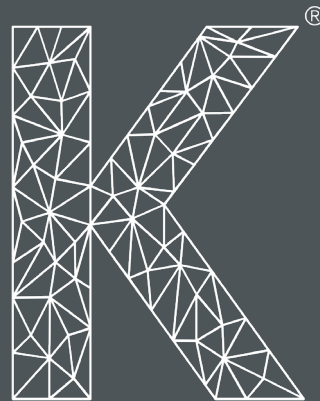


Serie

R-450

R-450N INOX



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Manual de instrucciones

Rail mecánico R-450N INOX

Instruction manual

Mechanical rail R-450N STAINLESS STEEL

Manuel d'utilisation

Ancrage mécanique R-450N INOX

ESPAÑOL

ENGLISH

FRANÇAIS



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R-450 Series RAIL 450N STAINLESS STEEL

INSTRUCTIONS MANUAL



Please read the instruction manual before usage and keep them for future reference.





OPERATION AND HANDLING
OF RAIL 450N INOX

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OPERATION AND HANDLING OF RAIL 450N INOX

1. INTRODUCTION

1.1. Prologue

All the information detailed regarding product treatment, disinfection and maintenance is conveyed in line with our current knowledge and experience.

We reserve the right to make technical modifications to the rail to improve the product.

The **R-450N INOX (Stainless Steel)** rail has been tested in line with the UNE-EN 1789 standard.

1.2. Responsibility and guarantee

The rail should be checked at the time of delivery to the rescue organization. All its functions should be explained in detail. The rescue organization is responsible for training all its employees in the correct use of the rail.

The warranty is valid for two years following the date indicated on the purchase invoice.

The guarantee does not cover breakdown if this is a consequence of incorrect installation, inappropriate treatment or inadequate use of the product. Repairs must be carried out by a technical service company approved by Kartsana or its respective representative.

The manufacturer will not accept responsibility for any anomaly caused to the rail by using products that have not originated from Kartsana.

1.3. Specifications

SPECIFICATION	R-450N INOX
Maximum unassisted load:	300Kg
Standards	UNE-EN-1865-5 EN-1789+A1
Total length	1860mm
Total Width	380mm
Weight	8,5Kg
Loading Height	Depends on the used stretcher
Recommended operatives required to load / unload an occupied stretcher	1 operative, or 2 if the stretcher were occupied by a larger sized patient.
Compatible stretchers	TG-880 (Jupiter series)

1.4. Attention

Throughout this manual, you will find 3 types of ISO 20417 signs. For **warning**, we have ISO 7010-W001. **Prohibition** is indicated by ISO 7010-P001 and **obligation** by ISO 7010-M001.



With these signs we inform you about important safety measures for the correct use of the stretcher and to avoid possible accidents.

Warnings alert the reader to situations which, if not avoided, could lead to death or serious injury. On the other hand, the prohibitions indicate actions that must not be carried out under any circumstances and the obligations, those measures and/or actions that must be carried out to use the product properly and maintain safe functionality.

1.5. Summary of safety precautions

Read carefully and strictly follow the warnings and cautions listed on these pages. Service only by qualified personnel.



WARNINGS:

- Improper usage of the stretcher can cause injury to the patient or operator. Operate the stretcher only as described in this manual.
- Do not modify the rail or any components of the rail. Modifying the product can cause unpredictable operation resulting in injury to the patient or operator. Modifying the product also voids its warranty.
- This rail must operate with a compatible stretcher.
- Have the vehicle safety rail compatible installed by a certified mechanic, following instructions in this manual. Improper rail installation can cause injury to the patient or operator and/or damage to the stretcher
- Practice changing height positions and loading the stretcher until operation of the product is fully understood. Improper use can cause injury.
- Do not allow untrained assistants to assist in the operation of the stretcher. Untrained technicians/assistants can cause injury to the patient or themselves.
- Do not ride on the base of the rail. Damage to the product could occur, resulting in injury to the patient or operator.
- Grasping the stretcher improperly can cause injury. Keep hands, fingers and feet away from moving parts. To avoid injury, use extreme caution when placing your hands and feet near the base tubes while raising and lowering the stretcher.
- Always use all restraint straps to secure the patient on the stretcher. An unrestrained patient may fall from the stretcher and be injured.
- The R-450 N IS designed to be compatible with TG-880 stretchers and is operator responsibility that these products work together.
- Two operators must be present when the stretcher is occupied.
- Operators must be able to lift the total weight of the patient, stretcher and any items on the stretcher.
- When cleaning, use any appropriate personal safety equipment (goggles, respirator, etc.) to avoid the risk of inhaling contagion.
- Some cleaning products are corrosive in nature and may cause damage to the product if used improperly. If the products described above are used to clean Kartsana equipment, measures must be taken to ensure the stretchers are



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OPERATION AND HANDLING OF RAIL 450N INOX

wiped with clean water and thoroughly dried following cleaning. Failure to properly rinse and dry the stretchers will leave a corrosive residue on the surface of the stretchers, possibly causing premature corrosion of critical components.

- Failure to properly clean or dispose of contaminated mattress or other stretcher components will increase the risk of bloodborne pathogens and may cause injury to the patient or operator.



CAUTIONS:

- Changes or modifications to the unit not expressly approved by Kartsana could void the user's authority to operate the system.

- Installation of the safety hook should be done by a certified mechanic familiar with ambulance vehicle construction. Consult the vehicle manufacturer before installing the safety hook and be sure that the installation of the safety hook does not damage or interfere with the brake lines, oxygen lines, fuel lines, fuel tank or electrical wiring of the vehicle.

- Before operating the stretcher, clear any obstacles that may interfere and cause injury to the operator or patient.

- When unloading the stretcher from the patient compartment, ensure that the caster wheels are safely set on the ground or damage to the product may occur.

- Ensure that the restraints are not entangled in the base frame when raising and lowering the stretcher.

- Do not steam clean or ultrasonically clean the unit.

- Maximum water temperature should not exceed 80°C.

- Failure to comply with these instructions may invalidate any/all warranties.

- For additional maintenance information, see the preventative maintenance information.

- Improper maintenance can cause injury or damage to the product. Maintain the stretcher as described in this manual. Use only Kartsana approved parts and maintenance procedures. Using unapproved parts and procedures could cause unpredictable operation and/or injury and will void the product warranty

- Failure to use authorized parts, lubricants, etc. could cause damage to the stretcher and will void the warranty of the product.



NOTES:

- Loose items or debris on the patient compartment floor can interfere with the operation of the safety hook and stretcher fastener. Keep the patient compartment floor clear

- This manual should be considered a permanent part of the rail and should remain with the product even if the stretcher is subsequently sold.

- Kartsana continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your stretcher and this manual

- Kartsana recommends that, prior to installation, the certified mechanic plan the placement of the safety hook in the rear of the vehicle.



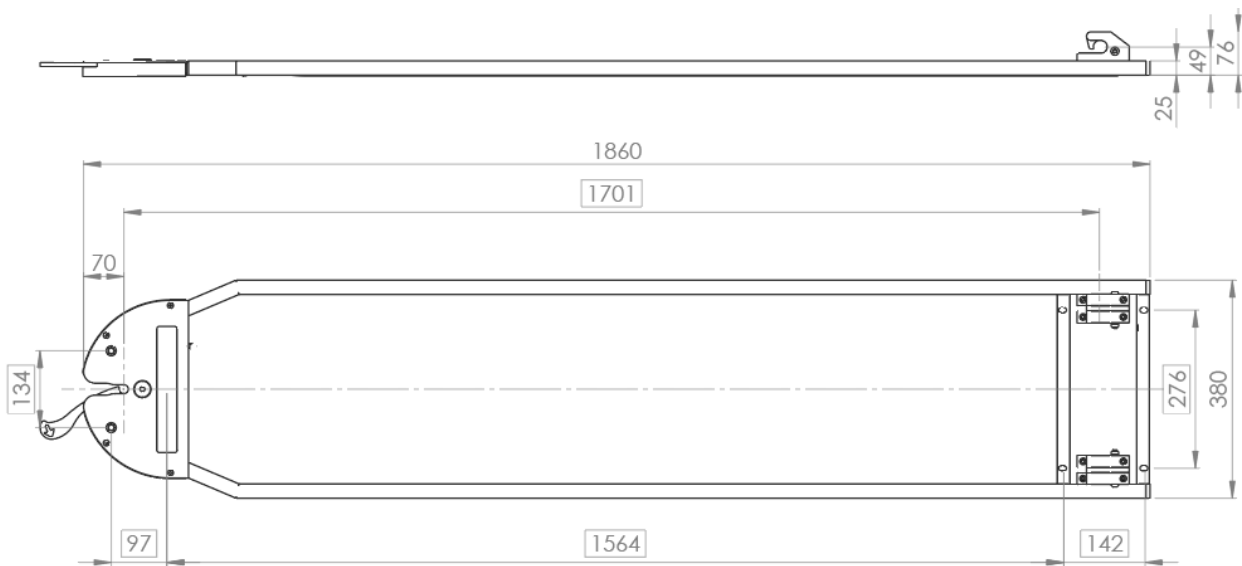
2. INSTRUCTION MANUAL

2.1. Technical characteristics

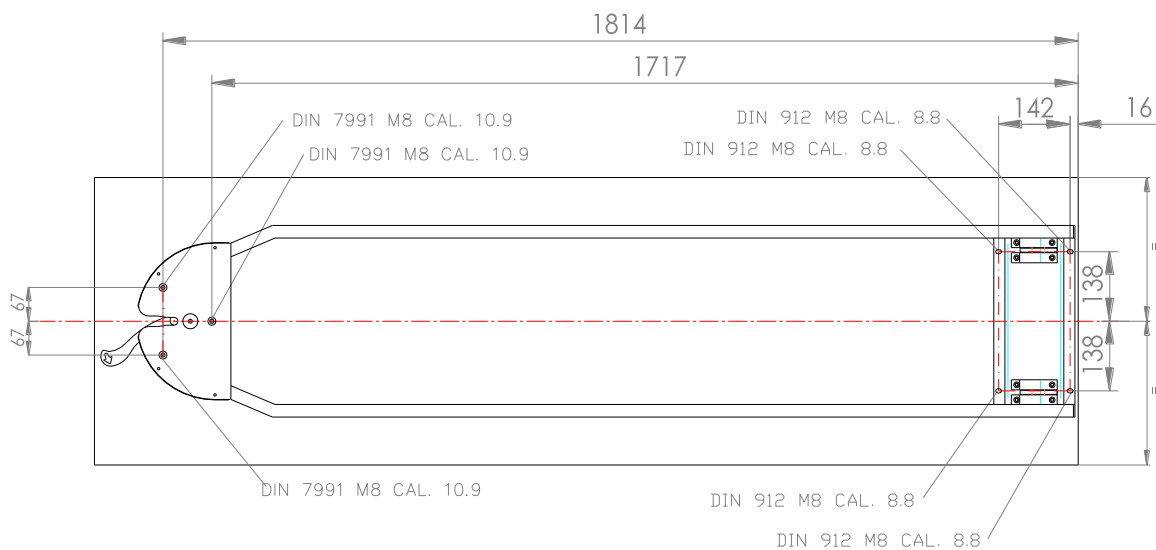
The R-450 N anchoring rail has been designed for the optimum securing of Kartsana models TG-880 series.

Weight of rail: 8,5 Kg.

Rail measurements (in mm.) as per diagram below:



The position of the drills and the screws of fixation in the ambulance are the following ones:





2.2. Rail operation and handling

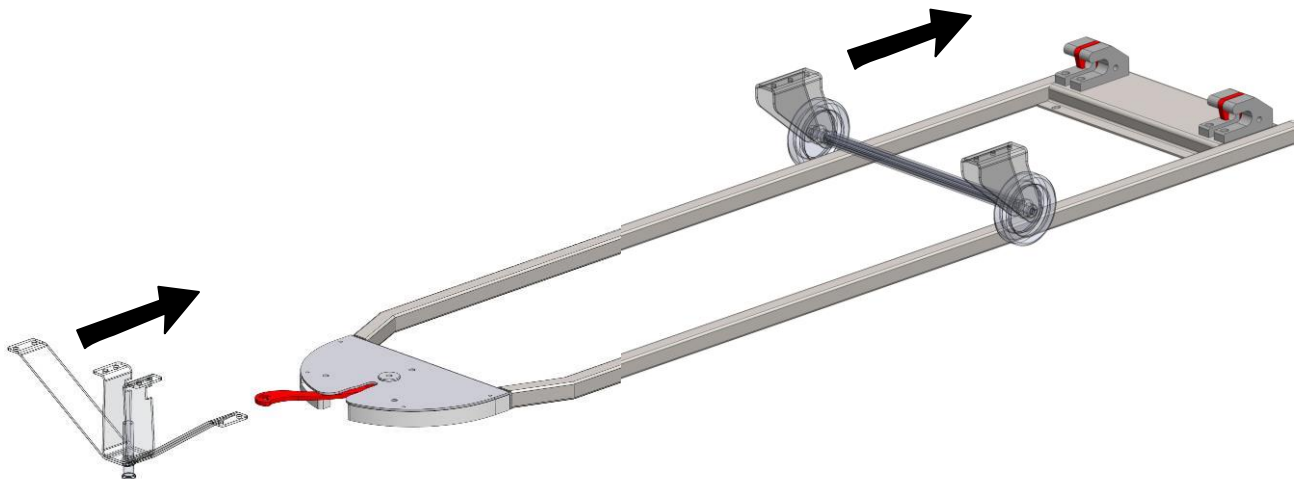
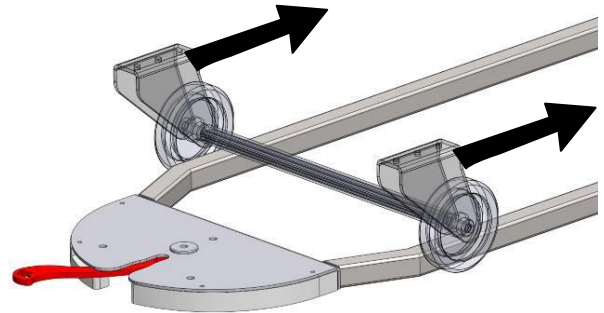


To avoid potential injury to extremities or other body parts, do not place these in the way of the rail's moving parts.

Note: The back part of the rail corresponds to the section where the rail activation mechanism is located.

2.2.1. Immobilizing the stretcher on the rail

- Position the stretcher in front of the rail.
- Position the forward wheels of the stretcher at the base of the rail. Slide the stretcher onto the rail, making sure the forward wheels are guided by the rail guides (see diagram below) until the front wheels are resting on the border of the base of the rail.
- Release the stretcher's front wheels and slide it onto the rail until the back leg has also come to rest against the border at the base of the rail.
- Release the back leg to be able to finish sliding the whole stretcher onto the rail.



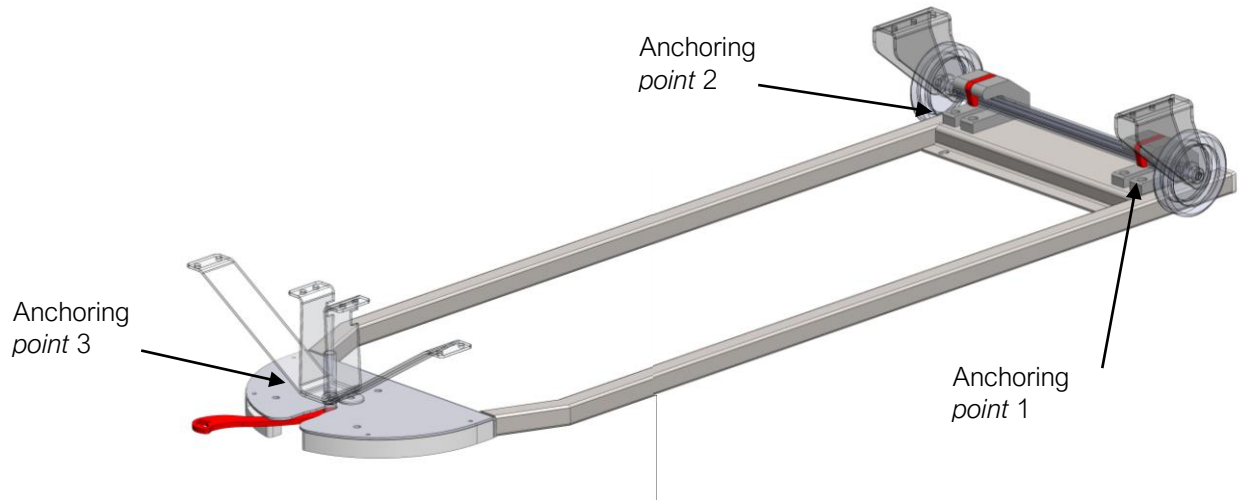


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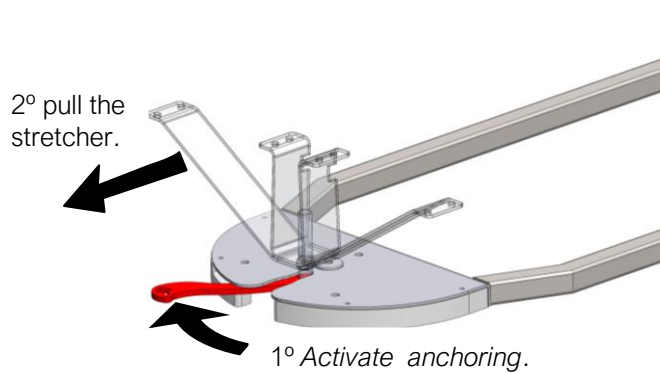
- Make sure that the stretcher is properly immobilized on the rail at the three anchoring points.



When releasing the stretcher legs on installing the stretcher on the rail, hold the stretcher firmly to prevent it falling.

2.2.2. Releasing the stretcher from the rail

- Activate anchoring point number 3, as shown in the diagram below.



- Pull the stretcher away from the rail to extract it.
- Release the back leg and front leg respectively before they come to border at the base of the rail to prevent the stretcher falling to the ground with the legs still folded.

3. DISINFECTION

To disinfect the rail, use products that will not cause any damage to the material of the surface area to be disinfected, using a cloth, sponge or similar. If the area to be disinfected is oiled, lubricated it once again once disinfection has been completed.

Please use disinfectants in accordance with the manufacturer's instructions.

The manufacturer will not accept responsibility for any damage or anomaly caused by using a cleaning product that may damage the surface material of the rail.

For reasons of hygiene and to safeguard the product's components, the manufacturer recommends that the product is disinfected after every use.

4. PRODUCT CARE & MAINTENANCE

Contact Information

For any service requests or consultations regarding the use, maintenance, or installation of any KARTSANA product, please contact KARTSANA Customer Care Service.

- Telephone: +34 93 715 86 72
- E-mail: info@kartsana.com
- Narcís Monturiol, 34
08192 - Sant Quirze del Vallès
Barcelona (Spain)

Maintenance

Check and oil the moving parts and areas subject to friction every two months.

It will also be necessary to check the parts used for immobilization purposes. We recommend servicing by a specialist from our company every six months during which a general inspection will be carried out and any parts which may have deteriorated or worn out through use can be replaced.

Transport & Storage

Before transporting the device, make sure it has been packed adequately and secured to avoid damage during transport.

Keep the original packaging for other eventual transport. Any damage caused to the device during transport is not covered by the warranty. Repairs and substitutions of damaged parts are at the customer's charge.

The device must be stored in a dry place.

During storage, do not put any heavy object on top of the product. It should not be used as support for any type of object.

Disposal

When the product is no longer in working condition, if it has not been contaminated by any corrosive or contagious agent, it can be disposed of as any metal-based waste, following the local current regulations regarding metal-based waste disposal.

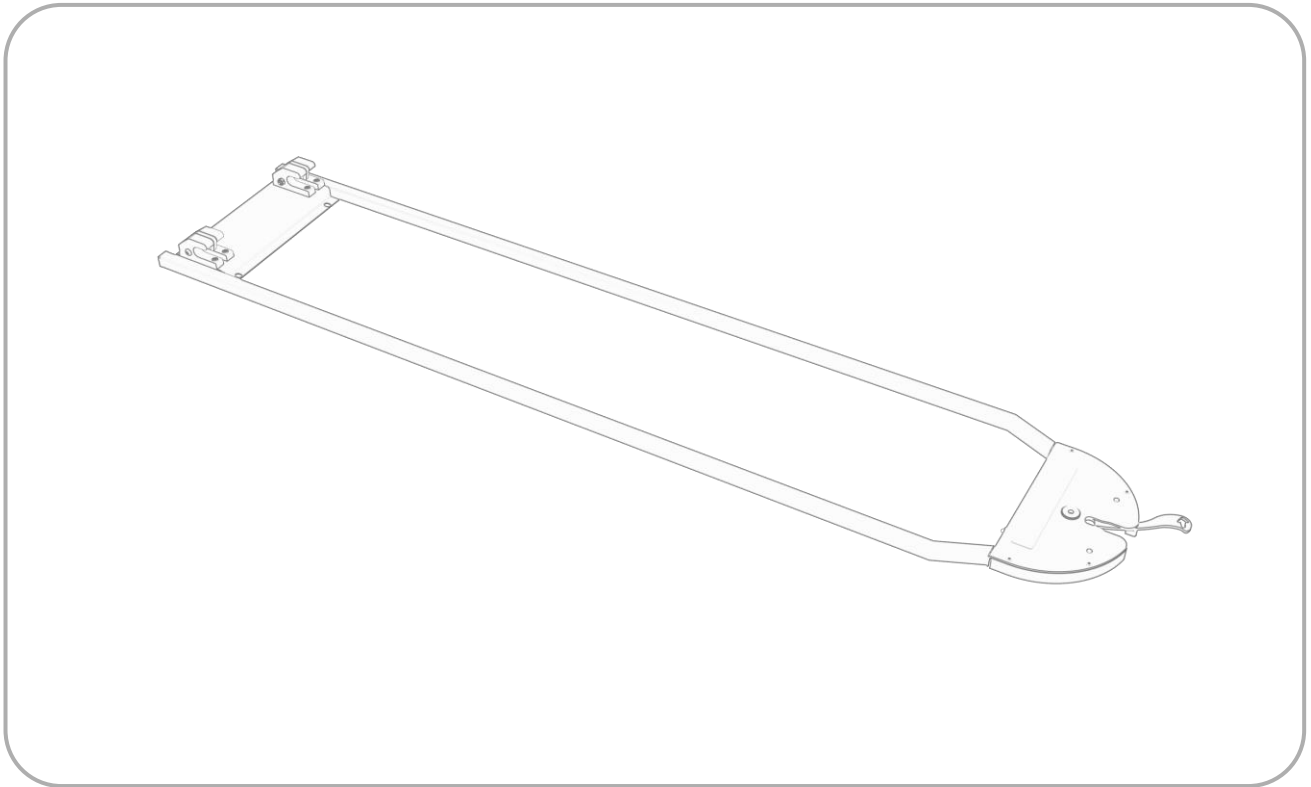


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5. SPARE PARTS



For spare parts for this product, please visit the following link:

https://www.kartsana.com/global/Spare_parts_R450N_INOX.pdf

If you have any questions or queries, please contact our technical service.



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Please contact our technical service for
any questions or queries you may have.

