



Instructions for Use

Antirootation sail Ears



EN – Original instructions





Read this manual carefully
and retain it for future reference

Device identification

Commercial name of device	ANTI-ROTATION SAIL FOR BASKET STRETCHER
Model and catalogue number	REF EARS
Intended use	Anti-rotation sail for basket stretcher is an accessory intended to be used together with basket type Ferno stretchers to guarantee correct rotation management during patient recovery.

Regulatory compliance



All products sold by Ferno comply with the general safety and performance requirements of Regulation (EU) 2017/745 (MDR) concerning medical devices.

For information, please visit: www.ferno.it

For information on the correct use of the antirotation sail EARS and to organize training courses on the correct use of the device, contact Ferno Washington Italia Customer Relations.



Manufacturer details



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Revision index

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1.Description

The EARS antirotation sail, applied on the Ferno stretchers for helicopter rescue operations, controls rotations caused by the movement of the helicopter during rescue operations.

It has to be positioned in the foot area of the stretcher on the right or the left side depending by the position of the operator.

The sail has an orange handle outside the pocket. It has 8 straps (4 per side) for application on the stretcher and an integrated pocket for storage.

2.instruction for use

- The antirotation sail is for professional use only. Technical Rescue procedures require special skills and are potentially hazardous activities. No rescue personnel should attempt technical rescue procedures unless they have received professional instruction and training.
- Always leave the handle visible and easily reachable for the operator outside of the pocket.
- Read all instructions before use.
- This manual provides only general instructions for use. Follow local Emergency Medical Service protocols.

 **WARNING**

Untrained operators may injure themselves and/or cause damage or injury. Only trained, qualified operators should be allowed to use the EARS.

Improper use of the antirotation sail may cause damage or injury. Use the EARS as shown in this manual.

3.Symbol glossary

Symbol	Description
	This product meets European Union Standards
	Read the users' manual carefully

1	Straps (n.8)
2	Pocket
3	Antirotation sail
4	Handle



4. Applying the ears

The antirotation sail EARS has 8 straps with buckles (4 per side), that permit to apply the sail to the tubular upper and lower rail of the stretcher, in the foot area (Figure 1).

If not used, the sail must be stored inside its pocket.

To apply the sail, proceed as follows.

4.1 Applying the sail

1. Hold one of 4 upper straps to apply to the tubular upper rail of the stretcher (Figure 2A).
2. From outside, insert the strap inside the stretcher in order to wrap the tubular upper rail of the stretcher (Figure 2B).
3. Insert the strap through the first slot in the locking buckle (Figure 2C) and pull it (Figure 2D).
4. Insert the strap through the second slot in the locking buckle (Figure 2E) and pull it in order to firmly wrap the tubular upper rail of the stretcher (Figure 2F).
5. Repeat the same operations with the remaining three straps to apply to the tubular upper rail (Figure 3) and the four straps to apply to the tubular lower rail of the stretcher (Figure 3).
6. Apply two upper lateral straps around the tubular upper rail of the stretcher ensuring not to insert them in the attachment points of the stretcher for karabiners (Figure 4).



Figure 1
Antirotation sail EARS applied on the stretcher foot area



Figure 2 - Application of the antirotation sail
Inset 2F - Strap correctly applied



Figure 3
Straps firmly applied to tubular upper and lower rail



Figure 4
Lateral strap correctly applied

4.2 Taking out the sail

1. Hold the orange handle (Figure 5A).
2. Pull the handle outwards so the sail comes out completely (Figure 5B).



Figure 5 - Taking out the EARS antirotation sail

4.3 Putting the sail back

1. Open the pocket and fold the sail in a concertina shape inside the pocket (Figure 6A).
2. Once completely inserted, attach the handle to the Velcro fastenings on both sides, leaving the handle outside (Figure 6B,C).
3. Close the pocket with the Velcro fastening, leaving the handle outside.



Figure 6
Placing the sail
in the pocket

5. Use of the sail

5.1 Hold & deploy

Once in position, hold the EARS handle firmly with one hand and progressively deploy the sail, exposing it to the airflow (Figure 7A).

5.2 Use the airflow

Adjust the position and opening of the sail to use the airflow and generate the aerodynamic force needed to counteract unwanted rotation of the basket stretcher. (Figure 7B).

5.3 Modulate the effect

Progressively increase or decreases the amount of sail exposed to the airflow according to the basket's rotation (Figure 7C). Use smooth, controlled movements.

5.4 Maintain stability

As the rotation decrease, progressively adjust the sail exposure. Once the basket is stable, maintain only the amount of sail exposure necessary to control its rotation. (Figure 7D).

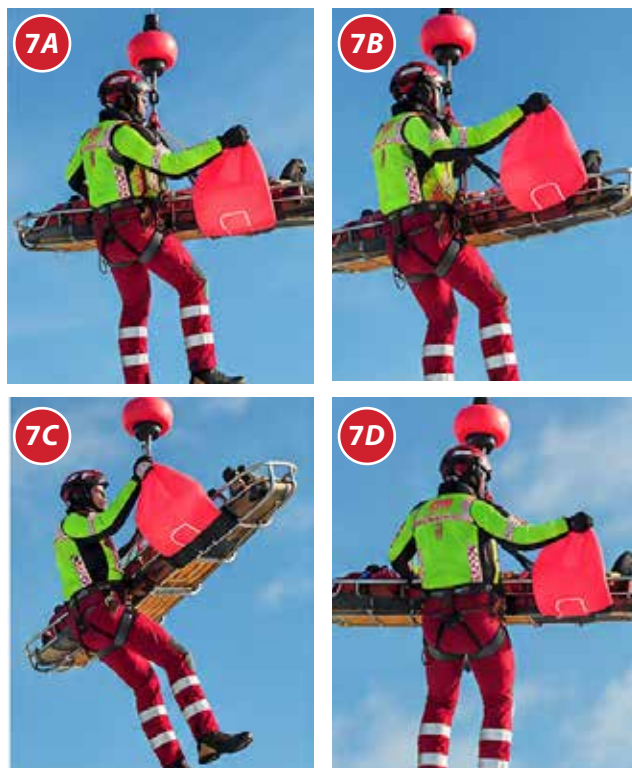


Figure 7
Use of the sail

6. Maintenance



ATTENZIONE

Inadequate maintenance may cause serious damage or injury. Carry out maintenance as described in this manual.



To request additional free user manuals, contact Ferno Italia Customer Relations.

The sail requires regular maintenance.

Keep a record of maintenance operations. To guarantee optimal use of the sail, all components must be in good condition and free from dirt, residue and body fluids.

The sail must be inspected before and after every use. If not used, it must be stored, inside its pocket, indoors in a dry place and be inspected at least once a month.

If signs of wear and damage are found during the inspection, remove the sail from service and contact immediately Ferno's Technical Support Service for repairs/maintenance.

7. Cleaning

Wash the sail (max. 60°C) with delicate neutral detergent like Marseille soap. Do not bleach or spin. Rinse with clean water. Dry flat. Do not clean with high pressure water.

Do not use products containing bleach, phenol or iodine to clean the sail. Products containing these elements may damage the sail. Suitable gloves are recommended during cleaning (e.g. disposable gloves or household gloves).

8. Storage

The sail should be cleaned and stored in a dry place indoors, away from direct sunlight.

When not used, it can be stored in its integrated pocket. The sail can be stored mounted on the stretcher it is used with.

After cleaning, ensure that the sail and its components are completely dry before replacing it in its pocket.

9. Warranty

Ferno products are covered by a 24-month warranty against manufacturing defects. For complete terms and conditions of the warranty, and the limitations of liability and disclaimers, contact Ferno Washington Italia Customer Service or consult the website **www.ferno.it**.



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