Read the manual carefully before using the equipment.
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ABOUT THIS MANUAL

Before using the Harken R27 Trolley, read the instructions contained in this Manual thoroughly.

This instruction manual is an integral part of the product, and it supplies all the necessary information for its correct safe use and maintenance.

If you don’t understand some of the instructions, please contact Harken’s authorized dealer. Harken shall not be liable for damages, injuries or death caused by a non-compliance to the safety and other instructions contained in this manual.

This manual is intended for specialized personnel or expert users.

WARNING!
This product is part of a personal fall-arrest system. Manufacturer’s instructions must be provided for each component of the system. The user must read and understand these instructions before using this equipment. They provide proper use, inspection and maintenance information. Alterations or misuse of this equipment, or failure to follow these instructions, may result in a fall or failure to arrest a fall, leading to serious injury or death.

This manual may be modified without notice. See http://www.harkenindustrial.com for updated versions.

WARNING!
It is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.
SAFETY INFO

- Harken R27 Trolley is designed to protect against the fall from a height risk.
- Harken R27 Trolley must be used by specialized personnel or expert users on PPE (Personal Protective Equipment), specifically trained on the use of this product.
- The R27 trolley must be used solely with Harken rail (IN1643, IN1643.CLEAR, IN1650, IN1650.CLEAR, INR27.LS) in order to constitute the Harken Access Rail system, wearing suitable PPE (Personal Protective Equipment) compliant with the laws in force on workplace safety.
- Before using the trolley, check its path and the falling hazards, evaluating the minimum fall clearance and choosing the PPE with shock absorber deployment most suitable to the type of hazard.
- Before each use, check the trolley for any trace of wear, corrosion, deformation, loose connection, etc... In case of doubts, if a trolley seems unsafe, it must be checked by an Authorized Harken Inspector.
- All operators using the trolley must observe the instructions for use.
- Harken shall not be liable for injuries or damages resulting from an improper use of the trolley.
- The trolley must be used only by physically and psychically healthy personnel. Cardiac and circulatory problems, taking medications, alcohol and drugs could compromise the safety of the user when working at height.
- Before installing and using the Access Rail System, it is mandatory to organize the safety plan in case of emergencies that occur during the work.
- For more information about the Harken R27 Trolley and the related safety information see the website http://www.harkenindustrial.com
THE TROLLEYS

R27 TROLLEYS

The R27 trolleys are designed to be used with the R27 rails (IN1643, IN1643.CLEAR, IN1650, IN1650.CLEAR, INR27.LS) as an adjustable anchorage point for fall arrest and rope access (human suspension). The R27 trolley and components constitutes the Harken Access Rail system. The trolleys are EU certified for the EN 795:2012 Type B.

Lightweight trolleys are constructed of strong, one-piece solid aluminium. The adjustable pinstop allows trolleys to be moved along the rail and locked into a new location. The Torlon® ball bearings inside the trolley, handle high loads, reducing friction so that the trolley moves smoothly along the rail.

The wheel of the IN10567, IN10567.CLEAR, IN10614, IN10614.CLEAR and IN10615, IN10615.CLEAR trolleys is made of polyurethane (PU) and the pinstop of the IN9606, IN9606.CLEAR, IN10614, IN10614.CLEAR, IN9565 and IN9565.CLEAR is made of Nylon.

COMPONENTS

The R27 trolleys must be used with the following components in order to constitute the Harken Access Rail system:

Trolleys

Twelve types of trolleys (single trolley for fall arrest system and double trolley for human suspension).

The part number without .CLEAR refers to the black hard-coat anodized version of the trolley.

(Torlon is registered trademark of Solvay Advanced Polymers)
Rails

Extruded anodized aluminium rail available with different length. For more details see the catalog. The rail can also be supplied bent.

The part number without .CLEAR refers to the black hard-coat anodized version of the rail.

Available standard in clear-anodized. A wide range of optional specialty colours are available via request/special order. Ask your Harken industrial rep for details.

The INR27.LS rail must not be used with the IN10567, IN10567.CLEAR, IN10614, IN10614.CLEAR and IN10615, IN10615.CLEAR trolleys.

Endstops

Connectors
PREREQUISITES AND LIMITATIONS

The R27 trolley and components have been designed to support any accidental operator fall. In order to guarantee its correct operation, and maintain the mechanical integrity in case of fall, each user must wear the Personal Protective Equipment (PPE) recommended by workplace safety regulations.

All PPE must be certified and marked according to the relevant national regulations. By using the personal protective equipment, in case of a fall, the force transmitted to the operator (and consequently to the trolley sliding on the rail) will be no greater than a maximum 6 kN. Personal fall arrest systems include, but are not limited to: a shock-absorbing mechanism, lanyard and a full body harness to limit the maximum arresting force to 6 kN.

Personal Fall-arrest systems used with this equipment must meet controlling regulations for the country of use.

Fall clearance - There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or other obstruction and it consists of the stopping distance plus the free space of 1 m under the feet of the user. See appropriate documentation published by regulatory authority.

WARNING!
It is essential for safety to verify the fall clearance required beneath the user at the workplace before each occasion of use so that, in the case of a fall, there will be no collision with the ground or other obstacle in the fall path.

WARNING!
The maximum value of deflection of the trolley and displacement of the anchor point that can occur in service is 20 mm. Consider this value in order to evaluate the system fall clearance correctly.

WARNING!
The maximum value of loads that could be transmitted in service from the trolley to the structure in the horizontal and perpendicular directions are 9 KN.

WARNING!
The use of non-compliant PPE can result in severe injuries, including death.
WARNING!
To avoid personal injury, the R27 trolley must be used with a full body safety harness (EN361 approved) and the full body harness is the only acceptable body holding device that can be used in a fall arrest system. With a full body harness can be used also a working harness or chair (EN361 and/or EN813 approved). It must be used also a fall arrest device (EN353/2 approved) and an energy absorber (EN355 approved) that meet also Fall Protection standards as required by the local regulating authority for the country of use. Connectors (hooks, carabiners and D-rings) must be capable of supporting at least 22 kN (5000 lb).

WARNING!
Consult Harken when using this equipment in combination with components or subsystems other than those described in this manual. Altering or intentionally misusing this equipment may cause the system to fail which can cause a fall, which could result in severe injury or death.

Before using the Access Rail system make sure that all the people and objects are clear of the system's moving components.

The R27 trolley is subject to the following limitations:

• The R27 trolley is for the use of one person only and it is a personal issue item.

• In normal use, no more than one person can be connected to a single trolley or a two trolley assembly at one time. Typically, the combined load (including clothing, tools, etc) must not exceed 150 Kg (330lb).

• Do not exceed the maximum number of operators allowed at the same time

• It must be used only by qualified operators trained on the system correct use

• The user must have appropriate training in order to use this product. It is the responsibility of the user of this equipment to assure that they are familiar with these instructions, trained in the correct care and use of the equipment, and be aware of the operating characteristics, application limits, and the consequences of improper use of the equipment. Operators using this equipment must have a minimum training level of: IRATA level 1, SPRAT level 1, or equivalent Work at Height competence, as specified by the local regulating authority.

WARNING!
Do not use the Harken trolley if you aren’t sufficiently trained and experienced in work at height and in the use of the Access Rail system equipment in particular.

• It shall not be used outside its limitations or for any other purposes other than that for which it is intended

• It cannot be used as load lifting system

• It cannot be modified, tampered with or repaired

NOTE!
The fall arrest system must be designed, if applicable, for TOTALLY PREVENTED or CONTAINED falls, so as to prevent the significant mechanical stress due to the risk of falling.
WARNING!
It is essential for safety that the anchor device or anchor point should always be positioned, and the work carried out in such a way, as to minimise both the potential for falls and potential fall distance.

WARNING!
In the fall arrest systems it is necessary to verify the absence of sharp edges, which could trailing or looping lanyards or lifelines. The design of the fall arrest system must avoid pendulum falls, which could cause post-fall oscillation of the body with possible impact against obstacles.

• Load angle limitations: IN9606, IN9606.CLEAR, IN9565, IN9565.CLEAR, IN9608 and IN9608.CLEAR Trolleys - Rail must run within 5° of horizontal, but can be mounted at various angles on the horizontal mounting structure. Harken IN9606, IN9606.CLEAR, IN9565, IN9565.CLEAR, IN9608 and IN9608.CLEAR Trolleys have the ability to handle loading at an angle up to 15° beyond vertical. Loads beyond 15° from vertical will overload trolley. See image at right.

• Load angle limitations: IN10567, IN10567.CLEAR, IN10614, IN10614.CLEAR, IN10615 and IN10615.CLEAR Trolleys - Trolleys with wheeled toggles are designed to run along a surface, mounted so that the toggle overhangs the edge. Ensure that the whole wheel width is in good contact with the surface to which the rail is attached. Ensure that the surface is strong enough to sustain the expected working load and wear.

Mounted in recess: trolleys with wheeled toggle for loading over an edge
Mounted on angle: Trolleys with wheeled toggle face outward
USE

Inspection before each use
Always perform inspection before using the trolley. See paragraph “Preliminary and periodical checks”

Connections to trolley
• The single trolley (IN9565, IN9565.CLEAR, IN9608, IN9608.CLEAR, IN10614, IN10614.CLEAR, IN10615 and IN10615.CLEAR) is used for fall arrest.

• The single trolley (IN9565, IN9565.CLEAR, IN9608, IN9608.CLEAR, IN10614, IN10614.CLEAR, IN10615 and IN10615.CLEAR) is also designed for use as a mobile anchor point for restraint.

• The double-trolley assembly (IN9606, IN9606.CLEAR, IN10567 and IN10567.CLEAR) is designed for rope access (human suspension). The double trolley assembly is designed for single person use. It consists of a fall-arrest trolley (1) joined to the working trolley (2), using a permanent coupler.

1. Fall arrest trolley
   Used with full-body safety harness

2. Working Trolley
   Used for suspension with working harness or chair

Rail
Pinstop
Coupler
Stainless steel shackle
• Additional option
  Add an optional IN9565, IN9565.CLEAR
  IN10614, IN10614.CLEAR pinstop
trolley or IN9608, IN9608.CLEAR
  IN9608, IN9608.CLEAR trolley with
coupler to work as your tool service carrier

1 - Fall arrest trolley
2 - Working trolley
3 - Tool service trolley

Connection requirements
When using a hook with positive locking mechanism to connect to trolley shackle, ensure roll-out cannot
occur. Roll-out occurs when interference between hook and mating connector causes hook gate to
unintentionally open and release.

Use self-locking snap hooks and carabiners to reduce possibility of roll-out. Hooks or connectors must
completely close over attachment object.

Do not attach a connector that will impact the side of the trolley when in use.

Loading trolley assembly on rail

[WARNING!]
Carefully align trolley assembly with rail and gently roll into place. If balls are lost, trolley
assembly must not be used. Trolley with missing balls may come off rail resulting in a fall, severe
injury or death. Contact an official Harken R27 Trolley inspector or the nearest official Harken
Service Center to restore the correct functionality of the product.

When removing the trolley from the rail, use the foam ball keeper sent with the original packaging to avoid
losing balls bearings.
Operating pinstop
Rotate the lever upwards to disengage the pinstop. To lock it out continue rotating until the lever is on its back. Trolley will roll freely. To secure trolley, position pinstop over rail hole and rotate lever so pin drops into hole.

WARNING!
When using the trolley with pinstop on a wall mounted rail not properly horizontal installed and the pinstop is in the unlocked position, pay attention because in the event of a fall the trolley will slide without impediments.

Using trolley without pinstop (IN10615, IN10615.CLEAR, IN9608, IN9608.CLEAR, IN10567, IN10567.CLEAR)

WARNING!
When using the IN10615, IN10615.CLEAR, IN9608, IN9608.CLEAR, IN10567, IN10567.CLEAR trolley on a wall mounted rail not properly horizontal installed, pay attention because in the event of a fall the trolley will slide without impediments.

Using removable endstop
If using IN1642.CLEAR removable endstop, always be sure the pinstop is inserted into one of the stop holes in the rail. The bottom of the knob must be nearly flush with the body of the endstop.

WARNING!
Always be sure the pinstop is securely fastened to a pinstop hole in the rail. Failure to seat in a pinstop hole can result in a fall which could result in severe injury or death.

Rescue plan
When using this equipment, the employer must have a rescue plan and the means at hand to implement it. The plan must be communicated to authorized persons and rescuers. The system and trolley integrity MUST be assessed prior to any rescue for the safest and quickest recovery.
PRELIMINARY AND PERIODICAL CHECKS

After a fall, replacing equipment

WARNING!
Any trolley which has been subjected to the forces of arresting a fall must be immediately withdrawn from use and not used again until confirmed in writing by and authorized Harken R27 Inspector that it is acceptable for use.

PRELIMINARY AND PERIODICAL CHECKS

Before each use
Before using the R27 trolley, check its condition and visually check each component per manufacture’s instructions. The following are Harken specific inspection procedures:

A - Inspect pinstop
Inspect pinstop for spring degradation, cracks or wear that may affect locking strength and operation. Check drive pin holding plastic latch to post to make sure it is secure.

B - Inspect pivot pin retaining screws
Inspect pivot pin retaining screws in trolleys and coupler. Make sure coupler/pivot pin retaining screws have not loosened and are tightened securely in coupler.

CORRECT

INCORRECT
WARNING!
If screws loosen, shackle pivot pin can move, allowing shackle to suddenly release from trolley resulting in a fall, severe injury or death.

INCORRECT

C - Inspect shackle
Inspect shackles for signs of corrosion, cracks, or elongation. If damaged, do not use. Damaged shackles can indicate that trolley was overloaded. Return complete trolley assembly to one of the authorized Harken Service Centers.

Inspect ball bearings
Every time that the trolley assembly is removed from rail, make sure each trolley contains all 60 balls. Do not load trolley onto rail and use trolley assembly if balls are missing.

WARNING!
Do not use trolleys if balls are missing. Trolleys with missing balls can come off rail, resulting in a fall, severe injury or death.
LIFESPAN

WARNING!
At the end of the inspection, in case of identified faults, damaged parts, wear, corrosion, deformation, faults that are detected during the compulsory periodical inspection, a fall with consequent stress for the trolley has occurred, or doubts about the condition of the product, DO NOT USE the trolley and contact an authorized Harken R27 Trolley Inspector or an authorized Harken Service Center.

NOTE!
Check the legibility of the R27 trolley markings

Annual check
The R27 trolley must be inspected thoroughly at least once every 12 months for Personal Protective Equipment Regulation specification, or 6 months for Human Suspension.

WARNING!
The regular periodic examinations are needed procedures for the safety of users because the safety of users depends upon the continued efficacy and durability of the equipment.

Contact an authorized Harken R27 Trolley Inspector for the mandatory inspection. The register of the authorized Harken Industrial product inspector is available on the web site: http://www.harkenindustrial.com

Do not use the R27 trolley without performing the mandatory inspection. The inspection performed by an authorized Harken R27 Trolley Inspector must be recorded in the Equipment Record of this Manual and the Inspection report signed by the Inspector must be stored by the trolley owner.

It is recommended that the trolley is marked with the date of the next or last inspection.

WARNING!
DO NOT USE the R27 trolley if:
• you detect damage, wear, corrosion or deformation on the trolley
• faults are detected during the compulsory periodical inspection
• a fall with consequent stress for the trolley has occurred

LIFESPAN

The R27 trolley has a lifespan of 30 years from the manufacturing date, in the absence of causes which could determine its decommissioning and on condition that all the periodic inspections required and any necessary maintenance are carried out, with recording of their results on the Inspection/Repair history record.

The manufacturing date is indicated in the Serial Number of the trolley written in the trolley labelling.
PACKAGING, STORAGE, TRANSPORTATION

Every trolley is supplied by Harken in its original packaging in order to prevent the development of dust and dirt and potential damages.

Check the packaging integrity and if it is damaged, before using the trolley proceed with an accurate inspection.

During the storage and the transportation use the original packaging.

Store the trolley in a dry, ventilated, low humidity and not salt place in order to avoid corrosion and protect the product against impacts, chemical reagents or possible damages which could reduce the lifespan or may affect the performance of the trolley.

For the trolleys IN9606, IN9606.CLEAR, IN10567 and IN10567.CLEAR, which are composed of two trolleys, the year of manufacturing of the oldest trolley is the reference year of manufacturing.

Ex: S/N 2019038–009

Manufacturing year: 2019

Manufacturing day of the year: 38th day of the year (= February 7)

Number of the trolley manufactured that day: 9th trolley of the day

For the trolleys IN9606, IN9606.CLEAR, IN10567 and IN10567.CLEAR, which are composed of two trolleys, the year of manufacturing of the oldest trolley is the reference year of manufacturing.

PACKAGING, STORAGE, TRANSPORTATION

Every trolley is supplied by Harken in its original packaging in order to prevent the development of dust and dirt and potential damages.

Check the packaging integrity and if it is damaged, before using the trolley proceed with an accurate inspection.

During the storage and the transportation use the original packaging.

Store the trolley in a dry, ventilated, low humidity and not salt place in order to avoid corrosion and protect the product against impacts, chemical reagents or possible damages which could reduce the lifespan or may affect the performance of the trolley.
MAINTENANCE

In order to keep the R27 trolley in proper working conditions flush ball with fresh water.

It is important to clean the trolley from dirt, grease and anything that can prevent the trolley from sliding correctly on the rail. To clean the trolley use fresh water.

When the trolley and ball are dry, apply McLube® Sailkote™ high performance dry lubricant to improve the ease of movement of the trolley along the rail.

(McLube is a registered trademark of McGee Industries, Inc.)
(Sailkote is a trademark of McLube, a division of McGee Industries, Inc.)

CERTIFICATIONS

The R27 trolleys (IN9565, IN9565.CLEAR, IN9608, IN9608.CLEAR, IN10614, IN10614.CLEAR, IN10615, IN10615.CLEAR, IN9606, IN9606.CLEAR, IN10567 and IN10567.CLEAR) are EU certified according to the Regulation (UE) 2016/425 and the EN795:2012 Type B.

The EU type examination certificate and the production control phase has been carried out by Dolomiticert S.C.A.R.L. EU notified body (N.B. 2008) (Dolomiticert S.C.A.R.L., Villanova zona industriale 7/A, 32013 Longarone (BL) - Italy - Tel +39 0437 573407.

The EU Declaration of Conformity is available on the website http://www.harkenindustrial.com

LABELING

Shown below the labeling on the trolley:

MAINTENANCE - CERTIFICATIONS - LABELING - WARRANTY

WARRANTY

EU DECLARATION OF CONFORMITY

The undersigned

Manufacturer
Harken Inc. USA
One Harken Way
N15W24983 Bluemound Road,
Pewaukee, Wisconsin 53072 USA
Telephone: (262) 691-3320 • Fax: (262) 701-5780
Web: www.harken.com • www.harkenindustrial.com
Email: harken@harken.com

Authorised EU Representative established in the Community
Harken Italy S.p.A.
Via Marco Biagi 14, 22070 Limido Comasco (CO), Italy
Tel +39.031.3523511 • Fax +39.031.3520031
Web: www.harken.it
Email: info@harken.it

Hereby declares that this product:

R27 Trolley
Model
IN9565, IN9565.CLEAR, IN9606, IN9606.CLEAR, IN9608, IN9608.CLEAR
IN10567, IN10567.CLEAR, IN10614, IN10614.CLEAR, IN10615, IN10615.CLEAR

Is in conformity with the essential requirements defined by the following directives:


→ Standard EN795:2012 Type B Protection against falls from a height – Anchor Devices

and is identical to the product which is the subject of the EU Type Certificate N° EC 19-0331

issued by the Notified Body:

Dolomiticert s.c.a.r.l. – Villanova Zona Industriale 7/A, 32013 Longarone (BL) – Italy

and is subjected to the procedures set out in Annex VII of Regulation (EU) 2016:425 under the supervision of the Notified Body:

Dolomiticert s.c.a.r.l. – Villanova Zona Industriale 7/A, 32013 Longarone (BL) – Italy

Limido Comasco 22/11/2019

(Place) (Date)

HARKEN ITALY S.p.A.

Legal representative
A record must be kept for each trolley with the following details (see example record log below). It is the responsibility of the user organization to provide the record and to enter onto the record the details required and to store the trolley Inspection report of the mandatory inspection signed by an authorized Harken R27 Inspector.

### EQUIPMENT RECORD

<table>
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<th>MODEL / TYPE</th>
<th>DESCRIPTION</th>
<th>SERIAL NUMBER</th>
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<td>HARKEN</td>
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<tr>
<th>MANUFACTURER</th>
<th>ADDRESS</th>
<th>TEL / FAX / EMAIL / WEBSITE</th>
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<tbody>
<tr>
<td>HARKEN</td>
<td>N15W24983 BLUERMOUND RD., PEWAUKEE, WI USA</td>
<td>(262) 691-3320 / (262) 701-5780 <a href="mailto:HARKEN@HARKEN.COM">HARKEN@HARKEN.COM</a> <a href="http://WWW.HARKEN.COM">WWW.HARKEN.COM</a></td>
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<tr>
<th>YEAR OF MANUFACTURE</th>
<th>PURCHASE DATE</th>
<th>DATE FIRST PUT INTO USE</th>
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**OTHER IMPORTANT INFORMATION (I.E. DOCUMENT NUMBER):**

### INSPECTION / REPAIR HISTORY

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<th>Reason for Entry (Periodic exam or repair)</th>
<th>Defect notes, repairs carried out and other important information</th>
<th>Name and signature of competent person</th>
<th>Date of next periodic examination</th>
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## INSPECTION / REPAIR HISTORY

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