Wind Energy

Safety at Height Solutions

Products & Services

Miller SafEscape™ ELITE
Rescue/Descent Device
Pgs. 14-15

MILLER®

by Honeywell

Safety Challenges
in the Wind Energy Industry

The rapidly growing Wind Energy Industry presents a variety of safety challenges for those working at heights. Whether in turbine construction, maintenance or rescue/ evacuation, providing safety at height solutions that enhance worker safety, comfort, trust and increase productivity has been our expertise for over 60 years.

Honeywell Safety Products takes particular pride in bringing to market innovative solutions that increase user acceptance and lower overall cost. Under the Miller® brand, the company offers engineered safety at height and rescue solutions, professional training services and the most extensive selection of fall protection equipment of any manufacturer worldwide.

With production facilities and sales offices on all major continents, the Miller brand continues to build strength as a global force by setting the standard in user-focused safety at height solutions.

PRODUCT SAFETY COMPLIANCE

- All Miller products are designed and tested by full-time qualified engineers and technicians.
- Our in-house testing facility complements independent third-party testing.
- Miller fall protection products meet all applicable CE, OSHA, ANSI and CSA requirements and standards. I.

Wind Turbine Construction, Maintenance and Rescue/Evacuation

Fall Arrest Considerations:

- Proper training and rescue plan development before a crisis occurs
- Reduce worker fatigue with lightweight and comfortable fall protection equipment
- Quick-operating descent devices along with self-rescue equipment
- Installation of vertical fall arrest ladder systems
- Proper fall protection when working from a ladder or service lift
- Variety of anchor points/connectors for safe access
- Vertical rope lifelines and rope grabs for special applications
- Fall protection equipment must be inspected, used, stored and maintained for proper performance – *a life may depend on it*

PERSONAL FALL ARREST SYSTEM

Key System Components

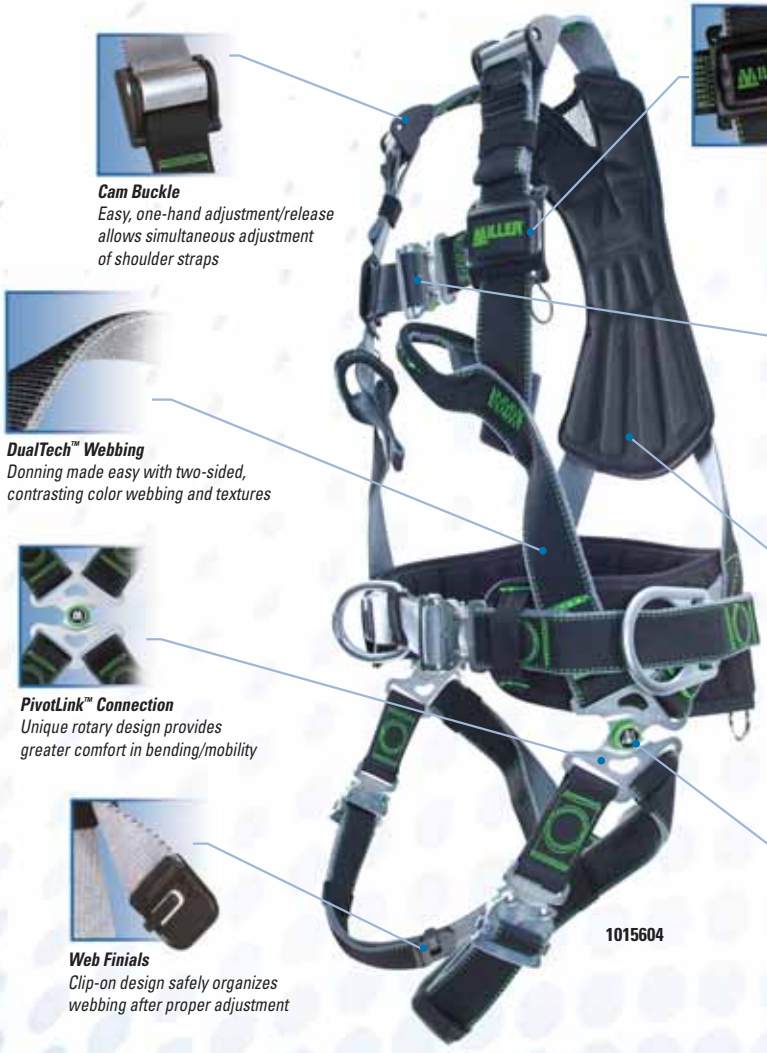
Three key components of the Personal Fall Arrest System (PFAS) must be in place and properly used to provide maximum worker protection.

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

Miller Revolution™ Harnesses

THE TURNING POINT IN HARNESS DESIGN

Introducing a totally new concept in full-body harness design. Miller Revolution Harnesses reinvent harness safety and functionality with features developed to meet key, user-identified needs. While exceeding worker expectations in comfort, fit, ease-of-use, style, durability, compliance, flexibility and convenience, the Miller Revolution Harness provides **over 11 key product features from a variety of unique components.**



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

Self-Contained Label Pack
Integrated pack encapsulates labels minimizing damage and loss

DualTech™ Webbing
Donning made easy with two-sided, contrasting color webbing and textures

Quick-Connect Chest Buckle
Interlock design similar to a seat belt, for easy donning and features a dual-tab release mechanism to prevent accidental opening

PivotLink™ Connection
Unique rotary design provides greater comfort in bending/mobility

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

Web Finials
Clip-on design safely organizes webbing after proper adjustment

Integrated Accessory System
Modular attachment design provides connection points for belts/tools/accessories

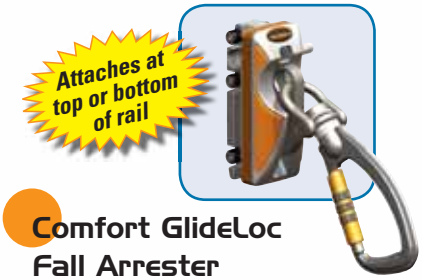
GlideLoc® Fixed Rail Ladder Climbing Systems

The innovative SOLL **GlideLoc Ladder Climbing System** can be engineered as an integral component of a new fixed ladder system, or retrofit to an existing fixed ladder. Available with a variety of accessory options to meet specific needs. Designed for ladder applications in wind power, telecommunications, utilities, industrial facilities, drilling rigs/platforms, shipbuilding, crane installation and confined space.

GLIDELOC LADDER KITS AVAILABLE

FEATURES:

- The only ladder system offering ergonomic support since the user can lean forward or back while ascending/descending, reducing fatigue; ideal for closed-cage environments
- Additional design components provide horizontal movements without the need to disconnect from the system
- Available in aluminium, galvanized steel or stainless steel.



Comfort GlideLoc Fall Arrester

- Offers all of the features listed above
- Smooth, quiet trailing action along the rail is delivered by 10 glide rollers – provides an easier, more comfortable climb
- Outside roller guides are protected by a flexible rubber ring – provides for a longer service life
- Constructed of stainless steel and aluminum – holds up well in corrosive environments

Universal II GlideLoc Fall Arrester

- Designed to be installed and removed from the rail anywhere along the system – enables transfer onto platforms and entry onto systems where ladder is submerged in snow
- Click-lock function – ensures proper installation
- No intermediate entry/exit gates are required
- Body is constructed of stainless steel – holds up well in corrosive environments

Comfort II GlideLoc Fall Arrester

- Applications which require stainless steel components with access to the ladder for entry/exit at the **top or bottom** of the rail
- Ideal for oil exploration, petrochemical, food processing, pharmaceutical, water supply, waste water, mining and coastal applications

SKU	Description
	GLIDELOC® LADDER CLIMBING SYSTEM COMPONENTS
22697	**Comfort GlideLoc Fall Arrester** – locks into the rail in the event of a fall. Stainless steel & aluminum construction.
25805	**Universal II GlideLoc Fall Arrester** – can be removed from the rail anywhere along the system enabling transfer onto platforms. Stainless steel & aluminum construction.
23331	**Comfort II GlideLoc Fall Arrester** – locks into the rail in the event of a fall. Stainless steel & aluminum construction.
15729	**Aluminum Vertical Rail** – length of 10 ft. 1 in. *(3.07 m)*
14622	**Galvanized Vertical Rail** – length of 10 ft. 1 in. *(3.07 m)*
16852	**Stainless Steel Vertical Rail** – length of 10 ft. 1 in. *(3.07 m)*
21050	**Gated Top End-Stop** – for use with vertical rail. Allows for entering & exiting the system with GlideLoc fall arresters. Stainless steel construction.
21049	**Gated Bottom End-Stop** – for use with vertical rail. Allows for entering & exiting the system with GlideLoc fall arresters. Stainless steel construction.
11634	**Rigid End-Stop** – for use with vertical rail, prevents GlideLoc fall arresters from being removed from rail. Stainless steel construction.
10903	**Rung Clamp** for diameters up to 1 in. *(25 mm)*, galvanized
14804	**Rung Clamp** for diameters 1 in. *(25 mm)* to 1-1/4 in. *(32 mm)*, galvanized
14805	**Rung Clamp** for diameters 1-1/4 in. *(32 mm)* to 1-3/4 in. *(44 mm)*, galvanized
14809	**Rung Clamp** for diameters up to 1 in. *(25 mm)*, stainless steel
14813	**Rung Clamp** for diameters 1 in. *(25 mm)* to 1-1/4 in. *(32 mm)*, stainless steel
14814	**Rung Clamp** for diameters 1-1/4 in. *(32 mm)* to 1-3/4 in. *(44 mm)*, stainless steel
19091	**Side Mount Clamp** – enables mounting rail along the side of ladder. Galvanized steel construction.
17065	**Shaft Entering Device** – allows safe entry of a shaft such as a manhole. The prongs slip into coupling device *(model 16191)*. Stainless steel construction.
16191	**Shaft Entering Coupling Device** – is attached to the top of GlideLoc rail to allow use of shaft entering device *(model 17065)*. Stainless steel construction.
23724	**Foldable Foot Rest** – provides a rest platform that conveniently folds out of the way when not in use. Galvanized steel construction.

Vi-Go™ Ladder Climbing Safety Systems

New **Vi-Go Ladder Climbing Safety Systems** provide the ultimate in safety with continuous fall protection when climbing fixed ladders. Systems are available in easy-to-install kits or as a *build your own* option – for details contact Miller Technical Service at 800/873-5242.

Vi-Go Ladder Climbing Safety Systems offer many unique advantages:

- **Lower cost of ownership** – Do-it-yourself kits for easy installation and inspection. No costly, annual manufacturer inspections often required by other systems.
- **Option to cut cable lengths on site** for greater versatility
- **Accommodate up to four (4) workers at a time** – Increasing productivity
- **Select *Automatic* or *Manual* Personal Fall Arrestor Cable Sleeves** – Both cable sleeves are designed to follow the user along the lifeline while ascending or descending, instantly locking in the event of a fall

Vi-Go Continuous Ladder Climbing Safety Systems
with Automatic Pass-Through

FEATURES:

- **Uninterrupted fall protection** – uniquely-designed, patent-pending Vi-Go Cable Sleeve automatically bypasses intermediate cable guides, keeping both hands free for climbing; travels smoothly along cable and locks instantly in the event of a fall
- **Easy, one-hand operation** for attachment/detachment from the system. No pins/chains or external parts to lose or damage.
- **Automatic pass-through cable guides** secure lifeline to prevent cable wear and enable the system to accommodate curves
- **Attachment mechanism engineered to prevent incorrect installation,** ensuring greater safety. Unit will not open if attached incorrectly.
- **Cable sleeve integrated shock-absorbing element**
- **Accommodate 5/16-in. *(8 mm)* or 3/8-in. *(10 mm)* cable**

Vi-Go Automatic Pass-Through Cable Sleeve

Automatic Pass-Through Cable Guide

Automatic Pass-Through Cable Guides

Vi-Go automatic pass-through cable sleeve glides easily through intermediate cable guides uninterrupted. Hands and feet are free for climbing.

Integrated stainless steel shock-absorbing element

Easy, one-hand attachment

Design prevents upside-down installation (channel will not open)

Vi-Go Ladder Climbing Safety Systems
with Manual Pass-Through

FEATURES:

- **Require manual removal/insertion** of cable with intermediate guides
- **Cable guides secure lifeline** to prevent cable wear
- **Manual Vi-Go Cable Sleeve follows the worker** while ascending and descending
- **Cable sleeve locks instantly** in the event of a fall
- **Accommodate 3/8-in. *(10 mm)* cable**

Manual Vi-Go Cable Sleeve with Carabiner

Manual Pass-Through Cable Guide

VI-GO™ SYSTEM KITS

Kits available in additional lengths*

Vi-Go Continuous Ladder Climbing Safety System Kits
with Automatic Pass-Through

Kits include a top bracket assembly with shock absorber, a bottom bracket assembly with lifeline tensioner, 3/8-in. *(10 mm)* galvanized steel cable lifeline, all necessary hardware, automatic pass-through intermediate cable guides (when applicable) and instruction manual.


VGCS-SC

SKU	Length of System	Number of Cable Guides
VI-GO CONTINUOUS LADDER CLIMBING SAFETY SYSTEM KITS WITH AUTOMATIC PASS-THROUGH		
VG/200FT	200 ft. *(61.0 m)*	4
VG/250FT	250 ft. *(76.2 m)*	5
VG/300FT	300 ft. *(91.4 m)*	6

*Other system kits are available in 10-ft. *(3.0 m)* increments up to 300 ft. *(91.4 m)*, and then 50-ft. *(15.2 m)* increments up to 500 ft. *(152.4 m)* *(e.g. To place an order for a Vi-Go system kit with 500-ft. (152.4 m) length cable, the model number is VG/**500**FT)*

SKU	Description
VI-GO AUTOMATIC PASS-THROUGH CABLE SLEEVE *Sold Separately*	
VGCS	Automatic Pass-Through Cable Sleeve
VGCS-C	Automatic Pass-Through Cable Sleeve with carabiner
VGCS-SC	Automatic Pass-Through Cable Sleeve with integral swivel & carabiner

***NOTE:** The Vi-Go Automatic Pass-Through Cable Sleeve can **ALSO** be used with the manual system.*

Vi-Go Ladder Climbing Safety System Kits
with Manual Pass-Through

Kits include a top bracket assembly with shock absorber, a bottom bracket assembly with lifeline tensioner, 3/8-in. *(10 mm)* galvanized steel cable lifeline, all necessary hardware, manual pass-through intermediate cable guides and instruction manual.

SKU	Length of System	Number of Cable Guides
VI-GO LADDER CLIMBING SAFETY SYSTEM KITS WITH MANUAL PASS-THROUGH		
TRS/200FT	200 ft. *(61.0 m)*	4
TRS/250FT	250 ft. *(76.2 m)*	5
TRS/300FT	300 ft. *(91.4 m)*	6

*Other system kits are available in 10-ft. *(3.0 m)* increments up to 300 ft. *(91.4 m)*, and then 50-ft. *(15.2 m)* increments up to 500 ft. *(152.4 m)* *(e.g. To place an order for a Vi-Go system kit with 500-ft. (152.4 m) length cable, the model number is TRS/**500**FT)*


TRCS-C

SKU	Description
VI-GO MANUAL PASS-THROUGH CABLE SLEEVE *Sold Separately*	
TRCS	Manual Pass-Through Cable Sleeve
TRCS-C	Manual Pass-Through Cable Sleeve with carabiner
TRCS-SC	Manual Pass-Through Cable Sleeve with integral swivel & carabiner

***NOTE:** The Vi-Go Manual Pass-Through Cable Sleeve can **ONLY** be used with the manual system or systems without cable guides.*

Miller SafEscape™ ELITE

RESCUE/DESCENT DEVICE (RDD)

New!

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

FEATURES:

- Meets all applicable safety standards globally
- No annual factory recertification
- User-rated for up to two (2) workers
- Approved for multiple descents
- Bi-directional design
- Up to 1640-ft. *(500 m)* lifeline descent capacity
- Lightweight and compact design
- Optional hoisting wheel and/or ladder bracket available
- Convenient kit options available

Pigtail –
Provides added descent control during rescue operations

Cam Cleat –
Designed for use with pigtail to lock-off device and stabilize or hold individual during rescue

Ladder Bracket *(optional)* –
Quick and easy attachment to fixed ladder rungs

Adjustable Rope Anchor –
Required anchorage for ladder bracket; easily adjusts

Carabiners –
Standard connectors on all devices. Meet all required standards globally.

Hoisting Wheel & Handle *(optional)* –
Easy grip design (foldable handle) assists with a variety of scenarios during emergency rescue

Bi-Directional Design –
As descent is initiated, the other end of lifeline ascends readying for another rescue