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[DBI SALA 8518008 Advanced Hoist Systems](#)



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A Capital Safety Company

***Portable Fall Arrest
Systems & Accessories***



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Unique Concepts has specialized in the design and manufacture of confined space, fall protection & rescue systems for over 18 years. Our unique experience in this field allows us to offer products and services that can be copied, but never equaled.

1. *ISO 9001:2000 Registered.* Unique Concepts is constantly improving our design and manufacturing process to provide unparalleled service to our customers.

2. *Quality Standards.* Unlike others, Unique Concepts keeps as much of its design and manufacture as possible under our own control to ensure the highest quality of manufacture and parts.

3. *Certified Welding Inspected by Third Party Experts.* Our welding is certified by the Canadian Welding Bureau (CWB) to Canadian Standards Associations (CSA) standards.

4. *Experienced Design.* Our customers benefit from the wealth of experience our long serving managerial and design staff brings to bear on any question. We hold 18 patents, and more are coming.

5. *Third Party Validation of Systems.* We physically test our products at our facility. Our specifications sheets are certified by Delta-T Engineering, who witness & validate our tests. BSI, from the United Kingdom, provides our third party CE testing and reporting services.

6. *Modular Approach to Systems.* One system does not work for all applications! Our systems are engineered to be modular. One system can be easily adapted to many different situations. The result: less costly and more effective solutions.

7. *Custom Design and Manufacture.* Not in our catalogues? Let's talk. You may be surprised by what we can do for you. We amaze our customers with solutions that work for their specific applications. Chances are we have already designed a product that can be modified or adapted for your needs.

8. *Constant Innovation.* Unique Concepts is constantly looking for ways to improve existing products and develop new ones. We have constantly reinvested 5% of gross revenue into research and development.

**You are reading the brochure
highlighted below:**

**Look for these additional UCL Accessory
brochures marked * to accompany this
catalogue:**

Hoists, Davits, Bases & Accessories - #9700101

Vehicle Hitch Mount Sleeve - #9700102

Counterweight Systems - #9700103

*** Winches & Brackets - #9700104**

Tripods & Accessories - #9700105

Pole Hoist - #9700106

Side Entry/Tank Pod Systems - #9700107

Portable Fall Arrest Systems - #9700108

Engineered Systems - #9700109

Portable Tanker Access Ladder Sys. - #9700110

Basic Hoists - #9700111

Fold Up Hoist - #9700112

Glide 360 Rail System - #9700113

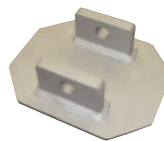
UCL Product Summary - #9700114




17412

Bare Steel Anchor Plates: For use in closed environments without chemical or moisture exposure.

Price:	Part #	Description
_____	17412	Plate with Tie-off Anchor
_____	10816	Standard Plate
_____	17413	Plate for Inclined Surfaces with Tie-Off Anchor
_____	17433	Plate for Inclined Surfaces


17423

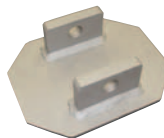
Sand Blasted Steel Uni-Anchor Plates: For general paint applications

Price:	Part #	Description
_____	17422	Plate with Tie-Off Anchor
_____	17423	Standard Plate
_____	17424	Plate for Inclines Surfaces with Tie-Off Anchor
_____	17425	Plate for Inclined Surfaces


17345

Stainless Steel Bushings, Sand Blasted & Primer Finish Steel Uni-Anchor Plates: For epoxy paint applications.

Price:	Part #	Description
_____	17266	Plate with Tie-Off Anchor
_____	17344	Standard Plate
_____	17345	Plate for Inclines Surfaces with Tie-Off Anchor
_____	17346	Plate for Inclined Surfaces


16777

Stainless Steel Uni-Anchor Plates, Sandblasted: For areas where the Uni-Anchor will be exposed to harsh environments.

Price:	Part #	Description
_____	17415	Plate with Tie-Off Anchor
_____	16777	Standard Plate
_____	17414	Plate for Inclines Surfaces with Tie-Off Anchor
_____	16848	Plate for Inclined Surfaces


17416

Uni-Anchor Lugs: To weld the lugs directly to the structure. Contact UCL for mounting details.

Price:	Part #	Description
_____	17417	Bare Steel Lugs, One with Tie-Off Anchor
_____	17416	Bare Steel Lugs, Pair
_____	17419	Bare Steel Lugs with Bushings, One with Tie-Off Anchor
_____	17418	Bare Steel Lugs with Bushings, Pair
_____	17421	Stainless Steel Lugs, One with Tie-Off Anchor
_____	17420	Stainless Steel Lugs, Pair


17426

Vertical Steel Uni-Anchor Plates: For vertical structure applications.

Price:	Part #	Description
_____	17347	Plate with Stainless Steel Bushings, Sandblasted and Primer
_____	17426	Standard Plate, Bare Steel

MOUNTING REQUIREMENTS FOR UNI-ANCHORS

Fall-Arrest Post Model # & Type	Moment Requirement	Vertical Load Requirement
Model 11226 Portable Fall-Arrest Post	110,000 in-lbs (12.1 kN-m)	3000 lbs (13.4 kN)
Model 14249 Variable Height Portable Fall-Arrest Post	155,000 in-lbs (17 kN-m)	3000 lbs (13.4 kN)
* Model 16691 Advanced Series Portable Fall-Arrest Post	190,000 in-lbs (20.8 kN-m)	3100 lbs (13.8 kN)
Model 16996 Advanced Series 14 ft Anchor Post	130,000 in-lbs (14.2 kN-m)	2250 lbs (10.0 kN)

* Install to this strength requirement wherever possible to avoid potential incompatibility with different models.

Portable Uni-Anchor


16997

**Uni-Anchor
I-Beam Base**
(Bag, Part # 17567)

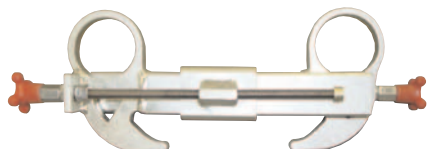
Pro-Anchor Plate


12322

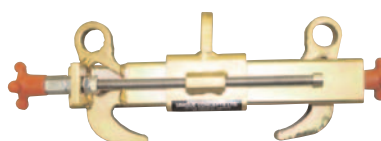
**Pro-Anchor
Plate**

For use with PFAS Post Pro-Anchor Style Part #: 17362

Beam Clamps

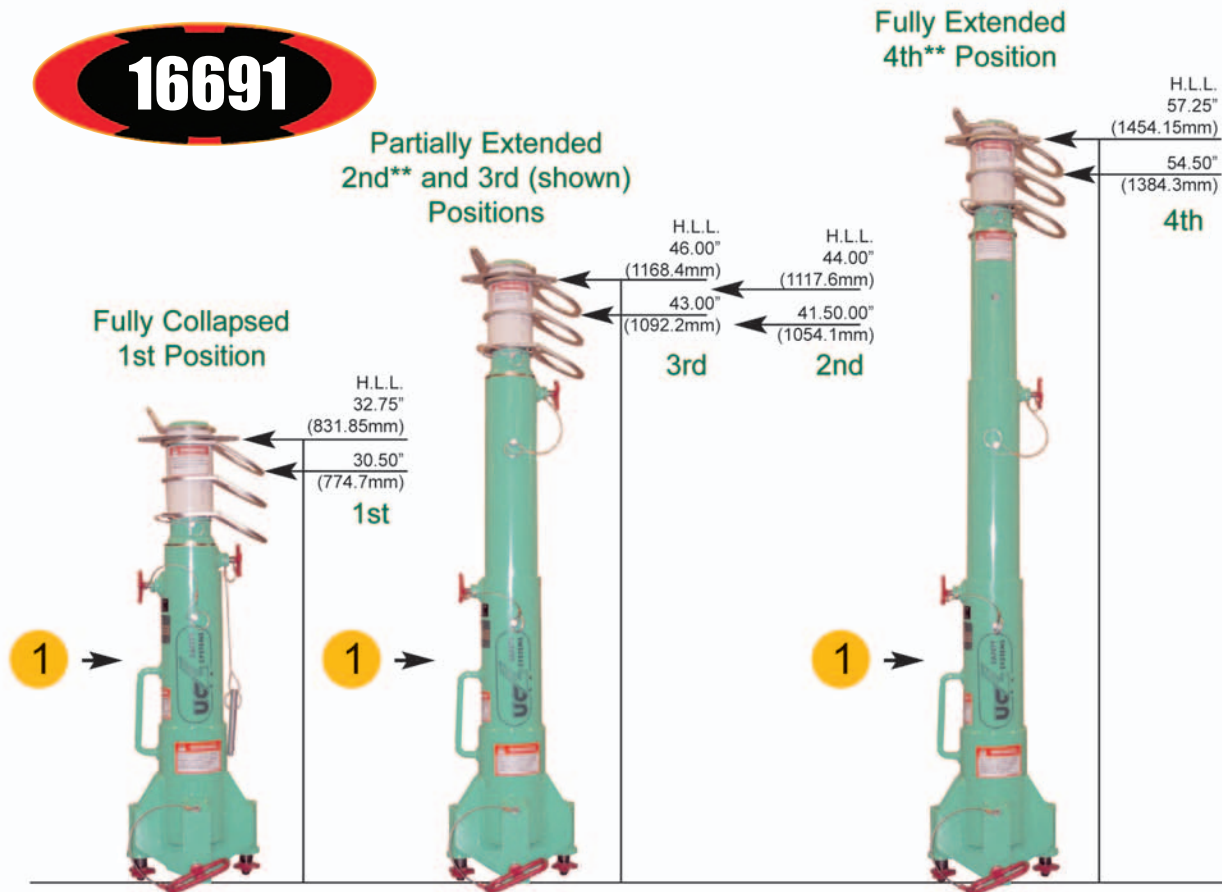

16836

**I-Beam Clamp
Portable Anchor**
(Bag, Part # 17566)


11862

**I-Beam Clamp
Portable Anchor
w/ Tie-Off Anchor**
(Bag, Part # 17566)

16691



*Please see specification sheets for complete dimensions of this system

**Note: Rescue Davit Arm works in the 2nd and 4th positions only.

Portable Fall-Arrest System Anchor Post

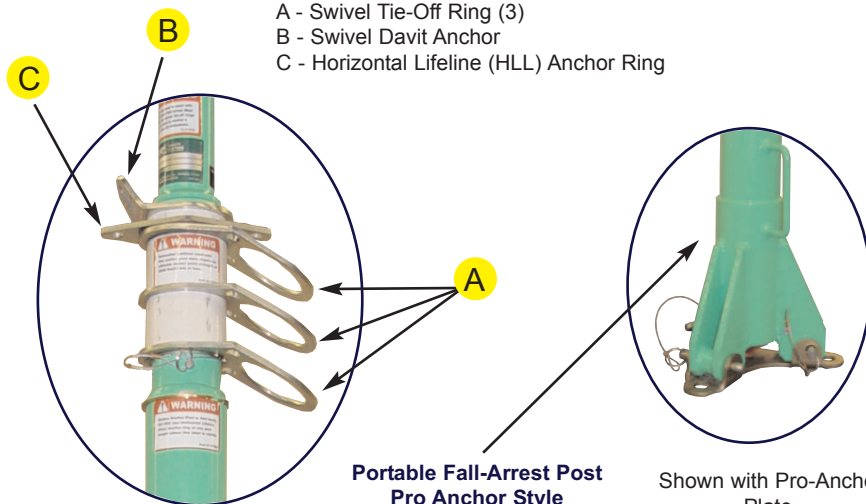
- Increased working height and greater permitted lifeline angle more than double the safe working area compared to previous models.
- Provides 3 independent swivel tie-off points for fall-arrest anchorage*.
- Three stage/ four position telescoping design and aluminum construction for easy transportation and setup.
- Levelling screws allow the system to be plumbed to vertical for proper working stability on inclines up to 15°.
- Horizontal Lifeline (HLL) capabilities using the HLL Anchor Ring. (See Page 11 of Operator's Manual, P# 17451 for more details)
- Collapses into one single piece weighting only 38 lbs (17.5 kg) and fits into a single carrying bag.
- Padded carrying bags are available for transport and storage of components.

Price: Part # Description

1		16691	Portable Fall-Arrest System Anchor Post Uni-Anchor Style
		17565	Carrying Bag, Black

Tie-Off Anchor Components

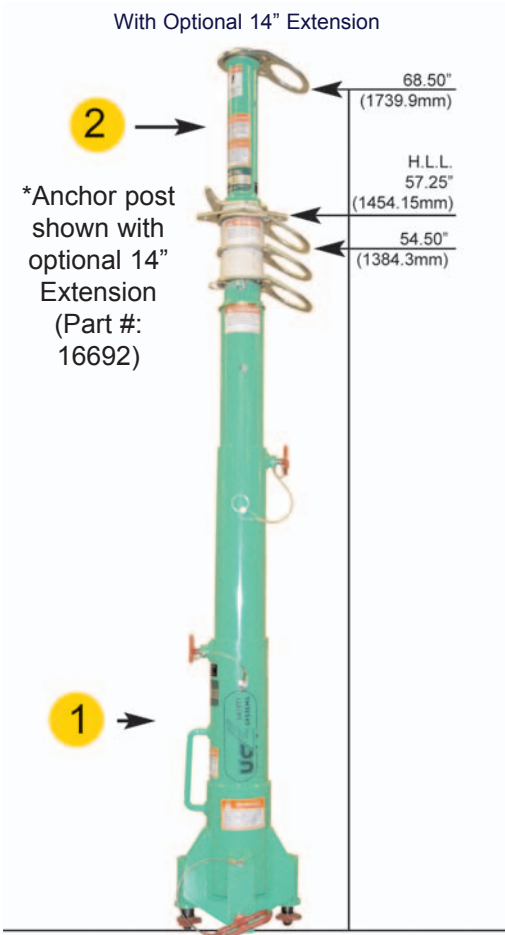
- A - Swivel Tie-Off Ring (3)
- B - Swivel Davit Anchor
- C - Horizontal Lifeline (HLL) Anchor Ring



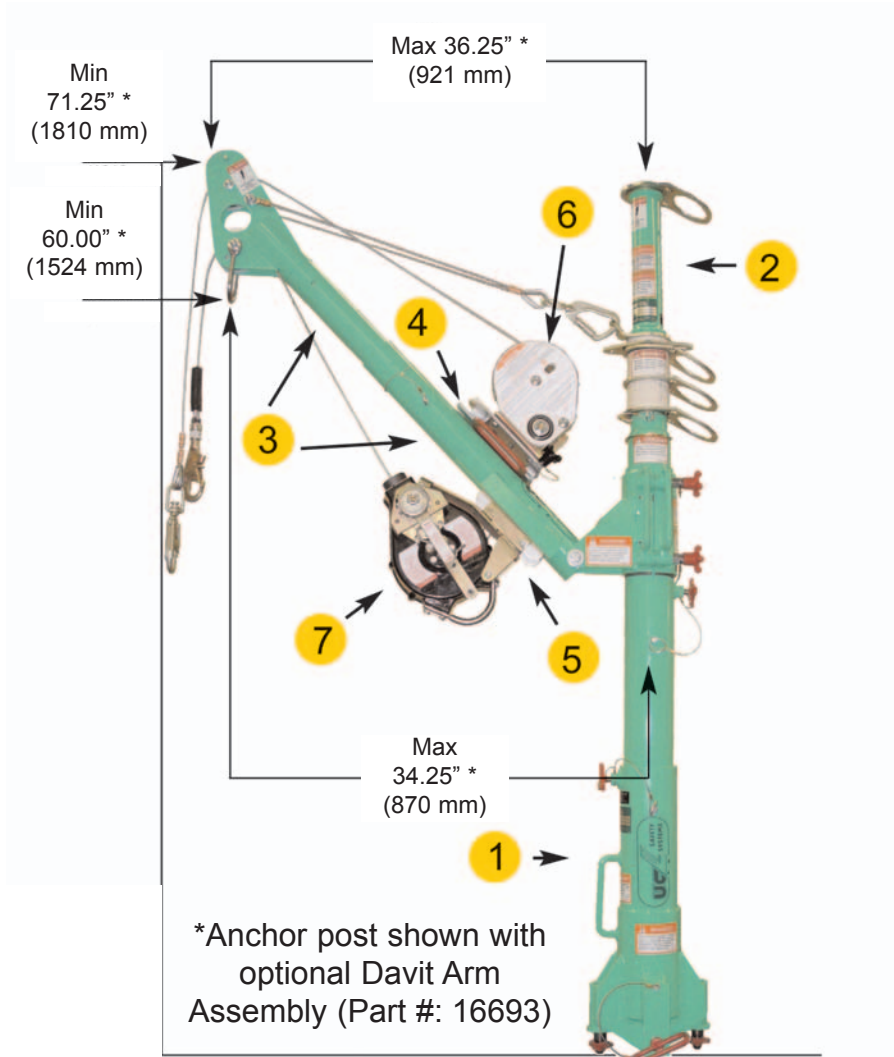
**Portable Fall-Arrest Post
Pro Anchor Style
(Part # 17362)**

Please call for additional details and information about this unit. Bag, Part # 17565.

Shown with Pro-Anchors
Plate,
Part #: 12322,
Sold Separately



*Please see specification sheets for complete dimensions of this system



*Please see specification sheets for complete dimensions of this system

Portable Fall-Arrest System Anchor Post Extension

- Use with Portable Fall-Arrest System Anchor Post (Part # 16691).
- Allows for tie-off of 1 worker at an increased height of 68.50".
- Weighs only 5 lbs (2.2 kg).

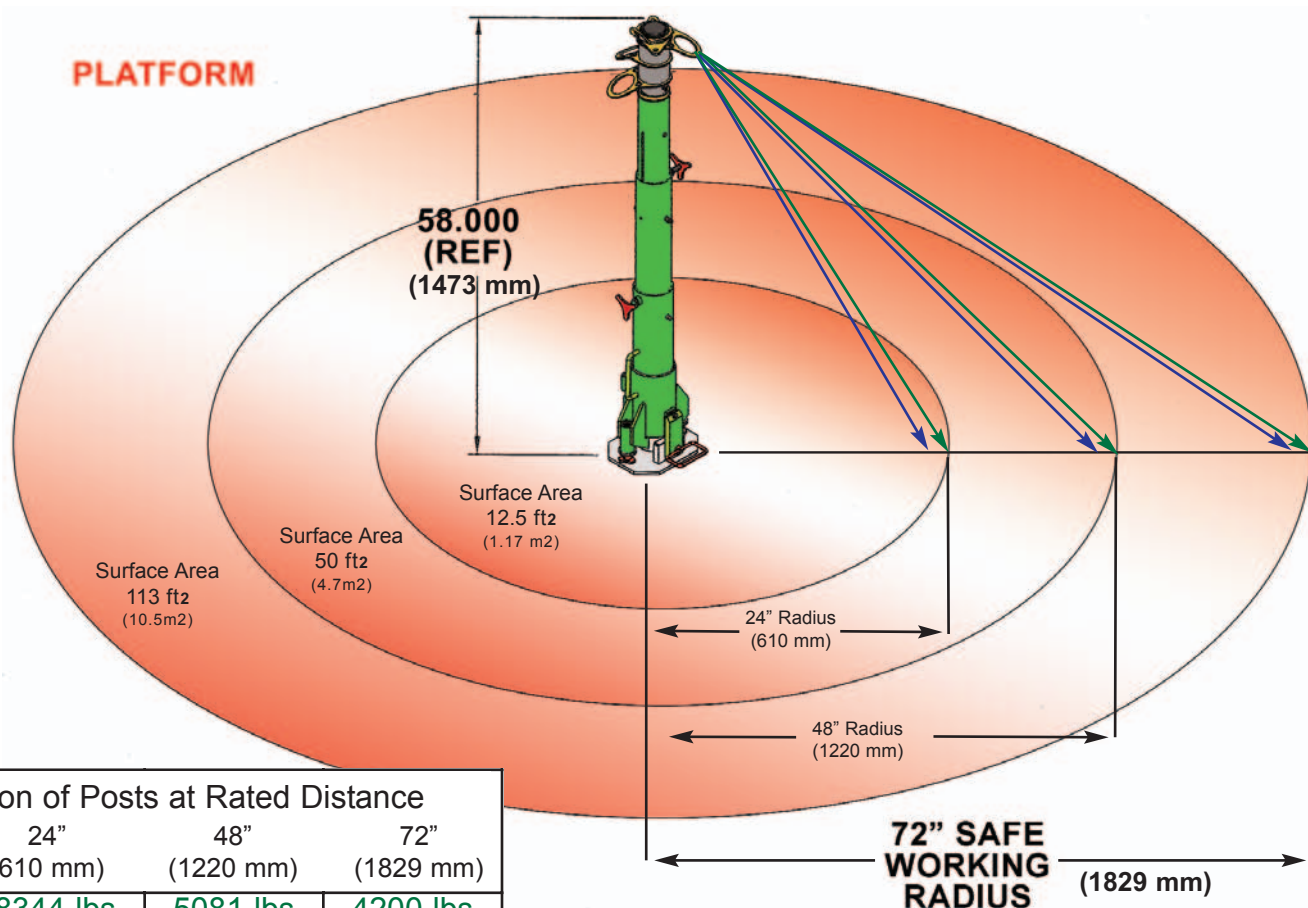
Price:	Part #	Description
	☐ 16692	14" Extension Post
	☐ 17566	Carrying Bag, Black

Portable Fall-Arrest Anchor Post Rescue Davit Arm And Material Handling

- Use with Portable Fall-Arrest System Anchor Post (Part # 16691) and related accessories.
- Quick-attach design assembles easily to address material handling or rescue needs.
- Lightweight aluminum construction for easy transportation and setup.

Price:	Part #	Description
	☐ 16693	Davit Arm
	☐ 10222	Flat Quick Mount
	☐ Call	SRL Bracket
	☐ 17429	Basic Winch (Cable Sold Separately)
	☐ N/A	SRL
	☐ 17565	Bag, Davit Arm Only
	☐ 17569	Bag, Davit Arm w/ Permanently Mounted Winch

See Winches, SRL's & Brackets brochure (Part #: 19398) for full product line.



Comparison of Posts at Rated Distance			
	24" (610 mm)	48" (1220 mm)	72" (1829 mm)
UCL PFAS Post Pt#: 16691	8344 lbs (37.1 kN)	5081 lbs (22.6 kN)	4200 lbs (18.7 kN)
Similar PFAS Post Products	4200 lbs (18.7 kN)	2564 lbs (11.4 kN)	2118 lbs (9.4 kN)

Consider this when comparing various fall arrest structures:

Safe Working Area: The UCL Advanced Portable Fall Arrest System offers a six foot (1829 mm) radius or twelve foot diameter (3658 mm) Safe Working Area. This means that a maximum of three persons can work within six feet of the post within the design parameters set forth by UCL.

Design Criteria: UCL engineers have derived a worst case scenario of two people falling simultaneously when the structure is already supporting a previously fallen third person (who may weigh up to 300 lbs). All people are equipped with a shock absorber of 900 lbs Maximum Arresting Force (M.A.F.). Applying an industry accepted 2:1 design factor to this worst case loading

of 2100 lbs (9.34 kN) or broken down {(900 lbs + 900 lbs + 300 lbs) x 2}, we arrive at 4200 lbs (18.7 kN) as a proof load for the structure. This design factor is laid out in the OSHA regulations for engineered systems.

Compare Design Criteria: THIS IS IMPORTANT! The angle at which a load is applied greatly affects the load the structure can support. The further away from the post that you apply the force, the stronger the post has to be to provide the stated proof load. An anchor post with a 4200 lbs proof load that is tested from six feet away is much **STRONGER** and **SAFER** than one tested from, for example, two feet away. In fact, the *maximum safe working area*

of a fall protection anchor post is normally defined by the distance from the post (or angle) that the proof load test is done at. Since the UCL Portable Fall Arrest System Post is designed to protect 3 workers working within a six foot radius of the post, the worst case proof load test was applied six feet away from the centerline of the post.

Cost Benefit: The larger the safe working area of an anchor post is the fewer anchor posts are needed to protect the working area. You need fewer posts and fewer uni-anchor base locations to cover a given area effectively. This translates into less cost to cover a given area and fewer potential obstructions for workers.

Fourteen Foot Fall-Arrest Post



16996

Fourteen Foot Fall-Arrest Post Uni-Anchor Style: The UCL Safety Systems Portable Fall-Arrest 14' Post mounts using Uni-Anchor plates and extends up to 14' to provide a 1-man-rated fall-arrest anchor point. A carrying bag is available for this unit (part # 17568). Please refer to page 8 for details.

Price	Part #	Description
	16996	Fourteen Foot Fall-Arrest Post Uni-Anchor Style

Available System Heights

Position	Height (inches)	Height (mm)
1	82	2083
2	98	2489
3	116	2946
4	118	2997
5	132	3353
6	134	3404
7	152	3861
8	168	4267

Equipment Davit

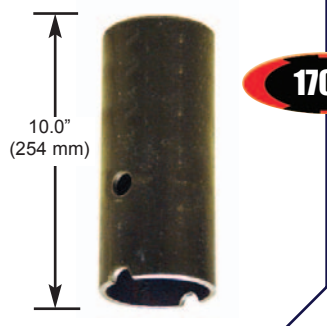


14216

Equipment Davit: The UCL Safety Systems Equipment Davit is a lightweight, 1 piece aluminum structure designed for raising of safety or other equipment to an elevated work area. Requires the installation of a Weld-On Pocket (Part # 17073), Wall Mount (Part # 13919) or Floor Mount Sleeve (Part # 14217). The Equipment Davit may also be used with a ladder hanger (Part # 14202) and ladder sections to gain safe access to the work area.

Price	Part #	Description
	14216	UCL Safety Systems Equipment Davit
	18507	Eight Foot Ladder
	18508	Four Foot Ladder

For more information about ladders, please refer to Category: Hoists, Davits, Bases & Accessories (Pt#:19400).



17073

Weld On Pocket

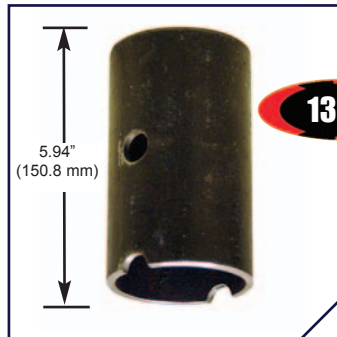
Price:	Part #	Description
	17073	Weld-on Equipment Davit Pocket, First-up Ladder Applications



13919

Wall Mount

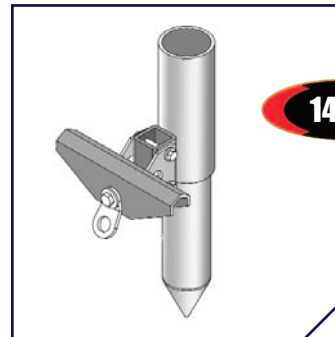
Price:	Part #	Description
	13919	Wall Mount, Bolt On
	16999	Wall Mount, Weld On



13038

Weld On Davit Pocket

Price:	Part #	Description
	13038	Weld On Davit Pocket (Not for first-up ladder applications)



14202

Ladder Hanger

Price:	Part #	Description
	14202	Ladder Hanger

Carrying Bags

Our carrying bags are available to protect and transport your Portable Fall-Arrest System. Constructed from heavy duty materials with rugged zippers, padded side panels and adjustable carrying straps. These bags will protect your investment for many years. Available in black.



Price	Part #	Description
	17565	Portable Fall-Arrest Anchor Post Bag
	17566	14" Extension Post Bag
	17565	Davit Arm w/o Mounted Winch Bag
	17569	Davit Arm w/ Mounted Winch Bag
	17565	PFAP Pro Anchor Style Bag
	17567	Winch & Accessories Bag
	17568	14' Portable Fall Arrest Post Bag
	17567	Uni-Anchor I-Beam Base Bag
	17566	I-Beam Clamp Portable Anchor Bag
	17566	I-Beam Clamp Portable Anchor w/ Tie-Off Bag

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