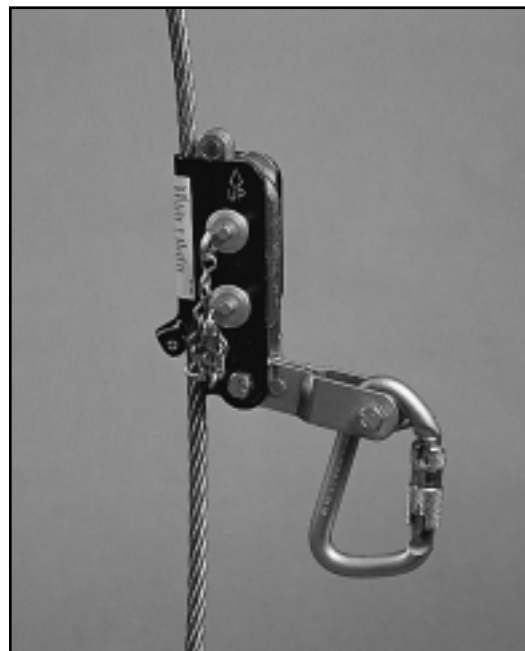
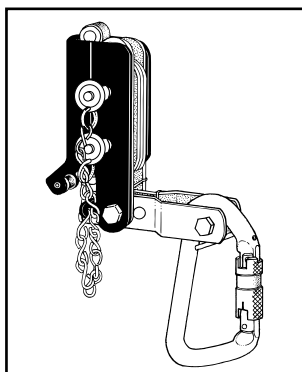


# Sellstrom/RTC® 2001 CableGrab™

## Installation, Operating & Maintenance Instructions

### Sellstrom/RTC® Product: CableGrab

- For vertical fall arrest protection on steel cable
- For use with 3/8" dia. (7 x 19) cable
- Automatically travels with user
- Quick release pins allow easy attachment to safety cable
- Conforms to OSHA and ANSI standards



## WARNINGS



**To the Receiver,  
Contractor, Store  
Manager, Safety  
Director, Supervisor,  
Buyer, or anyone  
except the ultimate  
equipment users:**

### Under Penalty of Law

These instructions are not to be removed except by the user of this equipment. Current instructions must always be available to any potential user. Note: Because of continuous developments in the application and use of SM/RTC equipment and our desire to serve your best interests, these instructions are invalid 10 years after the effective date on these instructions. If you purchase a product, and these instructions are out of date, call SM/RTC Customer Service and request current instructions. Dial toll free (800) 323-7402 (U.S. and Canada) or (847) 358-2000.

If you have difficulty or experience any problem with SM/RTC equipment or the instructions, call the above toll-free number or (847) 358-2000 immediately and ask the Customer Service Department for assistance.

It is the responsibility of the user's management to review these instructions periodically, and to ensure compliance with every requirement to maintain the system's designed integrity. The equipment purchased is designed to be used as a part of a complete fall protection system and is to be inspected and maintained regularly.

**WARNINGS Continued...**

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www.fallprotection.com

**sellstrom / RTC®**

# Sellstrom/RTC® 2001 CableGrab™

## Installation, Operating & Maintenance Instructions

### WARNINGS



**To the Equipment User:**  
**You must read and fully understand or have the following instructions explained to you before using this equipment. Failure to do so could result in serious or fatal injury.**

**Atencion:** Si usted no puede leer el ingles o si usted no comprende estas instrucciones, favor de consultar su director de seguridad o su supervisor.

**Attention:** Si vous ne pouvez pas lire l'anglais ou si vous ne comprenez pas les instructions, consultez votre directeur de securite ou votre superviseur.

**Achtung:** Wenn Sie nicht Englisch lesen können und diese Anweisungen nicht verstehen, dann fragen Sie bitte Ihren Sicherheitsdirektor oder Ihren Aufselher.

**Attenzione:** Se non leggiere l'inglese o non capite queste istruzioni, per favore rivolgete Vi al Vostro Direttore, responsabile della "Sicurezza sul Lavoro" o al Vostro diretto superiore.

You assume complete liability if you fail to follow these instructions and are injured. Your Worker's Compensation Benefits may be reduced because of your failure to use safety devices correctly.

A "no" answer to any question in the Safety Checklist on the back page of these instructions, either before or during product use, is an unsafe use of this equipment. Use this equipment only as instructed.

Warning: All SM/RTC equipment should be used as part of a complete SM/RTC fall protection or emergency rescue system. If the buyer or user chooses to disregard this warning, he is solely responsible for the safety of the entire system and all users.

It is not unusual for lanyards, lifelines, harnesses, or other fall protection equipment to become misplaced or rendered unusable at different times. Before replacing or adding components to a fall protection or emergency escape system, consult the original manufacturer. Federal OSHA further

states that any unauthorized substitution or change to a system by the buyer should be fully evaluated or tested by a qualified person before the new system is put into use (see OSHA 1926.500).

All potential users of this equipment and user's management must read and understand all instructions fully; failure to do so could result in serious or fatal injury.

No fall arrest system can guarantee that you will not sustain injuries if a fall occurs. The most you can expect is that injuries will be substantially reduced. What you can be sure of is that improper use of this equipment will vastly increase your chances of serious injury or death because misuse builds false security. To achieve the maximum level of safety that this equipment is capable of providing, all instructions must be followed diligently. This means careful planning of your application and work method.

# *Sellstrom/RTC® 2001 CableGrab™*

## *Installation, Operating & Maintenance Instructions*

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### **Complete System Components**

A complete fall protection system consists of the following components that are arranged to fit the specific work task and control the elevated fall hazard(s):

- **Anchorage Point:**  
Supplied by customer as specified in the appropriate instruction booklet for each device (SM/RTC tripods and davits not included).
- **Body Support:**  
Request SM/RTC instruction #569 for SM/RTC full body harnesses.
- **Connecting Means:**  
Request the accompanying instruction booklet for each device or #567 for lanyards.
- **Connecting Links:**  
Used for installation or attachment of an SM/RTC system. Request SM/RTC instruction #574 for SM/RTC Snaphooks and Carabiners.

- **Rescue Plan:**

The user must have a rescue plan and the means at hand to implement it in the event of a fall.

Note: For continuous protection, more than one system may be needed.

### **Warning**



No Other Applications or Methods of Use Are Allowed Without Prior Written Approval.

# Sellstrom/RTC® 2001 CableGrab™

## Installation, Operating & Maintenance Instructions

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### 1.0 Approved Application

#### Warning



No other applications or methods of use are allowed without prior written approval from an officer of SM/RTC.

These instructions are for both the equipment user and the user's management. Each should read and understand these instructions fully before using this equipment. Failure to do so could result in serious injury or death.

**Anchorage Strength:** All anchorage points must be capable of supporting a minimum of 3,600 lb. when certification exists, or 5,000 lb. in the absence of certification. (See ANSI Z359.1 for definition of certification.) When more than one personal fall arrest system is attached to an anchorage, the anchorage's strengths above shall be multiplied by the number of personal fall arrest systems attached to the anchorage. This requirement is consistent with OSHA requirements as follows: Anchorages used for attachment of personal fall arrest systems shall be independent of any anchorage being used to support or suspend platforms and

capable of supporting at least 5,000 lb. per user attached, or be designed, installed and used as part of a complete PFAS which maintains a safety factor of at least two and is supervised by a qualified person.

The SM/RTC 2001 series CableGrab device can be used for protected access on a structure where fall hazards occur. This system is designed for climbing protection on vertical fixed ladders that meet OSHA and ANSI A14.3 standards. It can be used above or below ground, on interior or exterior surfaces. The SM/RTC CableGrab is for fall arrest use only. This should not be used for accessing, and for work positioning (leaning off balance) purposes. Hands and feet must be in firm contact with railing and rungs at all times with full balance applied through the feet and one limb moved at a time.

**1.1** The SM/RTC-2001 CableGrab is approved for use only in combination with an SM/RTC full body Harness with front and/or side D-ring. Use of lanyards is not permitted which allows a free fall greater than 18 inches to meet ANSI A14.3-1992 and applicable OSHA standards.

# Sellstrom/RTC® 2001 CableGrab™

## Installation, Operating & Maintenance Instructions

### 2.0 Operating Characteristics

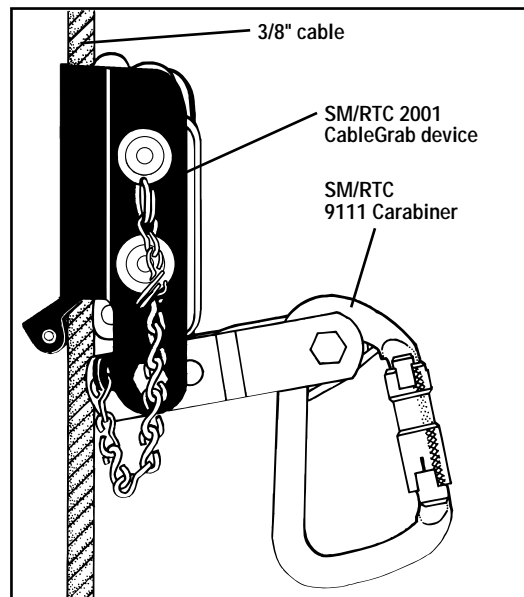
#### Warning



This device should be used only with 3/8 inch diameter galvanized or stainless steel cable. If other size or material is used, the unit may not arrest the fall.

The SM/RTC-2001 CableGrab is a detachable, sliding device which moves freely up or down on 3/8 inch galvanized or stainless steel cable. When the upward force is removed, the CableGrab device automatically locks at any point on the cable. The instantaneous locking is achieved through an effective cam-locking system.

The SM/RTC CableGrab device has an attached SM/RTC-9111 Carabiner which is to be used when securing the CableGrab device to the climber's full body harness (See illustration).



### 3.0 Available Models

SM/RTC 2001-9111 CableGrab Vertical Climbing System

### 4.0 Complete System Components

4.1 A complete SM/RTC 2001 CableGrab Vertical Climbing System must include the following components:

- SM/RTC-2001-9111 Device

- 3/8" galvanized or stainless steel (7 x 19) cable
- SM/RTC 7430 or 7435 series full body harness with side or front D-ring(s)
- Appropriate ladder attachment brackets

### 5.0 Performance Data

#### 5.1 Designed Working Capacities

The designed working load is 310 lb., including tools, for individual use. Device has

been tested with 3/8" cable for 500 lb./18 inch free fall; distance to stop is less than 18". This test is in conformance with ANSI A14.3 standard.

### 6.0 Installation and Attachment

#### 6.1 Tools Required for Installation:

- 9/16 inch wrench/socket wrench and torque with 9/16" socket

#### 6.2 Cable Installation:

1. Install the anchorage for the cable system at the top of the ladder. If using an SM/RTC ladder bracket, install

*Continued...*

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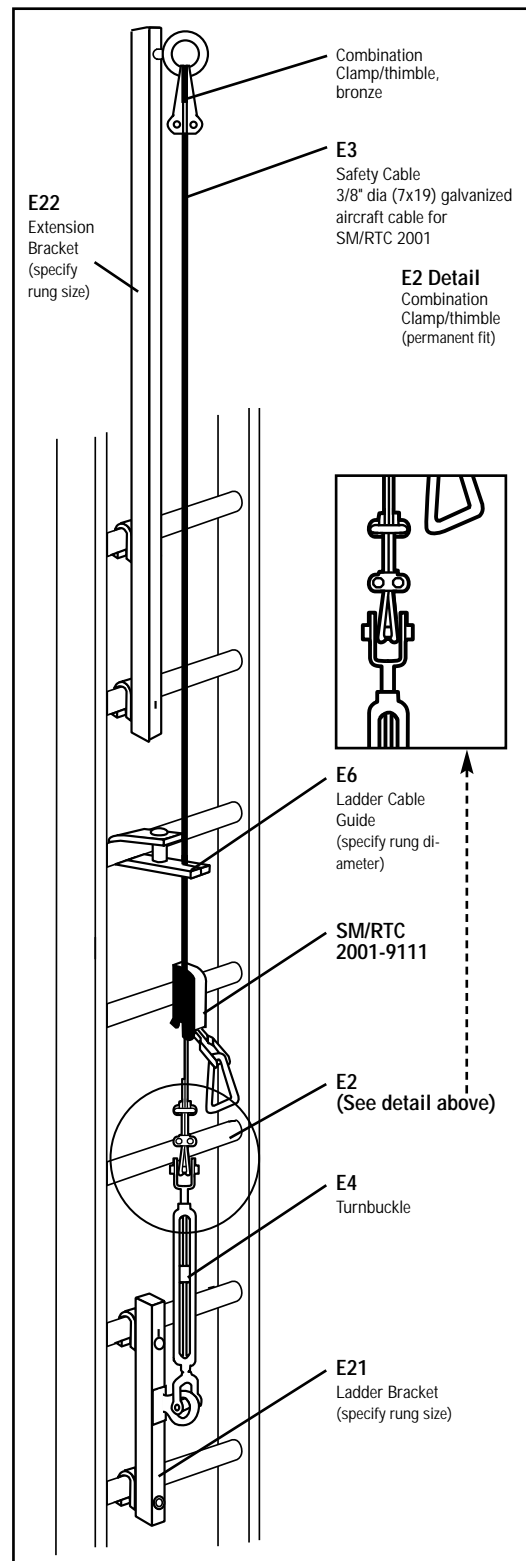
## Installation, Operating & Maintenance Instructions

### 6.0 Installation and Attachment

*Continued*

according to the instructions provided with the bracket. Be sure to verify that the anchorage and the structure to which it is attached meet the requirements of section 1.0.

- 1a. Your cable system will come with a clamp thimble and U-shackle attached to one end of the cable. This is the upper end of the cable. Use the U-shackle to connect the cable to the anchorage at the top of the ladder. This end must be connected to the top of the system.
- 1b. Install the bottom ladder bracket at the bottom of the ladder. If using an SM/RTC ladder bracket, install according to the instructions provided with the bracket.
- 1c. The bottom of the cable will be secured using the wire rope thimble and cable clips provided. Place the wire rope thimble through the ladder bracket (or turnbuckle if applicable) and thread the cable around the wire rope thimble. Pull the cable taut. You should have at least 6.5 in. of cable remaining.
- 1d. Apply first clip approximately 1 3/4" from "dead" end of cable.
- 1e. Apply U-bolt over "dead" end of wire rope — live end rests in saddle.
- 1f. Tighten nuts evenly, alternating from one nut to the other until reaching 45 ft.-lb.
- 1g. Apply the second clip as near the loop or thimble as possible.
- 1h. Tighten nuts evenly, alternating until reaching 45 ft.-lb.
2. Attach cable guides (E6) to ladder along path of cable every 25 ft. Make sure the cable is contained in cable guide eyelet. Ladder cable guides help to eliminate damage from wind caused vibrations.



*Continued...*

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## Installation, Operating & Maintenance Instructions

### 6.0 Installation and Attachment

*Continued*

#### 6.3 Device Installation

1. Release pull pins by depressing end buttons and remove from unit. (Photo A)
2. Open unit by pivoting clamp bar assembly away from housing. (Photo B)
3. Attach to cable as shown in Photo C.
4. Close unit by pivoting cams onto rope, making sure that arrow is pointing up as shown in Photo B and C.
5. Reinsert pins into housing making sure that ball detent passes through assembly. (Photo D)
6. Check security of pins by trying to remove without releasing button.
7. Work cams back and forth and run the CableGrab device up and down to assure functionality and freedom of movement.
8. Test installation by pulling down sharply on the attachment eye to ensure that the mechanism locks onto the cable.



Photo A



Photo B



Photo C



Photo D

### 7.0 Operating Instructions

#### Warning



You must follow these instructions carefully to allow this equipment to provide you with needed fall protection during the job. If you have any concerns about the condition of the equipment or experience any problems, notify your supervisor or the safety department immediately. Never take any chances.

Important: If you fall, remove the equipment from service and immediately report what happened to your supervisor or the safety department. The unit must be removed from use and returned to SM/RTC for inspection and recertification.

All Harnesses must fit snugly and be positioned properly on the body whenever in use.

Never use the CableGrab device upside down. Serious injury or death may result if a fall occurs.

*Continued...*

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# Sellstrom/RTC® 2001 CableGrab™

## Installation, Operating & Maintenance Instructions

### 7.0 Operating Instructions

*Continued*

**7.1** Attach the SM/RTC CableGrab device onto the wirerope with the arrow pointing upwards.

**7.2** Test the SM/RTC CableGrab device by sliding it up the cable holding the hook, and then dropping the hook. Do not use the device if it does not lock immediately.

**7.3** Attach the SM/RTC CableGrab device Carabiner hook to the side or front D-ring on your full body harness and climb ladder in a normal fashion with torso close to the mechanism. CableGrab device will follow the user under a steady pull.

**7.4** If cable system has cable guides, then remove the cable from the guide to pass over that guide and reinsert after passing. Do not remove CableGrab Device from the safety cable to pass over the guides.

**7.5** To descend, 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 allowing the CableGrab to freely lead the climber.

**7.6** If the lever is pulled back past center by leaning back, the clamp bar will engage the cable and the CableGrab will lock up. To unlock the mechanism, simply move upward to pivot the lever over the center. This will allow the CableGrab to operate freely.

**7.7** Make sure harness is positioned correctly and that it fits snugly. For proper use of the full-body harness, see SM/RTC instructions #569.

### 8.0 Training

All training must be conducted under careful and competent supervision. Live hands-on training for all users is essential to help understand the capabilities and limitations of their personal protective equipment. Training also helps promote confidence and should

be conducted as an initial introduction as well as periodically for review and additional practice. Also, this instruction booklet should be stored where users can easily review it whenever necessary. Training should be site specific.

### 9.0 Inspection

Every time you use the SM/RTC-2001 CableGrab system, you must first inspect it for damage and excessive wear. A qualified person, as defined in OSHA 1926.32, must also inspect the equipment at least every six months. If you find any defective conditions, remove the item from service immediately, replace it, and contact SM/RTC for advice. Failure to remove damaged or questionable equipment could lead to serious or fatal injury.

**9.1** Carabiners: All carabiners must close and lock every time; be sure they do not

stick open because of damage or dirt. Ensure that the hook opens properly when you rotate the gate and that the gate self-closes and locks fully. Examine all hook parts carefully for cracks, broken or bent conditions, and to ensure that they are free of burrs or other signs of damage.

**9.2** Steel Cable: Check for cuts, fraying, corrosion or other visible damage. Splices should be firm and secure.

*Continued...*

# Sellstrom/RTC® 2001 CableGrab™

## Installation, Operating & Maintenance Instructions

### 9.0 Inspection

*Continued*

**9.3** Check that the ladder and/or extension brackets and cable guides are fitted exactly as indicated in the installation instructions.

**9.4** Check that cable tension is maintained at regular intervals to the level explained in the installation instructions.

**9.5** Make sure that the cable guides are spaced every 25 ft. (if the system is longer than 40 ft) and that the cable passes through the cable guide.

**9.6** Check that the clamp thimble is completely closed so that the cable cannot come into contact with the installation eyebolt.

**9.7** Inspect the SM/RTC 2001-9111 Device for wear and damage. If you see any excessive wear or damage to the device, remove from service and call SM/RTC for factory service.

### 10.0 Maintenance

**10.1** Personal protection equipment should be maintained regularly to help make sure that the equipment will operate properly when needed. Failure to maintain and store equipment carefully can result in poor operation that could lead to serious or fatal injury.

**10.2** All equipment should be part of a periodic maintenance program that includes detailed records of inspection and maintenance. A minimum of an inspection every month is suggested, or more frequently if the equipment is heavily used.

**10.3** Never make any adjustments or repairs to or substitute any parts of the SM/RTC system. Call SM/RTC Customer Service for advice. You must return the unit for factory inspection and maintenance within two years of manufacture date and every two years thereafter.

**10.4** Clean SM/RTC 2001-9111 device regularly using a dry cloth or brush and lubricate pivot points to ensure the rollers rotate freely. Choose a suitable lubricant that does not attract dirt or grit.

### 11.0 Warnings

#### Warning



Failure to observe the warnings below, follow all instructions in this booklet, or seek qualified assistance when needed can lead to serious or fatal injury.

**11.1** Do not exceed maximum weight capacity of 310 lb., including tools.

**11.2** Never attempt to use SM/RTC 2001 Series CableGrab device upside down because in this mode while descending, no locking is provided and so you may be seriously injured or killed.

**11.3** Never substitute parts of the SM/RTC 2001 CableGrab system.

**11.4** Do not use this equipment in violation of any applicable company, state, or federal standard or requirement. This equipment is designed to comply with OSHA 1910.27, OSHA 1926.1053 and ANSI A14.3-1992 requirements for fixed ladders. Fall arrest equipment used to install this equipment meets OSHA 1910.66 Appendix C and OSHA 1910.129/130 and OSHA 1926 subpart M.

**11.5** Never use a lanyard or other means to provide extra space between device and body support. This will increase the fall

*Continued...*

# Sellstrom/RTC® 2001 CableGrab™

## Installation, Operating & Maintenance Instructions

### 11.0 Warnings

*Continued*

distance to more than 18 inches and you may be seriously or fatally injured.

**11.6** Remove from service immediately after a fall.

**11.7** Never rely on the sound of a snaphook closing on a D-ring; check it visually for proper attachment.

**11.8** All users must be in good mental and physical health and not under the influence of drugs or alcohol.

**11.9** To achieve the maximum level of safety possible with this system, all instructions must be followed carefully and fully. You must plan the use of safety equipment before the job begins. Regularly inspect and maintain the system.

### 12.0 Questions

If you have any questions or need additional explanation or clarification about the use of any SM/RTC equipment, call SM/RTC Customer Service.

### Safety Checklist

#### Warning



Do not use SM/RTC equipment if you answer "no" to any of the questions below!

- ✓ Has all equipment been assembled and installed according to SM/RTC instructions?
- ✓ Has all equipment been inspected and maintained in accordance with SM/RTC instructions?
- ✓ Does the anchorage point meet SM/RTC and OSHA requirements?
- ✓ Is the equipment suited for the intended work task, and is it capable of providing continuous protection?

- ✓ Has each user received training, when hired or within the last 12 months, in the proper and safe operation and use of the equipment?
- ✓ Do all users fully understand the instructions and agree to use the equipment in a safe manner?
- ✓ Has SM/RTC been called if you or any user does not know how to comply with these instructions?

A "no" answer to any of the questions above could lead to a serious or fatal injury to a user or anyone in the vicinity of use. If you have questions, contact SM/RTC .