



*USER GUIDE*

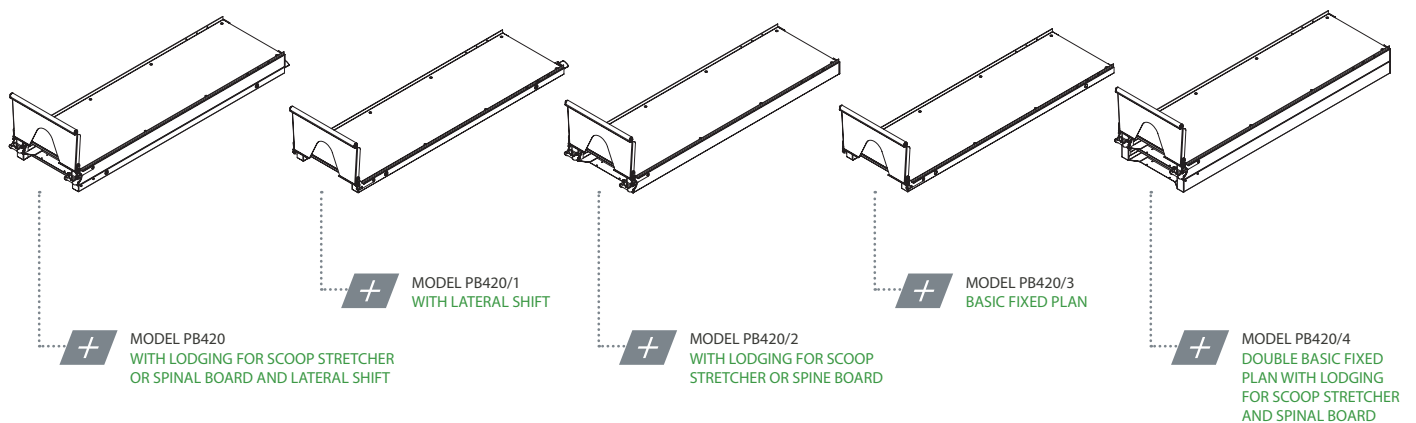
**STRETCHER SUPPORT // PB-420 SERIES**

*Review 01/15*



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# 01 INTRODUCTION

## 01.1 Using this manual

This manual provides using and maintenance instructions of the product, as well as the way of fixing minor faults that could appear.

It is recommended before the operation of the product to read carefully this manual in order to avoid damages caused by a misuse.

Do not lose this document, it should be accessible to any doubt that could appear by medical personnel.

Remember that a good use and maintenance are necessary for the proper operation of the product.

Each product incorporates an identification sticker with the serial number and the model. Keep these numbers so that they can be indicated to the dealer if necessary.

# 01 INTRODUCTION

## 01.2 Technical data sheet

### MEASURES AND FEATURES // PB-420

LENGTH 2090 mm

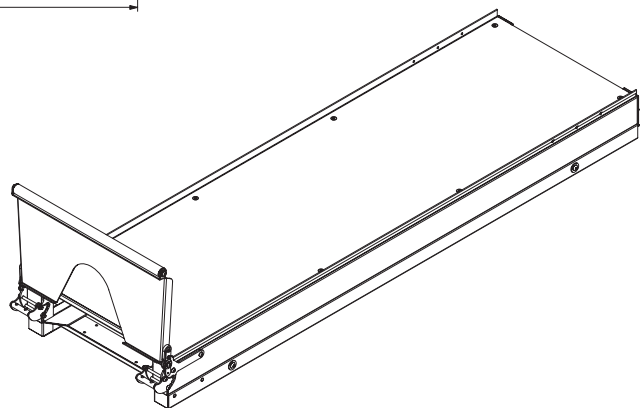
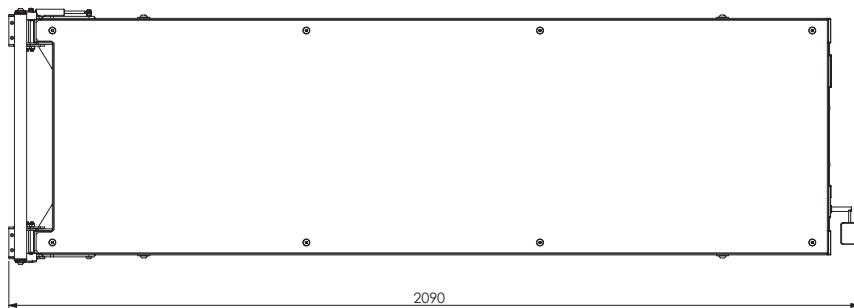
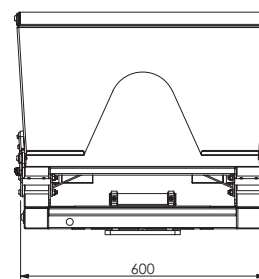
WIDTH 600 mm

HEIGHT 170 mm

WEIGHT 45 Kg

SIDE MOVEMENT 300 mm

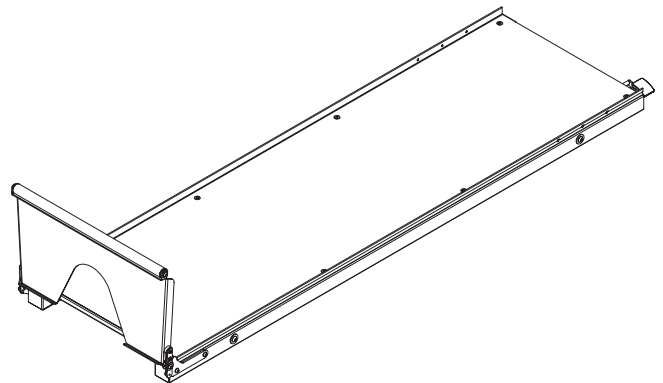
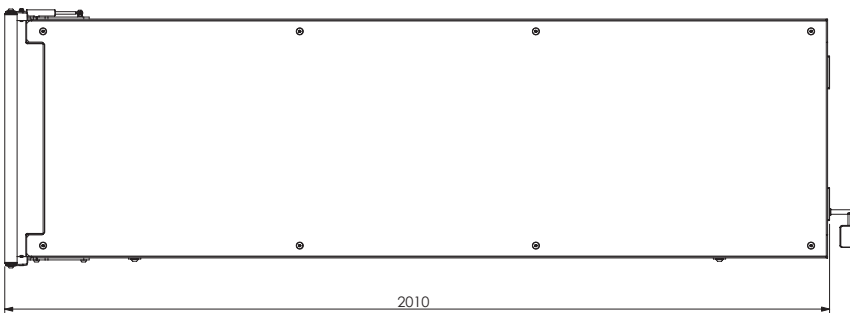
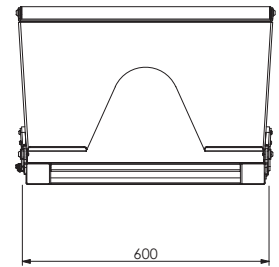
MAX. LOAD 250 Kg



# 01 INTRODUCTION

## MEASURES AND FEATURES // PB-420/1

LENGTH	2010 mm	SIDE MOVEMENT	300 mm
WIDTH	600 mm	MAX. LOAD	250 Kg
HEIGHT	70 mm		
WEIGHT	40 Kg		



# 01 INTRODUCTION

## MEASURES AND FEATURES // PB-420/2

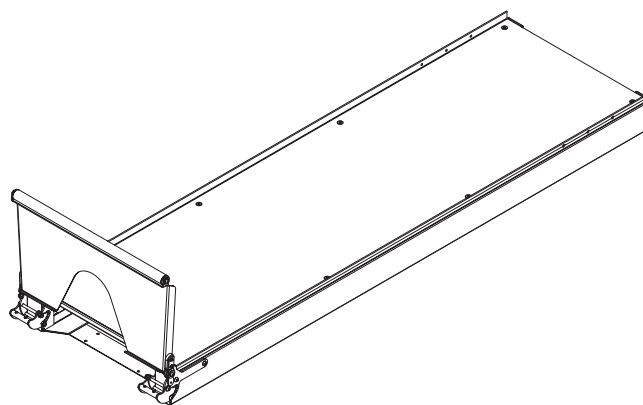
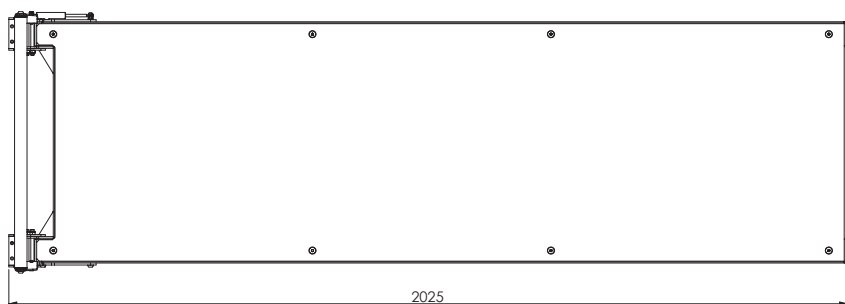
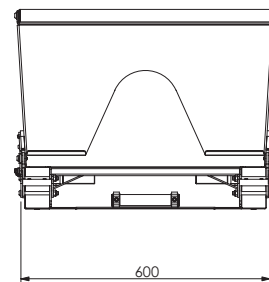
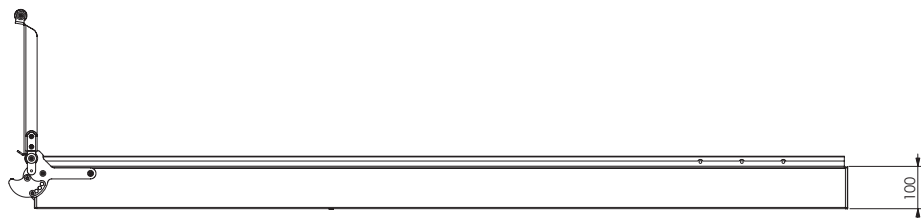
LENGTH 2025 mm

WIDTH 600 mm

HEIGHT 100 mm

WEIGHT 42 Kg

MAX. LOAD 250 Kg





# 01 INTRODUCTION

## MEASURES AND FEATURES // PB-420/3

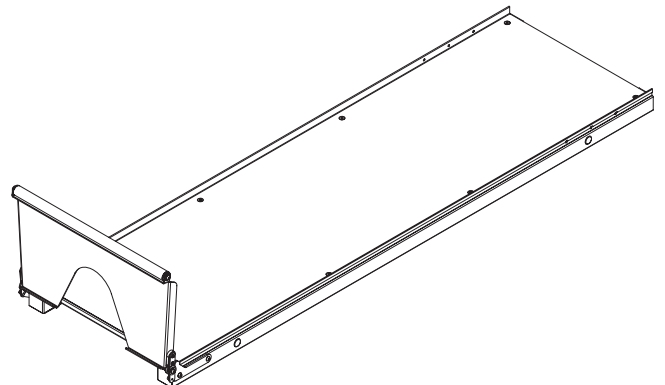
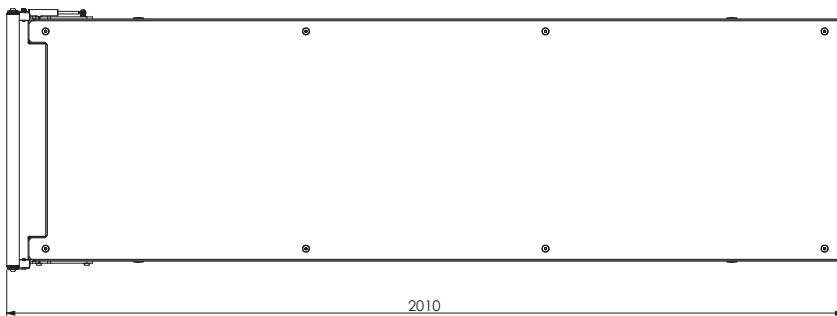
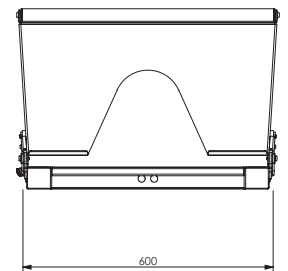
LENGTH 2010 mm

WIDTH 600 mm

HEIGHT 55 mm

WEIGHT 35 Kg

MAX. LOAD 250 Kg



# 01 INTRODUCTION

## MEASURES AND FEATURES // PB-420/4

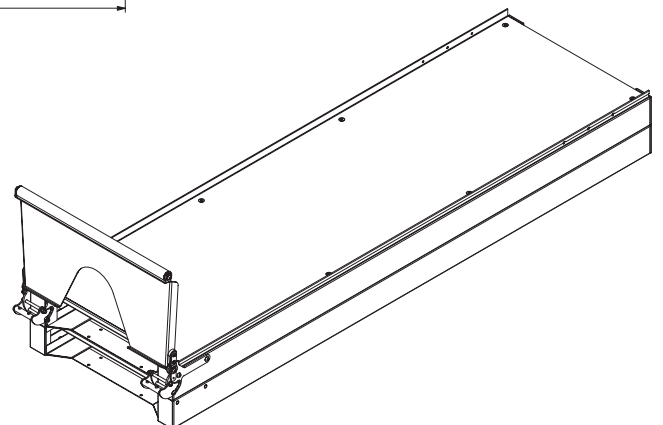
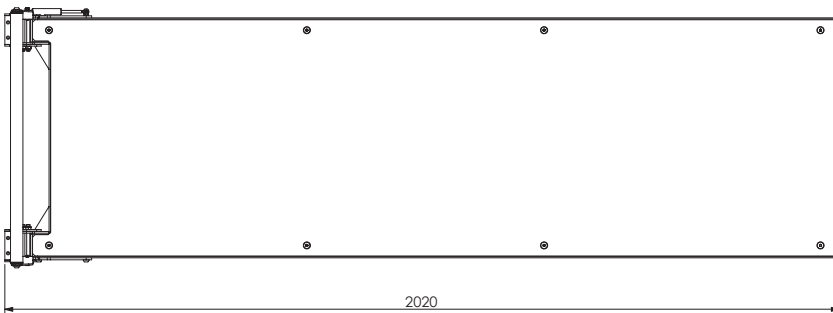
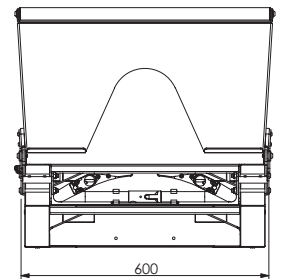
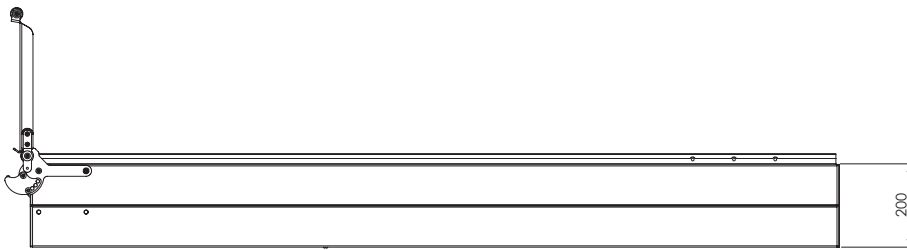
LENGTH 2020 mm

WIDTH 600 mm

HEIGHT 200 mm

WEIGHT 45 Kg

MAX. LOAD 250 Kg



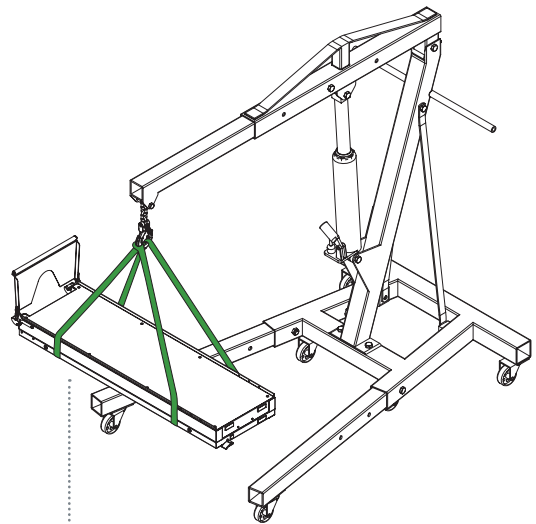
## 02 INSTALLATION

### 02.1 Transport and unpacking

First carefully remove the packaging to prevent the damage of the outside of the stretcher support.

#### 1. Transport with a crane (high load)

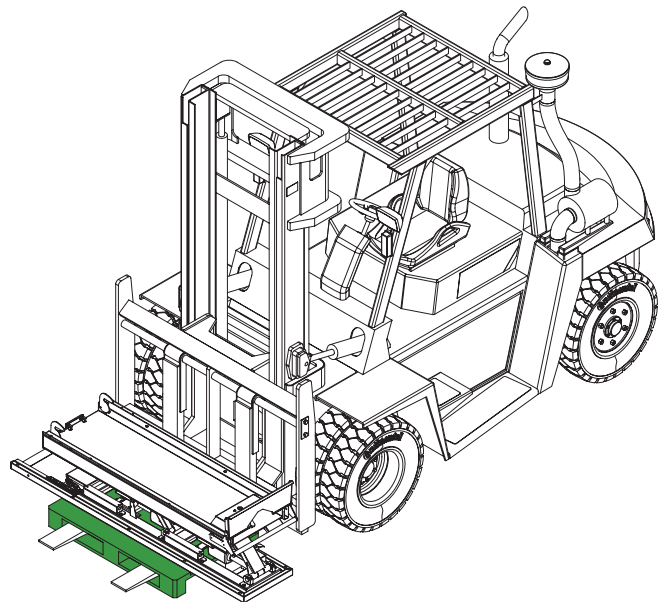
- Thread tapes through the upper platform for its transport (as shown in graphs)
- Transport the load level following all the precepts and regulations for the transport of suspended loads.



**+** TRANSPORT WITH A CRANE  
FIX THE TAPES TO LEVEL THE LOAD WEIGHT

#### 2. Transport with a forklift

- Place a pallet or a flat surface under the bench and transport it transversely.
- Do not load the bench directly on the forklift without a pallet or a flat support surface.
- Do not load the bench longitudinally on the forklift if a sufficiently long base is not available.
- Every bench has been thoroughly inspected leaving the factory. To ensure that it hasn't been damaged during the transport, it is requested to carefully examine the interior and exterior, and in case of finding any damage, communicate immediately to the installer.
- The bench should be levelled for an optimum performance.



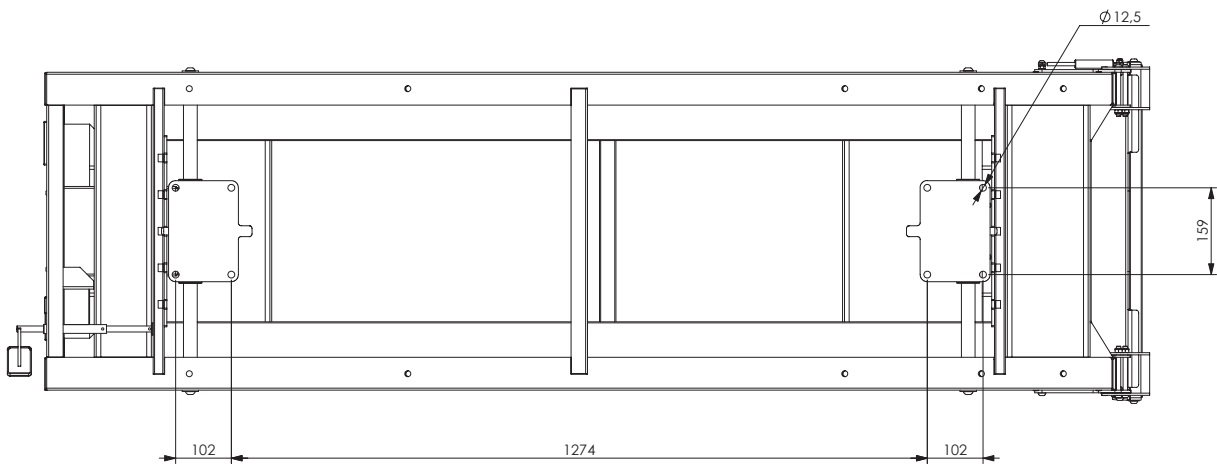
**+** TRANSPORT WITH A FORKLIFT  
USE ALWAYS A FLAT SUPPORT SURFACE

## 02 INSTALLATION

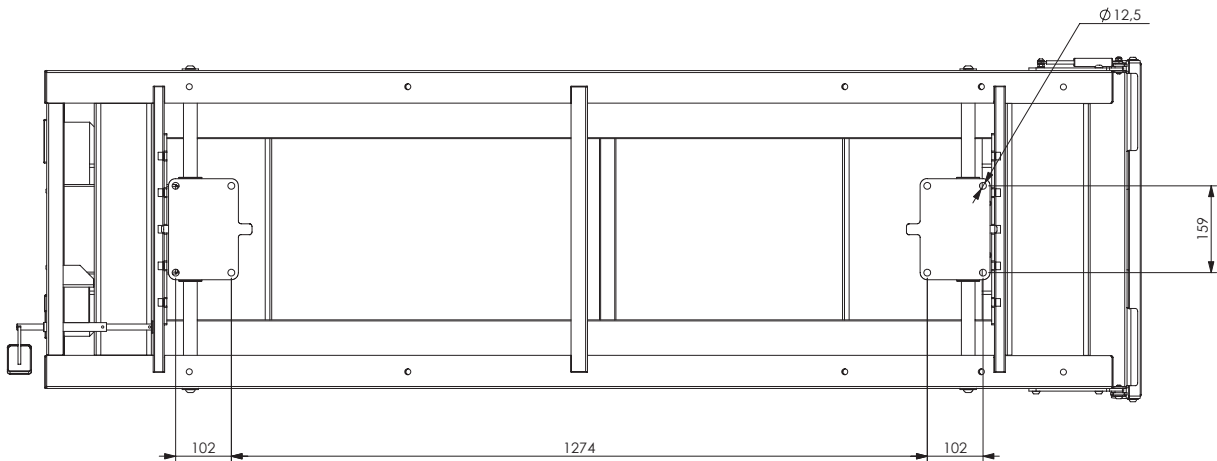
### 02.2 Anchore points

Before putting the bench into operation, ensure that each and every anchorage points are placed and clasped.

#### ANCHORAGE FOR STRETCHER SUPPORT PB420 (8 anchorage points)

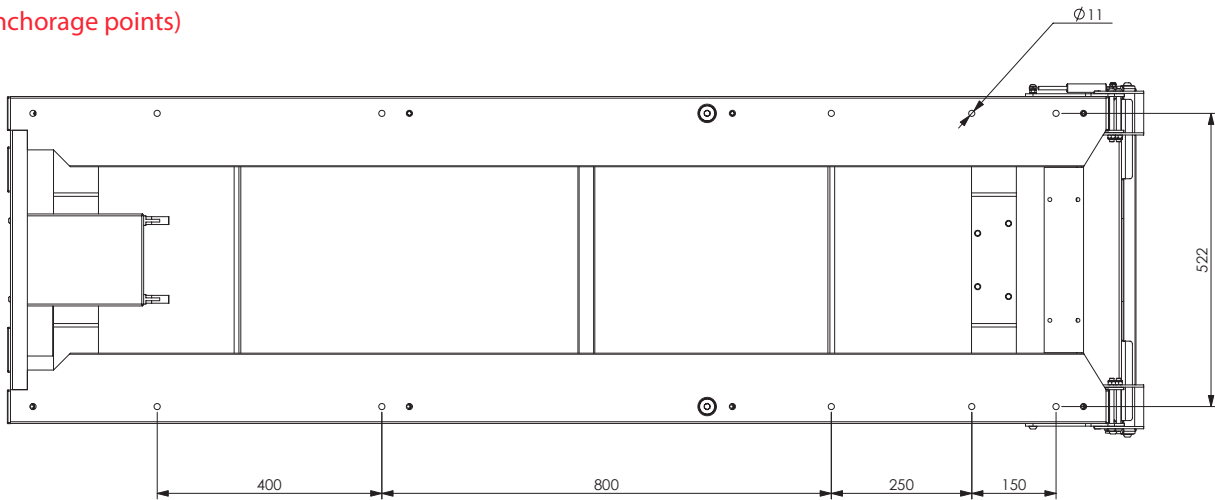


#### ANCHORAGE FOR STRETCHER SUPPORT PB420/1 (8 anchorage points)

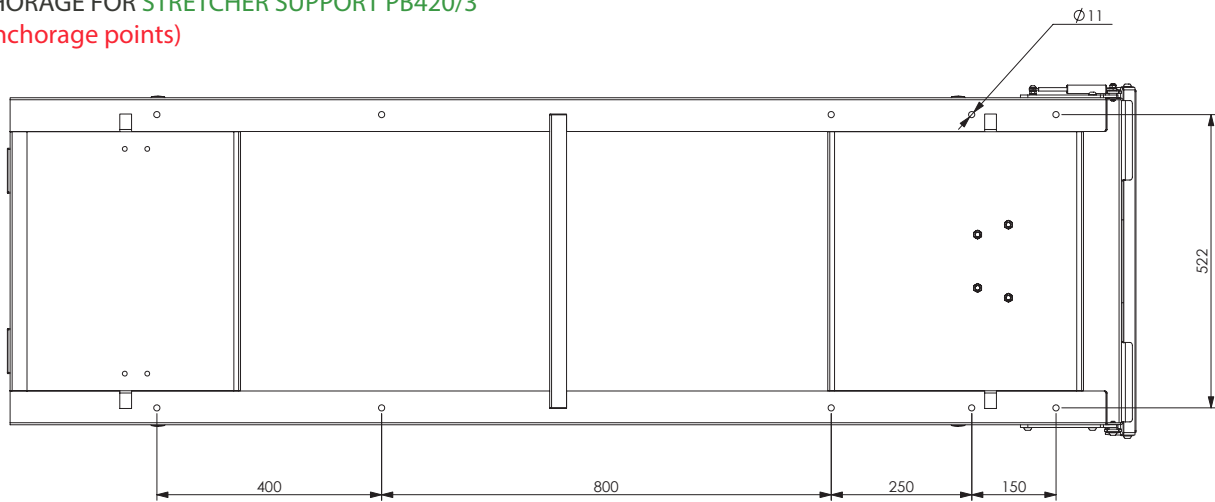


## 02 INSTALLATION

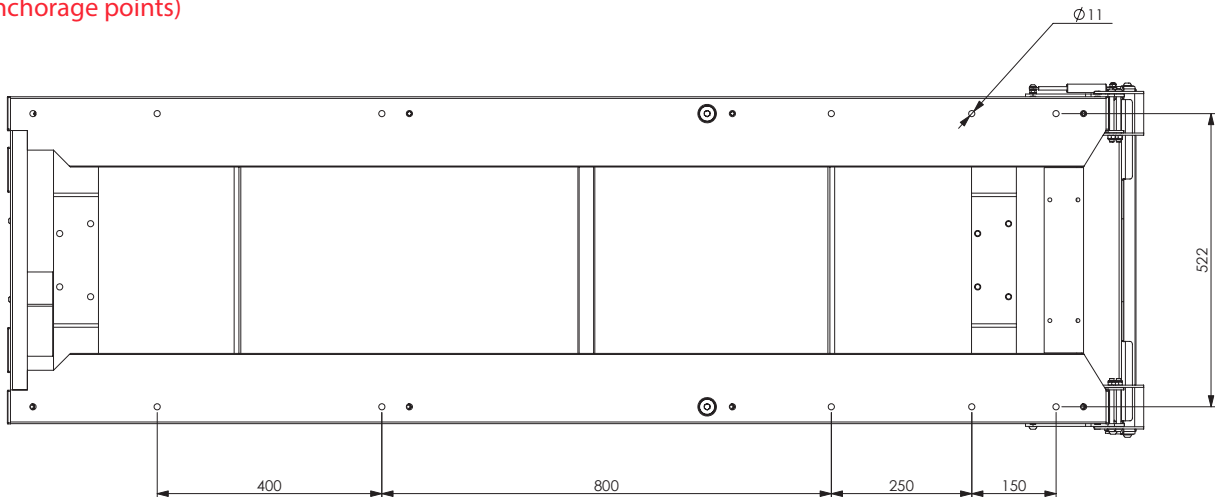
ANCHORAGE FOR STRETCHER SUPPORT PB420/2  
(10 anchorage points)



ANCHORAGE FOR STRETCHER SUPPORT PB420/3  
(10 anchorage points)



ANCHORAGE FOR STRETCHER SUPPORT PB420/4  
(10 anchorage points)

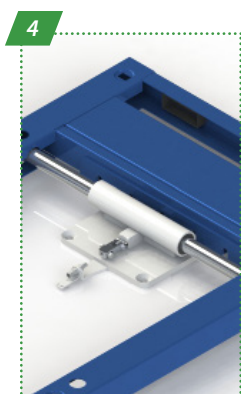
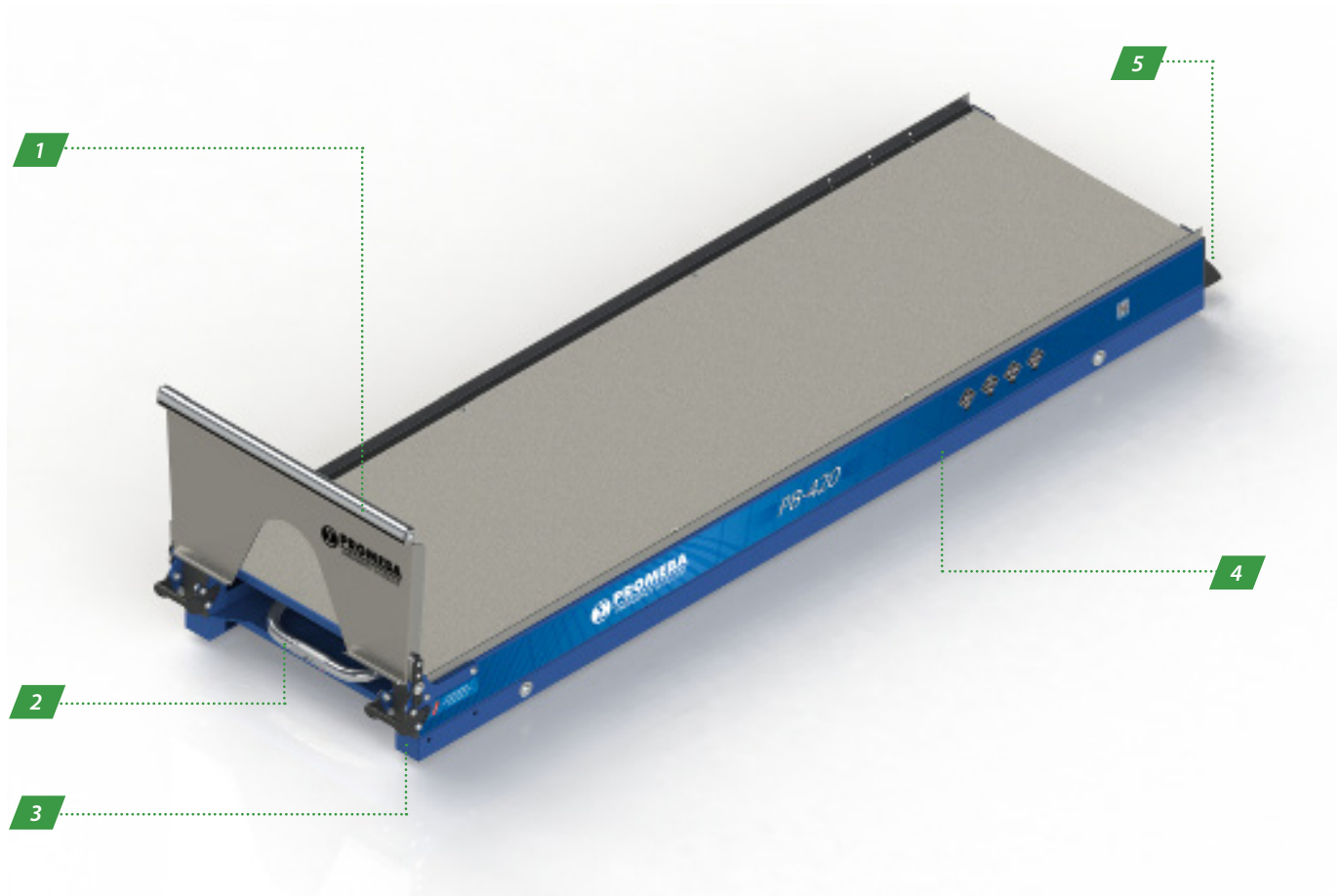




## 03 OPERATION

### 03.1 Commands PB-420

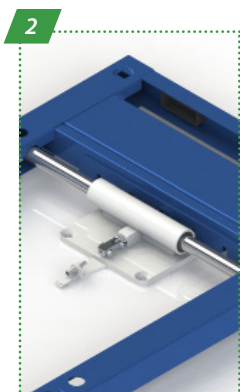
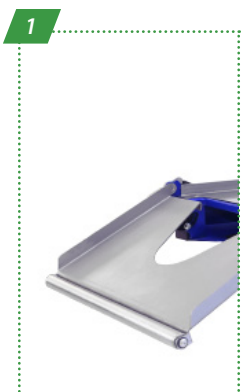
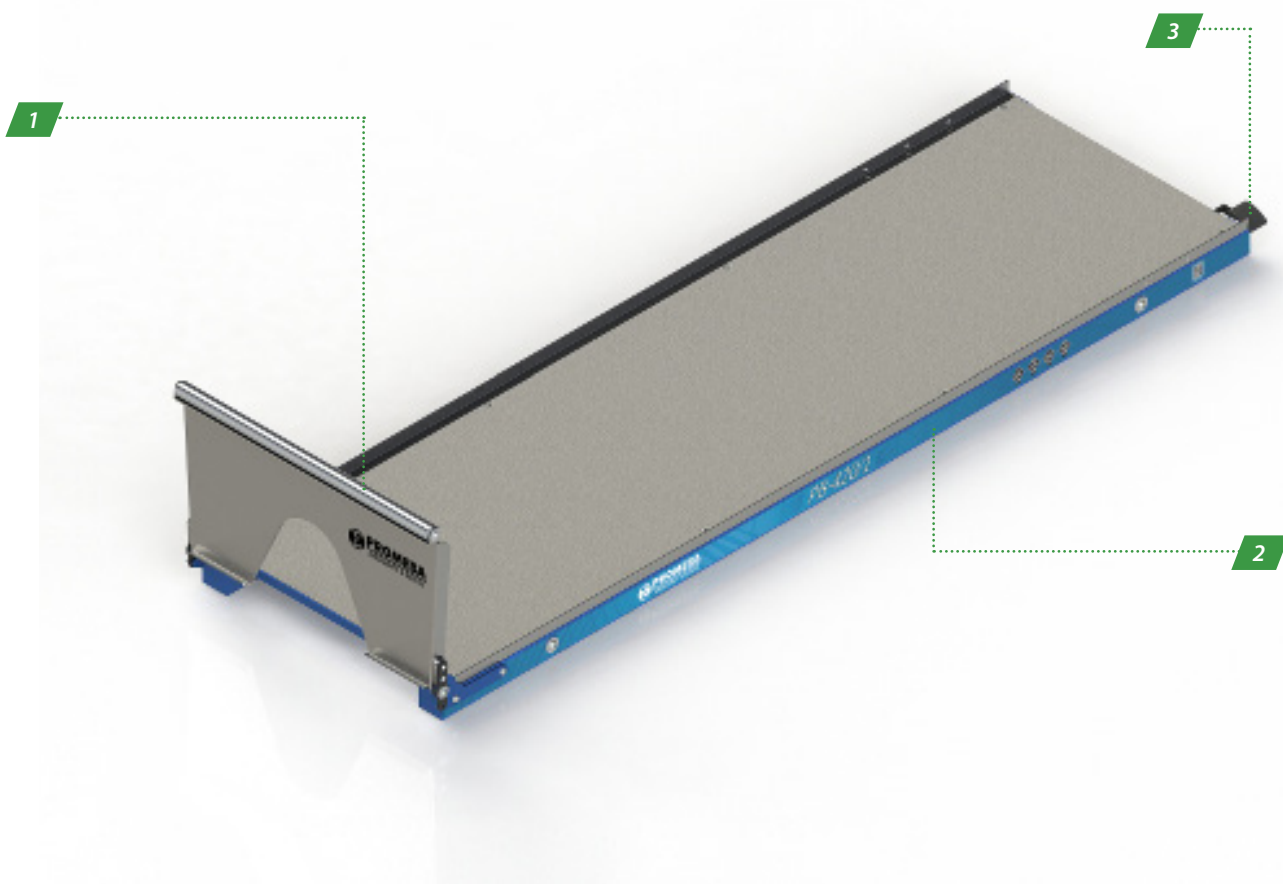
1. Stainless steel ramp
2. Lodging for scoop stretcher
3. Ramp gradient regulator
4. Lateral shift base
5. Lateral shift operation lever



## 03 OPERATION

### 03.1 Commands PB-420/1

1. Stainless steel ramp
2. Lateral shift base
3. Lateral shift operation lever

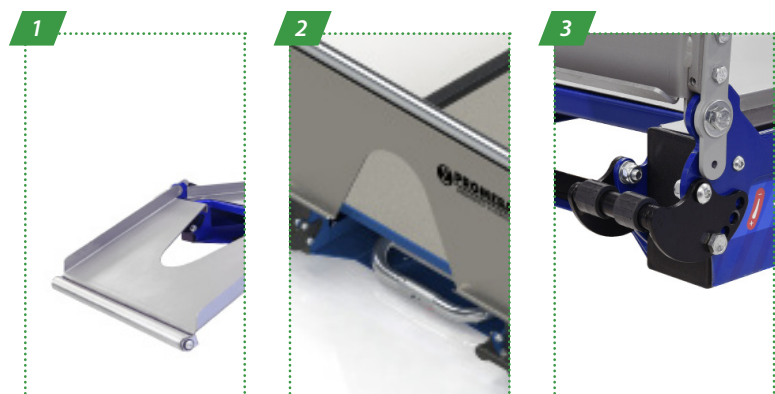
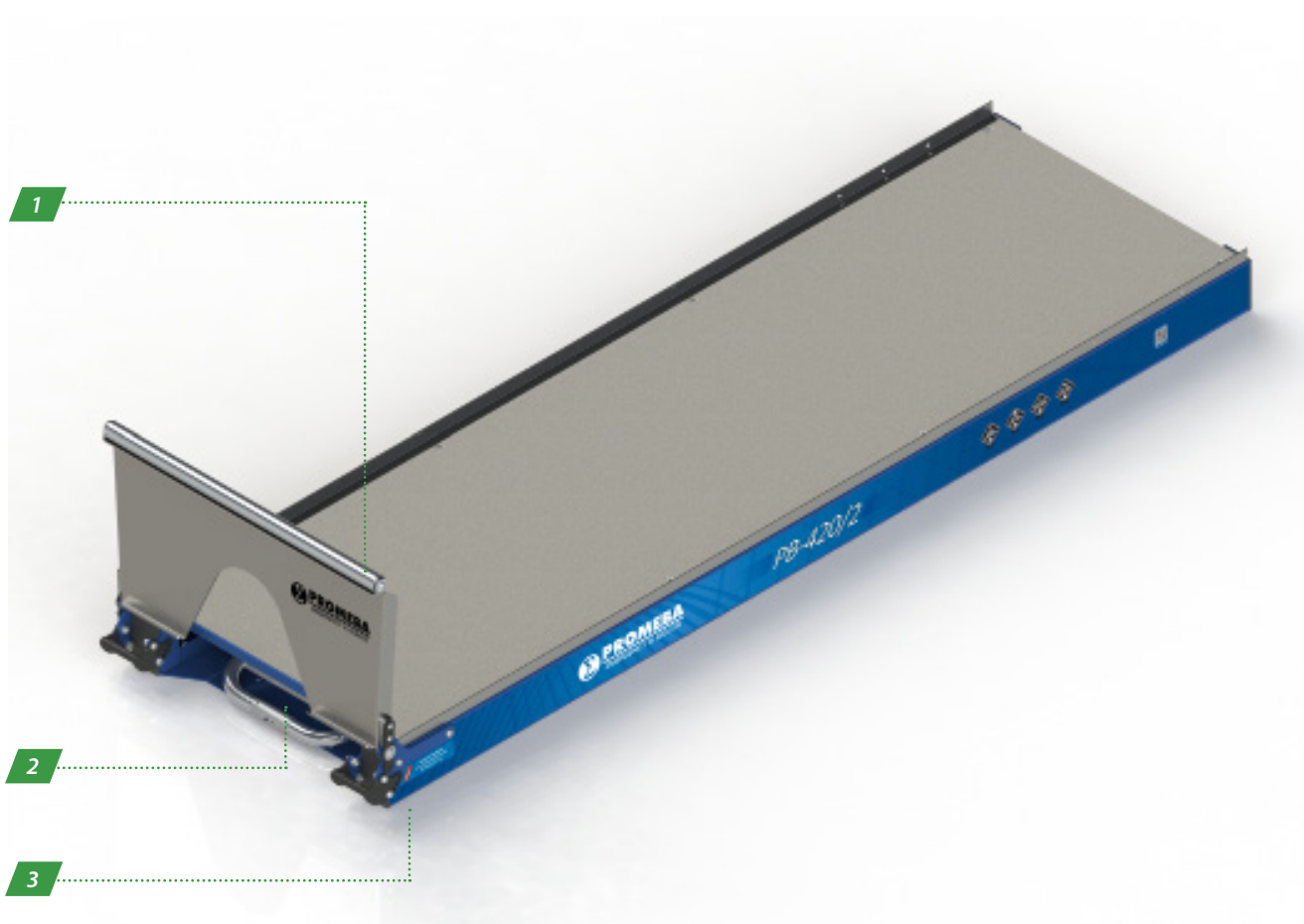




## 03 OPERATION

### 03.1 Commands PB-420/2

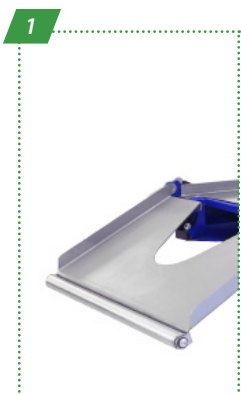
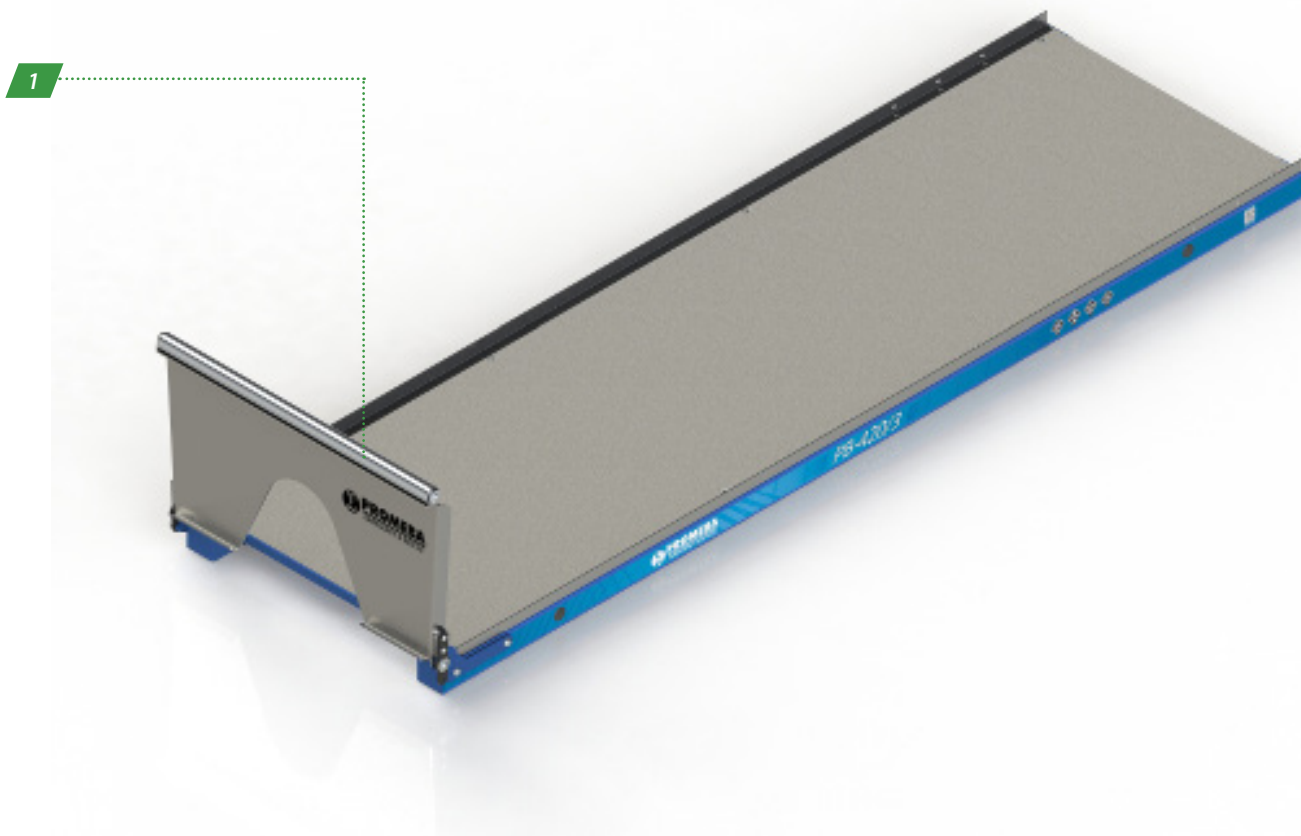
1. Stainless steel ramp
2. Lodging for scoop stretcher
3. Ramp gradient regulator



## 03 OPERATION

### 03.1 Commands PB-420/3

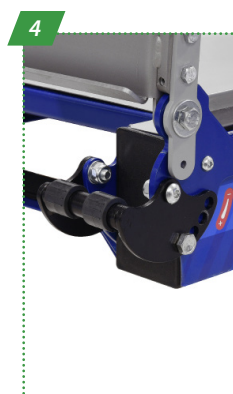
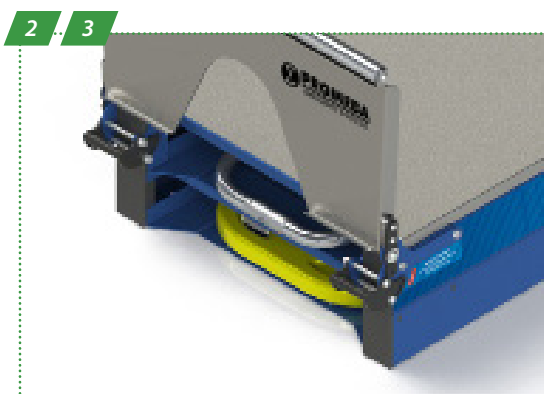
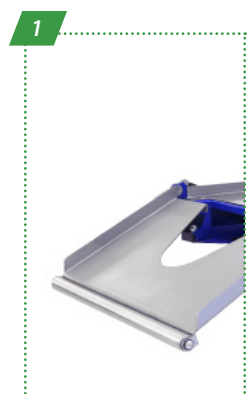
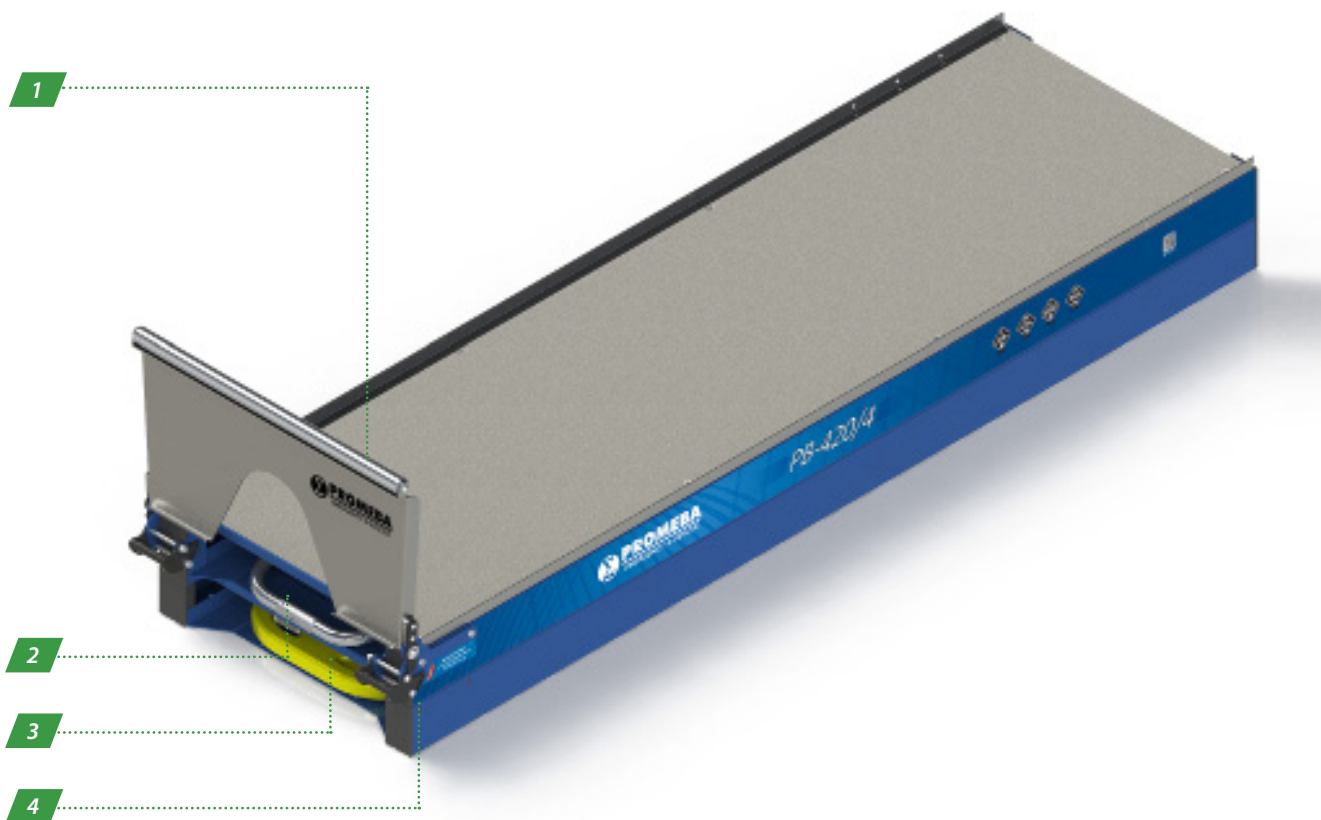
1. Stainless steel ramp



## 03 OPERATION

### 03.1 Commands PB-420/4

1. Stainless steel ramp
2. Lodging for scoop stretcher
3. Lodging for spine board
4. Ramp gradient regulator





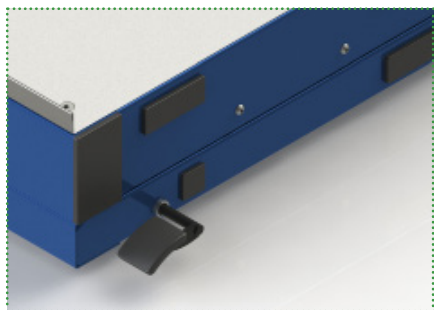
## 03 OPERATION

### 03.2 Manual system elements

#### LATERAL SHIFT

Operate the lever located on the rail right rear side, exerting a little effort on it with the foot accompanying this movement with its slide with the hands.

The total lateral displacement is **300 mm**.





## 03 OPERATION

### 03.3 Loading and unloading

#### LOADING

- Rail position in active service inside the ambulance (A)
- Open the loading ramp (B)
- Load the stretcher being specially cautious not to hit with the sides of the ramp.
- Fold the loading ramp (C)

#### UNLOADING

- Open the loading ramp (B)
- Release the stretcher closure by operating the lever (in case of being installed)
- Pull the stretcher. It will slide outward, hold it with the hands.
- Fold the loading ramp (C)

A



B



C



## 03 OPERATION

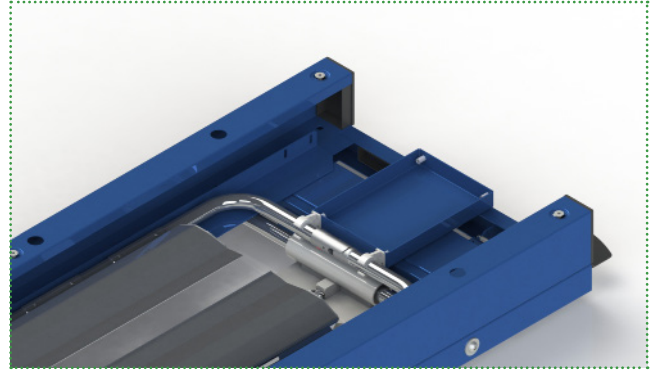
### 03.4 Scoop stretcher fastening

FOR MODELS PB-420 • PB-420/2 • PB-420/4

#### FIXING

To place PC 335 and PC 337 scoop stretchers, slide the scoop stretcher face down, between the stretcher anchor sheet and the tray until it butts with clamp grippers.

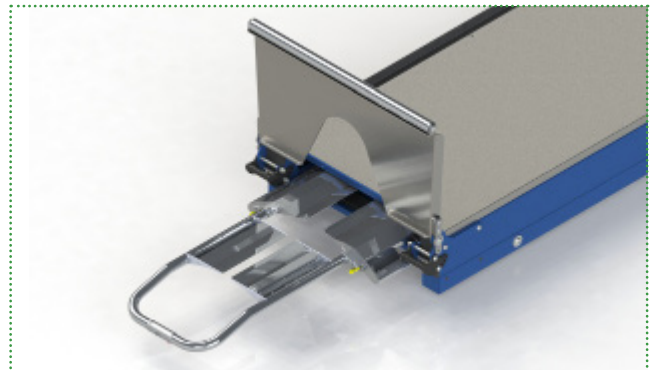
Once contact is made, securely tighten it until it affixed.



#### EXTRACTING

To extract the scoop stretcher, pull it hard until it is unlatched from the clamp grippers.

For your convenience, we recommend to take the stretcher by the roller to use more force.



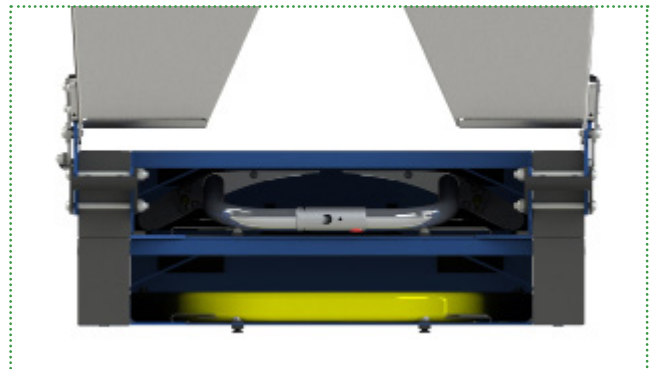
### 03.5 Spine board fastening

FOR MODEL PB-420/4

#### FIXING

To place the scoop stretcher, slide it face down, between the stretcher anchor sheet and the tray until it butts with clamp grippers. Once contact is made, securely tighten it until it affixed.

To save the spine board it should be located into the lower housing and fixed through Velcro tape for this purpose.

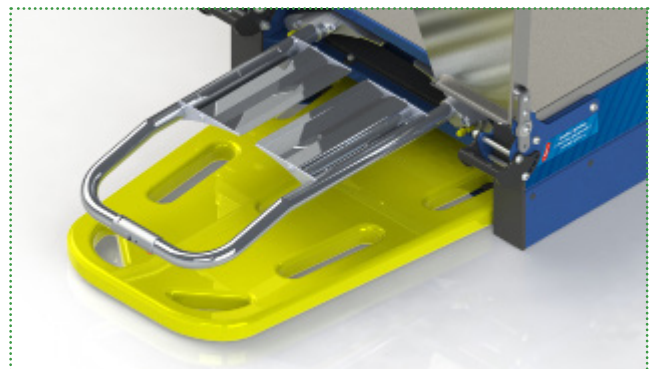


#### EXTRACTING

To extract the scoop stretcher, pull it hard until it is unlatched from the clamp grippers.

For your convenience, we recommend to take the stretcher by the roller to use more force.

You can move the spine board away by untying fastening velcro tapes.





## 03 OPERATION

### 03.6 Tensors

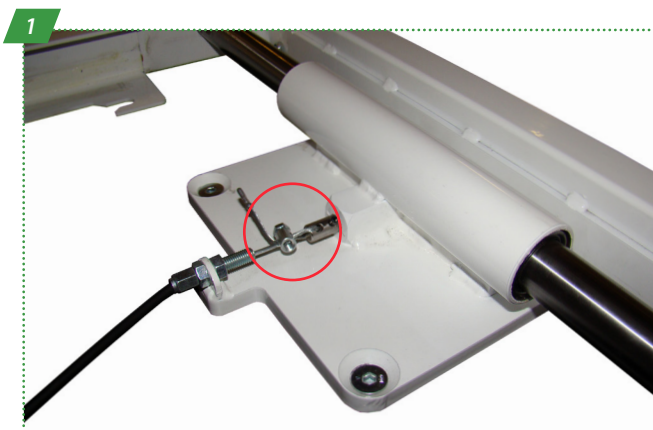
FOR MODELS PB-420 • PB-420/1

To adjust the drive cables tension, the rail has two sets of tensors for its regulation (depending on model):

#### 1. LATERAL SHIFT LEVER

Double set of tensors located on each of the attachment plates on the floor.

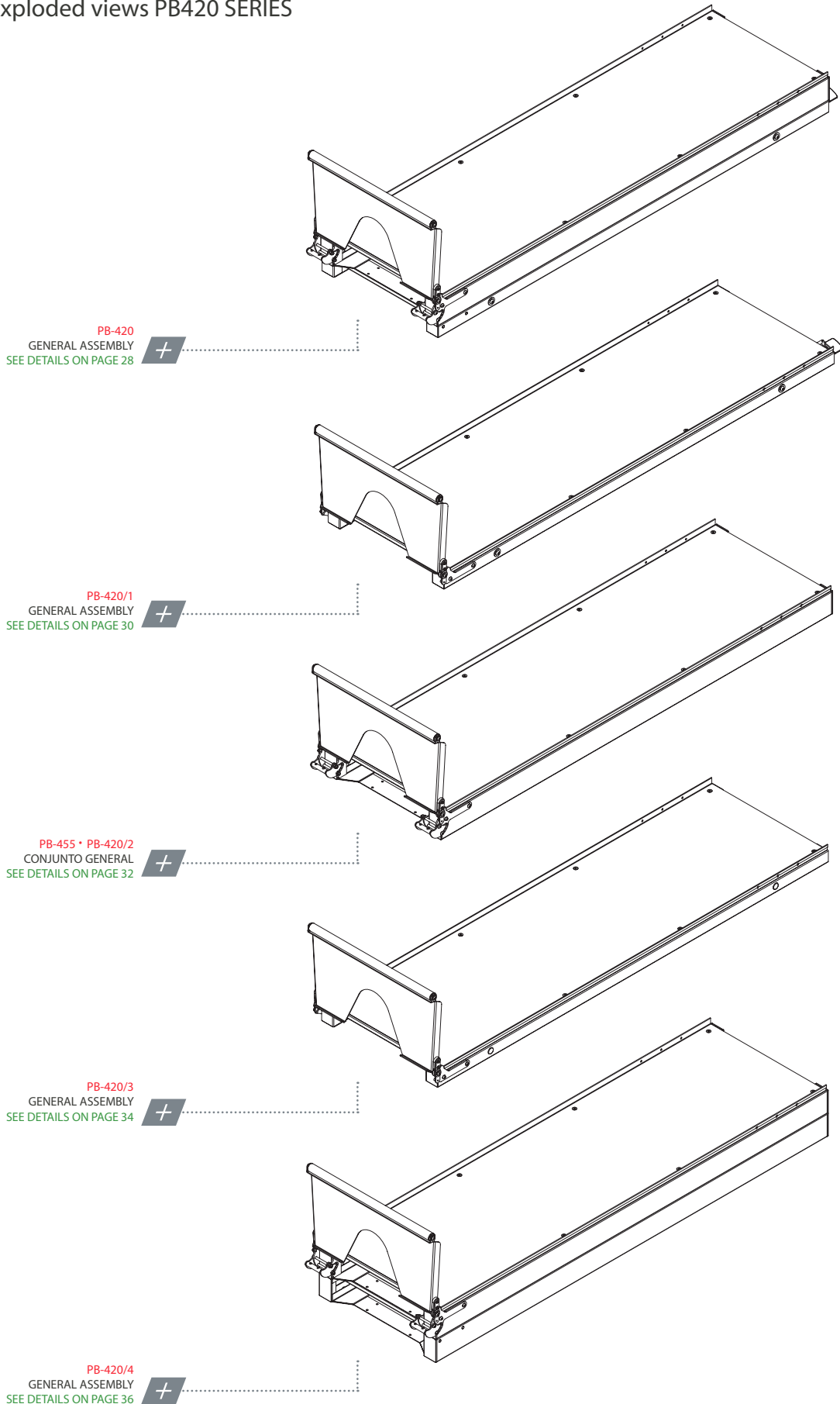
Manual operation by pedal.





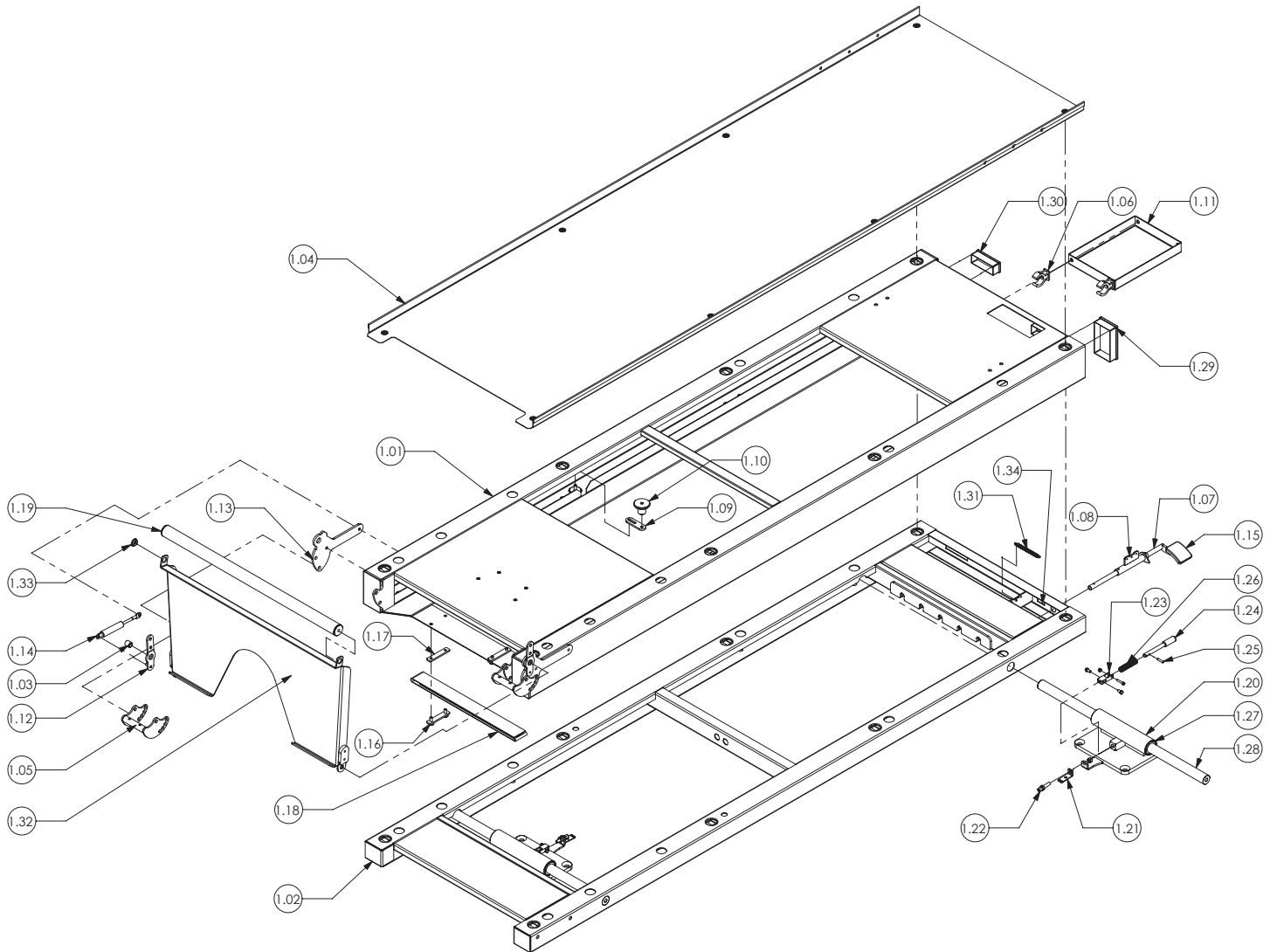
# 04 MOUNTING AND COMPONENTS

## 04.1 Main exploded views PB420 SERIES



# 04 MOUNTING AND COMPONENTS

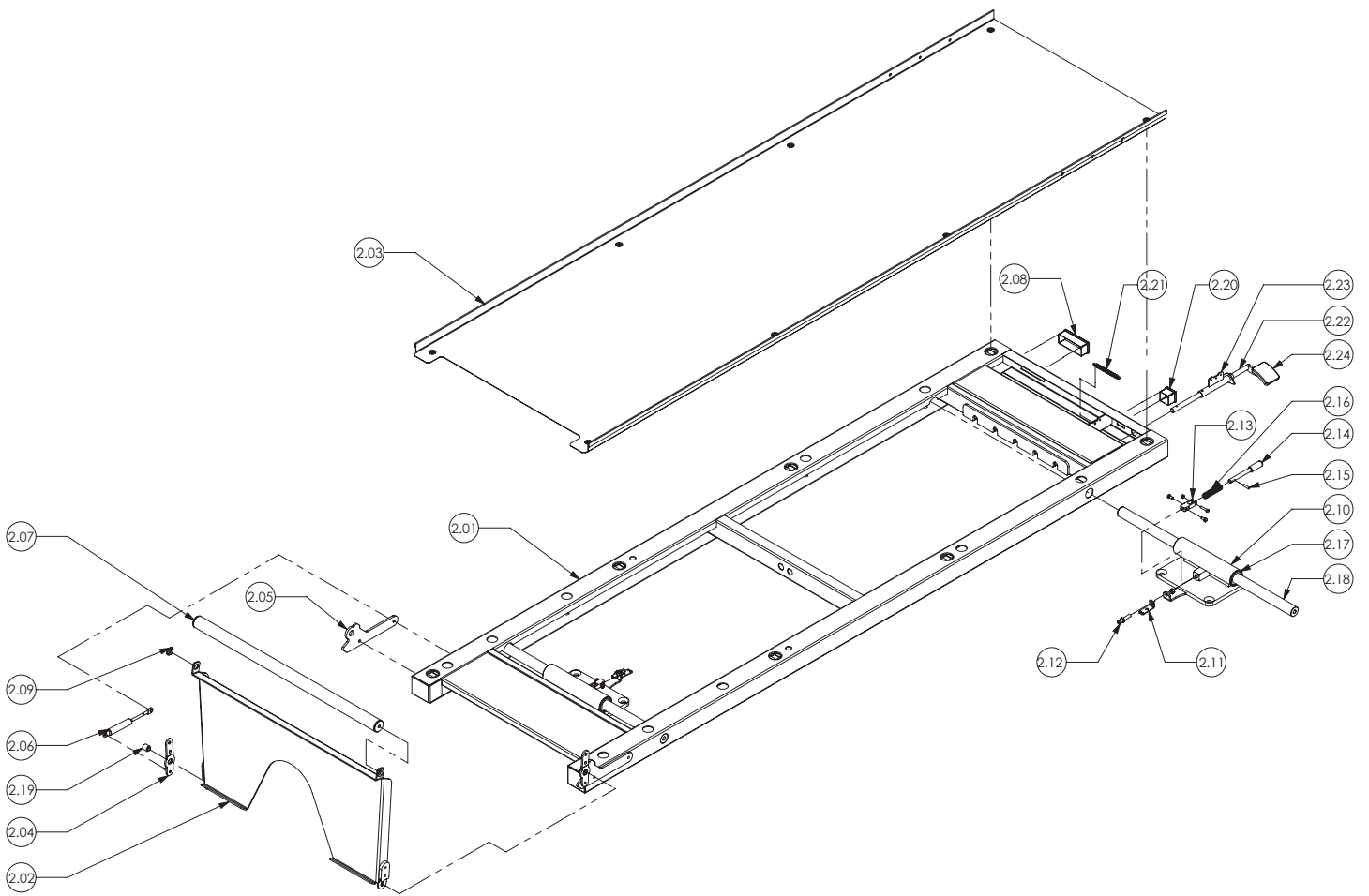
## 04.2 Main exploded view PB-420





# 04 MOUNTING AND COMPONENTS

## 04.4 Main exploded view PB-420/1



# 04 MOUNTING AND COMPONENTS

04.5 Bill of materials:

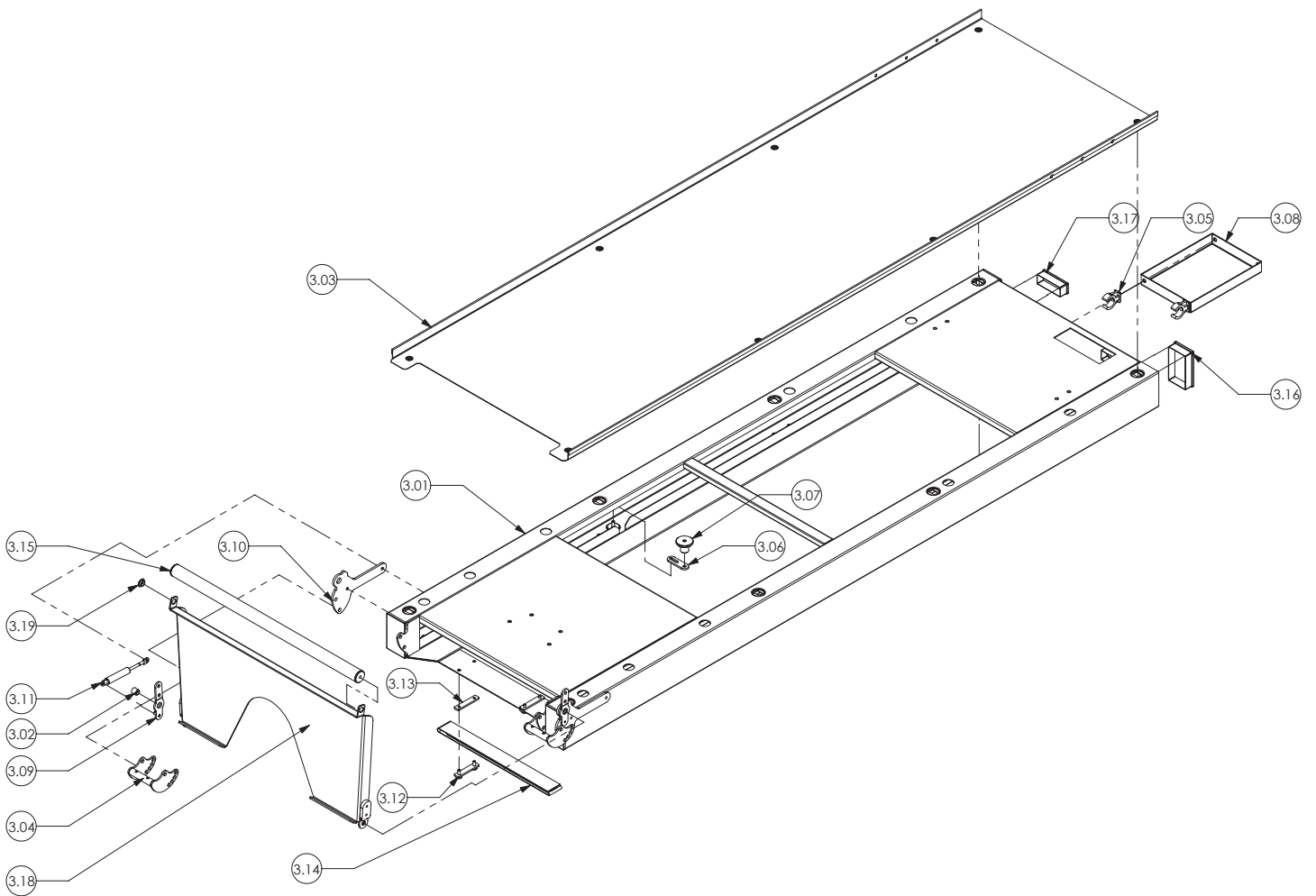
GENERAL ASSEMBLY

PB-420/1

ELEMENT	CODE - DESCRIPTION	UNITS
2.01	PB4200-01012 - SUBCONJUNTO PLATAFORMA	1
2.02	PB4200-03072 - SUBCONJUNTO RAMP A LARGA	1
2.03	PB4200-03010 - SAFATA INOXIDABLE RAIL	1
2.04	PB4200-03112 - SUBCONJUNTO SOPORTE AMORTIGUADOR	1
2.05	PB4200-03132 - SOPORTE RAMP A	2
2.06	PB4200-03140 - AMORTIGUADOR DE GAS RAIL	1
2.07	PB4200-03241 - SUBCONJUNTO RODILLO LARGO	1
2.08	TAPPLA-80x30 - TAPON PLASTICO INTERIOR 80x30	2
2.09	PB4200-03260 - CASQUILLO RODILLO	2
2.10	PB4100-01012 - SUBCONJUNTO PLETINA COLLADA	2
2.11	PB4100-00460 - ANGULO SOPORTE CABLE TENSOR	2
2.12	PB4010-00040 - TENSOR UNIVERSAL	2
2.13	PC6170-03291 - BRIDA SUJECCIÓN BALDA	2
2.14	PB4100-00291 - BALDA FIJACIÓN	2
2.15	PA1481-4x18N - PASADOR ELASTICO D-1481 4X18 NEGRO	2
2.16	303-339 - MUELLE COMPRESIÓN 55x13.75x2	2
2.17	KH2540 - COJINETE DE BOLAS	4
2.18	PB4200-01210 - GUIA MOVIMIENTO LATERAL	2
2.19	PB4200-03230 - CASQUILLO GIRO RAMP A	2
2.20	TAPPLA-30x30 - TAPON PLASTICO INTERIOR 30x30	1
2.21	PA5100-05031 - MUELLA ESPIRAL HILO PIE	1
2.22	PB4200-01122 - SUBCONJUNTO PALANCA PIE	1
2.23	PB4200-01162 - SUBCONJUNTO TENSOR TOPE	1
2.24	PB4100-02360 - GOMA PEDAL MOVIMIENTO LATERAL	1

# 04 MOUNTING AND COMPONENTS

## 04.6 Main exploded view PB-420/2





# 04 MOUNTING AND COMPONENTS

04.7 Bill of materials:

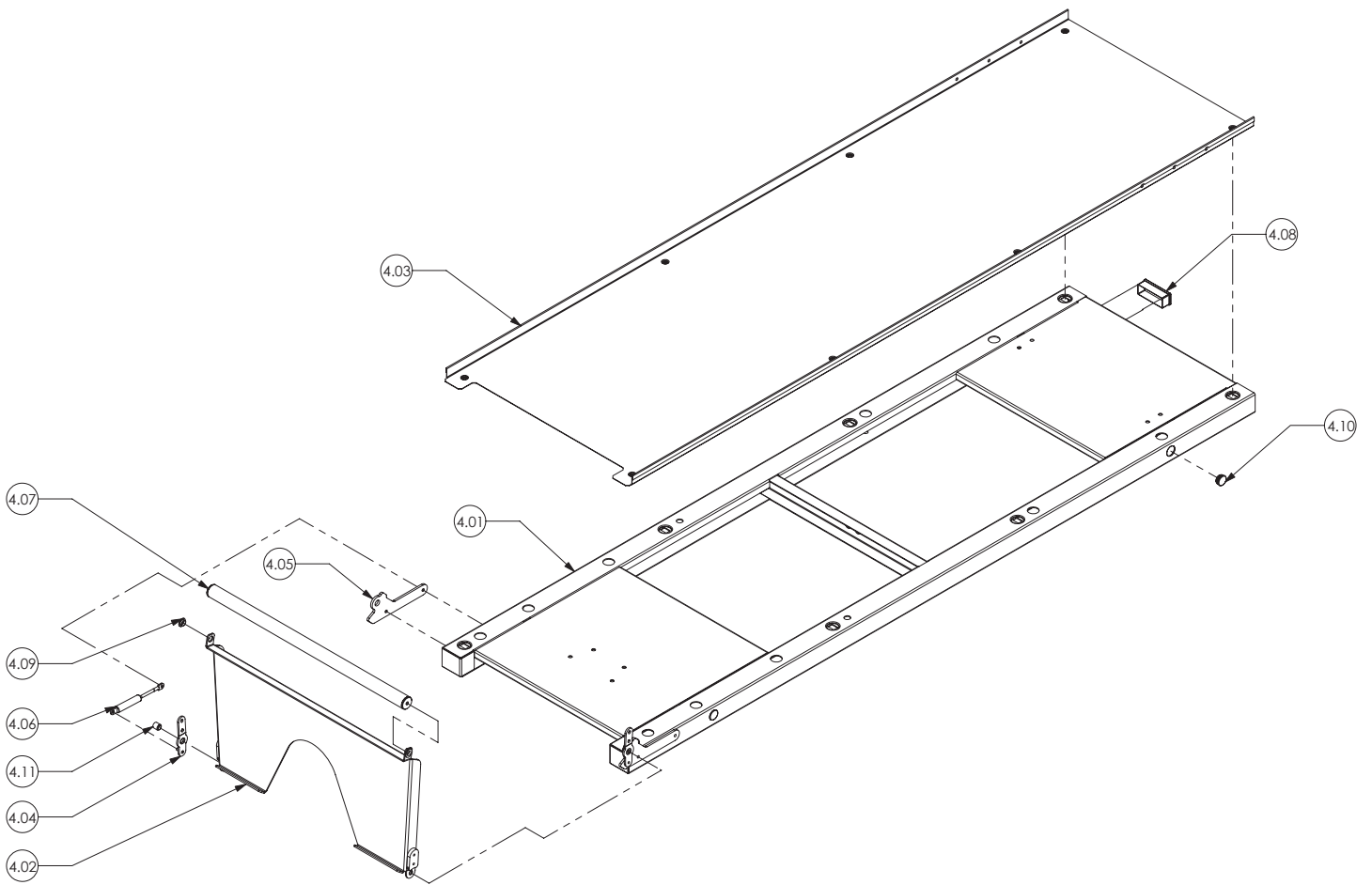
GENERAL ASSEMBLY

PB-420/2

ELEMENT	CODE - DESCRIPTION	UNITS
3.01	PB4200-02012 - SUBCONJUNTO SUPLEMENTO	1
3.02	PB4200-03230 - CASQUILLO GIRO RAMPA	2
3.03	PB4200-03010 - SAFATA INOXIDABLE RAIL	1
3.04	PB4170-03172 - SUBCONJUNTO TOPE RAMPA	2
3.05	PB4100-04420 - BRIDA SUJECION PALAS	2
3.06	PB4200-02112 - CHAPA TOPE CAMILLA	2
3.07	PB4200-02090 - CASQUILLO SOPORTE CAMILLA	2
3.08	PB4200-02082 - U TOPE PALAS	1
3.09	PB4200-03112 - SUBCONJUNTO SOPORTE AMORTIGUADOR	2
3.10	PB4170-03132 - SOPORTE RAMPA PB-417	2
3.11	PB4200-03140 - AMORTIGUADOR DE GAS RAIL	1
3.12	PB4170-03281 - SUBCONJUNTO FIJACION CINTURONES	2
3.13	PC2100-04012 - PASAMANO 14x4	2
3.14	PC6500-05100 - CINTA SUJECCION CAMILLA 1mt	1
3.15	PB4200-03241 - SUBCONJUNTO RODILLO LARGO	1
3.16	TAPPLA100x60 - TAPON PLASTICO INTERIOR 100x60	4
3.17	TAPPLA-80x30 - TAPON PLASTICO INTERIOR 80x30	2
3.18	PB4200-03072 - SUBCONJUNTO RAMPA LARGA	1
3.19	PB4200-03260 - CASQUILLO RODILLO RAMPA	2

# 04 MOUNTING AND COMPONENTS

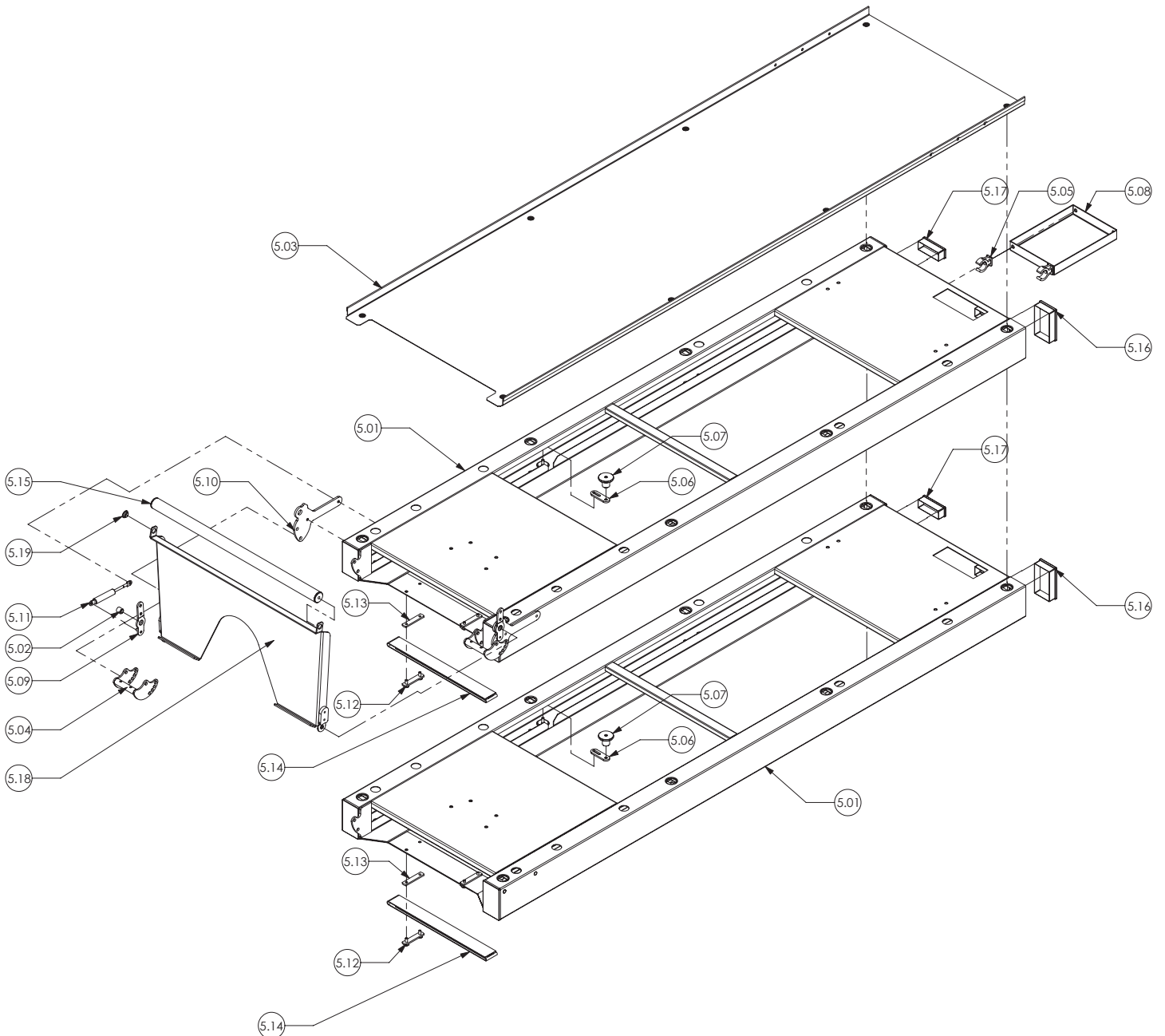
## 04.8 Main exploded view PB-420/3





# 04 MOUNTING AND COMPONENTS

## 04.10 Main exploded view PB-420/4



# 04 MOUNTING AND COMPONENTS

04.11 Bill of materials:

GENERAL ASSEMBLY

PB-420/4

ELEMENT	CODE - DESCRIPTION	UNITS
5.01	PB4200-02012 - SUBCONJUNTO SUPLEMENTO	2
5.02	PB4200-03230 - CASQUILLO GIRO RAMPA	2
5.03	PB4200-03010 - SAFATA INOXIDABLE RAIL	1
5.04	PB4170-03172 - SUBCONJUNTO TOPE RAMPA	2
5.05	PB4100-04420 - BRIDA SUJECION PALAS	2
5.06	PB4200-02112 - CHAPA TOPE CAMILLA	4
5.07	PB4200-02090 - CASQUILLO SOPORTE CAMILLA	4
5.08	PB4200-02082 - U TOPE PALAS	1
5.09	PB4200-03112 - SUBCONJUNTO SOPORTE AMORTIGUADOR	2
5.10	PB4170-03132 - SOPORTE RAMPA PB-417	2
5.11	PB4200-03140 - AMORTIGUADOR DE GAS RAIL	1
5.12	PB4170-03281 - SUBCONJUNTO FIJACION CINTURONES	4
5.13	PC2100-04012 - PASAMANO 14x4	4
5.14	PC6500-05100 - CINTA SUJECCION CAMILLA 1mt	2
5.15	PB4200-03241 - SUBCONJUNTO RODILLO LARGO	1
5.16	TAPPLA100x60 - TAPON PLASTICO INTERIOR 100x60	8
5.17	TAPPLA-80x30 - TAPON PLASTICO INTERIOR 80x30	4
5.18	PB4200-03072 - SUBCONJUNTO RAMPA LARGA	1
5.19	PB4200-03260 - CASQUILLO RODILLO RAMPA	2

## 05 GENERAL MAINTENANCE

### CLEANING

It is essential to keep the equipment clean to ensure a proper use and durability of the set. A thorough clean must be done periodically, especially in areas exposed to dirt that may be damaged such as gears, connectors, switches, etc.

Do not use high-pressure cleaning systems, they can damage the product.

### CONTROLS AND SELECTORS

Due to the intense and continuous use of mobile elements such as commands and switches, periodically examine its proper operating.

There may be failures in micro-switches and wiring, inspect the attachments and the electrical or mechanical connections that may exist.

### GREASE

Generally, every moving part should be greased. Our products leave the factory completely greased and lubricated. However, it is possible that the elements are degreased over time and the use of the product, either by lubrication loss or dirt. Clean and grease periodically the affected areas according to the manufacturer's specifications.

Check for loose, missing or worn parts. Periodically examine every moving element to make sure that components are tighten.

### WEAR AREAS

Inspecting regularly on the system components for signs of wear is a preventive measure that can reduce breakdowns. Check possible lubricant leakages, grooves or bearing in poor condition.

### MECHANICAL FIXING

We generally call mechanical fixing elements to the components used to fix the product as a whole, mainly screws and derivatives.

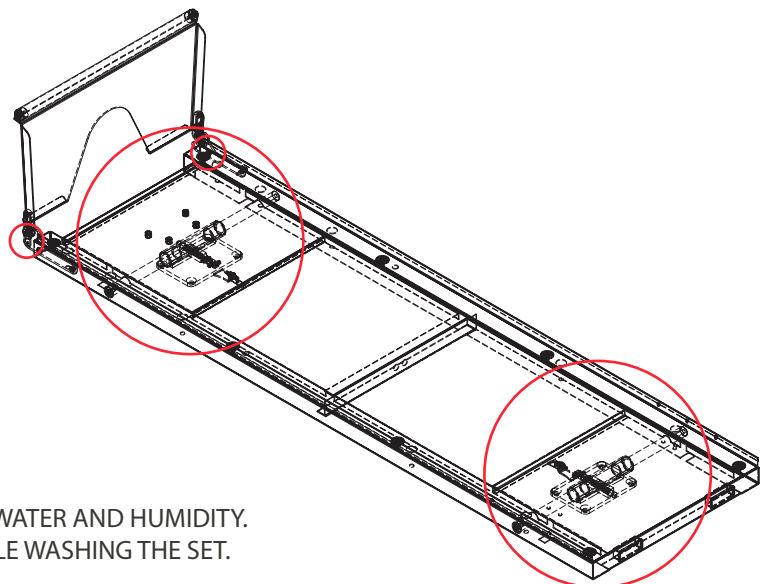
To some terms of use, due to vibrations or impacts certain elements may lose their tightening torque or fixing properties.

Periodically review that there are no loose elements, especially on moving parts of the set. Please note and always respect the recommended tightening torques.

### REPLACEMENT OF COMPONENTS

This manual does not include procedures for all parts. Qualified service personnel should replace cables, switches and certain mechanical parts without step-by-step procedures.

The qualified service personnel should contact our commercial department for information about ordering spare parts and its installation.



MAKE SURE TO KEEP THESE AREAS FREE OF WATER AND HUMIDITY.  
TAKE SPECIAL CARE NOT TO WET THEM WHILE WASHING THE SET.

## 06 LEGAL NOTICES

This document may contain technical inaccuracies or typographical errors.

Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication.

**Promeba, S.L.** reserves the right to make, if considered appropriate, any modification or improvement to the products described in this publication.

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## 07 PRODUCT WARRANTY

**Promeba, S.L.** warrants that their products have successfully passed all quality controls, both functional and material. The warranty period is 2 years from the date of purchase.

This warranty will only be granted when the original invoice or sales receipt (indicating the date of purchase, model and the distributor's name) is presented together with the defective product during the warranty period. **Promeba, S.L.** reserves the right to not offer the free warranty service if the indicated documents are not presented or if the information provided by the consumer is false, incomplete or illegible.

*1. This warranty shall not apply if the model's name or the serial number has been altered, removed, disappeared or is illegible.*

*2. This warranty does not cover transportation costs or risks associated with the transport of the product to and from **Promeba, S.L.***

*3. This warranty does not cover any of the following cases:*

*A. Regular maintenance and reparation or replacement of parts from the normal wear and use.*

*B. Consumables (components that may need periodic replacements during the product's life, such as non-rechargeable batteries, bulbs, etc.)*

*C. Damages or defects resulting from the use, operation or improper treatment of the product and not caused by a normal use of it.*

*D. Damages arising from:*

*i. Improper use, including:*

*- Treatment resulting in damages or physical changes, surface or appearance changes of the product.*

*- Installation, use or storage of the product in a manner inconsistent with the instructions described by **Promeba, S.L.***

*- Product maintenance in a manner inconsistent with the instructions of **Promeba, S.L.** for a proper maintenance.*

*- Installation or product use in a manner inconsistent with the technical or security standards of the country where it is used or installed.*

*ii. Use of components not supplied with the product or incorrect installation of accessory parts previously untested.*

*iii. States or defects of the system in which the product is incorporated with the exception of other products of **Promeba, S.L.** designed for its use with the product.*

*iv. Product use with accessories, peripheral units and other products of a type, condition or standard not established by **Promeba, S.L.***

*v. The manufacturer or distributor shall be solely responsible for determining the sending of parts for its reparation or the replacement of the product in its entirety. In no circumstance shall operators be sent to such reparation or product replacement.*

Except in the cases mentioned above, **Promeba, S.L.** shall not give any guarantees in relation to the product, operation, accuracy, reliability or adaptability for an equipment logical purpose or any other type. If this exception is not lawful or established in the law, **Promeba, S.L.** shall limit or exclude their guarantees only to the extent that the applicable law permits it.

The only obligation of **Promeba, S.L.** regarding this warranty is to repair or replace the parts subjected to the terms and condition of this warranty.

**Promeba, S.L.** is not liable for loss or damages to products, this warranty or others, including economic loss or not assessable damage; the price paid for the product; loss of profits, incomes, information, usufruct or use of the product or associated products or indirect loss or damage, accidental or critical.

This clause refers to whether the loss or damage is due to a product deterioration or inoperability associated to defects or unavailability of **Promeba, S.L.** that caused a downtime, user's time loss or a business interruption.

In the cases in which the law prohibits or limits these responsibility exclusions, **Promeba, S.L.** shall exclude or limit their responsibility only to the extent that the law allows. For example, many countries forbid the exclusion or limitation of damages caused by negligence, gross negligence, wilful misconduct, fraud and similar acts. The responsibility of **Promeba, S.L.** in this warranty shall not exceed, in any case, the price paid for the product, but if the applicable law permits only responsibility limitations of major responsibilities, these shall be applied.







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Productos Metálicos del Bages, SL

Ctra C-16 Km 59.5 · 08650 Sallent (Barcelona) · SPAIN

T. 93 837 12 00

[promeba@promeba.com](mailto:promeba@promeba.com) · [www.promeba.com](http://www.promeba.com)