



INSTRUCTION MANUAL



Man. Ada.Lig.Lig. EN Rev.6 09/2025



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NOTE: The Illustrations in the following Instruction Manual may differ from reality; however, the methods of use and operation remain valid at all times. All technical data in this manual are approximate and do not constitute specifications.

INTRODUCTION

Dear User, thank you for choosing highly performing Pro Medicare medical device.

ADACTA LIGA Light is the Frame for Positioning System for children, teenagers and adults, it is the combination of technology and experience in the development of Positioning Systems for users with limited ability. Thanks to its modularity and different possibilities of adjustment, LIGA Light allows effective adaptation to changes of the user's needs, providing the best comfort with maximum functionality. As manufacturer, Pro Medicare declares that the medical device complies with Regulation (EU) 2017/745. Pro Medicare's Quality Management System is certified according to UNI EN ISO 9001 and UNI EN ISO 13485 standards. This manual, drawn up on the basis of the requirements of Regulation (EU) 2017/745 on medical devices, is an indispensable tool for learning how to use the Device safely.

This manual contains all instructions for a correct and safe use of the frame combined with the positioning system.

To this end, it is important to read the information about how to use it carefully, with the express invitation to follow the prescribed indications.

As a manufacturer, Pro Medicare refers to the Professional User as the suitably qualified person (authorised dealer, orthopaedic technician, occupational therapist, healthcare professional, etc.), and to the End User (or lay person) as the person who is intended to use the Device (caregivers, family members, etc.).



The first commissioning, subsequent adjustments and Special Maintenance must exclusively be performed by the Professional User.

The Technical features of the device are reported in the Annex A "Technical Features".

After consulting this manual, for further information, please contact the Technical Sales Department at the number **+39 0831 777840**, Monday to Friday from 9 a.m. to 1 p.m. and from 2.30 p.m. to 6.30 p.m.

In case of emergencies outside the working hours, please send an email to **sales@promedicare.it**.

We will call you back as soon as possible.

In order to ensure appropriate After-Sale Monitoring of Devices placed on the market and put into service, or in the event of an incident during the use, please refer to the instructions stated in the relevant chapter.

USE

The LIGA Light Frame for Positioning System is made in satin aluminium alloy to ensure lightness and long-lasting durability during the use. It has been designed and manufactured in compliance with the safety standards of Regulation (EU) 2017/745.

LIGA Light, due to its modularity, is able to follow the evolutions of the pathological scheme of the users as well as the growth and the postural changes. The device, combined with the relevant positioning system, is intended for a personal use and has to be used with the assistance of a caregiver both indoor and outdoor.

The Professional User is the responsible for the safety performance of the LIGA Light and the Positioning System combination specially manufactured for the specific user and in compliance with the Standards.

The first commissioning, subsequent adjustments and Special Maintenance must exclusively be performed by the Professional User. If a custom-made Positioning solution is fitted and adjusted as prescribed, it may not be used for other users.

The CE Declaration of Conformity refers exclusively to the Medical Device prepared and provided by the manufacturer, "as-is", when the Device is unchanged with respect to the standard configuration. The Professional User has the responsibility to guarantee the effectiveness and efficiency of the Device specially manufactured for the specific user.

Pro Medicare is constantly dedicated to innovate its own Devices; This can entail changes in form or technique on the devices and/or related accessories. Therefore, hypothetical complaints on values, images and schemes defined in the this manual, will not be accepted. Furthermore, for the complete list of the optional parts and/or accessories, please refer to the latest order form in force.

1. INSTRUCTIONS OF USE

1.1 Packaging and Transport

The original packaging contains the following components:

- frame for Positioning System (rigid or folding) with backrest canes folded down, posterior wheels and footrest detached
- any Accessories as per order form
- labeling and Instruction Manual.

Upon delivery, please check for the integrity of the package and immediately note any damages or anomalies on the shipping document. Then open up the packaging and check that the various parts do not show dents, drippings, deformations or tears. Otherwise note the anomalies found on the shipping document.

After performing these checks and if the product has not to be put into immediate use, we recommend to repack and store it in a dry place.

The above operation will be carried out by the Professional User who has to perform the assembling procedures of the Frame for Positioning System with the Positioning System.

1.2 Preliminary Operations for correct Commissioning

A positioning system produced by different manufacturing company, when installed on a LIGA Light frame, should have the seat and backrest with a proper mounting system for a good fit on the tubes of the frame (25mm).

The professional user and the end user need to check that the frame/posture connection system is safely manufactured.

The frame is delivered with all movable components disassembled; it is necessary to put it in service.



These operations must exclusively be performed by the Professional User, who is responsible for the safety performance of the combination and/or configuration.

1.2.1 Operations for the "commissioning of the frame"

1) Unfolding the Frame for Positioning System (folding model)

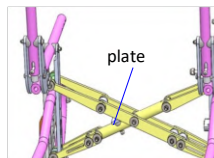
Push down the cross brace until the two arms come into contact with the plate as shown in the picture (pic. 1)

Verify the correct opening of the frame by checking:

- the impossibility of movement of the cross brace;
- the complete contact of the central bars on the supporting plate.



Be careful not to trap the fingers in the cross brace.

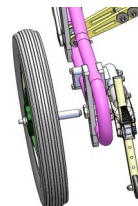


pic. 1: Cross brace

2) Assembling the posterior wheels

To assemble the posterior wheels, insert the quick-release axle in the special bush fixed in the mounting plate (pic. 2), by pressing and then releasing the button. Verify the correct inserting of the wheels by checking:

- the release of the button of the quick-release axle;
- the impossibility of movement of the wheel.

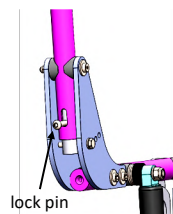


pic. 2: Assembling the posterior wheels

3) Unfolding backrest tubes

Pull the backrest tubes by the push handles and bring them in upright position until you hear a click indicating the engagement of the lock pin. (Pic 3)

Verify the correct positioning of the backrest tubes by checking they are stable and do not rotate.



pic. 3: Backrest tube

4) Inserting the legrest tube

ADULT Size

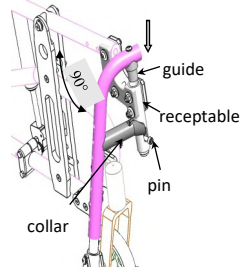
Insert the footrest hanger perpendicularly to the seat tube (Pic 4.1).

Insert the guide in the appropriate receptacle in the superior part of the tube.

Rotate the footrest hanger inward until the collar locks with the receptacle pin indicating it has been gripped.

Verify the correct positioning by checking the impossibility of rotation of the hanger.

Regarding the vertical elevating and telescopic knee angle, please see page 13.



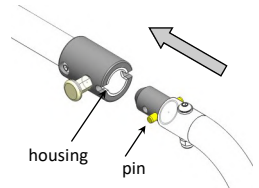
pic. 4.1: Inserting the adult size legrest tube

PAEDIATRIC Size

Insert the extremity of the footrest hanger tube in the seat tube (Pic 4.2).

Push the tube until the pin locks in its housing.

Verify the correct positioning by checking the hanger is in position and doesn't come off.



pic. 4.2: Inserting the paediatric size legrest tube

5) Checking the tyre pressure (where provided)

Ensure that the pressure is always as indicated on the tyre because the brake efficiency depends on it.

6) Checking anti-tip system

* Standard and fixed version:

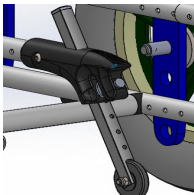
This component reduces the risk of the structure tipping over under normal conditions of use.

The anti-tip system works properly (pic. 5.1) if they are between 25mm and 40mm from the floor; if they are positioned too high they do not reduce the risk of tipping, if they are positioned too low they can hit obstacles.

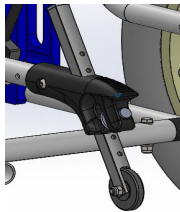
To activate the anti-tip system (pic. 5.3) pull the ring outwards and slide the anti-tip system tube:

- pic. 5.2 shows the anti-tip system is positionated too high and it is not working properly

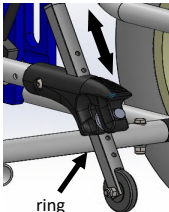
- pic. 5.1 shows the anti-tip system is positionated in a good distance from the floor and it is working properly



pic. 5.1



pic. 5.2



pic. 5.3

* Detachable version (pic. 5.4) when provided:

This system can have the option to completely remove the anti-tip system from the frame only by pushing the pin showed in pic. 5.4. For inserting, squeeze the button and insert the tube by sliding it until the button stops in its housing. Verify the correct operation by ensuring the impossibility of movement or detachment of the device from the frame.

See "Standard and fixed version" section to read instructions about the functioning.



pic. 5.4 Detachable anti tip system



It is absolutely forbidden using the anti-tip system, both in the standard and detachable versions, as pedal for overcoming barriers.

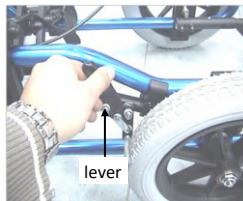
7) Checking the Parking Brake (pic. 6)

To activate the parking brake, push the lever forward until a “click” is audible and the brake is pressing against the tyre. Check that the wheel doesn’t move. Please release the lever to unlock the brake. To ensure that the wheel stops correctly, check that the distance between the brake and the wheel tyre is 6mm.

If not, please adjust as follows:

- unscrew the 2 brake clamp fixing screws
- adjust the distance between the brake and the wheel tyre (estimated value: 6mm)
- screw the 2 fixing screws
- check the wheels stop correctly.

If the wheel is equipped with a drum brake, it is necessary to check for the proper function by activating the lever located on the backrest tube. Once the lever is activated, the wheels are locked with no possibility of movement. If the lever is not pressed, the wheels will be able to move freely. These brakes can be used to brake the system while is using. The braking force of the drum brake can be adjusted using the adjusting screw on the brake cable near the brake hub. The braking force can be increased by slightly unscrewing the adjustment screw. Loosen the nut and unscrew the screw until a friction noise is heard in the wheel rotation. Retighten the screw until the friction disappears. Tighten the nut to secure the adjusting screw.



pic. 5: Activating the brake lever



Take care to adjust the drum brakes on both sides of the frame in the same way.

8) Checking the Gas Springs

Verify that the gas springs do not leak oil. Check the functionality by activating the tilt mechanism ever located on the backrest tube.



After all these operations please ensure that the frame moves easily and all components work properly. If you hear noise, vibrations or if there are any changes to the normal conditions of use, please contact the Professional User; He will check the safety conditions, the suitability for use and the effectiveness of the Device.

9) Checking the Pedal (where provided) (pic. 7)

The pedal must only be used to overcome barriers (step); to use it, please perform as follows:

- Push the anti-tipping system upwards.
- Lower the pedal to a horizontal position
- push on the pedal with your foot, also using the push handles to overcome the barrier (do this very slowly, gradually and with care)
- Place the pedal back in an upright position to avoid accidental impacts when transporting the user.



After overcoming the barrier, please pay attention to handling. If you hear noise, vibrations or if there are any changes to the normal conditions of use, please contact the Professional User; He will check the safety conditions, the suitability for use and the effectiveness of the Device.



pic. 7: Pedal

1.3 Adjustments for the first Commissioning and/or subsequent adjustments

The Frame combined with the Positioning System is now ready to be used. Adjustments for the first Commissioning and subsequent adjustments to the changing needs of the end user are possible thanks to multiple adjustment possibilities of the frame. All possible adjustments are described in this chapter.



These operations must exclusively be performed by the Professional User, who is responsible for the safety performance of the combination and/or configuration.

1a) Tilting seat (tilt in space by lever)

The adjustment of the tilt in space is performed by two gas spring by operating the lever on the right hand push handle. In this way the tilting of the seat is adjustable in a continuous way.

When the lever is released, the gas springs will block the seat at the reached position.

If this operation is performed with the user seated in the system, it is necessary to hold the push handles with both hands.

Then proceed by activating the gas spring and the tilt mechanism.

Please, perform this operation very slowly gradually and with care.



While performing this operation, always ensure that the anti-tip system is fitted and correctly positioned and the user is well seated on the seat by wearing a pelvic belt.

Also ensure that the forearms are positioned on their upper limb supports to reduce the risk of trapping.

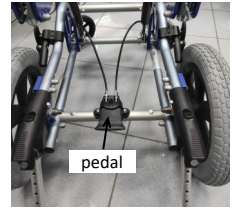
1b) Tilting with pedal (optional)

By pressing on the pedal and acting on the backrest tubes it is possible to tilt the seat in a continuous way. When the pedal is released, the springs will lock the seat in the position reached. Perform this operation very slowly, gradually and with care.



While performing this operation, always ensure that the anti-tip system is fitted and correctly positioned and the user is well seated on the seat by wearing a pelvic belt.

Also ensure that the forearms are positioned on their upper limb supports to reduce the risk of trapping.



pic.8: Tilting with pedal

2) Reclining the backrest (by pin or quick release)

This adjustment is performed by engaging the desired hole located on the backrest tubes connecting plates.

In particular (pic. 9):

- Lift the pin of the backrest tubes folding system placed on the lower end of each tube.

This operation will make the backrest tubes free;

- Unscrew the bolt that joins the two connecting plates of the backrest tubes (with quick-release, press the quick-release pin button and pull it outwards, disengaging it from the reclining plates.

- Depending on the desired reclining value, insert the screw in the appropriate holes in the plate and screw it in without tightening the self-locking nut; the regular tightening is achieved by checking that the screw exits the thread from the plastic ring of the self-locking nut.

The holes allow the following values with respect to the vertical position:

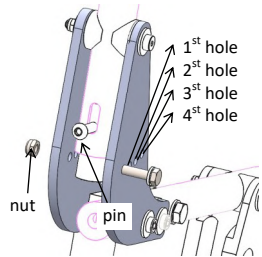
1st hole = 3°

2st hole = 9°

3st hole = 15°

4st hole = 22°

- Pull the backrest tubes and bring them in vertical position until you hear a click indicating the tube has been locked in position.



pic. 9: reclining the backrest



Verify the correct position of the backrest tubes by checking they do not rotate.

3) Adjusting the Footplates

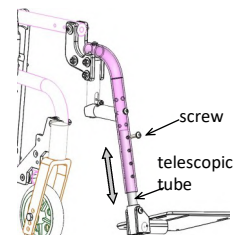
The footplates can be adjusted in height, depth and angle.

• Height Adjustment of the footplates

ADULT Size

Fixed angle at 90° and 75° (pic. 10.1):

- unscrew and loosen the fixing screws of the telescopic tube
 - move the insert along the hanger until the desired position is achieved
 - reinsert the screw in the appropriate hole and tighten
- Vertical elevating and telescopic knee angle can be adjusted by operating on the locking lever located on the tube:
- open the locking lever
 - move the tube until the desired position is achieved
 - close the lever.

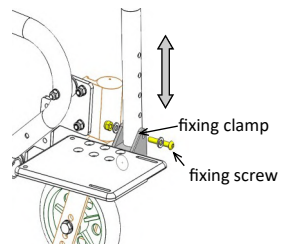


pic. 10.1: Adult size height adjustment

PAEDIATRIC Size (pic. 10.2)

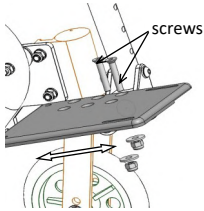
unscrew and remove the exagonal head fixing screw

- move the fixing clamp along the hanger until the desired position is achieved
- reinsert the screw in the appropriate hole and screw without tightening the self-locking nut;
- the regular tightening is achieved when the screw exits from the thread of the plastic ring of the self-locking nut.

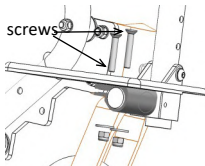


pic.10.2: Paediatric size Height adjustment

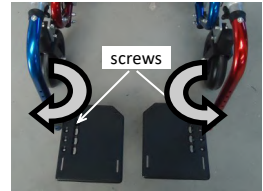
- **Depth Adjustment of the footplates** (pic. 10.3):
 - unscrew and remove the 2 countersunk head fixing screws
 - move the footplate back and forth until the desired position is achieved
 - reinsert and tighten the screws.
- **Angle Adjustment of the footplates** (pic. 10.4):
 - unscrew and loosen the 2 countersunk head fixing screws
 - rotate the footplate clockwise or counterclockwise until the desired position is achieved;
 - reinsert the fixing screws and tighten securely.
- **Intra-extra rotation adjustment of the footplates** (pic. 10.5):
Slightly loosen the screws on both the hole and the slot to adjust the intra-extra rotation of the footrests.



pic. 10.3: Depth adjustment



pic. 10.4: Angle adjustment



pic.10.5: Intra-extra rotation adjustment



After these adjustments, ensure that the footrests do not hit the castors.

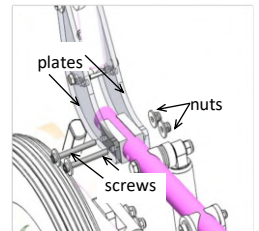
4) Frame Depth Adjustment

The frame is delivered in its standard configuration. Depending on the user's needs, it is possible to adjust the depth of the frame as follows:

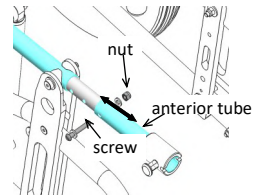
- **Posterior part** of 50mm, with a gap of 25mm, by moving the backrest tubes
- **Anterior part** of 30mm by moving the legrest tube block.
- **Posterior part depth adjustment** (pic. 11.1):
 - unscrew and remove the 2 fixing screws of the plates on the longitudinal tube
 - slide the plates along the tube by engaging the relevant holes of the desired value
 - insert the fixing screws and tighten to a torque level of 13.5Nm.

Once this adjustment has been carried out, it is strongly recommended to perform a repositioning of the posterior wheels in order to avoid unsafe tipping situations.

It is sufficient to perform a slide movement of 15-20mm in the same direction of the depth adjustment by following the instructions reported in the section **6) Displacement of the plates** on pages 11, 12.
- **Anterior part depth adjustment:**
ADULT Size (pic. 11.2)
 - unscrew and remove the fixing screw of the legrest tube locking plates
 - slide the plates along the tube by engaging the relevant hole to the desired value
 - Insert the fixing screw and tighten to a torque level of 13.5Nm.



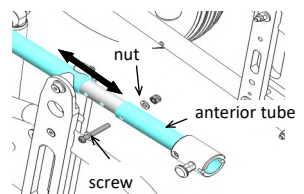
pic. 11.1: Posterior part depth adjustment



pic. 11.2: Anterior part depth adjustment

PAEDIATRIC Size (pic. 11.3)

- unscrew and remove the fixing screw of the telescopic anterior tube
- slide the plates along the anterior tube by engaging the relevant hole to the desired value
- insert the fixing screw and tighten to a torque level of 13.5Nm.

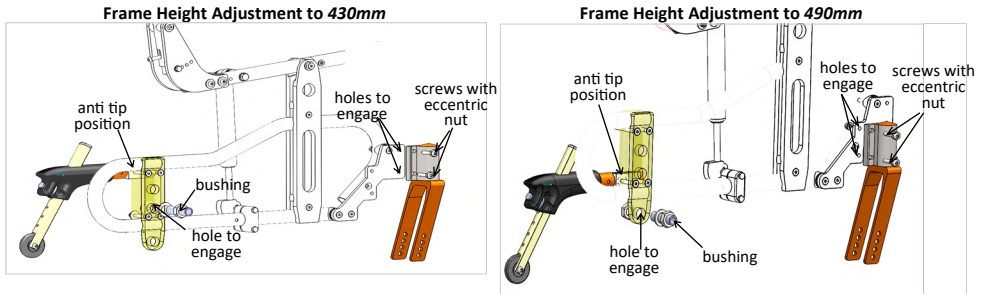


pic.11.3: Paediatric size adjustment

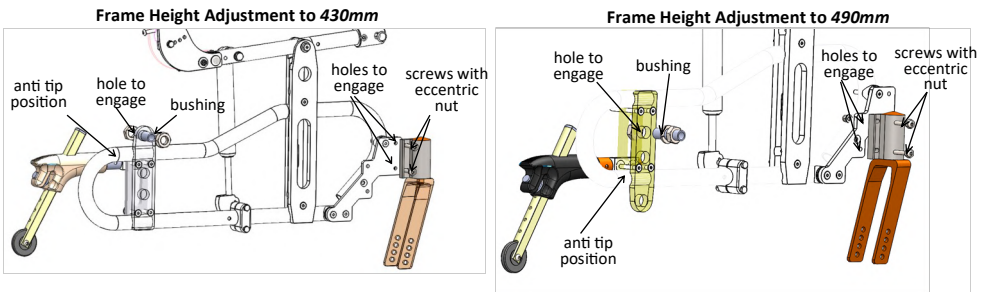
5) Frame Height Adjustment

The Frame Height Adjustment to 430mm and 490mm can be performed both with the 300mm and 500mm posterior wheels; please refer to the following schemes to switch from one height to the other in function of the wheels provided.

✓ 300mm WHEELS



✓ 500mm WHEELS



Once this adjustment has been made, it is strongly recommended to perform a reposition of the posterior wheels plates and seat sliding plates in order to avoid unsafe tipping situations. It is sufficient to perform movements by following the instructions reported in the section **6) Displacement of the plates** on pages 11, 12, 13.

To change the Frame Height, please perform as follows:

A) Change the position of the RH and LH forks

- unscrew the two rounded head screws with eccentric nut connecting the fork to the plate
- engage the two relevant holes as reported in the scheme. Pay attention to the position of the eccentric nut: it has to be such that the fork axis is horizontal. Tighten at torque level of 13.5Nm.

B) Repositioning the posterior wheels bushing

- disengage the wheels mounted on the frame
- disengage the parking brakes
- remove the wheel drive bushing
- unscrew and loosen the 4 countersunk screws locking the wheel plates
- if needed, rotate 180° the outer plates of the wheels
- mount the bushings by engaging the relevant hole as shown in the scheme
- firmly tighten the two nuts, placed one with washer outside to the plate and the other inside.

C) Repositioning the Anti-tip System

- remove from the inner plate the Anti-tip System with the relevant interface stud
- mount the Anti-tip System with the relevant stud by engaging the holes as shown in the scheme
- screw and tighten the 4 countersunk screws of the plate at torque level of 13.5Nm.

D) Mounting the posterior wheels

Verify the correct functioning of the wheels by checking:

- the release of the quick release axis button
- the impossibility of the wheel to be detached.

E) Mounting the parking brake

For the correct parking of the wheels, adjust the distance between the brake pin and the tyre of the wheel by operating as follows:

- unscrew the 2 fixing screws of the brake clamp
- adjust the distance between the brake pin and the tyre of the wheel (estimated value 6mm)
- tighten the 2 fixing screws
- Verify the parking of the wheels.



After having performed these operations make sure that the Frame is easy to move and that all components work in harmony. If you hear noise, vibrations or if there are any changes to the normal conditions of use, please contact the Professional User; he will check the safety conditions, the suitability for use and the effectiveness of the Device.

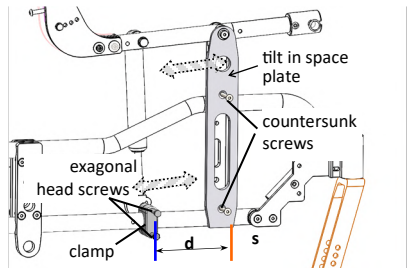
6) Displacement of the plates

The frame is delivered in its standard features. Depending upon the users needs, it is possible the continuous horizontal displacement of seat with respect to the frame and the continuous displacement of the posterior wheels plates. These adjustments are analysed in detail below:

- Displacement of the seat (Folding model) -

The displacement of the seat with respect to the frame can be done as follows (pic. 12.1):

- measure the distance d between the tilt-in space plate and the clamp of the gas spring
- unscrew and loosen the countersunk screws fixing both plates of the tilting mechanism
- unscrew and loosen the exagonal head screws fixing both clamps of the gas spring
- slide the tilt-in-space plates along the frame until the moving value s in the picture
- move the clamps of the gas spring in the same direction of the tilt-in-space plates until the previously detected value of the distance d is restored
- tighten the countersunk screws of the tilt-in-space plates to a torque level of 13.5Nm
- tighten the exagonal head screws of the gas spring clamp to a torque level of 13.5Nm.

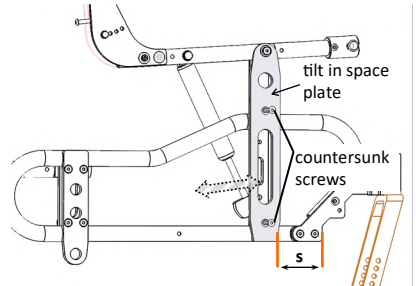


pic. 12.1: Displacement of the seat (Folding model)

- Displacement of the seat (rigid model) -

The displacement of the seat with respect to the frame can be done as follows (pic. 12.2):

- unscrew and loosen the countersunk screws fixing both tilt-in-space plates
- slide the tilt-in-space plates along the frame until the moving value s in the picture
- tighten the countersunk screws of the tilt-in space plates to a torque level of 13.5Nm.



pic. 12.2: Displacement of the seat (rigid model)

Moving value s for the displacement of the seat

- ✓ **430mm Frame Height** (with 300mm and 500mm wheels) and **450mm Frame Height** (with 400mm wheels)

Frame size	US, XXS	XS, XS0	XS1, S, L	M, M1, XL
Displacement (mm)	from 50 to 60	from 60 to 70	from 50 to 65	from 60 to 75

- ✓ **490mm Frame Height** (with 300mm e 500mm wheels) and **470mm Frame height** (with 600mm wheels)

Frame size	US, XXS	XS, XS0	XS1, S, L	M, M1, XL
Displacement (mm)	from 60 to 70	from 70 to 80	from 60 to 75	from 70 to 85

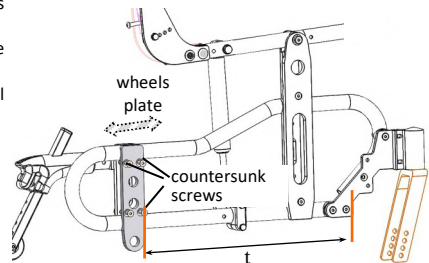
The displacement s is detected from the edge of the fork fixing plate to the first edge of the tilt-in space plate.

! After each operation check the position of the brakes and, if needed, perform adjustment as reported on page 7 point 7. After having performed these operations make sure that the Frame is easy to move and that all components work in harmony. If you hear noise, vibrations or if there are any changes to the normal conditions of use, please contact the Professional User; He will check the safety conditions, the suitability for use and the effectiveness of the Device.

- Displacement of the posterior wheels plate -

The displacement of the posterior wheel plates can be done as follows (pic. 12.3):

- unscrew and loosen the countersunk screws of the wheels plates
- slide the plates along the frame to the moving value t in the picture
- tighten the 4 countersunk screws of the plates to a torque level of 13.5 Nm.



pic. 12.3: Displacement of the posterior wheels

Moving value t for the displacement of the seat

- ✓ **430mm Frame Height** (with 300mm and wheels) and **450mm Frame Height** (with 400mm wheels)

Frame size	US, XXS	XS, XS0	XS1, S, L	M, M1, XL
Displacement (mm)	from 360 to 380	from 370 to 390	from 370 to 390	from 380 to 400

Frame size	US, XXS	XS, XS0	XS1, S, L	M, M1, XL
Displacement (mm)	from 370 to 390	from 380 to 400	from 380 to 400	from 390 to 410

- ✓ **490mm Frame Height** (with 300mm e 500mm wheels) and **470mm Frame Height** (with 600mm wheels)



7) Knee Angle Adjustment (where provided)

ADULT Size

Vertical elevating and telescopic type (pic. 13.1, 13.2)

* Angle adjustment:

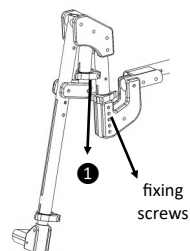
- open clamping collar number ①
- move the legrest tube toward you until the desired position is achieved
- close the clamping collar and fix the inclination of the legrest tube.

* Rotation Centre Adjustment:

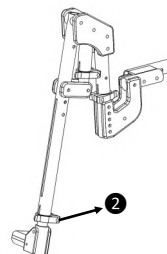
- unscrew the fixing screw
- slide the rod vertically the telescopic tube until the desired position is achieved
- engage the relevant holes
- tighten the fixing screws at a torque level of 13.5Nm.

* Footplate height adjustment:

- open clamping collar number ②
- extend the legrest tube until the desired position is achieved
- close the clamping collar and fix the height of the footplate.



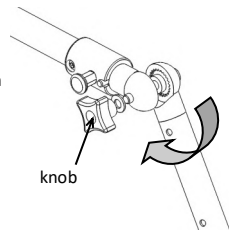
pic. 13.1: Vertical elevating and telescopic knee angle adjustment



pic. 13.2: Height adjustment of vertical elevating and telescopic knee angle footplate

PAEDIATRIC Size (pic. 13.3)

- unscrew and loosen the fixing knob
- rotate the hanger until the desired position is achieved
- tighten the knob gradually so as the teether mechanism engages and blocks the position of the hanger.



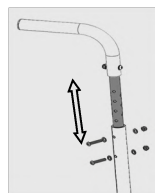
pic. 13.3: Paediatric size knee angle adjustment

8) Push Handles Adjustment (where provided)

Push Handles adjustment by pin (pic. 14.1)

The push handles of the backrest tubes can be height adjusted by pin (max course 100mm with gap of 25mm) as it follows (pic. 14.1):

- unscrew the two round head screws
- adjust the height of push handles as desired by engaging the relevant holes
- tighten the two round head screws.



pic. 14.1: Push handle adjustment by pin

Telescopic Push Handles with Lever Block (pic. 14.2)

- loosen the locking lever of the telescopic push handles (placed on the backrest tube) by lifting it up
- adjust the height and/or orientation of the handles as desired
- close the collar locking lever
- make sure the handles are secure and do not allow any movement.

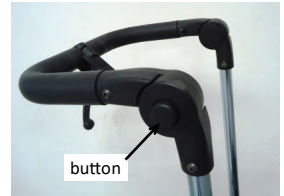
(The same operations can be performed in case of the single handlebar)



pic. 14.2: Telescopic push handles with lever block

Angle-adjustable single handlebar for rigid frame (pic. 14.3)

- press the side buttons on the handlebar
- adjust the orientation of the handlebar as desired
- release the side buttons
- make sure that the two side buttons have been released.



pic. 14.3: Angle-adjustable single handlebar

9) Kit ABS Laterals with armrest (where provided)

1) Armrest

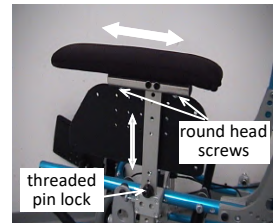
Armrest can be height and depth adjustable (pic. 15.1).

• **Height adjustment**

1. unscrew the relevant threaded pin lock
2. adjust the height by moving the vertical bar up and down
3. once the desired position is achieved, tighten the pin lock in the relevant hole (the holes are placed at a distance of 15mm)

• **Depth adjustment** (for the complete kit only)

1. unscrew the round head screw that fix the armrest to the supporting tube
2. engage the holes under the armrest to adjust the depth (the holes are placed at a distance of 25mm).



pic. 15.1: Armrest adjustment

2) ABS Lateral

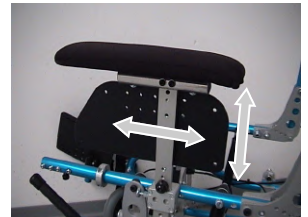
The ABS lateral is fitted of a row of holes placed at a distance of 25mm which allow a wide range of adjustment both in depth and height.

• **Depth adjustment** (pic. 15.2)

1. unscrew the 2 countersunk screws located in the inner part of the ABS lateral
2. adjust the position of the lateral by sliding it horizontally
3. tighten the screws when the desired position is achieved.

• **Height adjustment** (pic. 15.2) (for the complete kit only)

1. unscrew the 2 countersunk screws located in the inner part of the ABS lateral
2. adjust the height of the lateral by sliding it on the vertical bar
3. tighten the screws when the desired position is achieved.



pic.15.2: Depth/height adjustment



Verify the correct functioning of the ABS lateral:

- 1) *The correct placing of the snap pin*
- 2) *The not detachability of the ABS lateral.*

10) Flip back Tubular Armrest (where provided)

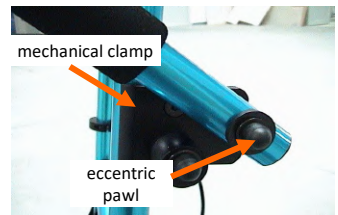
The armrest is mounted to the backrest tubes by means of mechanical clamps (pic.16) and it can be angle and height adjustable ($\pm 2.5^\circ$ with respect to the horizontal plane).

• **Height adjustment**

1. unscrew and loosen the countersunk screw and the hexagonal screw of the eccentric pawl
2. slide the clamp on the backrest tube until the desired height is achieved
3. re-tighten the screws.

• **Angle adjustment**

1. unscrew and loosen the hexagonal screws locking the eccentric pawl
2. rotate the pawl of the armrest at the desired inclination
3. re-tighten the hexagonal screws.



pic.16: Armrest

11) Arm Supports (when provided)

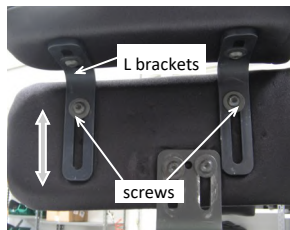
The arm supports are fixed to the hip guides by means of 2 slotted L brackets. They present 3 rows of threaded holes in order to allow a wide range of adjustments.

They can be adjusted in height, width and depth.

- **Height adjustment** (pic. 17.1)

1. unscrew and loosen the round head screws fixing the L brackets to the hip guide
2. move the arm support up and down until the desired position
3. tighten and fix the round head screws.

For a greater movement of the L bracket, it may be necessary that the screws engage a row of holes next to those already engaged (the rows have an interaxis of 25mm).



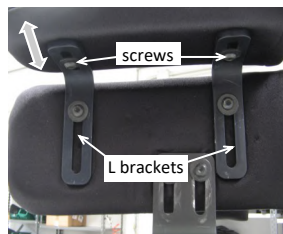
pic.17.1: Height adjustment

- **Width adjustment** (pic. 17.2)

1. unscrew and loosen the round head screws of the L bracket beneath the arm support
2. move the arm support inward and outward until the desired position
3. tighten and fix the round head screws.

- **Depth adjustment** (pic. 17.2)

1. unscrew and remove the round head screws of the L brackets fixed to the arm support
2. move the arm support back and forth along the hip guide until the desired position is achieved, by engaging the row of holes under the arm support
3. punch the cover, insert and fix the round head screws.



pic.17.2: Width/depth adjustment

12) Hip Guides (where provided)

The hip guides are fixed to the seat by the brackets. They present rows of threaded holes in order to allow a wide range of movements and adjustments.

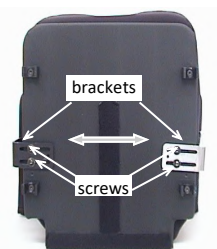
The distance between the two hip guides determines the width of the seat, which is adjustable. It is also possible to adjust the depth and the height of the hip guides.

- **Seat width adjustment** (pic. 18.1)

The width adjustment is made by changing the position of the hip guides, acting on the brackets, by means of which the hip guides are fixed to the seat base:

- unscrew and loosen the round head fixing screws of the bracket to the seat
- move the hip guide inward and outward of the seat until the desired position is achieved
- tighten the round head fixing screws.

For the movement of the bracket, it may be necessary that the screws engage a row of holes next to those already engaged (the rows have an interaxis of 25mm).



pic.18.1: Seat width adjustment by the hip guides brackets

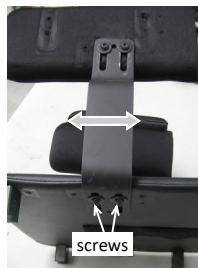
- **Hip guides depth adjustment**

It can be performed in two ways:

- A) By Moving the bracket of the hip guide along the seat (pic.18.2)
- B) By Moving the hip guide along the bracket (pic. 18.3)

In A) by operating on the round head screws of the bracket, located beneath the seat:

- unscrew and remove such screws
- move the hip guide back and forth along the edge of the seat base until the desired position is achieved by engaging the relevant row of holes
- punch the cover, insert and fix the round head screws.

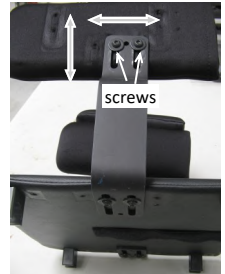


pic.18.2: Bracket adjustment

In B) by operating on the round head screws connecting the bracket to the hip guide:

- unscrew and loosen such screws
- slide the hip guide back and forth, until the desired position is achieved by engaging the relevant row of holes on the same hip guide
- punch the cover, insert and fix the round head screws.

For a greater movement of the hip guide, it may be necessary that the screws engage a row of holes next to those already engaged (the rows have an interaxis of 25mm).



pic.18.3: Bracket adjustment

• **Height adjustment** (pic. 18.3)

- unscrew and loosen the round head screws fixing the hip guide to the bracket
- move the hip guide up and down to the desired position
- retighten and fix the round head screws.

For a greater movement of the hip guide, it may be necessary that the screws engage a row of holes next to those already engaged (the rows have an interaxis of 25mm).

13) Pelvic Belt

To know more about its use, please refer to the relevant instruction manual.



Check the pelvic belt is fitted correctly and is suitable for the function for which it has been chosen. We do not recommend attaching the pelvic belt to the seat and wheelchair. It is not a safety belt and is not intended to be used as such.

14) Padded Calf Strap

To know more about its use, please refer to the relevant instruction manual.



Do not place the calf strap on any sensitive part.

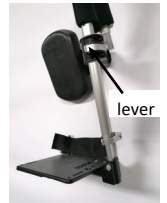
15) Padded/Simple Calf Support (where provided)

The Calf Support provides the posterior and lateral containment of the leg.

ADULT Size (pic. 19)

It can be adjusted in height as follows:

- loosen the lever located on the tube
- slide the calf support along the tube
- close the clamping lever when the desired position is achieved.



pic. 19: Adult size calf support

PAEDIATRIC Size (pic. 20)

It can be adjustable in height, by engaging the holes (placed at a distance of 25mm) drilled on the hanger, or in depth by engaging the holes drilled on the rear part of the same hanger.



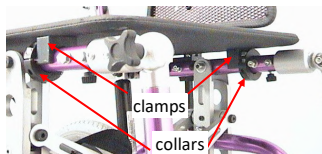
Ensure Calf Supports are properly locked.



pic. 20: Paediatric size calf support

16) Wooden Seat Base (where provided)

The wooden seat base (pic. 21) has the purpose to accommodate the positioning system and its accessories.



pic.21: Wooden Seat Base

It can be:

- Covered in leather flex material. Along its lateral edges it is featured of rows of threaded holes and 2 interlocking clamps both in the anterior and posterior parts that allow the mounting of the base on the frame. So that, lay the wooden base onto the tubes by paying attention to the position of the interlocking clamps: for a good installation they should be positioned

ned one in front and one behind the 2 collars mounted on the tubes. This operation impedes the movement of the seat backwards or forwards. The adjustments can be done by sliding the interlocking clamps along the the edges of the seat base or the relevant collars along the tubes of the seat by operating through the screws. After positioning, push the seat on the tubes until you hear a locking click to indicate the 4 interlocking clamps have grafted the tubes. If there are securing clamps, you have to close them tightly on the tube after positioned.

- **Raw (only wood) with mounting kit.** It is featured of 1 row of holes along the lateral edges, where the provided threaded t-nuts have to be inserted. Lay the wooden base on the seat tubes and detect 2 holes both in the anterior and posterior parts where the threaded nuts have to be inserted for the fixing of the interlocking clamps. The threaded nuts have claws that have to be completely embedded in the wood (even with hammer). The interlocking clamps have to be mounted on the face opposite to the threaded nuts. Pay attention to the 4 interlocking clamps and the 2 collars on the tubes: for a good installation the collars have to be mounted in strictly contact with the relevant clamp and be positioned alternatively one in front of the clamp in the anterior part of the base and the other behind the clamp on the opposite side in the posterior part. This operation impedes the movement of the seat backwards or forwards. After positioning, push the seat on the tubes until you hear a locking click to indicate the 4 interlocking clamps have grafted the tubes. If there are securing clamps, you have to close them tightly on the tube after positioned.



Verify the correct mounting of the seat base by checking the impossibility of movement when:

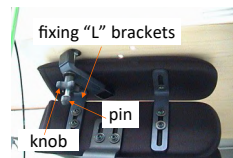
- it is moved back and forth along the seat tubes of the wheelchair
- it is pulled upward.

17) Tray (where provided)

Any shape of tray can be fixed to the armrests or arm supports by detachable or lateral flip mechanism. It is secured as follows:

(option 1) Detachable mechanism (pic. 22)

- verify that the fixing L brackets firmly grip the arm supports/armrests. In a contrary case, please remove the pin and move it a most suitable exagonal shaped hole onto the lateral edges of the tray.
- strongly tighten the locking knob
- check the tray is stable.



pic. 22: Detachable mechanism

(option 2) Lateral Flip mechanism (pic. 23)

The mounting can be done as follows: (the pic. 23 shows the hardware only):

- mount the guide tube with its clamping knob under the arm support
- insert the rod of the hardware in the guide tube
- tighten the knob firmly
- tighten and fix the round head screws
- check the tray is stable.



pic. 23: Lateral flip mechanism



Verify the correct mounting of the tray by checking it doesn't move when pulled in all directions. Verify its stability.

18) Canopy (pic. 24)

Installation

- Tighten the collars at the top of the backrest tubes using the screws provided
- Connect the fixing bracket with the steel rod through the holes provided
- Insert the locking lever in the appropriate seat as in the figure. Adjust the width of the canopy by holding the two hooks and moving outward or inward, according to the needs
- Insert the hooks of the canopy on the fixing bracket, making sure that the hook is fully locked in its position
- Pull the canopy handle downwards according to the needs leaving the appropriate space for the user's head.



pic. 24: Sunshade canopy



*Do not expose your child to the sun.
The canopy will not protect the user from sun damage.*

Removal

Press the hook tabs and lift the canopy up.

19) Footmuff (pic. 25)

Installation

The footmuff can be easily installed without tools by proceeding with the following steps.

- Position the footmuff (remove wrinkles) to fit the seating system and provide optimal comfort.
- Insert the footmuff in the lower part of the seating system
- Attach the hook-and-loop fasteners located along the ends of the footmuff to the frame, according to the needs.

Removal

Remove the hook-and-loop fasteners located along the ends of the footmuff from the frame and remove the footmuff.



Do not smoke and/or come into contact with heat sources, this may cause product flammability.



pic. 25: Footmuff

20) Basket (pic. 26)

Installation

- Place the basket in the lower part of the frame
- Attach the supplied pieces of hook-and-loop female sides to the desired position on the underside of the frame
- Attach the hook-and-loop fasteners located along the ends of the basket to the frame, overlying them to the others previously attached.

Removal

Remove the hook-and-loop fasteners located along the ends of the basket from the frame and remove the basket.



Do not smoke and/or come into contact with heat sources, this may cause product flammability.



pic. 26: Basket

21) Rain cover (pic. 27)

Installation

- Unbox the rain cover
- Position the rain cover (remove wrinkles) to provide optimal comfort.

Removal:

- Pull off rain cover from its ends, so remove it.



Do not smoke and/or come into contact with heat sources, this may cause product flammability.



pic. 27: Rain cover

1.4 How to use it

The frame combined with the positioning system, after the Professional User has performed the commissioning, is ready to be used. Daily operations such as the transfer from and to the system, must normally be performed by parents or caregiver. Following there are all modes of use. Before to start any operation the caregiver needs to be instructed by the professional user. It will require some degree of training and practice to master all operations in a safe manner. It is good to develop one's own methods for safe use, adapted to the needs.



During daily use it may happen that components and/or accessories become loosen, affecting adjustments, this is why it is recommended to schedule a follow-up to monitor and check the posture. Never make any adjustments or changes without the intervention of the Professional User.

A) Use of the Frame Components

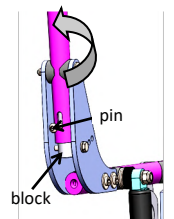
- **Backrest Tubes: installation/removal** (pic. 28)

Installation

- Pull the backrest tubes by the push handle in vertical position until you hear a click indicating the engagement of the lock pin.
- Verify the correct position of the backrest tubes by checking they are stable and do not rotate.

Removal

Lift the pin of the backrest folding system placed on the lower end of each backrest tube. This operation will make the tubes free to be folded.



pic. 28: Backrest tube

- Unfolding the Frame for Positioning System (folding model)

Please, follow the instruction reported on page 5 point 1.

- Legrest Tubes: installation/removal (pic. 29)

ADULT size

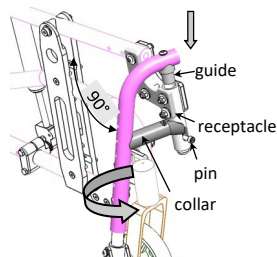
*** Swing-away version**

• Installation

- Bring the footrest hanger perpendicularly to the seat tube.
- Insert the guide in the appropriate receptacle in the superior part of the tube.
- Rotate the footrest hanger inward until the collar locks with the receptacle pin indicating it has been gripped.
- Verify the correct positioning by checking the impossibility of rotation of the hanger.

• Removal

- Push the button of the receptacle; the pin rises and makes the collar free to rotate.
- Rotate the tube outward for an angle greater than 90° so that the collar of the pin is totally disengaged.
- Lift the tube until the guide of the superior part of the tube comes completely out from the receptacle.



pic. 29: Legrest tube installation/removal

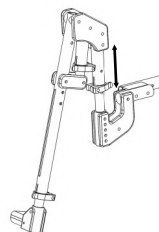
*** Vertical elevating and telescopic version (pic. 30)**

• Installation

- Hold the clamping collar opened.
- Place the knee angle on the rod, taking care to ensure that the screw fits into its housing.
- Close the clamping collar.

• Removal

- Open up the lever and take out the knee angle.



pic. 30: Legrest tube installation/removal

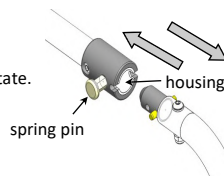
PAEDIATRIC Size (pic. 31)

Installation

- Insert the edge of the legrest tube into the seat tube
- Push the tube until the lockin pin stops in its relevant housing
- Verify the correct assembling by checking the Legrest tube is in place and doesn't move or rotate.

Removal

- Pull the spring loaded locking pin outward
- Remove the Legrest tube.



pic. 31: Engagement of th Paediatric size

- Anti Tip System: installation/removal

Please, follow the instruction reported on page 6 point 6

- Parking brakes

The frame is provided with two parking brakes. To activate the brake, press the lever downward until you hear a blocking noise indicating the engagement of the brake; check that the wheel doesn't move. To unlock the brake, pull the lever in its original position. The brakes are designed to be used as parking brake and do not have to be used while the frame is running. For the correct parking of the wheel, check that the distance between the brake peg and the wheel tire is equal to 6mm. In a contrary case please refer to the professional user for its adjustment. If the wheel is equipped with a drum brake there will be two lever located on the backrest tubes. Once the levers are activated, the wheels will be blocked without possibility of movement; if the levers are released the wheels will be free to move. These brakes can be used to stop the system while it is running.



When the frame is running and the drum brake has to be activated, it is necessary to operate both levers at the same time. The adjustment of the parking brake and of the activating drum brake levers must be performed by the professional user.

- Tyres

Check that the pneumatic wheels are inflated as the value reported on the side edge of the tire. Improper pressure can influence the performance of the Frame: low values can affect the manoeuvrability and action of the brake; high values can cause the tyre to burst. The replacement of the inner tube and/or tyre is like any bicycle wheel. Also check the tire profile: excessive wear can reduce the action of the parking brake.

- Pelvic Belt

To know more about its use, please refer to the relevant instruction manual.



Before using the system, make sure that the pelvic belt is fastened. Check the pelvic belt is fitted correctly and is suitable for the function for which it has been chosen. We do not recommend attaching the pelvic belt to the seat and wheelchair. It is not a safety belt and is not intended to be used as such.

- Kit ABS Lateral (pic. 32) (where provided)

Installation

- Pull the spring loaded pin
- Insert the bracket in the relevant receptacle and make it slide until it stops
- Release the spring loaded pin that blocks the bracket.

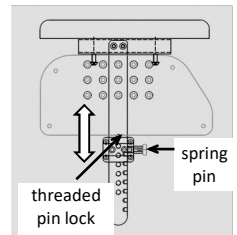
Removal

Pull the spring pin that blocks the bracket and detach the ABS laterals kit.



Verify the kit ABS lateral is blocked in a proper way by checking:

- 1) the correct insertion of the spring pin
- 2) the impossibility of detachment of the Kit ABS lateral.



pic. 32: Kit ABS lateral

- Wooden Tray (where provided)

Please follow the instruction reported on page 17 Point 17.

B) End-user transfer from/to the System

Before performing these operations, it is important to discuss with the end user and about the most natural and regular operations that needs to be done. This will help to make it easier for the user and it will reduce possible dangers.

Transfer from the System

- ✓ Ensure the brakes are on, and the frame is locked from movements
- ✓ Ensure the anti-tip device are correctly positioned
- ✓ Put the seat into a horizontal position by operating the tilting lever
- ✓ Loosen any fixing harness
- ✓ Disengage any thoracic supports and hip guides
- ✓ Disengage the legrest by tilting the legrest tube to the side to reduce the risk of trapping feet during transfer.

Now the user is ready to be transferred. Please pay particular attention to this operation.

Transfer to the System

- ✓ Engage the brakes and make sure the frame is locked
- ✓ Ensure the anti-tip device are correctly positioned
- ✓ Put the seat into a horizontal position by operating the tilting lever
- ✓ Lift and transfer the user to the system by paying particular attention to this operation
- ✓ Engage any thoracic supports and hip guides
- ✓ Position and adjust the legrests
- ✓ Fasten any fixing components
- ✓ Make sure that the user is in his normal seating position.



While the positioning operation is ongoing, ensure that no part of the body is trapped.

C) Tilting the System

The tilting of the System is performed by activating the gas springs which are controlled by the lever located on the push handles of the backrest or with pedal. Adjust the system according to the instructions of the professional user. Tilting must be continuous and, when the lever/pedal is released, the springs will lock the seat in the position reached. The procedure is described below:

- 1) Apply the brakes and ensure the frame cannot move

- 2) Grip the push handles using both hands
- 3) Press the lever, push the handles down; tilt the frame gently and with slow movements
- 4) Release the lever when the desired angle of tilt is reached. In this way the seat will stay in such position.



During the adjustments always ensure the anti-tip system is correctly activated and that the user is well placed in the seat using the pelvic belt. Also make sure that the forearms are positioned on the relative upper limb supports in order to avoid the risk of entrapment.

1.5 Transportability

When traveling in a vehicle is strongly recommended to transfer the user from the wheelchair to the vehicle seat (when possible) and use the vehicle's seat belts, storing the wheelchair in the trunk.

The vehicle seat provides the highest level of safety, as it is mounted to the chassis of the vehicle and is designed for that purpose.

1.5.1 Transport of the System without occupant

For an easy transportation of the system, it is necessary to proceed with the removal of the Positioning Systems from the Frame by carefully following the steps below:



Pay particular attention to the following operations; do not lift the backrest by the thoracic supports and the seat by the armrests: they can become loose and change the configuration of the System. Lift only by the components that cannot be detached. Be careful when folding the System as to not trap any moving part. Finally, upon reassembly, check that all configuration and settings have not been altered. If changes are noted, please contact the Professional User.

- Disassemble the Positioning System from the Frame and make it compact for transportation in a vehicle

In order to transport the system in a vehicle, it is necessary to remove the Positioning System from the Wheelchair Base:

- 1) Apply the brakes ensuring the frame cannot move
- 2) Remove the seat: if there are 2 snaplock clamps, loosen and pull the seat with the wooden base upwards until it clicks, indicating that the seat clamps are detached from their relative tubes
- 3) Remove the backrest: follow the instruction reported in the relevant Instruction Manual
- 4) Remove the Kit ABS Lateral
- 5) Folding down the backrest tubes; follow the instruction reported on page 18
- 6) Remove the posterior wheels: release the parking brake by pressing the quick-release axle button and pull out the axle with the wheel
- 7) Remove the legrest tubes: follow the instruction reported on page 19
- 8) Disengage the anti tip system: follow the instruction reported on page 6
- 9) Fold the foldable Frame for Positioning System (where provided); pull the string placed on the cross brace upwards; bring the two frame tubes of the base closer until they stop.

Now the seat, backrest and frame can be placed in a vehicle.

- Subsequent start-up of the Frame and recombination of the Positioning System with the Frame

At the end of the trip, bring out the frame, the seat and the backrest from the vehicle and proceed with the following operations:

- 1) Unfold the Frame for Positioning System (where provided): follow the instruction reported on page 5
- 2) Assemble the posterior wheels: follow the instruction reported on page 5
- 3) Assemble the backrest tubes: follow the instruction reported on page 19
- 4) Assemble the legrest tubes: follow the instruction reported on page 19
- 5) Apply the parking brake and make sure the frame doesn't move
- 6) Fix the wooden seat base onto the frame: lay the seat base down on the tubes. Pay attention to the snaplock clamps: for a correct installation they have to get in contact with the appropriate collars on the tubes, one in front and one behind. In this way the wooden seat base will not move.
- 7) Fix the seat; please, follow the instruction reported in the relevant instruction manual
- 8) Assemble the Kit ABS Lateral
- 9) Fix the backrest: follow the instruction reported in the relevant instruction manual.



After having performed these operations make sure that the Frame combined with the Positioning System is stable, easy to move and that all components work in harmony. If you hear noise, vibrations or if there are any changes to the normal conditions of use, please contact the Professional User; He will check the safety conditions, the suitability for use and the effectiveness of the Device.

1.5.2 Transport of the System with occupant (when equipped with car transport kit)

Please note that in cases where it is not possible to transfer the user to the vehicle seat the wheelchair is designed in accordance with the requirements of ISO 7176-19:2008 and can be used as a seat for transport in a motor vehicle by complying with the following instructions:



The risk of serious injury or death increases dangerously if the following recommendations are ignored. In the event of an accident or crash, please, send the wheelchair and posture system to a Pro Medicare dealer in order to check its integrity for subsequent reuse.

1. Ensure that the vehicle has the proper equipment for transporting a seated passenger in a wheelchair and make sure that the vehicle access arrangements are suitable for the type of wheelchair. The vehicle floor must have the strength to support the total weight of the user, wheelchair and accessories.
2. Sufficient space must be available around the wheelchair to allow easy access to attach, tighten and release the wheelchair anchor straps and user restraint straps.
3. The occupied wheelchair must be facing forward (pic. 33) and secured with the wheelchair anchor strap and user restraint straps (WTORS "Wheelchair Tie-down and Occupant Restraint System" that meet the requirements of ISO 10542 or SAEJ2249) in accordance with the WTORS manufacturer's instructions. Use of the wheelchair in other positions within a vehicle has not been tested. Therefore, never transport the wheelchair facing sideways (pic. 34).

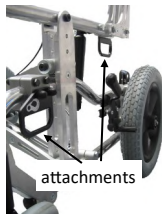


pic. 33: Forward-facing wheelchair



pic. 34: Sideways-facing wheelchair

4. The wheelchair should be secured with a 4-point restraint system in accordance with ISO 10542 with non-adjustable front straps and adjustable rear straps usually equipped with Karabiner clips/S-hooks and fasteners with buckle and tab. Such systems usually include 4 separate straps that are each to be attached to a corner of the wheelchair in the appropriate attachments (pic. 35). The presence of a label indicates the correct position for attachment (pic. 36).

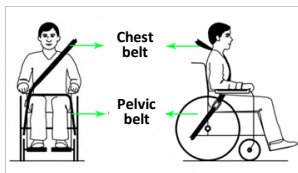


pic. 35: left front and rear attachment



pic. 36: label

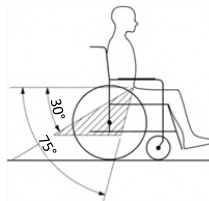
5. The anchored restraint system must be attached to the main frame of the wheelchair where indicated by the manufacturer. The system should never be attached to wheelchair components or accessories, e.g., to wheel spokes, brakes, or footrests.
6. Make the anchor straps so that the angle is as close to a 45° angle as possible and tighten them securely following the manufacturer's instructions.
7. Do not make changes or replacements to the attachment points or to the structure, frame, or components of the wheelchair without consulting the manufacturer.
8. Use both the pelvic belt and the thoracic belt to secure the user and minimize the user's movement during impact, to reduce the impact with parts of the vehicle and the resulting serious risk of injury to the user and other occupants of the vehicle (pic. 37 on page 23).
The restraint belts should not wrap around wheelchair components, such as armrests or wheels, because they would then not adhere to the body (pic. 38 on page 23).
The chest belt should be attached to the vehicle pillar and should not go over the neck; the pelvic belt should be placed immediately above the pelvic bones.
Vehicle restraint belts should be positioned on the user so that the pelvic belt is at an angle between 30° and 75° to the horizontal plane. It is preferable for the belt to have a pronounced angle, but not more than 75° (pic. 39 on page 23).



pic. 37

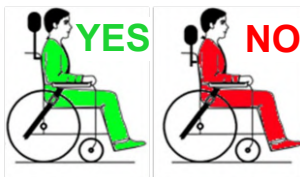


pic. 38



pic. 39

9. Install a suitable headrest for transport and always position it properly during transport (pic. 40)



pic. 40

10. Do not use user postural supports (pelvic straps, pelvic belts) as restraints in a moving vehicle that are not labeled according to the requirements specified in ISO 7176- 19:2008 standard.
11. Pay close attention when positioning anchor straps so that their buckle release button cannot come in contact with any other component of the wheelchair during a crash.
12. To reduce the potential risk to vehicle occupants, remove any moving parts of the positioning system and store them in a safe place (e.g., tray)
13. When transporting the occupied wheelchair, if there is an elevating footrest, it should not be used in an elevated position.
14. If the backrest is reclined bring it to vertical position.
15. If the seat is "tilting" type, bring it to its minimum inclination.
16. The brake must be activated.

1.6 Recommendations for Use

In order to guarantee safe use and a long lasting performance of the Frame for Positioning System, please find below advices for the user:

- ✓ Carefully follow the instructions reported in this manual
- ✓ Follow the recommendations provided by the Professional User
- ✓ Keep the Device away from heat sources
- ✓ Avoid using armrests as a support base for the user
- ✓ The brake is designed for the parking and not for slowing or stopping the wheelchair while it is running
- ✓ Carry out thorough cleaning and pay close attention to the standard maintenance.

2. GENERAL WARNINGS

All announcements reported in this section describe the conditions and situations that may cause danger to the user or to third parties. Please read carefully before using and putting in service the System. To ensure the correct use of the Device, some operations, such as the first commissioning and adjustments, must only be performed by authorized people - the Professional User - Some daily operations can obviously be performed by the End User (or lay person). Therefore, there will be specific warnings for those concerned. In particular, the term Professional User describes the suitably qualified person (authorised dealer, orthopaedic technician, occupational therapist, healthcare professional, etc.), while, the term End User describes the person who is intended to use the Device (caregivers, family members, etc.).

2.1 Warnings for the Professional User

For further information, please contact the Technical Sales Department at the number **+39 0831 777840**.

- Max. Load: See Annex A "Technical Features"

- **Preliminary Operations for correct Commissioning:** (to be performed in accordance with the instructions provided in sect. 1.2)
 - After having performed these operations make sure that the Frame combined with the Positioning System is stable, easy to move and that all components work in harmony
 - Check for noise, vibration, or changes to the normal conditions of use to ensure safety conditions and the suitability for use.
- **Adjustments:** (to be performed in accordance with the instructions provided in section 1.3)
 - These operations must be performed by authorized people
 - During these adjustments, the anti-tip castors must be positioned to reduce the risk of the System tipping
 - After having performed these adjustments, be aware of any noise, vibrations or any changes to the normal conditions of use
 - Unauthorized modifications or the use of parts not supplied or approved by the manufacturer may affect the safe and operational integrity of the system and be cause of danger.

2.2 Warnings for the End User

Before using the Device ensure the Professional User explains the procedures for correct commissioning and standard maintenance. For further information, please contact the Professional User.

- **Maximum Load:** See Annex A "Technical Features"

- Environmental Conditions

- a. The Frame for Positioning System is designed for use on hard surfaces such as asphalt and paving, so:
 - Do not take the wheelchair onto sand or rough terrain. This can cause damage to the wheels, axles and other components of your wheelchair
 - Use extreme caution and care if you use the wheelchair on wet and/or smooth surfaces.
- b. Contact with water and excessive moisture can cause components of the structure to oxidise and start to show signs of decay, so:
 - Do not use the wheelchair in the shower, pool or environment in contact with water. Some components may be damaged and cause malfunctions
 - Avoid extreme humid places (for example: do not bring the wheelchair into a steamy bathroom after a shower)
 - Avoid contact with seawater
 - If the wheelchair comes in contact with water or dirt, please carry out an immediate and thorough clearing.
- c. Severe environmental conditions may affect the features of the materials used, the functionality and performance of the structure, so:
 - Avoid the exposure to extreme temperatures
 - Avoid prolonged exposure to sunlight. Some parts (for example the base, parking brakes, footrests and the positioning system) may overheat.

- Components and Options

Anti Tip System: This device reduces the risk of the wheelchair tipping backwards in normal conditions of use. If locked in position (downwards) the anti-tip tubes must be at a distance between 25-40mm from the floor; if they are placed too high, they do not reduce the risk of the wheelchair tipping and if too low, they can come in contact with surfaces and obstacles during normal use. Always keep the anti-tipping tubes locked in position when the end user is left alone on the base, when the system is running, make sure that the anti-tip tubes have been placed upwards).

Footrests: The footrests are the lower part of the frame and closer to the floor, so avoid to pass over obstacles that may collide with them causing damages. Also:

- Make sure user's feet do not "hang" over or become trapped between the footplates
- Do not place any weight on the footrest to prevent the wheelchair tipping forwards
- Do not stand or lean on the wheelchair footrest; they may detach from the footrest tubes or break
- Make sure, after each adjustment, that the footrest doesn't touch the front wheels.

Posterior Wheels: Every time the wheels are re-inserted please check for the correct assembly. So check:

- the quick-release axle has been activated
- the impossibility of the Wheel to be detached
- that the pressure of the pneumatic tyres is equal to the value indicated on the tyre, as the efficiency of the brakes depends on this.

Armrest: The armrests cannot support the weight of the wheelchair. If used for lifting the chair, they may become damaged and can break.

- Use

- **Maximum Load:** See "Technical Features" reported on the Annex A
- If you hear noise, vibrations or any abnormality after a few days of use, please contact the professional user
- Be careful when moving the wheelchair over uneven ground or obstacles, which if in contact with wheels, they can cause the wheelchair to tilt.

- To reduce the risk of a tipping, do not hang bags, backpacks or any other weight on the system
- Max accepted gradient: 7°
- In the event that an accident causes a loss of performance, do not use the system and consult the professional user
- In the case of a sudden deterioration in performance, do not use the system and consult the professional user
- Never perform any adjustment or change without the intervention of the professional user
- In case of malfunctions resulting from other causes, including poor maintenance of the wheelchair, the professional user should be consulted.
- For the cleaning operations do not use aggressive products which may affect the oxidation and/or cover
- Frequently check all the connections between the positioning system and the frame and verify for a safe and fully functional operations.
- Pay attention to the hands when opening the footrest platforms.

3. NEGATIVE ADVERSE EFFECTS

Generally the use of the system should not cause any adverse effects such as allergies, skin irritations or redness when in contact. Otherwise, please contact both the Doctor and the Professional User immediately. Daily monitor the skin area which is in contact with the Device for evidence of pressure sores caused by incorrect or outdated adjustments; in this case it is suggested to suspend the use and contact the Professional User.

4. RESTRICTIONS OF USE

The Frame for Positioning System has been designed and manufactured to provide the end user the correct positioning support within the normal activities of daily working life, social relations, school or leisure time. Any other use may compromise the safety of the Device.



Mandatory Requirements

- When the wheelchair is in tilted position, the anti-tip system should always be in function
- The anti-tip system should never be removed from the wheelchair
- Do not drill or crush the gas spring
- Do not drive the wheelchair with the seat fully tilted on steep slopes
- When the system is not tilted, make sure the user is not too forward in the seat to avoid compromising the stability of the wheelchair
- When the user is on board, avoid lifting the wheelchair by the legrests or any posture accessories. If it is necessary, lift the wheelchair by the sides of the base structure, making sure the seat assembly doesn't move during this operation
- Get help from additional people when you have to lift the wheelchair over obstacles or down stairs
- All replacement parts or adjustments not authorized by the manufacturer are strictly forbidden
- For safety, never leave the user alone in the wheelchair, especially in the case of children
- If a stair lift platform is to be used, please contact the Company
- Apply the brakes whenever wheelchair-user is stationary
- Please, pay particular attention when moving on rough or uneven terrain which can damage the system
- It is recommended to never use any type of positioning harness/belt as a safety belt
- It is not recommended the use of the System for users who need shock absorbing/dynamic systems
- Smoking and/or open flames are prohibited
- The system is not intended to be used on users with injured skin or body surfaces (sores, etc.); therefore, its use is prohibited in such circumstances.

5. STANDARD MAINTENANCE

In order to guarantee a good functioning and long lasting performances in safe conditions it is necessary to check regularly and make periodically maintenance. This operation must be performed by the end user. The regular maintenance consists of two parts: cleaning and mechanical parts checking.

- Cleaning -

The metal and plastic parts can be cleaned with a damp cloth with cold water without addition of detergent, taking care to go over everything with a dry cloth. Mechanisms such as the backrest reclining plate, tilting mechanism, parking brake and anti-tip wheels, should always be checked to remove any dust or dirt that may affect performances. We recommend these operations at least once a month.

- Mechanical Parts Checking -

The following operations have to be performed:

- Daily check the functionality of the brakes
- Weekly check the tyre pressure. Please refer to a qualified professional for inner tube replacement;
- Monthly check for tyres wear
- Monthly monitoring of parking brakes efficiency and the initial adjustments performed by the clinical professional or authorised dealer; verify that the distance between the tyre surface and the brake pin is 6mm and the operating force does not exceed 60N;
- Monthly inspection the drum brake cable and adjustments
- Monthly inspection the tension of the cable for the proper operation of the gas spring
- Monthly check the screws and their tightening mechanism
- Quarterly oiling the quick-release pin of the folding back canes, the hubs and axles of the wheels, the brake pins, the screw of the footrest hangers
- Check the adjustments: it is strictly recommended to respect the program of the checks and monitoring scheduled with the professional user

6. ADAPTATIONS WITH STRUCTURAL CHANGES AND/OR SPECIAL MAINTENANCE

Special maintenance should be performed when one or more structural components deteriorate in such way to compromise the performance and safety of users. In this case do not use the Device and immediately contact the Professional User who shall promptly inform the manufacturer about the nature of the malfunction and/or the failures found in order to proceed with the necessary interventions.

The instructions below must be followed at all times:

- Tyre wear: the tyre can be replaced by qualified professional using one with the same dimensions and features of the original. The professional user should then provide for the adjustment of the parking brakes and their efficiency.
- Components failure such as wheels, forks, brakes, anti-tip castors, pushing handles and screws: they must be replaced with original parts provided by the manufacturer, restoring the original safety conditions
- Components Breakages or tears such as plates, tubes, linkage components: they must be replaced with original items provided by the manufacturer
- For all structural components it is strictly forbidden to perform any repair and repair by welding, bolted or riveted joints
- We recommend a gradual adaptation of the system to any user's needs.

The non observance of the above clauses will automatically void the CE mark.

For special maintenance, the End User must refer to the Professional User who has to send the appropriate form "*Annex 1 - Warranty Replacement, Adaptations with structural changes and/or special maintenance*" to the manufacturer within 24 hours of the request for intervention.

7. PERFORMANCE AND DURABILITY

Pro Medicare S.r.l. ensures that its own production of Frames for Positioning Systems and/or accessories have been designed and produced in compliance with the safety regulations as required by the relevant Regulation (EU) 2017/745.

The benefits provided by the above mentioned medical devices, either individually or in combination, are therefore suitable and respond to the project's purpose, which is the mobility of users with severe disabilities, considering a more effective rehabilitation plan based on correct posture and stability.

The realistic life span of the Adacta Frame for Positioning System Range is 5 years, while the realistic life span of Versa Positioning Systems Range is approximately 3 years.

These values are purely indicative because, even if the duration expected in the design phase is much greater, it is significantly determined by the way the device is used (which may be how it has been used and if it has been used continuously compared to what was intended in the design phase), by the correct use and careful maintenance.

It is also reasonable to consider a slight reduction in performance over time due exclusively to:

- shocks and accidental events
- natural wear of the components.

Both performance and relative life span expectancy are however dependent by the periodic verification of the suitability, combination safety and the right System adjustments and have to be exclusively performed by the Professional User; regular reassessment by the professional user should therefore be provided in order to check the suitability, safe and integrity of the system. If the Professional User deems it necessary, he can make adjustments to provide the right support and maintenance.

The reconditioning of the device is prohibited if not expressly authorized by the manufacturer.

8. WARRANTY

Pro Medicare S.r.l. warrants the devices functionality for a maximum period of 24 months, covering all manufacturing defects from the first commissioning and 12 months on components and covers replaced under special maintenance starting from the date of commissioning after refurbishment and 12 months for wear parts.

The warranty is valid if the device is used as indicated within this instruction manual.

The warranty is voided in the following cases:

- improper use and/or in case of force majeure
- improper and/or inappropriate use for users affected by high tone and/or movement disorders
- a failure arising from an unauthorized tampering or faulty maintenance by third party that compromises the correct functionality and safety of the products
- any modification made without the manufacturer's authorization
- accidental damages and wear of the essential components
- structural changes of the end user
- failure or damages during the transportation: the Professional User is pleased to refer to the general sales conditions
- stolen or loss.

For warranty replacement of components, the End User must refer to the Professional User who has to send the appropriate form "*Annex 1 - Warranty Replacement, Adaptations with structural changes and/or special maintenance*" to the manufacturer within 24 hours of the request of intervention. It is also essential for the manufacturer to receive a completed *Warranty Registration Form*.

9. POST-MARKET SURVEILLANCE AND POSSIBLE INCIDENTS

Pro Medicare S.r.l. ensures that their medical devices have been manufactured within the strict compliance, criteria and requirements established by the relevant applicable standards, guarantee functioning under the safety conditions prescribed by Regulation (EU) 2017/745.

The post-market surveillance system is set up and implemented in accordance with the quality management system adopted by Pro Medicare S.r.l. and is aimed to actively and systematically collect, record and analyse relevant data on the quality, performance and safety of its devices during their whole life, to establish the necessary conclusions and to determine, implement and monitor any preventive and corrective actions (art. 83 MDR).

These activities are also ensured through accurate market surveillance of the medical devices already present on the market, as also included in Art. 84 of the same Regulation (EU) 2017/745.

To ensure Post-Market Surveillance, Pro Medicare S.r.l. shall implement all activities together with Professionals and Stakeholders to establish and keep updated a systematic procedure which is useful to collect and promptly analyze the experience gained on devices that have been placed on market, in order to identify any need for improvement or modification.

This surveillance activity also includes any incidents or serious incidents defined by the MDR as:

- "incident": means any malfunction or deterioration in the characteristics or performance of a device made available on the market, including use-error due to ergonomic features, as well as any inadequacy in the information supplied by the manufacturer and any undesirable side-effect (art. 2(64) MDR)
- "serious incident": means any incident that directly or indirectly led, might have led or might lead to any of the following: a) the death of a patient, user or other person; b) the temporary or permanent serious deterioration of a patients, user's or other person's state of health; c) a serious public health threat (art. 2(65) MDR).

Serious incidents must be reported to the manufacturer and, through EUDAMED, to the competent authority.

Non-serious incidents, on the other hand, do not have to be reported to the competent authority; they must, however, be documented and taken into account in the manufacturer's quality management system and reported in accordance with the requirements of Art. 88 MDR.

It follows, therefore, that upon the occurrence of both serious incidents and possible non-serious incidents to end users and their companions or to professional users in connection with the use of the device **it is mandatory to send to Pro Medicare** a copy of a fully completed "*Annex 2 - Reporting of after-sale incidents*".

Pro Medicare S.r.l., as soon as it receives the aforementioned form, will provide the appropriate communications to the professional/end user, including the possible authorization to repair the damaged device or its replacement, also providing for the adoption of measures within its competence, appropriate to the nature and gravity of the incident detected.

In cases of particular urgency **it is mandatory** to contact the manufacturer at the following number **+39 0831 777840** sending to sales@promedicare.it the fully completed *Annex 2* as soon as possible.

10. DISPOSAL/RECYCLING

Please, follow the local disposal and recycling regulations.

Following there is the description of all materials used (It is recommended to proceed with a separation of the different components of the Positioning System accessories):

- **Aluminium:** various type of brackets, tubes, plates, forks, footrest, 500mm and 600mm posterior wheels
- **Steel:** screws, threaded inserts, quick-releases
- **Wood:** seat bases, calf support bases, support bases, hip guide bases, trays
- **Plastic:** internal thoracic support bases, mounting components of the base on the frame, handgrips, castors, 300mm and 400mm posterior wheels, footplate, fixing elements of harnesses, seat/back structural kit, various type of padding, packaging
- **Synthetic fabric covers** (polyester, elastane, etc.) and padding belonging to the polyethylene or polyurethane foam family
- **Paper:** cartoon or wrapping paper.

11. LABELING

The label is placed on the lower side of the frame and it is also stuck on the second page of this manual.

Product data are indicated on the label. In case of replacing parts orders and/or reports, the serial number of the product is duly requested. A facsimile of the label is shown below:





MD Medical Device


SN Serial Number


REF Catalog Number

CE CE Mark


 Manufacturer


 Manufacturing date

 Recovery/Recyclable

 Handle with care

UDI Unique Device Identifier

 Consult Instruction for Use

 Keep dry

Annex A - "Technical Features"

This annex describes the wheelchair base, its technical and functional features. It is an integral part of the instruction manual. For further information please contact our Technical Sales Department at the number **+39 0831 777840**. The bases of this range are made of high-strength aluminium used in the aeronautical industry, and allow significant adjustability and adaptability which ensure a seamless modularity and interchange of components to continually evolve with the users changes. This makes it always adjustable to the user's needs by providing the possibility to periodically change the system, this is a necessary operation especially for developmental disabilities.

The Frame for Positioning System enables the continuous tilt in space between +2° and +35° for paediatric sizes and +4° and +30° for adult sizes which is always and easily adjustable by operating the two gas spring lever located on the push handles or with pedal. By means of an aluminium plate between the seat rails and the backrest tubes it is possible to recline it in a fixed position of 3°, 9°, 15°, 22°.

Furthermore, due to a particular type of fixing plates it is possible to:

- seat depth adjustment (for a total of 80mm)
- sliding of the seat with respect to the sub-frame
- sliding of the posterior wheel plates
- frame height adjustable: 430/490mm (with 300mm and 500mm posterior wheels); 450mm (with 400mm posterior wheels); 470mm (with 600mm posterior wheels)

The frame, which can be rigid or folding, has the following features:

- folding down backrest tubes
- knee angle: paediatric sizes -> 90°, 75° detachable, elevating; adult sizes -> 90°, 75°, swing away and detachable, Vertical Elevating and Telescopic
- quick-release posterior wheels: 300mm (poly or pneumatic, with parking brake lever or with drum brake or with drum brake and parking brake lever); 400mm (poly, with parking brake lever or with drum brake or with drum brake and parking brake lever); 500mm (poly or pneumatic with or without handrims with parking brake lever; pneumatic with drum brake or with drum brake and parking brake lever); 600mm (pneumatic with handrims and parking brake lever) not available on size US
- castors: 150mm/175mm poly.

This enable an easy transportation of the device during transfers.

Size		Max Load (kg)	Frame weight* (kg)	Q** (min-max) height from the seat tube to the footrest (mm)	Maximum overall width (mm)					Pivot Width (mm)	Seat Tube Height*** (mm)
					300 wheels strd.	300 wheels with Drum Brake	400/500 wheels strd.	400/500 wheels with Drum Brake	600 wheels		
US	Rigid	50	14.1	130-230	480	490	500	530	/	690	
	Foldable	50	14.9								
XXS	Rigid	50	14.4	130-230	530	540	550	580	550	690	430 e 490 with 300/500mm posterior wheels and 150/175mm castors
	Foldable	50	15.3								
XS	Rigid	50	14.7	130-260	530	540	550	580	550	720	
	Foldable	50	15.6								
XS0	Rigid	50	15.4	130-260	560	570	580	610	580	750	450 with 400mm posterior wheels and 150/175mm castors
	Foldable	50	15.9								
XS1	Rigid	75	19.2	280-360	560	570	580	610	580	750	
	Foldable	75	19.5								
S	Rigid	75	19.5	280-360	590	600	610	640	610	750	470 with 600mm posterior wheels and 150/175mm castors
	Foldable	75	19.9								
M	Rigid	100	19.8	320-400	590	600	610	640	610	780	
	Foldable	75	20.2								
M1	Rigid	100	19.9	320-400	620	630	640	670	640	780	
	Foldable	75	20.3								
L	Rigid	100	20.1	280-360	650	660	670	700	670	750	
	Foldable	75	20.5								
XL	Rigid	100	20.3	320-400	650	660	670	700	670	780	
	Foldable	75	20.8								

* Frame weight with wheels, knee angle and footrest as per standard configuration

** The value Q, referred to the hanger at 90° can be increased of 5-7 cm. with the use of the hanger at 75°

***The value H is taken outside to outside seat tube at the tilt in space plate

The maximum possible **slope** is 7°

NOTE: The length dimensions, referred to the average values, are subjected to variations due to the displacement of the plates. The values reported are intended for the standard configuration.

Dimensions of the frame with decoupled posture, folded backrest tubes, footrest and posterior wheels detached.

Lenght Dimension of the Frame (mm)			300mm wheels	400mm wheels	500mm wheels	600mm wheels
US	Without Knee Angle	L	700	740	780	/
	75° Hanger	L _{min} /L _{max}	920/990	950/1010	980/1030	
	90° Hanger	L _{min} /L _{max}	880/960	930/990	950/1010	
XXS	Without Knee Angle	L	700	740	780	830
	75° Hanger	L _{min} /L _{max}	920/990	950/1010	980/1030	1010/1090
	90° Hanger	L _{min} /L _{max}	880/960	930/990	950/1010	980/1040
XS	Without Knee Angle	L	730	770	810	840
	75° Hanger	L _{min} /L _{max}	930/1000	960/1030	990/1070	1030/1120
	90° Hanger	L _{min} /L _{max}	910/990	940/1000	970/1020	1010/1070
XS0	Without Knee Angle	L	730	770	810	840
	75° Hanger	L _{min} /L _{max}	930/1000	960/1030	990/1070	1030/1120
	90° Hanger	L _{min} /L _{max}	910/990	940/1000	970/1020	1010/1070
XS1	Without Knee Angle	L	750	790	840	850
	75° Hanger	L _{min} /L _{max}	970/1040	1000/1070	1030/1130	1080/1160
	90° Hanger	L _{min} /L _{max}	930/1000	960/1020	1000/1060	1050/1120
S	Without Knee Angle	L	750	790	840	850
	75° Hanger	L _{min} /L _{max}	970/1040	1000/1070	1030/1130	1080/1160
	90° Hanger	L _{min} /L _{max}	930/1000	960/1020	1000/1060	1050/1120
M	Without Knee Angle	L	780	820	870	880
	75° Hanger	L _{min} /L _{max}	1000/1070	1030/1100	1060/1160	1110/1200
	90° Hanger	L _{min} /L _{max}	960/1030	990/1040	1030/1090	1080/1160
M1	Without Knee Angle	L	780	820	870	880
	75° Hanger	L _{min} /L _{max}	1000/1070	1030/1100	1060/1160	1110/1200
	90° Hanger	L _{min} /L _{max}	960/1030	990/1040	1030/1090	1080/1160
L	Without Knee Angle	L	750	790	840	850
	75° Hanger	L _{min} /L _{max}	970/1040	1000/1070	1030/1130	1080/1160
	90° Hanger	L _{min} /L _{max}	930/1000	960/1020	1000/1060	1050/1120
XL	Without Knee Angle	L	780	820	870	880
	75° Hanger	L _{min} /L _{max}	1000/1070	1030/1100	1060/1160	1110/1200
	90° Hanger	L _{min} /L _{max}	960/1030	990/1040	1030/1090	1080/1160

L = Length of the frame without knee angle

L_{min} = Length of the frame with knee angle and footplate positioned all backwarded

L_{max} = Length of the frame with knee angle and footplate positioned all forwarded

NOTE: The length dimensions, referred to the average values, are subjected to variations due to the displacement of the plates. The values reported are intended for the standard configuration.

Dimension of the Frame with folded backrest tubes(fixed) footrest and posterior wheels detached

Size		Width (mm)	Weight (Kg)	Lenght (mm)	Height (mm)
US	Rigid	300	11.4	660	650
	Foldable	420	12.2		
XXS	Rigid	300	11.7	660	650
	Foldable	480	12.6		
XS	Rigid	300	12	680	660
	Foldable	480	12.9		
XS0	Rigid	300	12.7	680	660
	Foldable	510	13.2		
XS1	Rigid	300	12.9	710	670
	Foldable	510	13.3		
S	Rigid	320	13.1	730	670
	Foldable	540	13.6		
M	Rigid	320	13.5	830	680
	Foldable	540	13.9		
M1	Rigid	320	13.6	830	680
	Foldable	570	14		
L	Rigid	320	13.8	730	670
	Foldable	540	14.2		
XL	Rigid	320	14	830	680
	Foldable	600	14.5		

NOTE: The length dimensions, referred to the average values, are subjected to variations due to the displacement of the plates. The values reported are intended for the standard configuration.