



# ***SAFEWAZE***

## **021-11026**

### **Tripod with 65' Personnel Winch**



#### **WARNING**

This product is part of a personal fall arrest, work positioning, or rescue system. The manufacturer's instructions must be provided to users of this equipment. The user must follow the manufacturer's instructions for each component of the system. The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. Alterations to this product, misuse of this product, or failure to follow instructions may result in serious injury or death.

#### **IMPORTANT**

Questions regarding the use, care, or suitability of this equipment for your application? Contact Safewaze.

#### **IMPORTANT**

Record initial usage of product on Page 2, and Page 14. Competent Person inspections are required to be documented in the Inspection Log Table on Page 14.

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**User Information**

Date of First Use: \_\_\_\_\_

Serial#: \_\_\_\_\_

Trainer: \_\_\_\_\_

User: \_\_\_\_\_

**Do not throw away these instructions!**

**Read and understand these instructions before using equipment!**

## INTRODUCTION

Thank you for purchasing the Safewaze 021-11026 Confined Space System. This manual must be read and understood in its entirety, and used as part of an employee training program as required by OSHA or any applicable state agency.

This manual and any other instructional material must be available to the user of the equipment. The user must understand how to safely and effectively use the 021-11026, and all fall protection equipment used in conjunction with the 021-11026.

The 021-11026 Confined Space System is designed primarily for workers entering and working in confined space environments. OSHA defines confined space as any space with limited openings for entry and exit, is large enough for a worker to enter bodily and perform work, and is not designed for continuous worker occupancy.

Confined spaces include but are not limited to, utility manholes, silos, underground utility vaults, storage containers, pits, and pipelines.

The 021-11026 Confined Space Tripod serves as the support element for entry/egress into confined spaces, and also the rescue/evacuation of workers if necessary. It can also provide anchorage for fall protection, work positioning, and personnel riding systems.

## APPLICABLE SAFETY STANDARDS

When used according to instructions, this product meets or exceeds ANSI Z117.1-2016, Z359.14-2014, A10.32-2012, OSHA 1926.502, 1910.140, and 1926.21. Applicable standards and regulations depend on the type of work being done, and also might include state-specific regulations. Refer to local, state, and federal (OSHA) requirements for additional information concerning the governing of occupational safety regarding Personal Fall Arrest Systems (PFAS).

## Worker Classifications



Understand the definitions of those who work in proximity of, or may be exposed to fall hazards.

**Qualified Person:** A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning and reviewing the conformity of fall protection and rescue systems.

**Competent Person:** A highly trained and experienced person who is **assigned by the employer** to be responsible for all elements of a fall safety program, including, but not limited to, its regulation, management, and application. A person who is proficient in identifying existing and predictable hazards, and who has the authority to stop work in order to eliminate hazards.

**Authorized Person:** A person who is assigned by their employer to work around or be subject to potential or existing fall hazards.

**It is the responsibility of a Qualified or Competent person to supervise the job site and ensure safety regulations are complied with.**

## Product Specific Applications

**Rescue / Confined Space:** The 021-11026 Confined Space System may be used in both Confined Space and Rescue applications. Rescue systems function to safely remove a worker from a confined space environment or after exposed to a fall. There are various configurations of rescue systems depending on the type of rescue required. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. No free fall is permitted. Applicable D-rings are dorsal, chest, and shoulder.

## Limitations

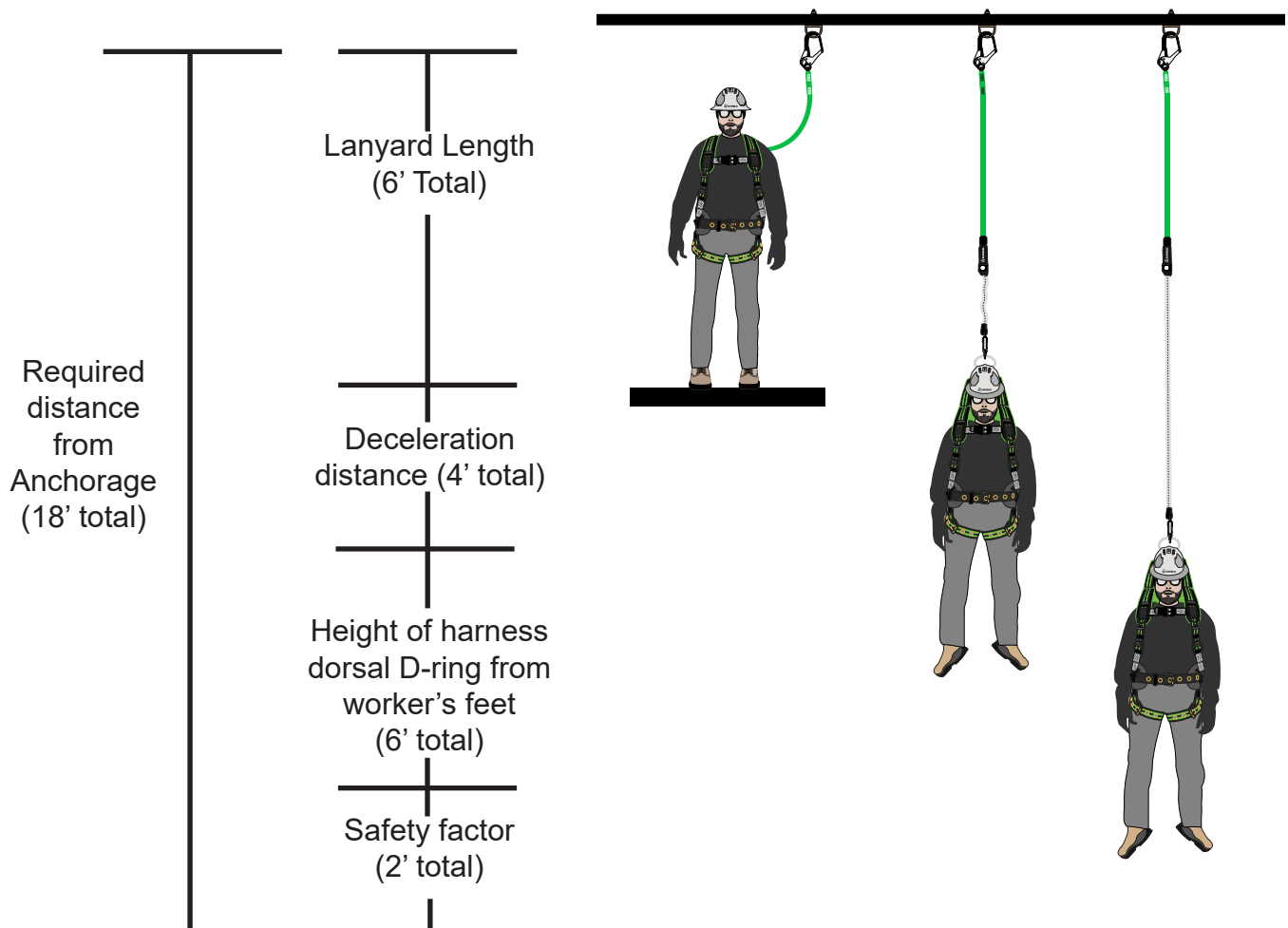
**Fall Clearance:** There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 2' safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors. (See Figure 1)

FIGURE 1

Fall Clearance Diagram

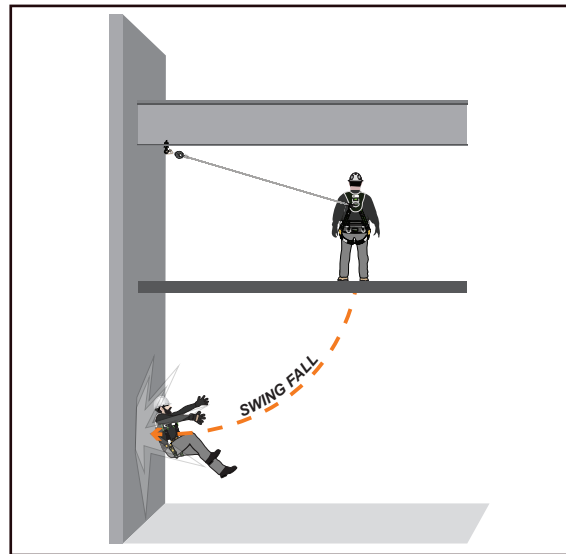
\*\*\*Diagram shown is an example fall clearance calculation ONLY.

For all applications: worker weight capacity range (including all clothing, tools, and equipment) is 130-310 lbs



**Swing Falls:** Prior to installation or use, make considerations for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall. (See Figure 2)

**FIGURE 2**



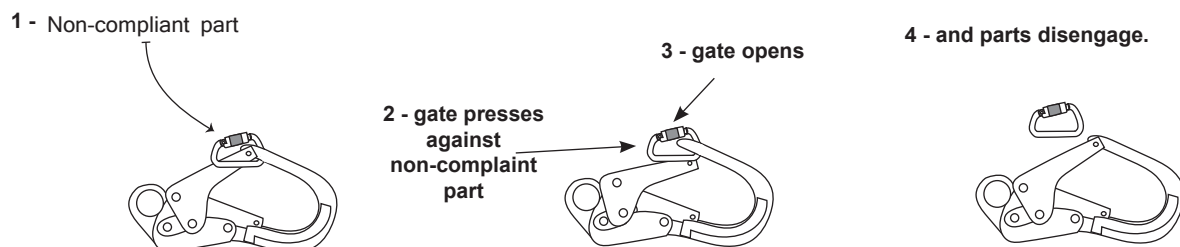
## COMPATIBILITY OF CONNECTORS

Connectors are compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22.2 kN). Connectors must be compatible with the anchorage or other system components (see Figure 4). Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (see Figure 3). Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required by ANSI Z359 and OSHA guidelines. Contact Safewaze if you have any questions about compatibility.



**NOTE:** SOME SPECIALITY CONNECTORS HAVE ADDITIONAL REQUIREMENTS. CONTACT Safewaze WITH QUESTIONS.

**FIGURE 3 - UNINTENTIONAL DISENGAGEMENT**

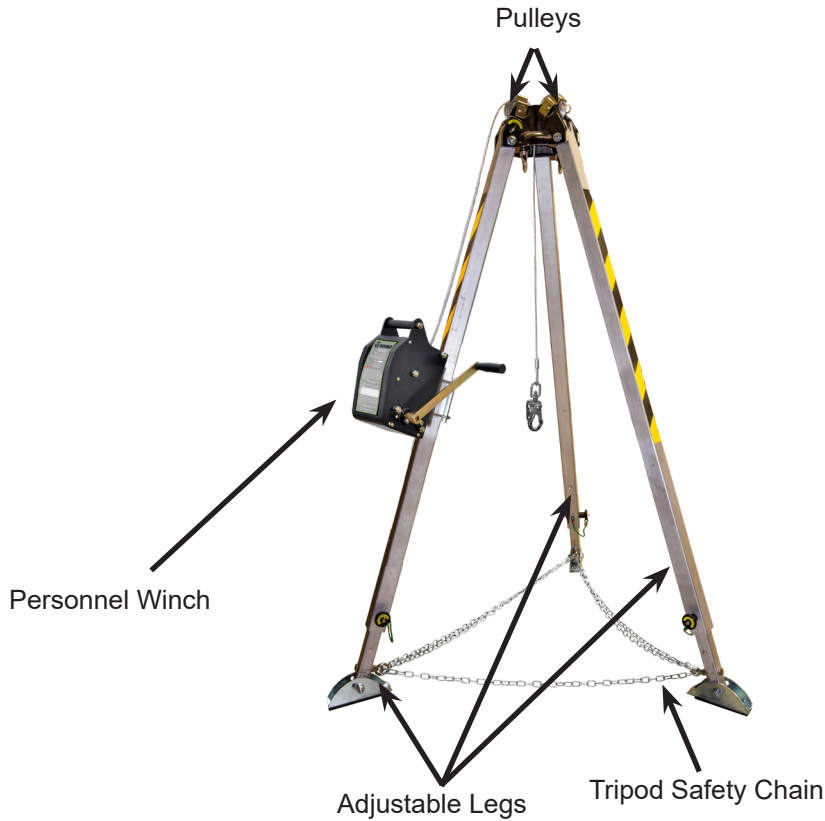


Using a connector that is undersized or irregular in shape (1) to connect a snap hook or carabiner could allow the connector to force open the gate of the snap hook or carabiner. When force is applied, the gate of the hook or carabiner presses against the non-compliant part (2) and forces open the gate (3). This allows the snap hook or carabiner to disengage (4) from the connection point.



Components and Specifications

**021-11026  
Tripod with 65' Personnel Winch  
and 65' 3-Way**



Tripod

Interior Headroom	81 in (2057.4 mm)
Distance Between Feet	61 in (1549.4 mm)
Max Diameter Hole	44 in (1117.6 mm)
Working Load	350 lbs (158.76 kg)
Overall Height	84 in (2133.6 mm)
Storage Length	65 in (1651 mm)
Outside Head Diameter	17 in (431.8 mm)
Leg Adjustment Increments	6 in (152.4 mm)
Weight	50 lbs (22.68 kg)

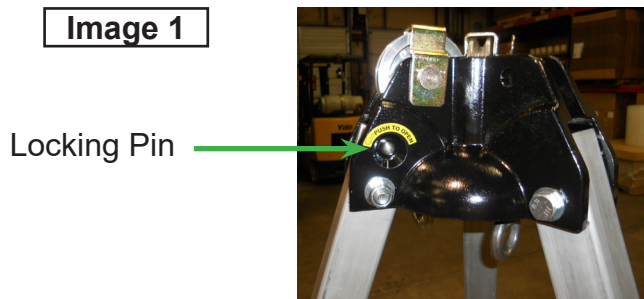
Personnel Winch

Length/Type	65 ft. (19.81 m) Galvanized Steel
Weight	35.71 lbs (16.2 kg)
Lifting Capacity	310 lbs (140.6 kg)
Size	17.2 in x 11 in x 11 in (44 cm x 28 cm x 28 cm)
Handle Length	14 in (35.6 cm)

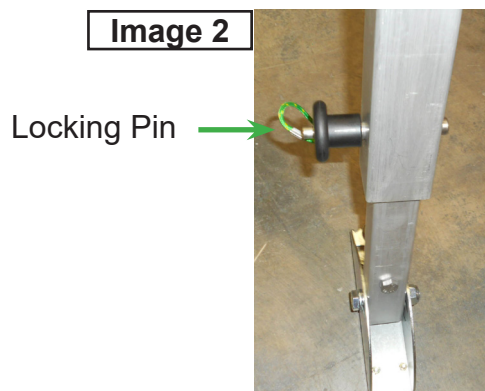
## Installation and Use

**Step 1:** Remove tripod from tripod storage/carrying bag.

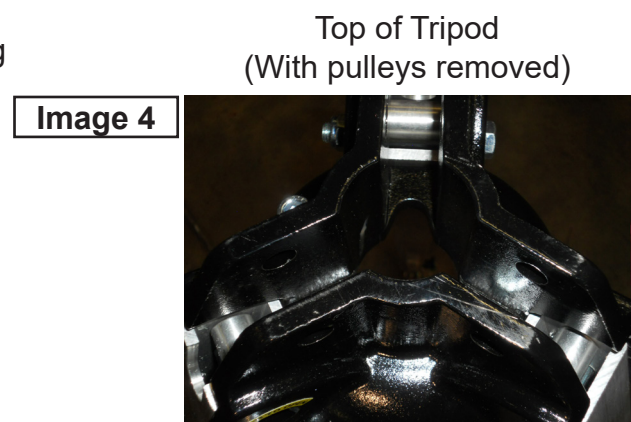
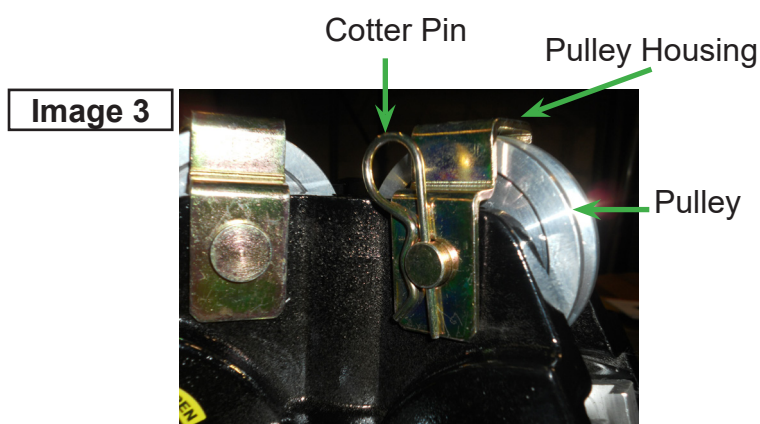
**Step 2:** Tripod must be mounted on a stable level surface for each leg when positioned over opening, with a Maximum Installation Diameter of 44 inches. Lift tripod to upright position. Press locking pin above each leg in the tripod head and pull leg away from center point until locking pin locks into place. Repeat with the remaining legs. (See Image 1)



**Step 3:** Remove Locking Pins above foot of tripod legs and extend legs to desired height. Re-insert locking pin at desired height, (See Image 2) and connect safety chains to bottom of tripod legs. Remove excess slack in the safety chain by adjusting the position of the twist link.



**Step 4:** This step describes actions to be taken if attaching / installing a Safewaze 3-Way Retractable, Material Winch, or Personnel Winch onto the tripod via mounting to one of the tripod legs. This step must be performed in order to ensure proper routing of component cables through the top of the tripod. Remove Cotter Pins, Pulley Housing, and pulleys from the top of tripod. (See Image 3 & 4)





**Step 5:** Install the Personnel Winch onto the tripod by placing the winch onto the pre-installed fixture plate of the tripod. Seat the hook of the Personnel Winch bracket plate onto the cross bar of the tripod bracket. (See Images 5 & 6)

**Image 5**



Personnel Winch Bracket Plate

Personnel Winch

Personnel Winch Bracket Plate Hook

Tripod Fixture Plate

Cross Bar of the Tripod Bracket

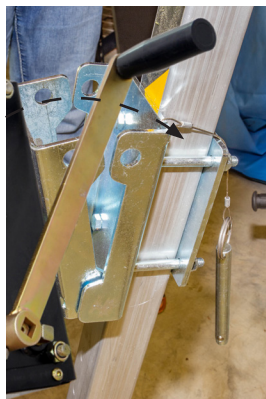
**Image 6**



Hook of Personnel Winch Bracket Plate seated onto crossbar of Tripod Bracket

**Step 6:** Rotate the Personnel winch assembly forward to allow for installation of the locking pin into the pre-drilled holes in the winch bracket plate and the tripod bracket. (See Images 7 & 8)

**Image 7**



Rotate Forward

**Image 8**



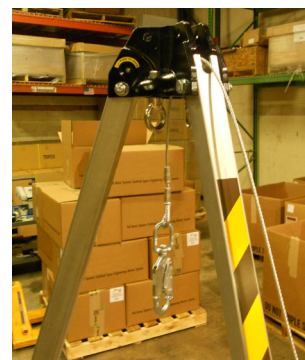
Insert Locking Pin

**Step 7:** Rotate the handle of the Personnel Winch counter-clock wise to release the steel cable. Continue to release the cable until enough length allows for the snap hook to be dropped down through the top of the tripod. (See Image 9 & 10)

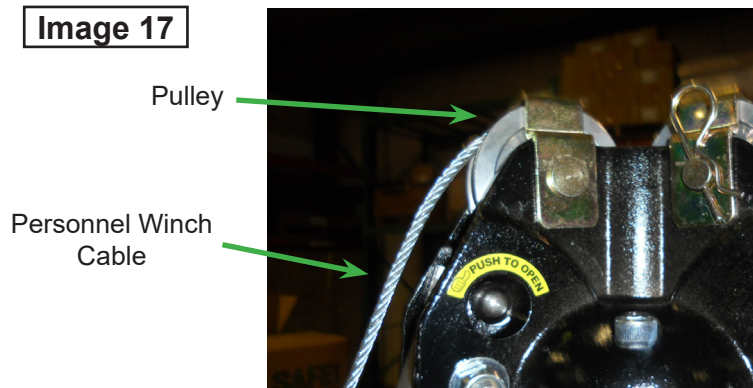
**Image 9**



**Image 10**



**Step 11:** Re-install the Pulleys, Pulley Housings, and Cotter Pins in the top of the Tripod, ensuring Personnel Winch cable is routed over, and properly seated on the pulley. (See Image 17)



021-11026 Now Ready for Use



## Operation

### 019-11007 Personnel Winch

Operation of the 019-11007 Personnel Winch to lower or raise personnel into the work area is simply accomplished by use of the crank handle on the unit. Clockwise operation of the crank handle raises the personnel, and counterclockwise operation lowers the personnel. The Safewaze Personnel Winch has a built in internal brake that will not allow the load to slip when cranking in either direction is stopped.

## Inspection

USER MUST KEEP INSTRUCTIONS AVAILABLE FOR REFERENCE. Record Date of First Use.

Prior to each use, inspect the for possible deficiencies including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, and missing or illegible labels. User MUST IMMEDIATELY remove the 021-11026 from service if defects or damage are found, or if exposed to forces of fall arrest.

Inspect work area to ensure that location is free of any damage including, but not limited to, debris, cracking, rot, decay, structural deterioration, rust, and free from any hazardous materials. User must confirm that work area to be utilized will support the application specific loads as referenced within this instruction manual. Work area MUST be stable.

At least annually, a Competent Person other than the user must inspect the 021-11026 Confined Space System.

Competent Person inspections must be recorded in the inspection table included in this manual as well as the inspection table labels on each product individually. The Competent Person must place his/her initials in the block which corresponds with the month and year that the inspection is performed. All individual labels on equipment will be initialed in the same manner.

While conducting inspections, the Competent Person must consider all applications and hazards that the equipment may have been subjected to while in use.

Prior to each use, the user must inspect and verify that each individual component of the 021-11026 system is safe for use.

### **019-11000 Aluminum Tripod inspection:**

1. Inspect for bent or deformed tripod legs.
2. Inspect that all locking pins for tripod legs are present and functional.
3. Inspect tripod pulley assembly for any missing or damaged components including, pulleys, cotter pins, and pulley housings.
4. Ensure that tripod feet are clear of any debris and undamaged so that they can pivot freely.
5. Inspect tripod chain for any kinks, broken links, corrosion, chemical exposure or any other damage.
6. Inspect entire unit for any bends, cracks, corrosion, chemical exposure, or any factor that may effect integrity of the tripod unit.

## 019-11007 Personnel Winch inspection:

1. Crank handle must move freely, and must not interfere with any other component. Locking mechanism must operate properly with no slippage of cable.
2. The cable from the unit should pay out and retract smoothly when rotating the handle in the corresponding clockwise or counterclockwise direction.
3. Inspect entire length of winch cable for any damage including, but not limited to, fraying, crushing, bird caging, chemical exposure, heat/welding spatter, and kinking. User should always wear gloves when inspecting winch cable to prevent injury in the event of cable damage.

## Safety Information



### WARNING

Failure to understand and comply with safety regulations may result in serious injury or death. Regulations included herein are not all-inclusive, are for reference only, and are not intended to replace a Competent Person's judgement or knowledge of federal or state standards.

Do not alter or misuse equipment.

Workplace conditions, including, but not limited to, flame, corrosive chemicals, electrical shock, sharp objects, machinery, abrasive substances, weather conditions, and uneven surfaces, must be assessed by a Competent Person before fall protection equipment is selected.

The inspection of the workplace must anticipate where workers will be performing their duties, the routes they will take to reach their work, and the potential and existing fall hazards they may be exposed to. Fall protection equipment must be chosen by a Competent Person. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased in new and unused condition.

Fall protection systems must be selected and installed under the supervision of a Competent Person, and used in a compliant manner. Fall protection systems must be designed in a manner compliant with all federal, state, and safety regulations. Forces applied to anchors must be calculated by a Competent Person.

Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration. Snap hooks, carabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and carabiners must be self-locking and self-closing, and must never be connected to each other.

A pre-planned rescue procedure is required in the event a fall occurs. The rescue plan must be project-specific. The rescue plan must allow for employees to rescue themselves, or provide an alternative means for their prompt rescue. Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons to correctly erect, inspect, disassemble, maintain, store, and use equipment must be provided by a Competent Person. Training must include the ability to recognize fall hazards, minimize the likelihood of fall hazards, and the correct use of personal fall arrest systems.

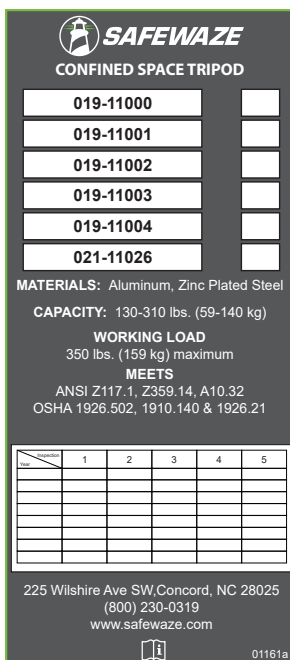
NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

Equipment subjected to forces of fall arrest must immediately be removed from use.

Age, fitness, and health conditions can seriously affect the worker should a fall occur. Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform set-up of equipment. Pregnant women and minors must not use this equipment.

Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the effects of suspension trauma.

## Labels



**SAFEWAZE**  
**CONFINED SPACE TRIPOD**

019-11000	
019-11001	
019-11002	
019-11003	
019-11004	
021-11026	

**MATERIALS:** Aluminum, Zinc Plated Steel  
**CAPACITY:** 130-310 lbs. (59-140 kg)  
**WORKING LOAD**  
 350 lbs. (159 kg) maximum  
**MEETS**  
 ANSI Z117.1, Z359.14, A10.32  
 OSHA 1926.502, 1910.140 & 1926.21

Inspected	1	2	3	4	5

225 Wilshire Ave SW, Concord, NC 28025  
 (800) 230-0319  
 www.safewaze.com

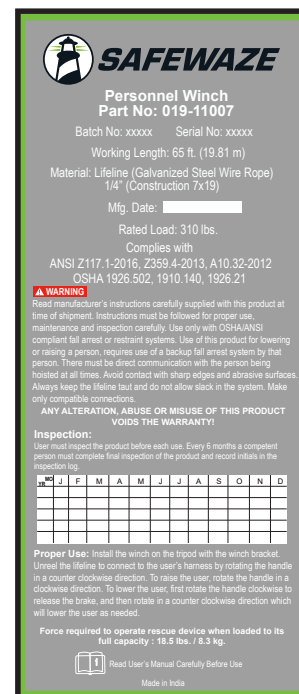
01161a

**WARNING:** User must read and understand all instructions provided with this product at time of shipment prior to use. Misuse of this product or failure to follow instructions may result in serious injury or death. Make only compatible connections.

**USE:** Tripod must be used on generally level and solid footing. Tripod leg chains should be adjusted to remove slack to avoid tripping hazard. Load must be maintained inside chain perimeter to prevent tipping. Do not allow components of any fall arrest, rescue, or personal suspension system to contact sharp edges or abrasive surfaces during use. Avoid chemical, thermal, and/or electrical hazards.

**INSPECTION:** Tripod must be inspected prior to each use. This product must be inspected by a competent person at least every 6 months or more frequently in harsh environments. Do not use if inspection reveals damaged components or defective condition

01161b



**SAFEWAZE**  
**Personnel Winch**  
**Part No: 019-11007**  
 Batch No: xxxxx Serial No: xxxxx  
 Working Length: 65 ft. (19.81 m)  
 Material: Lifeline (Galvanized Steel Wire Rope)  
 1/4" (Construction 7x19)  
 Mfg. Date: \_\_\_\_\_  
 Rated Load: 310 lbs.  
 Complies with  
 ANSI Z117.1-2016, Z359.4-2013, A10.32-2012  
 OSHA 1926.502, 1910.140, 1926.21

**WARNING**  
 Read manufacturer's instructions carefully supplied with this product at time of shipment. Instructions must be followed for proper use, maintenance and inspection carefully. Use only with OSHA/ANSI compliant fall arrest or restraint systems. Use of this product for lowering or raising a person, requires use of a backup fall arrest system by that person. There must be direct communication with the person being hoisted at all times. Avoid contact with sharp edges and abrasive surfaces. Always keep the lifeline taut and do not allow slack in the system. Make only compatible connections.

**ANY ALTERATION, ABUSE OR MISUSE OF THIS PRODUCT  
 VOID THE WARRANTY!**

**Inspection:**  
 User must inspect the product before each use. Every 6 months a competent person must complete final inspection of the product and record initials in the inspection log.

Inspected	1	2	3	4	5

**Proper Use:** Install the winch on the tripod with the winch bracket. Unset the lifeline to connect to the user's harness by rotating the handle in a counter clockwise direction. To raise the user, rotate the handle in a clockwise direction. To lower the user, first rotate the handle clockwise to release the brake, and then rotate in a counter clockwise direction which will lower the user as needed.

Force required to operate rescue device when loaded to its full capacity - 18.5 lbs. / 8.3 kg.

Read User's Manual Carefully Before Use  
 Made in India





***SAFEWAZE***

Safewaze  
225 Wilshire Ave SW  
Concord, NC 28025

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EMAIL: [info@Safewaze.com](mailto:info@Safewaze.com)

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