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USER INSTRUCTION MANUAL  
**IRSQ RECOVERY STRETCHER**

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODEL:

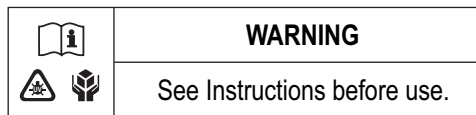
AFX205001

Please read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the user's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

**Note:** The user is advised to keep this user instructions document for the life of the product.

## 1. GENERAL INFORMATION

- **Aim and Contents:** The aim of this manual is to supply all the information necessary so that the client, apart from attaining an adequate use of the Product, will also be capable of using the instrument in the most autonomous and secure way possible. This includes information regarding technical aspects, functioning, maintenance, spare parts and safety.
- **Conservation of the instruction manual:** The instruction and maintenance manual must be kept with the product, inside the specially provided bag and above all, away from any substances or liquids which could compromise perfect legibility.
- Symbol Used



- **Service Requests:** For any information regarding the interpretation of the instructions, use and installation, please contact : [www.kstrong.com](http://www.kstrong.com)
- **Labels:** The serial number can be found on each Product and/or packaging and must not be removed or covered. In order to facilitate assistance please indicate the lot number or the serial number on the label.

## 2. GENERAL WARNINGS

- Before using the Product the user must carefully read & understand this manual paying attention to correct safety precautions, the procedure to be for installation and correct usage.
- Regularly check the Product. Carry out the prescribed maintenance in order to keep the Product in good condition and to guarantee correct functioning and a long life.
- In the case of any abnormalities or damage to the Product, which could jeopardize the functioning and safety, the Product must be immediately removed from service.
- Do not alter or modify the Product in any way, such interference could cause malfunctions and injury to the patient and/or rescuer.
- The Product must not be tampered in any way, in such cases all responsibility will be denied for any malfunctions or eventual injuries caused by the Product itself.
- Ensure that all the necessary precautions are taken in order to avoid hazards that can arise as the result of contact with blood or body fluids.
- Handle with care.
- **Specific Warnings:**
  - The product must be used by trained personnel only.
  - The device is NOT designed as a spinal immobilization device. If a spinal injury is suspected, secure the patient to an approved spinal immobilization device prior to placing him/her in the stretcher.
  - Never suspend the stretcher by a single grommet. Use the slings and webbing in the manner for which they are provided.
- **Contraindications and Side Effects:** The Product, if used by personnel who are familiar with First Aid Procedures, does not present particular contraindications or side effects.

**NOTE:** The device should be stored in the back pack, as prolonged exposure to sunlight (UV rays) can damage all plastics. ALWAYS use the tag line when hoisting the stretcher by helicopter because without it, the stretcher will spin around.

### 3. DESCRIPTION OF PRODUCT

- **Intended Use:**
  - The back packable KStrong IRSQ Recovery stretcher has been configured as an extremely flexible rescue system, useable in any context where patient transport is needed and particularly useful in morphologic and difficult climatic situations where a fast recovery is requested.
  - This stretcher can be anchored with the help of the clips fixed to the belts, to the helicopter with the dedicated rope.
  - For lifting the stretcher (or any other type of stretcher) a "tag line" must be used to avoid rotating movements.
  - The device may be used as structure for lifting other equipment.
  - The system is compatible with spinal boards, scoop stretchers, spinal supports and many other immobilization devices.
- **Model:** Back Packable IRSQ Recovery Stretcher AFX205001
- **Main Components**
  - Loading surface
  - Metal eyelets
  - Polyester rope
  - Handles
  - Lifting belts
- **Environmental Conditions**
  - Temperature of use: -10°C to +40°C
  - Relative humidity: -5% to 85%
- **Technical Data**

<b>MODEL No. AFX205001</b>	
Maximum load	200 Kg
Weight of device	5.5 Kg
Total weight with bag and belts	8 Kg
<b>COMPONENTS (Loading surface)</b>	
Length	2440 mm
Width	918 mm
Material	High Strength Polymer
<b>Carabiner (Material)</b>	Alloy Steel
<b>Rope</b>	Kernmantle
Length	9000 mm
Diameter	Dia 10 mm
<b>Lifting belts</b>	
Length	Feet zone 2030mm/Head zone 1930mm
Width	Feet zone 5mm/Head zone 5mm
Maximum load belts	3000Kg
Maximum load Stitching	2000Kg
<b>Handles</b>	
Material	Nylon
Handles on every longitudinal side	2

### 4. OPERATING INSTRUCTIONS FOR AFX205001

- **Transportation and Storage**
  - Before transporting the Product, make sure that it is correctly packaged ensuring that there are no risks of shocks or falls during the transport itself.
  - Make sure the application of the supplies transporting it.
  - Keep the original packaging for any eventual further transport.

- Damage to the Product caused during transport and handling is not covered under the guarantee.
- Repairs or replacements of the damaged parts are the responsibility of the client.
- The Product must be stored in a dry place free from humidity.
- After use, replace the stretcher inside its container, in order to prevent it from potential decays caused by elevated exposure to ultra-violet rays.
- **Preparation:** On receiving the product:
  - Remove the packaging and display the material so that all is visible.
  - Check that all the components/pieces on the accompanying list are present.
- **Functioning:** The use of the device must take place as described hereafter:
  - **To unroll the stretcher and lay flat -**
    - Remove the device from pack and place on the ground.
    - Unfasten retainer strap.
    - Step on foot end of the stretcher, and unroll completely to opposite end.
    - Before starting the rescue operation, back roll the device. Repeat with opposite end of stretcher. The device will now lay flat.

**NOTE:** The Product must be checked before every use so as to reveal any working abnormalities and/or damage caused by transport and/or storage.

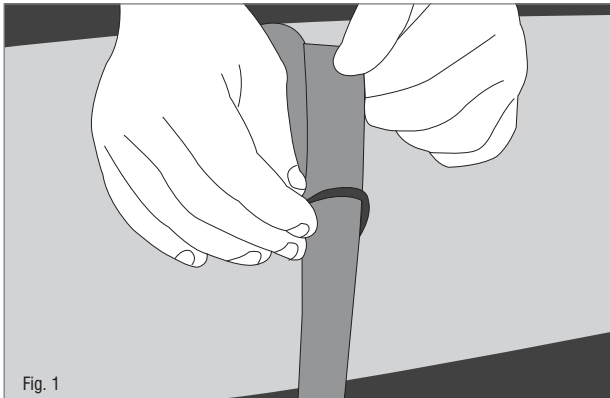


Fig. 1

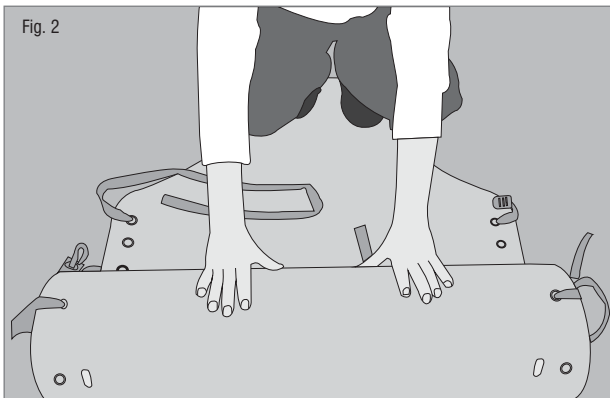
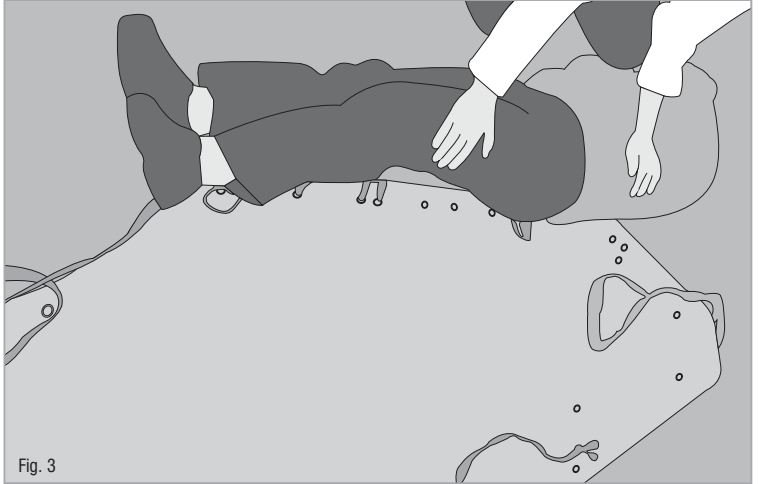
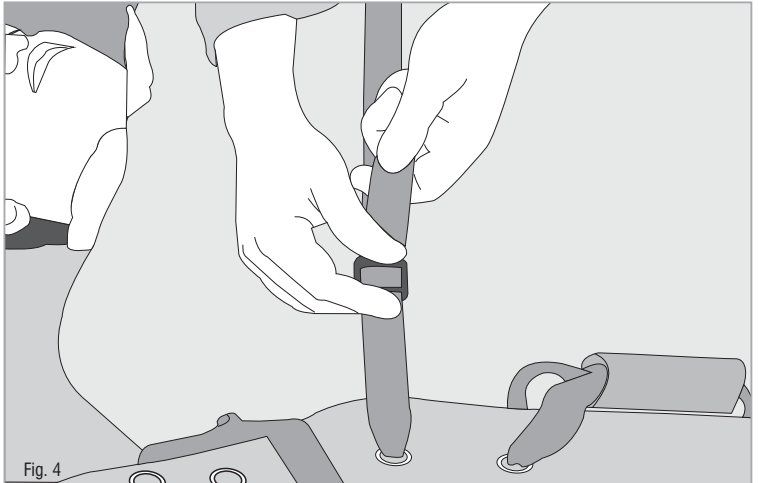
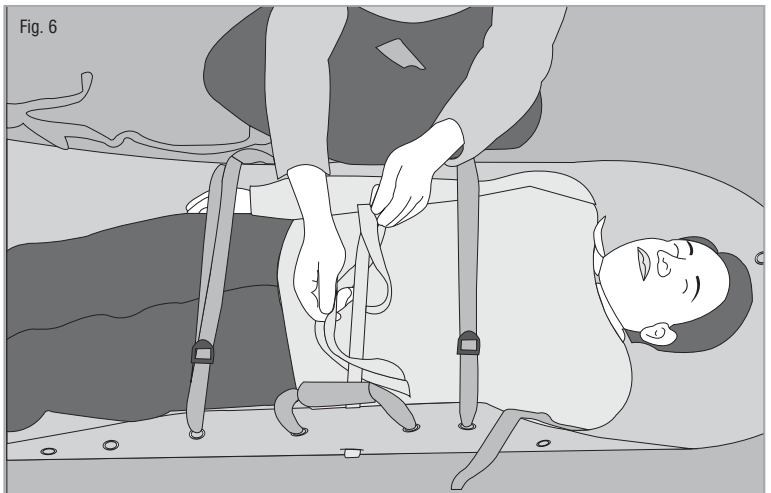
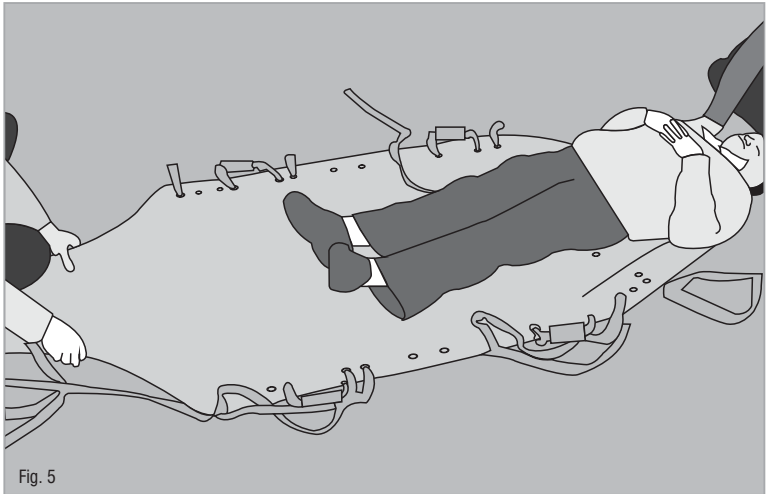


Fig. 2

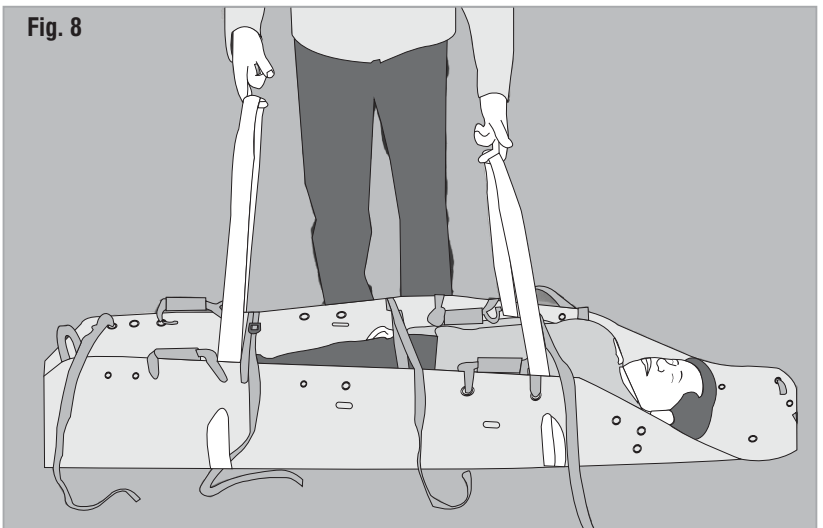
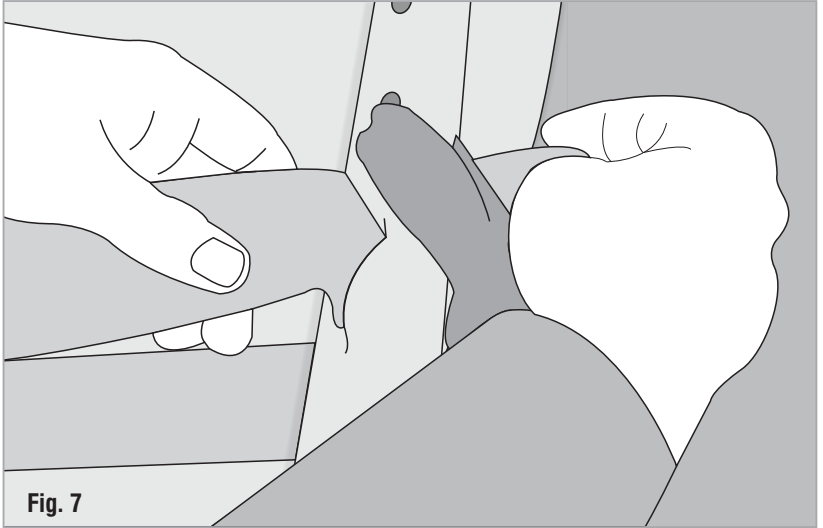
- **How to place a patient**
  - **LOG ROLL Method (Rolling)**
    - Place the device next to patient. Ensure head end of stretcher identified by different color of the holding strap is adjacent to head of patient. Place cross straps under the stretcher.
    - Log roll patient and slide the stretcher under the patient as far as possible. Gently roll patient down on to the stretcher.
    - Slide patient to centre of the stretcher. Be sure to keep spinal column as straight as possible.
    - Pull straps out from under the stretcher and fasten to buckles.

**SLIDE Method (Sliding)**

- Position foot end of the stretcher at the head of patient.
  - Have one rescuer straddle the stretcher and support the patients head, neck and shoulders.
  - Grasp foot straps of the stretcher and slide it under the patient.
  - Lay the patient at the centre of the stretcher and fasten straps to buckles.
- **How to position and fasten straps to buckles**
- Unroll the stretcher and lay flat.
  - Lift sides of the stretcher and fasten the four cross straps to buckles directly opposite the straps.
  - At the end of the stretcher there will be a few unused metal rings, which can be used for fixing the belts for immobilization. (See fig. 6).
  - Buckle the straps of the stretcher in proper manner.



- **Lifting operations and positioning on the ground**
- **Horizontal lift:** Two nylon belts are used for anchoring and transport of the stretcher. The belt to be used for the upper part (Head) is about 10 cm shorter than the one used for the lower part (feet).
  - Insert one end of head strap through lift slot at the head end of stretcher.
  - Bring the straps under stretcher and through lift, slot on opposite side of stretcher.
  - Make sure the two ends of the belt are equally long and repeat the operation at the other end of the stretcher. (See fig. 8)



- Make sure the four ends of the two belts are equally long & fix them to connector. (See fig. 9)
- **Vertical Lift:** Use the supplied rope length of 9 meter with figure of 8 knot in the centre

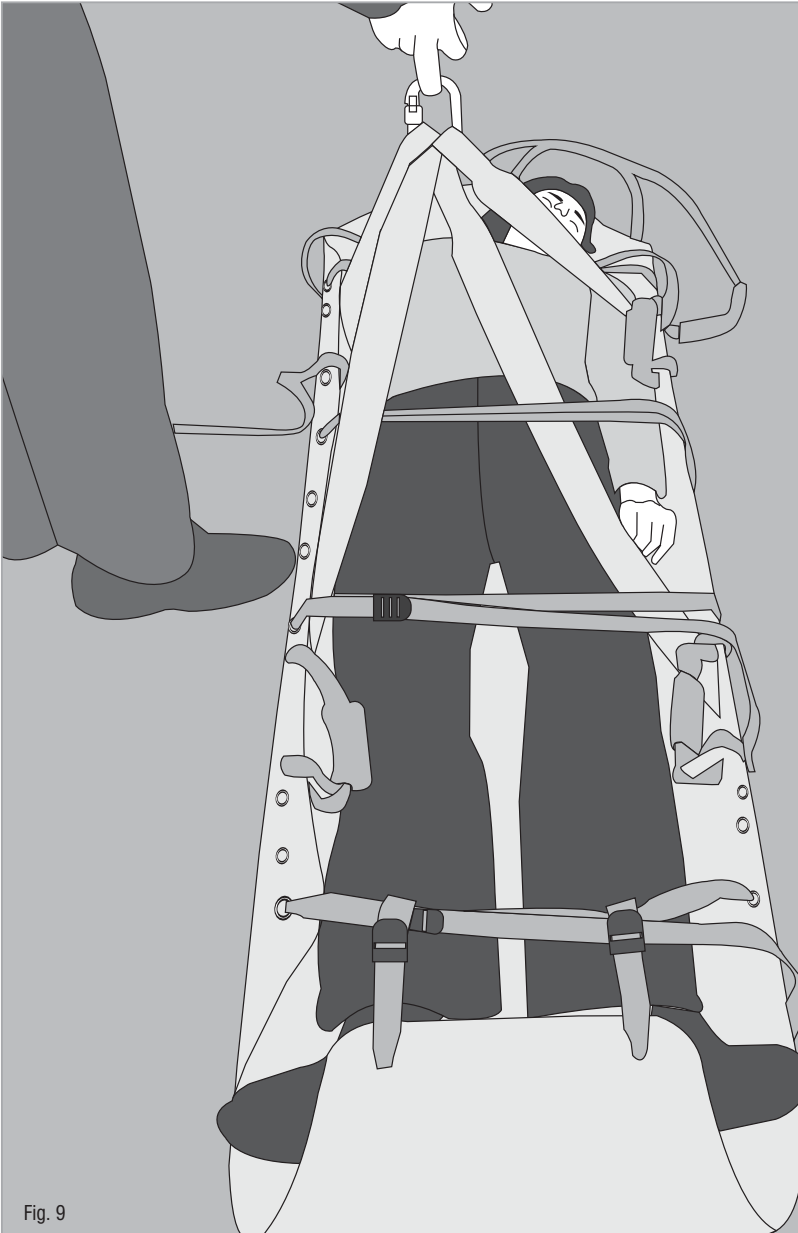


Fig. 9





Fig. 10

- Pass each end of the rope through grommets at the head of the stretcher. Pull the knot up against the stretcher.
- Continue feeding rope through unused grommets and carrying handles all the way to the foot end of stretcher. Ensure both ends of the rope are even.
- Pass the rope ends through grommets at the foot end of stretcher from the inside outward. Tie the ends of the rope together with a square knot.
- Bring ends of the rope up over the end of the stretcher. Pass through carrying handles and secure with a square knot safely each side with an over hand knot (See fig.10)
- **Manual Transport:**
  - With the help of the set of four handles it is possible to transport the device manually. The free metal rings of the stretcher can be used as anchorage for the handles.
  - Transport belts can be connected to the handles in order to slide the stretcher on the terrain.
- **Rolling up the device**
  - Lay stretcher out and place retainer strap, buckle side down under foot end of the stretcher.
  - Starting at the head end, roll the stretcher up as tight as possible.
  - Continue to roll the stretcher up using knee to keep stretcher from unrolling.
  - Fasten pre-placed retainer strap to buckle and place the stretcher in the back pack.

**5. MAINTENANCE**

- **Cleaning**
  - The loading surface as well as belts and ropes, may be contaminated during various phases of the rescue and transport operations, by body liquids and blood.
  - With the help of the materials used for the constructions of the device like polymers and other synthetic materials, it is possible to use, without any risk of incompatibility, usual products for disinfection.
  - Dis-infection should be carried out with normal disinfectants for example any anti-septic lotion, every time after use.
- **Maintenance**

PROBLEMS	CAUSE	REMEDY
Damages to the loading surface	Improper use	Take the device out of service immediately and contact the service centre.
Damages to the metal rings dedicated to various belts and ropes	Improper use	After every use, check the conditions of the metal rings. In case permanent deformations are detected, take the device out of service immediately and contact the service centre.
Damages to belts and ropes	Prolonged use	Periodically change components dedicated to extrication and lifting.

**Important:** The device, useable for rescue operations in narrow spaces, heights, rough terrains and in water, may never be lifted with one ring only.

- **Precautionary Maintenance**
  - The device does not require scheduled servicing.
  - Before and after use, in order to detect any anomalies or damages, verify the correct functioning of the device by identifying and removing anomalies which could compromise its integrity and correct operation.
- **Servicing Maintenance**
  - The person to whom the servicing of Product is entrusted must guarantee the following basic requirements:
  - Adequate knowledge of the Product, of its technical/construction features, of checks and final tests, of packaging, conservation and handling.
  - Adequate knowledge of technology used in making of the Product.
  - Knowledge of the function of Product, of any potential risk and of the probability of possible malfunctions or break-downs.
  - To be in possession of all the instruments necessary for carrying out any kind of technical operation regarding servicing.
  - To be in possession of original replacement part or those authorized by the manufacturer.
  - Specialized technical personnel trained by the manufacturer for servicing of the Product in question.

6. **MARKING ON PRODUCT :**

The IRSQ Recovery Stretcher AFX205001 is marked with:

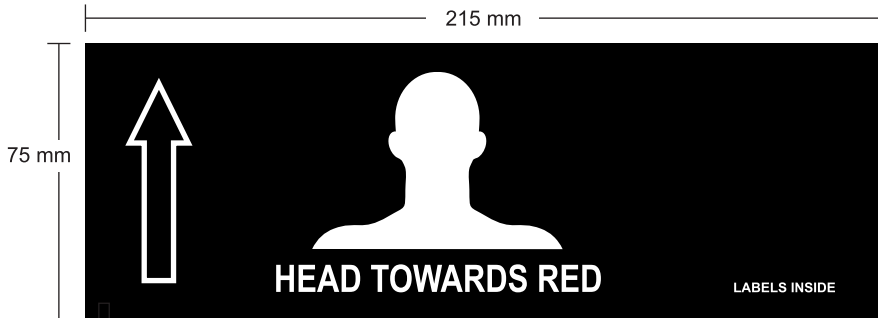
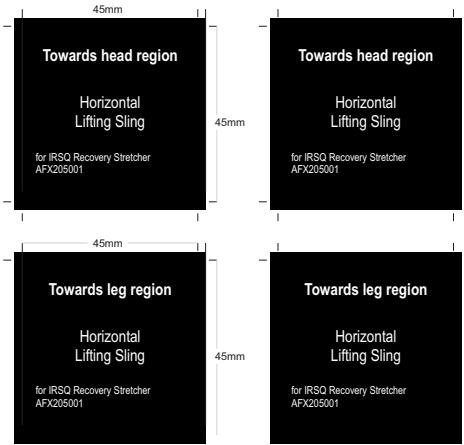
- (i) Identification of the manufacturer
- (ii) Type or product code
- (iii) UID for traceability of Product
- (iv) Month and Year of Manufacturing
- (v) Material
- (vi) Address of the manufacturer

**MARKING**

<p><b>K*STRONG</b> UNIMPERSONAL PROTECTIVE IRSQ RECOVERY STRETCHER AFX205001</p> <p>UID: XXXXXXXXXXX Mfg. mnumber: XXXXXXX Material: Non-Flammable Polyolefin Max. Load Capacity: 200Kg Weight of device: 2.9kg Total weight with bag &amp; belt: 8kg</p> <p><b>Components</b> (loading surface) Length: 2340 mm Width: 193 mm Karabiners(Material): Alloy Steel Rope Type: Kimmantina (Length-3m) Rope Dia: 6mm</p> <p><b>Lifting belts</b> Length : Feed zone 2030 mm/ Head zone 1930mm Width : Feed zone 6mm/ Head Zone 5mm Max. Load Capacity for Belts: 300Kg Max. Load Capacity for Stitching: 200 Kg</p> <p><b>Handles</b> Material: Polyester Handles on every longitudinal side : 2</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">QR CODE</div> <p><b>K*Strong Inc.</b> 150 N. Radnor Chester Road Suite F202 Radnor, Pennsylvania 19087 United States K*Strong.com      Made In India</p>	<p><b>KNOW YOUR STRETCHER</b></p> <ul style="list-style-type: none"> <li>• The product must be used by trained personnel only.</li> <li>• The device is NOT designed as a spinal immobilization device.</li> <li>• If a spinal injury is suspected, secure the patient to an approved spinal immobilization device prior to placing him/her in the stretcher.</li> <li>• Never suspend the stretcher by a single grommet.</li> <li>• Use the slings and webbing in the manner for which they are provided.</li> </ul>	<p><b>CARE AND MAINTENANCE</b></p> <ul style="list-style-type: none"> <li>• The loading surface as well as belts and ropes, may be contaminated during various phases of the rescue and transport operations, by body liquids and blood.</li> <li>• With the help of the materials used for the constructions of the device like polymers and other synthetic materials, it is possible to use, without any risk of incompatibility, usual products for disinfection.</li> <li>• Dis-infection should be carried out with normal disinfectants for example any anti-septic lotion, every time after use.</li> </ul>	<p><b>USAGE GUIDELINES</b></p> <ul style="list-style-type: none"> <li>• The device does not require scheduled servicing.</li> <li>• Before and after use, in order to detect any anomalies or damages, verify the correct functioning of the device by identifying and removing anomalies which could compromise its integrity and correct operation.</li> </ul> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center; font-size: small;">Warning</p> <p> See instructions before use.</p> <p> Prolonged exposure to sunlight (UV rays) can damage all plastic.</p> <p> Handle with care</p> </div>	<p><b>INSPECTION GRID LABEL</b></p> <p>Date of first use : _/ _/ _ Last examination : _/ _/ _</p> <table border="1" style="width: 100%; height: 100%; text-align: center; font-size: x-small;"> <tr><td>Q</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Z</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>O</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>K</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>E</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>S</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>L</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>I</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>Y</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	Q																					Z																					O																					W																					K																					E																					S																					H																					L																					I																					B																					Y																				
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**Main Product Labels**

**MARKING**



**LIFESPAN:** The estimated product Lifespan is 10 years from the date of manufacture. The following factors can reduce the Lifespan of the product: intense use, contact with chemical substances, specially aggressive environments, extreme temperature exposure, UV exposure, abrasions, cuts, violent impacts, bad use or maintenance.

**DISCLAIMER:** Prior to use, the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on the proper usage of the product. Manufacturer is not liable or responsible for any loss, damage or injury caused or incurred by any person on grounds of improper usage or installation of this product.

EQUIPMENT RECORD				
Product				
Model & type/identification		Trade Name	Identification number	
Manufacturer		Address	Tel, email into use	
Year of manufacture		Purchase Date	Date first put into use	
Other relevant information (eg. document number)				
PERIODIC EXAMINATION AND REPAIR HISTORY				
Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date

For EU Declaration, please visit <https://kstrong.com/asia/eu-declaration-form/>



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Radnor, Pennsylvania 19087 United States  
Contact number : 1-833-KSTRONG

www.kstrong.com

USA	South America	ASIA
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