

## DBI-SALA

# CONFINED SPACE ENTRY, RESCUE & DESCENT EQUIPMENT

### *Reliability When You Need It the Most*

*When it comes to rescue, it is essential that equipment operates perfectly...and fast. DBI-SALA has developed a complete line of rescue and retrieval systems that are more effective than any other in the industry. Safety engineers and site directors trust DBI-SALA for the type of high quality, rugged systems that will ensure top performance when it is needed.*

Rescue and retrieval are critical components of any fall protection program. The fast and effective performance of these tasks often means the difference between a non-injury fall and one resulting in serious worker harm. Often the longer a fallen employee remains suspended or trapped, the worse his injuries.

Rescue and descent equipment choices depend on the job site, the tasks being performed and the available manpower. Rescue and descent equipment includes tripods, davit arms, winches, comprehensive rescue systems and descent devices.

#### **Rescue Basics**

- If a fallen worker can be accessed using a lift, bucket or ladder, one of these should be used. In some cases industrial sites may rely on local fire departments to assist in rescue, but in-house rescue response times are usually much shorter.
- Rescuers should always be backed up with a secondary redundant system such as a belay system or SRL that is totally independent of the primary means of rescue.
- All rescue team members should receive training and practice on a regular basis.

#### **Confined Space Rescue**

Confined spaces, such as vaults, tanks, or manholes, are one of the most challenging of rescue situations. Cramped space and narrow openings can make access by rescuers difficult. At the same time, these situations often present problems such as inadequate ventilation or noxious air that make immediate rescue imperative. Generally a person without oxygen for four minutes will die or suffer brain damage.

The critical nature of these rescues sometimes leads to poorly planned attempts. Two-thirds of deaths in confined space rescue occur to people trying to rescue someone else. Proper equipment to perform quick, safe rescue is essential in any operation where confined spaces must be entered. DBI-SALA confined space and rescue equipment is engineered for perfect performance in critical emergency situations.



## What to look for in a Confined Space Entry & Rescue System



### EASE-OF-USE

During an emergency, speed and safety is your primary concern and decisions must be made quickly. There is no room for error! DBI-SALA Rescue Systems provide you with the confidence to handle crisis in a confined space.

### MECHANICAL SYSTEMS

The mechanical device is one of the most critical parts of the rescue system. It provides the means to retrieve an incapacitated worker to safety. Lifeline type and length are just a few of the options. In some situations, a secondary or back-up system is required.

### DURABILITY

Confined space systems have to be built to stand up to the harshest environments. Components must be designed from quality materials strong enough to endure rough use and exposure to the elements.

### VERSATILITY

The confined space system should be adjustable, readily adapting to extreme environment and uneven terrain. A modular design is also helpful, allowing you to add-on to the system over time.

### STRENGTH

The system you choose must be rated for the application you plan on using it for, such as fall arrest, rescue, man-riding or material handling. Choose a system that has been designed to maximize strength and minimizes weight.

### PORTABILITY

The portability of a rescue system is an important factor. It must be lightweight, easy to transport, set-up and store. Remember, in an emergency situation, every second counts.

### ACCESSORIES



**Boatswain's Chair** is ideal for confined space entry. **1001140**



**Y-Lanyard** connects to shoulder D-ring harness. **1201460**

## What to look for in a Rescue/Descent System

The DBI-SALA product line includes a number of high angle rescue and positioning systems, as well as descent and escape systems that are safe, easy to use and allow maximum control during use.



### VERSATILITY

Systems like the Rollgliss R350 series provide ultimate versatility. You can change hauling ratios on the fly with a variety of pulleys. Often used by fully trained rescue teams.

### EASE-OF-USE

The RPD provides a simple rescue system and incorporates general raising/lowering and positioning functions.



### PORTABILITY

The Rollgliss® Self Rescue Device is probably the simplest manual descender available—ideal for bucket truck rescue.



# DBI-SALA is the name to trust for Confined Space Rescue Equipment

Whether raising, lowering or supporting personnel or materials, our confined space rescue and retrieval systems are designed for versatility and ease of use. They serve as true workhorses, providing routine work support and fall protection, and perform as perfectly engineered rescue and retrieval systems during emergencies in areas such as manholes, tanks, bins, vaults, etc.



## ALUMINUM TRIPOD

The lightweight and portable DBI-SALA aluminum tripod is ideal for manhole entry and retrieval applications. It is easily set-up by one worker and can be transported from one location to another. Attach one or two mechanical devices and you're ready to go!

- UL Classified aluminum tripod
- Quick-mount bracket for attachment of mechanical device
- Rated working load is 350 lbs. (157kg) for work support or rescue
- Adjustable locking legs with safety chains
- Rubber safety shoes containing spiked edges for uneven surfaces
- Top pulley assembly for routing of lifeline and eyebolt anchor points

| Model # | Description     | Height    | Weight         |
|---------|-----------------|-----------|----------------|
| 8000000 | Aluminum Tripod | 7' (2.1m) | 47 lbs. (21kg) |
| 8000010 | Aluminum Tripod | 9' (2.7m) | 56 lbs. (25kg) |



## SALALIFT® II WINCH

This man-rated work support and rescue winch is lightweight and easy to use. It is manually operated by simply rotating the handle to raise or lower personnel or materials. Galvanized cable is standard, stainless and rope available.

- Gear ratio is 6:1 with an average lifting speed of 12.75'/min
- Quick-mount bracket for attachment to tripod and safety hook with impact indicator
- Free-wheel mode for operator maneuverability and overload clutch for added safety
- Polyethylene housing for reduced weight and superior corrosion resistance

| Model # | Description        | Length     | Lifeline Type                  | Weight           |
|---------|--------------------|------------|--------------------------------|------------------|
| 8102001 | SALALIFT® II Winch | 60' (18m)  | 1/4" (6.25mm) Galvanized cable | 36 lbs. (16.2kg) |
| 8102009 | SALALIFT® II Winch | 90' (27m)  | 3/16" (5mm) Galvanized cable   | 36 lbs. (16.2kg) |
| 8102005 | SALALIFT® II Winch | 120' (36m) | 3/16" (5mm) Galvanized cable   | 36 lbs. (16.2kg) |
| 8102050 | SALALIFT® II Winch | 50' (15m)  | 1/4" (6.3MM) Spectra™          | 34 lbs. (15.3kg) |



## 3-WAY SEALED SELF RETRACTING LIFELINE (SRL)

This man-rated personal fall arrest component incorporates a retrieval winch suitable for raising and lowering personnel in emergency rescue/retrieval situations. In the event of a fall, the brake will stop the fall and limit arresting forces to 900 lbs. (4kN) or less.

- Quick-mount bracket for attachment to tripod and carrying bag
- Sealed design for the ultimate in durability and corrosion resistance
- Aluminum and stainless steel construction for added corrosion resistance
- Safety hook with impact indicator

| Model #                            | Description                 | Length          | Lifeline Type                | Weight           |
|------------------------------------|-----------------------------|-----------------|------------------------------|------------------|
| 3400107                            | Sealed SRL with bracket     | 30 ft. (9m)     | 1/4" (6.3mm) Spectra™        | 36 lbs. (16.2kg) |
| 3400307                            | Sealed SRL with bracket     | 55 ft. (16.5m)  | 1/4" (6.3mm) Spectra™        | 52 lbs. (23.4kg) |
| 3400115                            | Sealed SRL with bracket     | 50' (15m)       | 3/16" (5mm) Galvanized cable | 41 lbs. (18.5kg) |
| 3400311                            | Sealed SRL with bracket     | 85' (26m)       | 3/16" (5mm) Galvanized cable | 59 lbs. (26.5kg) |
| 3400509                            | Sealed SRL with bracket     | 130' (39m)      | 3/16" (5mm) Galvanized cable | 83 lbs. (37.4kg) |
| 3400620<br>Not available in Canada | Non-Sealed SRL with bracket | 175 ft. (52.5m) | 3/16" (5mm) Galvanized cable | 115 lbs. (52kg)  |

**NOTE: In Canada add a 'C' to the end of the part number.**



## TRIPOD & SALALIFT® II RESCUE SYSTEM

This DBI-SALA system is ideal for typical manholes and combines our lightweight and portable aluminum tripod with the SALALIFT® II Winch. The system is easily set-up by one worker and can be transported from one location to another.

- Complete confined space entry/retrieval system
- Includes tripod, winch and/or self retracting lifeline
- All systems are man-rated
- All mounting hardware and brackets are included

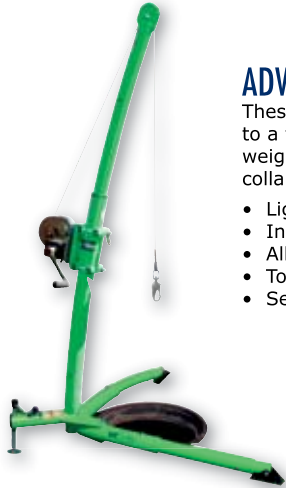
| Model # | Tripod    | Winch                                 | SRL                                 | Weight            |
|---------|-----------|---------------------------------------|-------------------------------------|-------------------|
| 8300030 | 7' (2.1m) | 60' (18m)<br>1/4" (6.25mm) Galvanized | N/A                                 | 83 lbs. (37.4kg)  |
| 8300034 | 7' (2.1m) | 120' (36m)<br>3/16" (5mm) Galvanized  | N/A                                 | 84 lbs. (37.8g)   |
| 8301000 | 7' (2.1m) | N/A                                   | 50' (15m)<br>3/16" (5mm) Galvanized | 94 lbs. (42.4g)   |
| 8304010 | 7' (2.1m) | 60' (18m)<br>1/4" (6.25mm) Galvanized | 50' (15m)<br>3/16" (5mm) Galvanized | 133 lbs. (59.9kg) |
| 8304012 | 9' (2.7m) | 60' (18m)<br>1/4" (6.25mm) Galvanized | 50' (15m)<br>3/16" (5mm) Galvanized | 146 lbs. (65.7kg) |

## ADVANCED BASIC HOIST SYSTEMS

These systems are the most efficient and economical confined space entry and retrieval alternative to a tripod. The Advanced Basic Hoist features a 5,000 lb. anchor point, overload indicator and lightweight construction. The high-visibility fluorescent green Advanced Basic Hoist features a collapsible base to reduce storage and transport space.

- Lightweight aluminum construction
- Includes 5,000 lbs. (22kN) anchor point for fall-arrest devices
- All hardware is zinc plated for corrosion resistance
- Top pulley assembly for routing of lifeline
- See page 54 for winch options

| Model #        | Description                                   | Weight           |
|----------------|-----------------------------------------------|------------------|
| <b>8517069</b> | Advanced Basic Hoist (order winch separately) | 58 lbs. (26.1kg) |
| 8525001        | Advanced Basic Hoist with 40' winch           | 80 lbs. (36kg)   |



## COUNTERWEIGHT SYSTEM

This system is composed of a central base unit to accommodate a variety of anchoring options, positioning and adjustment legs, and extension assemblies. Anchoring options include a weight rack for counter balanced applications, a rail clamp assembly for anchorage to railway track rails, and a wheel pad assembly to allow counter balance of the unit with an attendant vehicle.

**System shown with the following Items:**

- **8512894** Counterweight System Base Assembly
- **8518383** Adjustable Upper Davit Arm
- **8518558** Digital 100 Series Winch
- **3400115** 3-Way Sealed SRL
- **8516824** Bracket for winch and SRL (2 each)
- **8510207** Bracket for SRL

| Model #        | Description          | Weight            |
|----------------|----------------------|-------------------|
| <b>8512894</b> | Counterweight System | 199 lbs. (89.5kg) |



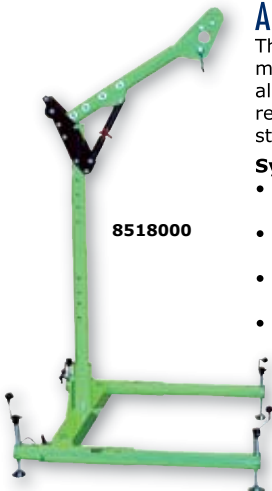
## ADVANCED 5-PIECE HOIST SYSTEMS

These units are constructed of lightweight materials including high strength aluminum. The davit pivots for ease of rescue and the base adjusts to fit most standard entries. Other bases available.

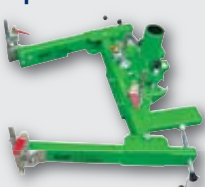
**System comes complete with:**

- 12"- 29" (30-72mm) Adjustable Offset Mast **8518001**
- 33" (82.5cm) Lightweight Lower Mast **8518002**
- Three-Piece Lightweight Base **8518005**
- Winch and SRL's sold separately

| Model #        | Description                                      | Weight           |
|----------------|--------------------------------------------------|------------------|
| <b>8518000</b> | Advanced 5-Piece Hoist System                    | 100 lbs. (45kg)  |
| <b>8518001</b> | Adjustable Upper Davit Arm, 12"-29" (30-72mm)    | 22 lbs. (9.9kg)  |
| <b>8518002</b> | Lower Mast Extension, 33" (82.5cm)               | 18 lbs. (8.1kg)  |
| <b>8519378</b> | Internal Tank Collar                             | 61 lbs. (27.5kg) |
| <b>8512285</b> | Adj. Barrel Mount Sleeve, 24" (60cm) max opening | 56 lbs. (25.2kg) |
| <b>8510140</b> | Vehicle Hitch Mount Sleeve                       | 57 lbs. (25.7kg) |
| <b>8510109</b> | Core Mount Sleeve Fixed Base                     | 8 lbs. (3.6kg)   |
| <b>8516190</b> | Floor Mount Sleeve Fixed Base                    | 13 lbs. (5.9kg)  |
| <b>8516191</b> | Wall Mount Sleeve Fixed Base                     | 12 lbs. (5.4kg)  |



## Optional Portable & Fixed Bases



**8519378**



**8512285**



**8510140**



**8510109**



**8516190**



**8516191**



## PORTABLE FALL ARREST POST SYSTEM

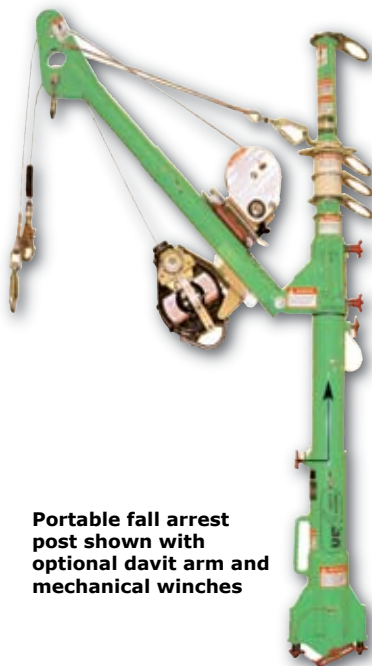
The Portable Fall Arrest Post is specifically designed for use on top of transformers or other types of vertical platforms with potential fall hazards. Its compact and lightweight design of only 38 lbs. (17kg) makes the post very easy to transport and set-up. The system features 3 independent swivel anchor points. They can rotate 360 degrees, offering complete freedom of movement for up to 3 workers with self retracting lifelines. It is also equipped with an anchorage point for a horizontal lifeline and tie-back if necessary. This post can offer up to a 5,400 lb. (2449kg) anchorage point for a horizontal lifeline in the lowest position without a tie-back.

The Portable Fall Arrest Post has three telescopic working heights ranging from 30.5" (774mm), 43" (1092mm), all the way up to 54.5" (1384mm). This offers a higher point of anchorage over the previous models to further decrease a worker's fall distance and increase the overall work area.

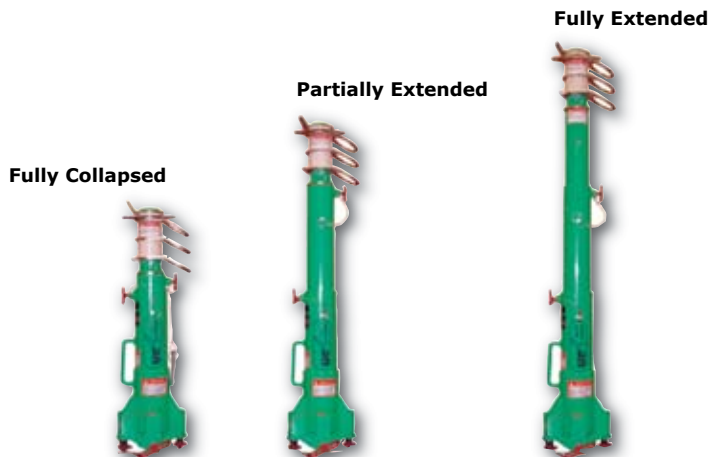
The Portable Fall Arrest Post can also be equipped with a davit arm for confined space entry and retrieval applications. Fall arrest and rescue in one completely modular and versatile system.



Model 8516691 shown with 3101001 retractable lifelines and 1110100 ExoFit™ XP harnesses



Portable fall arrest post shown with optional davit arm and mechanical winches



### PORTABLE FALL ARREST POST/DAVIT SYSTEMS

| Model #        | Description                                     | Weight                   |
|----------------|-------------------------------------------------|--------------------------|
| <b>8516691</b> | Portable Fall Arrest Post                       | 38 lbs. (17.1kg)         |
| 8516692        | 14" (356mm) Extension Post                      | 5 lbs. (2.3kg)           |
| <b>8516693</b> | Davit Arm                                       | <b>20.5 lbs. (9.3kg)</b> |
| 8517565        | Carrying Bag for PFAS or Davit Arm              | <b>1.5 lbs. (.7kg)</b>   |
| 8517412        | Bare Steel Base Uni-Anchors with Tie-Off Anchor | <b>11.8 lbs. (5.3kg)</b> |
| 8510816        | Weld-On Plate Base                              | <b>11.6 lbs. (5.2kg)</b> |
| 8516997        | Uni-Anchors I-Beam Base, Portable Clamp-On      | <b>56 lbs. (25.2kg)</b>  |

Order Self Retracting Lifeline or winch separately.

## POLE HOIST SYSTEM

The Pole Hoist System is an extremely versatile piece of confined space entry/retrieval and rescue equipment. Simply carabineer the universal bracket to a suitable anchor point, and you're ready to work in any direction from any angle. The Pole Hoist System has a unique swivel head that rotates 360 degrees, providing unparalleled flexibility in both vertical and horizontal confined space entries. Overall length adjusts from either 4' to 7' (1.2m to 2.13m) or 6' to 10' (1.8m to 3.05m) for positioning attendant for working in close quarters. Custom Pole Hoist sizes are available – please call for details. Order winch separately.



**Model 8510409 with 8511235 and Winch/Bracket**

## POLE HOIST SYSTEM

| Model # | Description                                                        | Weight                |
|---------|--------------------------------------------------------------------|-----------------------|
| 8510409 | 4' to 7' (1.2m to 2.13m) Pole Hoist with Swivel Head and Hardware  | 12 lbs. (5.4kg)       |
| 8510476 | 6' to 10' (1.8m to 3.05m) Pole Hoist with Swivel Head and Hardware | 5 lbs. (2.3kg)        |
| 8511235 | T-bar Leg Assembly for Pole Hoist                                  | <b>7 lbs. (3.2kg)</b> |



**Portable Mount Application with 8511233 Arm and 8511231 Tank Collar and winch**

**Model 851233 Shown**

**Model 8511231 Shown**

## SIDE ENTRY SYSTEM

The Side Entry System is designed for confined space entry/retrieval and rescue operations involving horizontal entries with vertical positioning or retrieval required inside the space. The Side Entry System may be used with the model 8511231 External Adjustable Tank Collar for adaptation to different manways. It may also be used with a permanently mounted base and extension post. The Side Entry System features flexible setup options and a fully articulating boom system. It is fully adaptable to an infinite number of manway designs and surrounding configurations.



**Permanent Mount Application with 8511233 Arm, 8514796 Post, and 8510101 Extension. Permanent Mount Base shown is model 8512831**

## SIDE ENTRY SYSTEM

| Model # | Description                                                                                                      | Weight                  |
|---------|------------------------------------------------------------------------------------------------------------------|-------------------------|
| 8511233 | Arm Assembly for the Side Entry System for use with External Adjustable Tank Collar or permanently mounted bases | 69 lbs. (31kg)          |
| 8511231 | External Adjustable Tank Collar                                                                                  | 52 lbs. (23.4kg)        |
| 8514796 | Support Post: 38" to 53.5" (965mm to 1359mm) for use with Permanent Base (see page 51 for Base Options)          | <b>35 lbs. (15.8kg)</b> |
| 8510101 | 24" (610mm) Mast Extension for use with Permanent Base                                                           | <b>19 lbs. (8.6kg)</b>  |
| 8510102 | 36" (914mm) Mast Extension for use with Permanent Base                                                           | <b>23 lbs. (10.4kg)</b> |



### ADVANCED DIGITAL SERIES WINCHES

These winches are rated for 450 lbs. (204kg) with an 11:1 safety factor. It offers 2 cranking speeds capable of retrieval/descent at average speeds from 13'/min up to 30'/min.

- Digital usage indicator counts revolutions of drum for servicing
- Braking system with 3 independent working pawls and centrifugal back-up system
- Lifeline includes swiveling snap hook with overload indicator

| Model # | Description                | Length    | Lifeline Type         | Weight           | Handle    |
|---------|----------------------------|-----------|-----------------------|------------------|-----------|
| 8518559 | Advanced Digital 100 Winch | 90' (27m) | 3/16" (5mm) Stainless | 33 lbs. (14.9kg) | Permanent |
| 8518558 | Advanced Digital 100 Winch | 60' (18m) | 3/16" (5mm) Stainless | 30 lbs. (13.5kg) | Removable |

### BASIC SERIES WINCHES

Basic winch includes a permanently mounted handle to the 5.1:1 hub drive with an average speed of 30'/min (9m/min). The handle is simple to use and features a foldaway crank.

- Zinc plated winch with quick plate adaptor - use with 8510222 quick mount bracket
- Comes with load limiter clutch to indicate a fall or misuse



| Model #        | Description | Length    | Lifeline Type          | Weight          |
|----------------|-------------|-----------|------------------------|-----------------|
| <b>8518666</b> | Basic Winch | 40' (12m) | 3/16" (5mm) Galvanized | 22 lbs. (9.9kg) |
| 8518667        | Basic Winch | 40' (12m) | 3/16" (5mm) Stainless  | 22 lbs. (9.9kg) |

### WINCH MOUNTING BRACKETS

| Model #        | Description                                                                                                                               |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8510207</b> | Winch/SRL adapter bracket, used with 8516824, allows DBI-SALA SALALIFT® winches and 3-way sealed SRL's to attach to Advance Series Davits |
| <b>8516824</b> | Quick release mounting bracket, mounts to Advanced Series Upper and Lower Mast                                                            |



8510207



8516824

## DBI-SALA is the name to trust for Rescue/Descent Equipment

The DBI-SALA product line includes a number of high angle rescue and positioning systems that are easy to use, safe and allow for maximum control during use. Our descent control systems are safe, reliable and built to perform when you really need them.



### ROLLGLISS® RESCUE SYSTEM

The Rollgliss® system includes the patented one way top shive (only turns when raising) providing efficient hauling, but more importantly very controlled lowering (a finger and thumb are all that is required to hold a load). This system also allows you to change the hauling ratios on the fly with a quick release double locking button on the top and auto locking carabiners on the bottom. This allows for rigging the system for a roof top rescue, tower rescue, or two person rescue. Standard system comes complete with the Rollgliss® device, rope control device, anchor sling and carrying bag.

| Model # | Description                         | Travel Length | Lifeline Type     |
|---------|-------------------------------------|---------------|-------------------|
| 8902004 | Rollgliss® Rescue System, 3:1 Ratio | 50' (15m)     | 200' of 3/8" Rope |
| 8902006 | Rollgliss® Rescue System, 3:1 Ratio | 100' (30m)    | 400' of 3/8" Rope |
| 8900249 | Rope Control Device Only            |               |                   |

**NOTE: Rope sold in increments of 10', many other accessories, including pulleys for ratios of 2:1, 4:1 and 5:1 and winch handles available – call for details.**



### RPD - RESCUE POSITIONING DEVICE

The RPD system was designed to provide a safe and simple rescue system and incorporates features for general raising/lowering and positioning during normal work activities. The RPD unit includes a speed sensing lock for added safety, as well as to allow the worker to manually lock off the device once you reach a work level. It is ideal for servicing buildings, bridges, dams as well as within confined spaces. The device may be operated by the user or a second standby worker. Comes complete with unit, rescue and anchor slings, two carabiners and storage bag.

| Model # | Description           | Travel Length | Lifeline Type     |
|---------|-----------------------|---------------|-------------------|
| 3600050 | RPD System, 3:1 Ratio | 50' (15m)     | 200' of 3/8" Rope |
| 3600100 | RPD System, 3:1 Ratio | 100' (30m)    | 400' of 3/8" Rope |
| 3602050 | RPD System, 4:1 Ratio | 50' (15m)     | 250' of 3/8" Rope |
| 3602100 | RPD System, 4:1 Ratio | 100' (30m)    | 500' of 3/8" Rope |

**NOTE: Last three digits in part number indicates length of travel**



### ROLLGLISS® SELF RESCUE DEVICE — BUCKET TRUCK DESCENDER

This system is probably the simplest manual descender available. This product is pre-rigged and ready to go; simply connect the snap hook on the top to a 1,500 lb. (682kg) anchor, slide the sling over the user (or connect a carabiner if the worker is wearing a harness with a front D-ring), throw the bag of web over the edge and start your descent by pulling down on the handle. Maximum descents of up to 55' (16.5m) with up to 2 workers on the system.

| Model # | Description                   | Travel Length | Lifeline Type                      |
|---------|-------------------------------|---------------|------------------------------------|
| 3304001 | Rollgliss® Self Rescue Device | 55' (16.5m)   | 55' (16.5m) of 1" (25mm) Nylon Web |



### ROLLGLISS® RESCUE KIT

The Rollgliss Rescue Kit allows rescue to be performed by anyone - no need to be a rescue specialist. The kit is easily transported in backpack type bags, and stays together so there are no lost parts. The system only takes a few minutes to set up and perform a rescue, and rescue can be performed safely from above victim - no need to descend to person being rescued. Pole is used to attach system to victim, and all raising or lowering activities are done from above. The kit includes all the necessary parts: descender, carabiner, rope with hook attached, mini-haul system, anchorage strap and two carrying bags.

| Model # | Description           | Travel Lengths                    | Lifeline Type      |
|---------|-----------------------|-----------------------------------|--------------------|
| 8900292 | Rollgliss® Rescue Kit | 33' (16.5m), 66' (33m), 99' (50m) | 7/16" (11mm) nylon |