FERNO®

User and maintenance manual

ScoopEXL atraumatic stretcher (PIN and no PIN)

Rel.19012024
English translation of the original User Manual

Read this manual carefully and keep it for future reference

Ferno Technical Support

Customer Service and Technical Support are important aspects of every Ferno product. Before contacting us, note the serial number of the product and specify it in all written communications. For all queries concerning technical support, contact Ferno S.R.L.:

E-mail	assistenza.it@ferno.com
Website dedicated to support - Ferno SOS	www.fernosos.it
Phone	0039 0516860028
Phone (toll-free for Italy only)	800.501.711
Fax	0039 0516861508

Ferno S.R.L. is authorised to carry out preventive and corrective maintenance (repairs) on all Ferno products in exclusivity.

Any corrective action MUST necessarily be carried out by FERNO personnel and the operations must be carried out using original spare parts. In this way, the warranty is also extended to the components involved in the operation.

Any corrective action carried out by non Ferno personnel will automatically cancel any Civil Liability insurance and any guarantee.

Ferno Customer Service

For further details, please contact Ferno S.R.L.'s Customer Service:

MANUFACTURER

Ferno S.R.L., Via Benedetto Zallone 26

40066 - Pieve di Cento (BO) - ITALY

Phone (toll-free for Italy only)	800.501.711
Phone	0039 0516860028
Fax	0039 0516861508
Website	www.ferno.it

Limitation of liability

This manual contains general instructions on the use and maintenance of the product. The instructions do not cover all possible applications and operations. The user is solely responsible for proper and safe use of the product. Safety information is provided as an aid to the user.

Any other safety measure implemented by the user must comply with applicable regulations. Before using the product, it is strongly recommended that staff be trained in its correct usage. Retain this manual for future reference. In case of change of ownership, ensure that the manual remains with the product. Additional free copies can be downloaded online at www.ferno.it.

USER AND MAINTENANCE MANUAL

Further free copies of the instruction manual visit the website

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ScoopEXL Serial number:_____
Placement: Back of the body section on the right-hand side (operator view).

Reporting accidents

In the event of a serious accident occurring in relation to

the device, contact Ferno S.r.l. and the competent authority of the member state in which the user has its main office.

E-mail	eu-regulatory.it@ferno.com
Website dedicated to support - Ferno SOS	www.fernosos.it
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Intellectual property declaration

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Limited warranty

Ferno products are covered by a 24-month warranty against manufacturing defects. For the full terms and conditions of warranty and liability, see Chapter *Warranty*.

TABLE OF CONTENTS

1 - SAFETY INFORMATION

Read this user manual carefully. It is an integral part of the device and must always be stored close at hand. For your personal safety and for that of patients, please observe the following points:

– Before every use, make sure that there are no signs of wear, damage and/or malfunctioning. Refer to section *Inspection*.

– In order to avoid infections and/or bacterial contaminations, follow the indications in sections *Disinfection* and *Cleaning*.

1.1 Warning

The danger symbols draw attention to potentially dangerous situations that, if disregarded, may result in accidents, damage and/or injury.

⚠ WARNING

Untrained users may injure themselves, cause damage and/or physical harm. Allow only trained and qualified staff to use the ScoopEXL stretcher.

Improper use of the stretcher may cause damage and/or injury. Use the ScoopEXL stretcher as described in this manual.

Unauthorised modifications of the ScoopEXL stretcher could cause serious damage, injury and/or unforeseeable operating problems. Do not modify or alter the stretcher in any way.

Any damage to the components of the stretcher or to the entire system may affect its performance and safety. Inspect the ScoopEXL stretcher frequently, especially before and after each use. Place the stretcher out of service if it shows signs of wear or damage.

An unassisted patient is at risk of injury. Never leave the patient alone while tied to the stretcher. Assist the patient throughout all rescue operations.

Any improper use of the restraints can cause the patient to fall and endanger their safety. Always use the patient restraints as described in this manual.

Failure to comply with the instructions in this manual for the application of the stretcher restraints could cause accidents, damage and/or injury.

Occasional assistants may cause damage and/or physical harm, or injure themselves. Do not allow occasional assistants to carry out the preparation of the stretcher. Take extreme care during all operations.

Improper maintenance may cause serious accidents and/or damage. Perform maintenance as instructed in this user manual.

The use of improper and/or unauthorised devices may cause accidents, damage, and/or injury. Use only devices that have been approved and authorised by Ferno S.R.L.

⚠ WARNING

Unauthorised repairs, and repairs carried out by technicians not authorised by Ferno S.R.L., will render all warranties null and void and may compromise the safety of the stretcher.

Non-original spare parts and inadequate repairs may cause damage and/or injury. Use only original Ferno spare parts and refer exclusively to Ferno S.R.L.'s Customer Support.

1.2 Important

Boxes labelled "Important" contain important information on use and/or maintenance of the device.

Important

1.3 Blood-borne diseases

To reduce risks of exposure to infectious diseases that may be transmitted by blood, such as HIV-1 or Hepatitis, follow the instructions on disinfection and cleaning in this manual carefully.

1.4 Load capacity

Observe the load capacity of the ScoopEXL stretcher. Refer to section *General specifications*.

1.5 Glossary of symbols

The symbols used in this manual and/or on the label on the stretcher are defined below. The CE mark is present on the stretcher and in this manual.

Read the user manual carefully

The stretcher requires at least two qualified operators

Load capacity (in kilos, pounds and stones)

This product meets European Union Standards

QR Code

Part number (abbreviated with PN, P/N, part no., or part #) unambiguously identifies a specific part of the design.

A catalogue number indicates the manufacturer's catalogue number in order to identify the medical device.

A serial number indicates the manufacturer's serial number in order to identify a specific medical device.

A lot code indicates the manufacturer's lot code in order to identify the lot.

Medical Device

Unlocked

Locked

Do not lubricate

Lubricate

Do not wash with high pressure water

Conditions for MR Safety

1.6 Information and safety labels

The information and safety labels contain important information that the user needs to know.

Read and follow the label instructions. Replace worn and damaged labels immediately. To obtain replacement labels, contact Ferno S.R.L.'s Customer Service.

The Manufacturer's references, CE mark and serial number can be found on the back of the stretcher (on the right-hand side of the body section, operator view).

Load capacity (in kilos, pounds and stones)

Never exceed the load capacity of the ScoopEXL stretcher. Inspect the stretcher if the load capacity has been exceeded (see section *Inspection*).

Main Label

2 - OPERATOR TRAINING AND SKILLS

2.1 Skills

Operators who use the stretcher must:

- Attend a suitable training course on the use of the device.
- Possess the appropriate skills to assist the patient.

2.2 Training

Operators are required to:

- Carefully read and understand all information in this manual.
- Attend a suitable training course on the use of the stretcher.
- Practice with the stretcher before using it in real situations with patients.
- Log the training sessions. An example of a form for logging the training sessions can be found in the section *Training record.*

⚠ WARNING

Untrained users may injure themselves, cause damage and/or physical harm. Allow only trained and qualified staff to use the ScoopEXL stretcher.

Important

Operators must be able to ensure the safety of both themselves and their patients while using the stretcher. They must be able to determine the number of assistants required to handle the patient according to the laws in force.

3 - THE STRETCHER

3.1 Description and intended use

The ScoopEXL atraumatic stretcher (more simply referred to as “stretcher” in this manual) is a device intended for rescue, movement restriction and patient transport. The stretcher must be used by trained and qualified operators. Additional assistance may be required to handle bariatric patients and/or when the situation demands it and should always be provided according to local healthcare regulations.

The stretcher can be adjusted in length according to the patient's height up to 2100 mm. It is foldable by placing the foot section inside the body section and can be divided into two parts for storage (see section *Storage*).

The stretcher is available in PIN and NO PIN versions in the following colours: Yellow, Red, Green, Black.

3.2 MRI safety information

From serial number S/N: 30001 the ScoopEXL stretcher has been constructed with components with non-ferromagnetic behaviour, which allow it to be used within magnetic fields with values not exceeding 1.5 T.

MRI (MAGNETIC RESONANCE IMAGING) SAFETY STATEMENT

In accordance with Ministerial Decree of 14 January 2021 of the Ministry of Health, the components of the ScoopEXL stretcher are MR-conditional.

Non-clinical tests have shown that the ScoopEXL stretcher has conditional compatibility for MR.

Clinical hydrogen proton imaging system (cylindrical tunnel/horizontal field). Static magnetic field strengths at 1.5 T. Normal operating mode must be adhered to for the entire active scanning session (whole-body average SAR ≤ 2.0 watts/kilogram (W/kg); head SAR ≤ 3.2 W/kg). Spatial gradient not exceeding 18,8 T/m (1880 G/cm).

⚠ WARNING

The doctor responsible for the clinical safety and diagnostic efficacy of the MR equipment or their delegate, having noted the answers provided by the patient and having carried out all the appropriate investigations, authorises access to the MR site.

Any questions or doubts should be clarified with the manufacturer before performing an MRI examination.

⚠ WARNING

If the conditions or instructions presented on this page are not followed, injury to the patient and/or damage to the ScoopEXL stretcher may occur.

⚠ WARNING

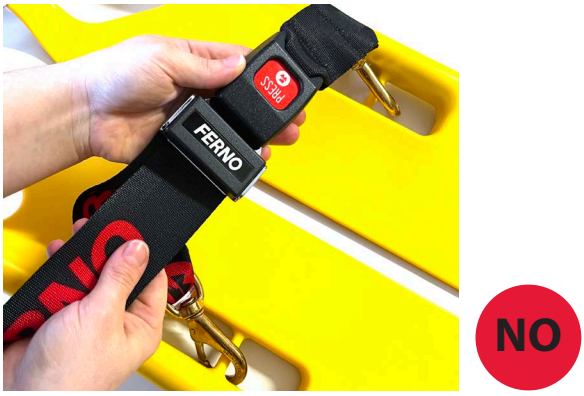
Only compatible with closed-loop horizontal proton scanners.

⚠ WARNING

The decision to authorise an MRI examination with the patient on the ScoopEXL stretcher is a medical decision.
If it is deemed necessary to carry out diagnostics without the stretcher, the patient should be transferred to the MRI system bed before performing an examination. To open the ScoopEXL stretcher, please refer to the section *Twin Safety Lock (TSL) System*.

⚠ WARNING

During MRI diagnostic examinations, use only plastic or nylon restraints with plastic buckles. Speed-clips or metal buckles could be MR-unsafe.



⚠ WARNING

Be sure to always use the updated MRI safety information in these operating instructions.

For cervical spine in multiple trauma (MT) patients MR Examinations: A polytrauma patients entering magnetic fields on the ScoopEXL stretcher can be safely examined in an MRI system under the following conditions. Failure to follow these conditions may result in injury.

Parameter	Condition
Device Name	ScoopEXL starting from SN 30001
Device Configuration	ScoopEXL third position, portable, electrically passive, SN 084438
Static Magnetic Field Strength (B0)	1.5T
Type of Nuclei	H (Hydrogen)
MR Scanner Type	Cylindrical
B0 Field Orientation	Horizontal
Maximum Spatial Field Gradient	18.8 T/m (1880 G/cm)
Maximum Gradient Slew Rate	200 T/m/s per axis
RF Excitation	Circularly Polarized (CP)
RF Transmit Coil Type	Integrated Whole Body Transmit Coil
RF Receive Coil Type	Whole Body Flex
Operating Mode	Normal Operating Mode
RF Conditions	For 1.5T MR Scanner: Whole-Body SAR ≤ 2 W/kg, SAR head ≤ 3,2 W/kg
Scan Duration	Scan for up to 30 minutes.
Scan Regions	Any landmark is acceptable
Image Artifact	The presence of the ScoopEXL stretcher may produce an image artifact. Some manipulation of scan parameters may be needed to compensate for the artifact.

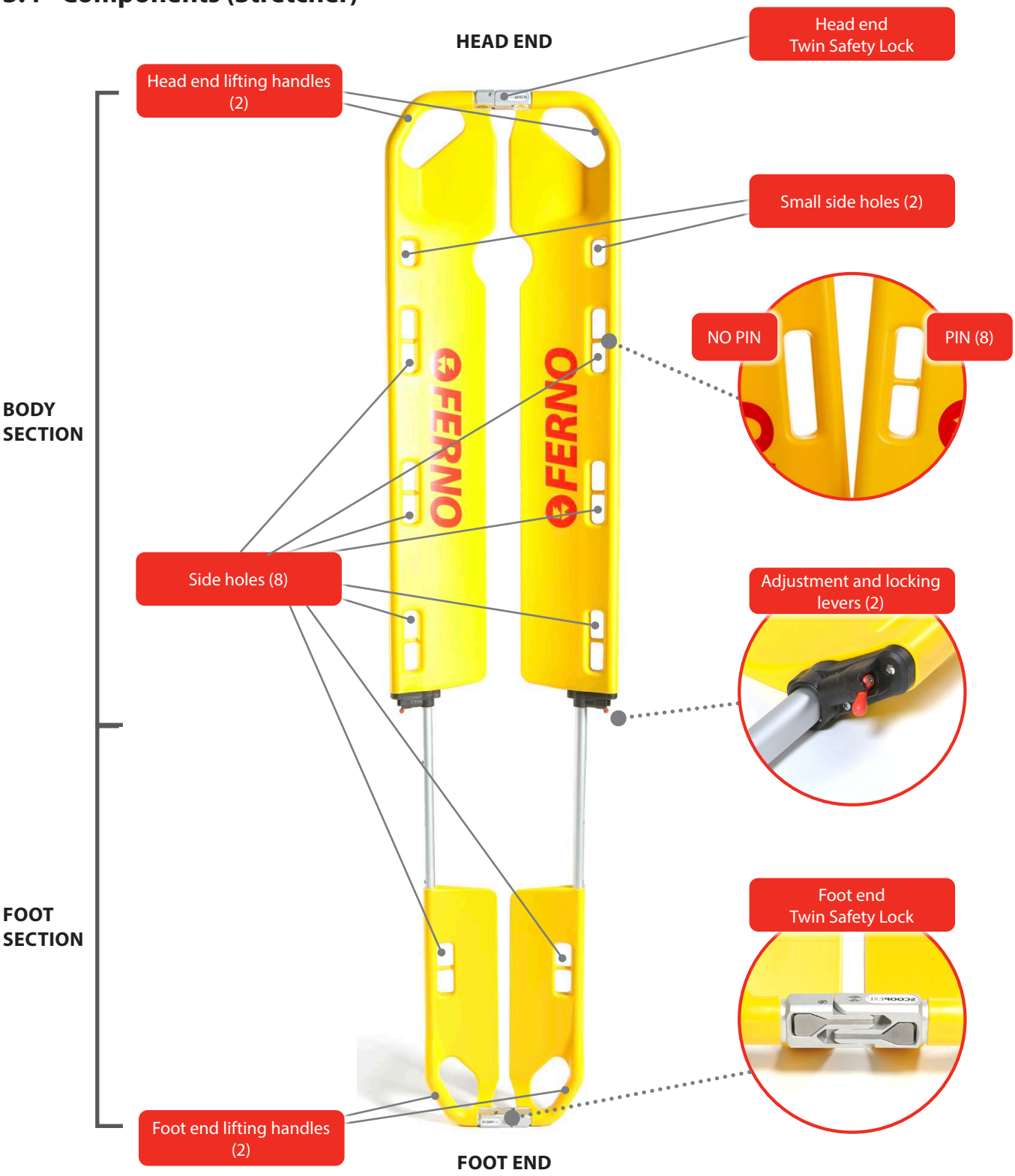
3.3 CE Marking

EUROPEAN MEDICAL DEVICE REGULATION

Ferno's products meet the general security requirements of European Regulation 17/745 MDR concerning medical devices. For any further information, please visit: www.ferno.it

CE

3.4 - Components (Stretcher)



COMPONENTS OF THE STRETCHER

- Lifting handles (2 on head end and 2 on foot end)
- Side handles (8, 4 on each side): each handle can have a pin inside for locking snap-hook restraints, depending on the model.
- Small side holes (2) for attaching the "H"-shaped Velcro strap of the B-lock head immobiliser.
- TSL Twin Safety Lock locking systems (2). Each TSL is equipped with buttons for opening the stretcher.
- Side locking levers (2) for stretcher length adjustment.
- Snap-hook restraint locking pins, for models featuring pins. (8)

3.5 General specifications

Ferno reserves the right to change the specifications without notice. For further details, please contact Ferno's Customer Service.

Specifications		
Load capacity	500 lbs	227 kg
Weight	17.64 in	8 kg
Length		
Folded	47.24 in	1200 mm
Position 1	64.84 in	1647 mm
Position 2	69.68 in	1770 mm
Position 3	74.40 in	1890 mm
Position 4	79.13 in	2010 mm
Width		
Total	17.28 in	439 mm
Shimming		
Open	2.75 in	70 mm
Folded	3.14 in	80 mm
Materials		
Structure	HDPE	
TSL	aluminium	

USER AND MAINTENANCE MANUAL

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⚠ WARNING

Improper use of the stretcher may cause damage and/or injury. Use the ScoopEXL stretcher as described in this manual.

⚠ WARNING

Untrained users may injure themselves, cause damage and/or physical harm. Allow only trained and qualified staff to use the ScoopEXL stretcher.

⚠ WARNING

Never exceed the load capacity of the stretcher specified in this manual.

⚠ WARNING

Never connect lifting devices to the stretcher pins. The pins are only intended for connecting snap-hook restraints.

Load capacity

Never exceed the load capacity of the ScoopEXL stretcher. Inspect the stretcher if the load capacity has been exceeded (see section *Inspection*).

4 - CONFIGURATION OF THE STRETCHER

4.1 Length adjustment

The ScoopEXL stretcher is adjustable in length (4 positions). This adjustment allows the stretcher to be adapted to the patient's height.

When preparing the stretcher, adjust its length properly, so that it fits correctly to the patient's height.

Figure 1 - Length adjustment system

HOW TO ADJUST THE LENGTH

In order to adjust the stretcher length, proceed as follows:

1. Release the locking levers, on both sides of the stretcher, by placing them facing upwards (Figure 2).

2. Pull the foot section out to the desired length. The stretcher can be locked in 4 different lengths at the holes of the tubular element of the foot section (Figure 3A, 3B, 3C, 3D). During adjustment, it is recommended to keep the two parts that make up the stretcher hooked together.

3. Once the desired length has been reached, lock the levers on both sides of the stretcher, positioning them facing downwards (Figure 4). An audible “clack” is emitted at the correct locking.

4.Ensure that the adjustment has been carried out correctly and that the stretcher length is appropriately adapted to the patient's height.

5. Before performing any operation with the stretcher, make sure that the levers are locked (Figure 4) and that the stretcher is correctly adjusted to the desired position.

After having properly adjusted the stretcher length, check that the levers are properly locked. To check for correct locking, check that the levers are pointing downwards, then pull the foot section. If the section does not extend, the levers are locked correctly and the stretcher is locked in the chosen position.

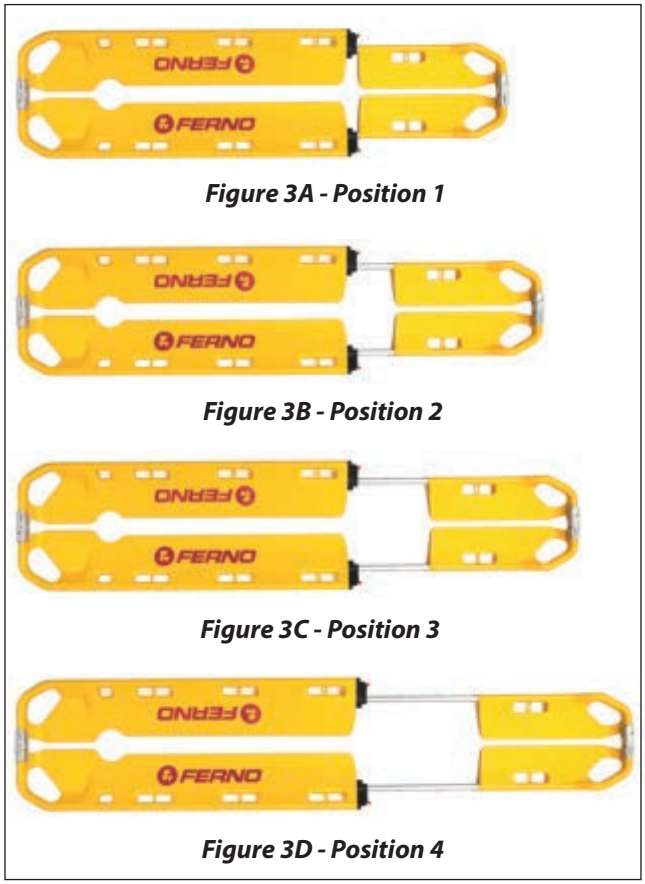


Figure 3A - Position 1

Figure 3B - Position 2

Figure 3C - Position 3

Figure 3D - Position 4

Figure 2 - Locking lever facing upwards: STRETCHER UNLOCKED

Figure 4 - Locking lever facing downwards: LOCKED STRETCHER

4.2 Twin Safety Lock (TSL) System

The stretcher is equipped with two Twin Safety Lock (TSL) systems, which allow the stretcher to be opened and closed longitudinally by dividing it into two equal halves (Figure 5).

The two TSL systems are positioned at both ends of the stretcher (head end and foot end) and each has two buttons for opening the stretcher.

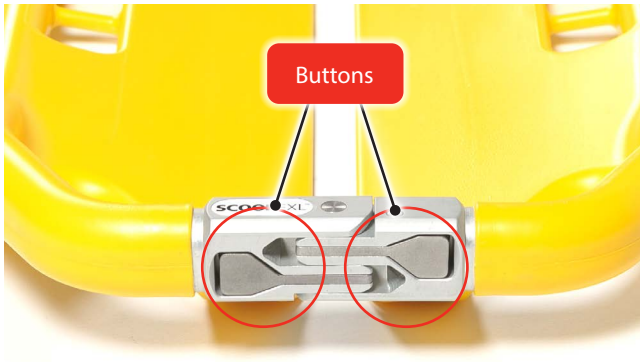


Figure 5 - Twin Safety Lock (TSL) System

HOW TO OPEN THE STRETCHER

Each TSL consists of two buttons (Figure 5).

In order to open the stretcher, proceed as follows:

1. Grab the head end lifting handles with both hands.

2. Press the two buttons of the TSL system simultaneously and open the stretcher by separating the two parts (Figure 6). This will separate the two longitudinal parts that make up the stretcher (Figure 7).

3. Carry out the same operations to open the stretcher at the foot end

Figure 6 - Stretcher opening via TSL

HOW TO CLOSE THE STRETCHER

1. Grab the head end lifting handles with both hands.

2. Close the two ends of the TSL so that the stretcher is locked. To close it, it is not necessary to press the buttons.

3. Carry out the same operations for the foot end.

4. Check the correct locking of the TSL system. To check the tightness of the system, grab the handles and try to separate the two parts that make up the TSL, without pressing the buttons. If the two parts of the TSL do not separate, they are correctly locked and the stretcher is closed.

Figure 7 - Open TSL

4.3 How to fold the stretcher

1. Place the stretcher on a flat surface.

2. Place the locking levers in the unlocked position, facing upwards, on both sides of the stretcher (Figure 8). Refer to section "*Length adjustment*".

3. Fully extend the foot section so that the hinges are fully visible (Figure 9).

4. Place the foot section on the body section (Figure 11).

5. Place the levers in the locked position, facing downwards, on both sides of the stretcher (Figure 10).

6. If the stretcher is not in use and is stored folded, ensure that the levers are in the closed position (facing downwards).

Figure 8 - Locking lever facing upwards

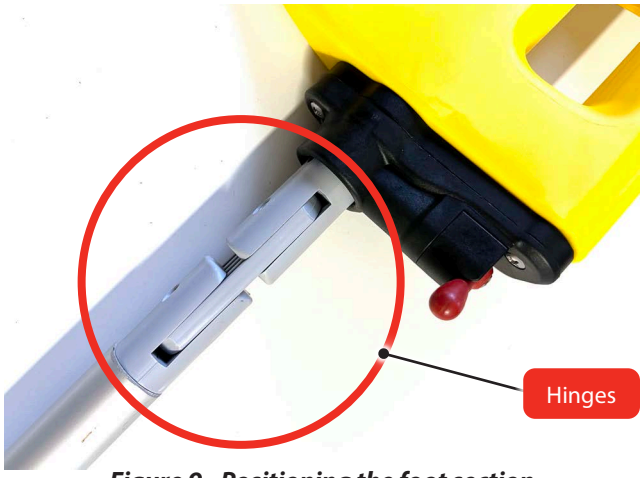


Figure 9 - Positioning the foot section on the body section

4.4 How to extend the stretcher

If the stretcher is folded (Figure 11), proceed as follows to extend it:

1. Place the stretcher on a flat surface.

2. Lift the foot section and place it on the same supporting surface as the body section.

3. Release the locking levers by turning them upwards (to unlock the levers, see the section *Length Adjustment*).

4. Adjust the length of the stretcher and lock it in the desired position (to correctly adjust the stretcher length, please refer to the section *Length adjustment*).

Figure 10 - Locking lever facing downwards

Figure 11 - ScoopEXL folded

4.5 Lifting handles

The stretcher is equipped with 4 lifting handles at the head end and foot end.

Grab the lifting handles to lift the stretcher.

Lift only the weight that you can safely support. Obtain additional assistance for heavy loads (see the section *Additional help*).

4.6 Side holes

The stretcher is equipped with:

- 2 small side holes for fixing the "H"-shaped Velcro strap of the B-lock head immobiliser. The small holes are only located at the head end of the stretcher (Figure 12).
- 8 side handles (4 per side). If the stretcher is fitted with pins, each handle has a pin inside for locking the snap-hook restraints (Figure 12).

4.7 Pin

Depending on the model, the stretcher can be equipped with 8 pins for locking the snap-hook restraints. The pins are located in the side holes of the stretcher (Section *Components (Stretcher)*).

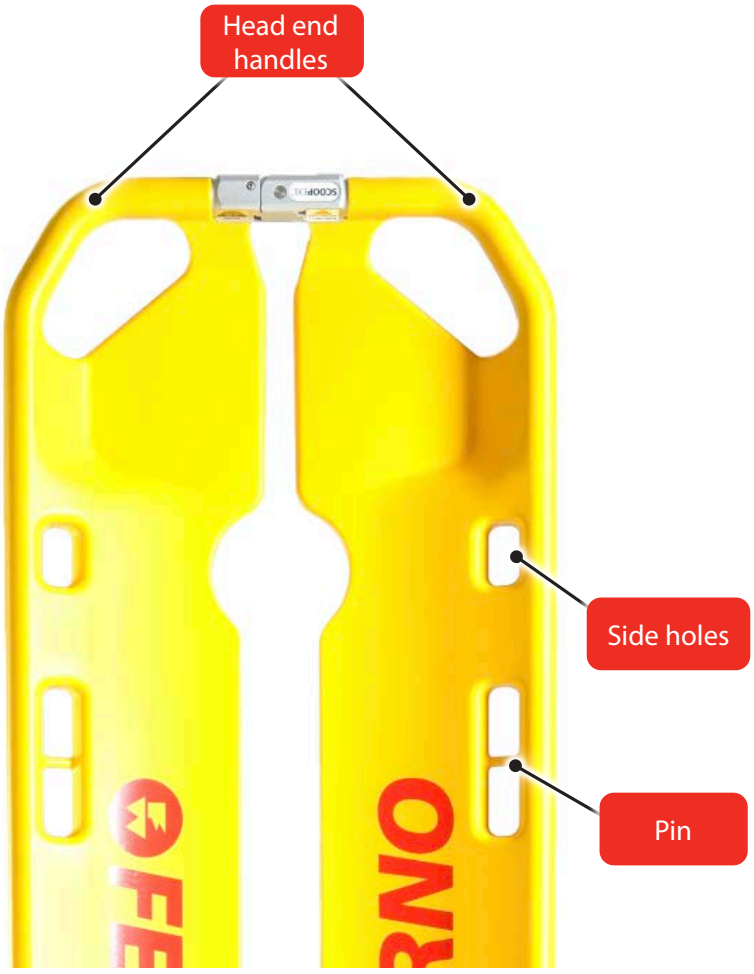


Figure 12 - Upper part details

4.8 Compatibility of ScoopEXL and restraints

TWO-PIECE RESTRAINTS WITH SNAP-HOOK (CODE 0314122)	TWO-PIECE RESTRAINTS WITH PLASTIC OR METAL BUCKLE (CODE 430-PA-2-N, 430-2-N)	"SPIDER" 770-E RESTRAINT SYSTEM (CODE 770-E)
		
COMPATIBILITY: 	**COMPATIBILITY:** 	**COMPATIBILITY:** 

5 - USE OF THE STRETCHER

5.1 Before putting the stretcher into service

Staff using the stretcher must have carefully read and understood the information contained in this manual.

- Before performing any operations with the stretcher, make sure that all the components are present, that the device does not show any signs of damage or wear, and that it is fully operational. Refer to section *Inspection*.

⚠ WARNING

Any improper use of the restraints can cause the patient to fall and endanger their safety. Always use the patient restraints as described in this manual.

⚠ WARNING

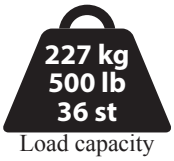
The use of improper and/or unauthorised devices may cause accidents, damage, and/or injury. Use only devices that have been approved and authorised by Ferno S.R.L.

5.2 Instructions for Use

- This manual does not provide any medical instructions.
- It is the responsibility of the operators to follow correct procedures and ensure the safety of both the patient and themselves.
- This manual explains the use of the stretcher under ideal conditions and is purely indicative.
- The stretcher must be used by at least two trained and qualified operators.
- These operators must work together and coordinate correctly during all operations.
- Follow procedures while complying with standard regulations for moving the patient in an emergency.
- Lift only the weight that you can safely support. Obtain additional assistance for heavy loads.
- In any case, always observe local healthcare instructions and regulations.
- Always assist the patient and never leave them alone during the operations with the stretcher.

Read the user manual carefully

At least two qualified operators



Load capacity

⚠ WARNING

Never leave the patient alone while tied to the stretcher. Assist the patient throughout all rescue operations.

⚠ WARNING

Never connect lifting devices to the stretcher pins. The pins are only intended for connecting snap-hook restraints.

⚠ WARNING

Improper use of the stretcher may cause damage and/or injury. Use the ScoopEXL stretcher as described in this manual.

⚠ WARNING

Never place the patient on their side when loaded on the ScoopEXL.
Carrying patients on their side may cause damage and/or injury.

5.3 Positioning on ScoopEXL

The movement restriction procedure must be carried out by at least two trained and qualified operators.

Proceed as follows:

1. Align the patient in a supine position.

2. Align the stretcher parallel to the patient (Figure 13).

3. Apply the cervical collar, if necessary (Figure 14). Refer to the cervical collar manual for its correct application. Ferno recommends the use of the Wizloc cervical collar.

4. Apply the head immobiliser (Figure 15). Refer to the head immobiliser manual for its correct application. Ferno recommends the use of the B-Lock head immobiliser.

Figure 13 - Patient alignment

Figure 14 - Cervical collar application

Figure 15 - Head immobiliser application

4. Place the stretcher next to the patient, adjust the length of the stretcher so that it fits correctly to the patient's height (Figure 16). To adjust the length of the stretcher, please refer to the section *Length adjustment*.

It is important to carry out this operation before placing the patient on the device.

Figure 16 - Stretcher length adjustment

5. Before setting the patient onto the stretcher, align the patient's jugulum with the small side holes (Figure 17). Take care when doing this as it enables the patient to be correctly positioned on the stretcher.

⚠ WARNING

Before placing the patient on the device, ensure that the stretcher has been previously extended and locked so that it is suitable for the patient's height. Do not adjust the ScoopEXL length when the patient is already positioned on the stretcher.

Figure 17 - Patient's jugulum alignment

6. The two operators, placed respectively at the foot end and head end of the stretcher, open the stretcher by pressing the buttons of the TSL system, thereby separating the two parts of the stretcher longitudinally (Figures 18).

Figure 18 - Opening the stretcher

7. Position the two longitudinal parts under the patient, starting with the head end. If the patient is uncooperative, a third operator should hold the patient's head.

8. Close the head end first via the TSL, making sure that the head immobiliser has been positioned correctly (Figure 19).

Figure 19 - Closing the head end TSL

While the first operator (head end) maintains control of the patient's head, the second operator completes the procedure for setting the patient onto the stretcher and closes the foot end via the TSL (Figure 20 and 21).

Figure 20 - Closing the foot end TSL

Figure 21 - Completing the patient loading

5.4 Restraint arrangement

TWO-PIECE RESTRAINTS WITH SNAP-HOOK (CODE 0314122)	TWO-PIECE RESTRAINTS WITH PLASTIC OR METAL BUCKLE (CODE 430-PA-2-N, 430-2-N)	"SPIDER" 770-E RESTRAINT SYSTEM (CODE 770-E)
		

5.5 Restraint application

Figure 22 - Hole numbering for restraint arrangement

TWO-PIECE RESTRAINTS WITH SNAP-HOOK

(CODE: 0314122)

Once the patient is positioned on the ScoopEXL, proceed with the application of the two-piece restraints. 4 restraints are recommended:

- 2 chest restraints, applied in a criss-cross configuration.
- 1 leg restraint, applied in transverse configuration.
- 1 foot restraint, applied in 8-shaped configuration.

Important

Snap-hook restraints are the most recommended restraint system for use with the ScoopEXL stretcher with pin.

⚠ WARNING

The operator on the head end of the stretcher must always have contact with the patient and check that the alignment is correct

CHEST RESTRAINTS

1. Hook the snap-hook of the first chest restraint onto pin 9 (patient's right side). Pass the restraint over the shoulder and chest of the patient, hooking the second snap-hook onto pin 4 on the opposite side (patient's left side). Depending on the patient's height, the restraint can be hooked onto pin 3 or 4.
2. Hook the snap-hook of the second chest restraint onto pin 2 (patient's left side). Pass the restraint over the shoulder and chest of the patient, hooking the second snap-hook onto pin 7 (Figure 24) on the opposite side (patient's right side). Depending on the patient's height, the restraint can be hooked onto pin 7 or 8.
3. Properly adjust the restraint tension so that there is no particular constraint to the patient (Figure 25).

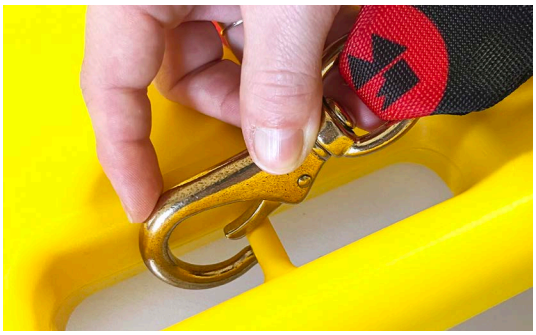


Figure 23 - Snap-hook restraint

WAIST RESTRAINT

1. Hook the first snap-hook to pin 7 (Figure 26).
2. Pass the restraint over the patient's legs.
3. Hook the second snap-hook to pin 4 on the opposite side.
4. Properly adjust the restraint so that there is no particular constraint to the patient (Figure 27).

Figure 24 - Application of the first chest restraint

Figure 26 - Leg restraint application

Figure 25 - Adjustment of chest restraints

Figure 27 - Leg restraint adjustment

FOOT RESTRAINT

1. Hook the first snap-hook to pin 6 on foot end.
2. Hook the second snap-hook to pin 5 on the opposite side.
3. Extend the restraint (Figure 28) to form an “8”.
4. Cross the restraint and insert the feet inside the loop (Figure 29).
5. Adjust the restraint so that the feet are correctly and firmly locked (Figure 30).
6. Once the restraints have been correctly applied and adjusted, gather any excess length for all of them and secure them so that they do not interfere with stretcher operations.

Important

If the 8-shaped configuration of the foot restraint is not possible or a splint has been applied to the patient, the restraint can be applied horizontally:

- Hook the first snap-hook to pin 6;
- Pass the restraint over the patient's shins;
- Hook the second snap-hook to pin 5 on the opposite side;
- Adjust the belt so that the feet are correctly and firmly locked.

Figure 28 - Extending the foot restraint

Figure 29 - Inserting the feet into the loop

Figure 30 - Correctly applied foot restraint

TWO-PIECE RESTRAINTS WITH METAL BUCKLE

(CODE: 430-2-N)

Apply two-piece restraints with plastic or metal buckles using the set-up explained in the chapters *Restraint arrangement and Restraint application - SNAP-HOOK RESTRAINTS.*

Follow the instructions below to apply the restraint:

1. Unfasten the restraint and divide it into two parts.
2. Pass one part of the restraint through the side handle of the stretcher.
3. Insert the buckle in the restraint loop (Figure 31A), then pull the restraint so that it wraps around the handle (Figure 31B).
4. Repeat steps 1 to 3 for the other restraint part.
5. Before performing any operation with the stretcher, check that all restraints are correctly and securely locked and that they are in good condition.

Figure 31 - Restraint application with "marlinspike hitch"

TWO-PIECE RESTRAINTS WITH PLASTIC BUCKLE

INTRA-HOSPITAL USE (CODE: 430-PA-2-N)

For intra-hospital use of the ScoopEXL stretcher, 430-PA-2-N restraints can be applied in a transverse configuration as shown in Figure 32.

1. Place the first restraint in the underarm position, hooking it into holes 9 and 2.
2. Apply the second restraint at waist level, hooking it into holes 8 and 3 or 7 and 4, depending on the patient's height.
3. Apply the third restraint transversely across the patient's shins, hooking it into holes 6 and 5.

Figure 32 - Configuration of 430-PA-2-N restraints for intra-hospital use

"SPIDER" 770-E RESTRAINT SYSTEM

(CODE: 770-E)

1. Open the 770-E restraint if it is rolled up on itself.
2. Adjust the length of the restraint according to the patient's height. To adjust the length, please refer to the 770-E restraint manual.
3. When the patient is on the stretcher, place the restraint system on it.
4. Pass each flap of the restraint through the respective handle of the scoop, passing it from the inside and closing it by turning it around the handle, matching the two Velcro straps (Figure 33).
5. Before performing any operation with the stretcher, check that all restraints are correctly and securely locked and that they are in good condition.

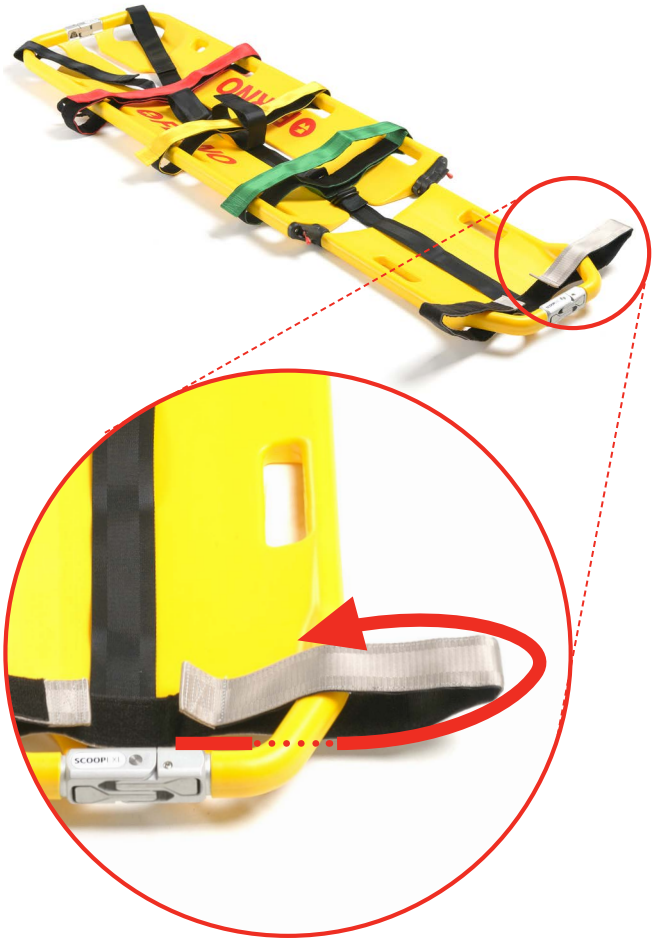


Figure 33 - 770-E restraint system

5.6 Semi-verticalisation procedure

The semi-verticalisation procedure must be performed by at least two operators trained and instructed in the use of the product.

⚠ WARNING

The decision to authorise the semi-verticalisation manoeuvre with the patient on the ScoopEXL stretcher is the responsibility of the rescue team.

This decision must take into account the patient's condition and the circumstances in which one is operating.

⚠ WARNING

Each PIN of the ScoopEXL has a maximum load capacity of 75 kg. It is therefore also necessary to take this into account before proceeding with semi-verticalisation.

Important

In the case of semi-verticalisation, make sure not to exceed an inclination of 70° and maintain this position for as long as necessary to carry out the manoeuvre.

⚠ WARNING

As this is a delicate manoeuvre, only perform semi-verticalisation if strictly necessary.

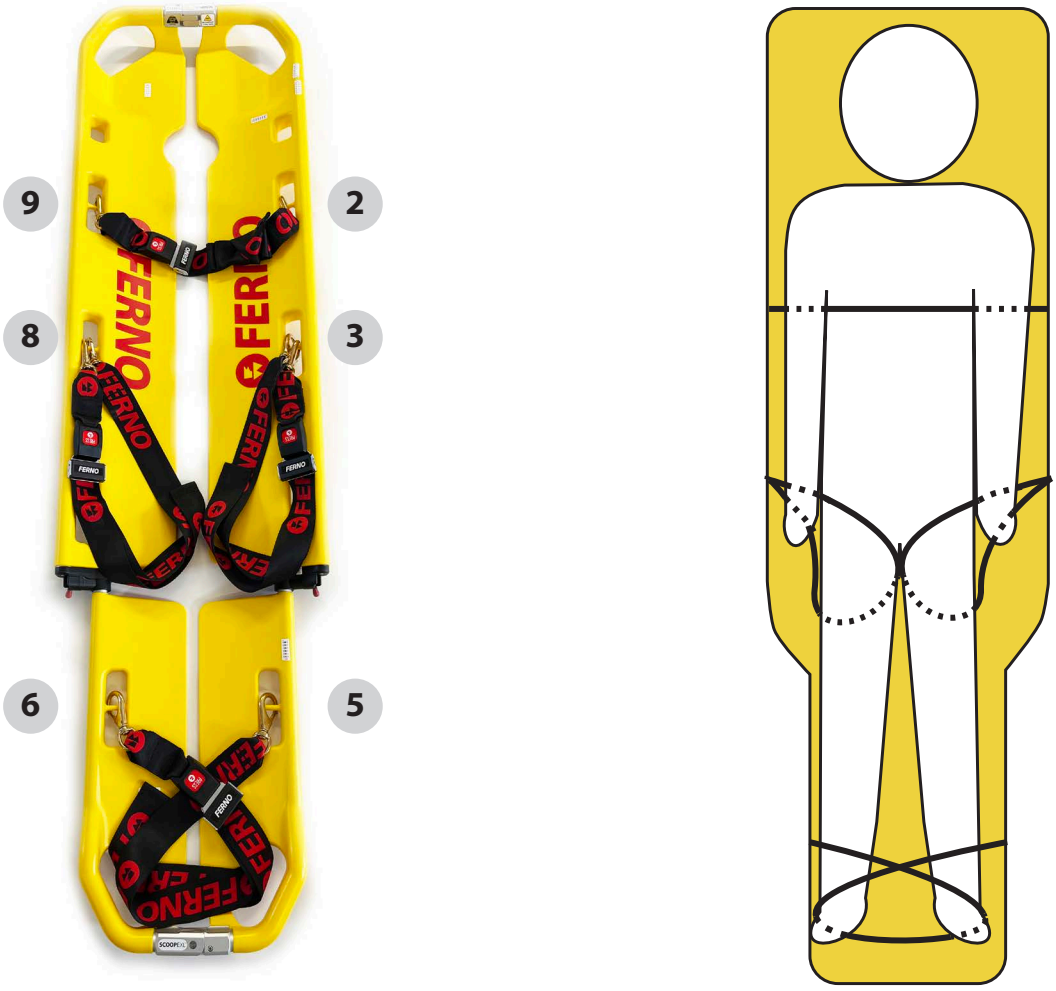


Figure 34 - Semi-verticalisation with snap-hook restraints

APPLYING THE RESTRAINTS

Once the patient has been placed on the stretcher and the head immobiliser has been applied, proceed as follows for semi-verticalisation.
Proceed with the application of the snap-hook restraints. 4 restraints are recommended:

- 1 chest restraint in transverse configuration (points 9 - 2)
- 2 groin restraints, each locked onto the same PIN (points 8 - 8 / 3 - 3)
- 1 foot restraint in 8-shaped configuration (points 6-5).

Apply the restraints as described in Figure 34.

CHEST RESTRAINT

1. Lock the first snap-hook into hole 2 (right side, operator view).
2. Pass the restraint under the patient's armpit; in the case of a female patient, the restraint should pass over the breast.
3. Hook the second snap-hook to hole 9 on the opposite side (left side, operator view).
4. Properly adjust the restraints so that there is no particular constraint to the patient.

GROIN RESTRAINTS

1. Attach both snap-hooks of the restraint to hole 3 (slightly above the iliac crest). Pass the longer end of the restraint between the patient's legs, making sure that it goes around their left leg, wrapping it at groin level. Then hook the snap-hook again to the same pin (hole 3), ensuring that the quick-release buckle remains in an external position in relation to the patient.
2. Perform the same operation on the opposite side with the right leg, locking the restraint into hole 8 (left side, operator view).
3. Properly adjust the restraints so that there is no particular constraint to the patient.

FOOT RESTRAINT

1. Lock the first restraint snap-hook into hole 6 on the foot end.
2. Lock the second restraint snap-hook into hole 5 on the opposite side.
3. Extend the restraint to form an “8”.
4. Cross the restraint and insert the feet inside the loop.
5. Adjust the belt so that the feet are correctly and firmly locked.
6. Once the restraints have been correctly applied and adjusted, gather any excess length for all of them and secure them so that they do not interfere with stretcher operations.
7. After completing the restraint application procedure, apply the H-shaped Velcro strap, which stabilises and secures the patient's head. **Apply the H-shaped Velcro strap only after completing the restraint fastening procedure.** The application of the H-shaped Velcro strap is described in chapter *“H”-shaped restraint application.*

Tip

Important

To improve patient comfort, insert “crosspieces/padding” at pressure points.

Important

Only perform the semi-verticalisation manoeuvre after attending a ScoopEXL stretcher training course.

5.7 "H"-shaped restraint application

After completing the restraint fastening procedure, apply the H-shaped restraint, which stabilises and secures the patient's head.

1. Place the centre of the strap on the patient's collar (Figure 35).

2. Insert the orange Velcro system inside the small side hole 10 (Figure 35; for location of hole 10, see Figure 22). Make the two parts adhere so that they wrap around the hole in the stretcher. Perform the same operation on the opposite side (hole number 1).

3. Insert the black Velcro system inside the head end carrying handle (Figure 36). Position it so that it is adjacent to the ear hole of the head immobiliser. Make the two parts adhere so that they wrap around the stretcher carrying handle. Perform the same operation on the opposite side.

4. Adjust the strap so that no excessive pressure is created on the neck.

Figure 35 - Strap application

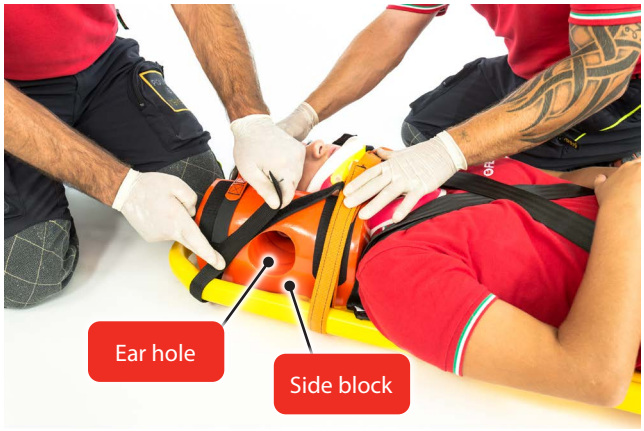


Figure 36 - Strap application

Important

Apply the H-shaped Velcro strap **only after** correctly fastening the restraints**.**

Figure 37 - Correct restraint application

⚠ WARNING

Improper use of the stretcher may cause damage and/or injury. Use the ScoopEXL stretcher as described in this manual.

⚠ WARNING

Untrained users may injure themselves, cause damage and/or physical harm. Allow only trained and qualified staff to use the ScoopEXL stretcher.

⚠ WARNING

Never exceed the load capacity of the stretcher specified in this manual.

5.8 Lifting and transport

Before any transport operation with the stretcher, ensure that:

1. The TSL systems are correctly engaged and locked (to correctly lock the stretcher, please refer to the section *Twin Safety Lock (TSL) System*).

2. The side locking levers are in the locked position, facing downwards (to lock the stretcher correctly, please refer to the section *Length adjustment*).

3.The cervical collar, head immobiliser and safety restraints have been applied to the patient and the patient is properly secured on the stretcher.

To immobilise the patient correctly on the stretcher, please refer to the section *Use of the stretcher*.

Move the stretcher carefully, if possible on smooth surfaces. Stretcher lifting and transport operations must be carried out by at least two trained and qualified operators.

For the transport of adult heavy patients, ask for additional help to lift and carry the stretcher (section *Additional help*).

In order to transport the stretcher, proceed as follows:

1. Stand at both ends (head end and foot end) of the stretcher. In the case of assistants, depending on their number, position yourself as indicated in the section *Additional help*.
2. Hold the lifting handles with the palms facing upwards.
3. **Both operators** coordinate and proceed with the lifting and transport of the stretcher and the patient. Use the appropriate techniques for lifting and carrying the stretcher.

Lift only the weight that a person can safely support. If necessary, use other trained personnel when lifting and carrying the stretcher. See section *Additional help*.

⚠ WARNING

Never connect lifting devices to the stretcher pins. The pins are only intended for connecting snap-hook restraints.

TRANSPORT ON A SELF-LOADING STRETCHER

When transporting the ScoopEXL on a self-loading stretcher, it must be securely fastened to avoid damage or injury to the patient or staff on board the vehicle.

⚠ WARNING

If you want to transport the trauma patient on the self-loading stretcher without removing the ScoopEXL, you must ensure that you have properly secured the patient to the ScoopEXL before placing the device on the self-loading stretcher.

Once the ScoopEXL has been positioned on the self-loading stretcher, proceed with fixing as follows:

1. Apply the four-point restraint as if the patient were not already restrained on the ScoopEXL, thus passing it over both the atraumatic stretcher and the patient's shoulders.

2. Apply the femoral restraint of the self-loading stretcher as if the patient were not already strapped onto the ScoopEXL, thus passing it over both the atraumatic stretcher and the patient.

3. Attach the two-piece foot restraint of the self-loading stretcher inside the foot end handles of the ScoopEXL, as shown in the figure. (Figure 38)

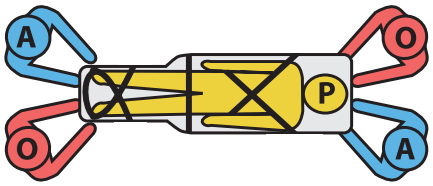
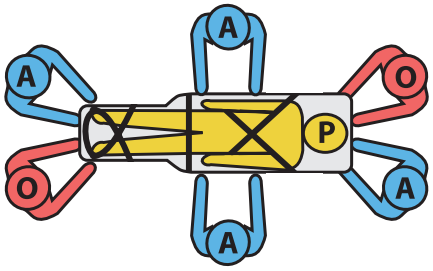
Figure 38 - Correct ScoopEXL immobilisation to the self-loading stretcher.

5.9 Additional help

The stretcher must be used by at least two trained and qualified operators.

The operators may need additional help for lifting heavy patients. When assistants are present, the operators must position themselves one at the head end and one at the foot end of the stretcher, always maintaining control of the stretcher and directing the assistants.

The illustrations below show the positioning of operators and assistants. It is very important that the operators are always at opposite ends, so that they maintain visual contact with each other.

Lifting and transport	
Two operators + two assistants	
Two operators + four assistants	

Legend: O = Operator, A = Assistant, P = Patient

⚠ WARNINGS

Untrained assistants may cause damage and/or physical harm, or injure themselves. Do not allow occasional assistants to carry out the preparation of the stretcher. Take extreme care during all operations.

Load capacity

Never exceed the load capacity of the ScoopEXL stretcher. Inspect the stretcher if you suspect that the load capacity has been exceeded (see section *Inspection*).

6 - BARIATRIC TRANSPORT

6.1 General guidelines

To perform bariatric transport:

1. Follow local regulations for the bariatric transport.

2. Use all necessary assistants to transport the patient safely (section *Additional help*).

6.2 Use of the TSL Expander Kit

The TSL Expander Kit is an optional ScoopEXL accessory (section *Accessories*) and consists of two Twin Safety Lock extenders, three 430-2-N restraint extensions and their small storage bag.

Expanders are attached to each end of the ScoopEXL and increase its width by 95mm/3.75”.

To use the TSL Expander Kit:

1. Divide the ScoopEXL into two halves.

2. Apply JUST ONE Extender per side.

3. Check that the stretcher is properly closed.

4. Attach 430-2-N restraint extensions if necessary.

To remove the TSL Expander Kit:

1. Remove the restraint extension.

2. Press the Twin Safety Lock levers to disconnect the Expander from each half.

3. Repeat the operation for the opposite end.

For more information, please refer to the TSL Expander Kit manual.

Important

The loading capacity of the stretcher equals the weight of the patient plus any accessories and equipment carried on the stretcher.

Exceeding the load capacity can damage the stretcher and cause harm and injury to the patient.

Inspect the stretcher and the restraints immediately if you suspect that the load capacity has been exceeded.

Figure 39A and 39B - Application of the TSL Expander

⚠ WARNING

Use the TSL Expander Kit only with bariatric patients.

⚠ WARNING

Improper bariatric transport can cause harm to the patient, operators and possible assistants. Follow the local protocols and instructions in this manual and the TSL Expander Kit manual.

Lifting heavy loads may cause damage and/or injury. Use all additional assistants necessary for safe transport.

Improper use or installation of TSL Expanders may cause damage and/or injury. Use only with bariatric patients.

Important

Only use restraints with metal fasteners (430-2-N) when using the extensions supplied with the TSL Expander Kit. TSL Expander Kit restraints are not compatible with restraints with plastic buckles.

7 - MAINTENANCE

7.1 Periodic maintenance and preventive checks

The stretcher is a medical device requiring regular maintenance, hence you are recommended to comply with the following schedule:

* PERIODIC maintenance: the stretcher has to be subjected to a yearly maintenance operation by Ferno qualified technicians.

* PREVENTIVE checks: preventive maintenance operations are to be carried out by the user, as specified in the table below.

Intervals of Preventive maintenance	After each use	Whenever necessary	Every month
Disinfection	•	•	
Cleaning		•	•
Inspection	•	•	•
Lubrication		•	

If the device undergoes particularly heavy use, checks should preferably be carried out on a more frequent basis. If there are signs of wear and damage, discontinue use of the device and immediately contact Ferno's Technical Support Service.

Ferno directly carries out repair maintenance operations, without the need of dealers, mechanics or external service centres. You are thus invited to be wary of those who present themselves as Ferno's authorised technician.

7.2 Disinfection

1. After each use, clean the surfaces of the stretcher with a non-abrasive surface disinfectant.

2. Do not immerse the stretcher directly in disinfectant.

3. During disinfection, ensure there are no signs of wear and/or damage.

4. Dry with a cloth. Ensure that all the components of the device are completely dry before reusing the device.

It is advisable to wear suitable gloves (e.g. household or disposable gloves) during disinfection.

DISINFECTING THE DEVICE

1) Remove restraints and any other accessory from the device.

2) Disinfect all equipment (including device accessories such as cushions, restraints, etc.) with a cloth or sponge dampened with disinfectant solution, let it sit for 10-20 minutes. Use brushes to rub and clean the least accessible parts.

3) Wipe with a cloth to rinse and dry the treated surfaces, make sure that all the device components are completely dry before using them.

4) After cleaning, be sure to replace on the device the restraints and/or any other accessory that was removed.

Warning: during disinfection, use gloves and the appropriate PPE according to the risk assessment guide.

Also ensure there are no signs of wear and/or damage.

⚠ WARNING

Disinfectants and detergents containing phenols (if above the threshold of 2500 ppm), chlorine (bleach) or iodine-based solutions can cause damage. Do not use products containing these chemicals.

7.3 Cleaning

To ensure optimal use of the stretcher, it is important to keep all the components in good conditions and to remove all traces of dirt, debris and body fluids.

1. Remove the restraints.

2. Wash all components of the product with a cloth or sponge dampened with detergent solution.

3. If necessary, remove stains with a stiff bristle brush (not metal), or a light solvent, paying attention to the labels.

4. Use a cloth to rinse and dry the treated surfaces, make sure that all the device's components are completely dry before using them.

5. After cleaning, be sure to replace on the device the restraints and any other accessory that was removed after cleaning and disinfecting them.

⚠ WARNING

Improper maintenance may cause serious accidents and/or damage. Perform maintenance as instructed in this user manual.

Warning: during disinfection, use gloves and the appropriate PPE according to the risk assessment guide.

Also ensure there are no signs of wear and/or damage.

CLEANING RESTRAINTS WITH METAL BUCKLES

The sanitisation of restraints must be carried out at the end of the shift or after each transport, if necessary.

When there is no contamination from organic substances, it is possible to just disinfect the restraint by directly spraying it with disinfectant and leaving it to dry. In case of surfaces visibly contaminated by organic substances proceed with decontamination according to the following procedure:

1. Wear suitable PPE based on the Risk Assessment Document.
2. Before starting the sanitisation, remove the restraints from the device and stretch them to their maximum length.
3. Remove the material using a disposable cloth and/or paper and dispose of it in the specific container for special waste.
4. Sanitisation is carried out by immersing the restraints in a container and leaving them to soak in water with sanitising product, leaving the metal and plastic part outside the container. Leave to soak for approx. 5-20 minutes then dry with paper. If the buckle needs more thorough cleaning, it can be washed with mild soap and water, taking care to rinse it well, ensuring that it does not soak for more than 5 minutes.
5. Afterwards hook up all buckles together and hang the restraints to a support. If the buckles have also been mistakenly soaked, make sure the restraint dries as quickly as possible to ensure its longevity.
6. Re-fit the restraints only once they are dry.

⚠ WARNING

Never wash restraints with metal buckles in a washing machine and/or tumble dryer.

CLEANING RESTRAINTS WITH PLASTIC BUCKLES

1. Remove the restraints from the product.
2. Place the restraints inside a mesh bag (not supplied with the products) and put it in the washing machine.
3. Wash the restraints with hot water using a cleaning and disinfecting product and selecting a cycle for delicate items, with slow spin. Do not bleach.
4. Remove the restraints from the mesh bag and let them dry in the open air. Do not tumble dry.
5. Re-fit the restraints only once they are dry.

⚠ WARNING

Improper maintenance may cause serious accidents and/or damage. Perform maintenance as instructed in this user manual.

Important

When not in use, store the stretcher in an indoor environment that is dry and protected from direct sunlight.

Important

After disinfection/cleaning, ensure that the stretcher and its components are completely dry before use.

Important

DO NOT WASH WITH HIGH PRESSURE WATER

Do not use high pressure water to clean the stretcher.

7.4 Inspection

To ensure optimal use of the stretcher, it is important to keep all the components in good conditions and to remove all traces of dirt, debris and body fluids. The stretcher must be inspected before and after use and must be cleaned after each use. When not in use, it must be stored in a dry, indoor environment and inspected at least once a month.

The stretcher should be inspected regularly by maintenance personnel. Carry out the checks indicated in the box *Checklist for inspection of the stretcher*.

If signs of wear or damage are found during inspection, discontinue use of the stretcher and immediately contact Ferno's Technical Support Service for repairs or maintenance. See chapter *Ferno Technical Support Service*.

CHECKLIST FOR INSPECTION OF THE STRETCHER

- Are all the components present?
- Are all screws, pins and levers correctly and firmly positioned?
- Do all mobile parts move normally and correctly?
- Does the stretcher have any worn or damaged parts?
- Are there cracks, holes or deformations in the panels or tubular elements?
- Do the TSLs open and close correctly, without any particular friction?
- When the stretcher is fully extended, are the hinges visible, firmly attached and properly functioning?
- Are the serial number and other information printed on the back of the device clearly legible?
- Are restraints in good conditions? Do they show cuts or worn edges?
- Do restraint buckles show visible damage? Do they work correctly?
- Do any installed accessories work properly without interfering with the operation of the stretcher?

7.5 Lubrication

Clean and disinfect the stretcher before lubrication. Use specific lubricants.

The head end and foot end TSLs are lubricated when the stretcher is assembled, but may require additional lubrication, if necessary, during normal use.

You can choose one of the following lubrication methods A, B or C:

A. DRY SPRAY LUBRICANT: spray a small amount of lubricant onto the sliding surfaces of the TSLs. Remove any excess.

B. VASELINE OIL SPRAY LUBRICANT: spray a small amount of lubricant onto the sliding surfaces of the TSLs. Remove any excess.

B. SILICONE SPRAY LUBRICANT: spray a small amount of lubricant onto the sliding surfaces of the TSLs. Remove any excess.

Important

Unrequired lubrication may damage components that must not be lubricated, because dirt and foreign particles could build up. Lubricate **only** the components indicated.

7.6 Checking and locking the TSLs

There are two threaded pins in each Twin Safety Lock (TSL) system.

Check that they are securely fastened and, if a pin has come loose, immediately contact Ferno S.R.L. Technical Support Service and put the device out of service.

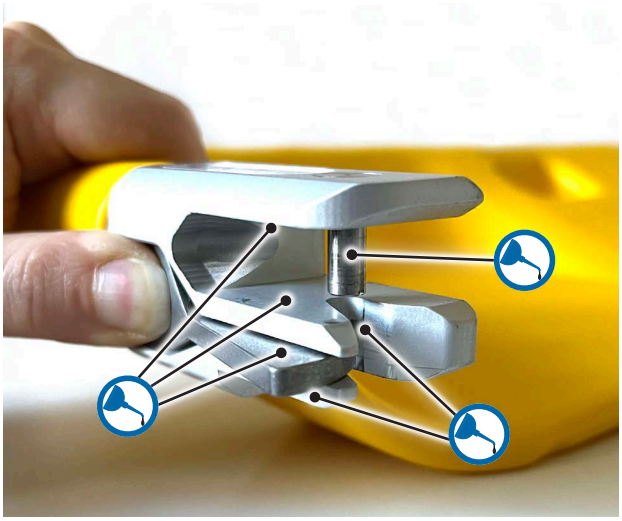


Figure 40 - TSL lubrication points

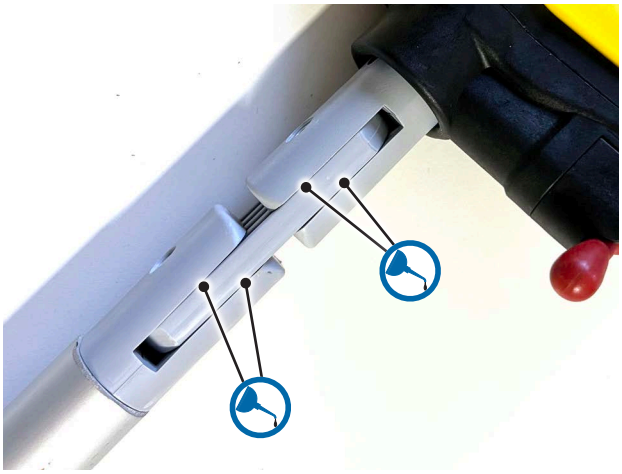


Figure 41 - Hinge lubrication points

7.7 Storage

The stretcher must be stored clean, indoors, in a dry place and away from direct sunlight. When not in use, it can be put into its handy carry bag (Figure 41).

To store the stretcher inside the carry bag, it is necessary to separate the two halves of the ScoopEXL by opening the TSLs, folding each half back on itself and overlapping them so that they fit inside the bag. To fold the stretcher correctly, please refer to the section *How to fold the stretcher*.

Figure 42 - Storage bag

7.8 Disposal

After use, the ScoopEXL stretcher could potentially be contaminated with pathogens of communicable diseases. The user is responsible for the proper disposal of this organic waste.

The ScoopEXL and/or its spare parts must be cleaned and disinfected according to regulations before any transport and disposal.

Disposal must be carried out according to local regulations and the internal procedures of the responsible organisation.

Do not dispose of with household waste.

8 - ACCESSORIES

8.1 ScoopEXL Stretcher accessories

Ferno offers several accessories approved for use with the ScoopEXL stretcher. Always follow the directions in this instruction manual. For more product information, contact Ferno's Customer Service.

⚠ WARNING

The use of improper and/or non-certified devices may cause accidents, damage, and/or injury. Any other combination that does not include products from the Ferno line must be used only after the user has checked the absolute compatibility with the ScoopEXL and the compliance with the standard EN 1865.

Description	Part no.
B-lock head immobiliser	21-00022
B-lock transport/storage bag	10-9900-005
Saerbag III	SAERBAG III-Y
WizLoc 449-I cervical collar (3pcs.)	0822074
WizLoc military cervical collar (1pc.)	0819759
Easy Lift lifting sling for ScoopEXL	PS0765EXL
Emergency bag/backpack	FBI300000
Combi bag / cover	FBI300001
Vertical locking system	561-V
TSL Expander kit	25-0030-002
Pedi-Sleeve	0313923

B-lock

Emergency bag/backpack

B-lock transport/ storage bag

Combi bag / cover

Saerbag III

Vertical locking system

Pedi-sleeve

TSL Expander kit

Easy Lift

Wizloc / military Wizloc

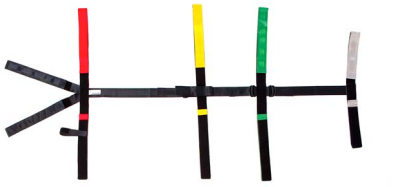
8.2 Patient restraints

Description	Part no.
Two-piece 773 restraints with metal buckle and snap-hook	0314122
"Spider" restraint system	770-E
Two-piece restraints with plastic buckle, black with red logo	430-PA-2-N
Two-piece restraint with metal buckle, black with red logo	430-2-N

⚠ WARNING

Applying improper or unsuitable devices to the stretcher may result in injury. Use compatible Ferno restraints only.

Two-piece 773 restraint with snap-hook



"Spider" restraint system (770-E)

Two-piece restraint with plastic buckle

Two-piece restraint with metal buckle

9 - TECHNICAL SUPPORT

9.1 Technical Support Service

For technical support concerning our products, contact the Ferno S.R.L. Technical Support Service.

Phone (toll-free for Italy)	800.501.711
Phone	0039 0516860028
Fax	0039 0516861508
E-mail	info.it@ferno.com
Website	www.ferno.it

For information on the use of the ScoopEXL stretcher, and to schedule training courses on its correct use, contact the Ferno S.R.L. Customer Service.

⚠ WARNING

Non-original spare parts and inadequate repairs may cause damage and/or injury. Use only original Ferno spare parts and refer exclusively to Ferno S.R.L.'s Customer Support.

⚠ WARNING

Unauthorised modifications of the ScoopEXL stretcher could cause serious damage, injury and/or unforeseeable operating problems. Do not modify or alter the stretcher in any way.

10 - WARRANTY

10.1 Warranty terms and conditions

Ferno's products are guaranteed against manufacturing defects for a period of 24 months from the date on the Ferno s.r.l. shipping document.

Ferno guarantees its spare parts and reconditioned devices for a period of 12 months unless otherwise stated.

During the warranty period, Ferno will repair and/or replace any parts found to have manufacturing defects free of charge, excluding the costs of labour, travel, transport, and packaging.

The warranty does not cover consumables or parts subject to wear and tear due to normal use of the product, all parts typically subjected to sliding or rolling friction, parts potentially exposed to oxidation or corrosion (copper or metal alloy contacts, mechanical equipment).

On new devices, the surface finishes (gelcoat/resin, paint, powder paint, decals, tape, inscriptions, etc.) are guaranteed for 90 days.

Repairs are performed by trained technical staff at the Ferno s.r.l. site in Via Zallone 26- 40066 Pieve di Cento (BO), Italy or at the Customer's premises if suitable arrangements with Ferno s.r.l.'s Customer Service have been made.

Technical support at the Customer's premises must be arranged beforehand and involves a refund of costs incurred and documented on request.

For information on the costs of technical support, please contact the relevant department at Ferno s.r.l..

Repairs are guaranteed for 6 months from the date of repair. This warranty applies only when the product is used according to the instructions in the user manual provided. Misuse and negligence invalidate this warranty.

The warranty is valid from the day the product is shipped from Ferno s.r.l., and the shipping costs are not covered by this warranty. Ferno s.r.l. is not liable for damages incurred during shipment or due to misuse of the product.

Ferno s.r.l. accepts no liability for products manufactured by others.

The warranty is rendered null and void in the case of:

- failure to observe the operating instructions,

- misuse,

- inappropriate use or handling,

- intervention by unauthorised personnel

- damage during transport due to improper packaging of items returned by the user,

- failure to perform periodic maintenance or preventive checks (see definitions in section *Maintenance*),

- failure to use original spare parts.

In cases not covered by the warranty, Ferno will not cover the transport costs for sending or returning the product.

10.2 Limitation of liability

If a product is found to be defective, Ferno s.r.l. will repair, replace it, or refund the purchase price. Under no circumstances can Ferno s.r.l. be held liable for more than the selling price of the product. The buyer accepts these conditions for all types of damage. Ferno s.r.l. does not offer other warranties, either express or implied, or any implied warranties of saleability or fitness for a particular purpose for its own products, or those manufactured by others.

In case of infringement of the limited warranty, any legal actions must be filed within one year from the date on which the infringement was, or should have been, discovered. Ferno s.r.l. reserves the right to terminate the warranty of the products sold:

- if the labels or plates bearing the Manufacturer's logo and/or the serial or registration number are rendered illegible or removed;

- if the product has undergone modifications, repairs or treatment not authorised by Ferno.

- if the product is not used in compliance with the instructions, and/or used for purposes other than those for which it was designed;

- further to the conditions indicated in section "*Warranty Terms and Conditions*".

Ferno s.r.l. cannot, in any event, be held liable for direct or indirect damage due to usage that is non-compliant with the instructions in the user manual or the intended purpose of the product.

10.3 Warranty claims

Contact Ferno's Customer Service immediately if you receive a product that is suspected to be defective. An agent will assist the customer through the complaints procedure. Before returning a product to Ferno s.r.l., contact Ferno's Customer Service to request authorisation.

10.4 Complaints

Any complaints must be communicated to the reseller, or to Ferno s.r.l.'s Customer Service, within 5 days of receipt of the product or of discovery of the alleged defect.

Claims or disputes regarding a single product shall not release the buyer from the obligation to collect and pay for other products in the order, unless otherwise agreed with the seller.

10.5 Return authorisation

No return will be accepted without the prior approval of Ferno s.r.l..

Products returned for business reasons, or for reasons not relating to nonconformity, will be accepted only after verification of their condition by Ferno s.r.l.'s qualified personnel.

TRAINING RECORD		
Date	**Instructor Name**	**Training Type**

TRAINING RECORD		
Date	**Instructor Name**	**Training Type**

RECORDING OF PREVENTIVE INSPECTIONS		
Date	**Type of inspection**	**Technical**

RECORDING OF PREVENTIVE INSPECTIONS		
Date	**Type of inspection**	**Technical**

Product User and Maintenance Manual, required to operate the product safely, maintain its efficiency and reliability, and comply with the terms of the warranty.

Rel.19012024
English translation of the original User Manual

Ferno s.r.l.
Via Benedetto Zallone 26
40066 - Pieve di Cento (BO) - ITALY

Telephone (toll-free for Italy)	800 501 711
Phone	0039 0516860028
Fax	0039 0516861508
Website	www.ferno.it

Ferno s.r.l., Pieve di Cento, Subsidiary of Savosa
Via Tesserete, 67, 6942 Savosa - SWITZERLAND

Telephone	+41 (0) 412596000
E-mail	info.ch@ferno.com
Website	www.ferno.-schweiz.ch