ottobock.

Nurmi Neo

EN Instructions for use 3

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1 Foreword

INFORMATION

Date of last update: 2021-07-08

- ► Please read this document carefully before using the product and observe the safety notices.
- ► Instruct the user in the safe use of the product.
- ► Please contact the manufacturer 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 walking aid is a therapy device to compensate for a reduced capacity or performance of the lower limbs by using the strength and support of the upper limbs.

The walking aid promotes individual mobility and therefore independent living for people with limited ability to walk. It can, among other things, compensate for an uncertain gait, improve stability and the ability to maintain balance, support an upright body posture and/or reduce the risk of falling.

Positioned behind the body (posterior), the walking aid is open to the front. Thus, the walking aid promotes an upright gait and permits a longer stride length and optimum forward freedom of movement (e.g. when approaching furniture or for interaction with the surroundings).

The reverse-roll locks on the rear wheels prevent the walking aid from rolling back.

The product can be used on solid ground both indoors and outdoors.

2.2 Product overview

1

1	Handle of the grip bar	6	Swivel lock housing
2	Grip bar receiver	7	Front wheel
3	Rear frame with quick-release lever (cam lever)	8	Rear wheel
4	Front frame	9	Reverse-roll lock
5	Folding mechanism with star knob	10	Grip bar (here: standard version)

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 product is intended for everyday indoor and outdoor use by people with temporary or permanent limitations of the ability to walk or difficulty standing up and is used by the user.

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 product may only be used with the options that are listed on the product order form. Ottobock assumes no liability for combinations with medical devices and/or accessories for a medical device 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

- Mobility restrictions, limited ability to walk or strength deficits of the lower limbs that impair unassisted walking or make it impossible

3.3 Contraindications

3.3.1 Absolute Contraindications

- Inability to stand

3.3.2 Relative Contraindications

- Weak supporting function in the upper limbs

3.4 Qualification

This product may only be selected and adapted by qualified personnel. Compliance with all manufacturer specifications and all applicable legal provisions is required. Please contact the manufacturer's service department for further information (see inside or outside of rear cover for addresses).

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 assembly and adjustments

⚠ WARNING

Making incorrect adjustments

Risk of falling, tipping over or malposition of the user due to incorrect settings

- ► Settings may only be changed by qualified personnel unless otherwise prescribed.
- ► Before testing setting changes with the user, all screw connections must be firmly tightened.
- ► Check the product for safety and functionality after changing the settings.

⚠ CAUTION

Unsecured screw connections

Pinching, crushing, tipping over, falling of user due to assembly errors

- ► After all adjusting/readjusting work, retighten the attachment screws/nuts firmly.
- ► Please note that all adjustment levers are tightened by hand without the help of tools.

4.3 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

- ► 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

Improper handling of packaging materials

Risk of suffocation due to neglect of the duty to supervise

- ► Packaging materials must be kept out of the reach of children.

Hazards while driving and parking

⚠ CAUTION

Improper use of the product

Falling of the user due to neglect of the duty to supervise

- ► The product is a therapy aid and may only be used under supervision. Never leave your child unattended.
- ► Pay particular attention to potentially hazardous situations, e.g. crossing stairs or driving on sloped surfaces. Driving on steep slopes is not permitted.
- ► Do not place the product on steep inclines.
- ► In the interest of the user's safety, the correct function of the therapy aid must be checked before every use.

⚠ CAUTION

Improper use

User falling, tipping due to user error

- ► The product may be used only on solid, level surfaces.
- ► Make sure that the user does not drive against an obstacle without slowing down (e.g. against steps or edges).

⚠ CAUTION

Improper use of the grip bar

Falling, tipping over of the user due to user error

- ► Using the grip bar as a seat is not permitted.

⚠ CAUTION

Hanging heavy bags on the product may change the centre of gravity

Tipping over, rolling over of the user due to user error

- ► Do not hang heavy bags or the like on the therapy device.
- ► Observe the maximum load for each model (see section "Technical data").

Hazards due to defective tyres

⚠ CAUTION

Worn tyres

Falling of the user due to a loss of braking effect

- ► Extended use leads to tyre wear and therefore to a reduction of the braking effect.
- ► Replace worn or damaged wheels.
- ► Check the brake functionality regularly and correct the settings if necessary.

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

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.

⚠ 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.

4.3.1 Further information

INFORMATION

Please note that all options and add-on components will reduce the remaining load capacity.

4.4 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.

4.5 Further information

INFORMATION

Please note that all options and add-on components will reduce the remaining load capacity.

INFORMATION

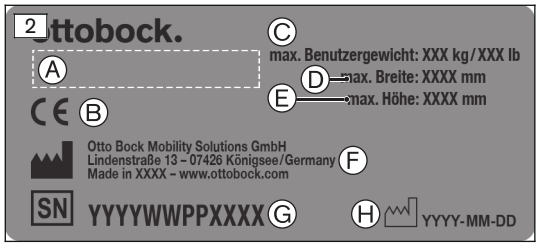
Please observe the indicated figures regarding body height and allowable user weight (see page 28).

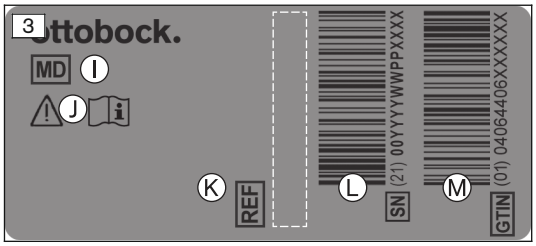
INFORMATION

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 9).

4.6 Nameplate

The nameplates are found on the frame.

Label		Meaning
	**A**	Manufacturer's product name
	B	CE marking
	C	Maximum user weight (see section "Technical data")
	D	Maximum width (see section "Technical data")
	E	Maximum height (see section "Technical data")
	F	Manufacturer information/address
	G	Serial number[1)]
	H	Manufacturing date[2)]

Label		Meaning
	**I**	Symbol for medical device
	J	**WARNING!** Read the instructions for use before using the product. Observe important safety-related information (e.g. warnings, precautions).
	K	Manufacturer's reference number for the product variant
	L	Serial number (PI)[3),1)]
	M	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

5 Delivery

5.1 Scope of delivery

- Nurmi Neo base frame
- Grip bar
- Options according to the order
- Instructions for use and required tools
- Instructions for use for accessories (depending on equipment)

5.2 Standard equipment

Standard equipment includes:

- Walking aid, folding
- Grip bar, standard, height and depth-adjustable
- Front wheels, swivelling
- Rear wheels, with reverse-roll lock
- Puncture-proof tyres

5.3 Options

The basic equipment may have been adapted to the needs of the user by adding options. For use of these options: see page 14 ff.

5.4 Storage

5.4.1 Storage during daily use

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

5.4.2 Storage during extended disuse

The product must be stored in a dry place. Specific information for extended storage: see page 28.

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 products with PU tyres (= tubeless tyres) must be released since tyre deformation may otherwise result.

6 Preparing the product for use

6.1 Assembly

⚠ CAUTION

Improper installation of options/accessories

Falling of the user due to incorrect installation, damage to optional components

- ► All options/accessory components must be installed by the qualified personnel unless they were pre-installed by the manufacturer. A few notes on installation are provided here for the benefit of the qualified personnel.
- ► Always mount options/accessory components so that the stability of the product is maintained.

⚠ CAUTION

Holding on to the product incorrectly while unfolding and folding

Pinching, crushing due to lack of caution in danger areas

- ► While folding the product, do not hold on to other parts than the ones described, especially the folding mechanism.
- ► Avoid pinching yourself on the frame components.

⚠ CAUTION

Improper adjustment of the grip bar

User tipping over or falling due to installation errors

- ► Check the height and depth of the grip bar each time after adjusting the grip bar. Correct the height and depth if needed, otherwise there may be a risk of tipping forward.
- ► Note that the highest adjustment of the grip bar is given by an extension limiter. Settings beyond this range are not permitted.

⚠ CAUTION

Improper locking of the grip bar

Pinching, crushing due to sliding down

- ► Note that the grip bar – even after the tripod springs engage at the maximum extension height – always has to be locked by engaging the cam lever.
- ► Verify that the grip bars have been set to the same height before using them.

⚠ CAUTION

Incorrect adjustment of the grip bar depth

User tipping over or falling due to installation errors

- ► The grip bar depth always has to be behind the swivel lock housing by a defined measurement. Please observe the following instructions.

INFORMATION

On the topic of disassembly/transport: see page 25.

Setting up the base frame

1) Remove the transport locks and packaging material. Lay the parts on the floor (see fig. 4).
2) Hold the base frame behind the front wheels and unfold it (see fig. 5).
   CAUTION! Always unfold the folding mechanism fully. Otherwise, there is a risk of tipping due to the base frame folding up unintentionally.
3) After unfolding, tighten the star knobs on both sides (see fig. 6).

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Attaching the grip bar

1) **If necessary:** Disengage the cam levers on both sides of the base frame.
2) Unfold the grip bar (see fig. 7) and insert it into the unfolded base frame (see fig. 8).
3) While inserting the grip bar, press the tripod springs (extension limiter) in. Slide the grip bar into the frame until the extension limiters on the left and right engage (see fig. 9).
   CAUTION! Note that the grip bar – even after the tripod springs engage at the maximum extension height – always has to be locked by engaging the cam lever.

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Adjusting the height of the grip bar

The height of the grip bar is continuously adjustable.

1) Slide the grip bar to the desired height and engage the cam lever on both sides of the base frame (see fig. 10). To do so, adjust the closing force of the cam lever by adjusting the knurled nut while the lever is disengaged (see fig. 11).
   INFORMATION: Subsequently, it must be possible to tightly engage the cam lever with high manual force.
2) Check the firm fit of the grip bar after engaging the lever.
   INFORMATION: The grip bar must not slide in with a standard load. Otherwise, the closing force of the cam lever has to be increased further by releasing the lever and turning the knurled nut clockwise again (see fig. 11).

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Adjusting the depth of the grip bar

The depth of the grip bar is continuously adjustable.

The grip bar depth has to be adjusted so that the front edge of the handles on the grip bar are behind the swivel lock housings by the measurement **A** (see fig. 13).

When using channel forearm supports, the front edge of the channels has to be behind the swivel lock housings by the measurement **A**.

Minimal length of A with...	Nurmi Neo, size 1	Nurmi Neo, size 2	Nurmi Neo, size 3
... Grip bar, standard	110 mm	150 mm	190 mm
... Grip bar with universal handles	110 mm	150 mm	190 mm
... Grip bar, mini	110 mm	150 mm	190 mm
... Grip bar, extra high, with channel forearm supports	180 mm	200 mm	220 mm

1) Adjust the grip bar depth evenly on both sides and firmly tighten the clamping screws on both sides (see fig. 12).
2) To check, place the Nurmi Neo with the swivel lock housings against a smooth door (see fig. 13).

3) Measure the distance from the door panel to the end of the handle or channel forearm support.
INFORMATION: In this process, the swivel lock housings have to be pushed fully onto the front frame and the caster wheels turned at an angle.

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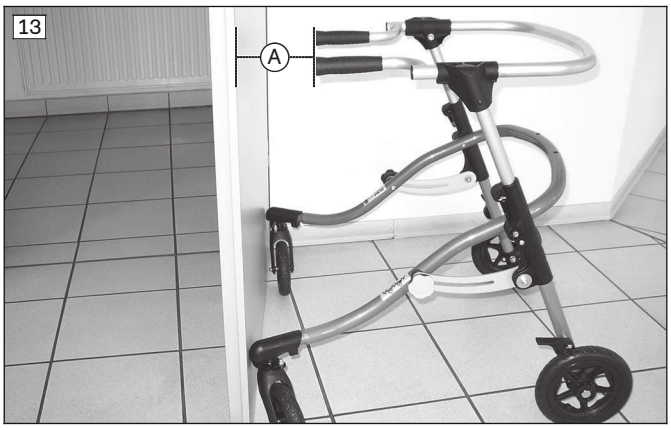

7 Delivery

7.1 Transport to the customer

NOTICE

Use of unsuitable packaging

Damage to the product caused by transportation using incorrect packaging

► Use only the original packaging for delivery of the product.

7.2 Handing over the product

⚠ WARNING

Lack of instruction

Tipping over, falling of the user due to lack of knowledge

► Instruct the user or the attendant in the proper use of the product when handing it over.

The following steps must be performed for the safe delivery of the product:

- Conduct a standing test with the user of the product. Pay special attention to a proper standing position according to medical considerations.
- Instruct the user and attendants in the safe use of the product. Use the enclosed instructions for use for this purpose.
- The instructions for use must be given to the user/attendant upon delivery of the product.

8 Use

8.1 Basic functions

8.1.1 Adjusting the grip bar (standard)

The height and depth of the grip bar are continuously adjustable.

Further information on adjustment is found in the section "Assembly" (see page 11 ff.). Pay special attention to the safety instructions for adjusting the hand grips.

Further information on the optional grip bars: see page 16.

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8.1.2 Using the reverse-roll lock

⚠ CAUTION

Malfunction of the reverse-roll lock

Falling, tipping over of the user due to incorrect maintenance

- ► Check the functionality of the reverse-roll lock regularly and correct it if necessary.
- ► Replace worn or damaged wheels.

The walking aid is equipped with reverse-roll locks to protect the user against the possibility of falling backwards.

Activating the reverse-roll lock

1) Push the reverse-roll locks on both sides in against the springs.
2) Swing the reverse-roll locks down (see fig. 16).

Deactivating the reverse-roll lock

1) Push the reverse-roll locks on both sides in against the springs.
2) Swing the reverse-roll locks up (see fig. 17).

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8.2 Additional options

⚠ CAUTION

Improper installation of options/accessories

Falling of the user due to incorrect installation, damage to optional components

- ► All options/accessory components must be installed by the qualified personnel unless they were pre-installed by the manufacturer. A few notes on installation are provided here for the benefit of the qualified personnel.
- ► Always mount options/accessory components so that the stability of the product is maintained.

8.2.1 Grab rail

8.2.1.1 Grip bar with universal grips

⚠ CAUTION

Improper adjustment of the adjustable grips

User tipping over due to installation errors

► Note that a setting of the adjustable grips to the outside beyond the grip bar is not permitted.

The height and depth of the grip bar are continuously adjustable.

Further information on adjustment is found in the section "Assembly" (see page 11 ff.). Pay special attention to the safety instructions for adjusting the hand grips.

Additional adjustment possibility

With this grip bar, the distance between the grips and the handle height of the hand grips can also be adjusted.

1) Pull out the caps (not illustrated).
2) Loosen the screw connections that are now exposed (see see fig. 18).
3) Twist the two hand grips, thereby adjusting the distance between the grips and the handle height (see page 28).
   CAUTION! The hand grips may only be adjusted within the grip bars (see fig. 19).
4) After adjustment, firmly retighten the screw connections.
5) Reinsert the caps (not illustrated).

8.2.1.2 Grip bar, mini

⚠ CAUTION

Improper adjustment of the adjustable hand grips

User tipping over due to installation errors

► Note that swinging the adjustable hand grips up or out beyond the grip bar is not permitted.

The height and depth of the grip bar are continuously adjustable.

Further information on adjustment is found in the section "Assembly" (see page 11 ff.). Pay special attention to the safety instructions for adjusting the hand grips.

Additional adjustment possibility

Especially low handle heights and a short distance between the grips can be set with this grip bar (see fig. 20). The adjustment is carried out as described in the previous section.

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8.2.1.3 Grip bar, extra high, with channel forearm rests

⚠ CAUTION

Improper adjustment of the hand grips/channel forearm rests

User tipping over due to installation errors

► Note that a setting of the adjustable hand grips/channel forearm rests to the outside beyond the grip bar is not permitted.

The height and depth of the grip bar are continuously adjustable.

Further information on adjustment is found in the section "Assembly" (see page 11 ff.). Pay special attention to the safety instructions for adjusting the hand grips.

Additional adjustment possibility

The channel forearm rests with vertical hand grips were developed as a solution for users who are unable to support themselves safely on their extended arms. Here the channel forearm rests offer additional support.

The height of the channel forearm rests and vertical hand grips is adjusted together with the grip bars. Further information is found in the section "Assembly" (see page 11 ff).

The depth and angle of the vertical hand grips as well as the depth of the channel forearm rests and the distance between the channel forearm rests can also be adjusted.

Adjusting the hand grips

1) Loosen the screws under the channel forearm rest (see fig. 21, item 2).
2) Adjust the angle and depth of the hand grip (see fig. 21, item 1).
   CAUTION! The distance between the channel forearm rest and hand grip should be adjusted so as to avoid pressure points and cramped postures.
3) Retighten the screws.

Adjust the depth of the channel forearm rest

1) Remove the pad from the channel forearm rest (see fig. 22, item 1).
2) Loosen the screws on the channel forearm rest (see fig. 22, item 2).
3) Adjust the depth of the channel forearm rest.
   CAUTION! The distance between the channel forearm rest and hand grip should be adjusted so as to avoid pressure points and cramped postures.
4) Retighten the screws.

Adjusting the distance between the channel forearm rests

1) Loosen the clamping screws on the grip bar (see fig. 21, item 3).
2) Adjust the continuously variable distance between the channel forearm rests (see page 28).
   CAUTION! The distance between the channel forearm rests should be adjusted so as to avoid pressure points and cramped postures. The channel forearm rests may only be adjusted within the range shown (see fig. 23).
3) Firmly retighten the clamping screws on the grip bar.

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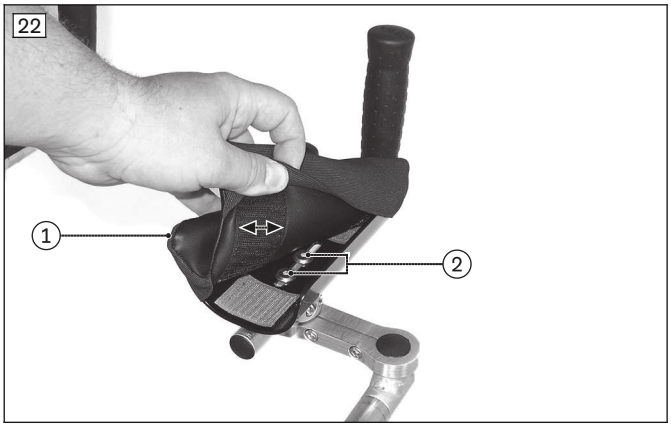

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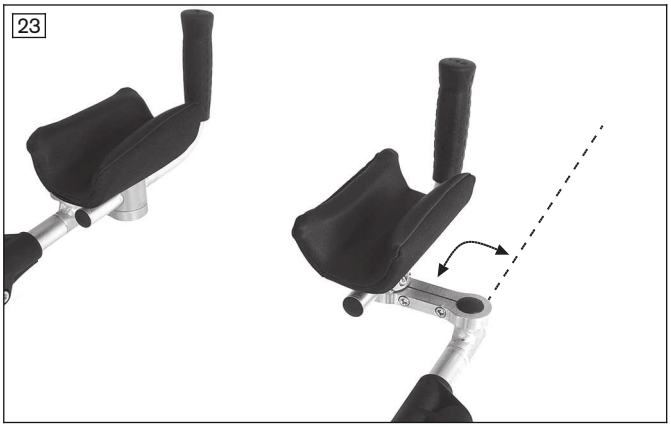

8.2.2 Storage bag

NOTICE

Overloading

Damage due to failure to observe specifications

- ► Observe the maximum load of the storage basket (see page 28).
- ► Please note that the maximum load of the overall product must not be exceeded even after loading the storage basket.

The storage basket is available in 2 different sizes (see page 28).

Installing the storage basket

1) Rivet an anti-twist device for a quick-release lock to the grip bar (see fig. 24).
2) Mount the storage basket on the grip bar, centred or offset to the side (when using a gluteal support) (see fig. 25).
3) Use the quick-release lock to take the storage basket off the grip bar.

Removing/attaching the storage basket

1) Press the quick-release lock and take the storage basket off the holder.
2) Set the storage basket onto the holder and push it down.

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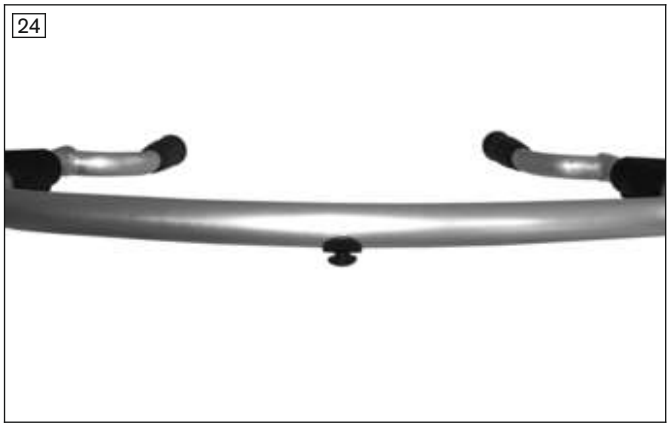

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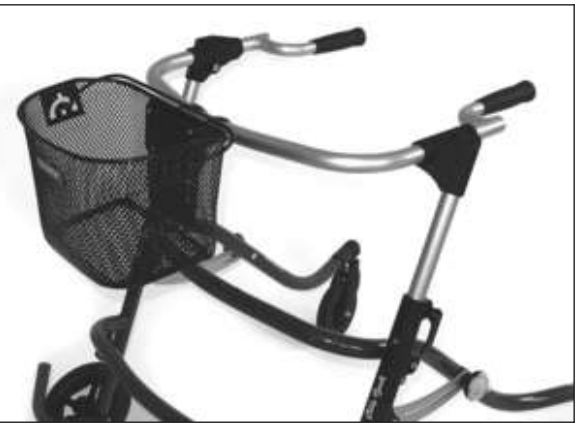

8.2.3 Driving brake and wheel lock

⚠ CAUTION

Insufficient braking

Falling, tipping over of the user due to loss of braking function

- ► Check the proper functioning of the wheel lock regularly and correct it if necessary.
- ► Replace worn or damaged wheels.

The wheel lock allows controlled braking and safely parking the therapy aid without it rolling away.

Engaging the wheel lock

1) Pull the wheel lock lever.
2) Engage the retaining claw with your index finger (see fig. 26). The wheel lock lever is engaged.

Releasing the wheel lock

1) Pull the wheel lock lever slightly.
2) The retaining claw opens and releases the wheel lock.

Adjusting the wheel lock

1) If the braking function is insufficient, readjust the respective brake cable with the adjustment screw (see fig. 27).
2) Verify the braking function. Make sure the braking function is adequate when the wheel lock lever is locked with the retaining claw.

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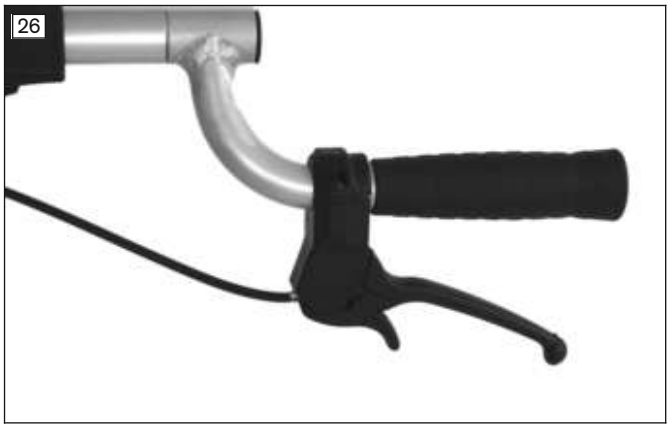

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8.2.4 Gluteal support and combined gluteal and pelvic support

The gluteal support (see fig. 28) and combined gluteal and pelvic support (see fig. 29) are for optimum position of the user in the area of the grip bar.

Adjusting the gluteal support

The gluteal supports can be adjusted in three dimensions:

1) **Depth adjustment:** Loosen the screw connection and push the support ahead/back (see fig. 28, item 1; see fig. 29, item 1). Re-tighten the screw connection.

2) **Height adjustment:** Loosen the screw connection on the clamp adapter. Rotate the clamp adapter with the support up/down (see fig. 28, item 2; see fig. 29, item 2). Re-tighten the screw connection.
3) **Angle adjustment:** Disengage the clamping lever and rotate the support up/down (see fig. 28, item 3; see fig. 29, item 3). Close the clamping lever again tightly.

Adjusting the pelvic support

The width of the pelvic support on the combined gluteal and pelvic support can be adjusted in addition. Especially narrow settings are possible by removing the centre gluteal support:

1) **Additional width adjustment:** Loosen the 2 screws on the pelvic support and slide the pelvic support to the left/right (see fig. 29, item 4). Re-tighten the screw connection.
2) **Removing the gluteal support:** Loosen the screw connection on the clamp adapter and remove the gluteal support (see fig. 29, item 5). Re-tighten the screw connection.

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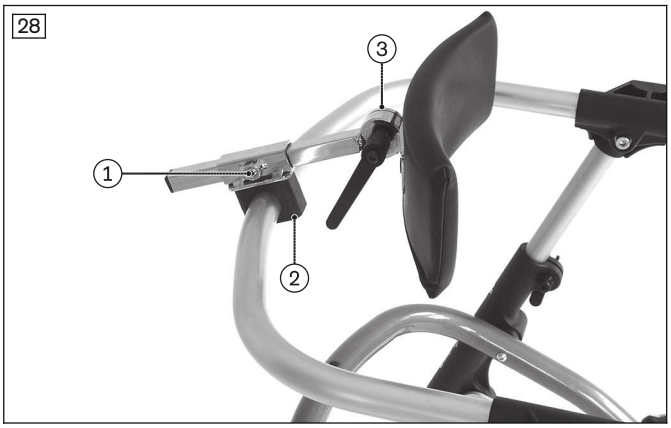

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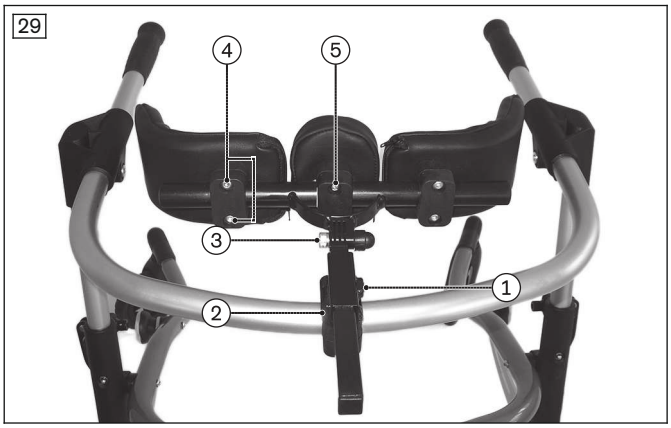

8.2.5 Anti-tipper

The anti-tipper increases the stability against tipping backwards and is offered to match each model size.

Anti-tippers always have to be installed in pairs.

Installing the anti-tipper

1) Press in the tripod spring on the anti-tipper bar (see fig. 30).
2) Insert the anti-tipper bars into the existing anti-tipper holders and secure them against twisting with the tripod springs.

Deactivating the anti-tipper

1) **If necessary:** Press in the tripod spring on the anti-tipper bar (see fig. 30).
2) Swing the anti-tipper bars up out of the way (see fig. 31, rear).

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8.2.6 Swivel lock

INFORMATION

Retrofitting a swivel lock may only be carried out by qualified personnel.

If needed, the caster wheels can be locked with the integrated swivel lock. This function improves the directional stability while driving.

The swivel lock is especially well suited for the early therapy phase, since increased manoeuvrability also requires greater coordination skills of the user.

Engaging (activating) the swivel lock

1) Face both caster wheels straight ahead.
2) Pull the swivel lock casing to the front until the swivel lock casing surrounds the cap nut (see fig. 32, item 1).

Disengaging (deactivating) the swivel lock

1) Push the swivel lock casing backward against the direction of travel (see fig. 32).
2) The cap nut is exposed and the caster wheel can turn freely in all directions again.

Adjusting the swivel lock

1) To adjust the directional stability, loosen the cap nut until the screw can slide in the slotted hole (see fig. 33).
2) Engage the swivel lock and adjust the directional stability of the front wheel. Turn the ball head to the left or right if needed (not illustrated).
3) Slightly tighten the screw under the retaining plate with a 10 mm open-end wrench.
4) Open the swivel lock, turn the wheel to the outside and firmly tighten the screw with two 10 mm open-end wrenches (see fig. 33).

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8.2.7 Friction brake

⚠ CAUTION

Malfunction of the friction brake

Rolling away, tipping over of the user due to incorrect adjustment

- ► Check the proper functioning of the friction brake regularly and correct the setting if necessary.
- ► Replace worn or damaged wheels immediately.

The friction brake is used for the controlled slowing of the rollover process.

Readjusting the friction brake

- ► Adjust the pressure of the friction brake on the wheel hub by turning the interior set screw in or out (see fig. 34).

8.2.8 Seat

⚠ CAUTION

Overloading the bench seat

Falling due to damage to the product

- ► Connecting elements could break if the seat bank is subjected to a load greater than the allowable load, and result in your child falling.
- ► Do not exceed the maximum allowable load of the main product (see page 28).

The seat (see fig. 35) allows the user to rest while using the children's walker.

Using the seat

1) Set the seat upright while walking.
2) Fold the seat down to use it.

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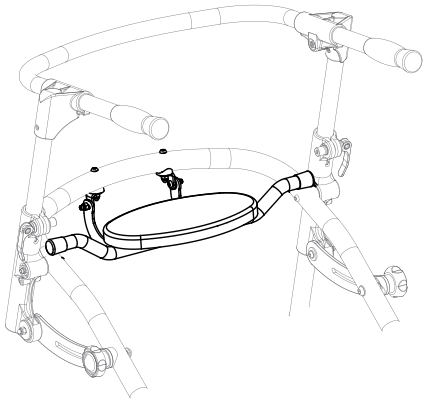

8.2.9 Sling Seat

⚠ CAUTION

Ignition of fabrics

Burns due to user error

- ► The groin strap is not easily flammable ('schwerentflammbar') according to the requirements of the ISO 8191-2 or DIN EN 1021-2 standard. However, it may still ignite if fire is handled improperly or negligently.
- ► Keep away from all ignition sources, especially lit cigarettes.

⚠ CAUTION

Overloading the Sling Seat

Falling due to damage to product

- ► Overloading the Sling Seat beyond the approved load could cause the straps to break, making your child fall.
- ► Do not exceed the maximum load for the overall product (see page 28).

⚠ CAUTION

Prohibited use of the strap clips

Risk of falling if the strap clips open suddenly

- ► Always close both strap clips on the back in the day-to-day use of the Sling Seat.

The Sling Seat groin strap (see fig. 36: engaged; see fig. 37: top view) provides effective support for the user during walking training. Children can take a break at any time while walking and are protected against falling in case of sudden fatigue/uncertainty.

The Sling Seat is attached to the Nurmi Neo with four length-adjustable straps (see fig. 36, item 1/2).

The groin strap is very easy to release from the straps with the help of the plastic buckles. For this purpose, the rear straps have 3F safety buckles that are opened with two hands (see fig. 36, item 1). 2F standard buckles are used on the front straps (see fig. 36, item 2).

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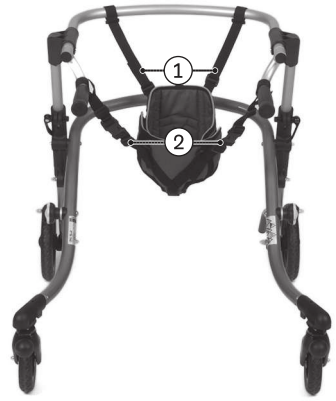

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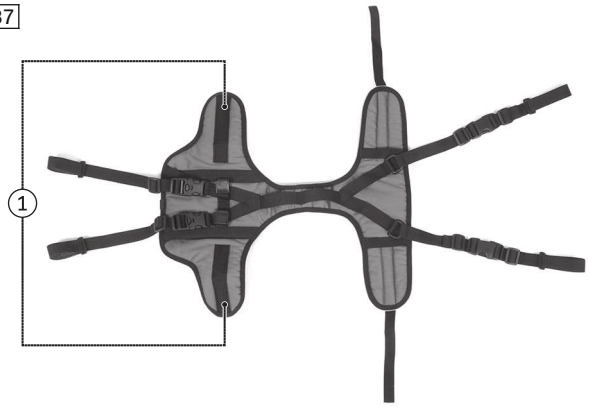

Installing the Sling Seat (Nurmi Neo with standard grip bars)

INFORMATION

- ► Initially perform the following steps on only one strap, so you have an assembled installation sample in front of you at all times.
- ► Note that the installation possibility described in this section can also be used alternatively when optional grip bars are installed.

Since the hand grips on the standard grip bars cannot be unscrewed, the attachment loops of the rear strap (see fig. 38, item 1) have to be opened to put them around the cross tube of the grip bar.

1) Unthread the free end of the strap (see fig. 38, item 1) first from the strap tightener (see fig. 38, item 2) and then from the 3F safety buckle (see fig. 38, item 3).
2) Pull the strap off the strap tightener and open the attachment loop.
3) Put the free strap end around the cross tube of the grip bar and close the attachment loop.
4) Thread the free end of the strap through the strap tightener and 3F safety buckle again.

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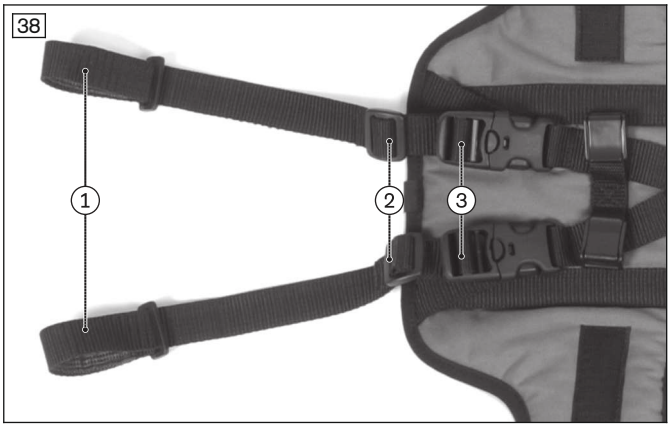

Installing the Sling Seat (Nurmi Neo with optional grip bars)

INFORMATION

Make sure that all straps are attached without twists.

1) Remove the hand grips and grip bar (see fig. 39, see fig. 40).
2) Slide the loops of the rear straps, rubberised on the inside, over the grip bar (see fig. 41).
   INFORMATION: Make sure that the rubberised inside of the loops is on the metal to prevent slipping.
3) Reinstall the grip bar and hand grips.
4) Slide the loops of the front straps over the hand grips (see fig. 42).
5) Fasten the hook-and-loop closures of the groin strap (see fig. 37, item 1).

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Adjusting the height of the Sling Seat

When adjusting the height of the groin strap with the help of the strap tightener, the child should be standing with the soles of both feet firmly and safely on the floor when the straps are tight.

1) Measure the child's leg length.
2) Use the strap tighteners on the four straps.
3) Unthread the free strap end from the strap tightener and pull the strap through the deflector of the 2F standard buckles/3F safety buckles to the correct height (see fig. 42).
4) Secure the height adjustment by threading the strap into the strap tightener again.
5) Correct the height adjustment as needed.

Using the Sling Seat

1) Stand the child over the opened Sling Seat and tightly fasten the groin strap using the hook-and-loop closures on the sides (see fig. 37, item 1).
2) Correct the height adjustment with the strap tighteners as needed.
3) Fasten the two strap clips at the back (see fig. 43).
   CAUTION! Note that the Sling Seat could open suddenly if the strap clips are not fastened.

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8.3 Disassembly and transport

⚠ CAUTION

Holding on to the product incorrectly while unfolding and folding

Pinching, crushing due to lack of caution in danger areas

- ► While folding the product, do not hold on to other parts than the ones described, especially the folding mechanism.
- ► Avoid pinching yourself on the frame components.

NOTICE

Deformation when folded

Damage to the product, problems unfolding due to unallowable loads

- ► Never place heavy objects on the folded product.

Folding the base frame

1) Loosen the star screws on both sides of the folding levers (see fig. 44).
2) Hold the walking aid by the hand grips and lift, or tilt it over the rear wheels.
   → The front frame folds in (see fig. 45).
   NOTICE! Tighten the star screws to secure the walking aid so it cannot unfold unintentionally.

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Removing the grip bar

For an especially small folding size, the grip bars can also be removed.

1) Release the cam levers on both sides of the base frame (see fig. 46, item 1).
2) Pull the grip bars up out of the base frame until the tripod springs engage (extension limiter) (not illustrated).
3) Press in the tripod springs (extension limiter) (see fig. 46, item 2).
4) Pull the grip bar out of the base frame and fold it (see fig. 47).

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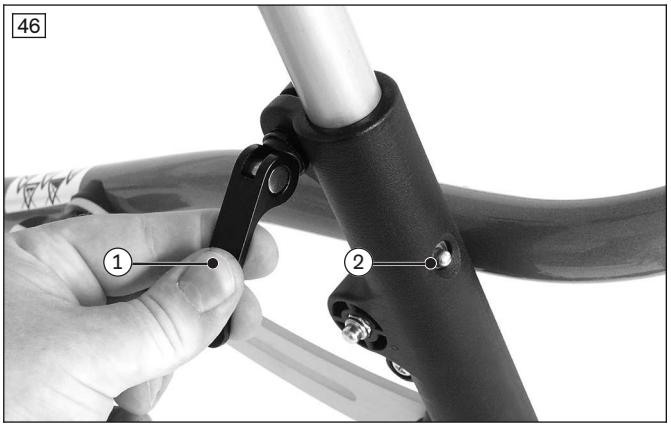

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8.4 Care

⚠ 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.
- ► Check the driving behaviour of the product after cleaning it.

8.4.1 Cleaning

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

Important information on cleaning

- Use warm soapy water for cleaning. Add some disinfectant if needed. Carefully dab the product with a damp cloth or sponge and wipe with a dry, clean cloth.
- Do not use any aggressive cleaners, solvents or hard brushes etc.
- Do not expose the product to direct heat (e.g. sunlight, stove or radiator heat).
- Wash the Sling Seat option at **40 °C (104 °F)**. In most cases, wiping with a damp cloth is sufficient.

8.4.2 Disinfection

- Thoroughly clean the product before disinfecting.
- Wipe all parts of the product with a disinfectant.
- Only use colourless water-based disinfectants. Observe the instructions for use provided by the manufacturer.

9 Maintenance and repair

9.1 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**.

⚠ CAUTION

Damage to the product, unexpected noise or odours

Health problems for the user

- ► 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 uncontrollable driving behaviour as well as sounds that are unexpected or previously not noted that deviate significantly from the state of the product at the time of delivery.
- ► Contact the qualified personnel.
- ► Report damage to the product that may cause health problems for the user to Ottobock.

- The function of the product should be checked **before each use**.
- Check the product **monthly** for wear and damage.
- Replace all worn or damaged components immediately.
- Some maintenance tasks can be carried out to a certain extent by the user at home (see the section “Maintenance intervals”).
- Failure to maintain the product can lead to injuries for the user of the product.

9.1.1 Maintenance intervals

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

To be checked before use	Daily	Weekly	Monthly
Check the grip bar for firm fit	X		
Function test of the reverse-roll lock	X		
Function test of the brake/wheel lock (option)	X		
Check the screw connections between the wheels and frame		X	
Check screw connections on front/rear wheel		X	
Visual examination of wear and tear parts, for example wheels and bearings			X
Check the legibility of all labels and markings on the product			X

9.2 Repair

⚠ WARNING

Prohibited repairs

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

► All repairs may only be carried out by qualified personnel.

10 Disposal

10.1 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.

10.2 Information on re-use

The product is suitable for re-use.

Similar to second-hand machines or vehicles, products that are being re-used are subject to increased strain. Features and performance must not change in a way that could impair the safety of users or third parties during the period of use.

The relevant product must be thoroughly cleaned and disinfected before re-use. Then have the product inspected by qualified personnel with respect to its condition, wear and tear, and damage. Worn and damaged parts as well as components that do not fit or are unsuitable for the user must be replaced.

Detailed information on replacing components as well as information on the required tools can be found in the service manual.

11 Legal information

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

11.1 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.

11.2 Warranty

Further information regarding the warranty terms and conditions may be obtained from the qualified personnel who have fitted this product, or from the manufacturer's customer service department (see inside back cover of the wheelchair instructions for use for addresses).

11.3 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.

12 Technical data

Dimensions and weights	Size 1	Size 2	Size 3
Models	HR24160000	HR24260000	HR24360000
Grip bar, standard – push handle height [mm]	450–570	580–720	640–850
Grip bar, standard – distance between handles [mm]	410	460	510
Grip bar with universal handles – push handle height [mm]	380–570	510–720	570–850
Grip bar with universal handles – distance between handles [mm]	270–410	320–460	370–510
Mini grip bar – push handle height [mm]	310–480	---	---
Mini grip bar – distance between handles [mm]	200–410	---	---
Grip bar with channel forearm support – push handle height [mm]	540–660	660–790	720–940
Grip bar with channel forearm support – distance between handles [mm]	410	460	510
Grip bar with channel forearm support – height of channel forearm supports from the floor [mm]	530–750	680–910	710–950
Grip bar with channel forearm support – distance between channel forearm supports (centre) [mm]	250–410	300–460	350–510
Grip bar with channel forearm support – width x length (inside) of channel forearm support [mm]	70 x 160	70 x 210	70 x 210
All grip bars – handle diameter [mm]	30	30	30
Maximum width [mm]	650	680	740
Overall length [mm] (with anti-tipper +100 mm)	650	760	830
Folding size (L x W x H) [mm][1)]	650 x 650 x 240	760 x 680 x 240	850 x 740 x 240
Front wheel diameter [mm]	150	150	150
Rear wheel diameter [mm]	150	200	200
Maximum load (user weight) [kg]	25	40	55
Weight [kg]	5.5	6	6.5
Seat height [mm]	300	450	480
Turning diameter (without accessories) EN 11199 [mm]	860	990	1,060
Maximum load of storage basket [kg][2)]	HR24168200 (small): 5		
	HR24268200 (large): 7		

[1)] Folding size without grip bar. For removing the grip bar: see page 25.

[2)] Please note that the maximum load of the overall product must not be exceeded, also after loading the storage basket.

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 [%]	10 to 85; non-condensing

Kundenservice/Customer Service

Europe

Otto Bock HealthCare Deutschland GmbH
Max-Näder-Str. 15 · 37115 Duderstadt · Germany
T +49 5527 848-3433 · F +49 5527 848-1460
healthcare@ottobock.de · www.ottobock.de

Otto Bock Healthcare Products GmbH
Brehmstraße 16 · 1110 Wien · Austria
F +43 1 5267985
service-admin.vienna@ottobock.com · www.ottobock.at

Otto Bock Adria d.o.o. Sarajevo
Ramiza Salčina 85
71000 Sarajevo · Bosnia-Herzegovina
T +387 33 255-405 · F +387 33 255-401
obadria@bih.net.ba · www.ottobockadria.com.ba

Otto Bock Bulgaria Ltd.
41 Tzar Boris III' Blvd. · 1612 Sofia · Bulgaria
T +359 2 80 57 980 · F +359 2 80 57 982
info@ottobock.bg · www.ottobock.bg

Otto Bock Suisse AG
Luzerner Kantonsspital 10 · 6000 Luzern 16 · Suisse
T +41 41 455 61 71 · F +41 41 455 61 70
suisse@ottobock.com · www.ottobock.ch

Otto Bock ČR s.r.o.
Protetická 460 · 33008 Zruč-Senec · Czech Republic
T +420 377825044 · F +420 377825036
email@ottobock.cz · www.ottobock.cz

Otto Bock Iberica S.A.
C/Majada, 1 · 28760 Tres Cantos (Madrid) · Spain
T +34 91 8063000 · F +34 91 8060415
info@ottobock.es · www.ottobock.es

Otto Bock France SNC
4 rue de la Réunion - CS 90011
91978 Courtaboeuf Cedex · France
T +33 1 69188830 · F +33 1 69071802
information@ottobock.fr · www.ottobock.fr

Otto Bock Healthcare plc
32, Parsonage Road · Englefield Green
Egham, Surrey TW20 0LD · United Kingdom
T +44 1784 744900 · F +44 1784 744901
bockuk@ottobock.com · www.ottobock.co.uk

Otto Bock Hungária Kft.
Tatai út 74. · 1135 Budapest · Hungary
T +36 1 4511020 · F +36 1 4511021
info@ottobock.hu · www.ottobock.hu

Otto Bock Adria d.o.o.
Dr. Franje Tuđmana 14 ·10431 Sveta Nedelja · Croatia
T +385 1 3361 544 · F +385 1 3365 986
ottobockadria@ottobock.hr · www.ottobock.hr

Otto Bock Italia Srl Us
Via Filippo Turati 5/7 · 40054 Budrio (BO) · Italy
T +39 051 692-4711 · F +39 051 692-4720
info.italia@ottobock.com · www.ottobock.it

Otto Bock Benelux B.V.
Mandenmaker 14 · 5253 RC
Nieuwkuijk · The Netherlands
T +31 73 5186488 · F +31 73 5114960
info.benelux@ottobock.com · www.ottobock.nl

Industria Ortopédica Otto Bock Unip. Lda.
Av. Miguel Bombarda, 21 - 2º Esq.
1050-161 Lisboa · Portugal
T +351 21 3535587 · F +351 21 3535590
ottobockportugal@mail.telepac.pt

Otto Bock Polska Sp. z o. o.
Ulica Koralowa 3 · 61-029 Poznań · Poland
T +48 61 6538250 · F +48 61 6538031
ottobock@ottobock.pl · www.ottobock.pl

Otto Bock Romania srl
Şos de Centura Chitila - Mogoşoaia Nr. 3
077405 Chitila, Jud. Ilfov · Romania
T +40 21 4363110 · F +40 21 4363023
info@ottobock.ro · www.ottobock.ro

OOO Otto Bock Service
p/o Pultikovo, Business Park „Greenwood“,
Building 7, 69 km MKAD
143441 Moscow Region/Krasnogorskiy Rayon
Russian Federation
T +7 495 564 8360 · F +7 495 564 8363
info@ottobock.ru · www.ottobock.ru

Otto Bock Scandinavia AB
Postal: Box 4041 · 169 04 Solna · Sweden
Visiting: Barks Väg 7, Solna, Sweden
SE: T +46 11 28 06 89 · NO: T +47 23142600
FI: T +35 8 10 400 6940 · DK: T +45 70 22 32 74
To order: order@ottobock.se
Inquiries: info@ottobock.se
professionals.ottobock.se

Otto Bock Slovakia s.r.o.
Röntgenova 26 · 851 01 Bratislava 5 · Slovak Republic
T +421 2 32 78 20 70 · F +421 2 32 78 20 89
info@ottobock.sk · www.ottobock.sk

Otto Bock Sava d.o.o.
Industrijska bb · 34000 Kragujevac · Republika Srbija
T +381 34 351 671 · F +381 34 351 671
info@ottobock.rs · www.ottobock.rs

Otto Bock Ortopedi ve
Rehabilitasyon Tekniği Ltd. Şti.
Mecidiyeköy Mah. Lati Lokum Sok.
Meriç Sitesi B Blok No: 30/B
34387 Mecidiyeköy-İstanbul · Turkey
T +90 212 3565040 · F +90 212 3566688
info@ottobock.com.tr · www.ottobock.com.tr

Africa

Otto Bock Algérie E.U.R.L.
32, rue Ahcène Outaleb - Coopérative les Mimosas
Mackle-Ben Aknoun · Alger · DZ Algérie
T +213 21 913863 · F +213 21 913863
information@ottobock.fr · www.ottobock.fr

Otto Bock Egypt S.A.E.
28 Soliman Abaza St. Mohandessein - Giza · Egypt
T +20 2 37606818 · F +20 2 37605734
info@ottobock.com.eg · www.ottobock.com.eg

Otto Bock South Africa (Pty) Ltd
Building 3 Thornhill Office Park · 94 Bekker Road
Midrand · Johannesburg · South Africa
T +27 11 564 9360
info-southafrica@ottobock.co.za
www.ottobock.co.za

Americas

Otto Bock Argentina S.A.
Av. Belgrano 1477 · CP 1093
Ciudad Autônoma de Buenos Aires · Argentina
T +54 11 5032-8201 / 5032-8202
atencionclientes@ottobock.com.ar
www.ottobock.com.ar

Otto Bock do Brasil Tecnica Ortopédica Ltda.
Alameda Maria Tereza, 4036, Bairro Dois Córregos
CEP: 13.278-181, Valinhos-São Paulo · Brasil
T +55 19 3729 3500 · F +55 19 3269 6061
ottobock@ottobock.com.br · www.ottobock.com.br

Otto Bock HealthCare Canada
5470 Harvester Road
Burlington, Ontario, L7L 5N5, Canada
T +1 800 665 3327 · F +1 800 463 3659
CACustomerService@ottobock.com
www.ottobock.ca

Sucursal Otto Bock Cuba
Centro de Negocios Miramar
Edificio Jerusalen Oficina 112
Calle 3ra e/ 78 y 80.
Playa La Habana, Cuba
T +53 720 430 69 · +53 720 430 81
hector.corcho@ottobock.com.br
www.ottobock.com.br

Otto Bock HealthCare Andina Ltda.
Calle 138 No 53-38 · Bogotá · Colombia
T +57 1 8619988 · F +57 1 8619977
info@ottobock.com.co · www.ottobock.com.co

Otto Bock de Mexico S.A. de C.V.
Prolongación Calle 18 No. 178-A
Col. San Pedro de los Pinos
C.P. 01180 México, D.F. · Mexico
T +52 55 5575 0290 · F +52 55 5575 0234
info@ottobock.com.mx · www.ottobock.com.mx

Otto Bock HealthCare LP
11501 Alterra Parkway Suite 600
Austin, TX 78758 · USA
T +1 800 328 4058 · F +1 800 962 2549
USCustomerService@ottobock.com
www.ottobockus.com

Asia/Pacific

Otto Bock Australia Pty. Ltd.
Suite 1.01, Century Corporate Centre
62 Norwest Boulevarde
Baulkham Hills NSW 2153 · Australia
T +61 2 8818 2800 · F +61 2 8814 4500
healthcare@ottobock.com.au · www.ottobock.com.au

Beijing Otto Bock Orthopaedic Industries Co., Ltd.
B12E, Universal Business Park
10 Jiuxianqiao Road, Chao Yang District
Beijing, 100015, P.R. China
T +8610 8598 6880 · F +8610 8598 0040
news-service@ottobock.com.cn
www.ottobock.com.cn

Otto Bock Asia Pacific Ltd.
Unit 1004, 10/F, Greenfield Tower, Concordia Plaza
1 Science Museum Road, Tsim Sha Tsui
Kowloon, Hong Kong · China
T +852 2598 9772 · F +852 2598 7886
info@ottobock.com.hk · www.ottobock.com

Otto Bock HealthCare India Pvt. Ltd.
20th Floor, Express Towers
Nariman Point, Mumbai 400 021 · India
T +91 22 2274 5500 / 5501 / 5502
information@indiaottobock.com · www.ottobock.in

Otto Bock Japan K. K.
Yokogawa Building 8F, 4-4-44 Shibaura
Minato-ku, Tokyo, 108-0023 · Japan
T +81 3 3798-2111 · F +81 3 3798-2112
ottobock@ottobock.co.jp · www.ottobock.co.jp

Otto Bock Korea HealthCare Inc.
4F Agaworld Building · 1357-74, Seocho-dong
Seocho-ku, 137-070 Seoul · Korea
T +82 2 577-3831 · F +82 2 577-3828
info@ottobockkorea.com · www.ottobockkorea.com

Otto Bock South East Asia Co., Ltd.
1741 Phaholyothin Road
Kwaeng Chatuchark · Khet Chatuchark
Bangkok 10900 · Thailand
T +66 2 930 3030 · F +66 2 930 3311
obsea@otttobock.co.th · www.ottobock.co.th

Other countries

Ottobock SE & Co. KGaA
Max-Näder-Straße 15 · 37115 Duderstadt · Germany
T +49 5527 848-1590 · F +49 5527 848-1676
reha-export@ottobock.de · www.ottobock.com

Ihr Fachhändler | Your specialist dealer

Otto Bock Mobility Solutions GmbH
Lindenstraße 13 · 07426 Königsee/Germany
www.ottobock.com

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