



MODEL NO.
SERIAL NO.
DATE OF MANUFACTURING

## USER INSTRUCTIONS BEAMGLIDE™ TROLLEY

### ! WARNING

***National standards and state, provincial and federal laws require the user to be trained before using this product. Use this manual as part of a user safety training program that is appropriate for the user's occupation. These instructions must be provided to users before use of the product and retained for ready reference by the user. The user must read, understand (or have explained), and heed all instructions, labels markings and warnings supplied with this product and with those products intended for use in association with it. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.***

WHEN USED AS INSTRUCTED, THE BEAMGLIDE TROLLEY WILL REDUCE THE USER' S RISK OF INJURY FROM POTENTIALLY HAZARDOUS FALLS. MISUSE COULD RESULT IN SERIOUS OR FATAL INJURY. IT IS THE RESPONSIBILITY OF THE USER AND THE USER'S MANAGEMENT TO BE CERTAIN THE USER IS THOROUGHLY TRAINED IN AND COMPLIES WITH THE PROPER INSTALLATION, OPERATION, AND LIMITATIONS OF THIS PRODUCT AS WELL AS CAREFUL INSPECTION, MAINTENANCE AND STORAGE OF THE PRODUCT BEFORE AND AFTER USE. TRAINING AND INSTRUCTION REVIEW SHOULD BE REPEATED AT REGULAR INTERVALS BY THE USER AND THE USER' S MANAGEMENT. THE BUYERS AND USERS OF THIS PRODUCT ASSUME ALL RESPONSIBILITIES FOR SAFETY AND USE NOT IN ACCORDANCE WITH THESE INSTRUCTIONS. IT MAY BE A VIOLATION OF FEDERAL, STATE, OR LOCAL LAWS TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING AND INSTRUCTIONS.

## 1.0 DESCRIPTION OF TROLLEY:

The trolley is a moveable anchorage and is suitable for supporting either personnel or material. It consists of a carriage with four (4) wheels containing anti-friction bearings, which are rigidly connected to aluminum housings and to a steel cross bar. (See Figure 1) The cross bar provides an anchorage point for attaching material handling or fall protection equipment. The trolley provides easy mobility with a maximum personnel working load of 310 lbs. (141 kg.) and a maximum material working load of 620 lbs. (282 kg.).

## 2.0 APPLICATIONS:

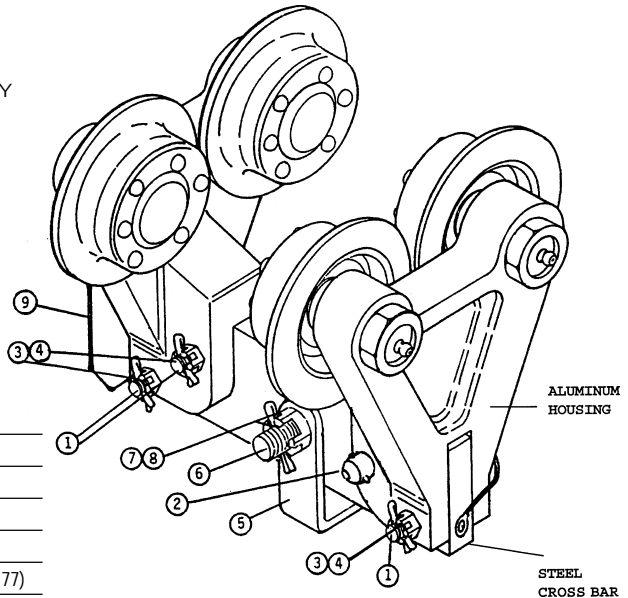
The personnel and material handling trolley can be used for maintenance and manufacturing by such agencies as construction, equipment installation, airlines, manufacturing, municipalities, and warehousing.

The trolley is a highly mobile and useful anchorage device, because it can be positioned anywhere along an overhead beam. The Trolley is designed to fit the support beam, which is specified by the user.

The user should always consult with the factory or a qualified engineer to determine if the trolley is suitable for the intended use and application prior to placing it in service.

FIGURE 1

HORIZONTAL BEAM TROLLEY  
P/N 506266



### SPARE PARTS LIST

1	BOLT (P/N 520728)
2	BALL LOCK PIN (P/N 620925)
3	NUT (P/N 621192)
4	COTTER PIN (P/N 620204)
5	HANGER BRACKET (P/N 6221177)
6	BOLT (P/N 520721)
7	NUT (P/N 621190)
8	COTTER PIN (P/N 621190)
9	WARNING LABEL (P/N 521081)

## 3.0 INSPECTION:

Each trolley is inspected and tested under controlled conditions at the factory before shipment. However, user inspection and maintenance of the trolley takes on added importance once the device is subjected to potentially severe environmental and workplace conditions.

Before each use, the user should carefully inspect the device by following the inspection instructions in this manual and on the label attached to the trolley.

Inspect the trolley to be sure all bolts, nuts and cotter pins are correctly in place. Inspect for bends or cracks that could occur during mishandling in shipment. Inspect wheels to be sure all turn freely and are fully lubricated. Set the trolley on a flat surface to be sure all wheels set squarely.

Before each use inspect and replace any worn or defective parts. Check housings for cracks. Check for loose or worn bolts. Inspect each wheel to be sure it turns freely and is properly lubricated. Note: Proper and frequent lubrication gives lower rolling resistant. Lubricate with Mobil Temp SHC 32 or equivalent every six months, minimum.

Inspect nylon bushing in cross bar for wear or excessive load cracks. Return to Rose Manufacturing Co. for replacement if it is cracked. (See Figure 2 - bottom of cross bar detail)

## 4.0 INSTALLATION:

Precautions to observe when installing personnel and material handling trolley are as follows:

### 4.1 SELECTION OF INSTALLATION SITE.

Before beginning installation, it is important to carefully analyze factors in the workplace which may affect the use and function of the trolley. Specifications for installation are shown in Figure 3.

These factors include workplace geometry, environmental considerations, the location and nature of hazards, location and strength of beam anchorage and the work space intended by the user: (Note:

The minimum load carrying capacity of the beam used to support the trolley shall be 5000 lbs (22.2 kN.) for each Trolley on the support beam

Develop a user rescue plan before making a final decision on where to install the trolley.

Other factors may exist which cannot be foreseen by the trolley manufacturer, but will become evident to the competent person or qualified engineer who supervises the installation at the workplace. Take time to consider all foreseeable possibilities and formulate an installation plan.

This device should be installed above the workplace of the intended user sufficiently high to minimize the effects of a swing fall. The area below must be clear of persons and objects while installing unit onto beam.

Pay careful attention to all directions of possible horizontal movements of the user at different elevations. It is this horizontal movement which will introduce swing fall hazards. Never install the trolley where it will be necessary for the user to be exposed to a swing fall that may cause injury if an obstacle or hazard comes into the path of his swing.

In the extreme, never install the trolley at such a low elevation that the cable will make an angle greater than 30 degrees with the vertical by virtue of the expected horizontal movement of the user.

Carefully consider the cable path along the entire length of the trolley beam. It should not pass over, under, around or in the path of other workers or moving equipment or materials. If necessary, use safety barriers and signs to prevent equipment, materials or other objects from interfering with its path. Travel stops on I-beams should not be placed where user could over-travel the 30 degree fall angle limit. Avoid installation sites where debris, contaminants or objects falling from above could lodge on top of the I-beam flange and limit trolley movement.

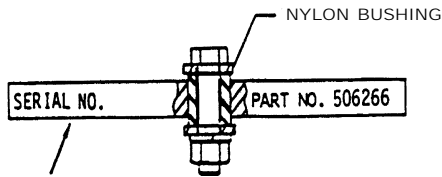
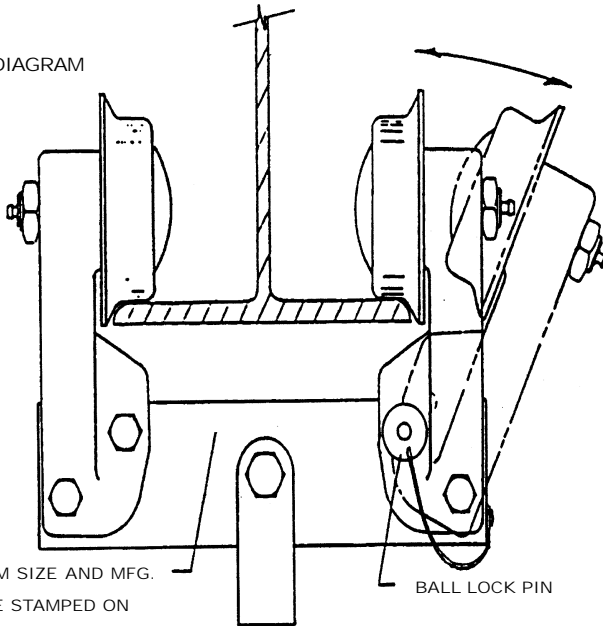
Never install where the user, fall protection system, or trolley system can encounter an electrical hazard.

Consider the location and nature of the hazards, which will be in the space around and below the user as he moves. Consider the possible fall paths of the user and select an installation site that acceptable controls or minimizes the user's exposure to these hazards in the event of a fall.

Be extremely careful when considering the use of the trolley for fall protection of a user where a swing fall may take a worker over a hazardous area such as chemicals or acid baths. The use of a travel stop should be considered for such applications. Do not install the personnel and material handling trolley for such applications if there is any question as to whether it will expose the user to any environmental or physical hazard.

An installation plan should be made prior to installing the trolley. The installers must always use an appropriate fall arrest system when installing the trolley in a hazardous area. The trolley installation parts and tools must be secured against falling while installation is being performed.

FIGURE 2  
INSTALLATION DIAGRAM



DETAIL: BOTTOM OF CROSS BAR

**! CAUTION:**

***Use installation hardware provided by the manufacturer. Any deviation from the specified hardware and methods presented in these instructions must be approved by Rose Manufacturing Co.***

#### 4.2 ANCHORAGE

The beam anchorage is the most fundamental element of a fall arrest system. The trolley support beam must be capable of supporting 5,000 lbf. (22.2 kN) for each trolley on the support beam. This load can be reduced to 3600 lbf. (16kN) if the beam is designed and installed under the supervision of a qualified engineer.

#### 4.3 MAKING THE INSTALLATION.

Prior to installation inspect trolley I-beam to be sure it is free from cracks, bends, weld spatter, obstructions and fallen objects. Be sure all weld joints are ground smooth and are free from slag or pits and are dimensionally unaltered. (See Figure 3) Inspect beam to be sure that end stops have been installed and are correctly located to minimize swing falls.

4.3.1 SPECIFIED BEAM SIZE.

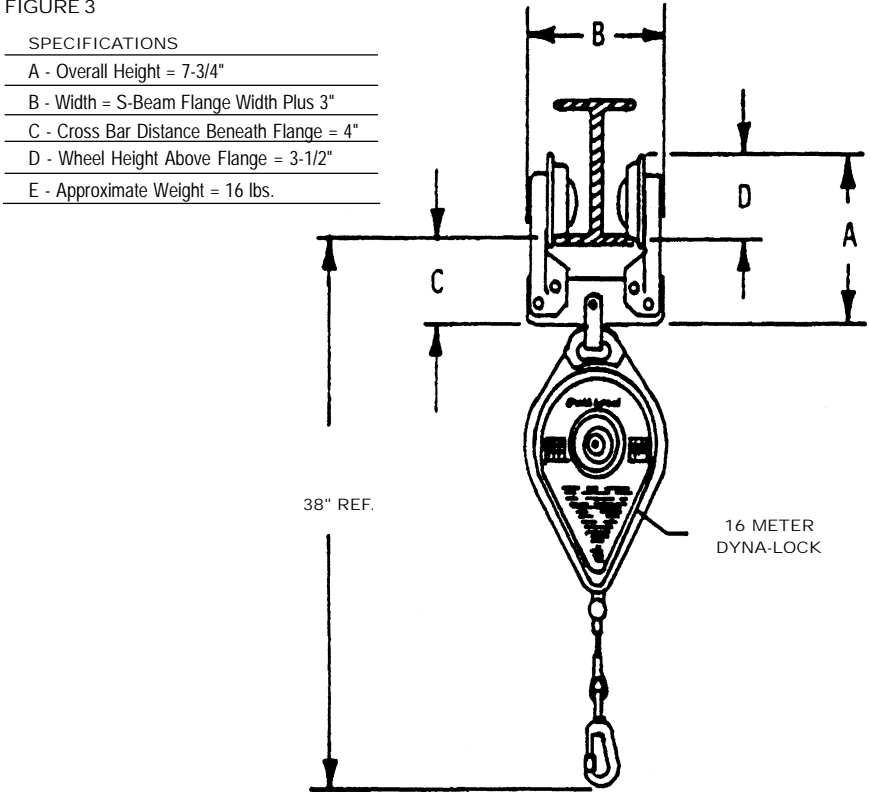
The trolley is designed and built to fit both S-beams and wide flange beams. The specified beam that matches each trolley is stamped on the steel cross bar. (See Figure 2).

**! CAUTION**  
***Do not install trolley on beams of different size or weight.***

4.3.2 INSTALLATION PROCEDURE.

Before trolley can be assembled to the I-beam, remove ball lock pin from the aluminum housing and pivot the housing outward as shown (See Figure 2). Raise the trolley wheels over the beam flange and pivot the housing back to its innermost position. Reinsert the ball lock pin. Inspect to be sure all four (4) wheels contact the beam flange squarely.

FIGURE 3



SPECIFICATIONS FOR THE TROLLEY SUPPORT BEAM INSTALLATION

Beam Levelness (camber): 1-1/2" per 100 feet

Gap at joint: 1/16" to 1/8"

Horizontal mis-alignment at joint + 1/16"

Vertical mis-alignment at joint + 1/16"

Grind vertical step flush along outer 1" of flange on path of Trolley Wheel at each joint.

4.3.3 TRAVEL STOP INSTALLATION.

Travel stops must be installed prior to trolley installation.

To install travel stops, drill two (2) 1/2" dia. holes through the I-beam, 1 1/2" above the inside edge of the lower flange, 1 3/8" apart as shown in Figure 4.

Care must be taken to install travel stops at the correct location.

4.3.4 TROLLEY INSTALLATION.

Installation of the trolley is accomplished when the four (4) wheels of the trolley are seated squarely on the inside lower flange of the specified I-beam and all hardware is firmly in place.

5.0 SPECIFICATIONS

The Beamglide Trolley meets ANSI Z359.1-1992, ANSI A10.14-1991, and OSHA 29 CFR Part 1910.66 Appendix C-1989. These instructions and the labels on the product fulfill the requirements of those standards.

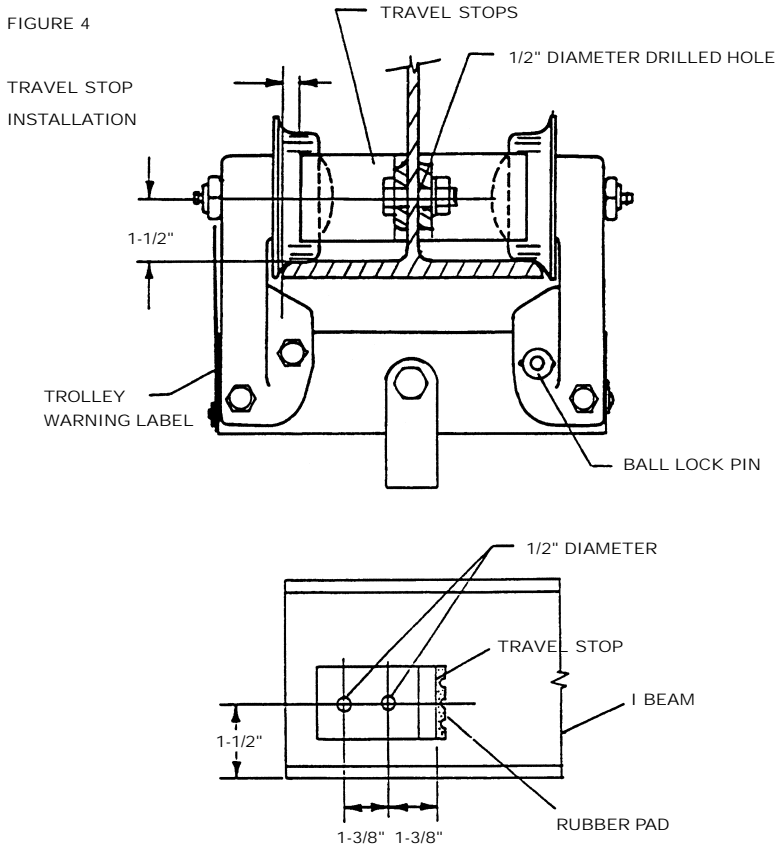
MAXIMUM WORKING LOAD:

Personnel - 310 lbs. (141 kg.)

Material - 620 lbs. (282 kg.)

Maximum Static load - 5000 lbf. (22.2 kN.)

FIGURE 4



## 6.0 CARE AND MAINTENANCE:

Proper functioning and length of useful life of the trolley depends on the user's proper care and maintenance of the product.

### 6.1 CARE OF PRODUCT.

Do not drop the trolley assembly as this may cause damage to wheels, bearings or housings. If dropped, return unit to Rose Manufacturing Co. for inspection.

### 6.2 MAINTENANCE.

Proper maintenance of the trolley system is both preventative and corrective in nature.

Routine maintenance should include keeping beam flanges clean and beam joints in proper adjustment at all times.

Trolley wheels must be kept clean and properly lubricated with Mobil Temp SHC 32 or equivalent.

Inspect before each use; replace all damaged or worn parts. Contact Rose Manufacturing Co. for replacement parts. For replacement or repair of parts not listed in the spare parts list (See Figure 1), the trolley must be returned to Rose Manufacturing Co. for factory authorized repair.

## 7.0 MARKINGS AND LABELS

The following labels must be securely attached to the Beamglide Trolley and be legible. (See figure 1 for location)

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**BEAMGLIDE™ TROLLEY**

**WARNING: READ AND HEED THIS LABEL AND ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION OR USE - FAILURE TO OBSERVE INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH.**

MEETS ANSI Z359.1 AND OSHA REGULATIONS

- Do not drop this trolley assembly. It may damage wheels, bearings, or the housings. If dropped, return unit to Rose Systems, Inc. for inspection.

Area below must be clear of persons and objects while installing unit to beam. (See user manual 4.0)

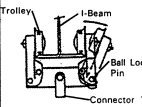
**Maximum Working Load:**  
 - Personnel 310 lbs. (141 kg)  
 - Material 620 lbs. (282 kg)

**Maximum Static Load:**  
 - Capacity 5000 lbs. (22.2 kN)

Install end stops on the beam before assembling trolley assembly to beam.

- Do not install this trolley on beam size other than size stamped on unit.

Install trolley assembly according to installation instructions.



1) REMOVE BALL LOCK PIN  
 2) SWING WHEEL ASSY. OUTWARD  
 3) POSITION WHEEL OVER FLANGE  
 4) SWING WHEEL ASSY INWARD  
 5) REINSTALL BALL LOCK PIN

SEE REVERSE SIDE OF LABEL FOR ADDITIONAL WARNINGS AND INSTRUCTIONS.

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- Do not connect any items to the connector yoke that can be damaged by cutting, abrasion, etc.

Beam flanges must be kept clean and in proper alignment at all times.

Trolley wheels must be kept clean and properly lubricated at all times.

Before each use inspect all bolts and nuts to see that they are tight and that cotter pins are in place.

- Do not subject personnel to swing falls. Trolley beam must be directly overhead at all times.

Trolley is designed for single personnel use only.

Inspect before each use. Replace all damaged or worn parts.

- Do not use the trolley system near exposed electric circuits.

Contact Rose Systems, Inc. for recommended fall protection equipment to be used with this trolley system.

User manual P/N 621629



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P/N 621081 REV D

**WARRANTY**

***Express Warranty – Rose/MSA warrants that the product furnished is free from mechanical defects or faulty workmanship for a period of one (1) year from first use or eighteen (18) months from date of shipment, whichever occurs first, provided it is maintained and used in accordance with Rose/MSA's instructions and/or recommendations. Replacement parts and repairs are warranted for ninety (90) days from the date of repair of the product or sale of the replacement part, whichever occurs first. Rose/MSA shall be released from all obligations under this warranty in the event repairs or modifications are made by persons other than its own authorized service personnel or if the warranty claim results from misuse of the product. No agent, employee or representative of Rose/MSA may bind Rose/MSA to any affirmation, representation or modification of the warranty concerning the goods sold under this contract. Rose/MSA makes no warranty concerning components or accessories not manufactured by Rose/MSA, but will pass on to the Purchaser all warranties of manufacturers of such components. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, AND IS STRICTLY LIMITED TO THE TERMS HEREOF. ROSE/MSA SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. For additional information please contact the Customer Service Department at 1-800-MSA-2222 (1-800-672-2222).***

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