



Motus CV, Motus CS

EN Instructions for use (user)	3
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1 Foreword

INFORMATION

Date of last update: 2021-06-11

- ▶ Please read this document carefully before using the product and observe the safety notices.
- ▶ Obtain instruction from the qualified personnel in the safe use of the product.
- ▶ Please contact the qualified personnel if you have questions about the product or in case of problems.
- ▶ Report each serious incident related to the product to the manufacturer and to the relevant authority in your country. This is particularly important when there is a decline in the health state.
- ▶ Please keep this document for your records.

INFORMATION

- ▶ New information regarding product safety and product recalls as well as the declaration of conformity can be obtained at ccc@ottobock.com or from the manufacturer's service department (see inside or outside of back cover for addresses).
- ▶ You can request this document as a PDF file at ccc@ottobock.com or from the manufacturer's service department (see inside or outside of back cover for addresses). The PDF file can also be displayed in a larger size.

You have received a product that is very versatile for everyday use at home and outdoors.

In order to exclude injuries of any type, familiarise yourself with the handling, functions and intended use of the product before using it. These instructions for use provide you with the related necessary information.

Please note the following in particular:

- All users and/or their attendants must be trained by qualified personnel in the use of the product. In particular, users and/or attendants must be informed of the residual risks with the aid of the safety notices in the instructions for use (user).
- The product was adapted to the needs of the user. Subsequent changes may be made only by qualified personnel. We recommend checking the product settings **once per year** to ensure optimal treatment over the long term. Especially for users with a changing anatomy (for example body dimensions, weight), an adjustment at least **once every six months** is recommended.
- Your product may differ from the models shown. In particular, not all the options described in these instructions for use will be installed on your product.
- The manufacturer reserves the right to make technical changes to the model described in these instructions for use.

2 Product description

2.1 Function

The wheelchair is intended exclusively for transporting one person on the seat.
The wheelchair can be used on solid ground both indoors and outdoors.

2.2 Product overview

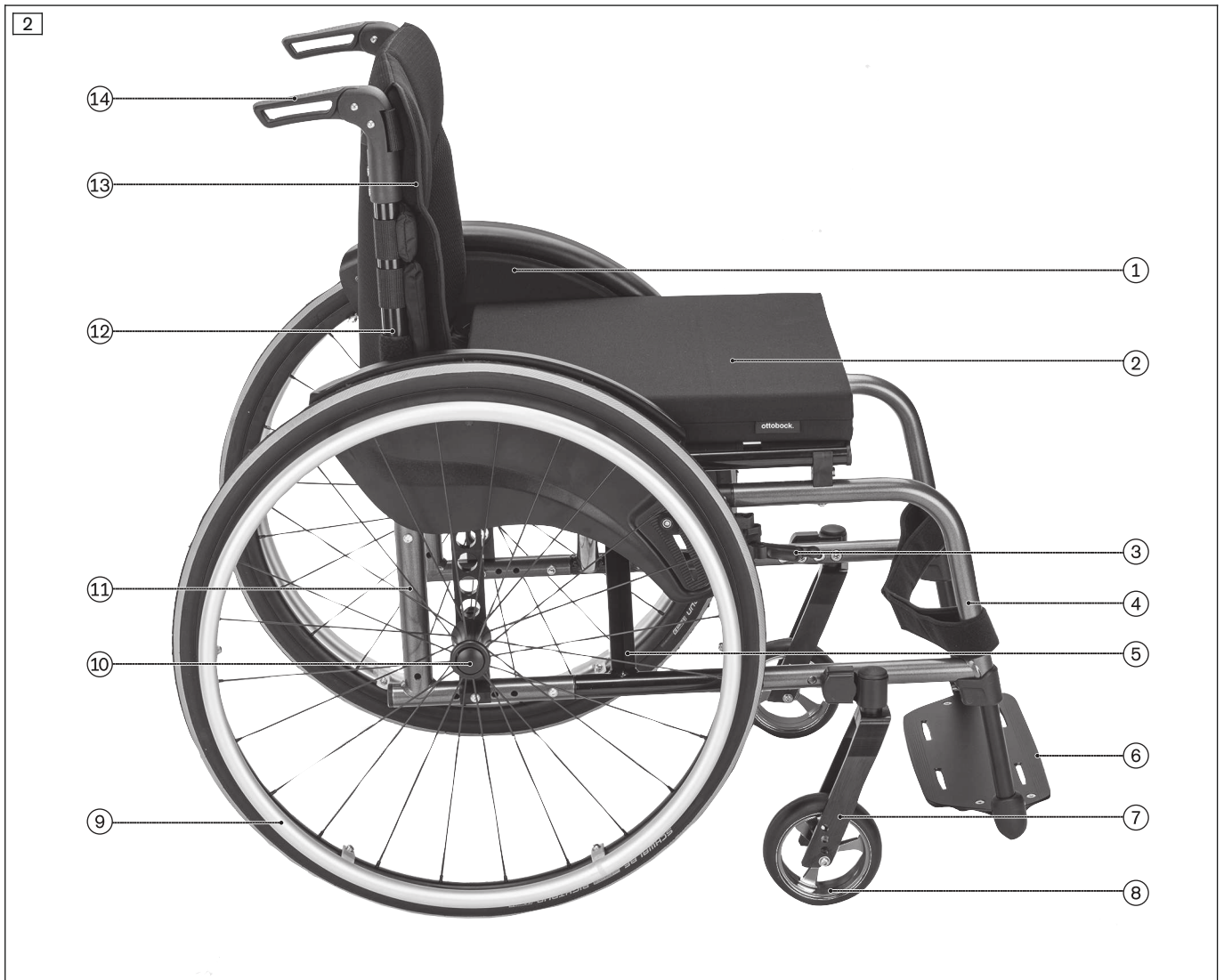


Motus CV

Maximum load: 125 kg (140 kg with double crossbrace)

Thanks to its frame geometry, the wheelchair enables precise leg guidance. The leg supports can be swung away and detached.

1	Side panel	9	Caster wheel
2	Seat/seat pad	10	Drive wheel with handrim
3	Leg support (detachable)	11	Quick-release axle
4	Knee lever wheel lock	12	Rear frame
5	Front frame	13	Back support tube
6	Crossbrace	14	Back support, back support upholstery
7	Foot plate (segmented)	15	Push handle
8	Caster fork		



Motus CS

Maximum load: 125 kg (140 kg with double crossbrace)

Thanks to its closed, rigid frame geometry, the wheelchair exhibits highly active driving characteristics. The leg support remains on the wheelchair.

1	Side panel	8	Caster wheel
2	Seat/seat pad	9	Drive wheel with handrim
3	Scissor wheel lock	10	Quick-release axle
4	Front frame	11	Rear frame
5	Crossbrace	12	Back support tube
6	Foot plate (single-panel)	13	Back support, back support upholstery
7	Caster fork	14	Push handle

3 Intended use

The safe use of the product can only be ensured in case of intended use in accordance with the information contained in these instructions for use. The user is ultimately responsible for accident-free operation.

3.1 Indications for use

The wheelchair is intended for everyday indoor and outdoor use, by the user or an attendant, of people with temporary or permanent limitations of the ability to walk, inability to walk or difficulty standing up.

The product is suitable for users with intact skin whose anatomy (such as body dimensions and weight) permits the intended use of the product.

The wheelchair may only be used with the options listed on the product order form.

Ottobock assumes no liability for combinations with medical devices and/or accessories from other manufacturers outside the modular system.

Combinations based on a combination agreement that have been evaluated for effectiveness and safety are an exception to this.

3.2 Indications

- Minor to pronounced or complete restrictions of mobility

3.3 Contraindications

3.3.1 Absolute Contraindications




- None known

3.3.2 Relative Contraindications

- Failure to meet physical or mental requirements


4 Safety


4.1 Explanation of warning symbols

 WARNING	Warning regarding possible serious risks of accident or injury.
 CAUTION	Warning regarding possible risks of accident or injury.
 NOTICE	Warning regarding possible technical damage.

4.2 Safety instructions for use

Hazards during preparation for use

<p> WARNING</p> <p>Independent modification of settings</p> <p>Serious injuries to the user due to improper changes to the product</p> <ul style="list-style-type: none"> ▶ Do not modify the settings established by the qualified personnel. Only the settings described in the section “Use” in these instructions for use may be adjusted independently. ▶ In case of problems with the settings, please contact the qualified personnel who adjusted your product.
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<p> WARNING</p> <p>Improper handling of packaging materials</p> <p>Risk of suffocation due to neglect of the duty to supervise</p> <ul style="list-style-type: none"> ▶ Packaging materials must be kept out of the reach of children.
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Risk of hand injuries

CAUTION

Pinching on components

Pinching, crushing due to lack of caution in danger areas

- ▶ Do not reach between the drive wheel and wheel lock or drive wheel and side panel when driving the wheelchair.
- ▶ Do not reach into the spokes of the rotating drive wheel.
- ▶ Pay attention not to pinch parts of your body at the wheel lock lever or between the side or frame parts.

CAUTION

Heat development when braking with handrims

Burns due to insufficient hand protection

- ▶ Wear wheelchair gloves when travelling at high speeds.

Hazards while driving

WARNING

Improper use of the wheel lock

Falling due to abrupt braking, rolling away of the wheelchair, damage to the wheel lock

- ▶ Do not use the wheel lock as a driving brake.
- ▶ Apply the wheel lock to prevent the wheelchair from moving on uneven ground or during transfers (e.g. into a car).

CAUTION

Lack of driving experience

Tipping over, falling due to errors in handling the product

- ▶ Practise on level, open ground first.
- ▶ Learn with the support of an assistant how the product reacts to changes in centre of gravity, e.g. downward or upward slopes, inclines or when overcoming obstacles.

CAUTION

Leaning forward in the wheelchair

Tipping over, overturning due to incorrect centre of gravity

- ▶ Do not lean too far out of the wheelchair when trying to pick up objects.
- ▶ Lean well forward with your upper body when climbing gradients, overcoming obstacles on gradients or on ramps. If users cannot lean their upper body forward, accompanying persons must support the wheelchair from behind.

CAUTION

Risky operation

Falling, tipping over backwards due to approaching obstacles incorrectly

- ▶ Push slowly when crossing obstacles (e.g. steps, curbs) and negotiating uphill or downhill slopes and inclines.
- ▶ Never cross obstacles at an angle. Always approach obstacles head on (at an angle of 90°).
- ▶ Raise the front wheels before crossing obstacles.
- ▶ Avoid collisions with obstacles and dropping off curbs/ledges.
- ▶ Avoid riding cross-country.

⚠ CAUTION

Lack of tipping resistance on public transport

Tipping over, user falls, damage to the product due to incorrect positioning

- ▶ When using public transit, always observe the currently applicable legal requirements and the safety notices of the public transit operator.
- ▶ Use the permanently installed seats in the vehicle. If you depend on using your wheelchair as a seat, please use the designated wheelchair spaces and safety securing equipment provided. Always ensure that you are held in place securely.

⚠ CAUTION

Incorrect handling at level crossings

User may fall or tip over due to driving error

- ▶ Only cross railway systems and railway tracks in the designated areas.
- ▶ Negotiate level crossings so the caster wheels of the product cannot get caught in the gap between the rail and the road surface.

⚠ CAUTION

Driving in the dark

Risk of collisions with other traffic participants due to lack of lighting

- ▶ Wear bright clothing or clothing with reflectors.
- ▶ Install active lighting on your product.
- ▶ Ensure that the reflectors on the product are clearly visible.

Hazards when overcoming obstacles

⚠ WARNING

Overcoming steps and obstacles without assistance

Tipping over, falling of the user due to failure to observe transportation instructions

- ▶ Always have accompanying persons help you negotiate steps and other obstacles.
- ▶ Use available facilities (e.g. access ramps or lifts).
- ▶ If such facilities are not available, have 2 assistants carry you over the obstacle.

⚠ WARNING

Improper lifting by attendants

Tipping over, falling of the user due to lifting on components that come loose or are not intended for lifting

- ▶ Only lift the product on permanently welded components (e.g. main frame).
- ▶ Do not lift the product on components installed with screw connections or add-on components.

Hazard in case of broken skin

⚠ CAUTION

Skin damage

Skin damage or pressure points due to overloading

- ▶ Check your skin for intactness before and during use of the product.
- ▶ Pay attention to diligent skin care and pressure redistribution during interruptions in using the product.
- ▶ If skin damage or other problems occur during use, stop using the product. Consult the qualified personnel.

Hazards due to fire, heat and cold

⚠ CAUTION

Extreme temperatures

Hypothermia or burns due to contact with components, failure of components

- ▶ Do not expose the product to any extreme temperatures (e.g. direct sunlight, sauna, extreme cold).
- ▶ Do not leave the product in the immediate vicinity of heaters.

Hazards due to improper use of the product

⚠ WARNING

Overloading

Severe injuries if the product tips over due to overloading, damage to the product

- ▶ Do not exceed the maximum load capacity (see the nameplate and section "Technical data").
- ▶ Please note that certain accessories and add-on components will reduce the remaining load capacity.

⚠ WARNING

Exceeding the service life

Serious injuries due to failure to observe the manufacturer's requirements

- ▶ Using the product beyond the specified expected service life leads to increased residual risk.
- ▶ Observe the specified service life.

⚠ WARNING

Incorrect pushing or pulling of the wheelchair

Risk of falling, tipping over due to user error

- ▶ Only the push handles may be used for pushing or overcoming obstacles. The tip-assist should be used in addition.
- ▶ If a stabiliser bar is installed, it must **not** be used for pulling or pushing.
- ▶ The attendant should make sure that he/she has a secure stance and firm grip (on both sides).
- ▶ In case of damage, have the push handles repaired promptly.

⚠ CAUTION

Use of the product during diagnostic examinations and therapeutic treatment

Impairment of the examination results or the effectiveness of treatment due to interactions of the product with devices that are used

- ▶ Make sure that examinations and treatments are carried out exclusively under the prescribed conditions.

⚠ CAUTION

Uncontrolled driving behaviour, unexpected sounds or odours

Falling, tipping, collision with persons or nearby objects due to defects

- ▶ If any faults, defects or other hazards that can lead to personal injury are detected, the product must be taken out of service immediately. This includes uncontrolled movements as well as sounds that are unexpected or previously not noted or odours that deviate significantly from the state of the product at the time of delivery.
- ▶ Contact the qualified personnel.

NOTICE

Use under incorrect environmental conditions

Damage to product due to corrosion or abrasion

- ▶ Do not use the product in salt water.
- ▶ Make sure that the wheel bearings are not damaged by sand or other particles.

4.3 Side effects

The following side effects may occur during use of the product:

- Neck, muscle and joint pain
- Circulatory disorders, risk of pressure sores

Contact a doctor or therapist in case of problems.

4.4 Further information

INFORMATION

Even in the event of compliance with all applicable guidelines and standards, alarm systems (e.g. in department stores) may respond to your product. Should this happen, remove your product from the area where the alarm was triggered.

INFORMATION

The serial number required for enquiries and ordering spare parts and accessories is found on the nameplate. For explanations of the nameplate, see the section "Nameplate" (see page 12).

4.5 Nameplate and warning labels

4.5.1 Nameplate

The nameplates are found on the frame.

Label	Meaning
	A Manufacturer's product name
	B CE marking
	C Maximum load (see section "Technical data")
	D Manufacturer information/address
	E Serial number ¹⁾
	F Manufacturing date ²⁾
	G Symbol for medical device
	H WARNING! Read the instructions for use before using the product. Observe important safety-related information (e.g. warnings, precautions).
	I Manufacturer's reference number for the product variant
	J Serial number (PI) ^{3),1)}
	K Global Trade Item Number (DI) ⁴⁾

¹⁾ YYYY = year of manufacture; WW = week of manufacture; PP = production site; XXXX = sequential production number

²⁾ YYYY = year of manufacture; MM = month of manufacture; DD = day of manufacture

³⁾ UDI-PI to GS1 standard; UDI = Unique Device Identifier, PI = Product Identifier

⁴⁾ UDI-DI to GS1 standard; UDI = Unique Device Identifier, DI = Device Identifier

4.5.2 Warning labels

Label	Meaning
	Fixation point to attach the product in vehicles for transporting persons with reduced mobility

5 Delivery

5.1 Scope of delivery

- Wheelchair ready for use
- Instructions for use (user)
- Instructions for use for accessories (depending on equipment)

5.2 Options

The standard model can be fitted to the user's personal requirements thanks to a large range of options. For use of these options: see page 14 ff.

5.3 Storage

5.3.1 Storage during daily use

The product should always be stored so it is protected against external influences.

5.3.2 Storage during extended disuse

The product must be stored in a dry place. Specific information for extended storage: see page 46.

It is not necessary to disassemble the product.

Maintain sufficient clearance from sources of heat. If the product is parked for an extended period of time or the tyres overheat (e.g. in the vicinity of radiators or in case of exposure to strong sunlight behind glass), the tyres may become permanently deformed.

During extended storage, the knee lever wheel lock on wheelchairs with PU tyres (= tubeless tyres) must be released since tyre deformation may otherwise result.

6 Preparing the product for use

6.1 Assembly

⚠ CAUTION

Exposed pinch points

Crushing, pinching due to incorrect handling

- ▶ When folding the wheelchair out or together, only grip by the specified components.

⚠ CAUTION

Failure to verify readiness for use before putting into operation

Tipping, falling due to incorrect adjustment or installation

- ▶ Before you start using the wheelchair for the first time, check the chosen wheelchair settings with the support of qualified personnel.
- ▶ After every assembly, check for proper mounting of the drive wheels. The quick-release axles must be securely locked in the receiver bushings.
- ▶ Pay particular attention to the stability against tipping, free running of the drive wheels and correct function of the brakes/wheel locks.

INFORMATION

On the topic of disassembly/transport: see page 37.

It takes just a few simple steps to prepare the wheelchair for use:

- 1) Attach the drive wheels to the quick-release axle mounting (see fig. 3). The quick-release axles must not be removable after releasing the push-button.
INFORMATION: With "drive wheel for one-handed operation" option: see page 29.
- 2) Loosen the safety strap (see fig. 4).
- 3) Unfold the wheelchair (see fig. 5, see fig. 6).
INFORMATION: While you are next to the wheelchair, tip it slightly toward you and press on the edge of the seat upholstery closest to you.
- 4) **Only with "drive wheel for one-handed operation" option:** Insert the telescoping rod (see page 29).
- 5) **If necessary:** Attach the leg supports (see page 16).
- 6) Fold down the foot plates. With a single-panel foot plate, make sure the foot plate support is locked into the mounting (see fig. 7).
- 7) Fit the seat cushion (see fig. 8). The seat cushion is secured against sliding by being pressed onto the hook-and-loop closure.





7 Use

7.1 Further instructions for use

- Attaching loads (e.g. backpacks) can adversely affect stability. Therefore, suspending additional loads on the wheelchair is not permitted.
- The recommended overall width for manual wheelchairs in an operational state is **700 mm**. This specification should ensure unhindered use of escape routes, for example. Note that the product dimensions can exceed the recommended values for dimensions and the movement range of manually powered wheelchairs in versions with very large seat widths (for more information see see page 46 ff.).
- The wheelchairs in this series comply with the minimum technical requirements for wheelchairs transportable by train. Please note that it is possible that not every individual wheelchair will meet the minimum requirements due to the variation in designs (please see see page 47 for further details).

7.2 Getting in and transferring

CAUTION

Incorrect caster wheel position when leaning forward in the wheelchair

Tipping over, falling due to incorrect caster wheel positioning

- ▶ Prior to activities that require you to bend forward in the wheelchair (e.g. tying your shoes), maximise the stability of the wheelchair.
- ▶ In order to do so, push the wheelchair backwards until the caster wheels turn forward.

Users can choose the method for getting into and out of the wheelchair which is most suitable for them. The respective procedure should be discussed and practised with a therapist.

As a rule, the frame tubes, seat bottom or side panels can be used as supports for getting into the wheelchair.

If getting in independently is not possible, transferring or getting in always has to be performed with the help of an assistant. The manufacturer also offers transfer aids for getting in, such as transfer boards.

7.3 Legrests

⚠ CAUTION

Improper use of the legrests

Tipping over, falling due to errors in handling the product

- ▶ Fold up the footplates before getting in.

⚠ WARNING

Reduced ground clearance with the "foot-propelled chair" option

Tipping over, falling due to getting caught on obstacles

- ▶ Please note that wheelchairs with the "foot-propelled wheelchair" option might fall below the minimum ground clearance of **40 mm** depending on the selected settings for the lower leg length and the front seat height.
- ▶ Adjust your driving to the reduced ground clearance and exercise particular caution with obstacles on the ground e.g. steps, curbs and thresholds.

The leg supports support the user's feet.

The height of the leg support has been adjusted by qualified personnel to the length of the user's lower legs.

The angle of the foot support has been set by the qualified personnel so that it allows the ankles to rest in a comfortable position.

Different leg support types and other accessories may be installed depending on the order:

"Single-panel, angle-adjustable" leg support (see fig. 9)

Leg support for the Motus CS. The depth of the foot supports is **140 mm**. The leg support can be folded up to make getting into the wheelchair easier.

"Segmented, angle-adjustable" leg support (see fig. 10)

Detachable leg support for the Motus CV. Each leg support can be folded up individually to make getting into the wheelchair easier.

"Elevating" leg support (see fig. 11)

Detachable leg support for the Motus CV. The leg support allows positioning of the leg at different angles.

Amputation leg support (see fig. 12)

Detachable leg support for the Motus CV. Alternative for installation on an "elevating" leg support.





7.3.1 Removing and attaching the leg supports

The leg supports on the Motus CV can be detached to make it easier for the user to get in and out.

Detaching the “segmented, angle-adjustable” leg support

- 1) Fold the foot plate up (see fig. 13).
- 2) Pull back the release lever (see fig. 14).
- 3) Fold the leg support out by **90°** and detach it (see fig. 15, item 1). Now the leg support can be lifted up and off.

Attaching the "segmented, angle-adjustable" leg support

- 1) Hold the leg support **90°** out to the side and insert it into the leg support mounting (see fig. 16).
- 2) Swing the leg support into the direction of travel until it engages.
- 3) Fold the foot plate down.

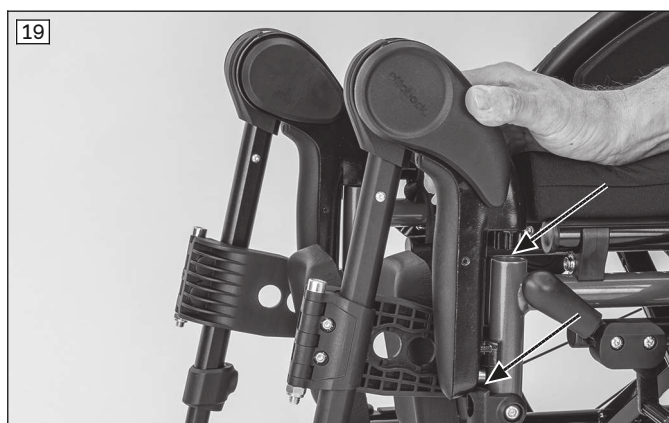
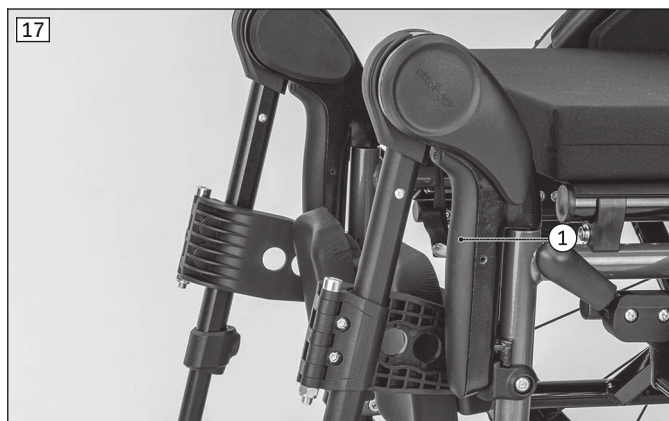


Detaching the “elevating” leg support/amputation leg support

- 1) Activate and hold the release lever (see fig. 17, item 1).
- 2) Pull the leg support up to detach it (see fig. 18).

Attaching the "elevating" leg support/amputation leg support

- 1) Activate and hold the release lever.
- 2) Insert the leg support into the leg support mounting (see fig. 19).
- 3) Let go of the release lever when the leg support mounting engages audibly.



7.3.2 Folding the foot plate up and down

Segmented foot plate

- Hold the foot plate by the edge and fold it up or down (see fig. 13).

Folding up and swinging away the single-panel foot plate

- 1) Disengage the foot plate on one side and fold it up to the side (see fig. 7).
- 2) Optionally the foot plate can be swung away to the side after it is folded up (see fig. 20).



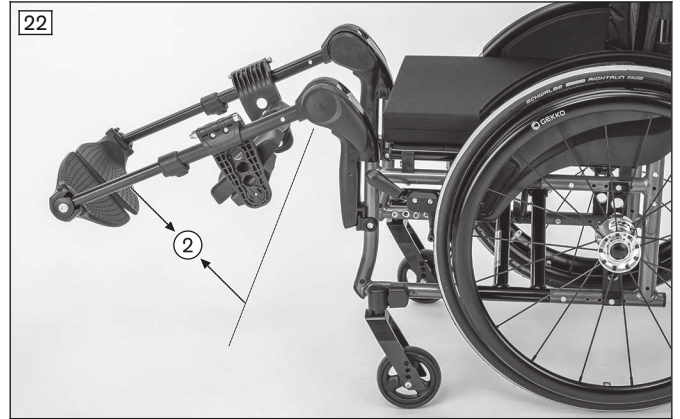
Folding down the single-panel foot plate

- Fold down the foot plate, making sure the foot plate support locks into the mounting (see fig. 7).

7.3.3 Adjusting the angle of the elevating leg support

The following steps also apply to the amputation leg support (see fig. 12).

- 1) Turn the release lever upwards to the stop (see fig. 21, item 1).
Alternative: The leg support can also be elevated without operating the release lever.
 - 2) Simultaneously move the leg support to the desired angle (see fig. 22, item 2).
 - 3) Turn the release lever back.
- The leg support will automatically snap into place in the next free position.



7.3.4 Removing and fastening the calf strap

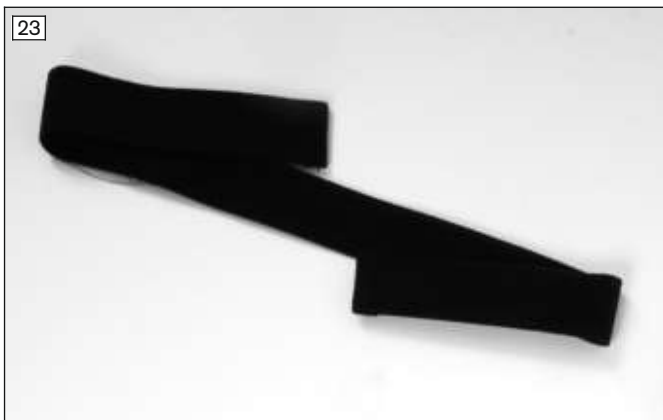
The calf strap offers additional support for the user's legs. It also prevents the feet from sliding off the foot plate into the danger area. The calf strap can be removed for cleaning.

Fastening the calf band

- 1) Open all hook-and-loop closures (see fig. 23).
- 2) **Single-panel foot plate:** Pass the calf strap around the frame tubes and fasten the hook-and-loop (see fig. 24).
- 3) **Segmented foot plate:** Pass the calf strap around the frame tube (see fig. 25, item 1), thread it through the eyelet on the side of the foot plate and fasten it with hook-and-loop (see fig. 25, item 2; see fig. 26).
- 4) Adjust the length and fasten the hook-and-loop closures.

Removing the calf band

- 1) Open all hook-and-loop closures.
- 2) Remove the calf strap.





7.3.5 Adjusting the leg supports

Further adjustments may be made only by qualified personnel.

7.4 Seat and back upholstery

⚠ WARNING

Seat cushions and back support pads may ignite

Burns due to user error

- ▶ The seat and back support upholstery as well as seat cushions, padding and covers fulfil the normative requirements for flame resistance. However, they may still ignite if fire is handled improperly or negligently.
- ▶ Keep away from all ignition sources, especially lit cigarettes.

⚠ CAUTION

Wear of the seat and back upholstery

Loss of functionality due to prohibited continued use

- ▶ Have the seat and back upholstery replaced immediately in case of damage.

The product is equipped with seat and back upholstery. Hook-and-loop fasteners on the seat upholstery are used to attach the seat cushion. The seat cushion ensures pressure relief during use of the wheelchair. It was chosen by qualified personnel according to the needs of the user.

7.4.1 Removing and fastening the seat cushion

The seat cushion can be removed for cleaning.

- 1) Secure the seat cushion against sliding on the seat upholstery by pressing it onto the hook-and-loop fastener (see fig. 8).
- 2) To detach the seat cushion, loosen it from the hook-and-loop fastener of the seat upholstery.

7.4.2 Removing and fastening the back support pad

7.4.2.1 Back upholstery, adaptable

The "adaptable" back support pad can be detached from the wheelchair for cleaning.

Detaching the back support pad

- 1) Detach the seat cushion (see fig. 8).
- 2) Pull the flap of the back support pad off the seat upholstery (see fig. 27).
- 3) Detach the back support pad from the hook-and-loop straps of the back support upholstery (see fig. 28).

Attaching the back support pad

- 1) From the rear, place the edge of the back support pad on the upper hook-and-loop strap (see fig. 29).
- 2) Fold down the back support pad and secure it to the upholstery straps with the hook-and-loop fasteners (see fig. 28).
- 3) Pull the hook-and-loop section of the flap forward and attach it to the seat upholstery (see fig. 30).



7.4.2.2 Back upholstery, standard

The "standard" back support upholstery (see fig. 31) is only used with the "angle-adjustable back support" option (see page 20).



7.5 Backrest

⚠ WARNING

Incorrect use of back support angle adjustment

Falling, tipping over due to operation without anti-tipper

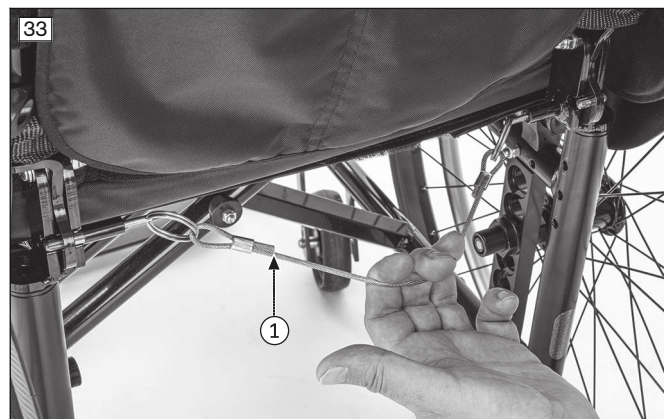
- ▶ Note that adjusting the back support angle shifts the centre of gravity. Only use the back support angle adjustment with the anti-tipper activated.
- ▶ Drive in street traffic only with a vertical back support.

The product can be equipped with a fixed, angle-adjustable or folding back support.

Angle-adjustable back support

With this option, the back support angle is continuously adjustable from **90° to 120°** in increments of **10°** (see fig. 32).

- 1) Pull the cable of the back release mechanism until the locking pins release the angle adjustment (see fig. 33, item 1).
- 2) Move the back support to the desired position.
- 3) Release the cable. Ensure that the locking pins securely engage on both sides.



Folding back support

With this option, the back support can be folded down to the rear.

- 1) Press or pull the two release levers on the back support at the same time (see fig. 34, item 1).
- 2) Fold the back support down to the rear (see fig. 35; see fig. 36).
- 3) Fold the back support up again so the release levers securely engage on both sides.



7.6 Side panels

⚠ CAUTION

Pinching at the side panels

Pinching, crushing due to lack of caution in danger areas

- ▶ Pay attention not to pinch parts of your body between the side panel or frame parts.

The side panels protect the user and his/her clothing from getting dirty.

If armrests have been installed on the wheelchair, they offer the user additional support for the forearms.

The wheelchair can be equipped with various side panels:

Side panel with protection against cold; side panel with splash guard and protection against cold (see fig. 37); **carbon side panel with splash guard** (see fig. 38)

Many wheelchair users are familiar with the problem of clothes coming into contact with the drive wheels and getting dirty. The clothing guard prevents this. It is horizontally and vertically adjustable, so it can be adapted to the position of the drive wheel.

These side panels are permanently mounted.



“Plastic, plug-on” side panel (see fig. 39)

These side panels can be detached for getting into or out of the wheelchair. The height of the forearm support can be adjusted.



Side panel with arm pad short; side panel with arm pad long, depth-adjustable (see fig. 40)

These side panels can be swung away to the rear and detached for transfer. The height and depth of the forearm support on the side panel with arm pad long, depth-adjustable can be adjusted without using tools.



"Padded" arm support (see fig. 41)

These arm supports are height-adjustable, swing-away and detachable.



7.6.1 Removing the side panels

INFORMATION

Side panels with permanent screw connections cannot be removed.

To make getting into the wheelchair easier and for transportation, the "plastic, plug-on" side panels, the side panels with arm pad short and the side panels with arm pad long, depth-adjustable can be detached.

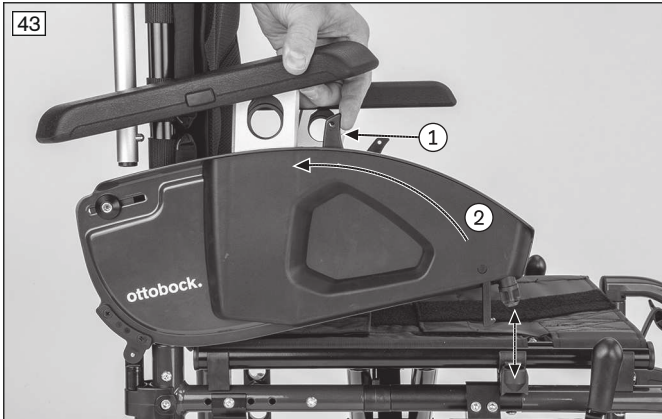
Detaching/attaching the "plastic, plug-on" side panels

- 1) Pull the side panel out of the guides of the side panel mounting (see fig. 42).
- 2) After getting in, slide the side panel back into the side panel mounting.



Detaching/attaching the side panels with arm pad short and side panels with arm pad long, depth-adjustable

- 1) Pull the side panel release lever back (see fig. 43, item 1) and fold the side panel up by about 90° (see fig. 43, item 2).
- 2) Turn the side panel towards the back support (see fig. 44, item 1) and pull it out of the side panel mounting (see fig. 44, item 2).
- 3) Turn the side panel towards the back support and insert it into the side panel mounting (see fig. 44).
- 4) Rotate the side panel parallel to the seat surface and fold it down.
- 5) Ensure that the side panel engages audibly in the mounting on the frame tube.



7.6.2 Adjusting the forearm supports

Side panel with protection against cold; side panel with splash guard and protection against cold; carbon side panel with splash guard

The height of these side panels cannot be adjusted.

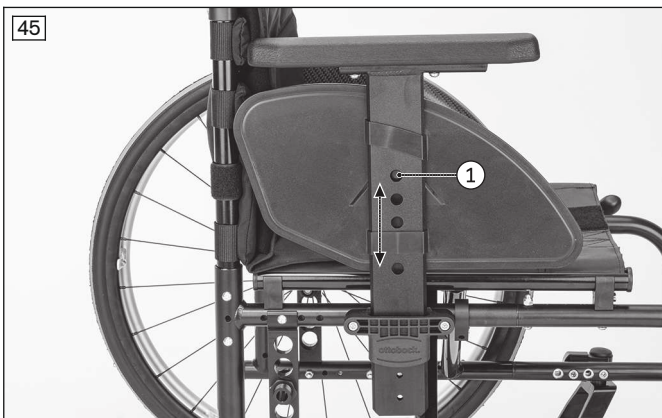
These side panels can be combined with a padded arm support.

“Plastic, plug-on” side panel

It is best to detach the side panel entirely to adjust the height of the forearm support (see page 23).

- 1) Use a ballpoint pen or screwdriver to push in the counter-sunk locking button (see fig. 45, item 1).
- 2) Move the forearm support to the desired position until the locking button re-engages. Then fully insert the side panel back into the mounting on the wheelchair.

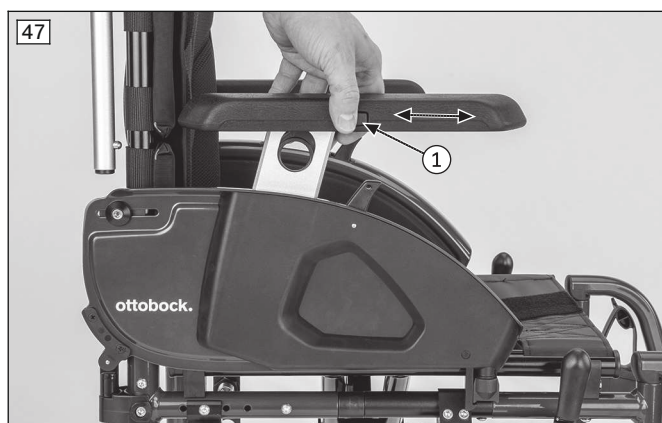
CAUTION! The locking button is intentionally counter-sunk to prevent accidental operation. Always use an object to press the locking button, never your fingers.



Side panel with arm pad short; side panel with arm pad long, depth-adjustable

- 1) **Height adjustment of the forearm support:** Pull the release lever in the round opening of the side panel upwards and adjust the height (see fig. 46, item 1). Let go of the release lever. The forearm support locks into place automatically.

- 2) **Depth adjustment of the forearm support (only on side panel with arm pad long, depth-adjustable):**
Press the release button in the forearm support and adjust the depth (see fig. 47, item 1). Let go of the release button. The forearm support locks into place automatically.



"Padded" arm support

The height of this arm support can be adjusted to match the user's requirements by qualified personnel. Subsequent adjustments may be made only by qualified personnel.

7.6.3 Detaching the "padded" arm support

To make getting into the wheelchair easier and for transportation, the arm supports can be folded away or detached.

- 1) Pull the arm supports up out of the holders (see fig. 48).
- 2) Fold the arm supports away by **90°** or detach them (see fig. 49).
- 3) After getting in, slide the arm supports back down into the holders.



7.6.4 Adjusting an arm support with swivel unit

INFORMATION

After adjusting the swivel unit, please always make sure that the lock pins have safely snapped in place.

The swivel unit allows the support angle and the rotation setting of an arm support to be adjusted individually.

Adjusting the support angle

- 1) Pull the release button outwards (see fig. 50, item 1).
- 2) Lift up the arm support at the front end and adjust it to the desired angle (see fig. 50, item 2).
- 3) Let go of the release button. The arm support will be secured in its position.

Adjusting the rotation setting in 15° increments

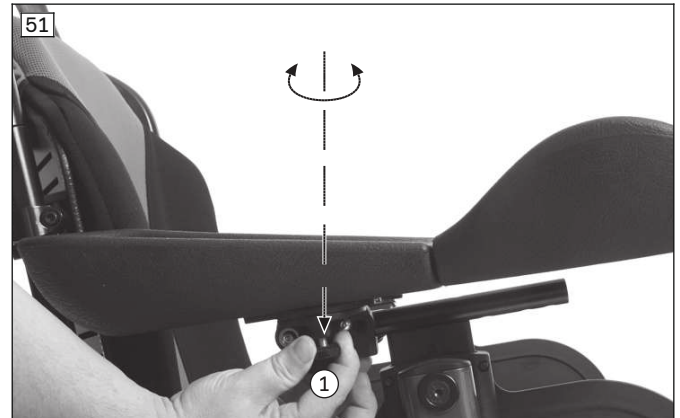
- 1) Pull the release button downwards (see fig. 51, item 1).
- 2) Move the arm support to the desired rotation setting (see fig. 51, item 2).
- 3) Let go of the release button. The arm support will be secured in its position.

Continuously adjusting the rotation setting

- 1) Pull the release button downwards (see fig. 51, item 1).
- 2) Turn the release button 90° (not pictured). The arm support can be rotated freely in this position.
- 3) Move the arm support to the desired rotation setting (see fig. 51, item 2).
- 4) Let go of the release button. The arm support will be secured in its position.

Adjusting the depth of the arm support

- 1) Loosen the Allen head screws under the arm support (not pictured).
- 2) Slide the arm support to the desired depth.
- 3) Re-tighten the Allen head screws under the arm support.



7.7 Push handles

The push handles make pushing the wheelchair easier for the attendant.

Some of the push handle designs allow the height to be adjusted to suit the needs of the attendant.

7.7.1 Adjusting the height of the push handles

The height of the push handles on the wheelchair (“telescoping” push handle: see fig. 52; “height-adjustable, removable” push handle: see fig. 53) can be adjusted to make pushing easier for the attendant.

- 1) Release the clamping lever.
 - 2) Adjust the height of the push handle.
 - 3) Close the clamping lever tightly.
- Both push handles must be adjusted to the same height.



7.7.2 Removing the push handles

Push handles of the “height-adjustable, removable” type can be removed from the back support tube when needed.

Removing/installing the push handles

- 1) Release the clamping lever (see fig. 54, item 1).
- 2) Push in the tripod spring (see fig. 54, item 2) and pull the push handle up and out of the adapter (see fig. 54, item 3).

- 3) To install, push in the tripod spring again and insert the push handle into the adapter.
 - 4) Firmly close the clamping lever (see fig. 54, item 1).
- Both push handles must be installed at the same height.



7.7.3 Folding the push handles

The folding push handles can be folded down by **90°**.

Folding the push handle

- 1) Press the push handle release buttons on both sides (see fig. 55).
- 2) Fold the push handle down by **90°**.

CAUTION! Make sure the fingers are not pinched between the push handle and back support.

Unfolding the push handles

- 1) Fold the push handle up by **90°**.
- 2) Allow the push handle to audibly lock in place in the active pushing position.



7.8 Stabiliser bar

The stabiliser bar between the push handles increases the wheelchair's stability, especially in case of high loads (see fig. 56). It has to be opened before folding the wheelchair.

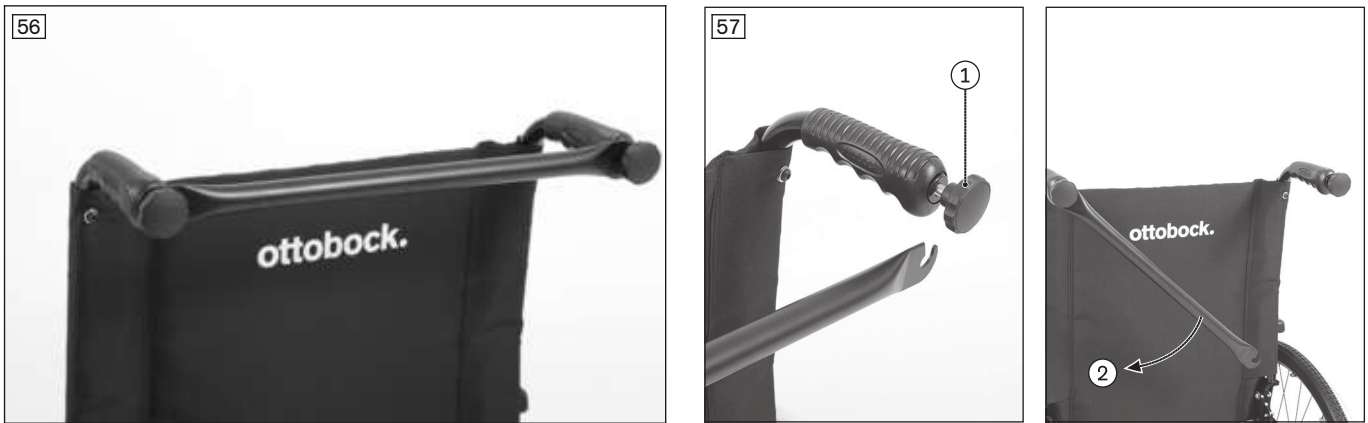
Please note: Using the stabiliser bar for pushing and pulling the wheelchair is not permitted. Always use the push handles for this purpose.

Opening the stabiliser bar

- 1) Open the star handle on the right side (see fig. 57, item 1).
- 2) Fold the stabiliser bar down (see fig. 57, item 2).

Closing the stabiliser bar

- 1) Fold the stabiliser bar up until the opening is against the screw of the star handle.
- 2) Hand-tighten the star handle.



7.9 Drive wheels

⚠ WARNING

Improper assembly of removable wheels

Tipping, falling over of the user due to wheels coming off

- ▶ After each assembly, verify the proper fit of the removable wheels. The quick-release axles must be firmly locked in the wheel attachment.

⚠ CAUTION

Incorrect removal/attachment of the wheels

Tipping, falling due to incorrect installation

- ▶ The user is not permitted to sit in the wheelchair during wheel replacement.
- ▶ For changing wheels, set the wheelchair onto a solid surface.
- ▶ To change the wheels, secure the wheelchair against tipping over or rolling away.
- ▶ If the drive wheel does not lock securely or has too much sideways play, contact the qualified personnel promptly.

⚠ CAUTION

Defective tyres

Accidents/falling due to poor traction, reduced braking force or lack of manoeuvrability

- ▶ Ensure that the tyres have sufficient tread depth.
- ▶ Replace the drive wheels in case of tyre damage (tread surface extends up to **5 mm** to the edge of the tyre, cracking) or damage on the rim.

⚠ CAUTION

Reaching into exposed drive parts

Crushing, pinching due to incorrect handling

- ▶ Do not reach between the drive wheel and wheel lock or drive wheel and side panel when driving the product.
- ▶ Do not reach into the spokes of the rotating drive wheel while riding in the product.

⚠ CAUTION

Heat development when braking with handrims

Burns due to insufficient hand protection

- ▶ Wear wheelchair gloves when travelling at high speeds.

The wheelchair is moved, steered, braked and stopped with the help of the handrims on the drive wheels. To make transport easier, drive wheels with quick-release axle can be taken off the wheelchair.

7.9.1 Removing and mounting the drive wheels

- 1) Release the wheel lock.
- 2) Grip the area between the spokes near the hub with your fingers.
- 3) Use your thumb to press in the push-button on the quick-release axle (see fig. 3).

- 4) Detach or attach the drive wheel.

After mounting: It must not be possible to detach the drive wheels after releasing the push-button on the quick-release axle.

7.9.2 Rear wheel with one-handed operation (double push rings)

The wheel set for one-handed operation allows hemiplegics or unilateral amputees for example to operate the wheelchair with one hand (see fig. 58).

- **Using the outer and inner handrim together:** Both wheels are driven together. The wheelchair drives straight ahead.
- **Using only the outer handrim:** Only the drive wheel is moved. The wheelchair can be steered with forward, stopping or backward movements of the handrim.

The one-hand drive is supplied with special quick-release axle mountings and a telescoping rod.

Using drive wheels for one-handed operation

- 1) Use your thumb to press in the push-button on the quick-release axle (see fig. 3).
- 2) Attach the drive wheels for one-handed operation to the quick-release axle mounting (see fig. 59). The quick-release axles must not be removable after releasing the push-button.
- 3) Insert the telescoping rod. To do so, set one side of the telescoping rod onto the wheel pivot protruding from the inside of the quick-release axle mounting (see fig. 60).
- 4) Compress the telescoping rod and set the other end of the rod onto the second wheel pivot.

Detaching drive wheels for one-handed operation

- 1) Compress the telescoping rod and remove it (see fig. 60).
- 2) Use your thumb to press the push-button on the quick-release axle and detach the drive wheel (see fig. 59).



7.9.3 Spoke protector

The spoke protector prevents the fingers from getting caught in the wheel spokes.

7.10 Caster wheels and caster forks

⚠ WARNING

Failure of caster wheels or caster forks

Falling, severe injury due to the wheelchair tipping over

- ▶ Regularly inspect the caster wheels and caster forks for damage.
- ▶ Regularly clean and oil the caster wheel axles and the threaded axles on the caster forks, especially in case of stiffness.
- ▶ Inform the responsible qualified personnel in case of permanent changes to the driving characteristics.

⚠ CAUTION

Incorrect caster wheel position when leaning forward in the wheelchair

Tipping over, falling due to incorrect caster wheel positioning

- ▶ Prior to activities that require you to bend forward in the wheelchair (e.g. tying your shoes), maximise the stability of the wheelchair.
- ▶ In order to do so, push the wheelchair backwards until the caster wheels turn forward.

The combination of caster wheels and caster forks ensures the ability to hold a straight line and navigate bends securely.

The caster wheels and caster forks have been chosen by the qualified personnel according to the needs of the user.



7.10.1 Approach in case of stiffness

In case of stiffness, the caster wheel axles should be cleaned and oiled.

Oiling the caster axle

- 1) Remove dirt (such as hairs) from the caster axle between the caster wheel and caster fork.
- 2) Lubricate the caster axle between the caster wheel and caster fork with a few drops of thin, resin-free oil (sewing machine oil).

7.11 Wheel locks

The wheel locks secure the parked wheelchair against rolling away.

Different wheel lock types may be installed depending on the order.

7.11.1 Using the wheel locks

⚠ WARNING

Improper use of the wheel lock

Falls due to abrupt braking, rolling away of the product, crushing of hands

- ▶ Do not use the wheel lock as a driving brake.
- ▶ Always engage the wheel lock on both sides.
- ▶ Engage the wheel lock to prevent the product from moving when it is parked on uneven ground or during transfers (e.g. into a car).
- ▶ Do not reach between the rear wheel and the wheel lock when driving the product.
- ▶ Ensure that the knee lever wheel lock is properly adjusted (max. **5 mm** gap between wheel lock bolt and tyre). The wheel lock bolt must lock the drive wheel securely when stationary.
- ▶ Please contact the qualified personnel who adjusted your product for readjustment of the wheel lock.

Activating/deactivating the knee lever wheel lock

- 1) Push the handle of the knee lever wheel lock forward (see fig. 62).
→ The wheel lock bolt secures the wheel.
- 2) Pull the wheel lock lever upwards (see fig. 63).
→ The wheel lock lever releases the wheel.



Activating/deactivating the knee lever wheel lock for one-handed operation

This wheel lock is recommended especially for hemiplegics. It can be used either on the right or left side and ensures the safe locking of both drive wheels with a pull-wire system.

INFORMATION

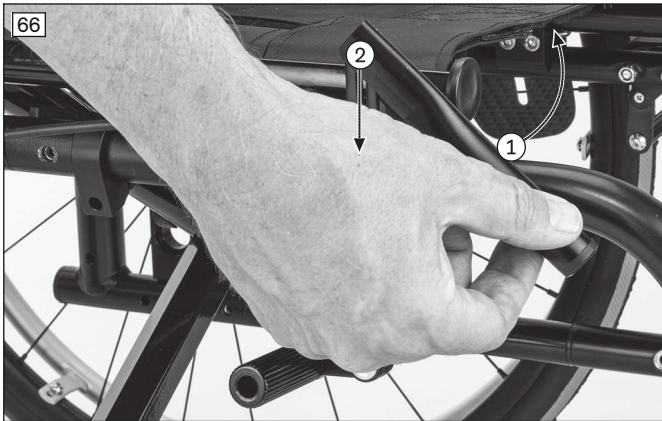
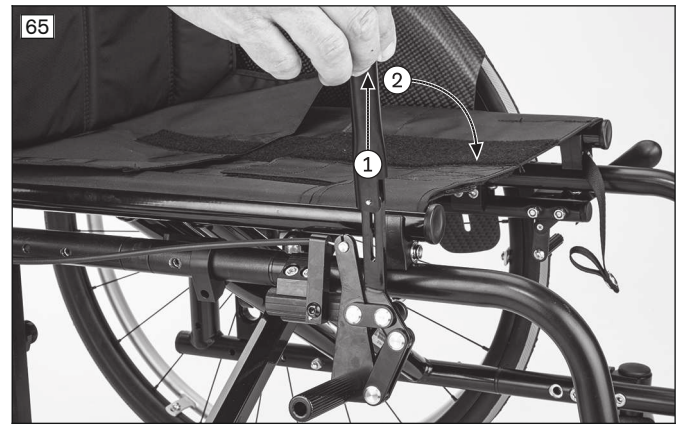
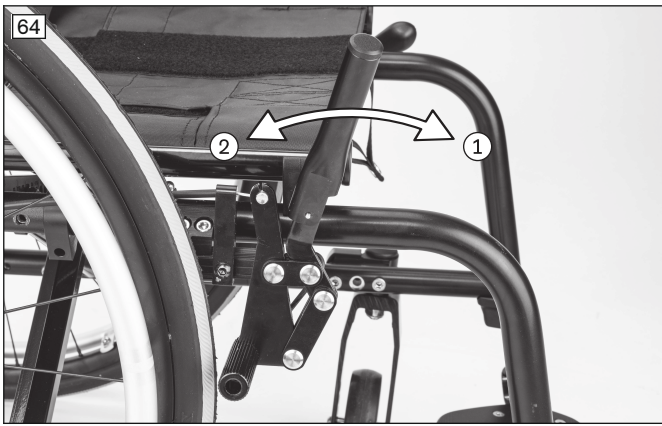
Note that the wheel lock lever extension must always be attached when releasing or engaging the wheel lock.

- 1) Push the handle of the knee lever wheel lock forward (see fig. 64, item 1).
→ The wheel lock bolt secures the wheel.
- 2) Pull the wheel lock lever upwards (see fig. 64, item 2).
→ The wheel lock lever releases the wheel.

INFORMATION

The wheel lock lever extension can be folded over for easier transfer to the wheelchair.

- 1) Pull the handle of the wheel lock lever extension up and fold it away to the front (see fig. 65, item 1/2).
- 2) To engage the handle of the wheel lock lever extension, pull up on the handle and then push it down onto the wheel lock lever (see fig. 66, item 1/2).



Activating/deactivating the scissor wheel lock (Outfront scissor wheel lock)

- 1) Reach under the seat and pull the handle of the scissor wheel lock towards the back from the side (see fig. 67).
→ The wheel lock bolt secures the wheel.
- 2) Pull the handle of the scissor wheel lock forwards to unfold (see fig. 68).
→ The wheel lock lever releases the wheel.



7.11.2 Drum brake

The drum brakes allow the attendant to slow the wheelchair easily and safely by activating the wheel lock lever on the push handles.

Activating/deactivating the drum brake

- 1) Pull the brake lever (see fig. 69, item 1).
- 2) If necessary, secure the brake lever by additionally activating the lock slide (see fig. 69, item 2).
- 3) Deactivate the brake by activating the brake lever again or pressing the lock slide.

The drive wheels can still be detached via the quick-release axles when the brake lever is released.



7.11.3 Using the wheel lock lever extension

The wheel lock lever extension can be folded over for easier transfer to the wheelchair.

- 1) Pull the handle of the wheel lock lever extension up and fold it away to the front (see fig. 65, item 1/2).
- 2) To engage the handle of the wheel lock lever extension, pull up on the handle and then push it down onto the wheel lock lever (see fig. 66, item 1/2).

7.12 Anti-tipper/tip-assist

⚠ WARNING

Anti-tipper not activated

Tipping over, falling of the user due to improper operation of a safety device

- ▶ Ensure that an installed anti-tipper is activated before travelling over obstacles and on inclines.
- ▶ The anti-tipper has to engage audibly prior to use. Proper engagement must be checked by the user or an attendant.
- ▶ The use of an anti-tipper is highly recommended for transfemoral amputees and inexperienced users.

⚠ WARNING

Incorrectly adjusted anti-tipper

Tipping over, falling of the user due to errors in handling the product

- ▶ If only one attendant helps in overcoming steps, the attendant must first deactivate the anti-tipper so that it cannot collide with the steps during transport.
- ▶ The attendant must activate the anti-tipper again after overcoming the steps.

⚠ WARNING

Incorrectly adjusted anti-tipper

Risk of falling as a result of incorrectly adjusted anti-tipper.

- ▶ The anti-tipper may only be adjusted by qualified personnel.

The anti-tipper prevents the wheelchair from tipping backwards when overcoming obstacles and going uphill. It is set for a maximum ground clearance of **50 mm** and so that the anti-tipper rollers, as a minimum, project fully beyond the largest diameter of the drive wheels.

The tip-assist makes overcoming obstacles easier for the attendant.

7.12.1 Activating and deactivating the anti-tipper

A mounted anti-tipper must always be active.

When overcoming obstacles (such as steps and curbs that are not lowered) **upwards**, the anti-tipper rollers contact the ground.

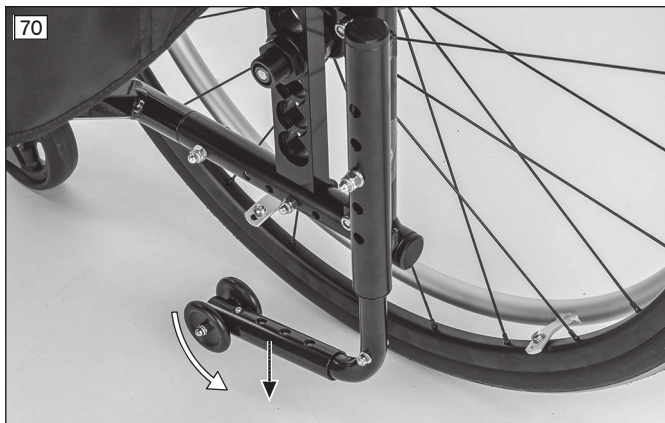
When overcoming obstacles (such as steps and curbs that are not lowered) **downwards**, the anti-tipper has to be deactivated by the user or attendant to avoid damaging the anti-tipper.

Activation

- 1) Press the anti-tipper down with the hand or foot (see fig. 70).
- 2) Swing the anti-tipper back and allow it to engage (see fig. 71).

Deactivation

- 1) From above, press on the anti-tipper with the hand or foot until it disengages (see fig. 72).
- 2) Rotate the anti-tipper forwards by **180°** and release it.



7.12.2 Using the tip-assist

The tip-assist makes it easier for an attendant to tip up the wheelchair, e.g. to cross a step.

- 1) At an obstacle, place one foot on the tip-assist and push down (see fig. 73).
- 2) Slightly tip the wheelchair by simultaneously pressing down on the push handles.



7.13 Crutch holder with hook-and-loop fastening strap

The crutch holder with hook-and-loop fastening strap allows crutches to be attached to the wheelchair.



7.14 Wheelbase extension

INFORMATION

A long wheelbase setting is essential for transfemoral amputees.

This option offers the user a permanently large wheelbase (not illustrated).

This allows characteristics such as particularly high wheelchair stability for especially safety-conscious or inexperienced users.

The wheel lock on the wheelchair has been installed by qualified personnel and can continue to be used

7.15 Lap belt (seat belt)

CAUTION

Incorrectly adjusted lap belt

Malpositions, illness, falling of the user due to installation/adjustment errors

- ▶ Do not modify the settings established by the qualified personnel. In case of problems with the adjustments (unsatisfactory sitting position) please contact the qualified personnel who fitted the product.
- ▶ The lap belt has to fit closely but not too tightly so the user is not injured. It should be possible to slide two fingers comfortably between the belt and thigh.
- ▶ Have the settings of the belt system checked regularly. Adjustments may be required due to the growth of the user or because of changes in the course of the disease or different clothing.

The lap belt (seat belt) prevents the user from slipping and supports positioning.

It is installed on the product by qualified personnel if needed and adapted to the requirements of the user.

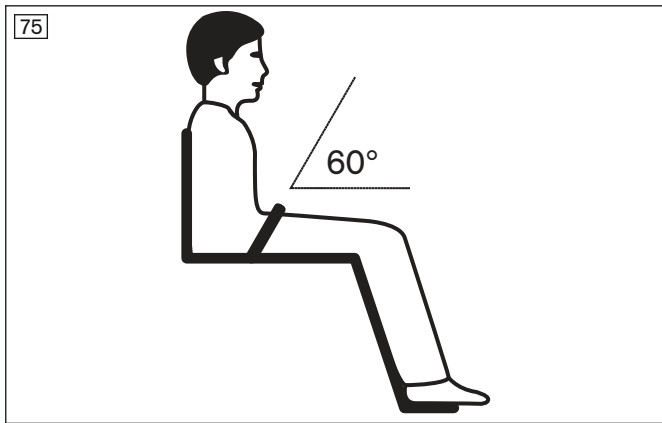
Information about subsequent acquisition and mounting is provided by the qualified personnel that handed over the product.

Using the lap belt

- 1) Open the buckle.
- 2) Place the user in an upright, 90° seated position (if physiologically possible). Ensure that the back is up against the back support pad (if physiologically possible).
- 3) Close the buckle.
- 4) The lap belt should be at an angle of about 60° to the seat bottom. The belt strap should run across the thighs in front of the pelvic bones (see fig. 75).

Possible errors

- The lap belt is positioned above the user's pelvis in the area of the soft part of the stomach.
- The user does not sit upright in the seat.
- If the lap belt is too loose, the user can shift/slide out to the front.
- During the installation/adjustment, the lap belt is routed over parts of the seating system (e.g. over forearm supports or seat pads). This causes the lap belt to lose its retaining function.



7.16 Tray

⚠ WARNING

Inflammable product

Burns due to user error

- ▶ The product is flame retardant. Nevertheless, the possibility that it may catch fire cannot be entirely excluded in case of exposure to an ignition source. Therefore, the utmost caution must be exercised in the vicinity of an open flame.
- ▶ Keep away from all ignition sources, especially lit cigarettes.

⚠ CAUTION

Improper adjustment

Crushing or pinching due to adjustments which are too tight

- ▶ Do not pinch the user when sliding in the product.

⚠ CAUTION

Driving with objects on the tray top

Injuries due to unsecured objects

- ▶ Remove all objects from the tray top prior to travelling.

⚠ CAUTION

Improper lifting by attendants

Tipping over, user falls due to lifting by removable components

- ▶ The product must not be lifted by the tray.

NOTICE

Overloading

Damage to the product due to user error

- ▶ Do not load the tray with heavy objects.
- ▶ No persons may sit or lean on the tray.

The tray serves as a supporting surface during meals, when working or when playing. The clear material allows visibility of the legs and correction of the sitting posture.

Prior to use in a vehicle for transporting persons with reduced mobility, the tray has to be removed.

- 1) Slide the tray onto the arm supports.
- 2) Detach the tray from the arm supports.

Always guide the tray parallel to the arm supports to avoid tilting.



7.17 Additional options

The product may be equipped with additional options.

The options are firmly mounted to the product by qualified personnel or the manufacturer and are pre-adjusted by qualified personnel at delivery.

7.18 Disassembly and transport

⚠ CAUTION

Exposed pinch points

Crushing, pinching due to incorrect handling

- ▶ When folding the wheelchair out or together, only grip by the specified components.

NOTICE

Deformation when folded

Damage to the product, problems unfolding due to unallowable loads

- ▶ Never place heavy objects on the folded product.

INFORMATION

- ▶ When transporting the wheelchair in vehicles, fold it up and remove the wheels and leg supports if necessary.
- ▶ Follow the IATA (International Air Transport Association) rules and those of the relevant airline when transporting the wheelchair in an aircraft. Inform the airline several days before your flight. Use the SSR (special service request) codes to describe the type of limited mobility if necessary. You can for example research these on the Internet.

The wheelchair must be prepared for transport in a passenger vehicle.

- 1) Fold up the foot plates (see page 17).
- 2) **Motus CV only:** Swing away the leg supports, detach and set aside (see page 16).
- 3) **If necessary:** Detach the seat cushion from the hook-and-loop fastener (see fig. 8).
- 4) Pull up the seat upholstery until the wheelchair folds together (see fig. 77).
- 5) Fasten the safety strap (see fig. 4).
- 6) Detach the drive wheels (see page 28).
- 7) Place the disassembled wheelchair in the vehicle (see fig. 78).



7.19 Use in vehicles for transporting persons with reduced mobility

⚠ WARNING

Use in vehicles for transporting persons with reduced mobility

Serious injuries in case of accidents due to user error

- ▶ Always use the seats and personal restraint systems in the vehicle for transporting persons with reduced mobility first. This is the only way to ensure optimum protection of passengers in the event of an accident.
- ▶ If the product is to be used as a seat in a vehicle for transporting persons with reduced mobility, the safety elements offered by the manufacturer and appropriate fastening and personal restraint systems must be used. For more information, please refer to our brochure with the order number 646D158.
- ▶ Never transport more than one person in the product.
- ▶ Only use the product in a vehicle for transporting persons with reduced mobility with the back support in a vertical position.
- ▶ Observe the limitations regarding installed options (see page 41).

⚠ WARNING

Use of the belt system as a passenger restraint system in vehicles for transporting persons with reduced mobility is forbidden

Serious injuries due to improper handling of the product

- ▶ Under no circumstances may the belts and positioning aids offered with the product be used as part of a passenger restraint system in vehicles for transporting persons with reduced mobility.
- ▶ Note that the belts and positioning aids offered with the product are only intended to help support the user sitting in the product.

The product has been tested by the manufacturer according to ISO 7176-19 and may be used as a seat in vehicles for transporting persons with reduced mobility subject to the conditions defined below.

The product must be sufficiently secured during transport in vehicles for transporting persons with reduced mobility. The illustrations that follow show an example for anchoring in a motor vehicle.

The manufacturer is not responsible for the fastening systems that are used. Ensure that only fastening systems that meet the applicable legal requirements and are designed for the overall weight of the product including the user are used.

The transport weight of the person to be transported in a vehicle for transporting persons with reduced mobility corresponds to the maximum permissible user weight (see page 46).

7.19.1 Required accessories

To use the product as a seat in a vehicle for transporting persons with reduced mobility, additional accessories have to be mounted:

- Motus CS/CV: Four belt loops (e.g. from the manufacturers Q'STRAIT or BraunAbility, tested according to ISO 10542-1)

The qualified personnel who fitted the wheelchair can provide more information about accessories.

7.19.2 Using the product in a vehicle

⚠ WARNING

Positioning in vehicles for transporting persons with reduced mobility

Serious injuries in case of accidents due to user error

- ▶ Positioning of the product in vehicles for transporting persons with reduced mobility may only be performed by the qualified personnel.
- ▶ The product must always face forwards when it is used as a seat in a vehicle for transporting persons with reduced mobility.
- ▶ Instruct the qualified personnel regarding the mounting points on your product described below.

⚠ WARNING

Inadequate transportation safety

Loss of safe restraint due to failure to observe transportation instructions

- ▶ Observe the following instructions for correct transport safety in the vehicle for transporting persons with reduced mobility.
- ▶ If necessary, instruct the qualified personnel on the following information.

Securing the product in the vehicle for transporting persons with reduced mobility

The wheelchair is secured in the vehicle for transporting persons with reduced mobility with the help of four belt loops, on which the vehicle side wheelchair restraint belts are attached.

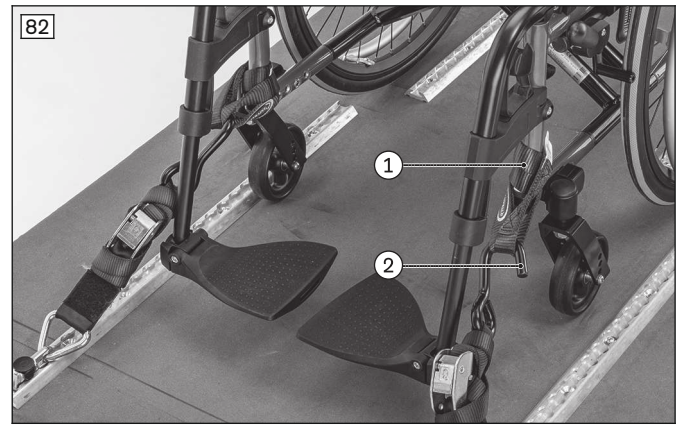
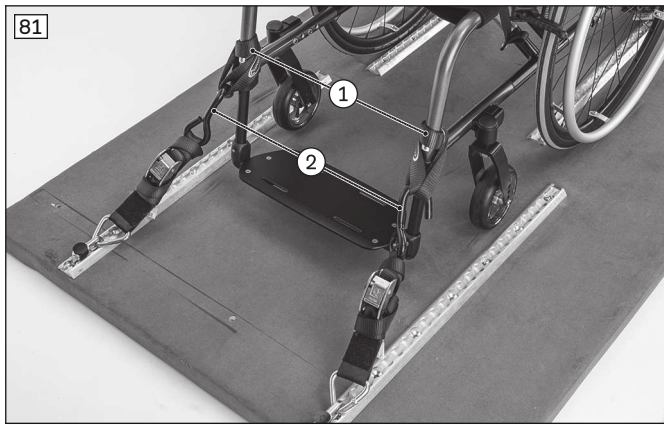
The fixation points of the belt loops are marked with stickers. These stickers show where the user has to pass the belt loops around the frame tube:

- The stickers that label the front fixation points are found on the front frame tube on each side (Motus CV example: see fig. 79, item 1).
- The stickers that label the rear fixation points are found on the rear frame tube on each side (Motus CV example: see fig. 80, item 1).



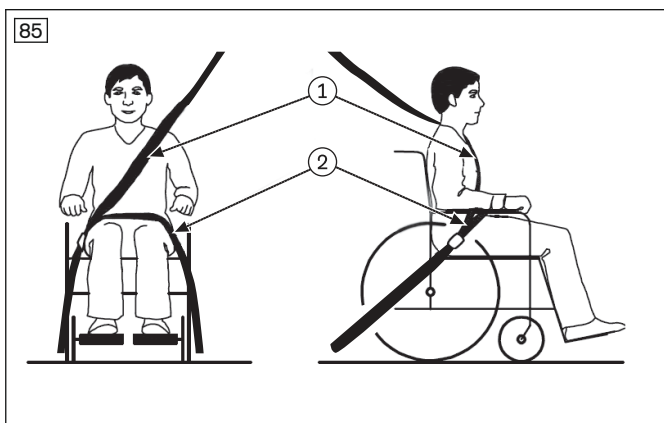
Attaching the belt loops

- 1) Position the product in the vehicle for transporting persons with reduced mobility. For more information, please refer to section 5 in the brochure "Transporting persons with reduced mobility", order number 646D158.
- 2) Engage the two wheel locks (see page 31).
- 3) **Front fixation points:** Attach one belt loop around each of the frame tubes on the left and right of the front frame, wrapping them around the frame tubes at the marked position once or twice depending on the length (Motus CS: see fig. 81, item 1; Motus CV: see fig. 82, item 1).
- 4) Engage the hook of the respective vehicle side wheelchair restraint belt in the belt loop (Motus CS: see fig. 81, item 2; Motus CV: see fig. 82, item 2).
- 5) **Rear fixation points:** Attach one belt loop around each of the frame tubes on the left and right, wrapping them around the frame tubes at the marked position (see fig. 83, item 1).
- 6) Engage the hook of the respective vehicle side wheelchair restraint belt in the belt loop (see fig. 83, item 2).
- 7) Tighten the vehicle side wheelchair restraint belts at the front and rear as firmly as possible.
 - Motus CS example: The product showing the correct positioning of the fastening straps (see fig. 84).



Information on correct transport safety of the user in the vehicle for transporting persons with reduced mobility

- Using the personal restraint system of the vehicle for transporting persons with reduced mobility is required. Attaching personal restraint systems of the vehicle for transporting persons with reduced mobility to the wheelchair is not permitted. The 3-point restraint has to be realised entirely on the vehicle:
 - The lap belt of the personal restraint system is usually attached by the qualified personnel to the left and right sides respectively on the mounting point/pin of the rear lashing straps (wheelchair restraint belts on the vehicle bottom).
 - The shoulder belt of the personal restraint system is usually mounted on the vehicle pillar and is attached by the qualified personnel to the corresponding mounting point/pin provided on the lap belt.
- The straps of the personal restraint system must always be routed close to the user's body. The straps must not be routed over the side panels and wheels (see fig. 85 item 2).
- The shoulder belt must always be routed over the user's shoulder (see fig. 85, item 1).
- The belt strap must not be twisted on the user's body.



Placement of the personal restraint system integrated in the vehicle for transporting persons with reduced mobility

- 1) Pull each end of the restraint lap belt from the inner side of the seat through to the outside.
- 2) Engage the ends of the restraint lap belt on the mounting point/pin of the rear lashing straps/on the vehicle side mounting points, on the left and right sides respectively (see fig. 86).
Alternatively, a retractor-based restraint system of the vehicle for transporting persons with reduced mobility can also be used (not illustrated). In this case, the lap belt is likewise passed around the user from the bottom of the vehicle and anchored in the corresponding vehicle buckle on the opposite side. The shoulder harness is also fastened to the mounting point of the lap belt (see point 3).
- 3) Secure the shoulder harness on the mounting point/pin provided on the lap belt (not illustrated).
 - The restraint lap belt is pulled through and fastened.
 - The lap belt runs between the side panel and seat cushion on each side.



7.19.3 Restrictions for use

⚠ WARNING

Risk of accidents and injury due to using the product with certain settings and/or installed options

Severe injury in case of accidents due to options coming loose

- ▶ Before using the product as a seat in a vehicle for transporting persons with reduced mobility, remove options that need to be taken off for safe transportation. Please observe the following table.
- ▶ Stow all dismantled components securely in the vehicle for transporting persons with reduced mobility.
- ▶ Please note that certain settings on the product exclude the use of the product in a vehicle for transporting persons with reduced mobility.

Motus CV; Motus CS

Option ¹⁾	Transportation in a vehicle for transporting persons with reduced mobility not possible	Remove option	Secure option on product
Wheelbase extension	X		
Back support angle adjustment 30°	X		
Back support height < 400 mm	X		
Tray		X	
Positioning belt			X ²⁾

¹⁾ Not all of the options named are installed on all products.

²⁾ The lap belt can be used to position the passenger during transport. Using the personal restraint system is nevertheless required.

7.20 Care

⚠ CAUTION

Lack of or improper cleaning

Health hazard due to infections, damage to the product due to user error

- ▶ Clean the product at regular intervals.
- ▶ Do not clean the product with a jet of water or a pressure washer. The penetration of water can cause corrosion and subsequent malfunctions.
- ▶ To avoid contamination with germs, clean seat cushions and back support upholstery whenever they get soiled.
- ▶ Check the driving behaviour of the product after cleaning it.

7.20.1 Cleaning

Clean the product regularly depending on the degree of soiling and frequency of use, **at least 1x per month**:

7.20.1.1 Cleaning by hand

- 1) Clean the padding and upholstery with warm water and a mild detergent.
- 2) Remove any spots with a sponge or a soft brush.
- 3) Rinse with clear water and let the components dry.

Important information on cleaning

- Do not use any aggressive cleaners, solvents or hard brushes etc.
- Clean plastic parts, frame parts and the chassis and wheels with a mild cleaner and a damp cloth. Dry thoroughly afterwards.
- Do not spray the product with a pressure washer.

7.20.1.2 Cleaning the seat cushion

Standard seat cushion

- ▶ Clean the seat cushion according to the attached care label.

Seat cushion with foam core

- 1) Open the zipper and remove the foam core (see fig. 87).
- 2) Clean the cover according to the attached care label.
- 3) Wash all foam parts by hand at **40°C** using a mild, environmentally friendly detergent. Allow to air dry.
- 4) Reinsert the foam core with proper alignment. Close the zipper.



Important information on cleaning

- For more information on cleaning seat cushions, see the care instructions on the product or the supplied instructions for use.

7.20.1.3 Cleaning belts/straps

Cleaning a belt system with metal closure

INFORMATION

Observe the washing recommendations on the product and the information in the corresponding instructions for use provided for the product.

- Straps with metal closures **may not be washed in the washing machine** as the penetration of water could cause corrosion and subsequent malfunctions.
- Clean the belt straps by gently dabbing them with warm soapy water (with some disinfectant) or carefully wipe with a dry, clean, absorbent cloth.

Additional cleaning instructions

- Allow the belts to air dry. Ensure that the belts and pads are completely dry before installation.
- Do not expose the belts to direct heat (e.g. sunshine, stove or radiator).
- Do not iron or bleach the belts.

7.20.2 Disinfection

- 1) Thoroughly clean the pads and handles before disinfecting.
- 2) Wipe all parts of the wheelchair with a disinfectant.

Important information about disinfecting

- If the product is used by more than one person, using a conventional disinfectant is required.
- Only use colourless water-based disinfectants. Observe the instructions for use provided by the manufacturer.

8 Maintenance and repair

8.1 Maintenance

⚠ WARNING

Insufficient maintenance

Severe user injuries, damage to the product due to failure to observe maintenance intervals

- ▶ Only carry out the maintenance tasks described in this section. All other maintenance and service tasks may only be carried out by qualified personnel.
- ▶ The functionality and operating safety of the product must be verified and a service performed at least **once per year**.
- ▶ For users with a changing anatomy (for example body dimensions, weight) or users with a changing clinical picture, have the product inspected, adjusted and serviced at least **once every six months**.

- The function of the product should be checked **before each use**.
- The product may not be used if defects are noted. This applies in particular in case of instability of the product or altered driving characteristics as well as problems with the user's seating position or the stability of the seat. Inform the qualified personnel promptly for the rectification of defects.
- This also applies if loose, worn, bent or damaged components, cracks in the frame or broken frame components are identified.
- Some maintenance tasks can be carried out to a certain extent by the user at home (see the sections "Maintenance intervals" and "Maintenance tasks").
- Failure to maintain the product can lead to injuries for the user of the product.

8.1.1 Maintenance intervals

The functions described below must be checked by the user or an attendant at the specified intervals:

Inspection task	Before each use	Monthly	Quarterly
Functional test of the wheel locks	X		
Sagging of the seat or back support upholstery		X	
Stability of the leg supports		X	
Visual inspection of wear and tear parts (e.g., tyres, bearings)		X	
Soiling of bearings		X	

Inspection task	Before each use	Monthly	Quarterly
Damage to the handrim		X	
Air pressure (see tyre sidewall for specifications)		X	
Wear and tear of the folding mechanism		X	
Check of the spoke tension on the drive wheels			X
Check of all screw connections			X
Check the legibility of all labels and markings on the product		X	

8.1.2 Maintenance tasks

To ensure smooth operation at all times, users or attendants with some technical skills can maintain some parts of the product:

- Screw connections must be periodically checked for tightness, especially during the initial period of use or after adjustments have been made to the wheelchair. If a screw connection loosens repeatedly, contact the qualified personnel promptly.
- Particles of dirt and hair accumulate on the caster wheel axle and threaded axle of the caster fork over time. This makes the steering stiffer. Regularly remove dirt and oil the axles. See the section "Approach in case of stiffness".
- The drive wheels are equipped with a quick-release axle system as standard equipment. To keep this system operational, ensure that no dirt adheres to the quick-release axle or receiver bushing. Periodically lubricate the quick-release axle lightly with thin, resin-free oil (sewing machine oil).
- If the wheelchair becomes wet, it should be rubbed dry again.

8.2 Repair

⚠ WARNING

Prohibited repairs

Severe user injuries, damage to the product due to adjustment and installation errors

- ▶ Only carry out the repairs described in this section. All other repairs may only be carried out by the qualified personnel.

8.2.1 Inner tube, rim tape and tyre replacement

⚠ CAUTION

Improper tyre replacement

Injuries to the user due to incorrect installation, product damage

- ▶ No person is permitted to sit in the wheelchair during tyre replacement
- ▶ Before removing a wheel, support the product so it cannot tip over.
- ▶ Always replace the tyres in pairs. Two differently worn tyres affect the directional stability of the wheelchair.

INFORMATION

When driving outdoors, always carry a repair kit and tyre pump (when using pneumatic tyres) in case of emergency.

Suitable tyre pumps are listed on the order form and are supplied with the product. An alternative is tyre foam, which fills your tyre and then hardens (available from bicycle shops, etc.).

Repairing flat tyres requires only the necessary tools and users may change tyres themselves if they wish:

Removal and preparing for installation

- 1) Carefully remove the tyre from the rim using appropriate tools.
INFORMATION: Take care not to damage the rim or the inner tube.
- 2) Unscrew the valve nut from the valve and remove the tube.
- 3) Repair the tube according to the directions in the repair kit or replace it with a new tube.
- 4) Before fitting the tyre again, inspect the rim bed and tyre inner wall for foreign objects. This could have caused the puncture.
- 5) Before installing the tube, check that the rim band is in proper condition. The rim band protects the tube from being damaged by the ends of the spokes.



Replacing the rim band (only when necessary)

- 1) If the rim band needs to be replaced, remove it from the rim.
- 2) Install the new rim band on the inside of the rim, making sure the valve opening is in the right position.
- 3) Glue the rim band in place if this is intended. Ensure that all spoke ends are covered.

Installing the tube and tyre

- 1) Behind the valve, push one side of the tyre over the edge of the rim.
- 2) Slightly inflate the tube until it starts to assume its round shape.
- 3) Unscrew the valve nut from the tube and push the valve through the valve opening in the rim.
- 4) Insert the tube into the tyre.
- 5) Mount the other side of the tyre on the rim, starting from the position across the valve. Ensure that the tube is not pinched between the tyre and rim during this process.



Inflating the tube

- 1) Ensure that the valve is positioned perpendicularly for proper positioning of the tube and tyre in the region of the valve.
- 2) Firmly screw on the valve nut.
- 3) Inflate the tube so that the tyre can still be pressed in easily with your thumb.
INFORMATION: If the circumferential lines on the two sides of the tyre are both at an even distance from the rim, the tyre is centred. If not, let some air out and realign the tyre.
- 4) Inflate the tube to the maximum pressure specified by the tyre manufacturer (see information printed on the tyre sidewall).
- 5) Firmly screw the valve cap onto the valve.

9 Disposal

9.1 Disposal information

Return the product to the qualified personnel for disposal.

All components of the product must be disposed of properly in accordance with the respective national environmental regulations.

10 Legal information

All legal conditions are subject to the respective national laws of the country of use and may vary accordingly.

10.1 Liability

The manufacturer will only assume liability if the product is used in accordance with the descriptions and instructions provided in this document. The manufacturer will not assume liability for damage caused by disregarding the information in this document, particularly due to improper use or unauthorised modification of the product.

10.2 Warranty

Further information on the warranty terms and conditions can be obtained from the qualified personnel that has fitted this product or the manufacturer's service (see inside back cover for addresses).

10.3 Lifetime

Expected lifetime: **4 years**

The design, manufacturing and requirements for the intended use of the product are based on the expected lifetime. These also include the requirements for maintenance, ensuring effectiveness and the safety of the product.

11 Technical data

INFORMATION

- ▶ Much of the technical data below is given in mm. Please note that product settings – unless otherwise specified – cannot be adjusted in the mm range but only in increments of approx. **0.5 cm** or **1 cm**.
- ▶ Note that the values achieved during adjustment may deviate from the values specified below. The deviation can be **±10 mm** and **±2°**.

INFORMATION

- ▶ Some of the measurements indicated below are values that were theoretically determined.
- ▶ Note that not all adjustment possibilities can be used with all product versions. Furthermore, the adjustment combinations are limited by the compact frame geometry.
- ▶ Technical changes and tolerances are reserved by the manufacturer.

	Motus
Max. load [kg]	125/140
Weight [kg] ¹⁾ (For seat width 380 mm, seat depth 400 mm; 5" full rubber caster wheels)	Approx. 14
Transport weights [kg] ¹⁾ ; (For seat width 380 mm, seat depth 400 mm; 5" full rubber caster wheels)	Wheelchair without wheels: approx. 10.5
Seat width [mm] ²⁾	355 – 555
Seat depth [mm] ²⁾	360 – 540
Lower leg length [mm] (without cushion)	340 – 550
Max. overall height [mm] (For rear seat height: 520 mm; back support height: 500 mm; push handle)	1100
Min. tyre pressure [bar] ³⁾	7
Steering range approx. [mm] ⁴⁾ (For seat width 380 mm, seat depth 400 mm; passive wheelbase)	1080
Maximum permissible inclination [°]/[%] ⁵⁾⁶⁾⁷⁾	7 / 12.3

¹⁾ The specified weights vary according to the selected options and model.

²⁾ In accordance with ISO 7176-5, 8.12

³⁾ Varies depending on tyre option; see the print on the tyre wall

- 4) Turning range/diameter in accordance with ISO 7176-5, 8.11/8.12
 5) Also applies for parking with wheel lock engaged.
 6) Applies to all directions (upwards, downwards, sideways).
 7) In accordance with ISO 7176-1.

Additional information

Motus	Minimum	Maximum
Mass of the heaviest component [kg]	---	From 8 (with smallest seat width, smallest seat depth and lowest back support height)
Overall length [mm] ¹⁾	830	1110
Overall width [mm] (with standard drive wheels) ²⁾	520	720
Overall width [mm] (with drive wheels with drum brake) ²⁾	555	755
Length (folded) [mm]	805	1110
Width (folded) [mm]	320	355
Height (folded) [mm]	730	1090
Seat bottom angle [°]	1 – 15 (depends on seat height front/rear)	
Effective seat depth [mm]	360	540
Effective seat width [mm]	355	555
Front seat height [mm]	380	550
Rear seat height [mm]	360	520
Back support angle [°]	0 (vertical)	Up to 30
Back support height [mm]	300	500
Distance from leg support to seat [mm]	340	520
Distance from arm support to seat [mm]	210	300
Angle from foot plate to seat surface [°]	Fully adjustable	
Drive wheels	24"	
Caster wheels	4", 5", 5.5", 6", 7"	
Permissible tyre type	Pneumatic, PU or solid rubber / 1", 1 3/8"	
Handrim diameter [mm]	507	520
Minimum turning radius [mm] ³⁾	520	---
Horizontal axle position [mm] ⁴⁾	33	106.5

- 1) With wheelbase extension: rear axle position + 73 mm
 2) Applicable to handrim attachment, narrow and 0° drive wheel camber
 3) In accordance with ISO 7176-5
 4) Measured in reference to the middle of the back support

Ambient conditions

Temperatures and relative humidity	
Temperature during use [°C (°F)]	-10 to +40 (14 to 104)
Transport and storage temperature [°C (°F)]	-10 to +40 (14 to 104)
Relative humidity [%]	45 to 85; non-condensing

12 Appendices

12.1 Threshold values for wheelchairs transportable by train

INFORMATION

- ▶ The products in this series fully satisfy the minimum technical requirements of regulation (EU) No. 1300/2014 regarding train accessibility for people with disabilities. However, not all versions can comply with all threshold values due to different settings.
- ▶ With the help of the table that follows, you or the qualified personnel can take measurements and verify whether the specific product in question meets the threshold values.

Feature	Threshold value (according to Regulation (EU) No. 1300/2014)
Length [mm]	1200 (plus 50 mm for the feet)
Width [mm]	700 (plus 50 mm on each side for the hands when moving)
Smallest wheels ["]	approx. 3 or greater (according to the regulation, the smallest wheel must be able to overcome a gap measuring 75 mm horizontally and 50 mm vertically)
Height [mm]	max. 1375; including a 1.84 m large male user (95th percentile)
Turning radius [mm]	1500
Maximum weight [kg]	200 (product with user, including luggage)
Maximum obstacle height that can be overcome [mm]	50
Ground clearance [mm]	60 (at an upward slope angle of 10°, ground clearance must measure at least 60 mm under the footrest for going forward at the end of the slope)
Maximum inclination angle on which the product will remain stable [°]	6 (dynamic stability in all directions) 9 (static stability in all directions, also when wheel lock engaged)



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