BIOMATRIX
PRODOTTI MEDICALI

PRODUCTS AND EXPERTISE FOR DISTRIBUTORS AND HEALTHCARE OPERATORS



# Patient Restraint

www.biomatrix.it

Authorised retailer

# Summary


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# Patient Restraint

## Appropriate use of restraint devices

- Restraint devices are useful in those cases in which the patient, being altered, can be dangerous for oneself and for others.
- The restraint is never implemented with punitive purposes and must be carried out in such a way as to guarantee the dignity of the person and at the same time favoring safety and ease of treatment.





Ensure the effectiveness of the restraint by giving a fair possibility of movement to the patient.

Restraint is a **non-definitive medical practice and of short and intermittent duration**

## We use only safe materials

It is essential that the fabrics used are "**flame retardant**" to ensure the safety of the systems even in the event of exposure to fire.

Always check the product and manufacturer information of the devices in use.

**Patient comfort and safety are our prerogatives**

BCODE

Scan the **QR code** to discover all the information about this category.

# Medical evaluation and choice of the appropriate means of restraint

A careful medical evaluation is crucial to establish the need to subject the patient to a containment practice and to make the choice of the correct aid

The practice of preventive medical restraint must always be performed with the utmost attention with the the correct aids to guarantee patient dignity and promote safety and ease of the treatment.



Quick and easy application protocols to enable operators to work in complete safety.

Working correctly and with the right devices is the best way to ensure that the restraint is effective and safe, both for the patient and for the operators.



**Various types of closures depending on the intensity of containment required.**

- clip,
- mechanical closure,
- magnetic closure.

# How to choose

A short guide to selforient the choice
of the ideal restraint device

## HEAVYDUTY LINE







High restraint

**Heavy Duty Line has been created to face situations that require a higher containment function, suitable for both wheelchair and bed.** They are useful in all those cases in which the patient, being in a state of serious alteration, caused by neuro degenerative diseases (eg Alzheimer's), addictions and / or behavioral disorders, can be dangerous for himself and for others and must be contained for safety reasons.

All ***Heavy-Duty Line*** items are made of fire-retardant Trevira fabric, with a white base and an enveloping structure with edging in a different color depending on the size, for faster recognition.

Each item is also provided with keys and magnetic keys necessary for use.

The choice of closure, and the choice of standard or rapid models, depends on the medical evaluation of the patient's psycho-physical state.

**WATCH THE COLOUR!**

All items feature colour-coded edging, with a different colour for each size, for quicker identification.

| S | M | L | XL |
|---|---|---|---|
| **Blue** Size S | **Green** Size M | **Grey** Size L | **Light blue** Size XL |

# BASIC LINE







**Light restraint**

**Basic Line arises from the need to ensure stability to patients who are unable to control their movements,** protecting them, avoiding possible trauma caused by assuming the wrong positions and prevent slipping or falling accidentally.

Also designed for the intensive care unit, the basic restraints for wrists, ankles, and hands (disposable or multiple use), have the task of protecting the patient and operators in case of post Intensive delirium: altered state of consciousness due to awakening after periods of deep sedation.

They are available in different materials, sizes and models depending on the need. BASIC LINE also includes supports and belts for wheelchairs and beds.

All ***Basic Line*** products are characterized by different closures: clips, straps, or Velcro.

# How to choose

## Target

**HOSPITALS/ CLINICS**

- BEDRIDDEN PATIENT
- PATIENT ON WHEELCHAIR

**NURSING HOMES/CARE HOMES**

- BEDRIDDEN PATIENT
- PATIENT ON WHEELCHAIR

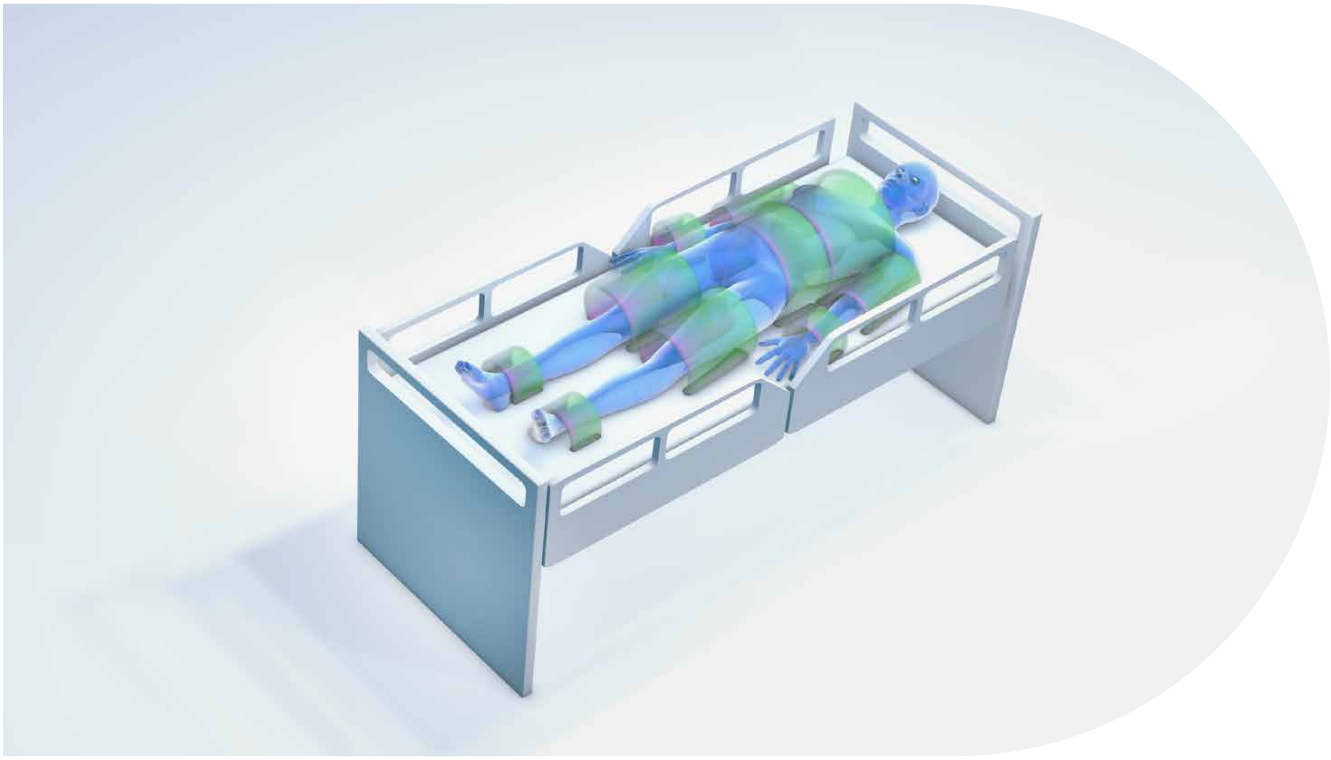
## Wrist

**BASIC LINE LIGHT RESTRAINT**

- DISPOSABLE/ ONE PATIENT USE
  - WITH NYLON/ METAL RING
  - VELCRO
- MULTIPLE USE
  - UNIVERSAL GLOVE WITH NYLON RING
  - PADDED LIMB HOLDER

**HEAVY DUTY HIGH RESTRAINT**

- RAPID RESTRAINTS
- STANDARD RESTRAINTS



## Thorax Abdomen

**BASIC LINE LIGHT RESTRAINT**

- MULTIPURPOSE BODY BELT
- ARTICULATED BELT
- ABDOMINAL BELT WITH PELVIC SUPPORT

**HEAVY DUTY HIGH RESTRAINT**

- STANDARD ABDOMINAL RESTRAINT
- STANDARD ABDOMINAL RESTRAINT WITH PELVIC SUPPORT

## Ankle

**BASIC LINE LIGHT RESTRAINT**

- DISPOSABLE/ ONE PATIENT USE
  - WITH NYLON/ METAL RING
  - VELCRO
- MULTIPLE USE
  - PADDED LIMB HOLDER

**HEAVY DUTY HIGH RESTRAINT**

- RAPID RESTRAINTS
- STANDARD RESTRAINTS

Ideal in:

- **Intensive Care Unit**
- **Operating room**
- **Long-term care**
- **Psychiatric wards**

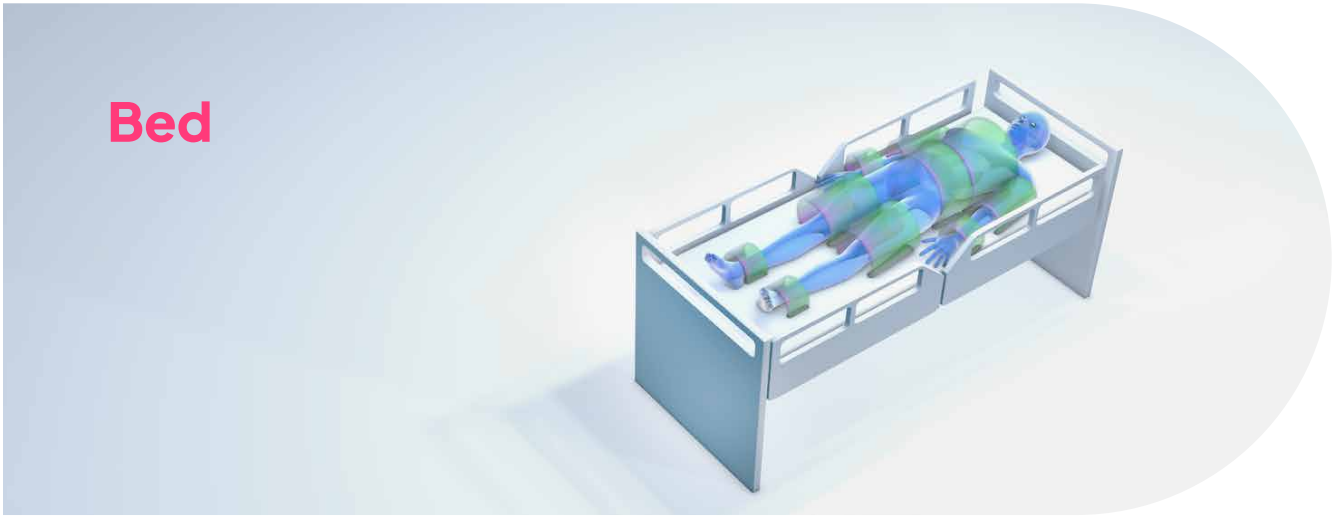


# HEAVYDUTY LINE

Heavy Duty

*The Heavy Duty Line has been designed to handle demanding situations, where protecting medical staff is also of utmost importance.*

## Bed



| Code | Size | Dimensions | ø Patient | Use |
|---|---|---|---|---|
| **CTHDL201** | S | 95 cm | 50–75 cm | |
| | M | 120 cm | 70–110 cm | |
| | L | 155 cm | 105–145 cm | |
| | XL | 175 cm | 120–162 cm | |
| **CTHDL202** | S | 95 cm | 50–75 cm | |
| | M | 120 cm | 70–110 cm | |
| **CTHDL200** | L | 155 cm | 105–145 cm | |
| | XL | 175 cm | 120–162 cm | |
| **CTKF200** | S/ XL | - | | |
| **CTHDL206** | S | 26 cm | 11–22 cm | |
| | M | 32 cm | 19–28 cm | |
| | L | 40 cm | 25–35 cm | |
| | XL | 48 cm | 31–43 cm | |
| **CTHDL205** | S | | 11–22 cm | |
| | M | | 19–28 cm | |
| | L | | 25–35 cm | |
| | XL | | 31–43 cm | |
| **CTHDL208** | S | 20 cm | 8–18 cm | |
| | M | 29 cm | 12–22 cm | |
| | L | 32 cm | 17–27 cm | |
| | XL | 40 cm | 23–34 cm | |

| Code | Size | Dimensions | ø Patient | Use |
|---|---|---|---|---|
| **CTHDL207** | S | | 8–18 cm | |
| | M | | 12–22 cm | |
| | L | | 17–27 cm | |
| | XL | | 23–34 cm | |
| **CTHD207** | U | | | |
| **CTHDL210** | U | 10/34 cm | | |
| **CTHDL211** | U | | | |
| **CTHDL204** | S | 100 cm | 35–62 cm | |
| | M | 114 cm | 36–72 cm | |
| | L | 124 cm | 49–82 cm | |
| | XL | 135 cm | 52–92 cm | |
| **CTHDL203** | S | 118 cm | 65–104 cm | |
| | M | 128 cm | 75–114 cm | |
| | L | 138 cm | 85–124 cm | |
| | XL | 160 cm | 109–146 cm | |
| **CTHD208** | U | | | |
| **CTHD209** | U | | | |
| **CTHD210** | U | | | |

BCODE

Scan the **QR Code** to find out all the info on this category.

# Wheelchair



| Code | Size | Dimensions | ø Patient | Use |
|---|---|---|---|---|
| **CTHDC200** | S | 95 cm | 52–84 cm | |
| | M | 120 cm | 68–108 cm | |
| | L | 155 cm | 102–142 cm | |
| | XL | 175 cm | 122–162 cm | |
| **CTHDC201** | S | 95 cm | 52–84 cm | |
| | M | 120 cm | 68–108 cm | |
| | L | 155 cm | 102–142 cm | |
| | XL | 175 cm | 122–162 cm | |
| **CTHDC202** | U | | | |
| **CTHDC203** | S | 170 cm | | |
| | M | 190 cm | | |
| | L | 210 cm | | |
| **CTHDC205** | U | 20–38 cm | | |
| **CTHDC206** | U | 12–23 cm | | |

# HEAVYDUTY LINE

Heavy Duty

**Heavy Duty Line has been created to face situations that require a higher containment function, suitable for both wheelchair and bed.**

They are useful in all those cases in which the patient, being in a state of serious alteration, caused by neuro degenerative diseases (eg Alzheimer's), addictions and / or behavioral disorders, can be dangerous for himself and for others and must be contained for safety reasons.

BCODE

Scan the **QR Code** to find out all the info on this category.

Ideal in:

**Psychiatric wards**



**Standard abdominal restraint** • Bed



**Ankle restraint** • Bed



**Restraint with pelvic support** • Wheelchair



**Wrist restraint** • Bed

FIRE RETARDANT

All Heavy Duty restraint systems are made of fabric Trevira® CS - Flame Retardant.

**WATCH THE COLOUR!**

All items feature colour-coded edging, with a different colour for each size, for quicker identification.

| S | M | L | XL |
|---|---|---|---|
| **Bleu** | **Green** | **Grey** | **Light blue** |
| Size S | Size M | Size L | Size XL |



CTHDL201

## Abdominal belt with pelvic support

Equipped with lateral belts and pelvic support to avoid patient slipping.

**Each belt is provided with:**
- 5 magnetic locks (**CTHDW200**)
- 1 magnetic keys (**CTHDW201)**





CTHDL200 - CTHDL202

## Standard abdominal belt / standard padded

Available in the basic model or with padded band, both equipped with side straps to allow postural changes, laterally up to 90.

**Each belt is provided with:**
- 3 magnetic locks (**CTHDW200**)
- 1 magnetic keys (**CTHDW201**)

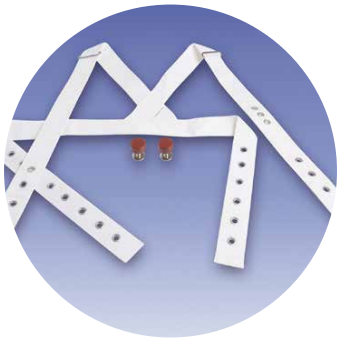


## Rapid thorax restraint

CTHDL203

Supplied on request with extendable and removable straps (ref. CTHD210) to be used in combination with the standard belt CTHDL200.

**Each belt is provided with:**
- 5 magnetic locks (**CTHDW200**)
- 1 magnetic keys (**CTHDW201**)



## Thorax standard restraint

CTHD208

Prevents the forward sliding of patient while being blocked by a standard abdominal belt CTHDL200.

**Each belt is provided with:**
- 2 magnetic locks (**CTHDW200**)
- 1 magnetic keys (**CTHDW201**)



## Rapid thigh restraint

CTHDL204

Supplied in a single piece, it immobilizes both thighs at the same time, quickly and completely.

**Each belt is provided with:**
- 2 magnetic locks (**CTHDW200**)
- 1 magnetic keys (**CTHDW201**)

Heavy Duty



CTHDL205

## Rapid ankle restraint

Supplied in a single piece, for a total, rapid and contemporaneous restraint of both ankles.

**Each belt is provided with:**
- 4 magnetic locks (**CTHDW200**)
- 1 magnetic key (**CTHDW201**)



CTHDL206

## Standard ankle restraint

It allows the restraint of both lower limbs independently of each other, leaving moderate mobility of the leg.

**Each belt is provided with:**
- 4 magnetic locks (**CTHDW200**)
- 1 magnetic key (**CTHDW201**)



CTHDL207

## Rapid wrist restraint

Supplied in a single piece, for a total, rapid and simultaneous restraint of both wrists.

**Each belt is provided with:**
- 4 magnetic locks (**CTHDW200**)
- 1 magnetic key (**CTHDW201**)



CTHDL208

## Standard wrist restraint

It allows the restraint of both upper limbs independently of each other, leaving moderate arm mobility.

**Each belt is provided with:**
- 4 magnetic locks (**CTHDW200**)
- 1 magnetic key (**CTHDW201**)



CTHDL211 + NEW

## Universal limb restraint

Universal fastening belt for wrist and ankle suitable for bed and stretcher.

**Size**: One Size, 10/34 cm

**Packaging (1 bag):**
2 universal limb restraints,universal limb restraints, 4 magnetic locks, 2 magnetic keys



CTHD207

## Protective glove

To avoid self-damages to the body. Available in the version with rigid rubber insert CTHD207R.

**Each belt is provided with:**
- 2 magnetic locks (**CTHDW200**)
- 1 magnetic key (**CTHDW201**)



CTHD209

## Shoulder pad

Prevents possible skin inflammation caused by the friction of the medical aids on the skin.



CTHD210

## Stretchable straps

In combination with **CTHD208** or **CTHDL203** systems for the thorax, they prevent the patient from assuming the sitting position.







CTKF200

## KOMBIFIX
### Restraint harness

It is a patented product. It consists of a harness composed of an abdominal belt, a part that contains the chest and one that contains the pelvic area. This system prevents the patient from falling out of bed and allows the patient to take the sitting position.

**Available in sizes:** S, M, L, XL

Kombifix is fully padded and can be combined with **CTHD210** - extensible shoulder straps.



## HEAVYDUTY LINE

Heavy Duty

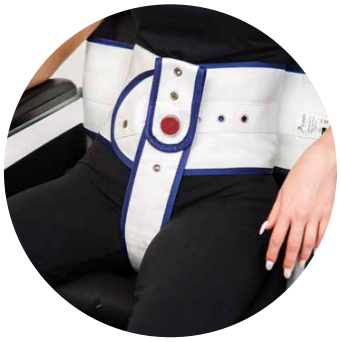


CTHDC200

### Restraint for wheelchair

Consisting of a lumbar support and an abdominal section of equivalent dimensions to the standard abdominal belt.

**Each belt is provided with:**
- 2 magnetic locks (**CTHDW200**)
- 1 magnetic key (**CTHDW201**)



CTHDC201

### Restraint for wheelchair with pelvic support

It differs from the CTHDC200 restraint for the presence of a special pelvic support that prevents the patient from sliding sitting in the wheelchair.

**Each belt is provided with:**
- 2 magnetic locks (**CTHDW200**)
- 1 magnetic key (**CTHDW201**)



CTHDC202

### Thorax restraint for wheelchair

It prevents the movement of the patient sitting on wheelchair.

**ATTENTION**: It can only be used in combination with the pelvic support for wheelchair (**CTHDC200**) or restraint for wheelchair (**CTHDC201**).



CTHDC203

### Multifunctional belt

To be used for wheelchair transport or as a permanent preventive support. There is also the version with Velcro closure

**Each belt is provided with:**
- 1 magnetic locks (**CTHDW200**)
- 1 magnetic key (**CTHDW201**)



CTHDC205

### Ankle restraint for wheelchair

To be used on wheelchair, equipped with Velcro closure. Universal size with circumference 20 - 38 cm.



CTHDC206

### Wrist restraint for wheelchair

To be used on suitable wheelchair or chair.

**With magnetic closure: CTHDC206C**
**With Velcro closure: CTHDC206V**
**Universal size:** with circumference 12 - 23 cm.

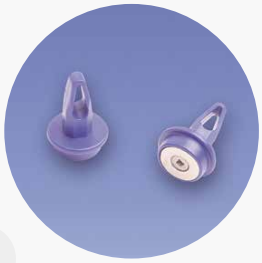
## Magnetic lock *



CTHDW200

*** USE ONLY BIOMATRIX LOCKS**
to avoid malfunction.

## Magnetic key *



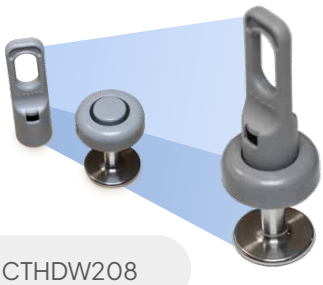
CTHDW201

*** USE ONLY BIOMATRIX KEYS**
to avoid malfunction.

---

Magnetic lock (**CTHDW200**) and magnetic key (**CTHDW201**) for tightening and releasing all BioMatrix restraint systems. The magnetic lock (**CTHDW200**) consists of a head-lock (**CTHDW204**) and support base (**CTHDW205**).

**CAUTION**: If the patient has been implanted with a pacemaker, it is required to keep a minimum distance of 15 cm between the magnet closure and the aforementioned device, to avoid interference that can cause arrhythmias.



CTHDW207 - CTHDW208

## Mechanic lock and key

To lock and unlock BioMatrix restraints.



## PIN LOCK* – Lock/unlock systems for restraints

*** USE ONLY BIOMATRIX LOCK to avoid malfunction.**

PIN locking (CTHDW202) and PIN key (CTHDW203) locking and unlocking systems for all BioMatrix restraints. The PIN lock (CTHDW202) consists of a locking head (CTHDW206) and support base (CTHDW205).

CTHDW211

## Transport bag




To carry and easily store restraints and accessories.

CTHDW212

## Nylon washing bag



It can be used to wash the restraints, in an easy and immediate way. The identification label helps the tracking of the aids within hospitals wards.

# BASIC LINE

Mild Restraint

**Basic Line arises from the need to ensure stability to patients who are unable to control their movements**, protecting them, avoiding possible trauma caused by assuming the wrong positions and prevent slipping or falling accidentally.

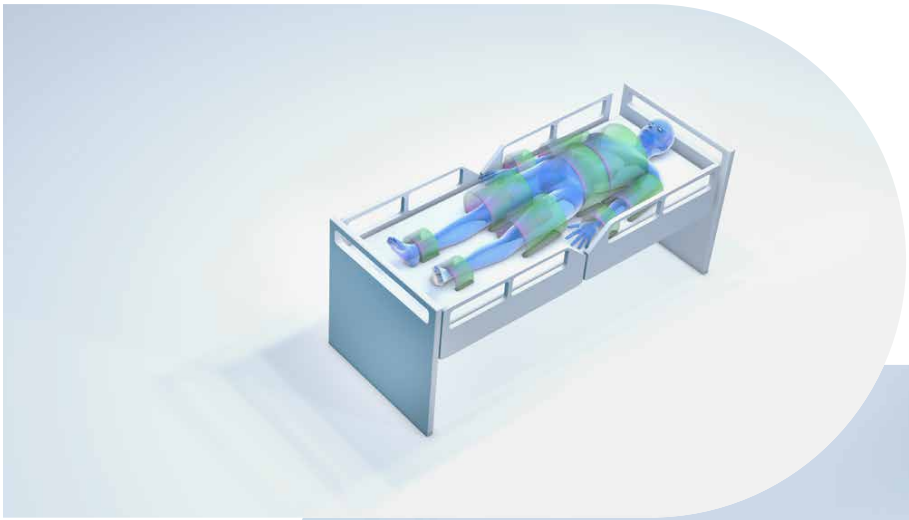
BCODE

Scan the **QR Code** to find out all the info on this category.

Ideal in:

**Long-term care**

| Code | Size | Dimensions | Use |
|---|---|---|---|
| **CTBL200** | U | Band: 43×14 cm • Belt: 2 m | |
| **CTBL201** | U | Band: 56×12 cm • Belt: 2 m | |
| **CTBL202** | U | Band: 56×12 cm • Belt: 4 m | |
| **CTBL203** | U | Base: 40 cm • Groin: 40 cm • Belt: 90 cm | |
| **CTBL204** | U | Base: 36 cm • Groin: 17 cm • Belt: 87 cm | |
| **CTBL205** | U | 180×41 cm | |
| **CTBL210V CTBL210N** | U | Band: 30×8 cm • Belt: 105×4 cm | |
| **CTSC203** | U | | |





# Basic restraints for wheelchair

Our basic restraints for wheelchair, such as thoracic, abdominal and pelvic supports are designed to ensure greater stability to patients, avoiding sliding forward on the seat.

Thanks to the sturdy straps with clip closure, adjustable, are at the same time fast and easy to apply and absolutely safe. Composed mostly of polyamide, polyester, and polyethylene, they are washable in water up to 30 °.

The choice of the closure and the type of band depends on the doctor's evaluation, according to the patient's needs.



## Pectoral belt for wheelchair

CTBL200

**Material**: Polyamide, polyethylene, and polypropylene
**Band width**: 43 cm
**Band height**: 14 cm
**Belt length**: 2 mt (1 meter per side)
**Lock clip / sealed in a transparent polyethylene bag**



## Pectoral belt with braces for wheelchair

CTBL201

**Material**:Polyamide, polyethylene and polypropylene
**Band width**: 56 cm
**Band height**: 12 cm
**Belt length**: 2 mt 1 meter per side)
**Shoulder pad width** : 36 cm
**Lock clip / sealed in a transparent polyethylene bag**



## Orthopedic leg stretch apart belt for wheelchair

CTBL202

**Material**: Polyamide, polyethylene, and polypropylene
**Band width**: 56 cm
**Band height**: 12 cm
**Belt length**: 4 mt (2 metri per lato)
**Braces thickness**: 5 cm
**Lock clip / sealed in a transparent polyethylene bag**



## Pelvic support for wheelchair

CTBL203

**Material**: Polyamide, polyethylene, and polypropylene
**Band width**: 40 cm
**Band height**: 90 cm
**Groin width**: 40 cm
**Trim**: 4,00 mt
**Lock clip / sealed in a transparent polyethylene bag**

## BASIC LINE

Light restraint



## Anatomic pelvic support for wheelchair

CTBL204

Technical features

**Material**: Polyamide, polyethylene and polypropylene
**Band width**: 36 cm
**Belt length**: 87 cm
**Groin width**: 17 cm
**Trim**: 4,00 mt
**Lock clip / sealed in a transparent polyethylene bag**



## Pelvic support with fixing straps for bed and wheelchair

CTBL205

Technical features

**Rings**: in metal
**Laces**: cotton 40 mm
**Fabric**: Art. DN-B PES white in polyester
**Length**: 180 cm (per piece)
**Base width**: 41 cm
**Leg width**: 11,5 cm
Wash only with warm water (about 30 °)
and soap and leave dry away from heat sources



## Chest Harness with Shoulder Straps and Pelvic Support

CTBL223

Technical features

**Belt**: 36 x 60 cm
**Pelvic Grip**: 30 x 15 / 7 cm
**Shoulder Strap Webbing**: 2 x 1.25 mt
**Pelvic Grip Webbing**: 1 mt
**Abdominal Webbing**: 1.85 mt
**Closure**: Clip
**Outer fabric**: 100% Polyester Inner fabric: 100% polyester
**Webbing**: 100% polypropylene Buckles: 100% nylon
**Reusable**



## Pelvic Belt

CTBL224

Technical features

**Belt**: 180 x 15 cm
**Pelvic Grip**: 30 x 15 / 7 cm
**Webbing for Pelvic Grip**: 1 m
**Webbing for Belt**: 1 m
**Closure**: Clip + Velcro
**Outer fabric**: 100% Polyester Inner fabric: 100% polyester
**Webbing**: 100% polypropylene Buckles: 100% nylon+Velcro
**Reusable**



## Safety carabiner

CTBLWM5

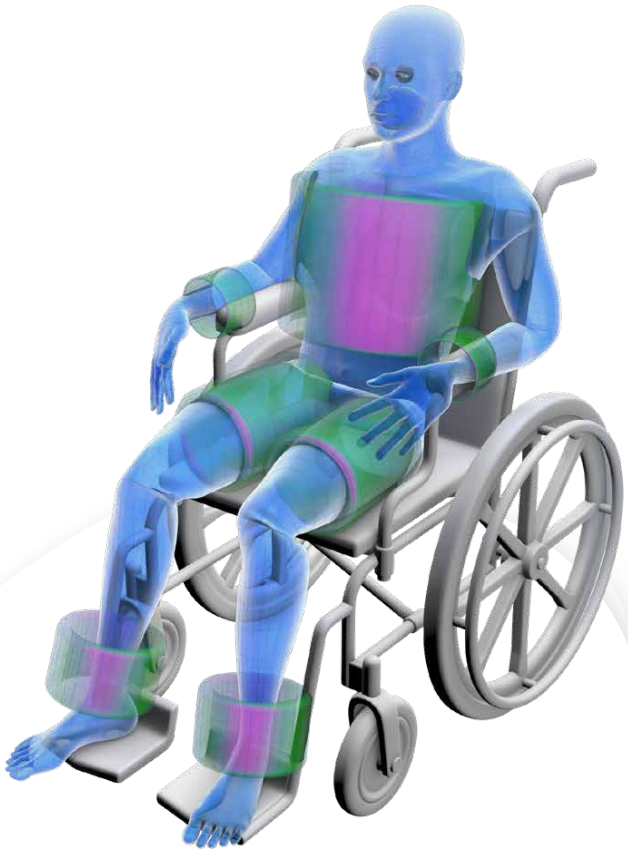
The safety Snap-On carabiner is available and suitable for all our Basic Line restraints on request:

**CTBL200** - **CTBL201** - **CTBL202** - **CTBL203** - **CTBL204**

The central safety button makes the clip more difficult to release than standard closure.



**Pectoral belt • Wheelchair**
Soft, breathable material that fits to the position taken by the patient; easily washable, with adjustable straps and clip closure.



BASIC LINE

Mild Restraint

# Bi-CUFF

## Disposable wrist holder

The BI-CUFF single-patient mild restraint devices are designed for use in operating rooms, emergency departments, and any setting where moderate and secure restraint is required to limit the patient's limb movements in a controlled and temporary manner.

These devices help prevent involuntary movements that could interfere with surgical procedures or compromise the sterility of the surgical field.

They also help keep the patient in a safe and stable position and protect against accidental movements that could lead to the dislodgement of venous access lines, catheters, tubes, or other medical devices.

They are available in different materials and with various fastening systems, depending on the requirements and specific needs of the operating room protocol.





MORE SIZES

### Universal protective glove with Velcro closure

CTSC203 + NEW

As a cheaper alternative to the universal padded glove we offer a version completely made of cotton with Velcro closure.
Machine washable and therefore reusable.

### Multiple use limb holder with metal ring

CTBL209

The multipurpose wrist-ankle restraint is a valid alternative to the different disposable models of cuffs presented so far, which perform a similar function in intensive care units and emergency. The interior is partially composed of cotton, which increases its anti-decubitus function. The possibility of sanitation, and because of reuse, allows a moneysaving for the facilities and hospitals, while ensuring safety and hygiene for the patient.

Technical features

**Composition**: 20% cotton - 80% polyester
**Closure**: in Velcro
**Packaging**: Each pair is supplied in a plastic bag
**How to use**: Pass both laces through the metal ring and attach them to the bed frame by tying them together Also available in pediatric size



## Bi-CUFF
## Single-patient cuffs

CTBL210V

**CTBL210VA** - **CTBL210VP** - **CTBL210VN**

**Composition**: 65% Poliestere - 30% Poliammide - 5% Viscosa

**Closure**: Velcro

| Code | Size | Dimension |
|---|---|---|
| **CTBL210VA** | Adult | 27×8 cm / straps 2× cm 89×4 |
| **CTBL210VP** | Pediatric | 18×6 cm / straps 2× cm 65×2 |
| **CTBL210VN** | Neanatal | 14×4 cm / straps 2× 65×5 |



## Bi-CUFF
## Single-patient cuffs

CTBL210N

**CTBL210N**

**Dimensions**: 168×7,5 cm

**Belts**: (1×) 105×4 cm

**Composition**: 65% Poliestere - 30% Poliammide - 5% Viscosa

**Closure**: anello in Nylon

BASIC LINE

Mild Restraint

## Wrist/Ankle Supports



### Wrist/Ankle holder with padded fabric

CTBL211A + NEW

Dimensions

**CTBL211A** 45×4 cm (single patient)



### Wrist/Ankle holder with fabric

CTBL211B + NEW

Dimensions

**CTBL211B** 43×3 cm (single patient)



### Wrist/Ankle holder with velcro

CTBL211C + NEW

Dimensions

**CTBL211C** loop 22 cm Velcro 35×3 cm



### Wrist/Ankle holder with padded fabric and Velcro closure

CTBL211D + NEW

Dimensions

**CTBL211D** loop 27×8 cm Velcro 40×4 (2×) cm

# Single-patient use gloves



## Universal protective glove with Velcro closure

CTSC203 + NEW

As a cheaper alternative to the universal padded glove we offer a version completely made of cotton with Velcro closure. Machine washable and therefore reusable.



## Universal cotton protective peekaboo mitten with Velcro closure

CTSC206 + NEW

Universal protective glove in padded cotton with inspection pocket and Velcro closure.

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BIOMATRIX
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20° ANNIVERSARY

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