

# User manual

MANUEL D'UTILISATION  
GEBRUIKSAANWIJZING  
GEBRAUCHSANWEISUNG  
MANUALE DI ISTRUZIONI  
MANUAL DE INSTRUCCIONES  
INSTRUKCJA OBSŁUGI  
NÁVOD K OBSLUZE

## Gemini 2





## Contents

<b>Contents</b> .....	<b>1</b>
<b>Preface</b> .....	<b>2</b>
<b>1 Your product</b> .....	<b>3</b>
1.1 Accessories.....	3
<b>2 Before use</b> .....	<b>4</b>
2.1 Intended use.....	4
2.2 Explanation of symbols.....	4
2.3 General safety instructions.....	4
2.4 Transport.....	5
2.5 Assembling / Disassembling the wheelchair.....	5
2.6 Storage.....	6
<b>3 Using your wheelchair</b> .....	<b>7</b>
3.1 Operating the brakes.....	7
3.2 Comfort adjustments.....	7
3.3 Transfer in and out of the wheelchair.....	11
3.4 Riding the wheelchair.....	12
<b>4 Maintenance</b> .....	<b>13</b>
4.1 Points of maintenance.....	13
4.2 Maintenance instructions.....	13
4.3 Troubleshooting.....	14
4.4 Expected lifespan.....	14
4.5 Reuse.....	14
4.6 End of use.....	14
4.7 Warranty.....	14
<b>5 Technical specifications</b> .....	<b>15</b>

## Preface

Congratulations! You are now owner of a Vermeiren wheelchair!

This wheelchair is made by qualified and committed personnel. It is designed and produced according to high quality standards, guarded by Vermeiren.

Please read this manual carefully; it will help you to get familiar with the operation, capabilities and limitations of your wheelchair. If you still have questions after reading this manual, do not hesitate to contact your specialist dealer. He/she will be glad to help you.

### Important note

To ensure your safety, and to prolong the lifetime of your product, please take good care of it and have it checked and serviced on a regular basis.

This manual reflects the latest product developments. Vermeiren has the right to implement changes to this type of product without any obligation to adapt or replace similar products previously delivered.

Pictures are used to clarify the instructions in this manual. Details of the depicted product may deviate from your product.

### Information available

On our website <http://www.vermeiren.com/> you will always find the most recent version of the information in this manual. Please consult this website regularly for possible updates.

Visually impaired people can download the electronic version of this manual and have it read out by means of a text-to-speech software application.



User manual

For user and specialist dealer



Installation instructions

For specialist dealer



Service manual for wheelchairs

For specialist dealer



EC declaration of conformity

# 1 Your product



1. Push bar
2. Backrests
3. Safety belt
4. Seat
5. Footrest
6. Footplate
7. Steering wheels (front wheels)
8. Driving wheels (rear wheels)
9. Brake
10. Frame
11. Location identification plate

## 1.1 Accessories

The following accessories are available for the Gemini 2:

- Rain cover
- Canopy
- Leg cover
- Foot fixation strips
- Side cushions
- Stabilisation and support pieces

Contact your specialist dealer about other accessories. He will gladly advise you.

## 2 Before use

### 2.1 Intended use

In this paragraph a brief description of the intended use of your wheelchair is given. Additionally, relevant warnings are added to the instructions in the other paragraphs. In this way we would like to make you aware of the possible misuse that may appear.

- Indications and contraindications: The wheelchair can be pushed by an attendant or parent. The wheelchair is intended for children with a disability or movement dysfunction because of brain damage. The modular construction allows you to choose the optimal design for your child's specific needs.
- The wheelchair is suited for indoor and outdoor use.
- The wheelchair is designed to transport one (1) child with a maximum weight as specified in §5. It is not designed for transportation of goods or objects, nor for any use other than previously described.
- Only use accessories and spare parts approved by Vermeiren.
- Please read all technical details and limits of your wheelchair in chapter 5.
- The warranty of this product is based on normal use and maintenance as described in this manual. Damage to your product caused by improper use or lack of maintenance will cause the warranty to lapse.

### 2.2 Explanation of symbols



Maximum weight of the user in kg



Indoor/outdoor use



Maximum safe slope in ° (degrees).



Type designation

### 2.3 General safety instructions

- As an attendant, do not use the wheelchair if you are under the influence of alcohol, medicines or other substances that may influence your riding abilities.
- Be aware that some parts of your wheelchair may get very hot or cold due to ambient temperature, solar radiation or heating devices. Be careful when touching. Wear protective clothing if the weather is cold. When going outdoors, riding gloves can be used to improve the grip on the hand rims.
- Do not modify your wheelchair in any way.
- To prevent injury and/or damage to your wheelchair, make sure that no objects and/or body parts are caught in the spokes of the driving wheels.

Be aware that your wheelchair may interfere with some types of anti-theft systems, depending on the settings used. This may cause the shop's alarm to go off.

In case a serious incident has occurred involving your product, notify Vermeiren or your specialist dealer as well as the competent authority in your country.


## 2.4 Transport

### 2.4.1 Moving out of the way

The best way to move the wheelchair is to make use of the wheels and roll the wheelchair.

If this is not possible (e.g. when the rear wheels are taken off for transportation in a car), firmly grasp the frame on the front and rear. Do not use the footrests or the wheels to grasp the wheelchair.

### 2.4.2 Transport by vehicle, as luggage

 **WARNING** Risk of injuries

Do NOT use your wheelchair as seat in a vehicle, see the symbol.  
Never use the same safety belt for passenger and wheelchair.



1. Fold the wheelchair to its most compact size according to the instructions in § 2.5.
2. Store the wheelchair and its wheels in the luggage compartment or behind the passenger seat. If luggage and passenger compartments are NOT separated or enclosed, fasten the wheelchair frame securely to the vehicle.

## 2.5 Assembling / Disassembling the wheelchair

 **CAUTION** Risk of injuries

Keep fingers away from moving parts of the wheelchair.

To fold the wheelchair:

1. Use the central brake to stop the wheelchair from moving, see §3.1.
2. Pull the red lever under the front of the seat (1). The lever can be reached through the opening in the leg rest upholstery, or by folding up the leg rest upholstery.
3. Lift the front of the seat up and pull the seat as a whole forward. You can now remove the seat from the frame.
4. Pull parts (2) upwards on both sides until the upper frame is unlocked.
5. Push the push bar (3) to the front to fold the frame.
6. Let the frame rest on the rear wheels and frame tube. Now the frame can be folded completely.
7. Turn the push bar downwards, see §3.2.9.
8. If necessary, take off accessories from the seat and fold the backrest down (4).



To unfold the wheelchair:

1. Grasp the push bar (3) and move it upwards to unfold the frame.
2. Turn the frame so the front and rear wheels can rest on the ground.
3. Move the push bar backwards to unfold the frame completely.
4. Check that parts (2) click over the lower frame tube and the frame is firmly secured.
5. Turn the push bar in the desired position, see §3.2.9.
6. Take the seat and unfold the backrest if necessary.
7. Install the rear of the seat first\*: the two metal hooks must be placed over the lower frame rod that is furthest away from the front of the seat.
8. When the rear of the seat has been placed correctly, the front can be easily locked by pushing down. A click will be heard.
9. Make sure that the seat has been attached properly to the lower frame.
10. Adjust the seat for the comfort of your child and install any accessories that had been removed for transport (see §3.2).

\*The seat of Gemini 2 can be installed with your child facing forwards or facing towards you as you push. The same instructions apply for both options.



It is also possible not to remove the seat and fold the Gemini 2. Be aware that you should first remove all the accessories and supports before completely folding the backrest to the front.

## 2.6 Storage

- i** Make sure that your wheelchair is stored in a dry environment to prevent mould from growing and the upholstery from being damaged, see also chapter 5.



## 3 Using your wheelchair



CAUTION

Risk of injuries and/or damage

- First read previous chapters and inform yourself about the intended use. Do NOT use your wheelchair unless you have read and fully understood all instructions.
- In case of doubts or questions, do not hesitate to contact your local specialist dealer, your care provider or technical adviser to help you with this.
- Make sure that your hands, clothes, belts, buckles or jewellery don't get caught by wheels or other moving parts, during use or adjustment.

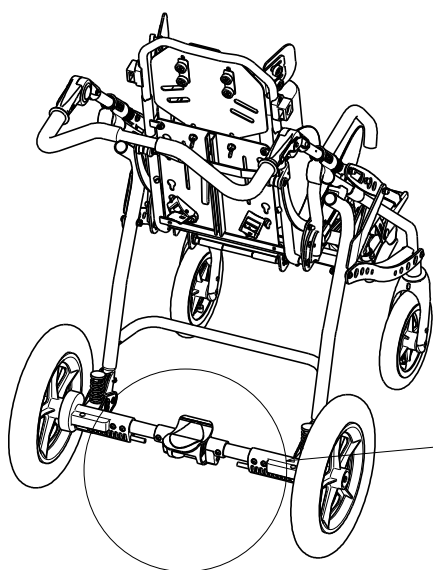
### 3.1 Operating the brakes



WARNING

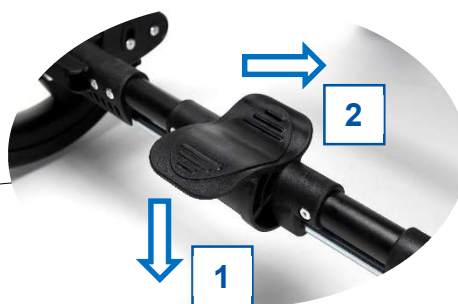
Risk of injury

- The brakes are not used to slow down the wheelchair during movements. Use the brake only to prevent the wheelchair from unintended movements.
- Good operation of the brakes is influenced by wear and contamination of the tires (water, oil, mud, ...). Check the condition of the tires before each use.
- The brakes are adjustable and can wear. Check the operation of the brakes before each use.
- Make sure the wheelchair is on a flat horizontal surface before releasing the brakes. Never release both brakes simultaneously.



Gemini 2 brakes are operated by one central brake lever:

- Push the central brake in direction (1) to activate the brake.
- By pushing the central brake in direction (2), the brake will be released.



### 3.2 Comfort adjustments



WARNING

Risk of injury and/or damage

Make sure that all adjustments are firmly secured before using the wheelchair.

#### 3.2.1 Seat inclination

1. Press the lever (3) on the side of the push bar.
2. Press down on/lift the front of the seat until the desired inclination.
3. Release the lever.



### 3.2.2 Backrest inclination

#### Seat width 32:



1. Loosen the lever (4) on the rear side of the backrest.
2. Push or pull the backrest tubes in the desired position (from folded position for easy transport, to lying down position: 0° - 45°). The backrest automatically stops when it reaches the maximum inclination.
3. Retighten the lever (4).
4. Check that the backrest is well fixated.

#### Seat width 40:

1. Pull the pin (5).
2. Pull or push the backrest until the desired angle (6 different positions in steps of 8°). The backrest automatically stops when it reaches the maximum inclination.
3. Release the pin (5).
4. Check that the backrest is well fixated.

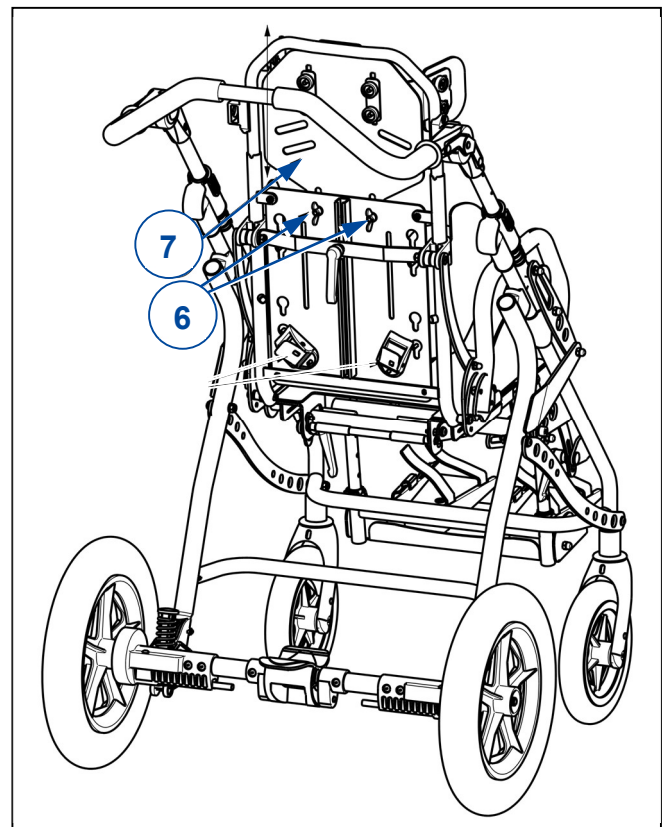


There is an extra hole that prevents that the backrest will be lift back in the vertical position when the backrest is folded to the seat (for transportation purposes).

### 3.2.3 Backrest height

Remove the upholstery to alter the backrest height.

1. Loosen the two wing nuts (6) on the back of the backrest.
2. Move the upper part (headrest) (7) of the backrest upwards or downwards until the desired backrest height.
3. Retighten the two screws and wing nuts (6) firmly by hand.



### 3.2.4 Footrest inclination



1. Loosen the levers (8) on both sides.
2. Adjust the footrest to the desired position (stepless; range 83° for seat width 32, range 85° for seat width 40).
3. Retighten both levers (8).
4. Make sure that the footrest is firmly fixated.

### 3.2.5 Footrest length (only for seat width 32)



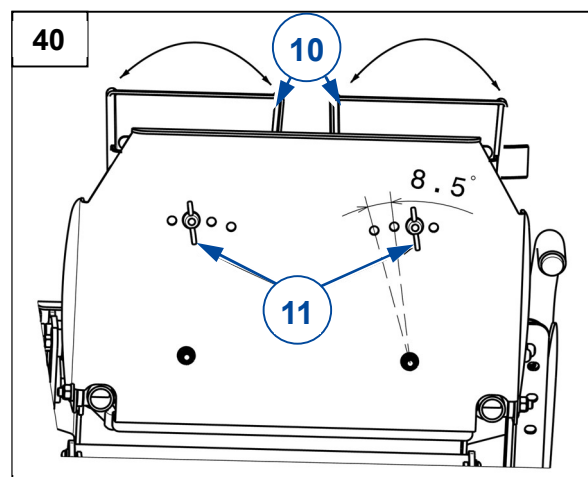
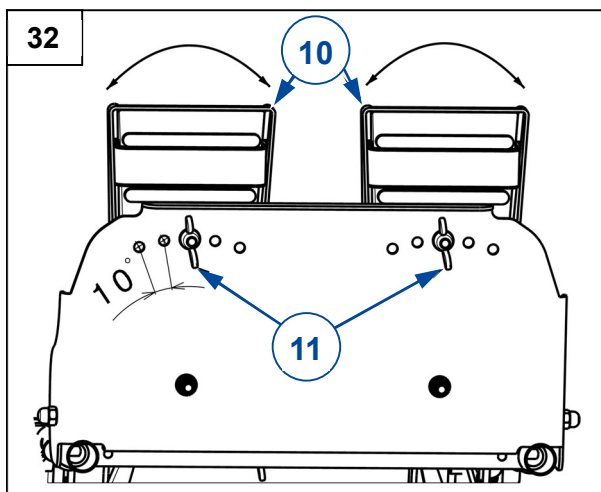
The footrest can be set into 4 different lengths (steps of 30 mm):

1. Retract both blocking pins (9).
2. Slide the footplate up/down to the desired position.
3. Block the undercarriage again with the blocking pins (9).
4. Make sure the footplate is firmly fixated.

### 3.2.6 Foot supports (optional)

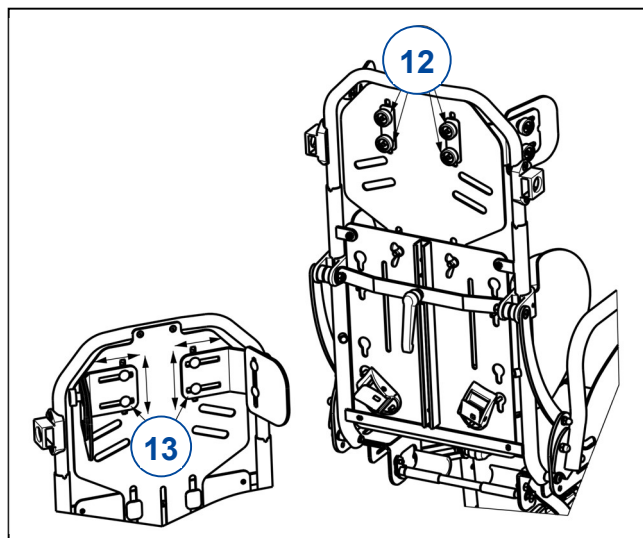
The angle of the foot supports (10) can be adjusted in several positions (Seat width 32: 5 positions, 10° steps – Seat width 40: 4 positions, 8,5° steps)

1. Loosen the wing nuts (11) on het bottom of the footplate.
2. Turn the foot supports (10) in the desired position.
3. Retighten the wing nuts (11).
4. Make sure that the foot supports are firmly fixated.



### 3.2.7 Side supports (optional)

#### Head pelots

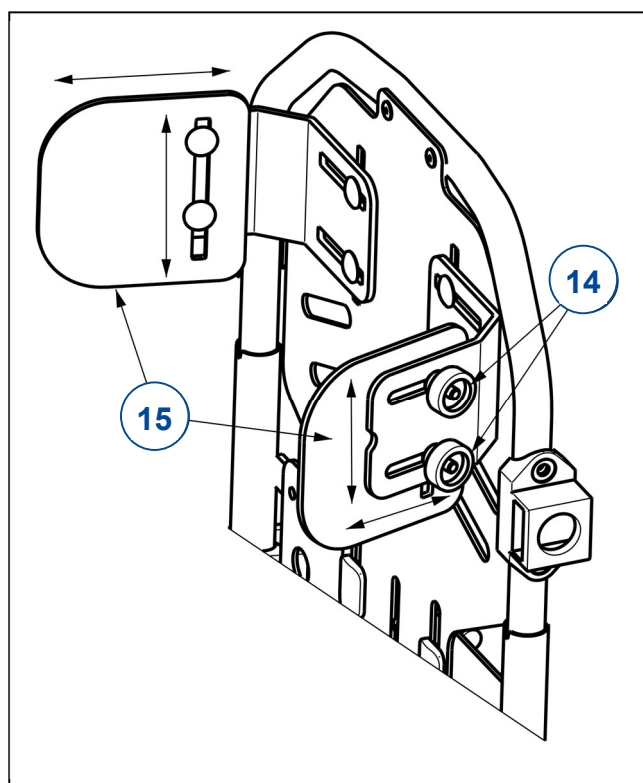


#### Adjusting width:

1. Loosen the two knurled knobs (12) on the rear side of the backrest.
2. Move the head pelot (13) inwards or outwards until the desired position (stepless, range 25 mm each side).
3. Retighten the two knurled knobs (12).
4. Check that the pelot (13) is well fixated.
5. Repeat these instructions for the other pelot (13).

#### Adjusting height:

1. Loosen the two knurled knobs (12) on the rear side of the backrest.
2. Move the head pelot (13) up or down until the desired height (stepless, range 30 mm).
3. Retighten the two knurled knobs (12).
4. Check that the pelot (13) is well fixated.
5. Repeat these instructions for the other pelot (13).



#### Adjusting height:

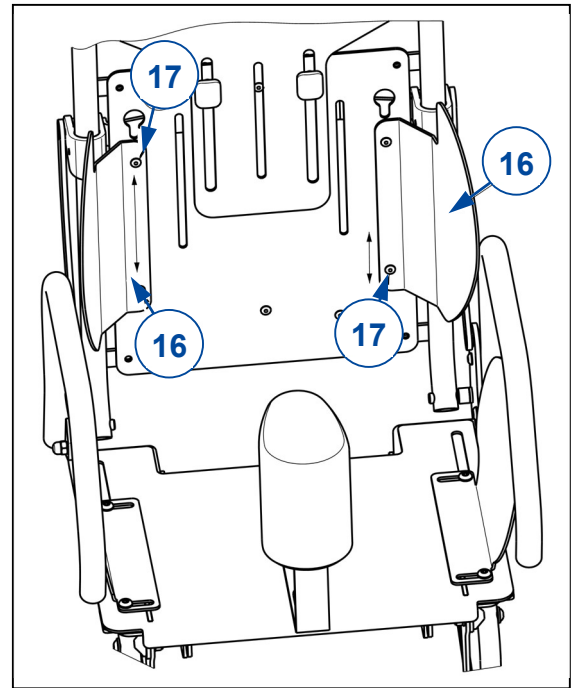
1. Loosen the two knurled knobs (14) on the side of the pelot.
2. Move the head pelot (15) up or down until the desired height (stepless, range 25 mm).
3. Retighten the knurled knobs (14).
4. Check that the pelot (15) is well fixated.
5. Repeat these instructions for the other pelot.

#### Adjusting depth:

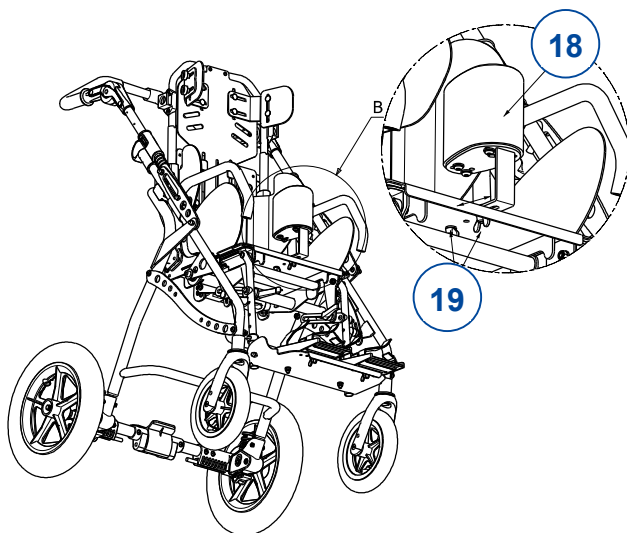
1. Loosen the two knurled knobs (14) on the side of the pelot.
2. Move the head pelot (15) to the front or back until the desired depth (stepless, range 22,5 mm).
3. Retighten the two knurled knobs (14).
4. Check that the pelot (15) is well fixated.
5. Repeat these instructions for the other pelot.

### **Backrest pelots height**

The backrest pelots (16) can be placed in 2 positions (40 mm distance). Slightly lift the pelot upwards to detach it from the backrest. Place it in the desired position by placing the screws (17) through the holes in the backrest. Repeat for the other pelot.



### **3.2.8 Abduction Wedge (optional)**



The abduction wedge (18) is mounted with two wing nuts (19). It can easily be removed by loosening/tightening the wing nuts (19).

The abduction wedge can be moved forward/backward over a distance of 115 mm.

### **3.2.9 Push bar position**

Simultaneously push both buttons (20) at the clamp of the pushbar and move to the desired position. Releasing the buttons (20) on the clamp will automatically lock the pushbar in the desired position.



## **3.3 Transfer in and out of the wheelchair**

**WARNING**

Risk of injury and/or damage

- Do not stand on the footplates.
- 1. Position the wheelchair as close as possible to the chair, couch or bed to/from which you wish to transfer.
- 2. Check that the central brake is activated.
- 3. Transfer the child to/from the wheelchair.
- 4. Secure the safety belt.

### 3.3.1 Correct position in the wheelchair

Some recommendations for a comfortable use of the wheelchair:

- Position your backside as close as possible to the backrest.
- Make sure your upper legs are horizontal. If needed, adjust the length of the footrests.

## 3.4 Riding the wheelchair



CAUTION

Risk of injuries and damage

- Before every usage, make sure that:
  - parking brakes are working properly.
  - tires are in good condition, see §4.
- Prevent your fingers from being caught by the wheel spokes.
- Do NOT drive on slopes, obstacles, steps or kerbs larger than specified in §5.
- When you stop on a (small) slope, use your brakes.
- Make sure all four wheels touch the ground while riding up or down a slope.
- Pay attention if the road has holes or gaps that may cause entrapment of the wheels.
- Avoid stones and other objects that may block the wheels.
- Make sure that the footplates do not touch ground while taking an obstacle.
- Use the safety belt.
- Always keep the swing range of the footplate in mind to prevent bystanders from being injured or objects from being damaged.
- Stairs should always be negotiated with the help of two attendants.

### 3.4.1 Riding your wheelchair

The wheelchair can only be operated by an attendant:

1. Take hold of the push bar.
2. Release the brakes.
3. Push the wheelchair.
4. For seat width 40: Use the tipping aid on the lower frame to overcome obstacles.

## 4 Maintenance

### 4.1 Points of maintenance

 CAUTION Risk of injuries and damage

Repairs and replacements may only be undertaken by trained persons and only genuine replacement parts of Vermeiren should be used.

**i** The service frequency depends on the frequency and intensity of use. Contact your dealer to agree to a common timetable for inspection/maintenance/repair.

For the maintenance manual, refer to our website: [www.vermeiren.com](http://www.vermeiren.com).

#### *Before each use*

Inspect the following points:

- All parts: Present and undamaged or unworn.
- All parts: Clean, see § 4.2.2.
- Wheels, backrest, seat, calf rests, arm rests, footplate: Well secured.
- Condition of wheels/tyres, see § 4.2.1;
- Condition of frame parts: No deformation, instability, weakness or loose connections
- Seat, backrest, arm pads, calf pads and head rest (if applied): No excessive wear (like dented spots, damage or tears).
- Brakes: Undamaged and functioning

Contact your specialist dealer for possible repairs or part replacements.

#### *Yearly or more often*

Have your wheelchair inspected and serviced by your specialist dealer, at least once a year, or more often. The minimum maintenance frequency depends on use and should therefore be commonly agreed on with your specialist dealer.

### 4.2 Maintenance instructions

#### 4.2.1 Wheels and tyres

**i** Proper working of the brakes depends on the state of the tyres, and can change due to wear and contamination (water, oil, mud, ...).

Keep your wheels free of wires, hair, sand and fibres.

Check the profile of the tyres. If the tread depth is less than 1 mm, the tyres need to be replaced. Contact your specialist dealer for this matter.

Inflate each pneumatic tyre to the correct pressure (see pressure indication on the tyres).

#### 4.2.2 Cleaning

 CAUTION Risk of damage by moisture

- Never use a hose or high-pressure cleaner to clean the wheelchair.

Wipe all rigid parts of the wheelchair with a damp cloth (not drenched). If necessary, use a mild soap, suitable for varnishes and synthetics.

The upholstery can be cleaned with lukewarm water and a mild soap. Do not use abrasive cleaning agents to clean.

### 4.2.3 Disinfection

CAUTION

Risk of damage

- Disinfections may only be undertaken by trained persons. Consult your specialist dealer.

## 4.3 Troubleshooting

Even if you use your wheelchair properly, a technical problem may occur. If this is the case, contact your local specialist dealer.



WARNING

Risk of injuries and damage to the wheelchair

- NEVER attempt to repair the wheelchair yourself.

The following symptoms may indicate a serious problem. Therefore always contact your specialist dealer if you spot any of the following deviations:

- Strange sound;
- Uneven tread wear on one of the tyres;
- Jerky movements;
- Wheelchair deflects to one side;
- Damaged or broken wheel assemblies.

## 4.4 Expected lifespan

The average lifespan of your wheelchair is 5 years. Depending on the frequency of use, driving circumstances and maintenance, the lifespan of your wheelchair will increase or decrease.

## 4.5 Reuse

Before each reuse, have the wheelchair disinfected, inspected and serviced according to the instructions in §4.1 and §4.2.

## 4.6 End of use

At end of life, you need to dispose your wheelchair according to the local environmental legislation. The best way to do so, is to disassemble the wheelchair to facilitate the transport of recyclable parts.

## 4.7 Warranty

The warranty on this product is subject to the general terms and conditions of each country, as you can consult on our company website.



## 5 Technical specifications

The technical details below are only valid for this wheelchair, at standard settings and optimal ambient conditions. Take these details into account during use.

The values are no longer applicable if your wheelchair has been modified, damaged or suffers from severe wear.

Table 1: Technical specifications

<b>Make</b>	<b>Vermeiren</b>
<b>Type</b>	<b>Manual wheelchair</b>
<b>Model</b>	<b>Gemini 2</b>

Description	Seat width 32	Seat width 40
Maximum occupant mass	35 kg	50 kg
Overall length with footrest	950 mm	1060 mm
Effective seat width	320 mm	400 mm
Overall width	620 mm	690 mm
Overall height	1200 mm	1275 mm
Folded length	820 mm	930 mm
Folded width	620 mm	690 mm
Folded height	460 mm	560 mm
Total mass	18 kg	27 kg
Mass of heaviest part	Seat: 7,2 kg	Seat: 13,55 kg
Effective seat depth	300 - 360 mm	360 - 420 mm
Seat surface height at front edge	510 mm	510 mm
Seat angle	-25° - +30°	-25° - +30°
Backrest height	520 - 640 mm	650 - 770 mm
Backrest angle	0° - 45°	0° - 40°
Distance between footrest and seat	250 - 340 mm	315 - 400 mm
Angle between seat and footrest	2,5° - 85,5°	3° - 88°
Distance between armrest and seat	200 mm	200 mm
Front location of armrest structure	235 mm	310 mm
Horizontal location of axle (deflection)	230 mm	150 mm
Minimum turning diameter	Footplate folded up: 1200 mm Footplate folded down: 1480 mm	Footplate folded up: 1620 mm Footplate folded down: 1850 mm
Diameter Rear wheels	295 x 50 mm	
Tyre pressure, rear (driving) wheels	Max. 2.5 bar	
Diameter Steering wheels	200 x 40 mm	
Tyre pressure, front (steering) wheels	Max. 2.5 bar	
Storage and use temperature	+ 5 °C - + 41 °C	
Storage and use humidity	30% - 70%	

**We reserve the right to introduce technical changes. Measurement tolerance ± 15 mm / 1,5 kg / 1,5°**





## Service registration form

This product (name): .....

was inspected (I), serviced (S), repaired (R) or disinfected (D):

By (stamp):  Kind of work: I / S / R / D Date:	By (stamp):  Kind of work: I / S / R / D Date:	By (stamp):  Kind of work: I / S / R / D Date:
By (stamp):  Kind of work: I / S / R / D Date:	By (stamp):  Kind of work: I / S / R / D Date:	By (stamp):  Kind of work: I / S / R / D Date:
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### **Instructions for specialist dealer**

This instruction manual is part and parcel of the product and must accompany every product sold.

Version: E, 2022-11

Basic UDI: 5415174 122103Gemini 2 9D

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