FOUR FUNCTIONAL EQUIPMENT CATEGORIES

FALL PROTECTION

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

- Anchorage / anchorage connector.
- Body wear (full body harness).
- Connecting device (shock-absorbing lanyards, and self retracting lifelines).

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

- Anchorage / anchorage connector.
- Body wear (full body harness or body belt).
- Connecting device (positioning lanyard).

SUSPENSION*
Suspension systems are used widely in the window washing and painting industries and are designed to lower and support a worker while allowing a hands-free work environment. A typical suspension system would include:

- Anchorage / anchorage connector (anchor bolt, trolley, carabiner, etc.)
- Body wear (full body harness).
- Connecting device (workline).
- Suspension device (Bos'n Chair).

CONFIDED SPACE
The confined space system is primarily used in confined space applications where workers must enter tanks, manholes, etc. and may require retrieval from above should an emergency occur. A confined space system typically consists of:

- Anchorage / anchorage connector (tripod, davit).
- Body wear (full body harness).
- Connecting device (retractable lifeline/retrieval unit).

* NOTE: Positioning & suspension systems are not designed for fall arrest, therefore a back up fall arrest should be used.
THE ABC'S OF FALL ARREST

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

Anchorage connector: Used to join the connecting device to the anchorage (ex. Cross-arm strap, beam anchor, etc.).

B
Body wear: The personal protective equipment worn by the worker (ex. full body harness).

C
Connecting device: The critical link which joins the body wear to the anchorage/anchorage connector. (ex. shock-absorbing lanyard self retracting lifeline.).

CALCULATING TOTAL FALL CLEARANCE DISTANCE

Shock-absorbing lanyards extend deceleration distance during a fall, significantly reducing fall arrest forces by 65 to 80 percent below the threshold of injury. However, when using a shock-absorbing lanyard, it is important to understand how to calculate potential fall distance to avoid contact with a lower level.

1. When using a 6 ft. (1.8m) shock-absorbing lanyard and a full-body harness, first add the length of the shock-absorbing lanyard [6 ft. (1.8m)] to the maximum elongation of the shock absorber during deceleration [3-1/2 ft. (1.1m)] to the height of a worker [6 ft. (1.8m) average].

2. Then, add 3 ft. (1m) as a safety factor.

3. The total, 18-1/2 ft. (5.6m) is the estimated safe fall clearance distance, the height at which you must attach to an anchorage to minimize the risk of contact with a lower level.

WARNING: Before using a shock-absorbing lanyard or self-retracting lifeline, calculate your fall distance and select the proper equipment to meet estimated fall clearance. Failure to select proper equipment and calculate fall distances may result in serious personal injury, illness or death.
FULL BODY HARNESS

FEATURES:
- Durable lightweight nylon harness with heavy duty hardware.
- Fully adjustable design, with sliding D-ring.
- Sub pelvic strap.
- Bright colours allow for increased visibility.

SFPFBHQ
Full Body Harness with back D ring.
Sold by the each, 10 each/case.

LANYARDS

FEATURES:
- Dual locking snaps with available ladder snap.
- Shock absorbing material reduces the fall arrest forces.
- Available in 4ft and 6ft lengths.
- Outer material is made of a heavy duty blue nylon.

SFP6SALQ
6ft shock absorbing lanyard with dual locking snaps. Sold by the each, 18 each/case.

SFP4SALLQ
4ft shock absorbing lanyard with one ladder snap and regular locking snap. Sold by the each, 18 each/case.

SFP6SALLQ
6ft shock absorbing lanyard with one rebar snap hook and regular locking snap. Sold by the each, 18 each/case.

SFP6SALYQ
6 ft Shock absorbing y lanyard with dual rebar snap hooks. Sold by the each, 10 each/case.
**FALL PROTECTION**

**FEATURES:**
- **SFPRK50FTQ**
  - Roofers kit complete with harness, 2ft trailing rope grab and a 50ft life line in a reusable bag.
  - Sold by the Pack, 1 pack/bag.

**AERIAL KITS**

**FEATURES:**
- Includes a full body harness, model SFPFBHQ and one lanyard.
- Lanyards are available with a regular locking snap or ladder snap.
- Units are packaged as a complete unit to offer easy ordering.
- **SFPHL6Q**
  - Full body harness, model SFPFBHQ with a 6ft shock absorbing lanyard with dual locking snaps, model SFP6SALQ.
  - Sold by the pack, 10 packs/case.
- **SFPHL6LQ**
  - Full body harness, model SFPFBHQ with a 6ft shock absorbing lanyard and rebar snap hook. Model SFP6SALLQ.
  - Sold by the pack, 10 packs/case.

**ROOFERS KIT**

**FEATURES:**
- Includes a full body harness, 2 ft shock absorbing lanyard attached to a rope grab, 50ft life line with snap hook at one end, anchor bracket, packaged in a reusable bag.
- **SFPRK50FTQ**
  - Roofers kit complete with harness, 2ft trailing rope grab and a 50ft life line in a reusable bag.
  - Sold by the Pack, 1 pack/bag.
FALL PROTECTION

REVOLUTION HARNESS

FEATURES:

- PivotLink connection provides independent bending of upper and lower torso.
- Cam buckle shoulder straps allow for easy one-hand adjustment/release.
- Stand up back D-ring simplifies connection.
- Integrated accessory system allows worker to easily attach accessories, such as radio holder.

FPRDT-QCU  Revolution harness, universal size with quick connect buckles.
FPRDT-TBU  Revolution harness, universal size with tongue buckle legs.
FPRDT-TB-DPU  Revolution, harness universal size with side D-rings, pad and tongue buckle legs.

Sold by the each, 1 each/box.
*Other revolution harness configurations available.

ACCESSORIES

FEATURES:

The PivotLink connection provides attachment points for a multitude of accessories and individual tool pouches.

FPRIA-T1  Mini cell phone holder.
FPRIA-T2  Regular cell phone/radio holder.
FPRIA-T3  Water bottle holder.
FPRIA-T6  2 pocket nail and tool pouch.
FPRIA-T7  Large multi-pouch tool bag with steel hammer loop.
FPRIA-T8  Padded hammer loop.

Sold by the each, 6 each/case.
FEATURES:

- DuraFlex stretchable harnesses conform to the shape of the worker, stretching with every movement, so there is no bunching binding or kinking.
- Bright stylish designs are readily visible.
- Available in green or blue webbing.

DURAFL Ex STRECH HARNESS

FPE650/UGN Universal size, green DuraFlex 650 harness with back D-ring and mating leg straps.

FPEE640-4/UGN Universal size, green DuraFlex 650 harness with back D-ring and tongue buckle leg straps.

Sold by the each.

DURAFL Ex CONSTRUCTION HARNESS

FPE650-77/UGN Universal size, green DuraFlex harness with back pad, side and back D-rings and tongue buckle leg straps.

Sold by the each.

DURAFL Ex MS. MILLER

FPE570/UGN Universal size, green Ms. Miller DuraFlex harness with back D-ring and mating leg straps.

Sold by the each.
FALL PROTECTION

**MANYARD II LANYARD**

**FEATURES:**
- The Manyard II is a stretchable shock absorbing lanyard.
- 6ft lanyards contract to 4ft, greatly reducing the chances of tripping, snagging or dragging.
- Bright red core makes visual inspection easier and more reliable.
- Specially-woven shock-absorbing inner core smoothly expands up to 42 inches to reduce fall arrest forces.
- Heavy-duty tubular outer jacket serves as a back up lanyard.
- Warning flag provides visual proof that lanyard has been involved in a fall and must be removed.

FP216M/6FTGN  Green 6ft Manyard II shock absorbing lanyard with dual locking snaps.
FP219M/6FTGN  Green 6ft Manyard II shock absorbing lanyard with rebar locking snap hook at one end.
FP231M/6FTGN  Green 6ft Manyard II shock absorbing lanyard with 2 connecting legs, dual rebar locking snap hooks, and one locking snap hook.

Sold by the each.

**BACKBITER LANYARD**

**FEATURES:**
- All-in-one shock absorbing lanyard with tie back capabilities.
- First snap hook with 5,000 lb gate load from any angle.
- Heavy duty polyester webbing.
- SofStop shock absorber pack is designed with a specially-woven inner core that smoothly expands up to 42 inches to reduce fall arrest forces.
- Includes a heavy-duty back-up safety strap.

FP913B/6FTGN  Green 6ft BackBiter shock absorbing lanyard with Miller Stock locking snap hooks.
FP8798B/6FTGN  Green 6ft BackBiter shock absorbing lanyard with 2 connecting legs with dual Miller Stock locking snap hooks.

Sold by the each.
### FALL PROTECTION

#### FALCON

**SELF-RETRACTING LIFELINE**

- Corrosion-resistant stainless steel and aluminum internal components extend service life and reduce replacement costs.
- Lightest composite unit on the market.
- Dual swivels (unit top and snap hook) included on all models to minimize lifeline from twisting during use.
- Engineered spring retraction tension designed not to pull or drag on a worker to reduce fatigue and increase productivity.
- Unique side payout design reduces wear on the entry guide bushing and cable for smooth operation with less drag.
- Smooth, quiet operation: engineered spring retraction tension designed not to pull or drag on a worker to improve productivity and reduce fatigue.
- Built-in, ergonomically-designed molded handle on the 50 and 60 ft units, provides support and leverage when attaching to anchorage connectors.
- New and improved load indicator on the snap hook identifies when the unit needs to be removed from service.

Rated to 400 lbs. capacity when using a SofStop shock absorber.

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### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight (lbs.)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPMP20G/20FT</td>
<td>8.9 lbs.</td>
<td>20' (6m) galvanized wire rope (3/16&quot;) (5mm) with tagline and carabiner</td>
</tr>
<tr>
<td>FPMP20SS/20FT</td>
<td>8.9 lbs.</td>
<td>20' (6m) stainless steel wire rope (3/16&quot;) (5mm) with tagline and carabiner</td>
</tr>
<tr>
<td>FPMP30G/30FT</td>
<td>10.7 lbs.</td>
<td>30' (10m) galvanized wire rope (3/16&quot;) (5mm) with tagline and carabiner</td>
</tr>
<tr>
<td>FPMP30SS/30FT</td>
<td>10.7 lbs.</td>
<td>30' (10m) stainless steel wire rope (3/16&quot;) (5mm) with tagline and carabiner</td>
</tr>
<tr>
<td>FPMP50G/50FT</td>
<td>14.8 lbs.</td>
<td>50' (15m) galvanized wire rope (3/16&quot;) (5mm) with tagline and carabiner</td>
</tr>
<tr>
<td>FPMP50SS/50FT</td>
<td>14.8 lbs.</td>
<td>50' (15m) stainless steel wire rope (3/16&quot;) (5mm) with tagline and carabiner</td>
</tr>
<tr>
<td>FPMP65G/65FT</td>
<td>17.1 lbs.</td>
<td>65' (20m) galvanized wire rope (3/16&quot;) (5mm) with tagline and carabiner</td>
</tr>
<tr>
<td>FPMP65SS/65FT</td>
<td>17.1 lbs.</td>
<td>65' (20m) stainless steel wire rope (3/16&quot;) (5mm) with tagline and carabiner</td>
</tr>
<tr>
<td>FP928LS/18INYL</td>
<td>1.4 lbs.</td>
<td>Miller SofStop shock absorber pack with locking snap hook and D-ring (for 400lbs./181kg) working load</td>
</tr>
</tbody>
</table>

Note: Locking Snap Hook ¼ inch (19mm) opening; Locking Rebar Hook 2-1/2 inch (63mm) gate opening.
PERSONAL FALL LIMITER

- Offers up to 9ft of working capacity.
- Greater versatility as it can be attached directly to the harness D-ring as a personal fall limiter, or used as a retractable lifeline.
- No annual factory recertification required.
- Visual load indicator, indicates the unit must be removed from service.
- Variety of anchor connectors and lanyard ends.
- Quick-activating, high strength stainless steel breaking system - arrests free falls.
- Small, lightweight design 2.9 lbs. (1.3kg).

### Scorpion Unit Connector Options

- Without Connector
- Steel Twist-Lock Carabiner
- Rebar Hook and Swivel Shackle
- Stainless Steel Swivel Shackle
- Carabiner and Swivel Shackle
- Captive Eye Carabiner

### Scorpion Lanyard End Connector Options

- Locking Snap Hook
- Locking Rebar Hook
- Locking Rebar Swivel Hook
- Locking Swivel Snap Hook

<table>
<thead>
<tr>
<th>Model Unit</th>
<th>Connector Options</th>
<th>Lanyard End Connector Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPPFL-1/9FT</td>
<td>Scorpion without unit connector</td>
<td>Locking snap hook</td>
</tr>
<tr>
<td>FPPFL-2/9FT</td>
<td>Scorpion w/steel twist-lock carabiner</td>
<td>Locking snap hook</td>
</tr>
<tr>
<td>FPPFL-3/9FT</td>
<td>Scorpion w/stainless steel swivel shackle</td>
<td>Locking snap hook</td>
</tr>
<tr>
<td>FPPFL-4/9FT</td>
<td>Scorpion w/carabiner and swivel shackle</td>
<td>Locking snap hook</td>
</tr>
<tr>
<td>FPPFL-6/9FT</td>
<td>Scorpion w/rebar hook and swivel shackle</td>
<td>Locking snap hook</td>
</tr>
<tr>
<td>FPPFL-7/9FT</td>
<td>Scorpion w/locking snap hook &amp; swivel shackle</td>
<td>Locking snap hook</td>
</tr>
<tr>
<td>FPPFL-8/9FT</td>
<td>Scorpion w/captive eye carabiner</td>
<td>Locking snap hook</td>
</tr>
<tr>
<td>FPPFL-9/9FT</td>
<td>Scorpion w/carabiner and swivel shackle</td>
<td>Locking rebar hook</td>
</tr>
<tr>
<td>FPPFL-12/9FT</td>
<td>Scorpion w/carabiner and swivel shackle</td>
<td>Locking, rebar swivel hook</td>
</tr>
<tr>
<td>FPPFL-14/9FT</td>
<td>Scorpion w/locking snap hook and swivel shackle</td>
<td>Locking, rebar swivel hook</td>
</tr>
<tr>
<td>FPPFL-15/9FT</td>
<td>Scorpion without unit connection</td>
<td>Locking, rebar swivel hook</td>
</tr>
<tr>
<td>FPPFL-16/9FT</td>
<td>Scorpion w/steel twist-lock carabiner</td>
<td>Locking, rebar swivel hook</td>
</tr>
</tbody>
</table>
TITAN FALL LIMITER

SELF-RETRACTING LIFELINE

- Offers up to 11ft of working space.
- Quick-activating stainless steel braking system.
- High-impact protective outer cover.
- Includes a visual load indicator.
- Items are to be discarded after a fall.
- No annual factory recertification required.
- Variety of anchor connectors available.
- Weighs only 2.5 lbs. And can fit palm of your hand.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPTFL/11FT</td>
<td>Without an anchorage connection</td>
</tr>
<tr>
<td>FPTFL-0/11FT</td>
<td>w/swivel snap hook on web lanyard end</td>
</tr>
<tr>
<td>FPTFL-1/11FT</td>
<td>w/steel twist-lock carabiner</td>
</tr>
<tr>
<td>FPTFL-2/11FT</td>
<td>w/stainless steel swivel shackle</td>
</tr>
<tr>
<td>FPTFL-3/11FT</td>
<td>w/carabiner and swivel shackle</td>
</tr>
<tr>
<td>FPTFL-4/11FT</td>
<td>w/attached 3’ (1m) cross arm strap*</td>
</tr>
<tr>
<td>FPTFL-5/11FT</td>
<td>w/locking rebar hook</td>
</tr>
<tr>
<td>FPTFL-6/11FT</td>
<td>w/rebar hook swivel shackle</td>
</tr>
</tbody>
</table>

ITEMS ARE TO BE DISCARDED AFTER A FALL.
**FALL PROTECTION**

**ROPE GRAB**

**FEATURES:**
- Miller rope grabs move easily up and down vertical lifelines to provide continuous fall protection.
- Trailing rope grabs offer complete hands-free operation.
- In the event of a fall, Miller rope grabs lock quickly.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP8174</td>
<td>Stainless steel, manual rope grab for use with 5/8&quot; or 3/4&quot; synthetic rope</td>
</tr>
<tr>
<td>FP8174MLS/4FTYL</td>
<td>8174 with attached 4' Manyard shock-absorbing lanyard with locking snap hook</td>
</tr>
<tr>
<td>FP8174RLS/2FTWH</td>
<td>8174 with attached 2' rope lanyard with locking snap hook</td>
</tr>
</tbody>
</table>

**ANCHORAGE CONNECTOR**

**FEATURES:**
The following anchorage connectors are designed as the intermediary for securing a connecting device to an anchorage. Careful consideration should be given to selecting proper anchorage for ultimate safety. The anchorage should be located a safe distance above any lower obstacles and support 5000 lbs (22kN) per worker.

- **FP496**
  - Designed for use in concrete, \( \frac{3}{4} \), 400 lbs capacity.

- **FP420**
  - Push-thru eye bolt, fits \( \frac{3}{4} \)" diameter holes, 400 lbs capacity.

- **FP8183/6FTGN**
  - 6ft cross arm strap, 400 lbs capacity.

- **FP416**
  - Permanent D-bolt anchor for up 4" working thickness. Includes 5/8 inch diameter bolt.

- **FP475**
  - 20ft. Fiberglass pole and spring-loaded hook. 400lbs. Capacity.
CONFINED SPACE EQUIPMENT

- The MightEvac combines the superior performance and reliability of the best selling MightyLite self retracting lifeline series with a quick activated retrieval mechanism for emergency evacuation.
- 20% lighter than competitive models promotes quick and easy rescue with average speed of 25ft per minute.
- For emergency evacuation only.
- Corrosion-resistant stainless steel/aluminium components.
- Convenient, heavy-duty carrying case.
- 310 lb. (1.4kN) weight capacity.

FEATURES:
- A perfect solution for a range of applications including confined space entry, rescue, positioning and personnel/material handling. A secondary fall arrest system is recommended for fall protection.
- Compact, durable steel construction.
- Smooth, controlled winding action.
- Effortless lifting and lowering with 5:1 gear ratio.
- Anti-backlash crank handle braking system prevents freewheeling.
- Built-in mounting bracket.
- 350 lb. (1.6kN) working capacity.

MIGHTEVAC SRL UNITS

<table>
<thead>
<tr>
<th>Length of wire rope</th>
<th>MightEvac unit** w/galvanized wire rope</th>
<th>MightEvac unit w/mounting bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>50&quot;</td>
<td>FPMR50G/50FT</td>
<td>FPMR50GB/50FT</td>
</tr>
<tr>
<td>100&quot;</td>
<td>FPMR100G/100FT</td>
<td>FPMR100GB/100FT</td>
</tr>
<tr>
<td>130&quot;</td>
<td>FPMR130G/130FT</td>
<td>FPMR130GB/130FT</td>
</tr>
</tbody>
</table>

Note: *Confined Space Systems also include a pulley, carabiner, and two heavy-duty equipment bags.
** For stainless steel wire rope, change the “G” to an “S” in the corresponding model number.
Note: Man Handler hoist only available in 65ft. and 100ft.

MANHANDLER HOIST/WINCH

FEATURS:
- A perfect solution for a range of applications including confined space entry, rescue, positioning and personnel/material handling. A secondary fall arrest system is recommended for fall protection.
- Compact, durable steel construction.
- Smooth, controlled winding action.
- Effortless lifting and lowering with 5:1 gear ratio.
- Anti-backlash crank handle braking system prevents freewheeling.
- Built-in mounting bracket.
- 350 lb. (1.6kN) working capacity.

FPMR50G/50FT ManHandler hoist with 65’ of galvanized wire rope.
FPMR100G/100FT ManHandler hoist with 100’ of galvanized wire rope.