolock carabiners.



### RESCUE TRANSFER UNIT

A rescue transfer unit is a specialized piece of equipment used to raise a person who has fallen and is suspended from a piece of fall-protection equipment in order to transfer the load from the fall-protection device to a rigged and anchored controlled-descent device. After the load is transferred to the controlled descent device, the unloaded fall-protection device is released so that controlled-descent can proceed.

### DEUS 3300 | ESCAPE AND RESCUE KITS

Product #	Rope Length
GR33-300	Kit comes with 300 feet of 7.5 mm green kernmantle rope
GR33-350	Kit comes with 350 feet of 7.5 mm green kernmantle rope

# 3M™ and DEUS™ 7300

## Backup Belay for Rescue Training and Fixed Evacuations

Ideal for training or rescue, the 3M™ and DEUS™ 7300 Controlled-Descent Device is a completely hands-free backup belay. It allows users to experiment with and perfect standard operating procedures for bailout, evacuation and rescue with confidence, knowing that backup belay is automatic and done right. Its also ideal as a primary system at extreme heights for one person or sequential fixed evacuations.

### 7300 CONTROLLED-DESCENT DEVICE

3M Product No.: 7300

**TECHNICAL** Approved for Backup Belay or Fixed Evacuations

Operation: Manual

Descent Rate: **2 m/sec.** (6-3/5 ft./sec.) at 310 lbs. (140.61 kg)

Max. Weight: 310 lbs. (140 kg) per ANSI, 275 lbs. (125 kg) per CSA, 330 lbs. (150 kg) per EN

Max. Descent Height: One person 590 ft. (180 m)

Rope: Use 3M and DEUS 12 mm kernmantle rope

**CONSTRUCTION** Anodized Aluminum and Stainless Steel

### WEIGHT & DIMENSIONS

Weight without rope: 15.2 lbs. (6.89 kg)

Dimensions: 7-9/10 in. height x 9-2/5 in. width x 3 in. depth (20 cm x 24 cm x 7.5 cm)

Certifications: NFPA 1983 (2012 ED) General Use "G" ANSI 359.4 (2007 ED) Multiple Use CSA Z259.2.3 (2012 ED) Type 1, Class A EN341 (2012 ED) Type 1, Class A

Warranty: Limited Lifetime Warranty (Renew every three years)

**VIGILANT** — Unlike human belay operators, the DEUS™ 7300 instantly and automatically brings a worker safely to the ground if their primary system fails.

**RE-RIGGING UNNECESSARY** — This system is designed for repetitive use with rope running through the 7300 reversibly at all times, allowing for back-to-back evolutions.

**PROVEN RELIABLE** — NFPA, ANSI, CSA and EN certified.

**INSTANT AND AUTOMATIC BACKUP** — If descent speed exceeds 2 m/sec., the 7300 instantly and automatically takes control to guard against free fall. The 7300 features a "soft engagement" to prevent shock load and injury.

**HIGHLY FLEXIBLE** — Rig to a high anchor to support multiple sequential descents without re-rigging. Rig the system to an anchor on the ground, running the belay line through a high-anchor pulley, if you want to control descent via the free end of the rope. The rope is not integrated and can be replaced in seconds.



7300 DEVICE



## BACKUP BELAY KITS

Built around the innovative 7300 device, these kits provide superior belay to primary systems. The 7300 engages automatically, limits shock load and controls descent all the way to the ground.

### KIT CONTENTS:

Each Backup Belay Kit comes pre-rigged and packed in a sturdy, water-resistant haul bag and includes:

- 7300 Backup Belay Device
- 12 mm White Kernmantle Escape & Rescue Rope with storage bag (available in 100 foot and 200 foot lengths). Rope storage bag will be size small or medium based on rope length ordered. Rope bag not shown above.
- Four Carabiners
- 4 foot Rope-Over-Wire Anchorage Connector
- Two O-rings

### DEUS 7300 | BACKUP BELAY KITS

Product #	Rope Length
BI73-100	Kit comes with 100 feet of 12 mm white kernmantle rope
BI73-200	Kit comes with 200 feet of 12 mm white kernmantle rope

# COMPONENTS/PARTS/ACCESSORIES

Kernmantle Rope	Product #	Description
 <p>For use only with 3300 device* 7.5 mm green rope is NFPA-certified</p>	A2W-7.5L-50	7.5 mm green kernmantle rope, 50 ft. length, one each
	A2W-7.5L-100	7.5 mm green kernmantle rope, 100 ft. length, one each
	A2W-7.5L-200	7.5 mm green kernmantle rope, 200 ft. length, one each
	A2W-7.5L-300	7.5 mm green kernmantle rope, 300 ft. length, one each
	A2W-7.5L-350	7.5 mm green kernmantle rope, 350 ft. length, one each
 <p>For use with 3700 device*</p>	A2W-8.0-50	8 mm orange kernmantle rope, 50 ft. length, one each
	A2W-8.0-100	8 mm orange kernmantle rope, 100 ft. length, one each
	A2W-8.0-150	8 mm orange kernmantle rope, 150 ft. length, one each
	A2W-8.0-200	8 mm orange kernmantle rope, 200 ft. length, one each
	A2W-8.0-300	8 mm orange kernmantle rope, 300 ft. length, one each
	A2W-8.0-350	8 mm orange kernmantle rope, 350 ft. length, one each
	A2W-8.0-400	8 mm orange kernmantle rope, 400 ft. length, one each
	A2W-8.0-500	8 mm orange kernmantle rope, 500 ft. length, one each
	A2W-8.0-590	8 mm orange kernmantle rope, 590 ft. length, one each
 <p>For use with 7300 device</p>	83208-100	12 mm white belay kernmantle rope, 100 ft. length, one each
	83208-200	12 mm white belay kernmantle rope, 200 ft. length, one each
	83208-300	12 mm white belay kernmantle rope, 300 ft. length, one each
	83208-350	12 mm white belay kernmantle rope, 350 ft. length, one each
	83208-400	12 mm white belay kernmantle rope, 400 ft. length, one each
	83208-500	12 mm white belay kernmantle rope, 500 ft. length, one each
 <p>For use with RTU kit</p>	2WP-7.51-050	7.5 mm blue kernmantle rope, 50 ft. length, one each

\*When purchasing replacement rope or a different length rope for an existing device, see 3700 device backplate to determine rope requirements. The last three digits of the model number indicate the version of the device and which rope to use. All model numbers ending in 005 will use 3M™ and DEUS™ 8 mm orange kernmantle rope. All model numbers ending in 004 are earlier models and will use 3M™ and DEUS™ 7.5 mm green kernmantle rope.

## ANCHORS | Rope-Over-Wire (ROW)

3M™ and DEUS™ rope-over-wire (ROW) anchorage connectors combine the flexibility and ease-of-use of synthetic rope with the strength, durability and cut-resistance of steel cable.



Color: Green  
 Strength: Rated to 7,000 lbs.  
 Construction: Polyester over galvanized steel  
 Cable Diameter: 1/4 in.  
 Total Diameter: 12-1/2 mm  
 Weight: 4 ft. — 1.32 lbs. (0.6 kg)  
 6 ft. — 1.65 lbs. (0.75 kg)  
 8 ft. — 1.98 lbs. (0.90 kg)  
 Certification: NFPA 1983:2012 "General Use"; ANSI Z359.1-2007

Product #	Description
DR-0832G-04	Green, 4 ft. length, one each
DR-0832G-06	Green, 6 ft. length, one each
DR-0832G-08	Green, 8 ft. length, one each



Color: Safety Orange  
 Strength: Rated to 10,000 lbs.  
 Construction: Polyester over galvanized steel  
 Cable Diameter: 3/8 in.  
 Total Diameter: 17-1/2 mm  
 Weight: 4 ft. — 2.86 lbs. (1.3 kg)  
 6 ft. — 3.52 lbs. (1.6 kg)  
 8 ft. — 4.18 lbs. (1.9 kg)  
 Certification: NFPA 1983:2012 "General Use"; ANSI Z359.1-2007

Product #	Description
DR-1232O-04	Orange, 4 ft. length, one each
DR-1232O-06	Orange, 6 ft. length, one each
DR-1232O-08	Orange, 8 ft. length, one each

## Angled-Descent Kits



Product #	Kit Description
ADK-GI	Angled-Descent Kit for attachment to guy line allows for quick angled descent in emergency situations. Angled Descent Kit includes device, strap and carabiner to connect guy line to worker's harness. Must be used with a 3M™ and DEUS™ Escape and/or Rescue Kit.
ADK-OG	Angled-Descent Kit for attachment to guy line allows for quick angled descent in emergency situations. Angled Descent Kit includes device, strap and carabiner to connect guy line to worker's harness. Must be used with a 3M™ and DEUS™ Escape and/or Rescue Kit. <b>Triple-lock carabiner ideal for oil and gas applications.</b>

## RTU Kits



Product #	Kit Description
RTU	RTU is a mechanical advantage 4:1 system for vertical rescue lifting. Pre-rigged kit contains one cam-locking pulley, one double pulley with integral swivel and 50 ft. of 7-1/2 mm blue kernmantle rope, two carabiners, Dyneema® sling and a storage bag. Working length of 12-1/2 feet.
RTU-OG	RTU is a mechanical advantage 4:1 system for vertical rescue lifting. Pre-rigged kit contains one cam locking pulley, one double pulley with integral swivel and 50 ft. of 7-1/2 mm blue kernmantle rope, two triple-lock carabiners, Dyneema® sling and storage bag. <b>Triple-lock carabiner ideal for oil and gas applications.</b> Working length of 12-1/2 feet.

## Carabiners & O-Rings



Product #	Kit Description
SAL-2	Steel pear-shaped, double-lock carabiner for use with 3M™ and DEUS™ Escape and Rescue Kits. 4-1/2 in. overall length, internal 3-1/2 in. x 2-1/2 in., gate opening of 1 in. 10,000 lbs. with 3,600 lbs. gate rated.
STL-3	Steel pear-shaped, triple-lock carabiner for use with 3M™ and DEUS™ Oil and Gas Escape and/or Rescue Kits. 4-1/2 in. overall length, internal 3-1/2 in. x 2-1/2 in., gate opening of 1 in. 10,000 lbs. with 3,600 lbs. gate rated.



DEUS-02	Rope termination thimble, which eliminates rope wear caused by carabiner or other connector. #2 sized for 7-1/2 mm and 8 mm rope.
DEUS-04	Rope termination thimble, which eliminates rope wear caused by carabiner or other connector. #4 sized for 12 mm rope.

## COMPONENTS/PARTS/ACCESSORIES



### Edge Protectors for Use on Bucket Trucks

Product #	Kit Description
DR100	Designed with proprietary laminate and nylon to protect moving and non-moving rope from damage when in contact with a leading edge. Dimensions: 17 in. x 6 in.
DR1040G-12	Designed with proprietary laminate and nylon to protect moving and non-moving rope from damage when in contact with a leading edge. Dimensions: 12 in. x 2.25 in.



### Straps/Slings

Product #	Kit Description
753024	Strap used to form lower attachment point on harness using side D-rings. Also for use as replacement strap on 3M™ and DEUS™ Angled-Descent Devices. Technora™ webbing is fire and cut resistant. 5,000 lb rated. <b>24 in. length.</b> NFPA-G certified. Tan color.
753012	Strap used to form lower attachment point on harness using side D-rings. Also for use with 3M™ and DEUS™ Angled-Descent Devices when a shorter strap is preferred. Technora™ webbing is fire and cut resistant. 5,000 lb rated. <b>12 in. length.</b> NFPA-G certified. Tan color.
DR-DYNS-024	Dyneema® web sling can be used to form Prusik loop when using our Rescue Transfer Unit. It is lightweight and cut resistant. 5,000 lbs. rated. 24 in. length. Various colors.



### Storage Bags

Product #	Kit Description
DR045	Black storage bag for belay rope storage. Dimensions: 2 ft. width x 1 ft. diameter.
DR160-XS	Black storage bag for Escape and Rescue kit. Dimensions: 5 in. height. Bag is for rope lengths up to 100 ft. of 8 mm rope.
DR160-S	Black storage bag for Escape and Rescue kit. Dimensions: 10 in. height. Bag is for rope lengths up to 200 ft. of 8 mm rope or 50 ft. of 12 mm rope.
DR160-M	Black storage bag for Escape and Rescue kit. Dimensions: 15 in. height. Bag is for rope lengths up to 300 ft. of 8 mm rope or 100 ft. of 12 mm rope.
DR160-L	Black storage bag for Escape and Rescue kit. Dimensions: 20 in. height. Bag is for rope lengths up to 350 ft. of 8 mm rope and RTU kit.
DR241	Black storage bag to store 3M™ and DEUS™ Rescue Transfer Unit (RTU). Dimensions: 10 in. height.



DR045



DR160-L

DR160-M



DR160-S



DR160-XS



DR241



Consider front and side D-rings when choosing a 3M™ Harness to be used with any of the 3M™ and DEUS™ Escape and Rescue products.

Ideal options include the 3M™ Elavation™ Harness 7511FQ and 3M™ Elavation™ Harness 7512FQ.

ESCAPE AND RESCUE

### 3M™ Elavation™ Full Body Harness 7511FQ

3M™ Elavation™ Premium Fall Protection Harness with Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Front, Back and Side D-rings. Protective covers for Label Pack, Web Keepers and Lanyard Keepers.

- S-M, L-XL, XXL
- 400 lbs. capacity



### 3M™ Elavation™ Full Body Harness 7512FQ

3M™ Elavation™ Premium Fall Protection Harness with Quick Connect Buckle Chest Connection, Quick Connect Buckle Leg Connection and Front, Back and Side D-rings with padded positioning belt with toolbelt holder. Protective covers for Label Pack, Web Keepers and Lanyard Keepers.

- S-M, L-XL, XXL
- 400 lbs. capacity



### Rescue Accessory

Latchways Rescue Pole can be used with any 3M™ and DEUS™ Escape and Rescue Kit to aid in use with the Rescue Transfer Unit (RTU) for assisted-rescue applications. Collapsed pole length: 2 feet, 8 inches. Fully extended: 11 feet, 2 inches. Product code: PRD-RescPole.



# Tools all together- just grab, install and get to work.

## KITS

With 3M portable safety kits, fall protection goes wherever you go. Available for roofing and aerial lift applications, our convenient kits contain the essential components of a personal fall arrest system.

## ROOFING KITS

3M roofing kits are not only designed for compliance with most roofing applications, they are designed for versatility as well, offering you a wide selection of fall protection equipment in one convenient container. Choose the harness, lanyard, anchor and rope adjuster or fall arrester that's just right for your work environment and situation. Kits come in either a durable storage bucket or tool bag (customize logo option for bag).



**20058** ★  
Roofing Kit

This roofing kit contains:

- 3M™ SafeLight Harness 10910 (Universal)
- 3M™ SafeLight 6 foot Lanyard with Snap Hooks 209512
- 3M™ 50 foot Vertical Rope Lifeline with Manual Rope Adjuster 0221-50RG
- 3M™ Reusable Roof Anchor 4000
- 3M™ Storage Bucket 5000



**20000**  
Roofing Kit

This roofing kit contains:

- 3M™ SafeLight Harness 10910 (Universal)
- 3M™ SafeLight 6 foot Lanyard 209512
- 3M™ 50 foot Vertical Rope Lifeline with Manual Rope Adjuster 0221-50RG
- Two 3M™ Single-use Disposable Roof Anchors 4651X
- 3M™ Storage Bucket 5000



**20012-SU**  
Roofing Kit

This economy roofing kit includes:

- 3M™ Three-Point Harness 10810 (Universal)
- 3M™ SafeLight 3 foot Lanyard 208510
- 3M™ 50 foot Vertical Rope Lifeline with Manual Rope Adjuster 0221-50RG
- 3M™ Reusable Roof Anchor 4000
- 3M™ Tool Bag 4521

## ROOFING KITS

Prod #	HARNESS	ENERGY ABSORBING LANYARD	ANCHOR	LIFELINE, ROPE ADJUSTER OR FALL ARRESTER	STORAGE
	Prod # — Description	Prod # — Description	Prod # — Description	Prod # — Description	Prod # — Description
<b>10000 (S-M)</b>	<b>1010</b> — 3M™ Feather Five-Point Harness (Universal)	<b>3510</b> — 3M™ SafeAbsorb 3 ft. Energy-Absorbing Lanyard	<b>4000</b> — 3M™ Reusable Roof Anchor	<b>0221-50</b> — 3M™ 50 ft. Vertical Rope Lifeline and <b>123</b> — 3M™ Self-Trailing Steel Fall Arrester	<b>4521</b> — 3M™ Tool Bag
<b>10000 (L-XL)</b>	<b>1010</b> — 3M™ Feather Five-Point Harness (Universal)	<b>3510</b> — 3M™ SafeAbsorb 3 ft. Energy-Absorbing Lanyard	<b>4000</b> — 3M™ Reusable Roof Anchor	<b>0221-50</b> — 3M™ 50 ft. Vertical Rope Lifeline and <b>123</b> — 3M™ Self-Trailing Steel Fall Arrester	<b>4521</b> — 3M™ Tool Bag
<b>10500</b>	<b>10950</b> — 3M™ SafeLight Five-Point Harness (Universal)	<b>209510</b> — 3M™ SafeLight 3 ft. Energy-Absorbing Lanyard	<b>4000</b> — 3M™ Reusable Roof Anchor	<b>0221-50</b> — 3M™ 50 ft. Vertical Rope Lifeline and <b>123</b> — 3M™ Self-Trailing Steel Fall Arrester	<b>4521</b> — 3M™ Tool Bag
<b>20000</b>	<b>10910</b> — 3M™ SafeLight Five-Point Harness (Universal)	<b>209512</b> — 3M™ SafeLight 6 ft. Energy-Absorbing Lanyard	<b>4651X</b> — Two 3M™ Single-Use Disposable Roof Anchors	<b>0221-50RG</b> — 3M™ 50 ft. Vertical Rope Lifeline with Manual Rope Adjuster	<b>5000</b> — 3M™ Storage Bucket
<b>20002</b>	<b>10910</b> — 3M™ SafeLight Five-Point Harness (Universal)	<b>209510</b> — 3M™ SafeLight 3 ft. Energy-Absorbing Lanyard	<b>4000</b> — 3M™ Reusable Roof Anchor	<b>0221-50</b> — 3M™ 50 ft. Vertical Rope Lifeline and <b>123</b> — 3M™ Self-Trailing Steel Fall Arrester	<b>4521</b> — 3M™ Tool Bag
<b>20012</b>	<b>10810</b> — 3M™ Three-Point Harness (Universal)	<b>208512</b> — 3M™ SafeLight 6 ft. Energy-Absorbing Lanyard	<b>4000</b> — 3M™ Reusable Roof Anchor	<b>0221-50RG</b> — 3M™ 50 ft. Vertical Rope Lifeline with Manual Rope Adjuster	<b>5000</b> — 3M™ Storage Bucket
<b>20012-AG1</b>	<b>1050</b> — 3M™ Feather Five-Point Harness (Universal)	<b>209510</b> — 3M™ SafeLight 3 ft. Energy-Absorbing Lanyard	<b>4000</b> — 3M™ Reusable Roof Anchor	<b>0221-50</b> — 3M™ 50 ft. Vertical Rope Lifeline, <b>129</b> — Self-Trailing Stainless Steel Fall Arrester	<b>4521</b> — 3M™ Tool Bag
<b>20012-SU</b>	<b>10810</b> — 3M™ Three-Point Harness (Universal)	<b>208510</b> — 3M™ SafeLight 3 ft. Energy-Absorbing Lanyard	<b>4000</b> — 3M™ Reusable Roof Anchor	<b>0221-50RG</b> — 3M™ 50 ft. Vertical Rope Lifeline with Manual Rope Adjuster	<b>4521</b> — 3M™ Tool Bag
<b>20058</b> ★	<b>10910</b> — 3M™ SafeLight Five-Point Harness (Universal)	<b>209512</b> — 3M™ SafeLight 6 ft. Energy-Absorbing Lanyard with Snap Hooks	<b>4000</b> — 3M™ Reusable Roof Anchor	<b>0221-50RG</b> — 3M™ 50 ft. Vertical Rope Lifeline with Manual Rope Adjuster	<b>5000</b> — 3M™ Storage Bucket
<b>20503</b>	<b>10950</b> — 3M™ SafeLight Five-Point Harness (universal size)	<b>124/209510</b> — 3M™ SafeLight 3 ft. Energy-Absorbing Lanyard with Fall Arrester attached	<b>4000</b> — 3M™ Reusable Roof Anchor	<b>0221-50</b> — 3M™ 50 ft. Vertical Rope Lifeline, <b>124</b> — 3M™ Self-Trailing Steel Fall Arrester integrated with 209510 Energy-Absorbing Lanyard	<b>4521</b> — 3M™ Tool Bag
<b>30519</b>	<b>10910</b> — 3M™ SafeLight Five-Point Harness (Universal)	<b>209512</b> — 3M™ SafeLight 6 ft. Energy-Absorbing Lanyard	<b>4550-U-6</b> — 3M™ Heavy Duty 6 ft. Cross-Arm-Strap Anchor	<b>0221-100RG</b> — 3M™ 100 ft. Vertical Rope Lifeline with Manual Rope Adjuster	<b>4701</b> — 3M™ Tool Bag
<b>30519-XXL</b>	<b>1010-XXL</b> — 3M™ Feather Five-Point Harness (XXL)	<b>209512</b> — 3M™ SafeLight 6 ft. Energy-Absorbing Lanyard	<b>4550-U-6</b> — 3M™ Heavy Duty 6 ft. Cross-Arm-Strap Anchor	<b>0221-100RG</b> — 3M™ 100 ft. Vertical Rope Lifeline with Manual Rope Adjuster	<b>4701</b> — 3M™ Tool Bag

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# AERIAL KITS

For workers in aerial and scissor lifts, these kits are designed to help simplify regulatory compliance and inventory management. As part of your personal fall arrest system, the aerial kits offer a variety of harness and lanyard combinations to choose from, while the anchor itself is found on the actual lift. Kits come in a handy storage bag that can be customized with your logo.

## 30500 Aerial Kit

This kit for use on aerial lifts contains the 3M™ SafeLight Fall Protection Harness 10910 (Universal), the 3M™ SafeLight 6 foot Energy-Absorbing Lanyard with Snap Hooks 209512 and 3M™ Tool Bag 4514 for storage.



## 30514 Aerial Kit

This kit for use on aerial lifts contains the 3M™ SafeLight Fall Protection Harness 10950 (Universal), the 3M™ SafeLight 6 foot Low Profile Energy-Absorbing Lanyard with Snap Hooks 209712 and 3M™ Tool Bag 4514 for storage.



## 30510 Aerial Kit

This kit for use on aerial lifts contains the 3M™ Ameba Harness 1450 (Universal), the 3M™ SafeAbsorb Xtra Expandable 4 foot–6 foot Energy-Absorbing Lanyard with Snap Hooks 4712-6 and the 3M™ Tool Bag 4514 for storage.



### CustomLogo

#### Logo minimum order requirements:

The aerial kits have an option to have a custom logo applied to the harness and/or the storage bag. Minimum 15-piece opening order required for kits with logos.

Minimum of five pieces required for reorders.

Order a custom logo harness by adding -H to the end of your product number (ex: 30510-H). Order a custom logo bag by adding -B to the end of your product number (ex: 30500-B). To order custom logos on both harness and bag, add -HB to the end of your product number (ex: 30514-HB).

#### Bag logo specifications:

**Dimensions** — 5 inch height x 5 inch width

**Colors** — Two maximum

**Location** — One side of bag only, other side has a 3M logo

**Format** - .eps or .ai files to be provided

See page 35 for harness logo specifications.

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# AERIAL KITS

Kit Prod #	HARNES	LANYARD	STORAGE
	Prod # — Description	Prod # — Description	Prod # — Description
30000	10910/ 209512 — 3M™ SafeLight Five-Point Harness/Lanyard Combo (Universal Size) and 3M™ SafeLight 6 ft. Energy-Absorbing Lanyard with Snap Hooks	209512 — 3M™ SafeLight 6 ft. Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30500 	10910 — 3M™ SafeLight Five-Point Harness (Universal)	209512 — 3M™ SafeLight 6 ft. Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30580-TB	10910 — 3M™ SafeLight Five-Point Harness (Universal)	3812 — 3M™ Tie-back 6 ft. Energy-Absorbing Lanyard with Tie-back Hook and Snap Hook	4514 — 3M™ Tool Bag
30501	10810 — 3M™ SafeLight Three-Point Harness (Universal)	208512 — 3M™ 6 ft. Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30502	10810 — 3M™ SafeLight Three-Point Harness (Universal)	208512 — 3M™ 6 ft. Energy-Absorbing Lanyard with Snap Hooks	4512A — 3M™ Tool Bag
30502-PB	10810 — 3M™ SafeLight Three-Point Harness (Universal)	208512 — 3M™ 6 ft. Energy-Absorbing Lanyard with Snap Hooks	Plastic Bag
30506	1452 — 3M™ Ameba Five-Point Harness (L-XL)	209712 — 3M™ SafeLight 6 ft. Low-Profile Energy-Absorbing Lanyard with Snap Hooks	4521 — 3M™ Tool Bag
30508	1050 — 3M™ Feather Five-Point Harness (Universal)	209750 — 3M™ SafeLight 6 ft. Dual-Leg Low Profile Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30510	1450 — 3M™ Ameba Five-Point Harness (Universal)	4712-6 — 3M™ SafeAbsorb Xtra Expandable 4 ft.–6 ft. Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30511	1450 — 3M™ Ameba Five-Point Harness (Universal)	3812 — 3M™ Tie-back 6 ft. Energy-Absorbing Lanyard with Tie-back Hook and Snap Hook	4514 — 3M™ Tool Bag
30512	10910 — 3M™ SafeLight Five-Point Harness (Universal)	209712 — 3M™ SafeLight 6 ft. Low-Profile Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30513	10951 — 3M™ SafeLight Five-Point Harness (Universal)	209550 — 3M™ SafeLight 6 ft. Dual-Leg Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30513-DTB	10951 — 3M™ SafeLight Five-Point Harness (Universal)	3813 — 3M™ Tie-back 6 ft. Dual-Leg Energy-Absorbing Lanyard with Two Tie-back Hooks and Snap Hook	4514 — 3M™ Tool Bag
30514 	10950 — 3M™ SafeLight Five-Point Harness (Universal)	209712 — 3M™ SafeLight 6 ft. Low-Profile Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30514-DTB	10950 — 3M™ SafeLight Five-Point Harness (Universal)	3813 — 3M™ Tie-back 6 ft. Dual-Leg Energy-Absorbing Lanyard with Two Tie-back Hooks and Snap Hook	4514 — 3M™ Tool Bag
30515	10911 — 3M™ SafeLight Five-Point Harness (Universal)	209512 — 3M™ SafeLight 6 ft. Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30516	1410 — 3M™ Ameba Five-Point Harness (Universal)	4712-6 — 3M™ SafeAbsorb Xtra Expandable 4 ft.–6 ft. Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30520	1050 — 3M™ Feather Five-Point Harness (Universal)	209712 — 3M™ SafeLight 6 ft. Low-Profile Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30523	10950 — 3M™ SafeLight Five-Point Harness (Universal)	209712 — 3M™ SafeLight 6 ft. Low-Profile Energy-Absorbing Lanyard with Snap Hooks	Plastic Bag
30524	10950 — 3M™ SafeLight Five-Point Harness (Universal)	209550 — 3M™ SafeLight 6 ft. Dual-Leg Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30540	1040-XXL — 3M™ Apache Five-Point Harness. For total user capacity of 311 lbs.–400 lbs. (XXL)	3530-E — 3M™ Apache 6 ft. Energy-Absorbing Lanyard with Snap Hooks (311 lbs.–400 lbs.)	4514 — 3M™ Tool Bag
30550	1050 — 3M™ Feather Five-Point Harness (Universal)	3550 — 3M™ SafeAbsorb 6 ft. Dual-Leg Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag
30570	10910 — 3M™ SafeLight Five-Point Harness (Universal)	3561 — 3M™ Tie-back 6 ft. Energy-Absorbing Lanyard with Snap Hooks	4514 — 3M™ Tool Bag

### Vest Harness Aerial Kits

Prod #	HARNES	LANYARD	STORAGE
	Prod # — Description	Prod # — Description	Prod # — Description
1808-K (S-M)	1808 — 3M™ Five-Point Vest Harness with bright color, including 3M™ Scotchlite™ Reflective Material (S-M)	209712 — 3M™ SafeLight 6 ft. Low-Profile Energy-Absorbing Lanyard with Snap Hooks	4521 — 3M™ Tool Bag
1808-K (L-XL)	1808 — 3M™ Five-Point Vest Harness with bright color, including 3M™ Scotchlite™ Reflective Material (L-XL)	209712 — 3M™ SafeLight 6 ft. Low-Profile Energy-Absorbing Lanyard with Snap Hooks	4521 — 3M™ Tool Bag
1808-K (XXL)	1808 — 3M™ Five-Point Vest Harness with bright color, including 3M™ Scotchlite™ Reflective Material (XXL)	209712 — 3M™ SafeLight 6 ft. Low-Profile Energy-Absorbing Lanyard with Snap Hooks	4521 — 3M™ Tool Bag

# HARDWARE AND ACCESSORIES

From storage bags and carabiners to replacement belts and D-ring extenders, our accessories deliver the same high quality and reliability you've come to expect from 3M. With safety and security always in mind, 3M™ Fall Protection is dedicated to meeting the demands of your job.

## HARDWARE



**0210-07** ★  
Carabiner

Steel autolock carabiner with 39/50 inch gate opening.



**0210-3-07** ★  
Carabiner

Large teardrop steel autolock carabiner with 2-1/10 inch gate opening.

## STORAGE



Bags are available with custom logo

**4514**  
Fall Protection Equipment Small Storage Bag

Black storage bag ideal for lanyard and harness storage. Dimensions: 13 in. length x 9 in. diameter

**4521**  
Fall Protection Equipment Medium Storage Bag

Black storage bag ideal for lanyard and harness storage. Dimensions: 20 in. length x 9 in. diameter

**4701**  
Fall Protection Equipment Large Storage Bag

Extra-large black storage bag ideal for lanyard and harness storage. Dimensions: 19 in. length x 12 in. width x 12 in. height

**5000**  
Empty Roofing Kit Bucket

Empty five gallon bucket with lid. Can be used for storing roofing kits.

## HARNESSES ACCESSORIES



**5550** ★  
Harness D-Ring Extender

Harness D-ring Extender with snap hook and D-ring connection provides an 18 inch extender for a lanyard or self-retracting lanyard snap hook to be attached to back D-ring of harness.



**5551**  
Harness D-Ring Extender

Harness D-ring Extender with rebar hook and D-ring connection provides an 18 inch extender for a lanyard or self-retracting lanyard snap hook to be attached to back D-ring of harness.



**5552**  
Harness D-Ring Extender

Harness D-ring Extender provides an 18 inch extender with soft-loop choke connection with two split D-rings for 100% tie-off.



**2501**  
Harness Leg Pad Set Large

**2500**  
Harness Leg Pad Set Small



**2110-WB-S**  
Replacement Belt for Harness

- 2110-WB-S** Replacement Belt for Harness, Small (30 in.–43 in.)
- 2110-WB-M** Replacement Belt for Harness, Medium (34 in.–47 in.)
- 2110-WB-L** Replacement Belt for Harness, Large (39 in.–52 in.)
- 2110-WB-XL** Replacement Belt for Harness, XL (44 in.–57 in.)
- 2110-WB-XXL** Replacement Belt for Harness, XXL (49 in.–62 in.)



**R-100** ★  
Suspension Trauma Strap

Suspension Trauma Strap helps to relieve discomfort normally associated with prolonged suspension. 70 inch overall length.



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\*For Xtirpa™ Confined Space, 3M™ and Deus™ escape and rescue product accessories and hardware, see applicable product sections in the catalog.

## Regulations

The Occupational Safety and Health Act (OSH) of 1971 made employers legally responsible for making their place of work safe for employees. In order to enforce the OSH Act, the Occupational Safety and Health Administration (OSHA) was created. In addition to enforcement, OSHA proposes new safety regulations and continuously updates existing ones, both of which must go through a comprehensive process to become law.

Employers have to meet all of the applicable OSHA regulations, including the General Duty Clause, which requires employers to keep their workplace free of serious recognized hazards such as falls. OSHA fall protection regulations state when fall protection is required and describe basic equipment requirements. OSHA does not explain how to use fall protection. For application questions, contact your 3M Fall Protection Representative. OSHA explicitly addresses fall protection in the following sections:

### 1926 CONSTRUCTION

#### Subpart E, Personal Protective Equipment

Body Belts, Lifelines and Lanyards ..... 1926.104  
 Safety Nets ..... 1926.105

#### Subpart L, Scaffolding

Fall Protection ..... 1926.451(g)

#### Subpart M, Fall Protection

Scope, Application and Definitions ..... 1926.500  
 Duty to Have Fall Protection ..... 1926.501  
 Fall Protection Systems Criteria and Practices ..... 1926.502  
 Training Requirements ..... 1926.503

#### Subpart R, Steel Erection

Fall Protection ..... 1926.760

#### Subpart V, Power Transmission and Distribution

Linemen Body Belts, Safety Straps and Lanyards ..... 1926.959

#### Subpart X, Ladders

Ladders ..... 1926.1053

### 1910 GENERAL INDUSTRY

#### Proposed Rule to Revise Subpart D (May 24, 2010)

#### Subpart D, Walking/Working Surfaces

Fixed Ladders, Ladder Safety Devices ..... 1910.27(d)(5)  
 Safety Requirements for Scaffolding,  
 Boatswain's Chair ..... 1910.28(j)(4)

#### Subpart F, Powered Platforms, Man Lifts and Vehicle-Mounted Work Platforms

Powered Platforms and Building Maintenance ..... 1910.66  
 Personal Fall Arrest Systems ..... 1910.66 App. C

#### Subpart J, Permit-Required Confined Space ..... 1910.146

#### Subpart R, Special Industries

Telecommunications ..... 1910.268  
 Electric Power Generation, Transmission  
 and Distribution ..... 1910.269(g)(2)

### 1915-1917-1918 MARINE TERMINALS AND LONGSHORING

Shipyard Employment, Personal Fall Arrest Systems .... 1915.159  
 Shipyard Employment, Positioning Device Systems ..... 1915.159  
 Marine Terminals, Employee Protection ..... 1917.112(b)  
 Longshoring, Deck Loads ..... 1918.33(b)  
 Longshoring, Fall Protection ..... 1918.85(j) and (k)

OSHA defines the heights and most of the circumstances for when you must use fall protection. An employee exposed to a fall from a wall opening or a hole in the floor must be protected if the fall distance is 4 feet or more for general industry, and 6 feet or more for the construction industry. Checking with a regulatory agency and employer for requirements is recommended.

Industry Trigger Heights		
General Industry	4 feet	29 CFR 1910.23 (b)(1)
Construction	6 feet	29 CFR 1926.501 (b)(1)
Steel Construction (Subpart R)	15 feet	29 CFR 1926.760 (a)(1)
	30 feet	9 CFR 1926.760 (b)(1)
Marine Terminals	4 feet	29 CFR 1917.112 (b)(1)
Shipyard Employment	5 feet	29 CFR 1915.73 (d)
Longshoring	8 feet	29 CFR 1918.2 definitions "fall hazard"

An OSHA exception: If there is a hazard below such as liquid filled tank or there is a dangerous surface or obstacle below, an employee must be protected even if the fall distance is less than a trigger height.

Note: The OSHA trigger heights for fall protection on fixed ladders is 20 feet–24 feet, depending on the industry; portable ladders that meet the OSHA criteria have no trigger height.

## Standards

Fall protection standards organizations such as the American National Standards Institute (ANSI) and the Canadian Standards Association (CSA) are made up of industry experts that agree upon and standardize requirements for the manufacture of fall protection equipment; they are voluntary. For the most part, fall protection standards focus on equipment performance, strength, testing and labeling, but some offer guidance on forming a managed fall protection program: ANSI Z359.2 (2007).

If a standard is cited by the legislative body having jurisdiction, it becomes law and therefore must be followed by employers. Always make sure that your equipment meets the most up-to-date standards.

### ANSI Z359

Definitions and Nomenclature Used for  
 Fall Protection and Fall Arrest ..... Z359.0 (2009)

Safety Requirements for Personal Fall  
 Arrest Systems, Subsystems and Components ..... Z359.1 (2007)

Minimum Requirements for a Comprehensive  
 Managed Fall Protection Program ..... Z359.2 (2007)

Safety Requirements for Positioning and  
 Travel Restraint Systems ..... Z359.3 (2007)

Safety Requirements for Assisted Rescue  
 and Self-Rescue Systems,  
 Subsystems and Components ..... Z359.4 (2007)

Specifications and Design Requirements  
 for Active Fall Protection Systems ..... Z359.6 (2009)

Qualification and Verification Testing  
 of Fall Protection Products ..... Z359.7 (2011)

Connecting Components for Personal  
 Fall Arrest Systems ..... Z359.12 (2009)

Personal Energy Absorbers and  
 Energy-Absorbing Lanyards ..... Z359.13 (2009)

Safety Requirements for Self-Retracting  
 Devices for Personal Fall Arrest and  
 Rescue Systems ..... Z359.14 (2012)

### OTHER ANSI STANDARDS

Personal Fall Protection Safety Requirements  
 for Construction and Demolition Operations ..... A10.32 (2012)

Ladders — Fixed-Safety Requirements ..... A14.3 (2008)

Safety Requirements for Confined Spaces ..... Z117.1 (2009)

### CSA STANDARDS

Full Body Harnesses ..... CAN/CSA-Z259.10-12

Fall Restrict Equipment for  
 Wood Pole Climbing ..... CAN/CSA-Z259.14-12

Anchorage Connectors ..... CAN/CSA-Z259.15-12

Self-Retracting Devices for  
 Personal Fall-Arrest Systems .... CAN/CSA-Z259.2.2-98 (R2009)

Descent Devices (Adopted ISO 22159:2007,  
 first edition, 2007-05-15,  
 with Canadian deviations) ..... CAN/CSA-Z259.2.3-12

Fall Arresters and Vertical Lifelines ..... CAN/CSA-Z259.2.5-12

Body Belts and Saddles for Work  
 Positioning and Travel Restraint ..... Z259.1-05 (R2010)

Energy Absorbers and Lanyards ..... Z259.11-05 (R2010)

Connecting Components for  
 Personal Fall Arrest Systems (PFAS) ..... Z259.12-11

Flexible Horizontal Lifeline Systems ..... Z259.13-04 (R2009)

Design of Active Fall-Protection Systems .... Z259.16-04 (R2009)

Fall Arresters and Vertical Rigid Rails ..... Z259.2.4-12

## Inspection and Product Life

3M User Instructions state that fall protection products must be inspected prior to each use and annually by an OSHA-defined “competent person” other than the user. Due to OSHA inspection requirements, 3M does not apply a mandatory shelf-life or expiration date on many of our fall protection products.

- **OSHA 1910.66 and 1926.502** require no formal inspection period, only inspection by the user before each use. 1926.502(d)(21) specifically states: *Personal fall arrest systems shall be inspected prior to each use for wear, damage and other deterioration, and defective components shall be removed from service.*
- **ANSI Z359.1-2007** states: *Equipment shall be inspected by the user before each use and, additionally, by a competent person, other than the user, at intervals of no more than one year.*
- **ANSI A10.32-2004** states: *Formal inspections shall be made by a qualified person on at least a semi-annual basis.*

Because ANSI Z359 and A10.32 are national consensus standards and law does not require compliance, your company has the discretion to determine if the standard is applicable to your workplace. You may also wish to consult your insurance carrier or your legal counsel regarding your liability and your company’s liability if you choose to use safety equipment in a manner inconsistent from what is advised by the manufacturer.

Please note that it is very important for the user to inspect the equipment before each use. We strive to make our products easy to inspect by providing detailed inspection guidelines and criteria within the 3M User Instructions supplied with each product.

For current 3M User Instructions please visit <http://www.3M.com/FallProtection>. Contact 3M Technical Service at **800-243-4630** if you have any questions or concerns.

## Product Warranty, Limited Remedy and Limitation of Liability

**WARRANTY:** THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Equipment offered by 3M is warranted against factory defects in workmanship and materials for a period of one year from date of installation or first use by the original owner.

**LIMITED REMEDY:** Upon notice in writing, 3M will repair or replace all defective items at 3M’s sole discretion. 3M reserves the right to require that the defective item be returned to its plant for inspection before determining the appropriate course of action. Warranty does not cover equipment damage resulting from wear, abuse, damage in

transit, failure to maintain the product or other damage beyond the control of 3M. 3M shall be the sole judge of product condition and warranty options. This warranty applies only to original purchaser and is the only warranty applicable to this product. Please contact 3M’s technical service department at **800-243-4630** for assistance.

**LIMITATION OF LIABILITY:** IN NO EVENT WILL 3M BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO LOSS OF PROFITS, IN ANY WAY RELATED TO THE PRODUCTS REGARDLESS OF THE LEGAL THEORY ASSERTED.

## Training

Training is required by OSHA for employees who might be exposed to fall hazards. Training must be delivered by a competent person (see 29 CFR 1926.503). At a minimum, training should include:

- Identifying fall hazards
- Setting up and dismantling fall protection equipment
- Performing prior-to-use equipment inspection
- Proper equipment storage and maintenance
- The safe use, operation and limitations of fall protection equipment and systems
- OSHA requirements/regulations for fall protection

As a best practice, training should include hands-on training where training participants are able to practice and demonstrate their competency. It is recommended in ANSI Z359.2 that training should occur every two years and be assessed annually. OSHA requires retraining when an employee demonstrates incompetence or the environment or equipment has changed. All training must be documented, and the documents must be retained.

## Developing a Managed Fall Protection Program

Most businesses have developed a written fall protection program that clearly assigns roles and responsibilities, and spells out an organization’s policies for fall protection. This written program is strongly recommended, and when required, must be site, job and/or application specific. Reasons for developing a program include ensuring compliance with legislation, legal defense from lawsuits and providing employees with clear guidance to keep them safe. A good program should include regulations, consensus standards, best practices, identification of fall hazards, a hierarchy system for addressing hazards, defined roles, training, inspection, regular audits and more.

## Competent Person

According to OSHA 29 CFR 1910.32 (f), a competent person is “one who is capable of identifying existing and predictable hazards in the surrounds or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.” The authority to take prompt corrective measures comes from the competent person’s employer. A competent person is often a manager, supervisor or a safety professional.

## Authorized Person

“A person approved or assigned by the employer to perform a specific type of duty or duties or to be at a specific location or locations at the jobsite.” [OSHA 1926.32 (d)]. ANSI Z359.2 uses “authorized person” to mean any user of fall protection who is trained to correctly use fall protection, inspect equipment prior to use and will notify a competent person if he/she recognizes a hazard or if equipment fails a prior-to-use inspection.

## Competent Equipment Inspector

This is a competent person who is granted authority by his/her employer to inspect fall protection equipment. The competent equipment inspector performs a documented inspection of fall protection equipment following the manufacturer’s instructions.

## Qualified Person

A qualified person is “one with a recognized degree or professional certificate and extensive knowledge and experience in the subject field who is capable of design, analysis, evaluation and specifications in the subject work, project, or product.” (OSHA 29 CFR 1910.66 App C)

“One who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated his ability to solve or resolve problems relating to the subject matter, the work, or the project.” [OSHA 29 CFR 1926.32 (m)]

## Clearance

Fall arrest systems require a certain amount of open, unobstructed distance below the user so that in the event of a fall, the worker will not hit any objects. There are many types of fall arrest systems, each with different clearance requirements, so it's important to read the manufacturer's instructions. The amount of clearance required often will dictate the type of fall arrest system that can be used (see figure 1).

## Swing Fall

Not only must a user of fall arrest be concerned with vertical clearance but also be aware that a pendulum-like swing can occur during a fall if the worker is off to the side of the anchorage when he/she falls. A pendulum swing must be taken seriously because a pendulum swing of 6 feet has the same amount of energy as a vertical fall of 6 feet. A swing fall into a wall or exposed rebar can cause serious injury or death. Work as near the anchorage as possible to help avoid swing-fall hazards (see figure 2).

## Rescue

Often, the most overlooked component of fall arrest is rescue. A suspended victim must be rescued promptly to reduce the chance of injury caused by suspension trauma, or venous blood pooling. Whenever fall arrest is used, a rescue plan must be in place to ensure a suspended worker is promptly rescued. Relying on public-sector emergency-rescue services is inadequate as the time it may take to rescue a victim could be too long. A rescue plan can be very simple, such as using an aerial work platform. The important point is to have a rescue plan and practice it.

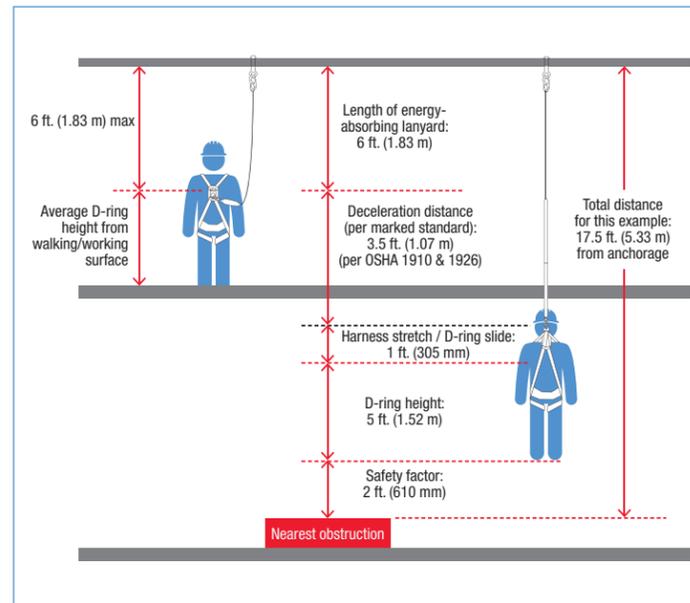


Figure 1 (Clearance)

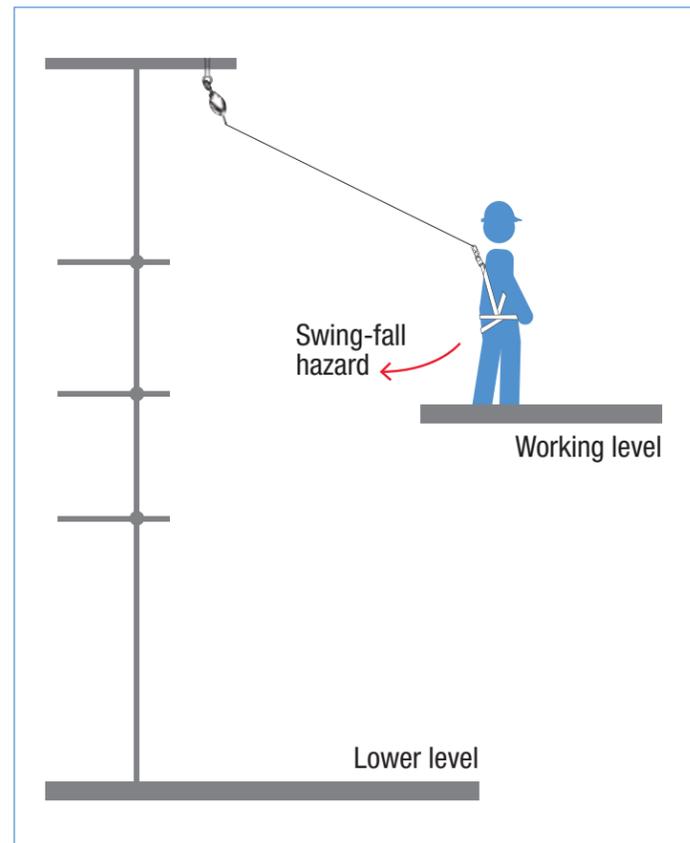
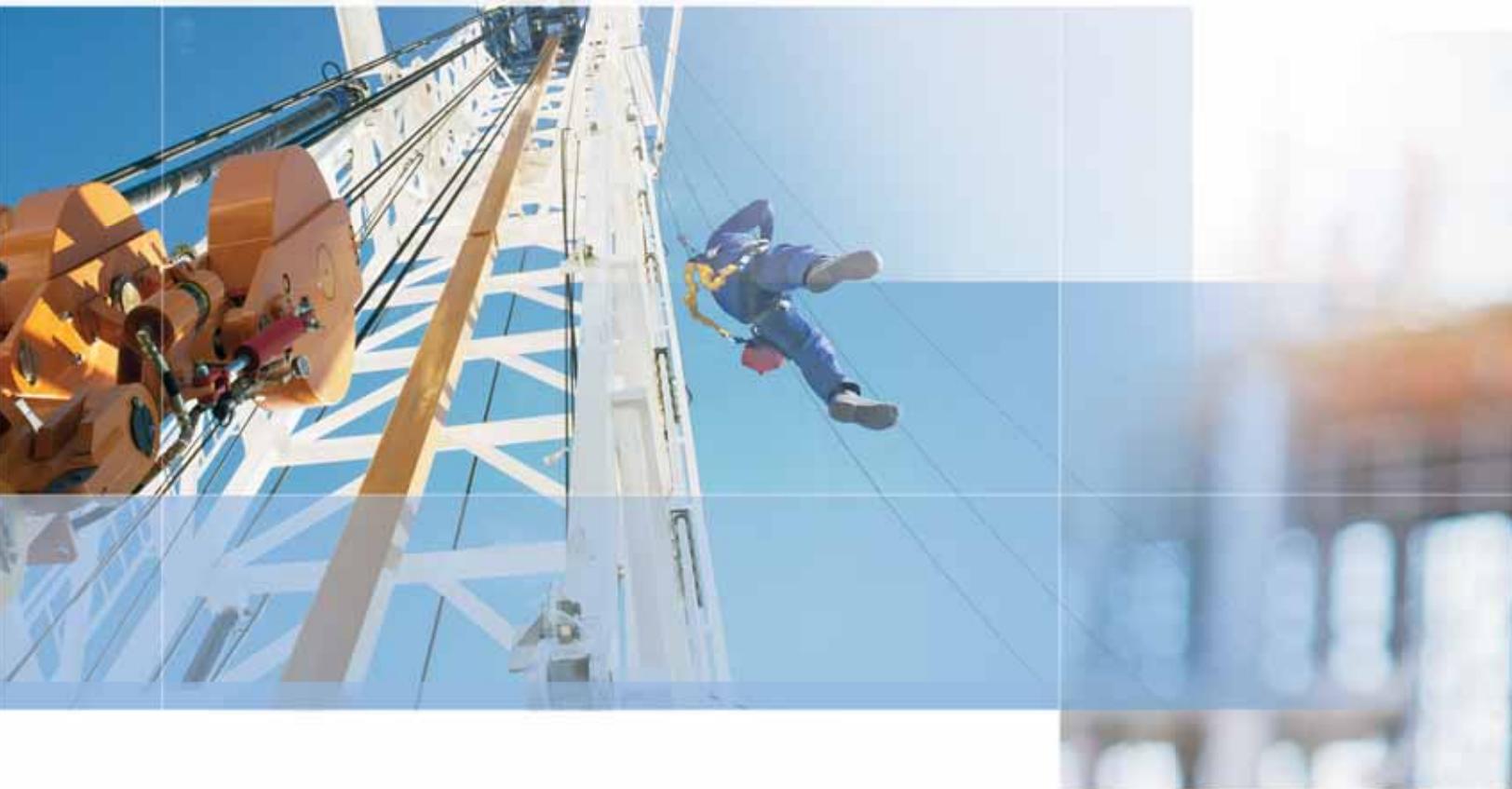


Figure 2 (Swing Fall)



## WARNING

Compliant fall protection and emergency rescue systems help prevent serious injury during fall arrest. Users must read and understand the User Instructions provided with the product and be properly trained by their employer prior to use per OSHA 1910.66 and 1926.503 or applicable local standards. Misuse or failure to follow warnings and instructions may result in serious personal injury or death.



ISO 9001  
FM 573368

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CA 2,479,513  
EP 03 744 296.9



Personal Safety Division  
3M Center, Building 235-2W-70  
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U.S.A.

### For More Information

Sales Assistance: 800-328-1667  
Technical Service: 800-243-4630 in U.S.A.  
800-267-4414 in Canada  
Website: [www.3M.com/FallProtection](http://www.3M.com/FallProtection)

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