



## TTWG-500 TUF-TUG WIRE ROPE GRABS

(ANSI A14.3, CSA Z259.2.1 & BSEN 353.1)

**WARNING!** YOU MUST READ AND FULLY UNDERSTAND OR HAVE THESE INSTRUCTIONS EXPLAINED TO YOU BEFORE USING THIS EQUIPMENT. FAILURE TO OBSERVE THE LIMITATIONS, CAUTIONS AND WARNINGS IN THESE INSTRUCTIONS COULD RESULT IN SEVERE PERSONAL INJURY.

Equipment users must be fully trained in and conversant with all regulatory requirements applicable to the workplace in which the fall protection equipment is to be used. If in doubt contact your local Safety office for clarification. These instructions are not a substitute for a formal climbing and Fall Protection Training Program. Such training should include information about local circumstances, rules and regulations applicable to the work situation, a hands on opportunity to learn how to wear and attach equipment properly, instructions about adequate anchor points and the proper techniques for securing and connecting lanyards, drop lines or lifelines, and guidance and demonstration on how to inspect and maintain the equipment. End user should have access to these instructions for reference.

**SYSTEM REQUIREMENTS:** TUF-TUG Wire Rope Grabs are designed to meet the performance requirements of ANSI A14.3, CSA Z259.2.1 & BSEN 353.1 for personnel fall arrest on fixed ladders. It is intended for use on  $\phi$  3/8" solid core cable system with an anchorage capable of maintaining a minimum of 5000 lbs. tensile load. (NOTE: Specials are provided for other size wire rope and will be specifically identified on the housing of the mechanism. IE:  $\phi$ 1/4",  $\phi$ 5/16" and/or  $\phi$ 1/2"). It is recommended that the TTWG-500 be attached to a full body harness with a front "D" ring (TTFBH-C/P) with a 2" Self Locking Carabiner/Hook that meets the proper safety requirements. The maximum length of the connector to the wire grab from the harness should not exceed 9 inches.

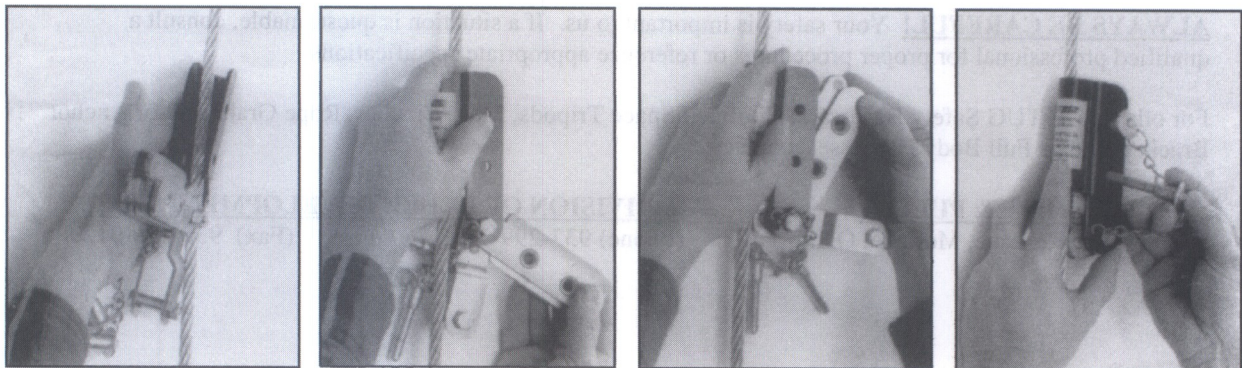
**NOTE:** This Wire Rope Grab is intended to be used as part of a complete personal fall protection system. All components, subsystems and connectors should be compatible and meet the appropriate OSHA/ANSI/CSA/EN requirements for the intended application. Substandard or non-approved components could compromise the reliability of the system and jeopardize the safety of the user.

**BEFORE EACH USE:** Inspect mechanism for proper operation by pivoting cams back and forth. Movement should be free and easy without binding. Check units for deformation, defects, corrosion or wear that may affect the free movement and/or operation of the mechanism. Units with signs of any of the above check items should be removed from service and disregarded.

**KNOW YOUR WORKPLACE:** Assess the workplace for hazards such as heat, flames, chemical, electrical, environmental, sharp objects, moving equipment, unstable/uneven or slippery surfaces. Identify the potential hazards and plan the installation to avoid dangerous paths, obstructions and zones. Have an emergency rescue/contingency plan in place in the event that an accident may occur.

### **INSTALLATION**

A) Release pull pins by depressing end buttons and remove from unit.



B) Open unit by pivoting clamp bar assembly away from housing

C) Attach to cable as shown in Figures A/B with arrow up

D) Close unit by pivoting cams onto rope, making sure that arrow is pointing up as shown in Figures B/C.

E) Reinsert pins into housing making sure that ball detent passes through assembly (Figure D).

F) Check security of pins by trying to remove without releasing button.

G) Work cams back and forth and run fall arrester up and down to assure functionality and freedom of movement.

H) Test installation by pulling down sharply on the attachment eye to ensure that the mechanism locks onto the cable.



### **USE:**

- A) After wire grab has been secured to safety cable, attach to safety harness front "D" Ring with an approved double locking carabiner/hook. (Installation of wire grab to safety line can take place after harness attachment if desired). Always keep wire grab above user's center of gravity.
- B) To ascend safety cable, climb ladder in a normal fashion with torso centered and close to the mechanism. Wire grab will follow user if under a steady even pull.
- C) If cable system has guides/supports, remove cable from stand-offs as they are encountered and reinsert after passing. **DO NOT REMOVE WIRE ROPE GRAB FROM SAFETY CABLE** to pass over guides, supports or standoffs, etc., unless a secondary OSHA approved attachment is made to the structure (lanyard, rope grab, etc.) prior to doing so.
- D) To descend safety cable, again climb down ladder in a normal fashion with torso centered and close to the mechanism. This will keep the attachment lever up, disengaging the clamping bar and allow the wire grab to freely lead the climber.
- E) If the lever is pulled back past center by leaning back, the clamp bar will engage the cable and the wire grab will lock up. To unlock the mechanism, simply move upward to pivot the lever over center. This will allow the wire grab to operate freely.
- F) Always keep a safe distance of 3 ft from potential hazards to avoid contact if a fall occurs.
- G) IF THE WIRE GRAB ARRESTS A FALL, REMOVE IT FROM SERVICE AND REPLACE IT.

### **CARE:**

- A) After use always clean mechanism and lubricate pivot points. Inspect unit for wear, damage and/or defects.
- B) If wire grab shows signs of excessive wear or a defective condition, remove it from service and replace it. If in doubt return it to the factory for evaluation.
- C) Keep your wire grab/fall arrester in a safe/dry storage location to prolong its service life and assure its functionality.
- D) Never alter or use a wire rope grab that has been altered, the potential malfunction could result in serious injury or death.

**WARNING:** All users of fall protection equipment must be in good health, must not have a medical history of conditions that could be aggravated by a fall, must be mentally fit and must not be under the influence of alcohol or drugs. Inattention to these factors could cause falls, serious injury or death!

**WARNING:** Any component which has arrested a fall must be immediately removed from service.

**WARNING:** Do not attempt to repair damaged equipment. Remove from service immediately.

**WARNING:** Discard equipment if there is any evidence of excessive wear, damage or malfunction.

**ALWAYS BE CAREFUL!** Your safety is important to us. If a situation is questionable, consult a qualified professional for proper procedures or reference appropriate specifications.

For other TUF-TUG Safety Hardware; Confined Space Tripods, Man Winches, Rope Grabs and/or Anchor Brackets and/or Full Body Harnesses, contact:

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