



Mobilizer Norbert



Instructions for use

Mobilizer Norbert

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Information on the instructions for use

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1. Preface and general information

Dear customer,

Thank you for choosing a product from Reha & Medi Hoffmann GmbH. These instructions for use provide you with all the important information and notes on the Mobilizer Norbert. Furthermore, it is intended to make it easier for you to get to know the Mobilizer Norbert and to give you instructions for its proper use and safe operation.

Please read these instructions carefully and completely before starting up and using your Mobilizer Norbert. Keep them handy for future reference.

All directions are indicated looking from the back of the product in the direction of travel, as shown in Fig. 1.

If, despite careful study, further information is required, please do not hesitate to contact us. You will find our contact details at the beginning of these instructions for use.

You can find all documents in digital form online at www.rehamedi.de.



Fig. 1: Basis for direction/page references

1.1 Copyright

These operating instructions, including all their parts and illustrations, are protected by copyright. The rights to translation, reprinting, extraction of pictorial representations as well as reproduction and storage in data processing systems are reserved, even if only excerpts are used. The use in lectures or publication in media, in particular in publications, also in extracts, requires the prior written consent of Reha & Medi Hoffmann GmbH.

1.2 Disclaimer

Understanding, observing and complying with these instructions for use is absolutely essential for patient safety and the safety of users as well as the trouble-free operation of the products of Reha & Medi Hoffmann GmbH. Reha & Medi Hoffmann GmbH does not assume any warranty or liability for direct or indirect damage resulting from unauthorised modifications to the product or failure to observe these instructions for use.

The products of Reha & Medi Hoffmann GmbH may only be used in conjunction with equipment options approved by the manufacturer as specified in the instructions for use.

Any combination of the product with other products, in particular with medical products, as well as any technical modification to the product is generally not permitted. Exceptions require the written approval of the manufacturer.

Despite careful checking, errors in this document cannot be completely ruled out. We reserve the right to make technical or content-related changes at any time without prior notice.

Documents in printed form are not subject to a change service.

1.3 Definition of groups of persons

For reasons of better readability, the simultaneous use of the language forms male, female and diverse (m/f/d) is dispensed with.

Manufacturer

determines all measures to ensure safe and proper handling and use and is responsible for instructing the operator in this respect.

Operator

is any natural or legal person responsible for the operation of the healthcare facility in which The Mobilizer Norbert is applied by its employees.

User

is medical and nursing staff who use the product for mobilisation after instruction by the operator. As well as maintenance personnel with basic training in mechanical and mechatronic systems who are responsible for troubleshooting. Users are able to recognise, assess and, if possible, avoid possible hazards during use.

Patient

is a

- in medizinischer Behandlung befindliche Person
- Persons in care
- mentally and / or physically impaired persons in need of care.

medical professionals (staff)

These are, among others, doctors, nurses, caregivers, physiotherapists / occupational therapists. Trainee healthcare professionals must be supervised during use in addition to instruction.

Lay people and third parties

Laypersons are persons instructed in cleaning work by healthcare professionals. Third parties" are also understood to include, for example, relatives of the patient.

This instruction manual has been prepared for users and operators!

2. Description and purpose

The Mobilizer Norbert is a medically used product that supports nursing staff in the therapy and mobilisation of patients and is used for positioning and transporting patients, as well as for facilitating the work of nursing staff in hospitals, clinics and care facilities.

The Mobilizer Norbert can be adjusted to a lying and sitting position. The independent height adjustment can be used in any lying or sitting position. Depending on the selected equipment option, the position settings are made manually with a pump lever or electromotively in battery operation by means of a hand switch.

This model has a three-part, flat lying surface which, when adjusted, results in a wide seat, a high backrest and a leg rest. The leg rest is lowered or raised synchronously with the inclination of the backrest. A patented length compensation system, in conjunction with the integrated seat tilt, minimises the shearing forces on the patient's body that are otherwise common with couch-seat adjustment. The seat and backrest have comfortable viscoelastic padding that relieves pressure and helps prevent pressure sores. The position of the moulded neck cushion in the head area is adjustable.

There are padded armrests on both sides of the seat. Both armrests raise automatically when adjusted to the sitting position, but can also be swivelled upwards, facilitating a seated lateral transfer of the patient. To support both feet, there is a footrest that can be adjusted to the length of the lower leg.

If it is not needed, it can be stowed behind the padding of the leg rest. Mobilizer Norbert has four large, swivelling castors that ensure easy manoeuvrability. The central brake unit can be used to fix one directional castor as well as to operate the parking brakes.

The safe working load is 250 kg.

Any use of the Mobilizer deviating from this purpose is excluded from possible liability.

2.1 Indication

Depending on the severity of the respective functional or structural damage, fitting with a Mobilizer Norbert:

Significant impairment of standing and walking, for example:

- Complete/incomplete hemiplegia (hemiparesis) and, if necessary, with involvement of the trunk muscles as a result of a brain disease (for example, stroke, brain tumour).
- Complete/incomplete paralysis of the arms and legs (tetraplegia/paresis) and, if necessary, with involvement of the trunk muscles as a result of a disease of the brain (for example, multiple sclerosis, brain injury), the spinal cord (for example, poliomyelitis, paraplegia due to trauma or tumour) or the peripheral nervous system/muscular diseases (for example, Guillain-Barré syndrome, muscular dystrophies).
- Complete/incomplete paralysis of the legs (paraplegia/paresis) and, if necessary, with involvement of the trunk musculature as a result of a disease of the spinal cord (for example, paraplegia in the case of traumatic/inflammatory/tumorous thoracic and lumbar marrow lesion) or disease of the peripheral nervous system/muscular diseases (for example, polyneuropathy, muscular dystrophies).
- For assuming a standing position, for example in preparation for gait training and/or for achieving positive effects of an upright body position (for example with regard to circulation regulation/bone metabolism/bowel peristalsis/urinary drainage and/or for preventing pressure sores, thrombosis or joint contractures, promoting head control and arm function and improving spatial perception), if the clinical picture and the spatial conditions make it necessary for the assistant/carer to change the location of the aid within the home.

2.2 Contraindication

Selected contraindications to the use of Mobilizer Norbert as a standing aid:

- Non-stabilised fractures, acute phase of a paraplegic injury
- Symptoms of the failure of autonomous vascular regulation also in other neurological and/or internal diseases.
- Cardiac emergency - acute, severe impairment of cardiovascular function.
- Surgical wounds - Patients with fresh wounds after surgical procedures, such as a sternotomy after cardiac surgery, after plastic surgery to cover sacral or leg decubiti, should not be raised, or only after a doctor's orders.
- The patient's body weight must not exceed 250 kg.

The Mobilizer Norbert must not be used if a patient has failed the examination of a professional with medical competence.

3. Permissible operating conditions/place of use

The Mobilizer Norbert is intended for indoor use. If it is necessary to drive over steps or thresholds, these must be sloped or a ramp must be created. The ramps or an inclined plane may have a maximum gradient of seven degrees. The operating temperature range is +5°C to +40°C.



ATTENTION!

The position adjustments may only be made on a horizontal surface. Use in potentially explosive atmospheres is not permitted.

4. Dimensions

All dimensions in millimetres

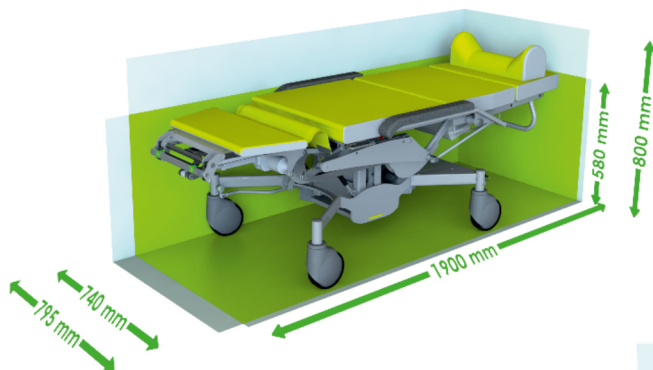


Fig. 2: Mobilizer Norbert in rest position



Fig. 3: Mobilizer Norbert in sitting position

5. Safety instructions

Safety and warning notices on the mobilizer

Safety and warning notices in the form of pictograms and stickers are attached to the Mobilizer and to any equipment supplied. These must not be changed or removed. Defective or damaged notices must be replaced immediately. The manufacturer must be contacted for this purpose.


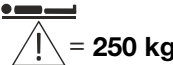


ATTENTION!

Indicates a hazard. Failure to observe and avoid the situation may result in injury.

5.1 Explanation of symbols and notes

For the safety of patients, for personal safety as well as to avoid damage to property, the meaning of the following symbol and note explanations must be observed. These are divided into hazard levels. If several levels of severity occur, the warning for the highest level is always used.

Pictogramm	Meaning
	Follow the instructions for use! Mandatory instructions for the safe use of the Mobilizer are included.
	Observe the maximum patient weight! Non-observance can lead to injury to patients, medical staff and third parties or to damage to property.

5.2 Basic safety information

The Mobilizer has been designed and produced in accordance with the state of the art and its recognised safety rules.

Nevertheless, risks of injury to staff, patients and third parties or damage to the Mobilizer or other property cannot be ruled out if the Mobilizer:

- is not used according to the intended use,
- is operated in a technically unsound condition or
- is operated by untrained or uninstructed personnel.



ATTENTION!

All safety instructions and warnings as well as the recommendations for action in these operating instructions must be read!

These must be followed without fail! Failure to do so may result in personal injury and/or damage to or malfunction of the Mobilizer!

Occupational safety in general



ATTENTION!

General and national accident prevention regulations must be observed. The operating personnel must be instructed accordingly. Safety and warning notices on the Mobilizer must not be changed or removed. Damaged notices must be replaced immediately and can be obtained from the manufacturer.

Qualification of the staff



ATTENTION!

Only demonstrably instructed users are allowed to use the Mobilizer.

- apply,
- clean,
- maintain and service as a precaution.

Commissioning



ATTENTION!

Before the Mobilizer is put into operation, the medical staff must be instructed in its use on the basis of the instructions for use. The potential hazards that may occur despite proper operation of the Mobilizer must be pointed out in detail. The Mobilizer may only be operated in accordance with its intended purpose and only within its performance limits.

In the event of malfunctions or defects that could impair safety, the Mobilizer must be taken out of operation immediately and the fault must be rectified immediately. Authorised technicians or the manufacturer must be informed.

Never use the Mobilizer with defective technical safety devices.

Before putting the Mobilizer and its accessories into operation, a visual inspection must be carried out. For this purpose, all cables must be checked for external damage, connecting elements for tightness and the presence of the protective measures.



ATTENTION!

Mobilizer Norbert is not suitable as a climbing aid, nor is it permitted to sit down on the backrest or foot end. An impermissible load can cause the Mobilizer Norbert to tip over.

5.3 Operational capability

Before and during the use of Mobilizer Ottfried and its accessories, further instructions listed below must be observed:

- Care must be taken to ensure that the adjustment processes take place without collision, continuously and almost noiselessly.
- The function of the brake system must be checked according to item "13 Driving and braking".
- Compliance with hygiene requirements must be ensured. The pads must be checked for damage that could affect their disinfectability.
- Ensure that the connecting and fastening elements function correctly.
- The smooth functioning of all operating elements must be checked.
- The appliance may only be operated by persons who are familiar with these operating instructions. These instructions must be kept accessible to all operators. If they are lost, they must be obtained from the manufacturer.
- Before each transfer and when the patient sits down or stands up, the parking brake must be activated to prevent the Mobilizer Ottfried from rolling away unintentionally.
- The operator must ensure that the person on the Mobilizer Ottfried is suitably secured against falling out.
- The operator must ensure that no one can manipulate the Mobilizer Ottfried or be injured by moving parts during adjustment. The patient's arms should be in the patient's lap or on the armrests. The feet are to be placed securely on the footrest or the floor.
- Avoid direct and prolonged skin contact with Mobilizer Ottfried for more than 1 hour by using a suitable pad.
- The Mobilizer Ottfried and the individual components are sometimes subjected to high stresses over the course of their useful life or in the event of improper handling. Any kind of cracks or scratches can be indications that the component in question will suddenly fail, which can lead to accidents with a risk of injury.
- Rattling noises or wobbling are an indication of defects!
- Technical modifications are not permitted. Only original parts from the manufacturer may be used for repairs. A combination with other medical devices may only be carried out after written approval by all manufacturers or distributors involved.
- Repairs, maintenance and adjustment work may only be carried out by persons who have sufficient specialist knowledge. The EU Medical Device Regulation (MDR 2017/745) must be observed.
- Regular product maintenance of the Mobilizer Ottfried is recommended in order to preserve its value.
- The linear actuators and the supply cables must be free of external damage.
- Only the batteries intended for this purpose may be used to operate Mobilizer Ottfried!

5.4 Products mechanical adjustment

If your Mobilizer Norbert is equipped with a hydromechanical adjustment via pump lever, the following additional safety instructions apply:

- The gas springs and the hydraulic drive must be free of external damage. No oil may leak from the manual lifting device.
- Check that all operating elements function smoothly. The Bowden cable must not be damaged.

5.5 Products with battery

Products with rechargeable batteries may only be operated with the rechargeable batteries supplied or other rechargeable batteries approved by the manufacturer. The rechargeable batteries may only be charged in the charging station provided, including the mains adapter.

Batteries

These are 24 V rechargeable batteries. Contact between the two contacts is almost impossible due to the design. Do not touch the contacts, otherwise there is a risk of fire or electric shock. As a precaution, avoid wearing metallic jewellery, as touching the electrical contacts can cause a short circuit in the battery and thus pose a risk of explosion.

Charging station

The external charging station for the batteries must be operated separately and must not be connected to the product for mains operation. The charging station may only be operated outside the patient environment. The charging station and the mains adapter with supply cable must be checked for external damage. The mains adapter is subject to the relevant regulations for mains-powered devices.



ATTENTION!

Risk of destruction of the electric motors and fire hazard when using unauthorised batteries and charging stations! Recharging batteries is only permitted with the charging station supplied by the manufacturer.

6. Height adjustment

6.1 Hydromechanical height adjustment (factory-fitted equipment option)

The hydromechanical height adjustment allows the setting of the optimal working height for the staff in any sitting or lying position. By pressing down one of the foot levers located on either side between the front and rear wheels (see Fig. 3), the entire seat-back unit including armrests and footrest is raised. Lowering in turn is effected by lifting the foot lever. The height adjustment is factory-fitted and cannot be retrofitted.

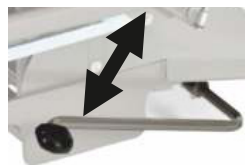


Fig. 4: Operating the foot lever for height adjustment

6.2 Electromotive height adjustment (factory-fitted equipment option)

The electromotive height adjustment (see fig. 4) allows the setting of the optimum working height for the staff in any sitting or lying position. It is operated by means of a hand switch.



Fig. 5: Electromotive height adjustment

7. Backrest adjustment

By tilting the backrest, Mobilizer Norbert can be adjusted from a flat lying surface to a sitting position (see Fig. 5). Synchronously with the inclination of the backrest, the leg rest is also lowered or raised. By pulling up the release bar, the backrest can be adjusted between the reclining and sitting position.

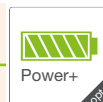
The Mobilizer Norbert is characterised by a reduction of the shearing forces that are otherwise common when adjusting the backrest. Depending on the inclination of the backrest, the seat cushion is moved longitudinally and adjusted at the front.



Fig. 6: Backrest adjustment

8. Hand control*

* Electromotive height adjustment equipment option



- 1 - Raise backrest
- 2 - Lowering the backrest
- 3 - Raise height adjustment
- 4 - Lower height adjustment
- 5 - Kick upwards
- 6 - Footstep down

The tilt of the backrest and seat, as well as the adjustment of the seat height, is carried out by means of two electric motors. Operation is via a hand control with three rows of buttons (see Fig. 6). The upper row of buttons controls the tilt of the backrest, the middle row controls the height adjustment and the lower row controls the height of the footrest.

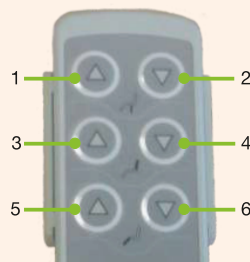


Fig. 7: Hand switch

9. Main switch*

Behind the backrest is the main switch, with which all drives of the Mobilizer can be switched off by pressing the switch button. The Mobilizer can be switched on again by turning the switch knob clockwise according to the symbols on the switch knob.

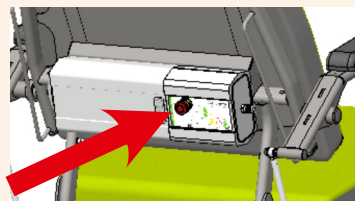


Fig. 8: Main switch

10. Transfer

Patients can be transferred sideways into and out of Mobilizer Norbert while sitting or lying down. Patients whose mobility allows it are also able to get out forwards or sit in the standing-up position. In principle, Mobilizer Norbert must be braked every time the patient is transferred or sits in or gets out of the chair.

10.1 Horizontal transfer

Before transferring the patient lying down, lower the backrest to the flat lying position and the footrest to the lowest step. Patients are to be placed on the Mobilizer Norbert in such a way that their greater trochanter (large rolling hill) is positioned above the rear end of the seat cushion. In this position, the upper part of the patient's head must not protrude above the head cushion. Moving the patient towards the head end or foot end is not permitted (see Fig. 9 and Fig. 10). The backrest must be raised to achieve a semi-sitting position and the footrest adjusted to the patient's lower leg length according to chapter 13.



ATTENTION!

In the lying position, the patient's body weight must be evenly distributed. The patient's centre of gravity must be on the seat cushion (applies especially to amputees). Lifting the legs can cause the Mobilizer to tip over.

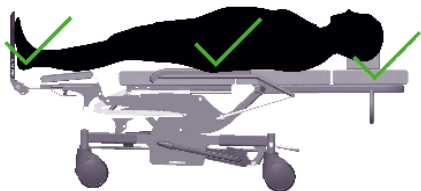


Fig. 9: Permissible patient positioning

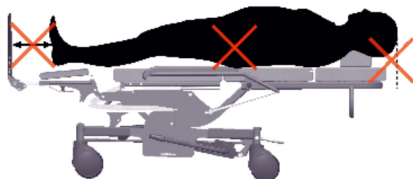


Fig. 10: Inadmissible patient positioning

10.2 Sitting transfer

Alternatively, the armrests can be swivelled upwards to allow comfortable lateral transfers in sitting positions. If patients are transferred to Mobilizer Norbert in a sitting position, they should only be positioned on the seat in such a way that the lower part of the back rests against the backrest and the patient can assume an upright sitting position.

To get out forward, the seat of Mobilizer Norbert is tilted forward as far as it will go and the footrest is stowed under the calf pad. In this position, an attendant can help the patient out of Mobilizer Norbert with minimal effort while observing kinaesthetic principles.

11. Armrests

The armrests provide support for the patient without limiting the seat width. They lower automatically to the level of the seat cushion when adjusted to the couch, facilitating the prone lateral transfer of patients. For seated transfer or lateral sitting, it is possible to swivel the armrests upwards individually (see Fig. 11).



Fig. 11: Armrest swivelled upwards

Locking the armrests

According to the scope of equipment, the armrests can be locked in any position by means of a locking lever (Fig. 12).



Fig. 12: Locking the armrest in place

12. Footstep

The patient's feet must be positioned centrally parallel on the foot step (see fig. 10). The patient's feet must not protrude beyond the footrest. The symmetrical arrangement of the feet on the foot step ensures optimal function and prevents the risk of tipping over due to uneven load distribution. For a lying transfer or if the foot step is not needed, it can be folded under the calf pad. To do this, lift the calf pad, fold in the fully extended foot step and then put the calf pad down again.



Fig. 13: Positioning the feet on the foot step

12.1 with electric footrest adjustment

The footrest can be continuously adjusted to the length of the patient's lower leg. To do this, press the buttons on both sides underneath the seat cushion (see Fig. 11) to raise or lower the footrest.

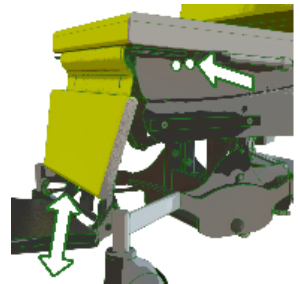


Fig. 14: Electric footrest adjustment

12.2 with manual footrest adjustment

The footrest can be adjusted to the patient's lower leg length in three steps. Operate the release lever below the calf pad (see fig. 12 and 13) to raise or lower the footrest. The release lever audibly engages in one of the three positions.



Fig. 15: Folding in the footstep



Fig. 16: Release lever



ATTENTION!

The foot step may only be folded in in the extended position to avoid damage to the calf pad.

13. Driving and braking

With the foot control lever at the rear of the frame, both the directional and the total locking of the castors are operated centrally. For driving straight ahead, the directional castor at the front right can be locked by lifting the central brake lever.

Pushing down the central brake lever (Fig. 15) locks the rear brake rollers and the directional roller (all-wheel brake). The central, horizontal position of the central brake lever causes free-wheeling and free pivoting of all wheels.

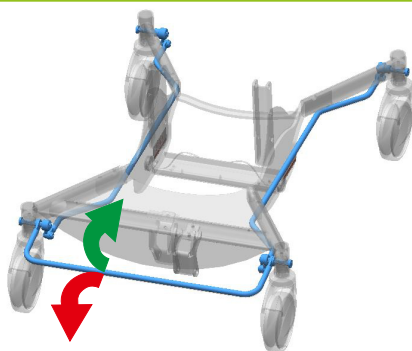


Fig. 14: Brake lever

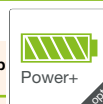


ATTENTION!

To prevent unintentional rolling away, the parked Mobilizer Norbert must always be braked.

14. Battery change*

* Electromotive height adjustment equipment option



The Mobilizer Norbert's backrest and seat height are adjusted by electric motor in battery mode. An LED indicator light in the battery monitor shows the current charge status:

- lights up green: sufficient charge - battery full
- flashes orange when a button is pressed, a short signal tone sounds: charge is running low - recharge battery
- lights up permanently orange, a repeating signal tone sounds: low charge - be sure to charge the battery before using the Mobilizer.



Fig. 15: Battery control light

The battery is freely accessible behind the backrest. To change the battery, the backrest should be positioned vertically. The battery is pulled out of the plug-in coupling with a slight jerk to the left and removed.



ATTENTION!

The weight of the battery is up to 5 kg, depending on the type of battery. When removing the battery, make sure that it does not fall down when detaching it.

The battery is freely accessible behind the backrest. To change the batteries, the backrest should be moved to a vertical position and the parking brake applied. To release the battery, pull it to the left with a slight jerk and then lift it off the backrest (see Fig. 16). To insert the charged battery, proceed in reverse order. To charge the battery, insert it into the charging station. The battery is inserted into the charging station in the same way as on the battery holder on the Mobilizer Norbert (see Fig. 17). Please also observe the general safety instructions (chapter 5). The charging station should preferably be mounted vertically on a wall (see Fig. 18) so that the battery is inserted into the charging station from above for charging.

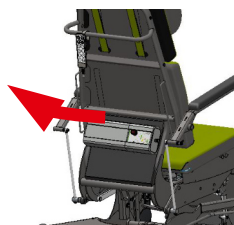


Fig. 16: Removing the battery

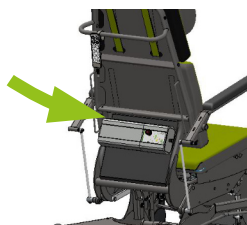


Fig. 17: Inserting the battery

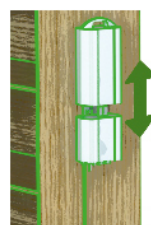


Fig. 18: Charging station with wall bracket



INFORMATION

Depending on the battery type, the battery must be replaced regularly. If the battery performance drops noticeably, contact your customer advisor or the manufacturer.

15. Equipment options

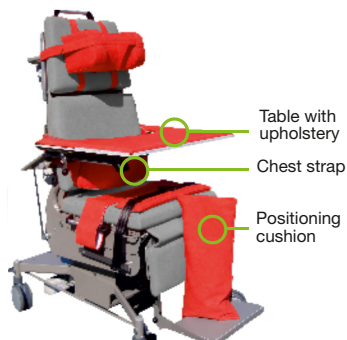
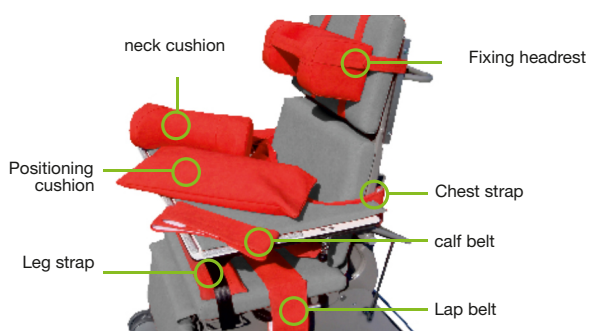


Fig. 19: Recommended equipment

15.1 Headrest, fixing

This headrest is fitted in place of the standard neck pad and has an additional strap to secure the head over the patient's forehead (see Fig. 22).



ATTENTION!

When using the forehead belt, never leave the patient unattended!

15.2 Table with upholstery

The table has rounded crumbling edges and an insensitive surface that can be disinfected by wiping. It is placed on the armrests at an appropriate distance from the body. Under the table there are locking levers on the right and left that audibly snap into place when light downward pressure is applied (see Fig. 23). To release the lock, the handles are moved upwards again. A matching cushion is available.

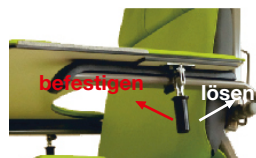


Fig. 20: Release lever for table attachment

15.3 Locking the armrests in place

With the locking device for armrests (see fig. 24) it is possible to fix the armrests in any desired position between parallel to the seat surface up to completely folded upwards.



Fig. 21: Locking the armrest in place

15.4 Side bar

Side bars can be attached to both sides of the seat (see Fig. 25). They offer the patient lateral support in the leg area and facilitate the use of additional positioning aids. The side bars can be lowered for unhindered lateral transfer.

Pressing the bar in the direction of the arrow releases the lock. The side bars are fitted at the factory, cannot be retrofitted and cannot be combined with push handles. Pads for the side bars are additionally available.



Fig. 22: Side bracket

15.5 Straps

A selection of different tethers is available (see Fig. 22). For all tethers, the tabs are pulled through the retaining brackets provided on the Mobilizer and the Velcro or belt fasteners are closed. The thoracic belt is attached from the front with the foam pads facing the patient's body, but as an alternative to the pad belt. The leg strap is to be applied below the kneecap (patella).

15.6 Infusion stand

The infusion stand (see fig. 26) is attached in one of the rear wheel sockets. The cover cap is pulled out of the wheel socket and the holder of the infusion stand is inserted into the socket. The infusion stand is then attached using the star handle.



Fig. 23: Infusion stand



ATTENTION!

When using the Mobilizer, the infusion stand must be swivelled outwards. Contact between the Mobilizer and the infusion stand during adjustment, especially of the backrest, can damage parts of the stand or the Mobilizer. When transporting the Mobilizer, the infusion stand must be swivelled in. Otherwise, parts of the stand may be damaged when passing through narrow places, e.g. door frames. Pushing, pulling and pushing on the infusion stand to transport or slow down the Mobilizer will inevitably damage parts of the stand. Manoeuvring the Mobilizer with the infusion stand is not permitted.

15.7 Battery

An additional exchangeable battery allows the Mobilizer to be operated continuously without breaks in charging. For use, see section "15. Changing the battery".

16. Warranty

The warranty period for the Mobilizer Ottfried including the additional equipment is 24 months from the date of delivery.

Excluded from warranty claims are:

- Wear parts (e.g. armrest pads, locking screws)
- Damage due to non-observance of these instructions for use
- Damage due to unauthorised modifications to the Mobilizer Ottfried
- Damage due to unauthorised combination with other products
- Damage due to product maintenance, disinfection, repair or overhaul as a result of non-compliance with the instructions available for this purpose.
- Pads and straps for patient restraint
- Circulation

17. Disposal

The transport packaging is recyclable and must be recycled locally. The Mobilizer Ottfried can be returned to the manufacturer free of charge for professional disposal.

18. Product life

The expected technical product life is set by the manufacturer at 10 years, provided the intended use and safety instructions are observed. Daily use provides for 10 applications on 5 consecutive days followed by 2 rest days. It is recommended to limit one application to 15 minutes.

19. Technical data

Standard width:

Reclining height adjustable	57 - 79 cm
Length of the lying surface.....	190 cm
Seat width	58 cm
Total width	74 cm
smooth running wheels	Ø 150 mm
own weight	ca. 90 kg
Maximum permissible patient weight.....	250 kg

Widened version:

Seat width	66 cm
Total width	81 cm

Exchangeable battery system 24 V / max. 5.5 Ah - depending on battery type
Charging station type ZLA-142221, protection class according to DIN EN 61140: protection class III / protection by extra-low voltage (SELV), internal power supply, no mains connection
Application type according to IEC 60601-1: no application part

19.1 IP protection classes & temperature ranges

Component	IP protection class	Operating temperature range	Storage temperature range
Total product Mobilizer Ottfried	IPX4	+5°C to +40°C	+5°C to +40°C
Hand control	IP67	No temperature restrictions Spiral cable: 1.3 m; maximum plug-in 2.5 m	
SCU-Control	IPX4	+5°C to +40°C	+5°C to +40°C
Matrix linear actuator	IP66	+5°C to +40°C	+5°C to +40°C
Pb-Gel-Battery (FIAMM FG20451)	IPX4	-20°C to +50°C	The cooler the better, faster capacity loss at higher temperatures, more frequent recharging is then necessary.
Performance+ Battery (Howell Energy HW-4F5)	IPX4	Loading: 0°C to +45°C Unloading: -20°C to +60°C	-5°C to 35°C
charging station ZLA-142221	IPX4	+10 to +40 °C	+10 to +40 °C
power adapter intai IN3600400	- / Protection class II	-29 to +45.5 °C	-29 to +45.5 °C

19.2 The type plate



Fig. 24: The type plate is located on the back of the backrest at the height of the push handle.

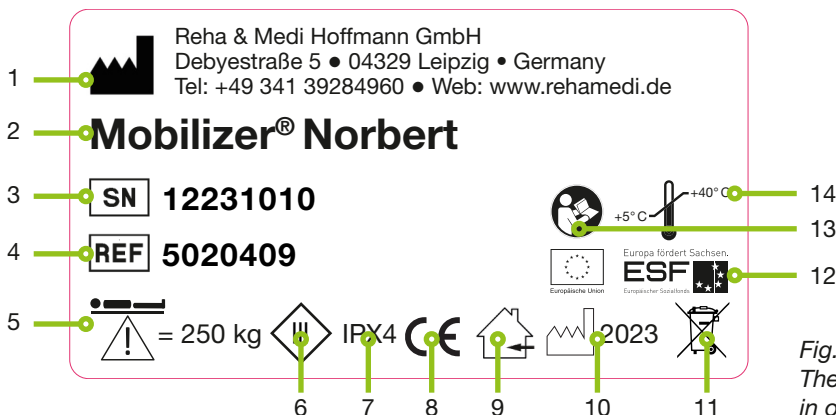


Fig. 25:
The nameplate
in original size

1. Manufacturer
2. Product designation
3. Serial number
4. Article number
5. Max. Load capacity
6. Protection class III: The protective extra-low voltage
7. Moisture protection class
8. CE mark - the product complies with the applicable requirements
9. Only suitable for indoor use
10. Production date (year)
11. Product must not be disposed of in household waste
12. Note: Funded by the ESF
13. Commandment sign "Follow instructions"
14. Ambient temperature for operation

Notizen



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 *developed. designed. built.
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