



Start M2S, Start M2

EN Instructions for use (user)	3
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Table of contents

EN

1	Foreword	5
2	Product description	5
2.1	Function	5
2.2	Product overview	6
3	Intended use	7
3.1	Indications for use	7
3.2	Indications	8
3.3	Contraindications	8
3.3.1	Absolute Contraindications	8
3.3.2	Relative Contraindications	8
4	Safety	8
4.1	Explanation of warning symbols	8
4.2	Safety instructions for use	8
4.3	Side effects	11
4.4	Further information	11
4.5	Nameplate and warning labels	12
4.5.1	Nameplate	12
4.5.2	Warning labels	12
5	Delivery	12
5.1	Scope of delivery	12
5.2	Options	12
5.3	Storage	12
5.3.1	Storage during daily use	12
5.3.2	Storage during extended disuse	12
6	Preparing the product for use	13
6.1	Assembly	13
7	Use	14
7.1	Further instructions for use	14
7.2	Getting in and transferring	14
7.3	Legrests	14
7.3.1	Further settings	17
7.4	Seat and back upholstery	17
7.5	Seat cushion	18
7.6	Backrest	19
7.6.1	Adjusting the back support angle	19
7.7	Side panels	20
7.8	Arm supports/hand supports	21
7.9	Push handles	22
7.10	Stabiliser bar	23
7.11	Drive wheels	23
7.11.1	Drive wheels with quick-release axle	24
7.11.2	Rear wheel with one-handed operation (double push rings)	24
7.12	Caster wheels and caster forks	25
7.12.1	Approach in case of stiffness	26
7.13	Wheel locks	26
7.13.1	Knee lever wheel locks	26
7.13.2	Knee lever wheel lock for one-handed operation (double handrims)	27
7.13.3	Knee lever wheel lock for user and attendant	27
7.13.4	Drum brake	28
7.13.5	Wheel lock lever extension	28
7.14	Anti-tipper/tip-assist	29
7.14.1	Anti-tipper	29
7.14.2	Tip-assist	30
7.15	Lap belt (seat belt)	30

7.16	Transport wheels	31
7.17	Transfer version	32
7.18	Crutch holder with hook-and-loop fastening strap	32
7.19	Head and neckrest	32
7.20	Tray	33
7.21	Side thoracic support	34
7.22	Wider foot space	34
7.23	Additional options	35
7.24	Disassembly and transport	35
7.25	Use in vehicles for transporting persons with reduced mobility.....	36
7.25.1	Restrictions for use	36
7.25.2	Required accessories	37
7.25.3	Using the product in a vehicle.....	37
7.26	Care.....	39
7.26.1	Cleaning	39
7.26.1.1	Cleaning by hand	39
7.26.1.2	Cleaning in a washing chamber/wheelchair washing system	39
7.26.1.3	Cleaning the seat cushion	40
7.26.1.4	Cleaning belts/straps	40
7.26.2	Disinfection	40
8	Maintenance and repair	41
8.1	Maintenance.....	41
8.1.1	Maintenance intervals	41
8.1.2	Maintenance tasks	41
8.2	Repair	42
8.2.1	Inner tube, rim tape and tyre replacement	42
9	Disposal	43
9.1	Disposal information	43
10	Legal information	43
10.1	Liability	43
10.2	Warranty	43
10.3	Lifetime.....	43
11	Technical data	44
12	Appendices	45
12.1	Threshold values for wheelchairs transportable by train	45

1 Foreword

INFORMATION

Date of last update: 2021-11-24

- ▶ 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



Start M2 – version with flex-frame (region-specific version)

1	Back support, back support upholstery	8	Release button for quick-release axle
2	Side panel with forearm support	9	Drive wheel adapter
3	Seat cushion	10	Frame
4	Wheel lock (here: knee lever wheel lock)	11	Handrim
5	Leg support, segmented, removable	12	Drive wheel
6	Caster fork	13	Push handle
7	Caster wheel		



Start M2 – version with standard frame (region-specific version)

1	Back support, back support upholstery	8	Release button for quick-release axle
2	Side panel with forearm support	9	Drive wheel adapter
3	Seat cushion	10	Frame
4	Wheel lock (here: knee lever wheel lock)	11	Handrim
5	Leg support, segmented, removable	12	Drive wheel
6	Caster fork	13	Push handle
7	Caster wheel		

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

 WARNING
Independent modification of settings Serious injuries to the user due to improper changes to the product
<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.

 WARNING
Settings outside the safety limits Tipping over, falling due to adjustment errors because of failure to observe the physical/psychological requirements of the user
<ul style="list-style-type: none">▶ In certain versions and with certain settings, the product tends to tip backwards due to its design. This is an intentional feature designed to enable users with the corresponding physical prerequisites to manoeuvre quickly and nimbly.▶ Users with the necessary physical and psychological preconditions can be supplied with such versions/settings. If the physical/psychological preconditions change, the product may no longer be used with these settings. Inform the responsible qualified personnel immediately in this case.

 WARNING
Improper handling of packaging materials Risk of suffocation due to neglect of the duty to supervise
<ul style="list-style-type: none">▶ Packaging materials must be kept out of the reach of children.

Risk of hand injuries

 CAUTION
Pinching on components Pinching, crushing due to lack of caution in danger areas
<ul style="list-style-type: none">▶ 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 by removable components

- ▶ Only lift the product by firmly mounted components (e.g. main frame, push handles).
- ▶ Be sure that the clamping levers of the height-adjustable push handles are firmly tightened.

⚠ 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.

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, 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 crossbrace.

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 44.

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 wheel locks.
- ▶ Check the tyre pressure. The correct tyre pressure is printed on the sidewall. Ensure that the pressure is the same in both tyres.

INFORMATION

On the topic of disassembly/transport: see page 35.

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

- 1) Attach the drive wheels to the quick-release axle mountings (see fig. 3):
 - Press the button on the quick-release axle.
 - Attach the drive wheel to the quick-release axle mounting and release the button on the quick-release axle.
 - The quick-release axles must not be removable after releasing the press button.
 - **INFORMATION: With "drive wheel for one-handed operation" option: see page 24.**
- 2) Unfold the wheelchair (see fig. 4).

INFORMATION: While next to the wheelchair, tip it slightly towards you and press on the edge of the seat upholstery closest to you.
- 3) **Only with "drive wheel for one-handed operation" option:** Insert the telescoping rod (see page 24).
- 4)
- 5) Attach the leg supports (see page 14).
- 6) **If necessary:** Fold up the back support (see page 19).
- 7) **If necessary:** Pull the part of the flap that can be fastened forwards and fasten it tightly to the seat upholstery (see fig. 5).
- 8) **If necessary:** Fit the seat cushion. The seat cushion is secured against sliding by being pressed on to the hook-and-loop closure (see page 18).





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 44 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 45 for further details).

7.2 Getting in and transferring

⚠ CAUTION

Incorrect handling when getting in

Risk of falling, tipping or rolling away due to incorrect handling

- ▶ Activate the wheel lock each time before you get into or out of or transfer to or from the wheelchair.
- ▶ Always get into the wheelchair from the side, where possible.
- ▶ Never step on the foot plates when getting in and out.
- ▶ Do not support yourself on the wheel lock when getting in/out.

⚠ 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:

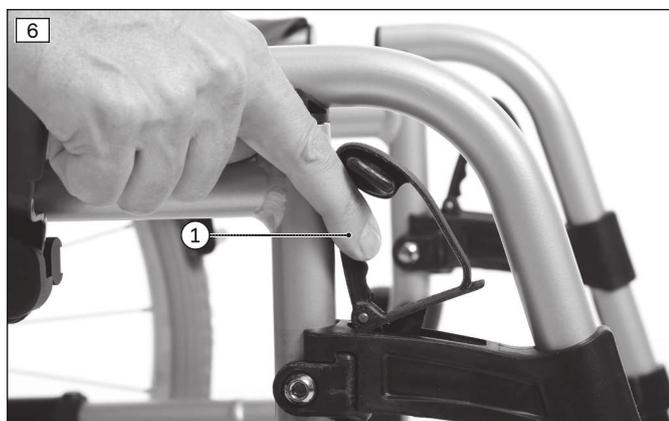
The calf strap offers additional support for the user's legs. It also prevents the feet from sliding off the foot plate into the danger area. The calf strap can be removed for cleaning.

Swinging away/removing the leg support – segmented leg support

- 1) Take the foot off the foot plate.
- 2) Fold the foot plate up.
- 3) Pull back the leg support release lever (see fig. 6, item 1).
- 4) Fold the leg support out by **90°** and remove it (see fig. 7, item 1).
- 5) **If necessary:** Pull the leg support up and off (see fig. 7, item 2).

Attaching/swinging back the leg support – segmented leg support

- 1) **If necessary:** To attach the leg support, hold it **90°** out to the side and insert it into the leg support retainer (see fig. 7, item 2).
- 2) Swing the leg support into the direction of travel until it engages (see fig. 7, item 1).
- 3) Fold the foot plate down.
- 4) Put the foot back on the foot plate.

**Swinging away/removing the leg support – elevating leg support/amputation leg support****INFORMATION**

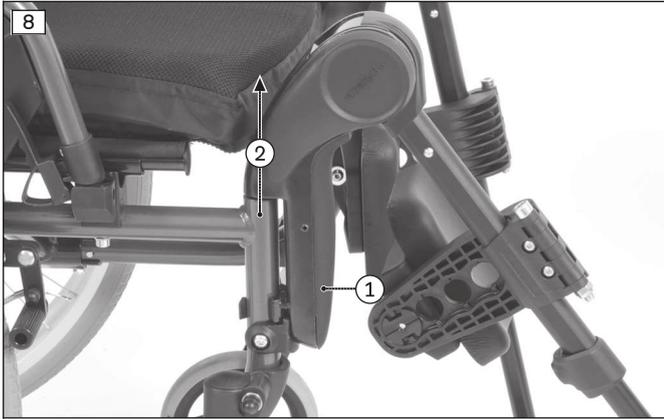
If necessary, the elevating leg support and amputation leg support can also be directly pulled up and off or inserted vertically without swinging them away to the side.

- 1) **Only for elevating leg support:** Take the foot off the foot plate.
- 2) **Only for elevating leg support:** Fold up the foot plate.
- 3) Activate the release lever (see fig. 8/see fig. 9, item 1).
- 4) **If necessary:** Fold the leg support out by **90°** (not illustrated).
- 5) Pull the leg support up and off (see fig. 8/see fig. 9, item 2).

Attaching/swinging back the leg support – elevating leg support/amputation leg support

- 1) Insert the leg support into the leg support retainer from above (see fig. 8/see fig. 9, item 2).

- 2) **If necessary:** Swing the leg support into the direction of travel (not illustrated).
- 3) Push the leg support down until it engages.
- 4) **Only for elevating leg support:** Fold down the foot plate.
- 5) **Only for elevating leg support:** Put the foot back on the foot plate.



Adjusting the angle of the elevating leg support/amputation leg support

- 1) Hold the leg support and turn the release lever upwards to the stop (see fig. 10/see fig. 11, item 1).
- 2) Set the angle (see fig. 10/see fig. 11, item 2).
- 3) Let go of the release lever. The leg support will automatically snap into place in the next free position.



Fastening the calf strap

- 1) Open all hook and loop closures.
- 2) Thread the calf strap through the eyelet on the footplate (see fig. 12).
- 3) Thread the other end through the eyelet on the swivel segment (see fig. 13).
- 4) Adjust the length and fasten the hook-and-loop closure (see fig. 14).

Removing the calf strap

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



7.3.1 Further settings

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.

The seat upholstery and back support upholstery/back support pad can be removed from the wheelchair for cleaning.

Removing the seat upholstery

- 1) Remove the Phillips head screws on each side (see fig. 15, item 1).
- 2) Remove the seat upholstery.

Attaching the seat upholstery

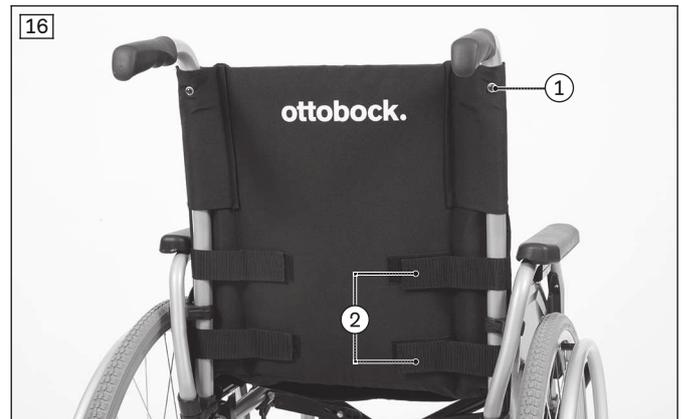
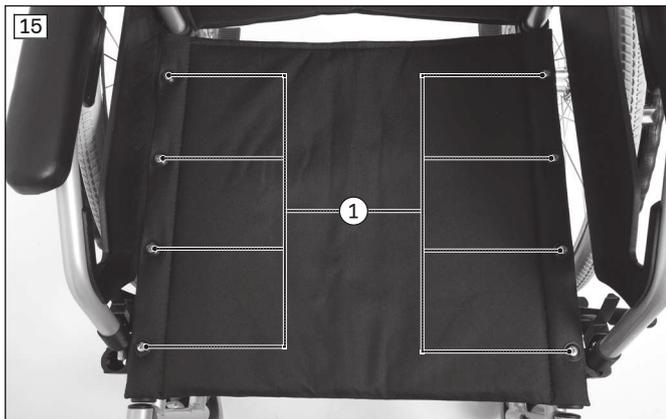
- 1) Lay the seat upholstery onto the frame tubes.
- 2) Install and tighten the Phillips head screws on each side (see fig. 15, item 1).

Removing the back support upholstery, standard

- 1) Pull the flap of the back support upholstery off the seat upholstery (see fig. 5).
- 2) Remove the Phillips head screws on both back support tubes (see fig. 16, item 1).
- 3) Open all hook-and-loop straps (see fig. 16, item 2).
- 4) Fold the wheelchair halfway and pull the back support upholstery up over the back support tubes and push handles.

Attaching the back support upholstery, standard

- 1) Slide the back support upholstery down over the push handles and back support tubes.
- 2) Install and tighten the Phillips head screws on each side (see fig. 16, item 1).
- 3) Fasten the hook-and-loop straps (see fig. 16, item 2).
- 4) Attach the flap of the back support upholstery to the seat upholstery with the hook-and-loop fastener (see fig. 5).



Removing the back support pad (Economy Ergo back support upholstery)

- 1) Remove the seat cushion.
- 2) Pull the flap of the back support pad off the seat upholstery (see fig. 5).
- 3) Fold up the back support pad and pull it off the hook-and-loop straps of the back support upholstery (see fig. 17).

Attaching the back support pad (Economy Ergo back support upholstery)

- 1) From the rear, apply the edge of the back support pad to the upper hook-and-loop strap (see fig. 18, arrows).
- 2) Fold down the back support pad and secure it to the upholstery straps with the hook-and-loop fasteners (see fig. 17).
- 3) Pull the part of the flap that can be fastened forward and attach it to the seat upholstery with the hook-and-loop fastener (see fig. 5).



7.5 Seat cushion

If present: The seat cushion can be removed from the wheelchair for cleaning.

- 1) Lay the seat cushion onto the seat upholstery and secure it against sliding by pressing it onto the hook-and-loop fastener (see fig. 19).
- 2) To remove, detach the seat cushion from the hook-and-loop fastener on the upholstery.



7.6 Backrest

The product can be equipped with a fixed or optionally an angle-adjustable backrest.

7.6.1 Adjusting the back support angle

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.

INFORMATION

A product with this option has not been approved for use as a seat in vehicles for transporting persons with reduced mobility (see page 36).

“Back support angle adjustment 30°” option

With this option, the back support angle is continuously adjustable from **90° to 120°** in 10° increments (see fig. 20) and the back support can be laid down onto the seat bottom.

- 1) Pull the cable of the back support release mechanism until the angle adjustment is released by the locking pins (see fig. 21).
- 2) Move the back support to the desired position.
- 3) Release the cable. Ensure that the locking pins securely engage on both sides.



7.7 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.

The installed armrests offer the user additional support for the forearms.

To make getting into the wheelchair easier and for transportation, the side panels can be folded down.

Plug-on side panels can also be removed from the wheelchair.

Depending on the equipment, the following side panels can be installed:

- **Version 1:** Side panel with height-adjustable forearm support (see fig. 22)
- **Version 2:** Side panel with height-adjustable forearm support (see fig. 23)

22



23



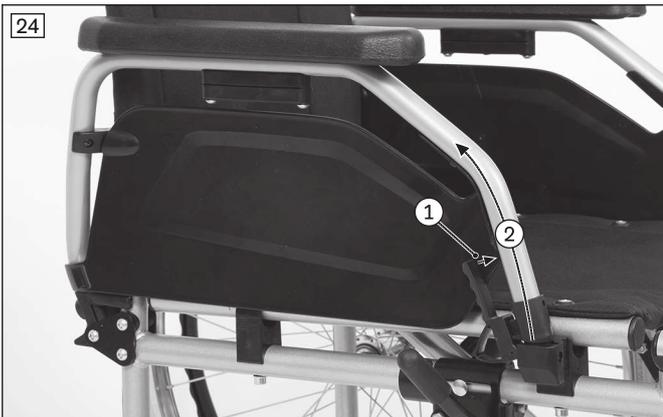
Elevating the side panels

- 1) Press the side panel locking mechanism (see fig. 24, item 1).
- 2) Fold back the side panel (see fig. 24, item 2).

Swinging back the side panels

- 1) Fold the side panel forwards.
- 2) The side panel locking mechanism has to audibly engage in the side panel adapter.
INFORMATION: Verify the firm fit of the side panels in the side panel adapter.

24



Removing the plug-on side panels

- 1) Fold back the side panel.
- 2) Press in the pushbutton (see fig. 25).
- 3) Take the side panel out of the adapter.

Installing the plug-on side panels

- 1) Insert the side panel in the adapter.
- 2) Press in the pushbutton and allow the side panel to engage in the adapter (see fig. 26).
- 3) Fold the side panel forward and lock it.

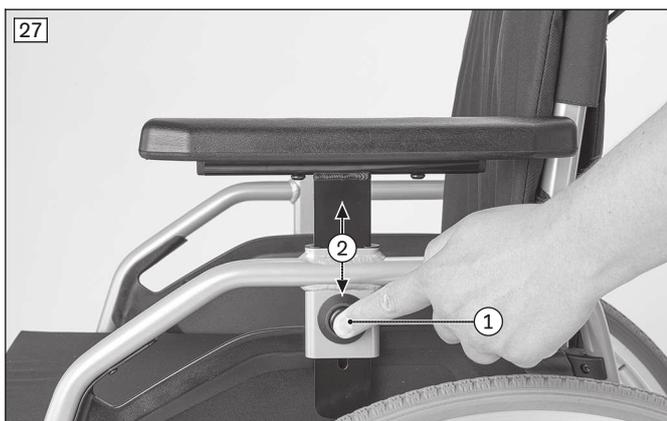


Adjusting the forearm support height – side panel with height-adjustable forearm support

The height of the forearm support should only be adjusted by qualified personnel.

Adjusting the forearm support height – side panel with height-adjustable forearm support

- 1) Push the release button (see fig. 27, item 1).
- 2) Adjust the height of the forearm support (see fig. 27, item 2).



7.8 Arm supports/hand supports

As alternatives to the standard arm supports, various types of modular forearm supports and hand supports may be installed on the wheelchair.

These are mounted either on the side panel or on a swivel unit.



Swivel unit for forearm supports

INFORMATION

Also observe the information in the separate instructions for use for this option.

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. Furthermore, the swivel unit is required for using a modular forearm support.

Adjusting the support angle

- 1) Pull the release button outwards (see fig. 29, item 1).
- 2) Lift up the arm support at the front end and adjust it to the desired angle (see fig. 29, 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. 30, item 1).
- 2) Move the arm support to the desired rotation setting.
- 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. 30, item 1).
- 2) Turn the release button 90°. The arm support can be rotated freely in this position.
- 3) Move the arm support to the desired rotation setting.
- 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 (see fig. 30, item 2).
- 2) Slide the arm support to the desired depth.
- 3) Re-tighten the Allen head screws under the arm support (see fig. 30, item 2).



7.9 Push handles

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

Adjusting the push handles

The standard push handle installation is fixed and the height cannot be adjusted.

The telescoping push handle can be adjusted in height.

- 1) Release the clamping lever (see fig. 31, item 1).
- 2) Adjust the height of the push handle (see fig. 31, item 2).
- 3) Lock the clamping lever securely.

INFORMATION: Both push handles must be adjusted to the same height.



7.10 Stabiliser bar

The stabiliser bar between the push handles increases the wheelchair's stability, especially in case of high loads (see fig. 32). 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. 33, item 1).
- 2) Fold the stabiliser bar down (see fig. 33, 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.



7.11 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.

⚠ WARNING**Defective tyres**

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

- ▶ Maintain sufficient tyre pressure. Note the information in the section "Technical data" or on the tyre sidewall.
- ▶ Ensure that the pressure is the same in both tyres.
- ▶ Ensure that the tyres have sufficient tread depth.

⚠ 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.

7.11.1 Drive wheels with quick-release axle

- 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.
- 4) Remove or mount the drive wheel.

After mounting: The drive wheels must not be removable after releasing the push-button on the quick-release axle.

**7.11.2 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. 36).

- **Using the outer and inner handrim together:** Both wheels are driven together. The wheelchair drives straight ahead (see fig. 36, item 1/2).
- **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 (see fig. 36, item 1).

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 push in the press button on the quick-release axle (see fig. 36, item 3).
- 2) Attach the drive wheels for one-handed operation to the quick-release axle mounting. The quick-release axles must not be removable after releasing the press 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. 37, item 1).
- 4) Compress the telescoping rod (see fig. 38, item 1).
- 5) Set the other end of the telescoping rod onto the second wheel pivot and release the telescoping rod (see fig. 38, item 2).

Detaching drive wheels for one-handed operation

- 1) Compress the telescoping rod and remove it (see fig. 38, item 1).
- 2) Use your thumb to push in the press button on the quick-release axle and detach the drive wheel (see fig. 36, item 3).



7.12 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.

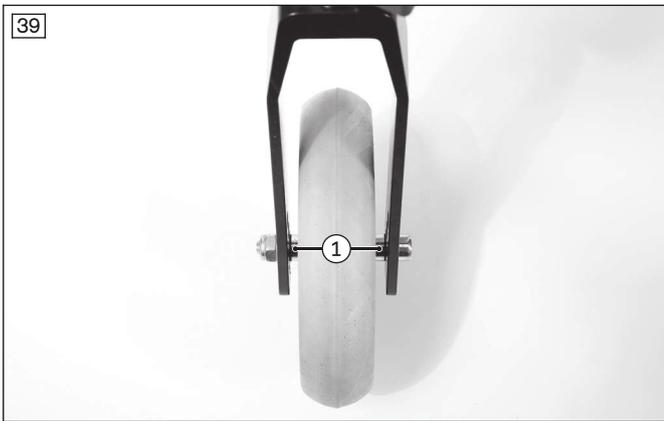
The caster wheels and caster forks have been chosen by the qualified personnel according to the needs of the user.

7.12.1 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 (e.g. hairs) from the caster wheel axle between the caster wheel and caster fork (see fig. 39, item 1).
- 2) Lubricate the caster axle between the caster wheel and caster fork with a few drops of thin, resin-free oil (sewing machine oil).

**7.13 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.

The wheel locks secure the parked wheelchair against rolling away.

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

7.13.1 Knee lever wheel locks**Activating/deactivating the knee lever wheel lock**

- 1) Push the handle of the knee lever wheel lock forward (see fig. 40).
 - The wheel lock bolt secures the wheel.
- 2) Pull the wheel lock lever upwards (see fig. 41).
 - The wheel lock bolt releases the wheel.



7.13.2 Knee lever wheel lock for one-handed operation (double handrims)

Depending on the installation, this wheel lock type can be operated either on the right or left side and ensures safe locking of both rear wheels with a pull-wire system.

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

INFORMATION

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

Depending on the installation, this wheel lock type can be operated either on the right or left side and ensures safe locking of both drive wheels with a pull-wire system.

- 1) Push the handle of the knee lever wheel lock forward (see fig. 42, item 1).
→ The wheel lock bolt secures the wheel.
- 2) Pull the wheel lock lever upwards (see fig. 42, item 2).
→ The wheel lock bolt releases the wheel.



7.13.3 Knee lever wheel lock for user and attendant

This wheel lock type can be used by both the user and an attendant.

INFORMATION

Operation of the wheel lock by the user is the same as for the knee lever wheel lock described above.

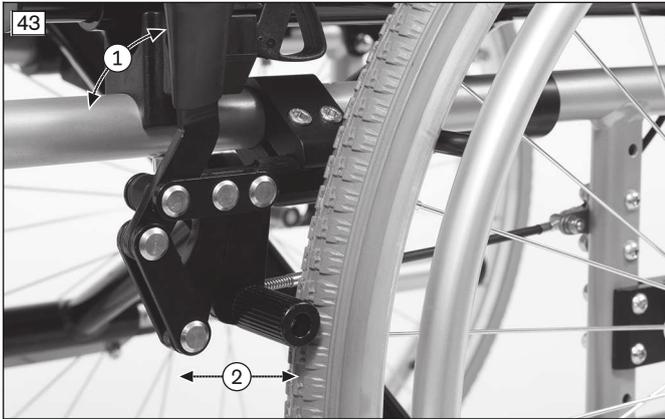
Braking by the user

- 1) Push the handle of the knee lever wheel lock forward (see fig. 43, item 1).
→ The wheel lock bolt secures the wheel (see fig. 43, item 2).
- 2) Pull the wheel lock lever upwards (see fig. 43, item 1).
→ The wheel lock bolt releases the wheel (see fig. 43, item 2).

Braking by the attendant

- 1) Pull the wheel lock lever (see fig. 44, item 1).

- 2) Secure the wheel lock lever by additionally actuating the lock slide (see fig. 44, item 2).
→ The wheel lock bolt secures the wheel (see fig. 43, item 2).
- 3) Deactivate the wheel lock by actuating the wheel lock lever again or pressing the lock slide (see fig. 44, item 1/2).
→ The wheel lock bolt releases the wheel (see fig. 43, item 2).



7.13.4 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.

The drive wheels can still be removed via the quick-release axles when the wheel lock lever is released.

Activating/deactivating the drum brake

- 1) Pull the wheel lock lever (see fig. 45, item 1).
- 2) If necessary, secure the wheel lock lever by additionally actuating the lock slide (see fig. 45, item 2).
→ The wheelchair remains securely braked.
- 3) Deactivate the wheel lock by actuating the wheel lock lever again or pressing the lock slide (see fig. 46, item 1).
→ If necessary, release the wheel lock lever by additionally actuating the lock slide (see fig. 46, item 2).
→ The wheelchair can be pushed again.

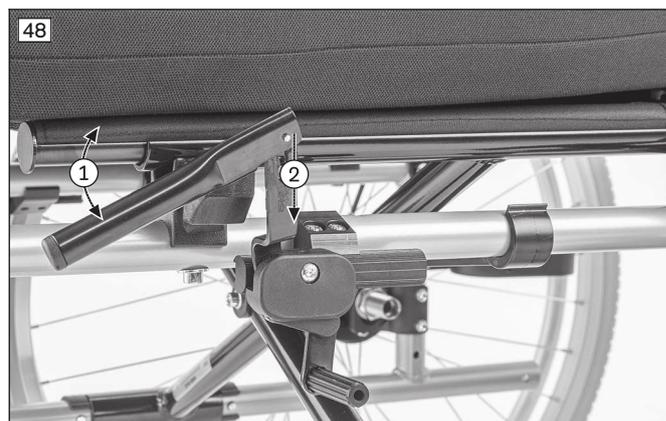


7.13.5 Wheel lock lever extension

Using the wheel lock lever extension (option)

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

- 1) Pull the handle of the wheel lock lever extension up and fold it away to the front (see fig. 47, 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. 48, item 1/2).



7.14 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.

7.14.1 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.

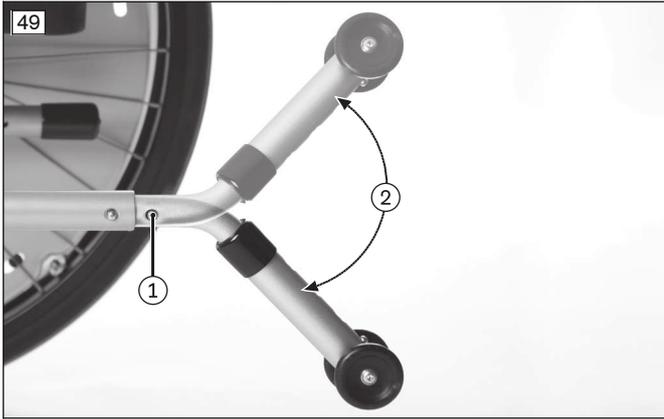
Activation

- 1) Depress the spring button on the upper tube section of the anti-tipper (see fig. 49, item 1).
 - 2) Rotate the anti-tipper down by **180°** (see fig. 49, item 2).
 - 3) Allow the spring button to engage.
- The anti-tipper is activated.

Deactivation

- 1) Depress the spring button on the upper tube section of the anti-tipper (see fig. 49, item 1).
- 2) Rotate the anti-tipper upwards by **180°** (see fig. 49, item 2).
- 3) Allow the spring button to engage.

→ The anti-tipper is deactivated.



7.14.2 Tip-assist

For this wheelchair type the tip-assist is integrated into the frame (see fig. 50).

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



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.

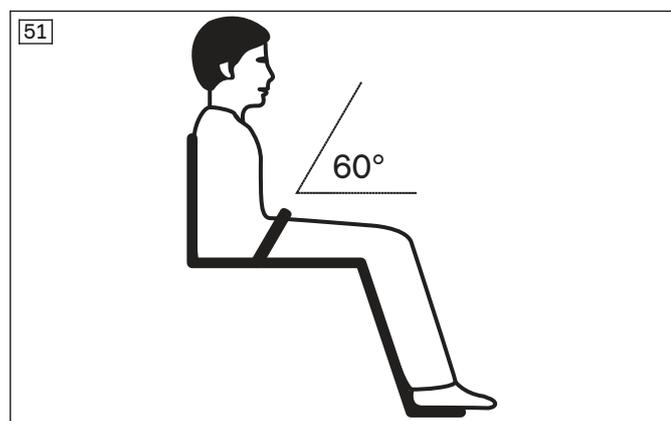
Using the lap belt

- 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. 51).

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 Transport wheels

⚠ CAUTION

Knee lever wheel lock when the drive wheels are removed

Risk of accident, falling due to loss of functionality of the knee lever wheel lock

- ▶ Note that a wheelchair with transport wheels can only be braked by an attendant.

⚠ CAUTION

Incorrect height setting

Risk of tipping or falling due to the sloped product setting

- ▶ Always adjust the height equally on both sides.

The transport wheels permit movement through very narrow passages (e.g. in trains or aircraft).

Transport wheels take the place of the drive wheels. In order to move, an attendant is required to push the wheelchair.

- > Prior to use, verify whether the transport wheels have been set to the same height.

1) Remove the drive wheels.

Whenever possible, this should be done when the user is not sitting in the wheelchair. If the user is sitting in the wheelchair, proceed as follows:

- 2) The first attendant holds the wheelchair in a stable position so that the drive wheels are relieved in turn.
- 3) The second attendant carefully removes the first and second drive wheel one after the other.

→ The wheelchair can now be pushed on the transport wheels (see fig. 53).



7.17 Transfer version

The transfer version with 12" rear wheel is especially well suited for patient transfer.

Here the user is pushed by an attendant.

The wheel locks can be engaged and released by the attendant, respectively using the hands.

7.18 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.



7.19 Head and neckrest

Head/neckrests or headrests make it possible to support the head in case of various severe disability indications.

The head/neckrests or headrests consist of polyurethane foam and can be cleaned with mild soap and water.

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

The head support can be removed from the wheelchair for transportation.

Removing the head support

- 1) Release the clamping lever (see fig. 56, item 1).
- 2) Pull out the adjustment tube with the head support (see fig. 56, item 2).

Attaching the head support

- 1) Insert the adjustment tube with the head support into the clamp fitting to the stop (see fig. 56, item 2/3).
- 2) Tighten the clamping lever (see fig. 56, item 1).



7.20 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.

Mounting/removing the tray

- 1) Slide the tray on to the armrests.
- 2) Pull the tray off the armrests.

Always guide the tray parallel to the armrests to avoid canting.



7.21 Side thoracic support

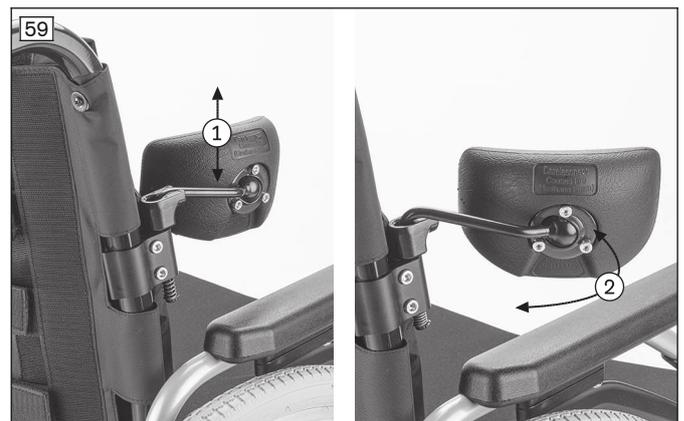
INFORMATION

Also observe the information in the separate instructions for use for this option.

The side thoracic supports help position the user's torso. A locking function prevents them from rotating.

Using the thoracic support

- 1) Pull the thoracic support up (see fig. 59, item 1).
- 2) Fold the thoracic support away to the side to make getting in easy (see fig. 59, item 2).
- 3) Fold the thoracic support back again and push it down so it locks into the retainer.



7.22 Wider foot space

The wider foot space makes the entry area larger and offers additional space, for example, on wheelchairs with the "foot-propelled wheelchair" option.



7.23 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.

7.24 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.

- 1) Remove the leg supports (see page 14).
- 2) **If necessary:** Open the stabiliser bar (see page 23).
- 3) **If necessary:** Detach the seat cushion from the hook-and-loop fastener.
- 4) **If equipped for one-handed operation (double handrims):** Compress the telescoping rod and remove it (see page 24).
- 5) Pull up the seat upholstery until the wheelchair folds together (see fig. 61). Fasten the safety strap (not illustrated).
- 6) Remove the drive wheels (see page 24).
- 7) Place the disassembled wheelchair in the vehicle (see fig. 62).



7.25 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 36).

⚠ WARNING

Using the belt system or positioning aid as a passenger restraint system in vehicles for transporting persons with reduced mobility is prohibited

Serious injuries due to improper handling of the product

- ▶ Under no circumstances may the belts and positioning aids that come 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 that come with the product are intended only as additional support for 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 44).

7.25.1 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.

Option ¹⁾	Transportation in a vehicle for transporting persons with reduced mobility not possible	Remove option	Secure option on product
Add-on drive	X		
Back support angle adjustment 30°	X		
Tray		X	
Clinical mounting kit		X	
Head support		X	
Stabiliser bar		X	
Transport wheel			X ²⁾

Option ¹⁾	Transportation in a vehicle for transporting persons with reduced mobility not possible	Remove option	Secure option on product
Lap belt			X ³⁾
Chest strap			X ³⁾

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

²⁾ Transport wheels can remain on the wheelchair with installed drive wheels during transportation in a vehicle for transporting persons with reduced mobility.

³⁾ The belt can be used to position the passenger during transportation. Using the personal restraint system is nevertheless required.

7.25.2 Required accessories

Four belt loops are necessary in order to use the product as a transport seat in a vehicle for transporting persons with reduced mobility (tested according to ISO 10542-1 or comparable test standards). The qualified personnel who fitted the wheelchair can provide more information.

Required materials

- Four belt loops (e.g. from the manufacturers Q'STRAIT or Unwin Safety Systems, tested according to ISO 10542-1)

7.25.3 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

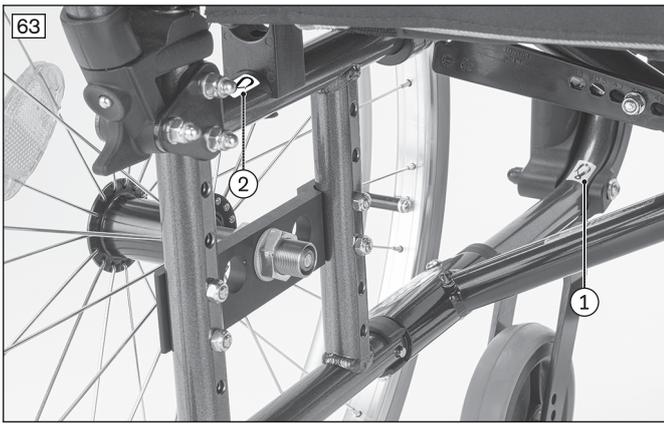
- ▶ Observe the following instructions for correct transport safety in the vehicle for transporting persons with reduced mobility.
- ▶ If necessary, instruct the qualified personnel on the following information.

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 labeling the front fixation points are found on the front frame in the lower section of the caster attachment devices (example: see fig. 63, item 1).
- The stickers labeling the rear fixation points are found on the top rear of the frame on each side (example: see fig. 63, item 2).

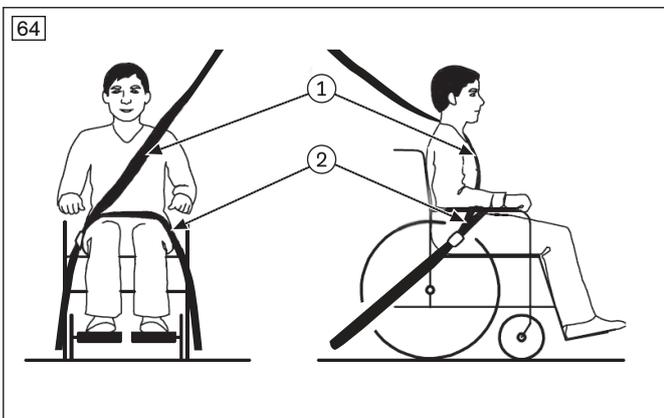


Attaching the belt loops

- 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) **Front 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 once or twice depending on the length (example: see fig. 65, item 1).
- 3) Engage the hook of the respective vehicle side wheelchair restraint belt in the belt loop (see fig. 65, item 2).
- 4) **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 (example: see fig. 66, item 1).
- 5) Engage the hook of the respective vehicle side wheelchair restraint belt in the belt loop (see fig. 66, item 2).
- 6) Tighten the vehicle side wheelchair restraint belts at the front and rear as firmly as possible.
→ The product showing the correct positioning of the attachment straps (see fig. 67).

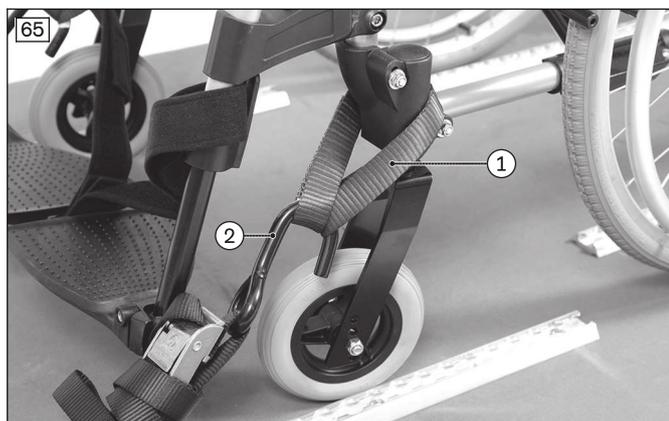
Information on correct transport safety of the user in the vehicle for transporting persons with reduced mobility

- 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. 64 item 2).
- The shoulder belt must always be routed over the user's shoulder (see fig. 64, 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) **Recommendation:** Fold the side panels back.
- 2) Pull each end of the restraint lap belt from the inner side of the seat through to the outside.
- 3) Engage the ends of the restraint lap belt on the mounting point/pin of the rear lashing straps on the left and right sides respectively (see fig. 68).
- 4) Secure the shoulder belt on the mounting point/pin provided on the lap belt (not illustrated).
- 5) Fold the side panels forward again.
 - The restraint lap belt is pulled through and fastened.
 - The belt runs respectively between the side panel and seat cushion.



7.26 Care

7.26.1 Cleaning

7.26.1.1 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.

7.26.1.2 Cleaning in a washing chamber/wheelchair washing system

- 1) Remove the seat cushion and upholstery, and follow the washing instructions for each article.
- 2) Verify the firm fit of the caster head cover.

NOTICE! The caster head cover must fit firmly so that no grease can be washed out of the ball bearings or displaced by compressed air. Otherwise damage to the bearing would result.

- 3) Wash the wheelchair at **max. 60 °C (140 °F)** for max. 10 minutes.

- 4) **If necessary:** Remove all components in which water has accumulated.
- 5) Allow the wheelchair to dry on all four wheels. Tilt the wheelchair slightly forward during this time so that water can drain from the frame.
INFORMATION: We recommend drying with compressed air.
- 6) **If necessary:** Reinstall all components that were removed.
- 7) Before storing or using the wheelchair again, verify that it is dry. Wipe wet components with a cloth as needed.
- 8) Ensure that all labels (nameplate and warnings) are still legible. Otherwise replace these labels.

Important information on cleaning

- Do not use any aggressive cleaners, solvents or hard brushes etc.
- The seat and back upholstery is machine washable at **max. 60 °C (140 °F)**.
- For more information on cleaning seat cushions, see the care instructions on the product or the supplied instructions for use.

7.26.1.3 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. 69).
- 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.



7.26.1.4 Cleaning belts/straps

INFORMATION

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

- Depending on the model, belts/straps with plastic buckles can be washed in the washing machine between **40 °C and 60 °C**.
- **Recommendation:** Use a laundry bag or net and mild detergent.
- Alternatively, the belt straps can be cleaned by gently dabbing them with warm soapy water (with some disinfectant) or carefully wiped 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.

7.26.2 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	
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.

General information

	Start M2S, Start M2
Max. load (in kg)	130
Weight [kg] (for seat width of 430 mm)	from 15.3 ¹⁾
Transport weights [kg] (for seat width of 430 mm)	Frame: from 10.2 ¹⁾ Leg support: approx. 1.4 ¹⁾ 24" drive wheels (pair): approx. 3.6 ¹⁾
Seat width [mm]	380/405/430/455/480/505/530 ²⁾
Seat depth [mm]	M2: 405/430/455/480/505 ²⁾ M2S: 430 ^{2);3)} (tool-free adjustment to 405/455)
Lower leg length [mm] (without cushion)	M2: 350–490; M2S: 420 ³⁾
Max. overall height [mm] (for rear seat height: 470 mm; back support height of 430 mm; push handle)	940
Min. tyre pressure [bar]	7 ⁴⁾
Maximum permissible inclination [°]/[%] ⁵⁾⁶⁾⁷⁾	7 / 12.3

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

²⁾ In accordance with ISO 7176-5, 8.12

³⁾ Factory setting, additional adjustments possible

⁴⁾ Varies according to tyre option; see the marking on the tyre wall.

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

Start M2, Start M2S	Minimum	Maximum
Total weight	M2: 15.3; M2S: 15.2	M2: 15.4; M2S: 15.3
Mass of the heaviest component [kg]	8.7	8.8
Overall length with foot supports [mm]	970	M2S: 1,045; M2: 1,087
Overall width [mm]	M2: 540; M2S: 565	690
Length (folded) [mm]	970	M2: 1,087; M2S: 1,045
Width (folded) [mm]	310	---
Height (folded) [mm]	940	990
Seat bottom angle [°]	0	5
Effective seat depth [mm]	405	M2: 505; M2S: 455
Effective seat width [mm]	380	505

Start M2, Start M2S	Minimum	Maximum
Front seat height [mm]	M2: 400 ¹⁾	M2: 510 ¹⁾ ; M2S: 490 ²⁾
Rear seat height [mm]	M2: 380	M2: 500; M2S: 470 ²⁾
Back support angle [°]	2	---
Back support height [mm]	M2: 400	M2: 475; M2S: 425 ²⁾
Adjustability of the back support [°]	0	30
Distance from leg support to seat [mm]	280	500
Distance from arm support to seat [mm]	200	220
Drive wheel size ["]	22 ³⁾	24
Caster wheel size ["]	5 ¹⁾	8
Angle foot support to seat bottom [°]	2	32
Handrim diameter, single handrims [mm]	500	530
Handrim diameter, double handrims [mm]	Inner ring: 355 Outer ring: 500	Inner ring: 405 Outer ring: 530
Minimum turning radius [mm]	747 ⁴⁾	M2: 877 ⁴⁾ ; M2S: 824 ⁴⁾
Positioning of the arm support [mm]	240	320

¹⁾ Deviating values for one-handed operation version

²⁾ Factory setting, additional adjustments possible

³⁾ 22" drive wheels only for M2 Hemi version

⁴⁾ In accordance with ISO 7176-5

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] ¹⁾	1,200 (plus 50 mm for the feet)
Width [mm] ¹⁾	700 (plus 50 mm on each side for the hands when moving)
Smallest wheels ["] ¹⁾	approx. 3 or greater (according to the directive, the smallest wheel must be able to overcome a gap measuring 75 mm horizontally and 50 mm vertically)
Height [mm] ¹⁾	max. 1,375 mm; including a 1.84 m large male wheelchair user (95th percentile)
Turning radius [mm] ¹⁾	1,500
Maximum weight [kg] ¹⁾	200 (for wheelchair and user, including any baggage)
Maximum obstacle height that can be overcome [mm] ¹⁾	50

Feature	Threshold value (according to Regulation (EU) No. 1300/2014)
Ground clearance [mm] ¹⁾	60 (at an upward slope angle of 10°, ground clearance must measure at least 60 mm under the foot support for going forward at the end of the slope)
Maximum inclination angle on which the wheelchair will remain stable [°] ¹⁾	6 (dynamic stability in all directions) 9 (static stability in all directions, also when wheel lock engaged)

¹⁾ Threshold value is always maintained with this product

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