

User manual

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

V100 XL



CE

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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.

Thank you for your trust in the products of Vermeiren. To support you on the use of this wheelchair and its operating options, this manual is offered. Please read it 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. Handgrips
2. Push bar
3. Backrest
4. Arm pads
5. Armrests
6. Seat
7. Footrests
8. Footplates
9. Front wheels
10. Brakes
11. Rear wheels
12. Hand rims
13. Tipping aid
14. Cross
15. Identification plate

1.1. Options

Contact your specialist dealer about options. He will gladly advise you.

2. Before use

2.1. Intended use and indications

- This product is a medical device.
- Indications and contraindications: The user can propel the wheelchair by himself or have the wheelchair pushed by an attendant. The wheelchair is intended for elderly people or people with walking difficulties or no walking abilities, and who are in need of a larger seat width than 50cm and/or a higher user weight. You should NOT use this wheelchair if you suffer from physical or mental impairments that may put you, or other people, in danger when driving the wheelchair. For this reason, consult your physician first and make sure that your specialist dealer is informed about his advice.
- This wheelchair is suitable for indoor and outdoor use.
- This wheelchair is designed and produced solely to transport/transfer one (1) person with a maximum weight of 170kg. 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 on 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. Safety instructions and applicable risks

CAUTION

Risk of injuries and/or damage

- Carefully read and follow the instructions in this manual. Otherwise you may get injured or your wheelchair may get damaged.

Keep the following general warnings in mind during use:

- Do not use your wheelchair if you are under influence of alcohol, medicines or other substances that may influence your driving 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 product in any way.
- If the packaging of your product has been damaged, (unintentionally) opened, or affected by environmental conditions (moisture, heat,...) upon delivery, check the device integrity of your product. When in doubt, contact your specialist dealer.

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.

Any serious incident [MDR (EU) 2017/745 §2 (65)] that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

2.3. Symbols on the wheelchair

	Type designation
	Catalogue number
	Serial number
	Medical device
	Manufacturer
	Date of manufacture
	Declaration of conformity
	Attention: important information
	It is advised to read the manual
	Risk of entrapment
	Maximum weight of the user in kg
	Not intended to be used as a seat in a motor vehicle

2.4. Transport

2.4.1. Transport by vehicle, as luggage

⚠ WARNING

Risk of injuries

- Do NOT use your wheelchair as a seat in a vehicle, see the following symbol.



- Make sure that the wheelchair is attached properly to avoid injury from the passengers during collision or sudden braking.
 - NEVER use the same seatbelt to secure the wheelchair and passenger.
1. Remove footrests, armrests and accessories.
 2. Store footrests, armrests and accessories safely.
 3. If possible, fold the wheelchair and remove the rear wheels.
 4. Place the wheelchair in the luggage compartment.
 5. If the luggage and passenger compartments are NOT separated, attach the frame of the wheelchair securely to the vehicle. You can use the available safety belts in the vehicle.

2.5. Folding/Unfolding

⚠ CAUTION

Risk of injuries

- Keep fingers away from moving parts of the wheelchair.

2.5.1. Unfolding the wheelchair

1. Position yourself behind the wheelchair.
2. Use the handgrips to open the wheelchair as much as possible.
3. Position yourself at the front of the wheelchair.
4. Push both seating tubes down till they are fixed in their position.
5. Mount the push bar (see §3.3.4.).

2.5.2. Folding the wheelchair

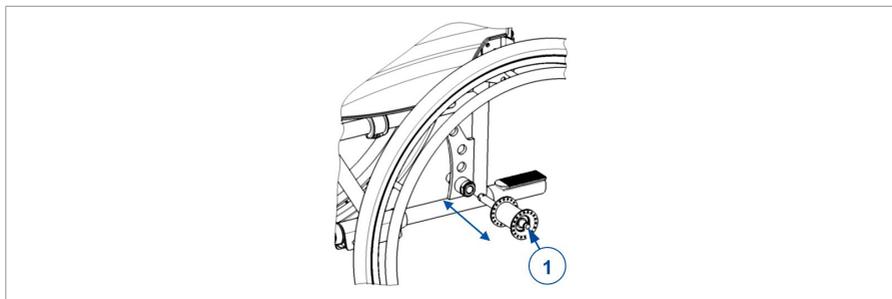
1. Fold the footplates or remove the footrests (see § 3.3.1.).
2. Remove the push bar (see §3.3.4.).
3. Take the seat on the front side and backside and pull it up.

2.5.3. Mounting the rear wheels

1. Take the rear wheel and push button (1).
2. Keep the button pushed in and mount the rear wheel axle until it stops.
3. Release the button.
4. Check that the wheel is secured.

2.5.4. Taking off the rear wheels

1. Make sure the brakes are in the off position.
2. Take the wheelchair to the side frame where you want to remove the wheel.
3. Press the button in the center of the wheel hub.
4. Pull the wheel away from the frame.



2.6. Storage

⚠ CAUTION

Risk of damage

- 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

⚠ WARNING

Risk of injuries

- 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.

3.1. Operating the brakes

⚠ CAUTION

Risk of injuries

- 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.

3.1.1. To apply the brakes:

1. Push the brake levers forward until you feel a distinctive click.

3.1.2. To release the brakes:

1. Release one brake by pulling the lever backwards.
2. Hold the hand rim of the released wheel with your hand.
3. Repeat this for the second wheel and parking brake.

3.2. Moving to/from the wheelchair

CAUTION

Risk of injuries or damage

- In case you cannot perform the transfer in a safe manner, ask someone to assist you.
- Do not stand on the footplates.

3.2.1. Transfer

1. Position the wheelchair as close as possible to the chair, couch or bed to/from which you wish to transfer.
2. Apply both parking brakes, see §3.1..
3. Fold the footplates or remove the footrests (see § 3.3.1.).
4. If the transfer is on the side of the wheelchair, remove the armrest on that side (see § 3.3.2.).
5. Transfer to/from the wheelchair using the strength of your arms or with the help of attendant(s) or lifting equipment.

3.2.2. Sitting in the wheelchair

Some recommendations for a comfortable use of the wheelchair:

- Sit down on the seat with your lower back against the backrest.
- Make sure your upper legs are horizontal. If needed adjust the length of the footrests (see installation manual).

3.3. Comfort adjustments

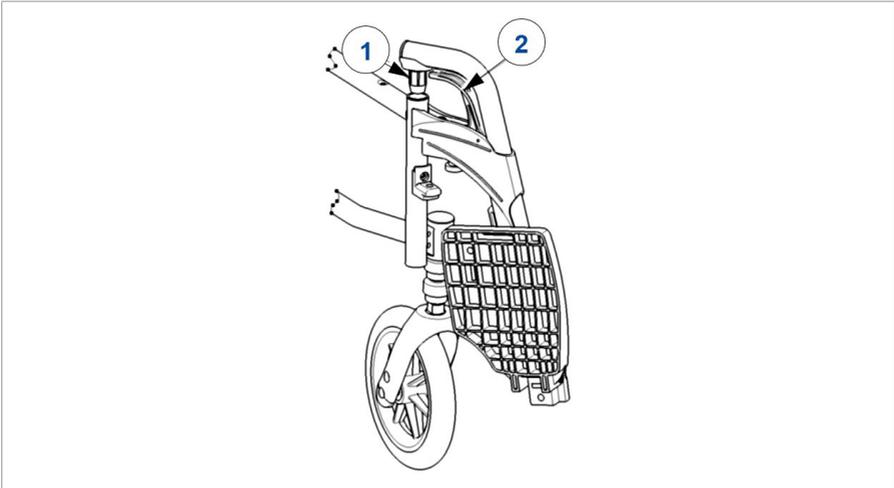
CAUTION

Risk of injuries or damage

- The following comfort adjustments can be done by the attendant or caretaker. All other adjustments are done by your specialist dealer according to the installation instructions, see preface.
- Always keep the swing range of the footplate in mind to prevent bystanders from being injured or objects from being damaged.

- Make sure that your fingers, clothes, buckles don't get trapped during adjustment.

3.3.1. Mounting or removing the footrests



3.3.1.1. Mounting the footrests

1. Hold the footrest sideways at the outside of the wheelchair's frame and mount the tube hood (1) into the frame.
2. Swing the footrest inwards until it clicks in position.
3. Swing the footplate downwards.

3.3.1.2. Dismounting the footrests

1. Pull lever (2).
2. Swing the footrest to the outside of the wheelchair until it comes loose from the guidance.
3. Pull the footrest from the tube hood (1).

3.3.2. Mounting or removing the armrests

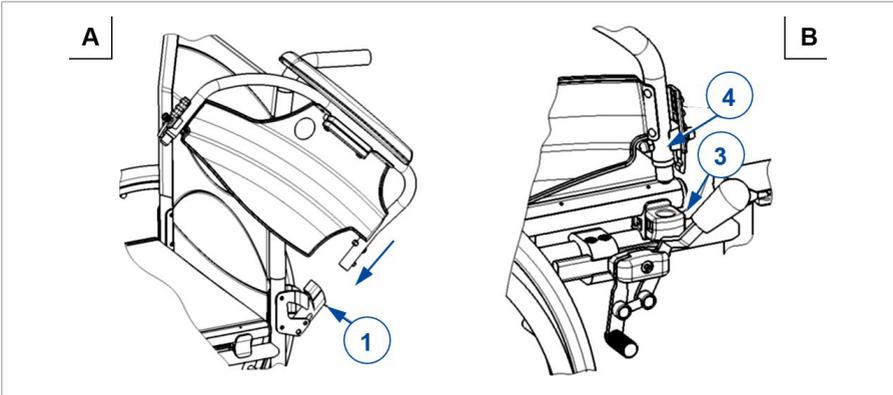
⚠ CAUTION

Risk of injuries

- Keep fingers, buckles and clothes away from the bottom side of the armrest.

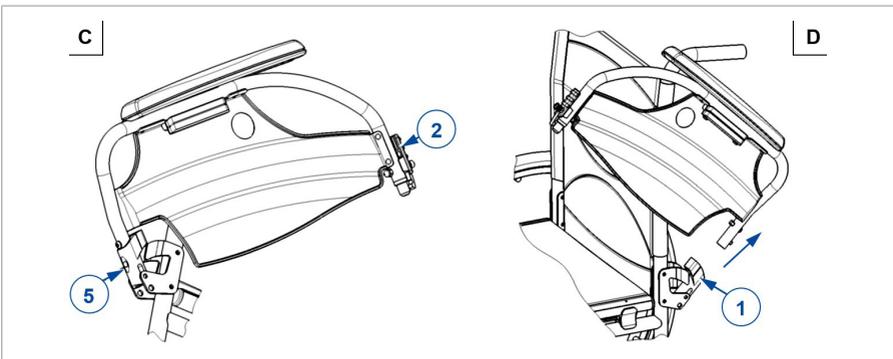
3.3.2.1. Mounting the armrests

1. Mount the rear tube of the arm rest in tube hood (1). (Fig A)
2. Make sure the armrest clicks in the locking mechanism.
3. Fold the arm support to the front.
4. Click the front tube of the arm support (4) in tube hood (3). (Fig B)



3.3.2.2. Opening and removing the armrests

1. Press lever (2) and pull the front of the arm support upwards. (Fig C)
2. Fold the arm support backwards.
3. To remove the arm support, press button (5) and pull the rear of the arm support from tube hood (1). (Fig C & D)



3.3.3. Adjusting anti-tipping (if applicable)

Adjust the height of the anti-tipping in 7 positions (range 120 mm: steps 20 mm):

1. Loosen the star knob (1) .
2. Move the tube of the anti-tipping in the desired height.
3. Secure the star knob.
4. Make sure that the anti-tipping is firmly secured.

3.3.4. Mounting or removing the push bar

⚠ WARNING

Risk of injuries

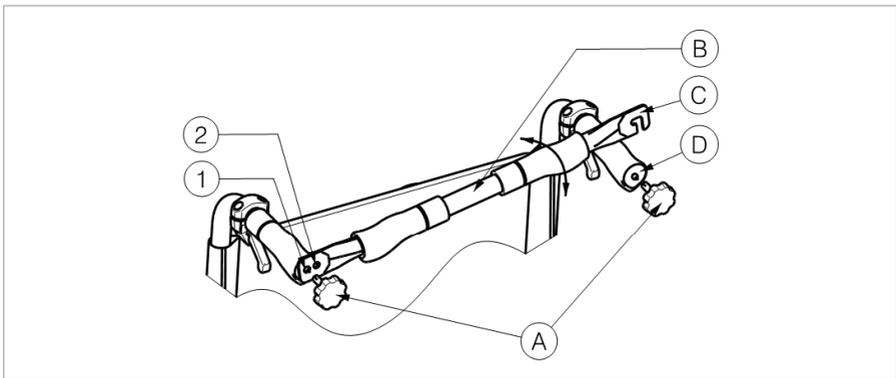
- Make sure that buttons (A) are tightened.
- When equipped with the push bar, the push bar should always be mounted to increase the stability of the back.

3.3.4.1. To mount the push bar

1. Mount the push bar (B) with the star knob (A) in the left handgrip.
2. Swing the push bar (B) to the right.
3. Mount hook (C) over the right handgrip (D) as shown on the drawing.
Use holes (1) or (2) to adjust the tension of the backrest.

3.3.4.2. To take off the push bar

1. Loosen the star knob (A) on the right handgrip.
2. Remove hook (C) from the right handgrip (D).



3.4. Riding the wheelchair

- i** Depending on your medical condition and type of wheelchair, you can ride the wheelchair yourself or have it pushed by an attendant.

⚠ CAUTION

Risk of entrapment

- Prevent your fingers from being caught by the wheel spokes.
- Prevent entrapment of your hands on the hand rims when you pass small passages.
- When driving with an attendant, keep your arms away from the wheels and keep your feet on the footplates.

⚠ CAUTION

Risk of injuries or damage

- Do NOT drive on slopes, obstacles, steps or kerbs larger than specified in § 5..
- Do not proceed with your wheelchair in traffic. Always stay on the pavement.
- Do not operate the hand rims with wet hands.
- 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.
- Always keep the swing range of the footplate in mind to prevent bystanders from being injured or objects from being damaged.
- Before every usage, make sure that:
 - all adjustments are firmly secured, see §3.3..
 - the parking brakes are working properly.
 - the tires are in good condition, see §4.2.1..

3.4.1. Riding with an attendant

1. Release the brakes or have them released by the attendant, while he/she is holding the wheelchair to prevent movement, see §3.1..
2. The attendant grasps the handgrips or push bar to push the wheelchair in the desired direction.
3. After stopping, apply the brakes while holding the wheelchair in place, see §3.1..

3.4.2. Riding on your own

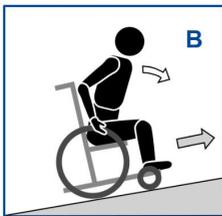
1. Release the parking brakes one by one, see §3.1..
2. Move your hands to the highest position on both hand rims.
3. Lean forward and push the hand rims forward until your arms are straight.
4. Swing your arms loosely back to the topside of the hand rims and repeat the push movement.
5. To stop: wait until the wheelchair stops and move forward/backward by operating the hand rims. Apply the parking brakes one by one, see §3.1..

3.4.3. Riding on slopes

⚠ CAUTION

Risk of injuries

- If the attendant has too little strength to control the wheelchair, stop riding and use the brakes immediately.
- When you stop on a (small) slope, use your brakes.



1. Secure yourself in the wheelchair with a safety belt.
2. Ask an attendant or a bystander to help you.
3. Drive slowly and in a straight line. Lean slightly forward (A/B) when going up the slope. Lean backwards, against the backrest, when going down the slope.
4. Never reverse on a slope.

3.4.4. Using ramps

⚠ CAUTION

Risk of tipping over

- Only use ramps approved by Vermeiren and do not exceed their maximum load.
 - Make sure that the wheelchair does not touch the ground or ramp due to the inclination of the wheelchair.
 - Only negotiate ramps with the help of one or two attendants.
1. Adjust the position of backrest, seat and footrest to decrease the volume taken by the wheelchair and to increase the stability during inclination.
 2. Remove the footrests, see §3.3.1..
 3. Follow the instructions in §3.4.3..

3.4.5. Using stairs

⚠ CAUTION

Risk of tipping over

- Stairs should always be negotiated with the help of two attendants.
- Never try to use stairs that are not appropriate for wheelchairs.



1. Remove the footrests, see §3.3.1..
2. One attendant tips the wheelchair slightly backwards by the handles.
3. The second attendant grabs the wheelchair at the front of the frame, on both sides of the wheelchair.
4. Stay calm, avoid sudden movements and keep your arms inside the wheelchair.
5. Both attendants lift and pull the wheelchair from step to step while the rear wheels roll over the steps.
6. After using the stairs, mount the footrests back in place, see §3.3.1..

3.4.6. Coping with obstacles

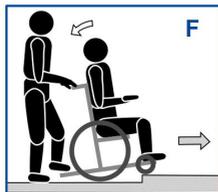
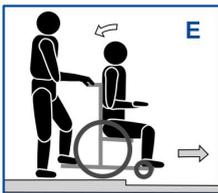
⚠ CAUTION

Risk of tipping over

- If you do not have enough experience with your wheelchair, ask assistance of an attendant.
- Make sure that the footplates do not touch ground while taking an obstacle.
- Do not use your wheelchair on an escalator.
- If available, wear your safety belt.

3.4.6.1. Small kerbs (up or down)

These can be taken forward (E / F) with one attendant, or by experienced wheelchair users alone.



1. The attendant moves the wheelchair forward approaching the kerb. Make sure the footplates won't touch the kerbs.
2. Lean backwards to reduce the pressure on the front wheels.
3. The attendant holds the handles firmly while moving forward. If necessary he uses the tipping aid to keep the front wheels lifted until they have passed the kerb rim.
4. The attendant releases the pressure on the handles and tipping aid to gently put the front wheels on the ground.
5. Next, he holds the handles firmly while pushing the wheelchair with the rear wheels up/down the kerb.

A practiced user can negotiate small kerbs forward by himself:

	<p>Going down:</p> <ol style="list-style-type: none"> 1. Bring balance on the rear wheels to reduce the pressure on the front wheels. 2. Negotiate the kerb.
	<p>Going up:</p> <ol style="list-style-type: none"> 1. Drive until the kerb. 2. Lean backwards so you are balancing on the rear wheels. 3. Role the front wheels balancing over the kerb. 4. Bend forwards for more stability. 5. Role the rear wheels over the kerb.

3.4.6.2. Medium kerbs (up or down)

These should be taken backwards with one attendant:

	<ol style="list-style-type: none"> 1. The attendant reverses the wheelchair so that rear wheels approach the kerb first (G / H). 2. Going down: Lean forward (G) to move your centre of gravity to the front. Going up: Lean backward (H) to move your centre of gravity to the back. 3. The attendant pulls the wheelchair gently from/on the kerb.
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3.4.6.3. Higher kerbs

Higher kerbs, but below maximum size, see §5., should be taken with help of two attendants.

Going down:

1. Remove the footrests.
2. The attendant moves the wheelchair forward approaching the kerb.
3. Lean backwards to reduce the pressure on the front wheels.
4. The attendant holds the handles firmly and uses the tipping aid to keep the front wheels lifted until they have passed the kerb rim.
5. The second attendant grabs the front of the frame and moves backwards while pulling the rear wheels down the kerb.
6. The first attendant releases the pressure on the handles and tipping aid to put the front wheels on the ground.

Going up:

1. Remove the footrests.
2. The first attendant reverses the wheelchair so that rear wheels approach the kerb first.
3. Lean backward to move your centre of gravity to the back.
4. The second attendant grabs the front of the frame and moves forward while pulling/pushing the rear wheels on the kerb. The first attendant lifts and holds the handles firmly to prevent the wheelchair from tipping over.

4. Maintenance

- i** Regular care ensures that your wheelchair is preserved in a perfectly functional condition. For the maintenance manual, refer to the Vermeiren website: www.vermeiren.com.

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.

-  The last page of this manual contains a registration form for the specialist dealer to record each service.
The service frequency depends on the frequency and intensity of use. Contact your dealer to agree to a common timetable for inspection/maintenance/repair.

4.1.1. 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, footplates: 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.

4.1.2. 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 upon with your specialist dealer.

4.1.3. If stored

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..

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).

For instructions on how to change the tyres, see the installation manual.

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 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. In this case, contact your local specialist dealer.

⚠ WARNING

Risk of injuries and damage

- NEVER attempt to repair your 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 wheelchair is designed to have an average lifespan of 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.

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 chair has been modified, damaged, or is severely worn.

Brand	Vermeiren
Product group	Manual wheelchair
Type	V100 XL
Description	Dimensions
Maximum user weight	170 kg
Overall length	1060 mm
Folded length	1060 mm
Overall width	740 mm 770 mm 810 mm
Folded width	350 mm
Overall height	890 mm - 950 m
Folded height (depends on seat height)	890 mm - 950 m
Total mass	21,4 kg
Mass of heaviest part	13,7 kg
Mass of removable parts	
Footrests	1,75 kg
Armrests	1,8 kg
Rear wheels	4,05 kg
Static stability downhill	7°
Static stability uphill	9°
Static stability sideways	18°
Seat plane angle	5°
Effective seat depth	490 mm
Effective seat width	530 mm 560 mm 600 mm
Seat surface height at front edge	470 mm - 530 mm
We reserve the right to introduce technical changes. Measurement tolerance +- 15 mm / 1,5 kg / 1,5°	

Brand	Vermeiren
Product group	Manual wheelchair
Type	V100 XL
Description	Dimensions
Backrest angle	5°
Backrest height	380 mm
Footplate to seat distance	400 mm - 500 mm
Leg to seat surface angle	105°
Footplate angle	80°
Distance between arm pad and seat	220 mm - 240 mm
Front location of arm pad structure	410 mm
Horizontal location of axle (deflection)	20 mm
Minimum turning radius	1616 mm
Diameter of rear wheels	22" 24"
Tyre pressure rear wheels	Max. 3,5 bar
Diameter of front wheels	200 mm
Tyre pressure front wheels	Max. 2,5 bar
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:
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Version: B, 2025-07

Basic UDI-DI: 5415174122106V100XLKD

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