

Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons to correctly erect, disassemble, inspect, 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.

Maintenance of equipment must be done according to manufacturer's instructions. Equipment instructions must be retained for reference.

Prior to EACH use, all equipment in a fall protection system must be inspected for any potential or existing deficiencies that may result in its failure or reduced functionality. IMMEDIATELY remove equipment from service if any deficiencies are found.

Equipment must be inspected by a Competent Person at least every six months. These inspections must be documented in equipment instruction manual and on equipment inspection grid label.

Equipment must be inspected for defects, including, but not limited to, the absence of required labels or marking, improper form/fit/function, evidence of cracks, sharp edges, deformation, corrosion, excessive heating, alteration, excessive wear, fraying, knotting, abrasion, and absence of parts.

Equipment that fails inspection in any way must immediately be removed from use, or repaired by an entity approved by the manufacturer.

No on-site repair of equipment unless explicitly permitted by Viraj Fall Protection.

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

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.

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.

Allowable individual worker weight limit (including all equipment), unless explicitly stated otherwise, is 60-140kgs (130-310 lbs.)

Maintenance, Cleaning, and Storage

Repairs to Rescue Winches can only be made by a Viraj Fall Protection representative or an entity authorized by Viraj. Contact Viraj for all maintenance and repair needs at: +91 9792025888. If a Rescue Winch fails inspection in any way, immediately remove it from service, and contact Viraj to inquire about its return or repair.

Cleaning after use is important for maintaining the safety and longevity of Rescue Winches. Remove all dirt, corrosives, and contaminants from Rescue Winches before and after each use. If a Rescue Winch cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Rescue Winches with corrosive substances.

When not in use, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

Inspection

KEEP INSTRUCTIONS AVAILABLE FOR REFERENCE. Record date of first use.

Prior to EACH use, inspect Rescue Winch for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, fraying, bird-caging, and missing or illegible labels. IMMEDIATELY remove Rescue Winch from service if defects or damage are found, or if exposed to forces of fall arrest. Test retract/release functionality; when facing the Winch Handle, turn counter-clockwise to release, and turn clockwise to retract. Steel Cable must completely retract/release with minimum resistance and without jamming.

NEVER wrap cable backwards on spool. When at rest, brakes must not allow cable to move. ALWAYS wear gloves when inspecting cable.

Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials. Ensure that selected work area will support the application-specific minimum loads set forth in this instruction manual. Work area MUST be stable.

At least every 6 months, a Competent Person other than the user must inspect Rescue Winches. **Competent Person inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label. The Competent Person must sign their initials in the box corresponding to the month and year the inspection took place.**

During inspection, consider all applications and hazards Rescue Winches have been subjected to.

Product Specific Applications



Use of equipment in unintended applications may result in serious injury or death. Maximum 1 attachment per connection point.

For all applications, the Rescue Winch MUST be used in combination with a tripod deemed compatible by a Competent Person.

Front Labels

Side Labels

VIRAJ
=VSPL GROUP=
www.vspgroup.com

RESCUE WINCH

REF : SF-WN-801
NORM : EN 1496:2006
CLASS : A
YEAR : 2017
SERIAL: _____

Compliant with all OSHA 1926 Subpart M regulations.



Worker weight capacity (including all equipment): 60-140 kgs. (130-310 lbs.)
Cable material: G1 Wire; Diameter: 3/16"

Required force when at maximum capacity: 14 kgs. (30 lbs.)
Avoid contact with sharp and abrasive edges and surfaces.

Winch operation: Must be used with compatible tripod, pulley, and carabiner. Facing winch, rotate counter-clockwise to release cable, rotate clockwise to retract.

TESTED LOAD : 1350 KGF
RATED LOAD : 135 KGF
WORKING LENGTH : 20.0 MS

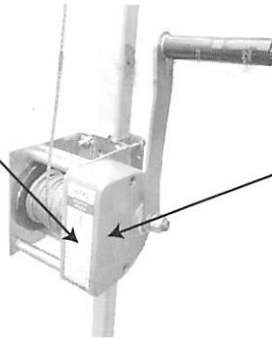
READ USER'S MANUAL CAREFULLY BEFORE USE

MADE IN INDIA

FOR RESCUE PURPOSE ONLY

Front Label



Side Label

VIRAJ
=VSPL GROUP=
www.vspgroup.com

RESCUE WINCH

INSPECTION GRID

YR	J	F	M	A	M	J	J	A	S	O	N	D
2017					✓							
20												
20												
20												

Date of First Use: _____
Product lifetime is indefinite as long as equipment passes pre-use and Competent Person inspections.

User must inspect prior to EACH use. Competent Person must complete formal inspection EVERY month. Competent Person to inspect and initial.

If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE

DO NOT REMOVE LABELS

For reference only. Background to be white.
Date of manufacture to be: mo/year.

Inspection Log

User must inspect prior to EACH use. Competent Person other than user must complete formal inspection at least every 6 months. Competent Person to inspect and initial.

Date of first use: _____. Product lifetime is indefinite as long as it passes pre-use and Competent Person inspections.

This inspection log must be specific to one Rescue Winch. Separate inspection logs must be used for each Rescue Winch. All inspection records must be made visible and available to all users at all times.

	J	F	M	A	M	J	J	A	S	O	N	D
YR 2017					✓							
YR												
YR												
YR												

If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE.

Introduction

Thank you for purchasing a Viraj Fall Protection Rescue Winch. 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 and any other included instructions must be made available to the user of the equipment. The user must understand how to safety and effectively use the Rescue Winch, and all fall safety equipment used in combination with the Rescue Winch.

User Information	
Date of first use:	_____
Serial #:	_____
Trainer:	_____
User:	_____

Applicable Safety Standards

When used according to instruction specifications, this product meets or exceeds all applicable OSHA 1926 Subpart M standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state regulations if applicable. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

Worker Classifications

CAUTION	Understand the following definitions of those who work near or who 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 fall 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 all applicable safety regulations are complied with.

Safety Information

WARNING	The failure to understand and comply with safety regulations may result in serious injury or death. The 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 equipment and 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 analysis 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 new and in an 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.

Unless explicitly stated otherwise, the maximum allowable free fall distance for lanyards must not exceed 1.80mtr. (6ft). No free fall allowed for non-LE SRLs. SRLs must arrest falls within 1.38 mtr. (54 inch).

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.

A pre-planned rescue procedure in the case of a fall is required. 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.

Instruction Manual

Product Name: Rescue Winch

Product Code: SF-WN-801

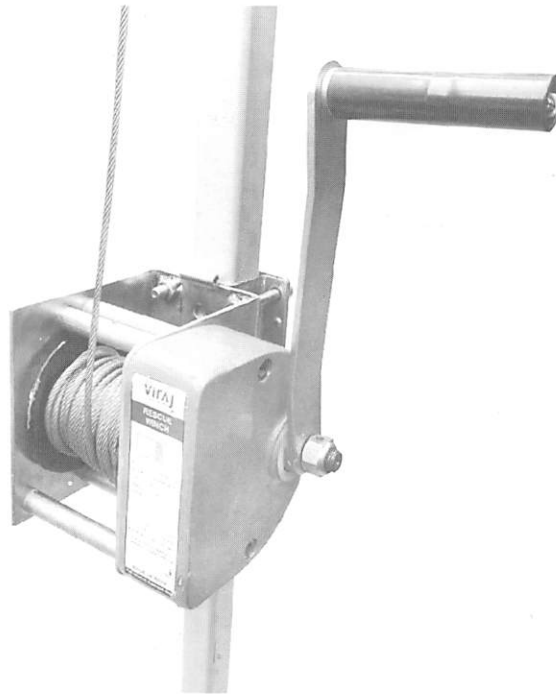


Table of Contents

Introduction	1
Applicable Safety Standards	2
Worker Classifications	2
Safety Information	2-4
Maintenance, Cleaning, and Storage	4
Inspection	5
Product Specific Applications	5
Limitations	6-7
Components and Specifications	7
Installation and Use	8
Labels	9
Inspection Log	10
Notes	10

**Do not throw away these instructions!
Read and understand these instructions before using equipment!**

Material Hoist: The Rescue Winch may be used to lift and lower materials and equipment. A Competent Person MUST determine the safe and proper methods for equipment handling.

Rescue/Confined Space: The Rescue Winch may be used as a personnel hoist in Rescue/Confined Space applications. Rescue systems function to safely recover a worker from a confined location or after exposed to a fall. There are various configurations of Rescue systems depending on the type of rescue. Structure must withstand loads applied in the directions permitted by the system of at least 1361 kgs (3,000 pounds). No free fall is permitted. Applicable D-rings: Dorsal, chest, shoulder.

For use in Rescue/Confined Space applications, the Rescue Winch MUST be used in combination with a complete Personal Fall Arrest System (PFAS) deemed compatible by a Competent person.

MAXIMUM weight capacity (including all clothing, tools, and equipment) is 141 kgs. (310 pounds). Worker capacity range is 59 kgs. - 141 kgs. (130-310 pounds).

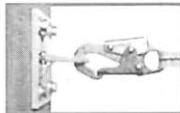
Limitations

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 0.95 mtr. (3ft) safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors. Diagram shown is an example fall clearance calculation ONLY.

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.

Compatibility: When making connections with Rescue Winches, eliminate all possibility of roll-out. Roll-out occurs when interface between a hook and the attachment point causes the hook gate to unintentionally open and release. All connections must be selected and deemed compatible with Rescue Winches by a Competent Person. All connector gates must be self-closing and self-locking, and withstand minimum loads of 1633 kgs. (3,600 lbs). See the following for examples of compatible/incompatible connections:

Connector closed and locked to D-ring. OK.

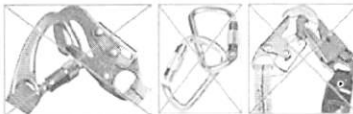


Connector to integral lanyard. NO.

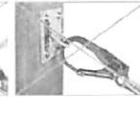


Connector directly to horizontal lifeline. NO.

Two or more snap hooks or carabiners connected to each other. NO.



Connector directly to webbing. NO.



Incompatible or irregular application, which may increase risk of roll-out. NO.

Two connectors to same D-ring. NO.



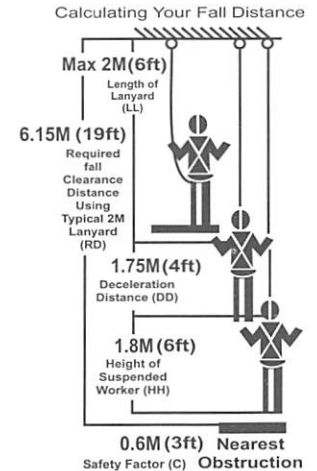
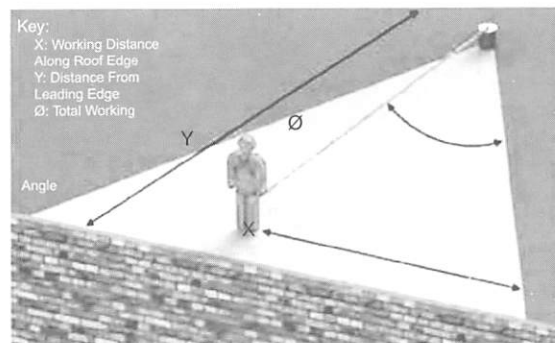
Application that places load on gate. NO.

Correct Anchorage Positioning:

to reduce risk of swing falls and improper side loading. ALWAYS adhere to information specified by chart. This chart details allowable working zones required

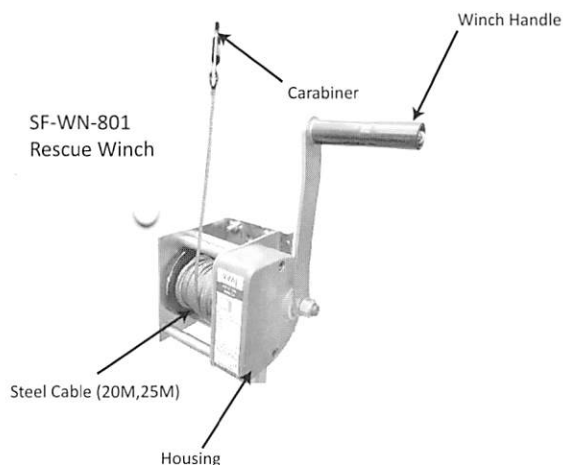
Anchor Distance From Leading Edge (Y)	Working Distance Along Roof Edge (Either Direction) (X)	Working Angle From Perpendicular (θ)
6'	8'	53°
10'	9' - 9"	45°
15'	11' - 7"	38°
20'	13' - 3"	33°
25'	14' - 6"	30°
30'	16'	28°
35'	17' - 2"	26°
40'	18' - 3"	24°
45'	19' - 4"	23°
50'	19' - 10"	21°
55'	21' - 4"	21°
60'	22' - 3"	21°

For example, if the anchorage connector is 6 feet from the leading edge (Y), the working distance (X) is 8' in each direction from the perpendicular, which translates to a 53° working angle.



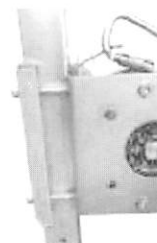
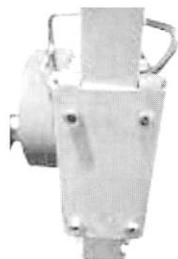
Components and Specifications

- SF-TP-800
- SF-TP-800A
- Tripod Adapter Bracket
(sold separately)

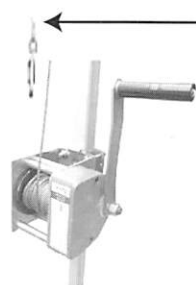


Installation and Use

1. Away from all fall hazards, set-up compatible tripod according to tripod manufacturer's instructions.
2. Ensure selected installation location for corresponding tripod is free of any debris, loose materials, and slippery surfaces. Tripod installation location must meet all criteria specified in tripod manufacturer's instructions.
3. Ensure all PFAS equipment is selected and deemed compatible with the Rescue Winch by a Competent Person.
4. Total length of Rescue Winch is 20M (65ft). If applicable work area is not within reach of fully deployed Steel Cable, the Rescue Winch MUST NOT be used.
5. Fully install Rescue Winch onto compatible Tripod:
 - a) At selected height on tripod, insert (4) provided bolts through (4) holes in Tripod Adapter Bracket and through (4) holes in Rescue Winch.
 - b) Tighten all bolts with Allen wrench until snug.
 - c) Ensure Rescue Winch is fully secured to tripod and that there is no risk of disengagement or slipping.



6. Release sufficient amount of GI/Steel Cable, and thread cable over tripod pulley and through center of tripod according to tripod manufacturer's instructions. Carabiner must be safely within reach to attach to PFAS or materials. Maximum force required to operate Rescue Winch is 14 kgs. (30 lbs).

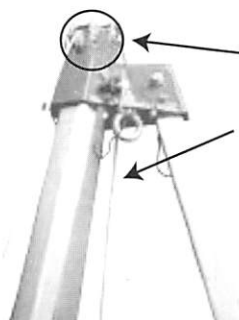


Facing Winch:

To release GI/Steel Cable, rotate Winch Handle counter-clockwise.



To retract GI/Steel Cable, rotate Winch Handle clockwise.



GI/Steel Cable threaded over pulley, inserted through top of tripod, and positioned over center of confined space entrance according to tripod instructions and judgement of Competent Person.

