



Duke

User manual | British English

Some of the photographs and/or images in this manual may show a different wheelchair model from the one under discussion.

However, all instructions are applicable, regardless of the model differences.

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1 INTRODUCTION

At Rehateam, constant research into quality and creativity are the cornerstone of our business.

After many years in the industry, we at Rehateam s.r.l. remain genuinely focused on providing total customer satisfaction.

We have become industry leaders by making excellence and service our top priorities.

We have become industry leaders by making excellence and service our top priorities, building all our models from carefully selected materials and providing multiple configurations to enable the utmost personalisation according to specific user needs.

We perform continuous, meticulous quality control and our testing procedures offer the highest possible quality combined with fast, reliable service.

We acknowledge that we owe our success to our customers and all who have believed in us and helped us establish that quality is what makes the difference.

FOR THE DEALER

This manual **MUST** be provided to the occupant of this wheelchair.

BEFORE giving the wheelchair to the occupant, the dealer **MUST** carry out a general check of all its fittings and check its functionality.

After this check, the dealer should complete the **WARRANTY CERTIFICATE** by applying the stamp of the company or represented organisation together with name, signature, and date.

This certificate must be retained by the occupant.

This product is intended for disabled occupants with intact visual, cognitive and reading abilities.

If some or all of these abilities are limited or impaired, the presence of an assistant person with appropriate abilities is always required.

FOR THE USER and/or ASSISTANT

BEFORE using this wheelchair, please **READ** all parts of this manual and keep it for future reference.

Check that the warranty certificate has been fully compiled by the dealer and keep it with care.

NOTE

This document is also available in PDF format for the visually impaired at www.rehateamprogeo.com or by scanning the QR Code here.



2 FLAME RETARDANT PROPERTIES, SYMBOLS

2.1 FLAMMABILITY

This product has been tested in accordance with the standard EN12183. This standard also includes a flammability test.

The fire reaction of upholstered parts complies with classes: M2 and M3.

2.2 SYMBOLS USED



DANGER!

Indicates a potentially hazardous situation, which, if not avoided, can result in death or serious personal injury.



CAUTION!

Indicates a prohibited or inadvisable action.



WARNING!

Indicates a potentially hazardous situation, which, if not avoided, may cause minor personal injuries or property damage.
















IMPORTANT!

This symbol indicates important instructions or special information.

3 PRODUCT LABELS



 Brand logo Progeo	 "UDI" code (Unique Device Identification)
 "MD" mark (Medical Device)	 Year/month of production
 "CE" mark	 Serial number
XXXXXXXXX Product name	 Ambient usage temperature
 Crash test approved The occupied wheelchair is suitable for transport in a vehicle	 Max Mamimum load
 The occupied wheelchair is not suitable for transport in a vehicle	 Max Maximum slope in use
 Read the user's manual	 Manufacturer data

4 INTENDED PURPOSES AND CONDITIONS OF USE

This model is a self-propelled wheelchair, which means that it **can be moved manually** using the hand rims on the rear wheels or pushed by an assistant using the push handles.

If it is pushed using the lower limbs, make sure that the occupant's feet and/or legs do not hit any part of the wheelchair.

It may be used for both rehabilitative and active purposes and is therefore suitable for daily use by both occupants with severe disabilities (with limited movement of the legs, arms or torso) and "active" occupants (capable of carrying out activities independently).

It is used to assure the independent mobility or assisted movement of an occupant with reduced or no use of one or more parts of the body.

Given the ample range of possible accessories and configurations, the wheelchair can be used safely both indoors (flat, gym, school, library, etc.) and outdoors (street, pavement, yard, etc.) with ambient temperatures between -30 and +60 °C.

The wheelchair surfaces that may come into direct contact with the occupant/assistant's skin may exceed a surface temperature of 41° (e.g. exposure to the sun), so be careful before use.

If the occupant is affected by particularly severe disabilities or unable to move autonomously, the help of an assistant is always advisable.

We also discourage use over hilly, particularly soft, sandy or uneven ground, on slopes exceeding the recommended gradient and in acidic environments.



WARNING!

During daily use of the wheelchair, the occupant may come across situations such as rough or irregular terrains (gravel, cobblestones, holes on the ground, etc.) or slippery terrain (wet, sandy, dusty, oily hard surfaces, etc.).

In all such situations and, in general, in all cases where use of the wheelchair may be difficult or risky (for the wheelchair and its occupant), it is always advisable to move carefully and smoothly without sudden acceleration or hard braking.

When the difficulty or risk is high, the help of an assistant is always advisable.

The maximum slope that can be negotiated to prevent the wheelchair from tipping over backwards is 3° (6%).

All footrests require the occupant to wear socks or shoes, so do not rest bare feet on them.

The seat surface is made of cloth or other material, if available for this model, and is not designed to be sat on directly by the occupant; it is therefore necessary to provide a cushion for the occupant to sit on, which must be ordered separately according to the occupant's specific needs.



WARNING!

Crushing, holes and gaps: the wheelchair meets the safety distance requirements. If certain functional needs do not comply with these distances, be careful during use (toe and foot traps).



IMPORTANT!

Certain wheelchair configurations may **exceed 700 mm in width.**

In such cases, under certain circumstances, it may not be possible to use some or all of the available escape routes from a building.

If the wheelchair configuration causes the wheelchair width to exceed 700 mm, it may be difficult or impossible to travel on public transport, lifts and lifters.

Certain wheelchair configurations may **exceed 1200 mm in length.**

Therefore, it may be difficult, if not impossible, to use public transport and/or transport the occupied wheelchair (if provided).

Given its dimensional and structural characteristics, this model is ideal for adolescents and adults. occupants

Maximum load for this model is: 125 kg.

5 PUTTING THE WHEELCHAIR INTO SERVICE AND REGULAR USE

5.1 GENERAL INFORMATION



WARNING!

It is important that all the wheelchair's functional parts are CHECKED ONLY BY QUALIFIED AND AUTHORISED PERSONNEL, both to assess its suitability and to provide the correct instructions for use to occupant and assistant where applicable.

If any part of the wheelchair is found to be defective, the occupant or assistant must consult the dealer to solve the problem.

Non-observance of the indications/instructions in this manual may lead to malfunctions and/or damage to the wheelchair and/or the occupant and/or third parties.

shall not be held liable for any damage to the wheelchair and/or harm to them, occupant and/or third parties caused by or resulting from failure to observe the guidelines/instructions.



CAUTION!

Use of the wheelchair requires some of its parts to be handled.

Instructions for the correct handling of the wheelchair's components are provided in the corresponding sections of this document.

Please follow these instructions to avoid injuries.



CAUTION!

Installing and using electrification, mechanical and/or electrical movement devices (lifters, stair lifts) or any other accessory not provided by Rehateam s. r.l. at the time of delivery may result in stresses not taken into account during product testing, in which case product integrity and complete safety are not guaranteed.

If any additional accessory is installed on the product delivered by Rehateam s. r. l., it must be guaranteed by your dealer and the accessory device manufacturer, and approved by Rehateam s.r.l..

5.2 TYRE PRESSURE

Keep the tyres inflated at the correct pressure to ensure that the wheelchair brakes and rolls properly.

Use your fingers to remove the plastic cap covering the inflation valve on the rear wheel rims.

Use a compressor or pump equipped with a pressure gauge to bring the pressure up to the correct level.

Screw the plastic cap back on.

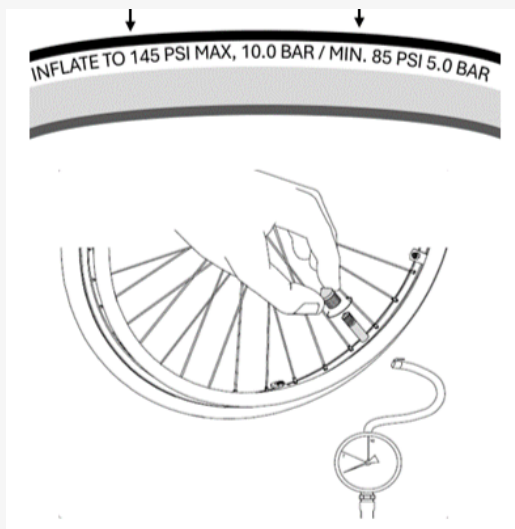


WARNING!

Check for correct tyre pressure on a weekly basis as indicated on the tyre (an intermediate value between min. and max. is recommended).

Proper tyre pressure makes the wheelchair considerably smoother and more controllable to manoeuvre.

Inadequate tyre pressure (especially if lower than prescribed) degrades the effectiveness of the parking brakes (the wheelchair may not remain stationary).





CAUTION!

Do not exceed the pressure indicated on the tyre because you may damage the tyre and the inner tube.

Always respect what indicated on the tyre.



IMPORTANT!

The front castors may also be of the "pneumatic" type; in this case, follow the same instructions.

Solid tyres do not require any inflation.

This type of tyre requires less maintenance and reduces puncture repair or replacement costs.

Compared to tubed or tubular tyres, they are not as smooth during normal use and absorb less vibration when rolling on uneven ground.

5.3 BRAKES



CAUTION!

The parking brakes are a safety device and their efficiency must be checked daily.

The pressure brake acts directly on the tyre by means of a lever, which is why braking efficiency depends on correct tyre inflation pressure.

We recommend that you check your tyre pressure regularly to ensure that it is always correct.

The maximum safe gradient for the parking brakes to work properly is 3° (6%).

The parking brake is a safety device, and you must not use it while the wheelchair is moving as this could cause the wheelchair to overturn with possible injury to the occupant.



IMPORTANT!

To check the effectiveness of the brakes, apply them as described below depending on the type of brake, and, with the person sitting in the wheelchair, try to gently push the wheelchair.

If the rear wheels do not turn or if they turn with great difficulty and still prevent unintentional movement of the wheelchair, the parking brakes are acting as required.

Check that both brakes do not accidentally disengage once applied.

Applying and releasing the parking brake may require more or less force depending on the type of brake chosen.

Occupants with reduced upper limb strength should use the extended lever.



WARNING!

Take care not to pinch/crush your fingers when applying and releasing the brakes, but also in any other situation where your hands come close to the brakes.

5.4 BRAKE TYPES

5.4.1 Curved push-to-lock brake

To engage the brake, push the lever forward until it locks.

To release the brake, pull the lever backward.

The brake automatically returns to its resting position.



5.4.2 Straight push-to-lock brake

To engage the brake, push the lever forward until it locks.

To release the brake, pull the lever backward.

The brake automatically returns to its resting position.

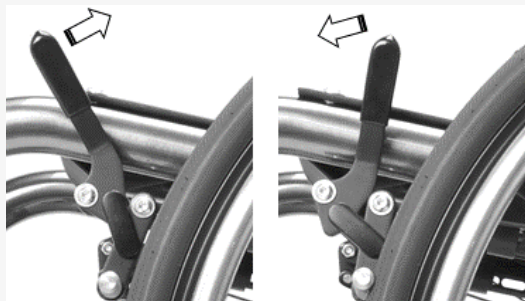


5.4.3 Straight pull-to-lock brake

To engage the brake, pull the lever backward until it locks.

To release the brake, push the lever frontward.

The brake automatically returns to its resting position.



5.4.4 Push- or pull-to-lock brake with extended lever

Push-to-lock brake: to apply the brake, push the lever forward until it clicks.

To release the brake, pull the lever backward.

The brake automatically returns to its resting position.

Pull-to-lock brake: to apply the brake, pull the lever backward until it clicks.

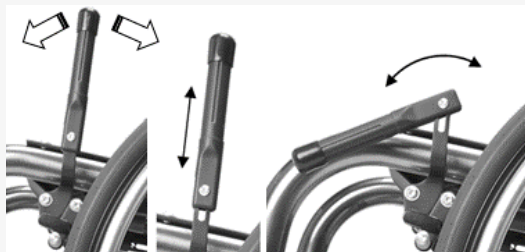
To release the brake, push the lever frontward.

The brake automatically returns to its resting position.

Extended lever: the lever can be folded forward to prevent the extended lever from obstructing the occupant while transferring into or out of the wheelchair.

To do so, pull the lever first up and then push it forward.

To return it to the normal using position, turn the lever up and then push it down.



5.4.5 “Sport” brake

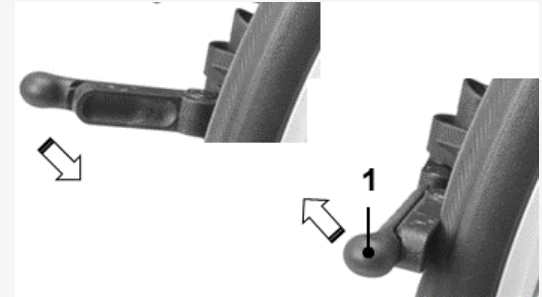
To engage the brake, turn the lever until it locks.

To release the brake, push the knob **(1)** forward.

The brake automatically returns to its resting position.

This type of brake reduces the encumbrance of the wheelchair when you remove the rear wheels.A.

On the other hand, in comparison with traditional brakes, its lever is located a lower position and it is more challenging to operate.



5.5 QUICK-RELEASE REAR WHEELS

The quick release rear wheels reduce the wheelchair's bulk and save space, thus facilitating storage in the car or, if the wheelchair is equipped with the "narrow passage wheels" accessory, to reduce its width and length in order to access narrow spaces.

Check that the quick release pins on the rear wheels are correctly engaged without anyone sitting on the wheelchair.

The parking brakes must be released.

Raise the rear wheel by lifting the wheelchair slightly off the ground and grasping the backrest post handle.

Grasp the rear wheel hub with your hand (without pressing down on the release pin), taking care to avoid inserting your fingers between the spokes.

Push and pull the wheel (as indicated by the arrow) to check that it fits properly: the wheel must not come off.

If the wheel comes off during this check, the axle must be adjusted.

Adjustment should only be carried out by qualified and authorised personnel.



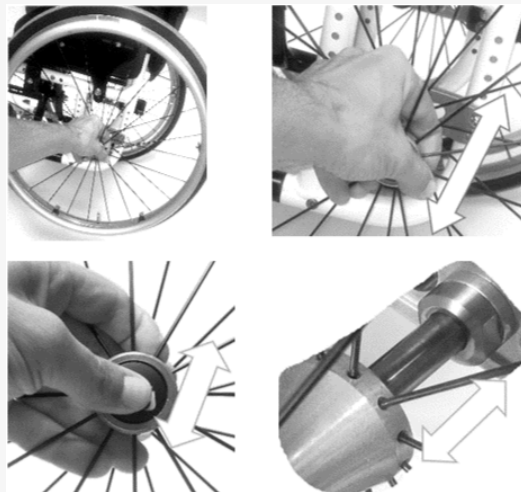
WARNING!

Checking the quick release axles of the rear wheels is one of the procedures that the occupant should perform periodically.

If the quick-release axles are not correctly inserted and/or adjusted, they may become damaged, or the rear wheel could come off, causing the wheelchair to overturn with possibly injury to the occupant.

To remove the wheel, first release the parking brakes.

Lift the wheelchair wheel slightly off the ground, using one hand to grasp the backrest knob to facilitate the operation.



Grasp the wheel by the spokes around the hub, press the release pin button with your thumb and, without releasing, extract the wheel fully.

To fit the wheel, first release the brake.

Slightly lift the wheelchair from the ground on one side by the backrest knob.

With your hand, take hold of the rear wheel's hub and, with your thumb, press the button of the quick release pin, keep it pressed and push the pin fully into its seat.

Release the axle quick release pin button (a click indicates correct engagement).



WARNING!

Always release the brake before removing and inserting the rear wheel. Always check the correct engagement of the quick release axles. The holes for the rear wheel positioning may pinch or crush your fingers. Take care whenever your hands are close to such holes.

5.6 UNFOLDING AND FOLDING THE BACKREST

Only the backrest can be folded in this model.



WARNING!

While folding the backrest down, take care not to crush your fingers between the backrest post and the side guard.

5.6.1 Unfolding

With one hand, grasp the cord **(1)** located at the lower side of the backrest and pull it up to unlock the pin **(2)** from the support **(3)** (this step is not necessary if the backrest does not have a double lock plate).

With your other hand, grasp the backrest post handle or the backrest rigidizer bar.

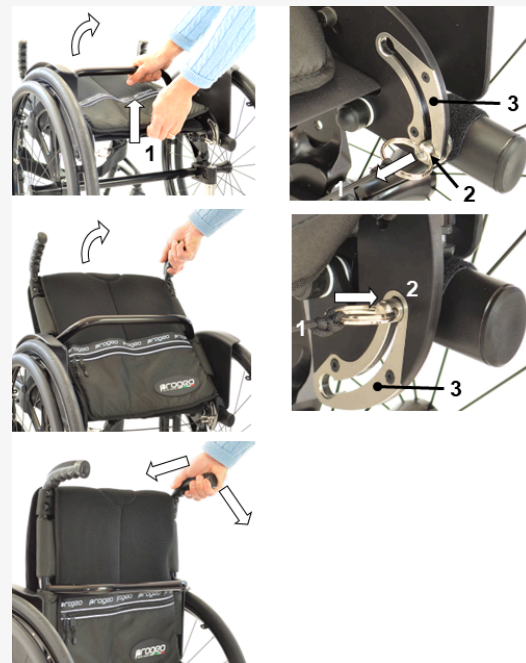
Turn the backrest backward (hold the cord **(1)** taut at the beginning of the movement, then release it) until a click indicates that the pin **(2)** is inserted into the hole in the plate **(3)**.



WARNING!

Before using the wheelchair, always check the backrest is locked in its upright position by moving the backrest post back and forth.

When correctly locked, the backrest post will allow just a little play..



5.6.2 Folding

Grasp the cord **(1)** on the back of the backrest with one hand and pull it upwards to release the pin **(2)** from the support **(3)**.

Grasp the backrest with one hand by its handle or horizontal post.

Turn the backrest toward the seat (hold the cord **(1)** taut upwards at the beginning of the movement) until a click indicates that it is locked securely (locking is not provided if you have requested a backrest without double locking mechanism).

A click will indicate that the pin **(2)** is inserted into the hole in the plate **(3)**.



IMPORTANT!

When the backrest lock is closed, you can lift the wheelchair by grasping its ridizer bar.

With tubular armrests, it may be necessary to rotate them slightly in order to fold down the backrest.



5.7 FOOTREST

5.8 General information



WARNING!

When transferring to and from the wheelchair, never keep your feet on the footrest; excessive weight on the footrest may result in it breaking with harm to the occupant.



WARNING!

Do not use the wheelchair with bare feet to avoid possible abrasions and/or burns to the feet.

Check that the footrest surfaces are in good condition because contact with other surfaces (ground, walls, furniture, etc.) could create potentially dangerous sharp areas.

A range of footrests are available, excluding the flip-up type, so neither the occupant nor the assistant is required to do anything.

- (1) aluminium tube, without adjustable angle;
- (2) aluminium tube with plastic footrest, without adjustable angle;
- (3) carbon fibre, with adjustable angle and height;
- (4) aluminium, with adjustable angle and height;
- (5) aluminium with "U" tubes for short footrests, with adjustable angle and height;
- (6) (6a) aluminium with flip-back and adjustable angle and height.

The flip-back footrest can be useful to facilitate transfers.

To lift the footrest **(6) (6a)**, just place the fingers of one hand on the lower front part and simply rotate it back and upwards.

To return it to the position for use **(6) (6a)**, place the fingers of one hand on the top front part and simply rotate it forward until it rests in position for use.

In the order form, you can choose the footrest position (internal, external or intermediate), depending on the type.



5.9 CALF STRAP

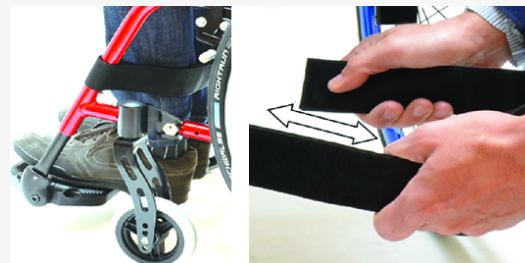
In some cases, depending on the diameter of the front wheel and the width of the wheelchair, the front wheel may come into contact with the heel of the occupant's foot when turning.

To prevent this contact and prevent the wheelchair from tipping over, the wheelchair is equipped with a heel strap that must be adjusted so that the occupant's feet never come into contact with the front wheels.



IMPORTANT!

You can easily adjust the calf strap using the Velcro provided.



5.10 ADJUSTABLE BACKREST UPHOLSTERY

The backrest can be adjusted to the occupant's requirements by tensioning or slackening the two special Velcro straps inside the padding.

To adjust them, lift or remove the padding, tighten, or slacken the Velcro straps as required, and replace the padding.



CAUTION!

The combination of the inclination of the seat with the inclination of the backrest posts and the inclination of a postural backrest with respect to the posts, could result in an angle greater than 25° with respect to the vertical.

In that case, the wheelchair must have a headrest or arrangement to secure it as intended for this model.



IMPORTANT!

If the wheelchair has a postural backrest, follow the instructions for the postural system.

5.11 ARMRESTS

5.11.1 General information

This model can be equipped with armrests.

Armrests are particularly useful accessories for people with reduced hand or arm mobility and for occupants with limited upper body movement who require better stability once seated in the wheelchair.





CAUTION!

Do not use armrests as hand holds to lift the wheelchair as the armrests could come out of their supports, possibly damaging the wheelchair or harming the occupant.

Do not use the armrest for support when transferring to or from the wheelchair.

On the contrary, we recommend removing the armrest on the transfer side to facilitate the manoeuvre.



WARNING!

Armrest pads may contain phthalates that are potentially hazardous to health if ingested.

Avoid scratching the padding and putting any residue on your fingers into your mouth or, worse still, nibbling or sucking on the padding (more likely with children).



WARNING!

Always take care when positioning hands and arms on the armrest to avoid accidents.

5.11.2 Tubular armrests with standard support

You can swing this type of armrest away on the side and remove it to make transfer easier.

Clothing guards are with this type of armrest.

POSITION FOR USE

To check that the armrest is in the correct position for use **(1)**, grasp it with one hand **(2)** and try to move it left and right.

If it is properly secured, the armrest will not turn but will have just a little play.

The armrest is correctly secured when the two flat faces of the support **(3)** locate between the two faces of the support **(4)**.

SWINGING

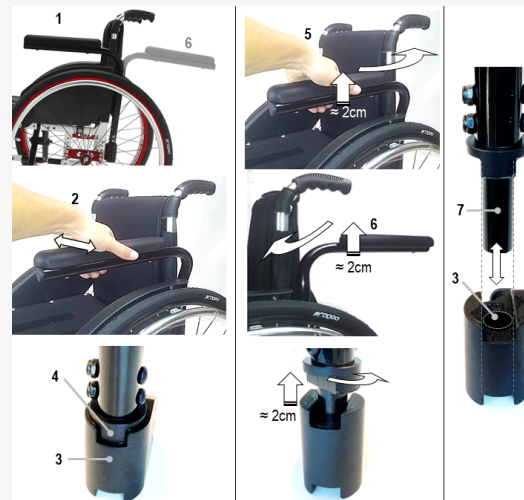
To facilitate transfer into and out of the wheelchair, you can lift the armrest by approximately 2 cm **(5)** and swing it away to the side. If you wish, you can swing the armrest away until it locks in its opposite position **(6)**.

To return the armrest to the operating position, swing it in until it locks (if it was secured in its opposite position, first raise it by approximately 2 cm).

REMOVAL/INSERTION

To remove the armrest, just pull it upward.

To insert the armrest, insert the support pin **(7)** into the hole in the support **(3)**, and turn the armrest until it locks as described above.





WARNING!

This type of armrest can always be vertically extracted from its support.

Always check that the armrests are secured when they are in position for use **(1)** (forward and parallel with the sides of the wheelchair).

In all other positions (except when locked in their rear-facing position), they are free to turn and for this reason, you should always ensure that they are correctly positioned before using the wheelchair.

Failure to follow this instruction may cause the wheelchair or the occupant to overbalance.



IMPORTANT!

The supports are very precise, so the armrest can only be inserted and removed with perfectly vertical movements.

5.11.3 Extractable armrest

This type of armrest is very practical and can be removed completely, making it much easier to move the wheelchair and transport it.

Moreover, the armrests also comprise a straight clothing guard.

POSITION FOR USE

The armrest is in the correct position for use **(1)** when the strip **(2)** is inserted into the support **(3)** and is secured by the screw **(4)** in the cavity **(5)**.

REMOVAL/INSERTION

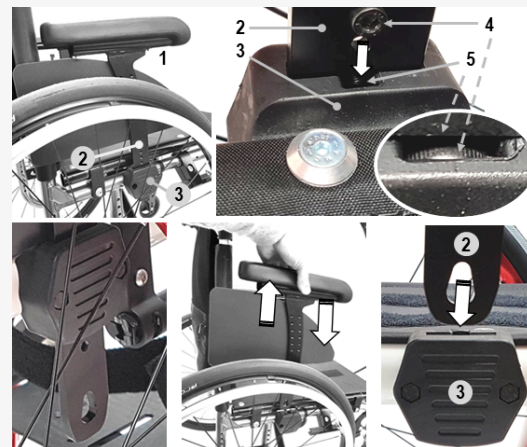
To remove the armrest, just grasp the padding and pull it up.

To fit the armrest, insert the strip **(2)** into the support **(3)** and let it slide down to its correct position as described above.



WARNING!

This type of armrest can always be vertically extracted from its support.



5.12 CLOTHING SIDE GUARD

The lateral clothing guards provided with this model are in carbon fibre. They can be of the mudguard type **(1)** or straight **(2)**.

If the lateral clothing guard is of the mudguard type, these are originally fastened with the edges approximately 5 mm above the tyre **(1)** to prevent the occupant from inserting his/her fingers between the tyre and mudguard.

Removable mudguard or straight clothing guards with the “strip system” **(3)** can be removed in the same way as removable armrests.



WARNING!

Do not lift the wheelchair by grabbing it by the removable lateral clothing guards as these are not locked.

Be careful not to squeeze your fingers when mounting the removable lateral clothing guards.



CAUTION!

Check that the surfaces of the clothing guards are in good condition, as they may be sharp and harm the occupant.



IMPORTANT!

Do not use the clothing guards for support when transferring into or out of the wheelchair.



5.13 PART FASTENING AND WHEELCHAIR LIFETIME

5.13.1 Parts fastening

When delivered to the occupant, the wheelchair is checked by the dealer to ensure it is in perfect condition.

However, daily use of the wheelchair may cause bolts and nuts to loosen.



WARNING!

We recommend checking that all hardware is correctly tightened at least once a month. If necessary, consult an authorised Progeo dealer or technician for maintenance support.

At each maintenance cycle, ensure that all nuts, bolts, and screws are correctly tightened.

Failure to observe this warning could result in harm to the occupant or third parties or damage to the wheelchair, for which Rehateam s.r.l. shall not be held liable.

5.13.2 Wheelchair lifetime

Progeo wheelchairs are used on a daily basis, and they are consequently subject to continuous stresses that inevitably lead to wear and tear of the parts.

With this in mind, Progeo wheelchairs have a lifetime of 5 years provided they receive thorough periodic maintenance.

The lifetime will be considerably extended if the wheelchair is used only indoors or not on daily basis.

6 SAFETY



CAUTION!

Progeo wheelchairs are medical devices and therefore **MUST NOT BE LENT NOR GIVEN TO OTHER USERS**, not even for short periods.

Do not modify the wheelchair without our approval.

Modifying the wheelchair may change its structure, resulting in instability that could damage the wheelchair or harm the occupant.



WARNING!

Rehateam s.r.l. shall not be held liable in the event of failure to comply with the instructions or recommendations set out in this manual, in which case the manufacturer's warranty shall be invalidated immediately.

BURN HAZARD! Wheelchair components may heat up if they are exposed to strong sunlight.



IMPORTANT!

Notify the manufacturer in the event of serious accidents in relation to the device.

Manufacturer: Rehateam s.r.l., Vicolo Negrelli 5, 31038 Castagnole di Paese TV, Italia, tel. 0039 0422 484657, mail: info_it@permobil.com

6.1 PREVENT ACCIDENTS

6.1.1 Movements

Avoid sudden, jerky movements when using the wheelchair as this could cause it to overbalance.

If your path is obstructed by obstacles, avoid sudden movements (such as abrupt braking). There is increased risk of skidding on irregular or damp ground.

Passing over obstacles as steps and ramps should be done carefully (ask an assistant for help).

For greater safety, an assistant should help to push the wheelchair when moving across inclined or potentially dangerous terrain.

6.1.2 Wheelchair speed

Always adjust your speed in relation to the type of terrain and conditions.

As general rule, we advise a constant, regular speed avoiding sudden accelerations or changes in direction.

6.1.3 Using the brakes

The parking brakes have been designed to hold the wheelchair stable when it is stationary.



CAUTION!

In the interest of safety, you should not use the parking brakes while the wheelchair is in motion.



WARNING!

When using the brakes, great care should be taken to avoid injury to the hands or fingers.

6.2 MOVEMENTS: GETTING IN AND OUT OF THE WHEELCHAIR

Wheelchair transfers must always be performed with extreme care and caution, even by experienced occupants, and only after receiving instruction from fully trained specialists. If wheelchair transfers are difficult, an assistant should be lend help. All these actions should in any case be performed taking account of the degree of your disability and your consequent level of autonomy.

The general rules to respect while getting in or out of the wheelchair safely are:

Ensure the wheelchair is parked on a solid, flat, or regular surface.

Do not get in or out of the wheelchair while on hills or uneven ground which could render the wheelchair unstable and cause the occupant to fall and/or the wheelchair to overbalance. The parking brakes should be engaged.

Move your feet off the footrest to get down. Move your feet close to the footrest to go up.

If the wheelchair is equipped with flip-up footrest (single or dual), raise it to facilitate the transfer.

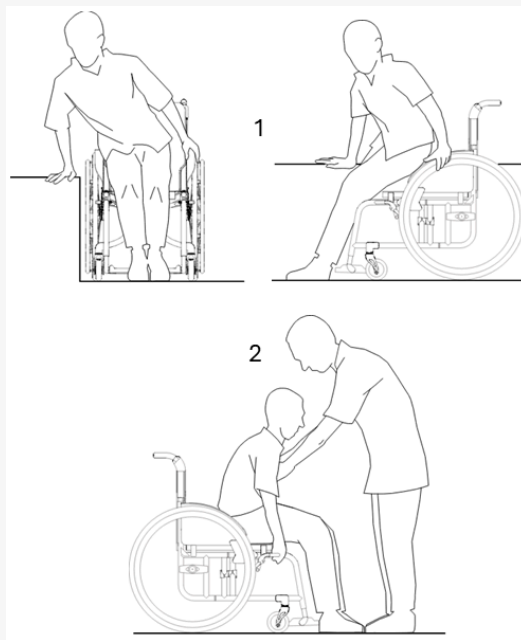
(1) Lean on the wheelchair and, where possible, on a stable object nearby.

Use the force of your arms to raise and move your body.

(2) If you are unable to perform this movement alone, or if the movement is to be performed on an uneven surface, get help from an assistant.

Assistants who help with wheelchair transfers must always observe the upmost care.

Such operations must be performed only after receiving instruction from fully trained specialists.



6.3 STARTING TO DRIVE YOUR WHEELCHAIR

FINDING THE BALANCE POINT

Your ability to control and safely tip the wheelchair mainly depends on your seating position and the location of the centre of gravity with respect to the rear wheels.

The correct position of the rear wheels depends on different factors such as the occupant's weight, type of disability and the occupant's driving skills.

The manufacturer delivers the wheelchair and the position of the rear wheels (configuration) as requested in the order form.

To find the point at which the chair will tip back easily and, consequently, to find the safe manoeuvring range, proceed as described below.

Starting from your seated wheelchair position:

Move forward by firmly grasping the rear wheel rims.

Then move the hand rims slightly backwards and, while moving your weight backwards, push the hand rims forward with a jerk to make the front of the wheelchair rise

At this point, by moving your body gently backwards and forwards, while moving the rear wheel backwards and forwards using the hand rims, you will be able to locate the centre of gravity and the different points at which you can achieve controlled tipping and risk dangerous overbalance of the wheelchair.



WARNING!

Finding the point at which the chair will tip back safely requires the presence of an assistant who must stand behind the wheelchair ready to prevent it from overbalancing.





WARNING!

If you hang a backpack, a bag or any other object on the push handlebars or any rear area of the wheelchair, the resulting uneven weight distribution can significantly affect the risk of overbalancing.

TO PREVENT THE WHEELCHAIR FROM OVERBALANCING DURING NORMAL USE, WE RECOMMEND FITTING AN ANTI-TIP SYSTEM.

6.4 NEGOTIATING OBSTACLES: STEPS AND DIFFERENCES IN HEIGHT



WARNING!

Always take the utmost care when dealing with the situations described below.

Before negotiating a step, or overcoming an obstacle in general, on your own (i.e. without the presence of an assistant), you must have good control of your wheelchair and know how to Perform controlled tipping (wheelies), keeping your balance on the rear wheels.

Before tackling a step, or more generally negotiating an obstacle, make sure that the anti-tip system is in the neutral position.



DANGER!

Never attempt to negotiate steps or other obstacles higher than 20 cm.

When faced with particularly challenging obstacles, always seek assistance to ensure that such manoeuvres are performed with ease and safely.

6.4.1 Going up and down a step by yourself

GOING DOWN

Take the wheelchair right up to the obstacle so that the front wheels are as close as possible to it.

Raise the front castors by tilting the wheelchair while maintaining balance.

Slide the rear wheels very carefully over the edge.

Always keep your hands firmly on the hand rims during this step.

Once the rear wheels have descended the obstacle, tilt the wheelchair forward until the front castors touch the ground again.



GOING UP

Bring the wheelchair right up to the leading edge of the obstacle.

Raise the front wheels and tip the chair back while maintaining balance.

Using the hand rims, carefully move the rear wheels forwards until they touch the edge of the step.

Tip the wheelchair forward until the front castors rest on the upper surface of the obstacle.

Lean forward in the chair so that the rear of the chair is lighter.

Grasp the hand rims tightly and move the rear wheels forwards that will cause the rear wheel to slide over the edge of the step lifting the rear of the wheelchair off the ground resulting in the overcoming of the obstacle.



6.4.2 Negotiating a step with an assistant

GOING DOWN

Take the wheelchair right up to the obstacle so that the front wheels are as close as possible to it.

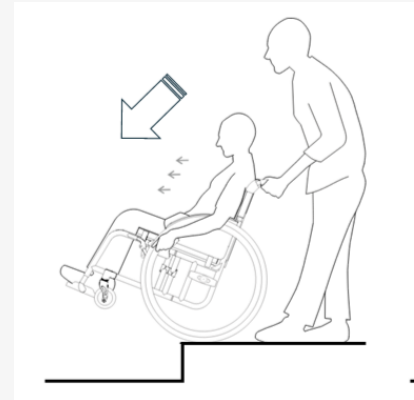
Grip the rear handles tightly and push down to raise the front of the wheelchair.

Keep the wheelchair in this position and accompany it down the step.

The occupant seated in the chair can help the assistant by using the hand rims.

The occupant seated in the chair can help the assistant by using the hand rims.

At the end of the descent, tip the wheelchair forward so that the front castors touch the ground again.



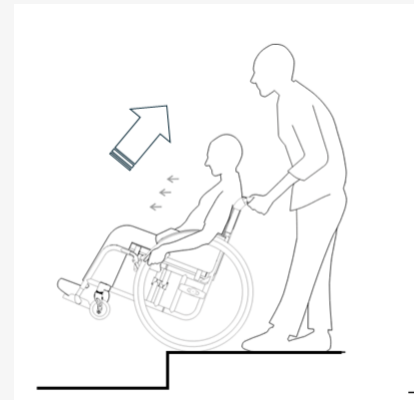
GOING UP

Move backwards towards the step so that the rear wheels of the wheelchair touch it.

Grip the rear handles tightly and push down to raise the front of the wheelchair.

Pull hard while keeping the wheelchair tilted (with the front wheels raised to prevent the occupant from slipping out of the chair) until the rear wheels are over the step.

Keep the wheelchair tilted and move it far enough away from the step to allow the front castors to touch the ground.



GOING UP AND DOWN A SERIES OF STEPS



DANGER!

In the case of stairs with more than one step, two assistants are always required.

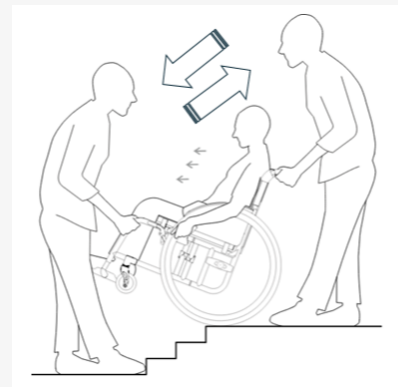
The first assistant stands behind the wheelchair and holds the push handles.

The second assistant grasps a fixed part of the front frame, guiding the wheelchair manoeuvre from the front.



IMPORTANT!

To make raising the front of wheelchair easier for the assistant, the wheelchair should be fitted with the “tipping aid” accessory.



6.5 NEGOTIATING RAMPS AND SLOPES

GOING DOWNHILL

To go downhill safely, the occupant should keep constant, controlled speed, and direction over the entire slope.

Approach the slope at a moderate speed.

Keep your weight backwards in the chair to avoid slipping out.

Hold on to the hand rims on the rear wheels and allow them to slide slowly through your hands.

The occupant should be able to stop the wheelchair at any time simply by blocking the motion of the hand rims.



GOING UPHILL

Driving up any kind of slope should be done with extreme care.

The occupant must move at speed by generating force on the rear wheel while at the same time maintaining control over the wheelchair.

Lean forwards and keep your weight forward in the chair to prevent the wheelchair from tipping over backwards.

Grasp the hand rims tightly.

Drive up the ramp by pushing the wheelchair quickly and forcefully on both hand rims.

Do not jerk, but move steadily and as smoothly as possible.

Do not swing your upper body.



IMPORTANT!

We recommend that occupants who have not yet completely mastered safe use of the wheelchair should have the anti-tip system fitted, which is useful for preventing the wheelchair from tipping over backwards.



CAUTION!

The maximum gradient that can be attempted in complete safety is 3° (6%).

6.6 ENSURING STABILITY

You will encounter situations which will require you to lean out of the wheelchair.

These apparently simple movements could, if not performed with care, result in a loss of stability and possible overbalancing of the wheelchair.



To achieve maximum occupant control of the wheelchair, we illustrate some situations which may emerge during normal daily use of the wheelchair. Please pay particular attention to the following to maintain balance and stability at all times.



WARNING!

Do not lean too far forward; you may fall out of the wheelchair.

Do not move forward by sliding your pelvis across the seat cushion to reach objects that are too far away as you could fall out of the wheelchair.

Do not lean too far back over the backrest, the wheelchair could overturn.

Do not lean too far out to the side, the wheelchair could overturn.

LEANING FORWARDS

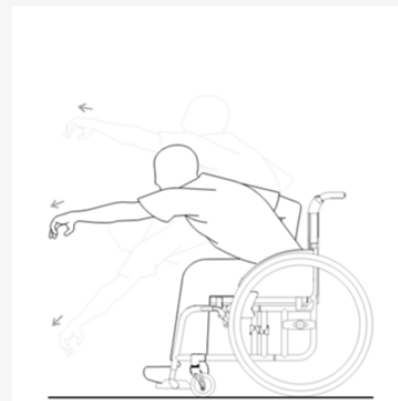
Ensure that the front castors are pointing forwards.

To do this, move the wheelchair forwards and then backwards.

Apply both parking brakes to prevent the wheelchair from moving unexpectedly during the movement.

Lean forward in such a way that your upper body does not extend beyond the front castors at any time (moving your body weight too far forward may cause the rear wheels to tip, possibly causing damage to the wheelchair and harming yourself).

To ensure greater stability, hold on to the wheelchair with your free hand. Do not apply the parking brakes.



LEANING BACKWARDS

Ensure that the front castors are pointing forwards.

To do this, move the wheelchair forwards and then backwards.

Do not apply the parking brakes.

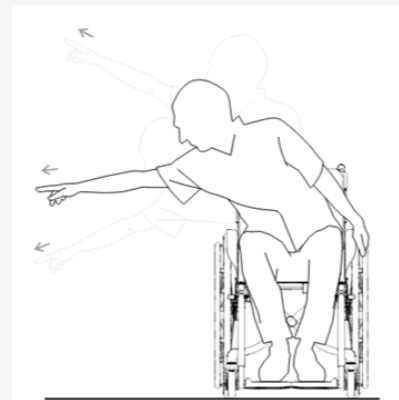
Lean backwards without changing your sitting position.



LEANING SIDeways

Do not move your upper body beyond the rear wheel as the wheelchair could overbalance.

For greater safety and stability, hold on to the wheelchair with your free hand.



7 TRASPORT OF THE WHEELCHAIR

There is no single best way to load the wheelchair into a vehicle.

Factors include the type and degree of the occupant's disability (his/her ability to control his/her upper body, arm, and hand movements), physical strength (the operation may be too difficult for an older person or a child) and the type of vehicle that will be used.

It should be clear that there are too many factors to give a single precise procedure to fit all cases.

For this reason, we will just provide some general advice.



WARNING!

Perform all car loading activities with extreme care and only after receiving instruction from specialist service personnel at our authorised dealers.

If these procedures seem to be unsafe or difficult, we recommend asking an assistant for help.



CAUTION!

Never transport an occupant in the wheelchair in a vehicle unless the wheelchair is certified according to the applicable standard.

If the occupant must be transported while seated on the wheelchair, remember that the wheelchairs are not supplied with seatbelts. Any safety belts for vehicle transport must be installed only by companies that are specialised in vehicle transformations.

7.1 TRANSPORT OF THE OCCUPIED WHEELCHAIR

Always make sure the wheelchair is suitable to transporting the user in a vehicle.

The symbols on the product label indicate if the wheelchair is or not crash tested and, accordingly, if it can be used for the transport of the user on a motor vehicle.

WARNING! Only wheelchairs marked with this symbol are judged suitable for use with the passenger on board the wheelchair.



7.2 TRANSPORT WITH AN ASSISTANT

In cases where the physical limitations of the occupant prevent him/her from moving and loading the wheelchair into the car on his/her own, the help of an assistant will be required.

The lightness and foldability of this model are very important because they enable the wheelchair to be moved easily even by persons with limited physical strength.

Remove all removable parts.

Release the brakes and remove the rear wheels.

Fold the wheelchair (seat and/or backrest).

Take hold of the chair with two hands on the two fixed parts of the frame to balance the weight of the wheelchair and make it easier to lift.

Loading the wheelchair without assistance.

The following actions are intended for people with good control of their upper body, arms, and hands as well as sufficient strength to perform the movements in complete safety.

Thanks to its reduced encumbrance, the wheelchair can be loaded in the boot of the car or between the front and rear seats.



the images are purely indicative

In larger means of transport, you can load the wheelchair without reducing its encumbrance.

7.3 LOADING THE WHEELCHAIR WITHOUT ASSISTANCE

The following actions are intended for people with good control of their upper body, arms, and hands as well as sufficient strength to perform the movements in complete safety. Remove all removable parts.

Open the door on the side where you will get into the car from (e.g. the driver's door), then move the chair as close as possible to the seat.

Engage the brakes and get into the car.

Once you are inside the car, release the wheelchair brakes and pull out the rear wheels.

Fold the wheelchair (seat and/or backrest).

Take hold of the chair with two hands on the two fixed parts of the frame to balance the weight of the wheelchair and make it easier to lift.

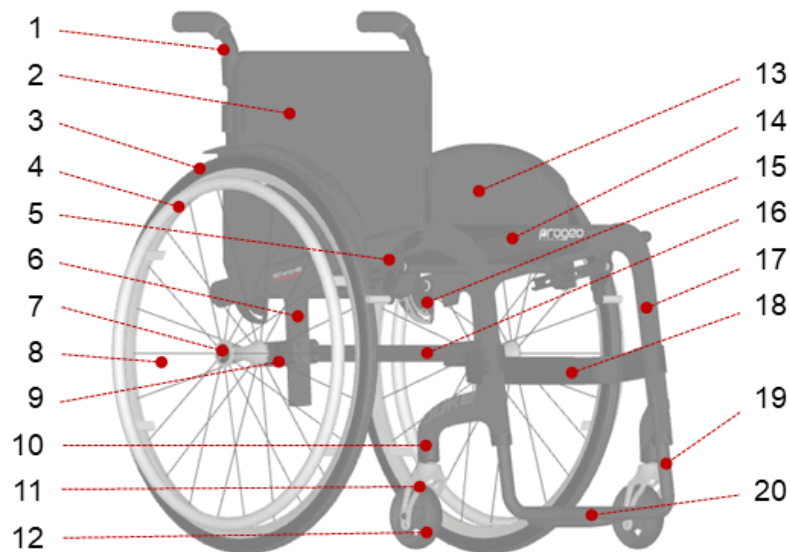
Loading the wheelchair without assistance.

The following actions are intended for people with good control of their upper body, arms, and hands as well as sufficient strength to perform the movements in complete safety.



the images are purely indicative

8 DESCRIPTION OF PARTS



1. Backrest post with handle
2. Backrest padding + Velcro adjustment straps
3. Tyre
4. Hand rim
5. Parking brake
6. Built-in rear height adjustment post
7. Quick release pin
8. Rear wheel
9. Rear height adjustment clamp
10. Fork support
11. Fork
12. Castor
13. Clothing side guard
14. Seat canvas
15. Backrest plate
16. Rear axle
17. Frame
18. Calf strap
19. Footrest post
20. Footrest
21. Backrest structure
22. Release cord



9 ADJUSTMENT

9.1 GENERAL INFORMATION

The Progeo wheelchair is a medical device built by qualified personnel according to a patient-specific data sheet.

Rehateam s.r.l. manufactures, tests and delivers the wheelchair to the dealer with the measurements and characteristics required in the order data sheet.



CAUTION!

We strongly advise occupants against lending the wheelchair to other users, even for brief periods.

Lending your wheelchair to others could cause it to function unsafely and tip over with potentially serious consequences both for the wheelchair and its occupant.

The wheelchair has a configuration and dimensions that are specially designed for the occupant who purchases it, and the characteristics of stability, manoeuvrability and resistance are guaranteed only for that occupant.

Do not make any modifications to the original design, even if they are possible.



CAUTION!

Only authorised qualified Rehateam s.r.l. personnel may make adjustments.

Any adjustments and/or modifications carried out by unauthorised personnel will immediately invalidate the product warranty and relieve Rehateam s.r.l. from any liability for malfunction and/or damage due to such adjustments and/or modifications.

Always contact Rehateam s.r.l. and its technicians for any non-standard requirements or modifications to enable them to assess such modifications and verify that they will not compromise normal and safe use of the wheelchair.

Any modification of the original parameters and configuration could seriously compromise the safe operation of the wheelchair causing damage the wheelchair itself and harm to its occupant.

After every adjustment made to the wheelchair, check carefully that all parts are correctly fixed. Check that all screws and nuts are tightened and that all moving parts are functioning correctly.

After any adjustment, always test the wheelchair before normal use, possibly with the aid of an assistant or a technician.

The possible adjustments for this model are listed below.

Instructions on how to make the adjustments correctly are given in the corresponding SERVICE MANUAL, which is available on the website www.rehateamprogeo.com

9.2 POSSIBLE ADJUSTMENTS

- Rear height

- Front height
- Trim (centre of gravity) (1.5 cm)
- Fork angle
- Backrest height
- Backrest angle
- Footrest distance
- Footrest position
- Footrest inclination
- Brakes
- Convergence
- Seat depth (1.5 cm)

10 ACCESSORIES

10.1 GENERAL INFORMATION

Each model can be equipped with various accessories that should be evaluated according to the needs of the occupant and assistant.

Some of the images in this manual may show a wheelchair model different from the reference one.

However, all instructions are applicable, regardless of the model differences.

10.2 NARROW PASSAGE TRANSIT WHEELS

This accessory becomes necessary when the dimensions of the wheelchair impede getting into or passing through narrow rooms such as a door or a lift.

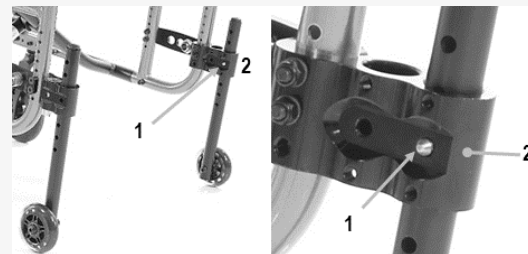
To use this accessory, you should remove the rear wheels.

This makes the wheelchair narrower and shorter.

Each transit wheel can be removed from its support by pressing the locking pin **(1)** and sliding the post off the support **(2)**.

To put the transit wheel on, insert the post into the support **(2)** until the pin **(1)** touches the support.

Then, press the pin and slide the post in until the pin locks in the support hole.





WARNING!

To assemble the transit wheel correctly, remember that the pin **(1)** should always face toward the inside of the wheelchair while inserting the wheel into the support.

Remember that while using the transit wheels (with the rear wheels removed), the parking brakes will not work at all.

The stability of the wheelchair resting on the wheels for narrow passages is reduced, therefore pay great attention and seek help from an assistant.

10.3 ANTI-TIP WHEEL (with steel support)

This accessory is designed to prevent the wheelchair from tipping backwards.

To be efficient, it is fixed at approximately 2-3 cm from the ground.

You can have the anti-tip wheel can be fitted on one or, for more greater safety, on both sides of the wheelchair.

POSITION FOR USE

To check that it is in the correct position for use **(1)**, grasp the post with one hand and try to move it right and left; the post should not turn (there may be a little play).

Then, push the post downward: the post goes down by approximately 1 cm, but it must not come off.

SWINGING

To swing the anti-tip wheel **(2)**, push it down by approximately 1 cm (part **(3)** of the support moves away from the **(4)** without detaching) and turn it sideways.

When you turn the anti-tip wheel by 180° (opposite position **(8)**), the support automatically locks (the part **(3)** locks into the part **(4)**).



To return the anti-tip wheel to the position for use, repeat the operations described above.

REMOVAL/INSERTION

To remove the anti-tip wheel, push the pin **(6)** at the top of the support **6** and push the post down.

To put the anti-tip wheel on, insert part **(7)** of the support into the hole in part **(4)** and turn the post until the two parts locks together.

NEUTRAL POSITION

Move the anti-tip wheel to the neutral position (8) when necessary, for example, to climb steps.



WARNING!

Verify the efficiency of the system with an assistant.

The front of the wheelchair must be raised until the anti-tip wheel touches the ground and prevents the wheelchair from tipping.

Take great care when performing this operation.

Make sure it is fitted correctly (in the position for use) before using the wheelchair.



IMPORTANT!

When negotiating obstacles or steps, put the anti-tip wheel in the neutral position.

10.4 ASSISTANT'S PUSH HANDLE

These push handles can only be fitted to backrests without handles.

You can adjust their height to offer the assistant a better handhold and pushing position.

The assistant or the occupant can easily adjust and remove them.

To adjust the height, unscrew the lever **(1)**, slide the post up or down to the desired height, position the handle facing backwards and finally tighten the lever **(1)** securely.

The handle must not turn unintentionally.

To remove the push handle, unscrew the lever **(1)** and slide the post off the support.

To fit the push handle on the wheelchair, insert the post into the support and adjust its height as described above.

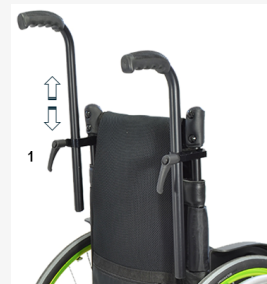


WARNING!

Important warning for the assistant: the push handle posts are safe to use only when the two levers **(1)** are tightened securely. In fact, this condition prevents the posts from sliding up or down, or even coming off accidentally.

Before pushing the wheelchair, make sure the two posts are safely locked.

Rehateam s.r.l. shall not be held liable for any damage or injury caused by failure to observe this warning.



10.5 FOLDING PUSH HANDLES

When folded down, these push handles reduce the overall size of the wheelchair and eliminate possible interference with the occupant's arms when self-propelling the wheelchair.

When in the operating position **(1)**, they act just like normal handles.

To fold the handle down, press the pin **(2)** just below the handle, and lower it **(3)**.

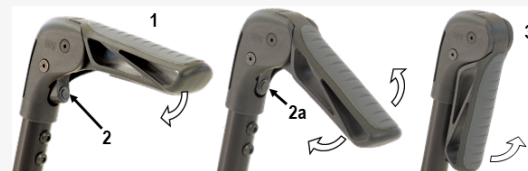
The pin remains pressed down **(2a)**.

To fold the handle up to its position for use, just swing it up until the pin **(2)** locks automatically.



WARNING!

When the assistant moves the wheelchair with the occupant sitting on it, make sure the push handles are safely locked in their operating position.



10.6 TETRACLIP

This is a special quick release axle with a ring lever. It simplifies wheel removal for occupants with particular problems affecting their hands and fingers.

The quick release works by turning the ring lever 90°

When the wheel is inserted in the bushing, the ring lever should be as shown in figure **(1)**, i.e. turned by 90° relative to the axle.

To remove the wheel, turn the ring lever so that it aligns with the axle as shown in figure **(2)**.

Then remove the wheel.

To insert the wheel, the ring lever must be aligned as shown in figure **(2)**.

Insert the wheel and turn the ring lever by 90° as shown in figure **(1)**.





WARNING!

Checking the quick release axles of the rear wheels is one of the procedures that the occupant should perform periodically.

If the quick-release axles are not inserted correctly, the rear wheel may come off during use, resulting in the wheelchair tipping over and possible injury to the occupant.

See also chapter 5.5 *QUICK-RELEASE REAR WHEELS*.

10.7 PELVIC BELT AND HARNESS

Both the pelvic belt and the harness are accessories to this model and must therefore be ordered separately.

Both these belt systems are designed to assure the occupant greater safety and stability while seated in the chair.



IMPORTANT!

Both the pelvic belt and harness system are of particular use for occupants with little control of their upper body and who require extra support to be held securely in the seat during use.



DANGER!

Danger of serious injury or strangulation.

A loose belt can allow the occupant to slide downward and pose a strangulation hazard.

The posture belt must be fitted by an experienced technician and the person responsible for prescribing its use must ensure its suitability.

The pelvic belt can be obtained from our network of authorised dealers.

PELVIC BELT

The pelvic belt **(1)** holds the wheelchair occupant around the waist, leaving the upper body free to move.

The pelvic belt is anchored to the wheelchair at two points **(2)** on the rear of the frame.

HARNESS



The harness **(3)** holds the wheelchair occupant's body by means of two fastening points at waist height and other two at shoulder height.

The occupant's entire upper body is secured to the seat.

It is intended for use by occupants with particularly limited upper body mobility.

The harness anchored to the wheelchair at four points: two at the rear of the frame **(2)** and two at the height of the backrest handles **(4)**.

USE

Using the pelvic belt and harness system is fairly simple.

Before sitting in the wheelchair, the occupant or assistant should open the buckles **(5)** by pressing the sides of both ends and pulling them apart.

Once seated in the chair with the belt or harness in place, the occupant can close the buckles by fastening the two parts together.

Either can be adjusted by pulling the ends of the pelvic belt **(6)** or the harness strap **(7)**.

Moreover, the lengths of the straps at the other buckles **(8)** can also be adjusted.



WARNING!

Always check that the buckles are working correctly and secure before using the belts.

10.8 LUMBAR SUPPORT

This is a pad that offers extra support to the lumbar area.

To position the lumbar support, raise the backrest upholstery on its front side.

Use the Velcro fastener to attach the lumbar support to either the backrest padding or the backrest strips at the required height.

Finally, return the backrest upholstery back to its normal position.



10.9 LATERAL SUPPORT

This accessory is designed support the occupant's torso.

The lateral support is of the “swing-away” type so it can be swung backward.

Turn the lever **(1)** by 90° and swing the lateral support to the opposite position, where it will lock automatically.



WARNING!

Make sure the system is stable.

Always check the adjustment. In fact, if the system is unstable, it may lead to risky situations for the occupant.



10.10 REAR WHEELS

10.10.1 General information

In the order sheet, you can choose from different rear wheels and various kinds of hand rim and tyre to suit your functional or aesthetic needs.



WARNING!

Regardless of the quick-release wheel type, always check that the quick-release axle is inserted correctly. See chapter 5.5 *QUICK-RELEASE REAR WHEELS*

10.10.2 Wheels Spinergy Flexrim

This type of wheel has an aluminium hand rim with flexible rubber that significantly improves grip.

Different types of tyre can be fitted.

10.10.3 Wheels Off-road

These wheels provide superior smoothness and comfort on rough or unpaved terrain.

They are also recommended if the wheelchair is equipped with a front propulsion device.

They are only supplied with their matching tyre and an aluminium hand rim.

You can choose this type of wheel as a kit in addition to the main rear wheels chosen for your wheelchair (and they are interchangeable).



10.10.4 Wheels Fat-wheel

These wheels enable the wheelchair to be used on more challenging terrain. They are also recommended if the wheelchair is equipped with a front propulsion device.

They are only supplied with their matching tyre and an aluminium hand rim.

You can choose this type of wheel as a kit in addition to the main rear wheels chosen for your wheelchair (and they are interchangeable).



10.11 HAND RIM

Special hand rims are available for this Progeo wheelchair model. Their special features ensure improved grip and therefore more efficient pushing motion, especially for occupants with limited strength or hand and finger mobility.

1. Polished aluminium
2. Aluminium — rubber coating
3. Chrome-plated steel
4. Brushed titanium
5. Ultra Grepp — hard rubber
6. Max Grepp — soft rubber
7. Tiller
8. Silicone ring to be applied over the aluminium hand rim
9. Top Friction — with hard rubber band along the outer perimeter
10. Nova H made of aluminium
11. Nova D made of aluminium coated with hard rubber

NOTE: the figure showing each handrail includes an indicative cross-section drawing





WARNING!

When assembling these hand rims, there is a risk of pinching or crushing the fingers between the hand rim itself and the wheel rim.

Always perform this operation with great care.

10.12 TYRES

Different types of tyres are available, as listed below.

Compatibility with the rear wheel depends on the size of the wheel itself.

1. High-pressure slick
Light and reliable, suitable for most environments.
2. High-pressure treaded
Light and reliable, more suitable for uneven surfaces.
3. Marathon Plus
With anti-puncture protection, suitable for most environments.
4. Solid tyre
Suitable for most environments, it does not need inflation but its ride is less smooth. It has a little less grip, especially over smooth and wet surfaces and it absorbs less vibration when rolling on rough surfaces.



10.13 SPOKE GUARDS

Their function is mainly cosmetic but they also prevent occupants from accidentally inserting their fingers into the rear wheel spokes.

1. Colour
2. Dragon
3. Black
4. Transparent



10.14 CASTORS

Various types and sizes of castors are available for this model, depending on the occupant's functional needs and/or aesthetic preferences.

In general, the larger the diameter and width of the wheel, the easier it will be to negotiate rough terrain and small obstacles such as stones, small height differences of the order of 1 cm.

Soft castors offer a more comfortable drive than hard ones.

The pneumatic castor is the most comfortable but must be inflated regularly.

Hard casters absorb less vibration when driving on rough surfaces.

1. 3" Sport– 80x24
2. 3" Active Soft — 80x34
3. 4" Soft– 100x32
4. 4" Active Sport – 100x21
5. 4" Active Soft – 100x32
6. 5" Soft — 125x27
7. 5" Active Soft — 125x34
8. 5" Pneumatic — 127x26



WARNING!

Before using the wheelchair, always check that castors do not interfere with other components of the wheelchair as they turn.

Periodically check that the castors are secured properly.



10.15 VANITY FLAP (seat/backrest bonding canvas)

With this accessory you can affix the backrest upholstery to the seat canvas; it is useful for avoiding a possible backward sliding of a cushion that is not properly fixed to the seat.

This vanity flap is quite simple to apply; using the male Velcro strips, just attach it to the inside of the backrest padding and to the female Velcro strips on the seat fabric.



10.16 REMOVABLE UTILITY BAG

This accessory is very useful for stowing items to carry with you, both when using the wheelchair and in other situations.

In fact, the bag is easily removable thanks to the support fixed to the wheelchair.

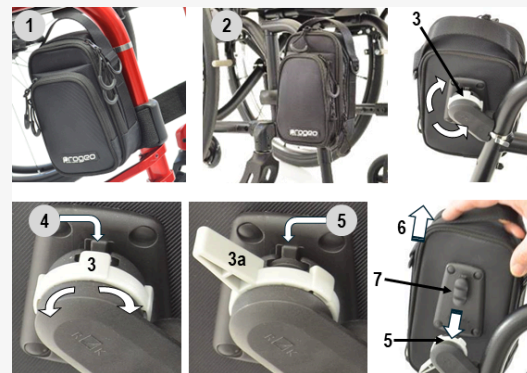
Depending on the space available, the bag may face backwards **(1)** or forwards **(2)** and is normally fixed in the front part of the wheelchair.

To remove the bag, turn the knob **(3)** from the locking position **(4)** to release the slotted guide **(5)**.

The lever **(3a)** on the knob can have different positions, in fact there are various locking positions.

Once slotted guide **(5)** is free, pull the bag upwards to remove it **(6)**.

To attach the bag, insert the support **(7)** along the slotted guide **(5)** and finally turn the knob **(3)** to one of the locking positions **(4)** as described above.



10.17 FRAME PROTECTION PAD

This accessory is very useful for protecting the frame from possible impact.

This padding is quite simple to apply, just wrap it around the frame and fasten it with the Velcro strips.

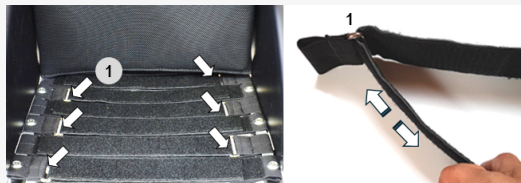


10.18 SEAT WITH VELCRO STRAPS

With this type of seat, it is possible to adjust the tension of each individual Velcro strip of which it is composed.

The quite easy to do, just detach the strip from itself and pull it or slacken it as needed by letting it slide through the buckle (1).

Finally, fasten the Velcro strap.



10.19 RIGID SEAT

This is a rigid seat board (1) made of non-deformable carbon fibre to provide greater stability.

In the absence of a front axle, the rigid seat is supplied with a handle (2) to make it easier to load the wheelchair.

The object pocket (3) can be requested as an accessory —

To fit the pocket, pass the Velcro strips (4) through the slots in the seat, bring them to the front of the seat and secure the edge of the pocket to them (5).

To remove the pocket, detach the edge and take off everything.



11 MAINTENANCE

The expected lifetime of the wheelchair, conservatively estimated, is five years.

Periodic inspection of the wheelchair is essential to guarantee maximum performance and a long life.

Regular, thorough checks and proper use of the wheelchair will extend its life by many years.

To clean the aluminium or carbon fibre parts (frame, hand rims, brakes etc.), the backrest and the seat, we recommend using only a soft, damp cloth.



WARNING!

Within 6 months from purchase, we recommend going to an authorised PROGEO dealer for a complete check-up of your wheelchair.

Failure to check the wheelchair will immediately invalidate the warranty and release the manufacturer from any liability for possible damage.



WARNING!

We recommend paying particular attention to cleaning the hand rims on the rear wheels, which become dirty very easily because of their constant use and vicinity to the ground.

Careful cleaning the hand rims ensures a firm grip and thus safer operation.



CAUTION!

When cleaning the wheelchair, do not use abrasive cleaning agents or degreasing substances which could cause damage.



WARNING!

Sand, sea water, water containing chlorine or other aggressive environments, may damage bearings, bolts, nuts or any parts subject to movement.

We recommend avoiding contact with the above-mentioned aggressive agents and, in case of exposure, performing a careful washing and cleaning.

The warranty does not cover oxidized parts and damage caused by careless use.



WARNING!

Firmly tighten all screws and replace lock nuts that are used frequently.

In fact, with frequent loosening and tightening they tend to lose their effectiveness.



WARNING!

Have a complete check of the wheelchair carried out (at least every three months) by qualified personnel authorised for maintenance on PROGEO products.

For any questions about how to adjust and maintain your Progeo wheelchair, the experienced technical staff at Reha-team s.r.l. are at the complete disposal of all our customers.

You can contact us directly at the following address: Rehateam s.r.l., Vicolo Negrelli 5, 31038 Castagnole di Paese TV, Italia, tel. 0039 0422 484657, mail: info_it@permobil.com

11.1 REPLACING WEAR PARTS

With its use, any wheelchair will require, in addition to the routine maintenance, further “unscheduled” intervention due to the normal wear and tear of components.

Such servicing is closely linked to the amount of time for which it is used and how it is handled (e.g. use on uneven and rough terrain, in salty environments, etc.).

11.1.1 Repairing a puncture

In the event of a puncture, remove the wheel and Remove the tyre using bicycle tyre levers.

Remove the inner tube and repair it using a standard puncture repair kit.

If repair is not possible, replace the inner tube.

The rear wheel tyres should be replaced whenever excessive or irregular wear is noticed since this degrades the wheelchair's performance.

To re-fit an inner tube and tyre onto the wheel rim, it is necessary to partially inflate the inner tube. Insert the inflation valve into the hole in the rim.

Using both hands and bicycle tyre levers, insert the inner tube into the tyre and work the edge of the tyre over the wheel rim, ensuring that all parts enter correctly.

While re-fitting the tyre, be careful not to pinch the inner tube. Finally, inflate to the correct pressure.

In case of solid tyres, when worn out, they should be replaced with new ones.

11.1.2 Spare parts

For the replacement of parts due to wear and tear or breakage (or simply for the purchase of accessories) all the necessary spare parts to keep your wheelchair in perfect working order will remain readily available.



IMPORTANT!

All spare parts can be ordered through our authorised dealers. Adjustment may be required after replacing parts.

11.2 CHECKING THE PARTS

As a daily check, we recommend the following operations:

- Check the tyre pressure.
- Check the quick release axles.
- Check the folding system (seat and/or backrest).
- Check the footplate.

- Check the parking brakes.
- General check of all screws.
- The condition of all parts subjected to wear and tear.

11.3 DISINFECTING AND REUSING THE WHEELCHAIR

When the wheelchair is used regularly, all surfaces that come into contact with the occupant should be treated frequently, or whenever the need arises, with a spray disinfectant.

It is not normally possible to guarantee the thorough disinfection of stitched seams.

We therefore recommend that the seat and backrest covers be changed and appropriately discarded in the event of bacterial contamination, in compliance with current regulations.

If the wheelchair is reused, the same type of treatment must be carried out very carefully before using the wheelchair again.



WARNING!

The first thing you should know is that cleaning is not the same as disinfecting.

By cleaning we remove germs and dirt from surfaces, but we do not kill germs, although removing them decreases the amount and risk of spreading infections.

On the other hand, with a disinfection, what we do is kill microorganisms such as bacteria through using chemicals.

This process does not necessarily clean dirty surfaces, but by killing germs on the surface, it can further reduce the risk of spreading the infection.

Bearing that in mind, the correct process to follow with the wheelchair is to first perform routine cleaning and then disinfect it using a sanitary surface disinfectant.

These products are bactericidal and virucidal.

You can find more information about these products on the Ministry of Health website or other reliable sources.

We also recommend that you carefully read the manufacturer's instructions for correct use and disinfection as well as to avoid possible contraindications.

11.4 EXTENDED STORAGE

If the wheelchair is not used for a medium-long period (over 4 months), it should be cleaned and stored in a dry and covered place and inside a box (preferably that of the original packaging).

When it is time to use it again, carry out a general check of the wheelchair following the steps described in paragraph 11.2 *CHECKING THE PARTS*.

Before the occupant can use the wheelchair, carry out driving tests of the wheelchair to check for defects.

In case of malfunctions, faults or broken parts, consult an authorised dealer for the necessary repair.

11.5 DISPOSING OF/RECYCLING PARTS



When the wheelchair is to be disposed of (end of life of the product), it is necessary to consider any prevailing local regulations for waste disposal or recycling.

This includes cleaning or disinfecting the wheelchair before disposal.

A description of the materials used is provided below.

- Aluminium: frame, forks, wheels, backrest tubes, footplate tubes
- Titanium: frame, backrest tubes
- Steel: bolts and nuts, quick release axle
- Plastic: footplates, side guards
- Rubber/PU: grips, tyres, wheels
- Carbon fibre: frame, side guards, footplates
- Upholstery: textile with expanded foam

- Upholstery: textile with expanded foam.

Packaging: plastic bags made of soft polyethylene, cardboard
Alternatively, you can return the backrest to your dealer for disposal.



WARNING!

In the event of disposal, be aware of any broken or damaged parts which could create a situation of potential danger with cutting or pinching injuries.

The use of suitable protection is recommended.

12 TROUBLESHOOTING GUIDE

With constant and prolonged wheelchair use, or after adjusting certain parts, some “defects” may emerge, which can easily be eliminated by qualified personnel, or, where indicated by the ■ symbol, also by the occupant or assistant. In any case, we recommend consulting an authorised Rehateam s.r.l. dealer.

Problem	Cause of the problem	Solution	
The wheelchair does not go straight.	The front forks are not perpendicular to the ground.	Check castor angle	
	The castors are not set to the same height.	Check castor height.	
	Incorrect or unbalanced tyre pressure.	Inflate the tyres at the same and correct pressure	■
	The spokes are broken or loose.	Change the damaged spokes or tighten the loose ones.	
	The castor bearings are dirty or damaged.	Clean the bearings. Change the bearings.	■
The wheelchair tips up easily.	The rear wheel trim is set too far forward.	Change the rear wheel plate with one set to a more rearward position (if possible).	
	The wheelchair is excessively inclined.	Increase the rear height or decrease the front height.	
	The backrest is tilted excessively backwards.	Adjust the backrest angle to a more forward setting.	
The parking brakes do not work properly.	Incorrect tyre pressure.	Check tyre pressure.	■
	Bad adjustment of brake position.	Check brake adjustment.	
The wheelchair fails to roll smoothly.	Incorrect tyre pressure.	Check tyre pressure.	■
	Friction on the locking pin.	Clean and lubricate the parts.	■
Clean and lubricate the parts.	The backrest does not lock.	Clean and lubricate the parts.	■
	The travel-limit screw is too long and it touches the frame before locking occurs.	Tighten the travel-limit screw.	

13 TECHNICAL SPECIFICATIONS

- **SEAT WIDTH** 330; 360; 390; 420; 450; 480 mm
- **SEAT DEPTH** 350; 375; 400, 425, 450, 475, 500 mm
- **FOOTREST DISTANCE** 210 to 490 mm (*adjustable*)
- **BACKREST HEIGHT** 245 to 470 mm (*adjustable*)
- **BACKREST ANGLE** 74° to 94° (*adjustable*)
- **CAMBER** 0°; 2°; 4°
- **FRONT HEIGHT** 445 to 530 mm (*adjustable*)
- **REAR HEIGHT** 380 to 460 mm (*adjustable*)
- **TRIM (balance point)** 75; 90; 105 mm
- **FRONT FRAME ANGLE** 90°
- **TOTAL WIDTH** seat width + 170 mm (*with 0° camber*)
- **TOTAL LENGTH (std. conf.)** approximately 820 mm
- **WHEELCHAIR WEIGHT (lightest conf.)** from approximately 7.8 kg
- **WEIGHT WITHOUT REMOVABLE PARTS (lightest conf.)** from approximately 5.2 kg (*without rear wheels*)
- **WEIGHT OF STANDARD REAR WHEEL PAIR** approximately 3.2 kg
- **WEIGHT OF ARMREST PAIR** approximately 1.5 kg
- **MAXIMUM LOAD** 125 kg

14 WARRANTY

The warranty agreement exists only between Rehateam s.r.l. and its authorised dealers. For this reason, the customer may not make warranty claims directly. The following warranty conditions are therefore provided solely for information purposes.

General warranty conditions

Rehateam s.r.l. provides assistance on its products provided they have been used correctly, and that adequate maintenance has been carried out on all parts of the wheelchair. The warranty covers all material and production defects provided that such defects can be shown to have been caused prior to delivery of the product to the authorised dealer.

How to exercise your warranty rights

To benefit from all warranty rights on all our products, the authorised distributor/retailer must carry out an inspection on the products received within 7 days from the delivery date in order to ascertain any manufacturing defects. Then, if a manufacturing defect was found, the authorised distributor/retailer must immediately report it in writing to Rehateam s.r.l..

Any defects that, despite scrupulous checks, have been identified only after expiry of the period indicated above, must also be reported in writing to Rehateam s.r.l..

Warranty period

On this wheelchair model, Rehateam s.r.l. provides a warranty of 5 years on the frame, and 2 years on all other components and accessories, starting from the delivery date, excluding any components subject to normal wear and tear during everyday use.

Repair of defects or replacement

The warranty on defects in contact parts covers either repair of the defect or replacement of the part, at the sole discretion of Rehateam s.r.l.. For simple repairs, the authorised distributor may take action independently to eliminate the defect, or bring the defect to the attention of Rehateam s.r.l. in specific cases. Regarding our production line labelled with the trademarks Progeo and Physio, since these products are custom made using artisanal non-industrial procedures, minor imperfections, small discrepancies in colour and carbon fibre weave are not to be considered defects.

Limits of the warranty

The warranty does not cover additional costs (e.g. repair, packing, labour costs, incidental costs).

The following are not covered by the warranty:

- Damage caused during shipment and not notified to the carrier at the moment of delivery.
- Repairs carried out by unauthorised dealers or personnel.
- Wear parts — consult your distributor/dealer for a list of these parts.
- Damage to property or injury to persons caused during use of our products.
- Damage caused maliciously or where the buyer is at fault or resulting from incorrect or improper use of the product.
- Damage caused to the wheelchair, property and people resulting from any device or object mounted on or added to the wheelchair without written authorisation from Rehateam s.r.l..

All claims for compensation are excluded from the warranty except for those specifically mentioned in the preceding paragraphs of this chapter.

Rehateam s.r.l. shall not be held liable for failure to observe or follow the indications set out in the individual contracts, if the following events have prevented and/or made it impossible to respect the terms of said contract: embargoes, import and export bans on contracted products, legal regulations, strikes and lock-outs, raw material shortages, accidents or other circumstances of force majeure.

Rehateam s.r.l. is not obliged to disclose any technical variations made to its products, which may be subject to modifications and updates as deemed necessary.

15 WARRANTY CERTIFICATE



REHATEAM s.r.l.



Vicolo Negrelli 5 — 31038 Castagnole di Paese (TV) — Italy



0039 0422 484657



0039 0422 484661



info@rehateamprogeo.com



www.rehateamprogeo.com

DISTRIBUTOR / DEALER

Stamp

Date of delivery to the customer:

MEDICAL DEVICE
CLASS I



product label

permobil

eng-UK



www.permobil.com