

# SEGUFIX®-Stretcher Restraint

## Item 5243 / 5343 / 5443

### Consisting of:

- 1 SEGUFIX®-Stretcher Strap Shoulder
- 3 SEGUFIX®-Locks
- 1 SEGUFIX®-Key

**Sizes:** S / M / L

**\*Component part:** item 5143



### 3 Versions → SEGUFIX®-Locks:

1206 / 1208	1306 / 1308	1406 / 1408
Item 5243	Item 5343	Item 5443
Item 2224	Item 2324	Item 2424
Item 5245	Item 5345	Item 5445

## Item 2224 / 2324 / 2424

### Consisting of:

- 2 SEGUFIX®-Hand Straps extended
- 4 SEGUFIX®-Locks
- 1 SEGUFIX®-Key

**Sizes:** S / M / L / XL

**Versions:** basic version / r

**\*Component part:** item 2124 (for one hand)

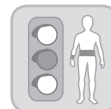
## Item 2724 (with Velcro® Fastener)

### Consisting of:

- 2 SEGUFIX®-Hand Straps extended Velcro® (with buckle lock)

**Size:** M

**\*Component part:** item 2824 (for one hand)



## Item 5245 / 5345 / 5445

### Consisting of:

- 1 SEGUFIX®-Stretcher Strap Foot (for both feet)
- 2 SEGUFIX®-Locks (key not included)

**Size:** M

**\*Component part:** item 5145 (for both feet)

## Item 5745 (with Velcro® Fastener)

### Consisting of:

- 1 SEGUFIX®-Stretcher Strap Foot Velcro® (with buckle lock, for both feet)

**Size:** M



**\*Component part:** locks and keys not included

The SEGUFIX®-Stretcher Restraint (red, yellow, green label) is part of the SEGUFIX® Mobile Restraint and is made from a cotton/rayon mix.



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### Versions – Item no. / identification

Item no. Version	Product features
...	Basic version
.../r	Eyelet strap reinforced for higher demands



Example of use:  
Item 5243, 2724, 5745

# SEGUFIX®-Stretcher Restraint

## 3 Locking Systems:

**Item 5243 / 5343 / 5443** (Shoulder)

**Item 2224 / 2324 / 2424** (Hand)

**Item 5245 / 5345 / 5445** (Foot)

**Item 5243 / 5343 / 5443** (Shoulder: select one of three locking systems)

**Item 2724** (Hand with Velcro® Fastener)

**Item 5745** (Foot with Velcro® Fastener)



## Intended use:

- To secure patients on stretchers
- Also compatible with ambulance services
- SEGUFIX®-Hand Restraint extended and SEGUFIX®-Stretcher Restraint Foot required
- Physically restraining patients

## Instructions for use

**item 5243 / 5343 / 5443** (Shoulder) / **item 5143** (Shoulder: Component part)

**item 5245 / 5345 / 5445 / 5745** (Foot) / **item 5145** (Foot: Component part)

## Locks and keys see pages 6 and 7

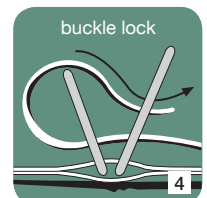
The SEGUFIX®-Stretcher Restraint is compatible with stretcher widths of 400 mm to max. 800 mm / 15.8 inches to max. 31.5 inches. Attaches to the stretcher with buckle locks.

## How to attach the SEGUFIX®-Stretcher Restraint Shoulder/-Foot to the stretcher:

- Lay the Stretcher Strap onto the stretcher, so that the padded shoulder straps (C) are pointed towards the head of the stretcher, the foot cuffs are lying on top.
- Direct the attachment strap (A) from inside out around the stretcher frame or the frame of the folding part of the stretcher. Install the attachment strap in such manner that it cannot slide along the stretcher frame.

Be sure to pull the attachment strap firmly down and then up around the frame, and close the buckle lock (1).

- Install the second attachment strap in the same manner.
- Test the buckle locks for a secure hold.
- The attachment straps must be attached very tightly to the stretcher.



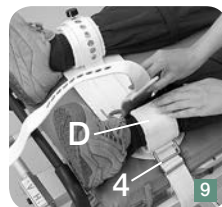
## How to fasten the Stretcher Restraint Shoulder to the patient:

- Insert the pins of the three locks (2) through the respective eyelets of the pin flap. The metal pins must point up when the chest strap is closed.
- Wrap the chest strap (B) around the patient's chest with one eyelet over each of the three pins of the locks (2). The many eyelets allow for the gradual adjustment of the chest strap.
- Close the middle lock (2).
- Pull both shoulder straps (C) over the shoulders, lay them with an eyelet onto the outer pins of the locks (2) of the chest strap (B).
- Close the outer locks (2).
- Make sure that none of the shoulder straps hinder or restrict the patient's neck or throat.
- The shoulder straps must fit snugly, but not restrict breathing.



## How to fasten the Stretcher Restraint Foot to the patient:

- Insert the pin of the lock (3) through the eyelet of the pin flap.
- Wrap the padded part of the foot strap (D) tightly around the patient's ankle. The Velcro® fastener prevents slipping after closing.
- Insert the eyelet strap (E) through the metal buckle (4) and pull it tightly back over the metal buckle.
- Lay the eyelet strap of the foot strap (E) tightly with an eyelet over the pin of the lock (3).
- Close the lock (3).
- The foot strap must fit snugly, but not restrict blood circulation.
- Install the second foot strap in the same manner.
- Pull on each lock to test for a secure hold.



## How to fasten the Stretcher Restraint Foot Velcro® to the patient:

- Wrap the padded part of the foot strap (D) tightly around the patient's ankle. The Velcro® fastener on the prevents slipping after closing.
- Insert the end of the strap (E) through the metal buckle (4) and pull it tightly back over the metal buckle.
- Pull the fastening strap (E) tight and close the buckle lock (4) (see fig. 4).
- The foot strap must fit snugly, but not restrict blood circulation.
- Fasten the second foot strap in the same manner.
- Test the buckle locks for a secure hold.

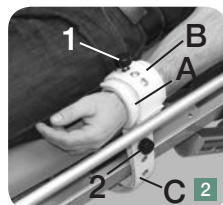


## Instructions for use item 2224 / 2324 / 2424 and 2124

Locks and keys see pages 6 and 7

### How to attach the Hand Restraint extended:

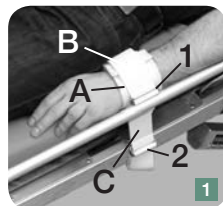
- Insert the pin of the lock (1 and 2) through the eyelets of the pin flap.
- Wrap the padded cuff of the hand strap (A) tightly around the patient's wrist. The Velcro® fastener prevents slipping after closing.
- Insert the eyelet strap (B) through the metal loop and pull it tightly back over the metal loop.
- Lay the eyelet strap (B) tightly with an eyelet over the pin of the lock (1) and close the lock.
- Direct the attachment strap (C) from inside out around the stretcher frame. The many eyelets allow for the gradual adjustment of the restraint.
- Lay one of the eyelets over the pin of the lock (2) and close the lock. The many eyelets allow for the gradual adjustment of the restraint.
- Fasten the second hand strap in the same manner if needed.
- The cuff of the hand strap should be snug but should not restrict blood circulation.
- Pull on each lock to test for a secure hold.



## Instructions for use item 2724 with Velcro® Fastener

### How to attach the SEGUFIX®-Hand Restraint extended Velcro®:

- Wrap the padded cuff (A) snugly around the patient's wrist.
- Insert the strap (B) through the buckle lock (1) as shown in fig. 4 (page 2), and pull the strap tight.
- Direct the attachment strap (C) from inside out around the stretcher frame. Attach the strap in such manner that it cannot slide along the stretcher frame.
- For closing insert the end of the strap through the buckle lock (2) and pull the strap tight.
- The cuff of the hand strap should be snug but should not restrict blood circulation.
- Fasten the second hand strap in the same manner if needed.
- Test the buckle locks for a secure hold.



### How to release the SEGUFIX®-Stretcher Restraint and remove it:

See page 7 on how to open the respective locking systems.

- Open the locks (1, 2, 3) or the buckle locks (1, 2, 4) and lift all belt parts from the stretcher.
- Remove the restraint from the stretcher and the patient.

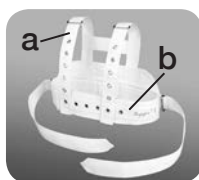
**Follow SEGUFIX®-Safety Information and Warnings on pages 8 - 11**

**WARNING:** Read the Safety Information prior to using the SEGUFIX®-Stretcher Restraint.

- The SEGUFIX®-Stretcher Restraint does not prevent a stretcher from tipping over or inadvertent rolling.
- The SEGUFIX®-Stretcher Restraint Shoulder may only be used in connection with the Hand Restraint extended and the Stretcher Restraint Foot.
- The SEGUFIX® Hand Restraint extended Velcro® and the SEGUFIX® Stretcher Restraint Foot Velcro® are not a restraint (note: some jurisdictions consider Velcro® products as a restraint, should the patient not be able to remove them without help).
- Note that attachment straps and moving mechanics of the stretchers may interfere with each other, causing damage, loss of function and injury.
- For more product info visit us online at [www.segufix.com](http://www.segufix.com) or [www.segufix-shop.com](http://www.segufix-shop.com)

SEGUFIX®-Stretcher Restraint														
Size	Item	kg	Item	kg	Item	kg	Com- ponent part	kg	mm	Inches	mm		Inches	
SEGUFIX®-Stretcher Restraint Shoulder									Chest girth		Length of strap			
											a	b	a	b
S	5243	0,69	5343	0,84	5443	0,84	5143	0,63	430 - 740	16.9 - 47.2	500	810	19.7	31.9
M	5243	0,74	5343	0,89	5443	0,89	5143	0,70	740 - 1140	29.1 - 44.9	605	1213	23.8	48.4
L	5243	0,82	5343	0,97	5443	0,97	5143	0,70	920 - 1320	36.2 - 52.0	710	1450	28.0	57.1
SEGUFIX®-Hand Restraint extended									Wrist girth		Length of strap			
S	2224	0,62	2324	0,70	2424	0,70	2124	0,27	120 - 190	4.7 - 7.5	1360		53.6	
M	2224	0,67	2324	0,75	2424	0,75	2124	0,29	160 - 240	6.3 - 9.5	1360		53.6	
L	2224	0,72	2324	0,80	2424	0,80	2124	0,30	220 - 290	8.7 -11.4	1490		58.7	
S	2224/r	0,66	2324/r	0,75	2424/r	0,75	2124/r	0,28	120 - 190	4.7 - 7.5	1360		53.6	
M	2224/r	0,71	2324/r	0,79	2424/r	0,79	2124/r	0,30	160 - 240	6.3 - 9.5	1360		53.6	
L	2224/r	0,77	2324/r	0,85	2424/r	0,85	2124/r	0,33	220 - 290	8.7 -11.4	1490		58.7	
XL	2224/r	0,83	2324/r	0,91	2424/r	0,91	2124/r	0,36	260 - 340	10.2 -13.4	1640		64.6	
SEGUFIX®-Hand Restraint extended Velcro®									Wrist girth		Length of strap			
M	2724	0,48	-	-	-	-	2824	0,24	160 - 240	6.3 - 9.5	1490		58.7	
SEGUFIX®-Stretcher Restraint Foot									Ankle girth		Length of strap			
M	5245	0,68	5345	0,78	5445	0,78	5145	0,64	220 - 300	8.7 -11.8	1400		55.1	
SEGUFIX®-Stretcher Restraint Foot Velcro®									Ankle girth		Length of strap			
M	5745	0,52	-	-	-	-	-	-	220 - 300	8.7 -11.8	1400		55.1	

Width of strap		
Hand Strap	45 mm	1.8 inches
Foot Strap	45 mm	1.8 inches
Shoulder Strap		
Strap a	45 mm	1.8 inches
Strap b	75 mm	3.0 inches



The Stretcher Restraint is compatible with stretcher widths of 400 mm to max. 800 mm / 15.8 inches to max. 31.5 inches. Attaches to the stretcher with buckles locks.

Tables: approximate measurements – about 8 % shrinkage possible (products are not pre-washed)



## SEGUFIX®-Magnetic locking system black

Item	Consisting of:
1206	1 Magnetic Button black / segufix.com 1 Metal Pin
1208	1 Magnetic Key red
1204	1 Magnetic Button black / segufix.com
1205	1 Metal Pin
1209	1 Magnetic Key red with key ring



## SEGUFIX®-Patent Twist locking system green

Item	Consisting of:
1306	1 Patent Twist Button green 1 Square Pin
1308	1 Patent Twist Key yellow
1304	1 Patent Twist Button green
1305	1 Square Pin

### Intended use of the Lock:

Closing of the SEGUFIX® systems.

### Intended use of the Key:

Quick release of the locks.

**Caution:** Each locking system only works with its own component parts and is not interchangeable with other locking systems.



## Push locking system

Item	Consisting of:
1406	1 Push Button 1 Push Pin
1408	1 Push Lock Key
1404	1 Push Button
1405	1 Push Pin



**WARNING:** Read the Safety Information prior to using the SEGUFIX®-Locks and Keys.

- Do not submerge locks in any type of liquid. This can cause malfunction.
- Locks and keys must not be laundered.
- Test locks for proper function before each use.
- Examine the head of the pin for damage (wear and tear, rounding off or deformation).
- When closing the lock make sure that the button locks securely onto the pin. You should not be able to pull the button off of the pin.
- When opening locks, ensure movement between the upper and lower points of contact (item 1206). Therefore each lock can hold up to a maximum of 4 belt layers (exception: products with "r" or "f" in the item number have thicker belts. These allow for a maximum of 3 belt layers!). When using the Patent Twist Lock (item no. 1306) use no more than 4 belt layers. When using the Push Lock (item no. 1406) use no more than 3 belt layers.
- If damaged locks fail to open, straps can be cut with scissors or belt cutters.
- For more product info visit us online at [www.segufix.com](http://www.segufix.com) or [www.segufix-shop.com](http://www.segufix-shop.com)

## Instructions for use: SEGUFIX®-Locks and Keys

**Item 1206 / 1208** (SEGUFIX®-Magnetic locking system black)

**Item 1306 / 1308** (SEGUFIX®-Patent Twist locking system green)

**Item 1406 / 1408** (Push locking system)

### How to open the Locks:

#### Item 1206 / 1208

- Set the red Magnetic Key with a light push on top of the black Magnetic Lock.
- Lift both the Magnetic Key and the Magnetic Button off of the Metal Pin (fig. 1).



#### Item 1306 / 1308

- Set the yellow Magnetic Twist Key on top of the green Magnetic Twist Lock.
- Unlock the Patent Twist Lock by turning the Patent Twist Key, and then lift both the Patent Twist Key and the Patent Twist Button off of the Square Pin (fig. 3).



#### Item 1406 / 1408

- Push the two pins of the Push Lock Key into the holes on top of the Push Button to unlock.
- Lift both the Push Lock Key and the Push Button off of the Push Pin (fig. 2).



### How to close the Locks:

- Set the respective button with the opening onto the pin so that it locks in place.
- Now test the lock for a secure hold: You should not be able to pull the button off of the pin.

**Caution:** Each locking system only works with its own component parts and is not interchangeable with other locking systems.

**Follow SEGUFIX®-Safety Information and Warnings on pages 8 - 11**

The following instructions for use are only applicable to original SEGUFIX® products. Do not use the SEGUFIX®-Restraint and Positioning System until you have read and understood the instructions for use.

Only use up-to-date instructions and keep them in a safe and readily available location. Product and instruction must match. Failure to use this product properly can cause serious injury or death. Your patient's safety depends on your using the SEGUFIX® system correctly.

## 1. Requirements for use

It is the user's responsibility to comply with all national laws. Always consider restraining protocols of your work place and current legislation. The instructions for use must be adhered to.

SEGUFIX® products may only be used by individuals with proper training and knowledge of the product. Legal provisions and doctor's orders must be strictly observed! The attending physician must ensure, that the patient's medical condition allows the application of the SEGUFIX® system.

## 2. Intended use

SEGUFIX® products may only be used for the medical purposes, which they were designed for.

## 3. Remove dangerous objects

Remove all objects from the reach of the patient, which could lead to injury or may damage the belts (e.g. glasses, jewelry and sharp objects).

## 4. Inspect products before use



Inspect before each use for broken stitches, torn, worn out or frayed parts and damaged eyelets. Damaged products could malfunction and cause injury. Do not use damaged or worn out products.

## 5. When opening, locks may not be under tension

When opening locks, ensure movement between the upper and lower points of contact (item 1206). Therefore each lock can hold up to a maximum of 4 belt layers (exception: products with "r" or "f" in the item number have thicker belts. These allow for a maximum of 3 belt layers!). When using the Patent Twist Lock (item 1306) use no more than 4 belt layers. When using the Push Lock (item 1406) use no more than 3 belt layers.





## 6. Always attach Side Positioning Straps

The SEGUFIX®-Standard must always be used with the Side Positioning Straps attached. Side Positioning Straps prevent the patient from helicoptering in bed or from getting over the edge of the bed causing compression of the chest, possibly resulting in death.

In some cases it is possible that patients get over the edge of the bed even with the Side Positioning Straps attached and the side rails in the up position. In these cases additional restraint measures must be taken.

Important: Insert the Side Positioning Straps through the respective loops (according to instructions) before securing them to the bed belt.

## 7. Beds, chairs and stretchers

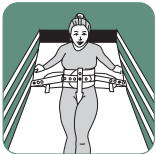
- Only use SEGUFIX® products on beds, stable chairs and stretchers that allow the product to be attached to, in accordance with the instructions.
- Products must be attached in such manner, that they cannot get out of place.
- Note that straps and moving mechanics of beds, stretchers or chairs (or alternating pressure pads and the like), may interfere with each other causing damage, loss of function and injury.
- The attachment points must be free of sharp edges.
- SEGUFIX® products do not prevent beds, chairs or stretchers from tipping over or from unintended movement.

Helpful hints:

European standards for beds: DIN EN 60601-2-52

European standards for wheelchairs: DIN EN 12182 and DIN EN 12183

## 8. All side rails must be in the up position



To prevent accidents always lock side rails in the up position (exception: 5-point-restraint).

Caution: Do not use with parted side rails except with a gap protector that effectively prevents the patient from slipping through the gap. An open gap could allow the patient to slip through even with the restraint fastened possibly causing compression of the chest.

## 9. Monitor patients in restraints



Patients in restraints require frequent monitoring.

Aggressive, agitated or restless patients and patients in danger of aspiration require constant monitoring.

## 10. Test closure-systems prior to each use



Check SEGUFIX®-Magnetic Locks black/segufix.com, SEGUFIX®-Patent Twist Locks green, Push Locks, Snap Locks, Velcro® Fasteners and Buckle Locks for a secure hold.

Do not submerge locks in any type of liquid. This may cause malfunction. If damaged locks fail to open, straps can be cut with scissors or belt cutters. Check the head of the pin for signs of wear and tear (rounding off

or deformation).

## 11. Pacemaker Warning



A distance of 10 cm (4 inches) must be maintained between a patient's pacemaker and magnetic locks and keys to prevent the pacemaker from possible malfunction (alternatively use Push Locks).

For possible interference of strong magnets with other patient implants please refer to manufacturer's instructions of these products.

## 12. Test products for correct attachment

Frequently check products for correct attachment. The straps must be secured to the frame of the bed (or the folding part of the frame of the bed) in such a way, that they cannot slide out of place.

## 13. Only use original SEGUFIX® products

For safety reasons SEGUFIX® products must not be altered or be combined with third party products.

## 14. Use of SEGUFIX® products in vehicles



The SEGUFIX®-Transport Belt System does not replace the vehicle's legally required seat belt system. SEGUFIX®-Transport Belts may only be used as additional support or for restraint of a patient. Make sure that the patient can be rescued quickly in case of emergency (e.g. clearly visible and handy belt cutters).

## 15. Secure but not too tight

The restraints must be fastened tightly, but not interfere with breathing or blood circulation. Loosely fastened products may jeopardize the patient's safety. Frequently check products for correct position.

## 16. Storage

To prolong product life store belts and locking systems in dry and dark conditions at about 20 °C.



## 17. Flammability of SEGUFIX®-Bed Restraints



According to DIN EN 71-2 section 4.3 non-flammable.

According to DIN 75200 the burning rate is zero.

However, products may not come in contact with cigarettes or be exposed to open flame, as this could permanently damage the products, and this could lead to injury.

## 18. Correct sizing

Choosing the right size is of essential importance. Make sure that the size matches body and waist sizes (refer to sizing tables). Products that are too small or too large compromise the patient's comfort and safety.

## 19. Disposal

Carton and plastic wrapping can be disposed of in recyclable disposal, defective products in household garbage.

## 20. Declaration of conformity

For the declaration of conformity please visit:

[https://www.segufix.com/conformity\\_en.php](https://www.segufix.com/conformity_en.php)

## 21. Expert recommendation to prevent accidents

(Prof. Dr.-Ing. U. Boenick, TU-Berlin)

1. Always use Side Positioning Straps
2. Lock non-parted side rails in the up position  
(exception: five-point-restraint)
3. The use of additional restraint elements may be necessary to eliminate bed egress.

## 22. Ensure prior to each use

- Test locks for a secure hold
- Visual inspection of belts, straps and eyelets
- Ensure sufficient medical indication
- Check legal requirements

# Care Instructions

- **SEGUFIX®-Restraints** (white) are made of a cotton/rayon mix and are washable in hot wash cycles up to 95 °C. Lower temperature and laundry nets will prolong product life. Avoid methods that might bend metal parts of the system (e.g. laundry line, dry pressing, rotary irons), eyelets may be damaged.  
Not pre-washed, up to 8 % shrinkage. Store in a dry place.  
Detergents: non-aggressive, no fabric softener, no bleach.  
Dryer: delicate cycle at low temperature and preferably in the laundry net.  
Disinfection: may be disinfected using chemothermal disinfection washing procedure.  
Overdosing can damage the product.
- **SEGUFIX®-Transport Belts** (coloured/black) are made of polyester and are washable in warm wash cycles up to 30 °C.  
Avoid methods that might bend metal parts of the system (e.g. laundry line, dry pressing, rotary irons), eyelets may be damaged. Store in a dry place.  
Detergents: non-aggressive, no fabric softener, no bleach.  
Dryer: delicate cycle at low temperature and preferably in the laundry net.
- **SEGUFIX®-Locks and metal pins**: remove all locks and metal pins before washing or drying. Laundering will damage locks and possibly cause them to fail. Locks may be cleaned with a damp cloth. Never submerge locks in any type of liquid.
- **Velcro® Fastener**: fasten before washing and drying to prevent lint buildup. Occasionally use a stiff brush to remove lint from Velcro® Fastener. Even with normal use, Velcro® material has the tendency to collect lint. This can reduce the grip strength. Before each use, test grip strength of the Velcro® Fastener.
- **Durability**: depends on the intensity of use and is prolonged by gentle laundry procedures (detergent/laundry net).

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