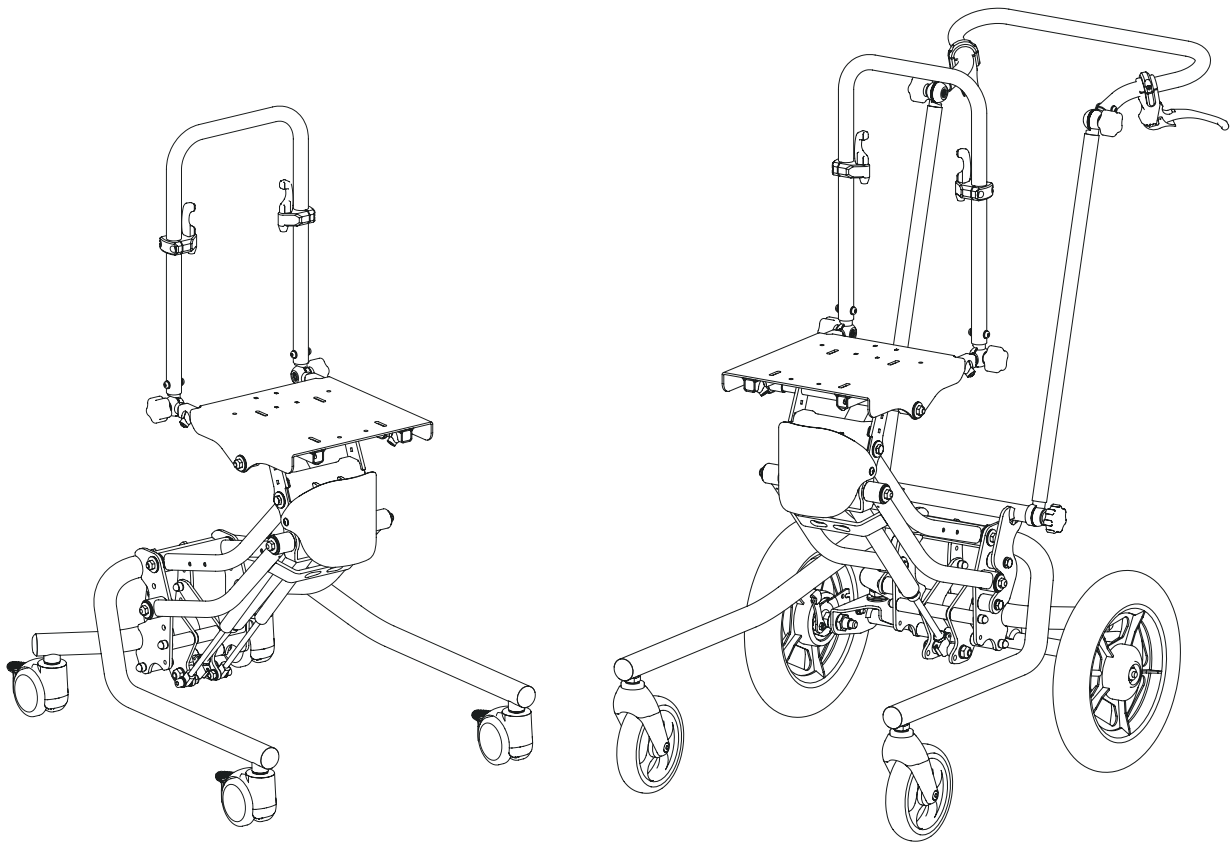



Noah Hi-Lo Base

INSTRUCTIONS FOR USE

SERIAL NUMBER: _____

English



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Foreword

Dear User,

We are delighted that you have chosen a high-quality product from Rehatec® GmbH and thank you for your trust.

These instructions are designed to help you familiarize yourself with your Noah Hi-Lo Base and to show you how to use it safely and efficiently in daily applications. Once your indoor base has been set up and adjusted optimally, it is ready for use, allowing you to enjoy reliable operation for years to come.

Please note that the illustrations and descriptions in this manual may vary slightly from your product due to individual configuration options. Rehatec® GmbH reserves the right to make technical changes and improvements. Although these instructions have been prepared with the utmost care, minor errors cannot be completely excluded, and Rehatec® GmbH accepts no liability in such cases.

We wish you safe and enjoyable use of your Noah Hi-Lo Base.

Your Rehatec® GmbH

Important note!

This manual provides information and instructions on the setup, commissioning, operation, use, maintenance, inspection, care, and re-use of the device, as well as important safety notes and usage restrictions intended to protect the patient, the operator, and third parties.

Please read these instructions carefully before using your new device for the first time. Individuals with sensory, cognitive, or learning impairments may have the contents adapted for better understanding—for example, by having them read aloud, simplified, or explained by another person.

The operator must read and fully understand this manual. To ensure patient safety, the operator must not have any impairments that could temporarily or permanently limit attention or judgment.

Keep this manual readily accessible for future reference and ensure that it remains with the product if it is transferred to another user. If needed, Rehatec® GmbH will gladly provide a replacement copy. The manual can also be viewed and downloaded from our website at www.rehatec.com

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1. Safety

This chapter summarises all safety instructions that you must always observe for your own protection and that of others.

Please follow all instructions in this manual carefully. Incorrect operation can impair important device functions.

All safety instructions and other regulations must be observed at all times by both the patient and the operator. Failure to observe these instructions may result in injury or damage to property.

1.1 Warnings

Warning notices differ depending on the hazard, as indicated by the following signal words:

- **CAUTION** Warning of damage to property!
- **WARNING** Warning of personal injury!
- **DANGER** Warning of danger to life!

Warning/information notices have the following structure:



CAUTION/WARNING/DANGER

Type and source of the hazard! Measures to avoid the hazard.



IMPORTANT

The information symbol indicates useful tips for easier operation and better understanding.

1.2 Safety instruction



DANGER! The operator must not have any impairments that could impair attention and judgement. judgement temporarily or permanently!



DANGER! The base frame has many moving parts! Take care not to accidentally trap hands and feet between the moving parts!



DANGER! The patient must never be left unattended. Constant supervision by an operator (adult) is required!



DANGER! All settings must be made correctly before each use of the device. Before each use, check that all parts are securely fastened.



DANGER! The individual limitations and abilities of the user must always be taken into account.



DANGER! Unauthorised access to the housing of electronic components is prohibited! All electrical components are closed units that do not require internal maintenance!
























DANGER! The device is only authorised for use by one person!






















DANGER! The user must be adequately secured against falling out without restricting their comfort!


















DANGER! The device may only be used by a trained user who has read and understood the complete operating instructions! Instruction must be provided by the operator/ service provider!

-  **DANGER!** Do not stand on the footrest or similar when sitting down or standing up - there is a risk of tipping over.
-  **DANGER!** Never carry the appliance with the user!
-  **DANGER!** The appliance must not be altered or modified without the manufacturer's authorisation.
-  **DANGER!** Only use the appliance on a firm, level surface. There is a risk of tipping and slipping if the surface conditions change.
-  **DANGER!** Limited manoeuvrability on soft surfaces, e.g. carpets - risk of tipping over!
-  **DANGER!** When cleaning and disinfecting, residues of agents used must be removed to avoid poisoning, irritation and allergic reactions! See chapter "Cleaning and disinfection".
-  **DANGER!** Only place loads on the frame at the permitted points - excessive loads due to incorrect handling (e.g. by attaching objects, supporting or leaning etc.) can cause the frame to tip over.
-  **DANGER!** If the height is set to maximum, the centre of gravity shifts upwards and there is an increased risk of tipping!
-  **DANGER!** Protect the appliance from moisture! In the event of contact with moisture, ensure immediate drying; for further information on protection against water, see the "TECHNICAL DATA" chapter.
-  **CAUTION!** Repair and inspection work may only be carried out by *Rehatec® GmbH* and authorised specialist dealers.
-  **DANGER!** Never use the appliance in the vicinity of or in connection with flammable substances and fire-causing objects.
-  **DANGER!** The user must ensure that there is no danger when the mains plug is plugged in.
-  **DANGER!** Only connect or disconnect electrical components when they are de-energised and dry.
-  **DANGER!** Risk of electric shock! Never pull on the cables to adjust the appliance! There is a risk of electric shock if the cables are torn or the insulation is damaged!
-  **DANGER!** Risk of electric shock! Never touch the mains plug with wet hands!
-  **DANGER!** Cables lying around are a tripping hazard!
-  **DANGER!** Risk of electric shock! Cables of the device are not traversing-proof! If the cable is damaged, the drive must be taken out of operation immediately and disconnected from the power source!
-  **DANGER!** Explosion hazard! The appliance must not be used in an environment where flammable or explosive gases or vapours are likely to occur (e.g. oxygen)!
-  **DANGER!** When selecting the position of the seat shell on the chassis, ensure that the centre of gravity is selected in such a way that it does not tilt during use with the patient!
-  **DANGER!** Risk of tipping over! Playing children must not pull themselves up on the device!
-  **DANGER!** The battery cells can develop excessive heat in the event of a short circuit or mechanical damage! Fire hazard! Risk of burns! Risk of suffocation due to fire products!



















1. Safety

-  **DANGER!** It is not permitted to operate the device under the influence of drugs or alcohol or by operators with cognitive impairments. The user must not have any impairments that temporarily or permanently restrict attention and judgement.
-  **DANGER!** The device contains small parts (e.g. pipe plugs or protective caps) that can be swallowed by small children or mentally impaired patients! Always ensure that the small parts do not come loose!
-  **DANGER!** Risk of electric shock! Always keep playing children away from all electronic components!
-  **DANGER!** The appliance may only be connected to the mains supply if the mains voltage of the socket matches the specification on the rating plate or in the "TECHNICAL DATA" chapter!
-  **DANGER!** Upholstery, wooden and plastic parts installed on the appliance are not reliably flame-retardant. They can be ignited by smoking utensils, ovens, cookers, fireplaces and other room heaters, for example.
-  **DANGER!** Adjustment ranges must not be exceeded. A secure connection of the parts must be ensured.
-  **DANGER!** Carry out maintenance at the specified intervals (see chapter "Maintenance").
-  **DANGER!** When sitting down or standing up, do not stand on the footrest or similar or lean on the armrest - risk of tipping over.
-  **DANGER!** Never turn the tubes of the drives. This can lead to defects!
-  **DANGER!** Only carry out repair and adjustment work, cleaning or disinfection without the user in the appliance.
-  **DANGER!** The maximum permissible total weight must not be exceeded! See chapter "Technical data" or type plate!
-  **DANGER!** Never carry the appliance with the user or transport it in a car!
-  **DANGER!** Do not pull on the motor rods or gas spring pistons when moving the appliance. It is not permitted to operate the appliance by pulling the actuator or to subject it to lateral forces in any other way.
-  **DANGER!** Carry out an annual inspection for damage and wear.
-  **DANGER!** Pay attention to warning tones, LED signals, unusual noises, uneven function or changes in stability. Stop therapy immediately and discharge the patient if you notice anything unusual.
-  **DANGER!** Always check that the seat shell is securely attached to the frame before using it with patients!
-  **DANGER!** Handle rechargeable batteries with care. Do not short-circuit the battery.
-  **DANGER!** Observe the switch-on time: 10 %, 2 minutes continuous operation, followed by 18 minutes break!
-  **CAUTION!** The housings of components must not be subjected to impacts or similar loads.

-  **CAUTION!** Be aware of the risk of pinching and crushing during all repair and adjustment work.
-  **CAUTION!** Connecting cables must remain plugged in during cleaning to prevent water ingress.
-  **DANGER!** If parking/drum brakes, electrical components, hydraulic pump, trapeze adapter, lever mechanism or gas struts are defective, the appliance must be taken out of service immediately! Further use is not permitted!
-  **DANGER!** Only for operation within the intended conditions! See chapter "TECHNICAL DATA".
-  **DANGER!** After each transport in a car, prolonged storage and before the appliance is used again, all checks must be carried out in accordance with the "Commissioning" chapter!
-  **DANGER!** Combinations of the appliance with third-party products or non-original parts are not permitted and can be dangerous. The manufacturer accepts no liability for damage and complications resulting from such combinations.
-  **DANGER!** The patient may push off a table, the wall or other furniture with their feet or hands. Increased risk of tipping! See chapter "Minimum extension of the patient environment".
-  **DANGER!** Hanging lights/cables can pose a risk of electric shock! See chapter "Minimum expansion of the patient environment".
-  **WARNING** Additional safety instructions for individual points in the "Device settings" chapter must be strictly observed!
-  **WARNING** Defective or damaged lithium-ion batteries are not permitted for transport!
-  **WARNING** Depending on the clinical picture and weight, several people (or a patient lift) may be required to transfer the patient to the device.
-  **DANGER!** Be careful when adjusting the angle of inclination with a patient or the height of the device using gas springs. You must expect additional forces to be required in both directions (e.g. forwards or upwards).
-  **IMPORTANT** The drives may only be cleaned when the piston rods are fully retracted.
-  **IMPORTANT** Do not expose the components of the drive system to UV disinfection lamps. This can cause damage to the housing, carrier parts and cables.
-  **IMPORTANT** When reusing the device, it may be necessary to replace existing components or purchase new positioning elements. Contact your dealer to find the right components for your appliance.

2. Symbols

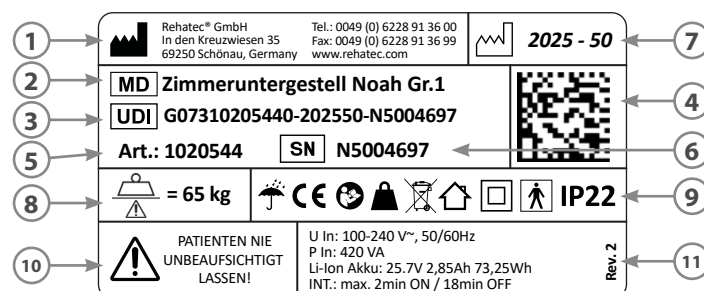
2.1 Symbols and markings on the product

1		Follow the instructions for use!
2		Only suitable for indoor use.
3		Manufacturer
4		Date of manufacture (week/year)
5		CE mark
6		Maximum permissible patient weight
7		Maximum permissible nominal load
8		Battery/device disposal
9		Serial number
10		Medical device
11		Unique identifier of a medical device
12		Protect the product from moisture.
13		Warnings. Caution!
14		Caution! The device weighs more than 10 kg! At least 2 people are required to carry the device.
15		Warnings. Risk of crushing hands/fingers!
16		Instructions for use
17		Type BF medical device
18		Class II device
19	IPN₁N₂	Protection class: N1 – degree of protection against foreign objects and contact

2.2 Type plate on the device

For clear identification and information purposes, the following labels are affixed to the base frame (see chapter 'Product and delivery overview'):

- 1 Manufacturer address
- 2 Device type/name/size (MD = Medical Device)
- 3 UDI number (readable form)
- 4 UDI number (machine-readable code)
- 5 Model number
- 6 Manufacturer serial number
- 7 Date of manufacture (calendar week/year)
- 8 Maximum permissible patient weight/
Maximum permissible rated load
- 9 Symbols
- 10 Safety notice
- 11 Power supply/Power/Duty cycle



The illustration shows an example type plate. The serial number shown does not correspond to that of your device.

3. General information

3.1 Definition of terms

The operator (e.g. therapy centres, rehabilitation centres, physiotherapy centres, specialist dealers, health insurance companies) is any natural or legal person who uses the device or on whose behalf the device is used.

The operator is responsible for the proper instruction of the operating and specialised personnel.

Operators (e.g. therapists, accompanying persons or assistants) are persons who are authorised to operate the device and carry out therapeutic work on it on the basis of their training, experience or instruction. Furthermore, the operator can recognise and avoid possible dangers and assess the patient's physical abilities and state of health. Operators must be instructed in the use of the device.

Specialised personnel are employees of the operator who, due to their training or experience, are able to training or instruction are authorised to transport, adjust and maintain the device. They are also instructed in the regulations for carrying out inspections, cleaning and disinfection.

In these instructions for use, a **patient** is defined as a physically disadvantaged person, who is given a positive sitting position.

3.2 Intended use

The Galileo, Mika, Sunny/-swing, Noah and Nick products are infinitely adjustable seat bases and are used in general living areas, in the care sector and in the home. They have been designed to accommodate seat shells or seating systems to support therapeutic applications for people with moderate to severe sitting postures and/or sitting posture instabilities, thereby enabling pain-free sitting in a physiologically correct posture.

3.3 Indications, contraindications and risks

A fitting with the base frames can be used for the following indications.

Impairment of sitting in the event of functional and/or structural damage to the trunk or trunk and, if applicable, neck muscles (e.g. due to neurological/neuromuscular diseases, deformities of the spine) with poor posture such as: muscular dystrophy or atrophy, cerebral movement disorders, multiple sclerosis, myelodysplasia, various clinical pictures with paralysis / significant reduction in strength or severe deformities of the trunk muscles and / or extremities, hip or knee joint stiffness and / or severe movement restrictions.

The Zimmer base frames or seat shell chassis developed by Rehatec are suitable as a basis for seating aids and, in combination with these, enable the user to maintain a (virtually) physiological position for several hours a day and ensure stable sitting. Positions and movement patterns are gently corrected and breathing and eating are made easier.

All frames are designed in conjunction with seating systems so that users with restricted sitting can maintain a physiological sitting position, ensure stable sitting and enable the positive effects of a seated body position to be achieved.

The individually moulded seat shell with matching base frame ensures the greatest possible mobility for the patient.

Before fitting the base frames, a doctor should check whether there are any contraindications. The indica-

tions for the fitting must be monitored by a doctor or therapist at regular intervals. As a general rule, any type of pain is a contraindication!

Under the following conditions and / or symptoms, the active and / or passive use of the device must be explicitly clarified with the attending physician or therapist: Users with non-intact skin; with serious tone dysregulation. Use of the device in the case of scoliosis in the patient's clinical picture only after consultation with the attending physician.

The device does not correct incorrect posture and is not suitable for guiding growth!

3.4 Responsibility

The operator is responsible for

- the intended use according to the operating instructions and other information
- from these instructions for use.
- the necessary daily and regular inspection, maintenance and care of the appliance.
- See the "Maintenance and inspection" section for information on maintenance intervals.
- the necessary daily and regular care, cleaning and disinfection of the appliance.
- for compliance with the annual maintenance intervals.

The user is responsible for:

- the necessary regular cleaning, care and inspection before each use of the appliance
- (See section 7 for cleaning instructions and section 8 for inspection instructions)



DANGER Product modifications, repairs and maintenance work must be carried out in accordance with the inspection plan and extensions to the system may only be carried out by authorised persons!



IMPORTANT *Rehatec® GmbH* only provides a warranty if the product is used under the specified conditions for the intended purposes and only the original accessories are used!



IMPORTANT All serious incidents that have occurred in connection with the product must be reported to the manufacturer and the competent authority. The competent authority in Germany is the BfArM!

3. Allgemeine Informationen

3.5 Intended use



WARNING! Read chapter "Technical data" for important operating conditions!



DANGER! Intended use includes strict compliance with all instructions in this manual!



DANGER! Check the following points with your doctor before using the device:

- Disease-specific use of the device (contraindications)
- Maximum dwell time in the product to prevent possible injuries
- A suitable harness for safe positioning of the patient
- Necessary accessories for correct and safe joint/body positioning
- Maximum possible adjustment limits of positioning elements
- Frequency of use of the device / therapy plan

The "Noah Hi-Lo Base" appliance is designed for operation in closed rooms at an ambient temperature of between 15 °C and 35 °C. It must not be used in wet areas. Use in wet areas is not permitted. The appliance must also be kept away from heat sources and strong sunlight - risk of burns! Failure to observe this can lead to considerable damage and endanger both the user and the assistant.

The appliance must not be used indoors:

- with very high humidity of over 70%
- that belong to wet areas (showers, swimming pools, etc.)
- where there is a risk of explosion or where flammable anaesthetic products are present.

The Zimmer undercarriage is intended for use for therapeutic purposes and not as a patient lift or for transporting patients by car.

Electrical installations must comply with the local standards that prescribe the necessary conditions for electronic installations.

Depending on the version, the appliance must be connected to a suitable power source for use. In an emergency or in exceptional situations (e.g. during a thunderstorm), the device is switched off by disconnecting the mains plug.

This product is designed exclusively for use by competent users who have been instructed by the operator. The areas of application include Physiotherapy, rehabilitation, physiotherapy, medical therapy and domestic use.

Rehatec® GmbH gives no guarantee regarding the suitability of this product for a specific therapeutic and diagnostic purpose. The user determines the appropriate use.

In order to ensure the safe and successful operation of **Rehatec® GmbH** devices, all instructions, precautions and information in the instructions for use must be observed.

3.6 Declaration of conformity

The corresponding declaration of conformity can be found at www.rehatec.com in the download area.

The CE mark must be removed if the Rehatec® product is converted, modified or used in combination with unauthorised products from other manufacturers.

The CE mark also expires if no original Rehatec® spare parts/accessories are used.

3.7 Service life

You can find a corresponding list of the service life at www.rehatec.com in the download area.



IMPORTANT If the device is more than 4 years old, we recommend replacing the battery with a new one.

3.8 Service/complaints

Rehatec® GmbH is at your disposal for complaints, enquiries and for further information or orders for accessories and retrofittable additional equipment.

All complaints must be made in writing.

Further information can be found on our website www.rehatec.com.

4. Product and delivery overview

4.1 Scope of delivery and basic equipment

The Noah Hi-Lo Base is available in different sizes. Technical data on size and permissible weight can be found in the table in the "Technical data" section. The Noah Hi-Lo Base is generally supplied fully assembled and in its basic configuration. To avoid damage during transport, plug-in and unattached parts can be packed separately in the box.



The illustration may differ from your product due to the individual equipment options.

Basic equipment room base frame Noah

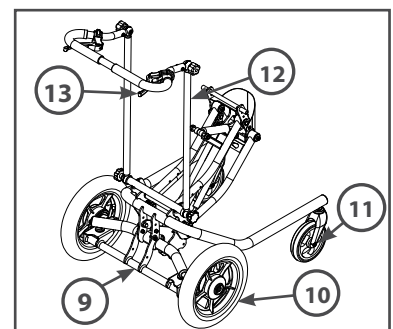
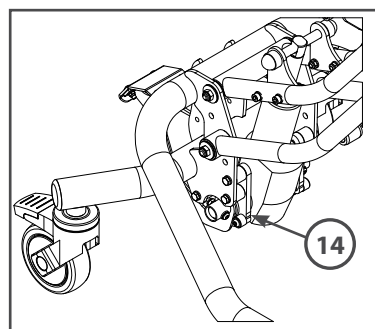
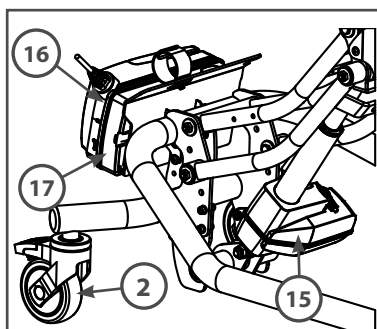
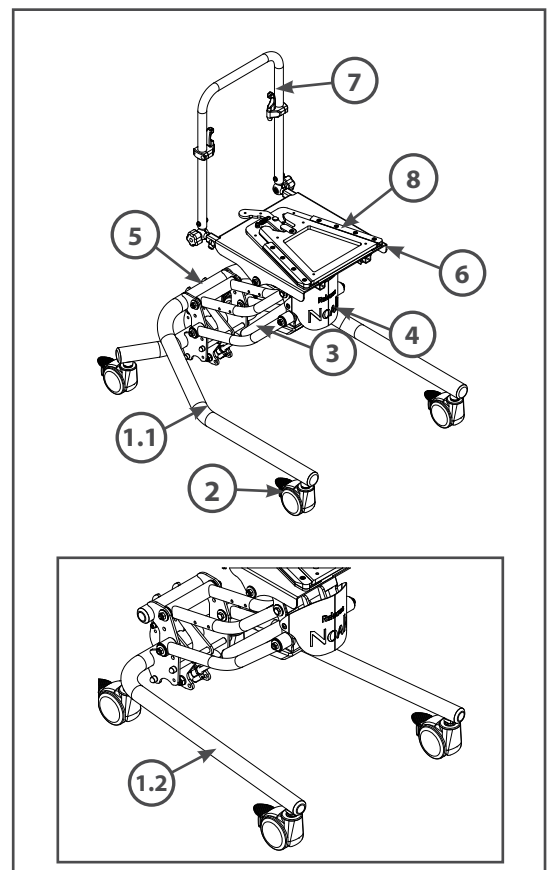
Standard base frame with gas spring height adjustment

Seat support with footrest support and gas spring tilt adjustment

Push bar on the seat plate

4 castors with brakes, 75 mm

Item	Component designation
1.1	Underframe with lever mechanism (sizes 1-2)
1.2	Underframe with lever mechanism (size mini)
2	transport rollers
3	Gas spring for height adjustment
4	Gas spring for tilt adjustment
5	Type plate
6	Seat support with footrest support
7	Push bar with release lever
8*	trapezoidal adapter
9*	Wheel holder (outdoor undercarriage)
10*	Drive rims (12") with drum brakes
11*	Steering wheels (6")
12*	Push bar on the base frame, angle-adjustable
13*	Brake handles
14*	Hydraulic pump with foot lever
15*	Height adjustment drive
16*	Control with mains cable and handset
17*	Lithium-ion battery
	(*) - only available as an option



4.2 Accessories

Accessories are parts or components that are not included in the basic equipment of your indoor base frame.

We recommend that you order the necessary accessories when you place your initial order. However, you can also purchase all accessory components at a later date.

Your operator/service provider will be happy to provide you with further information.

You can optionally purchase the following accessories:

- Wall and furniture protection
- 100 and 125 mm transport castors with kick-lock brakes
- Tilt protection
- Sliding bow
- Angle-adjustable sliding bow on the base frame
- Sliding bow on the seat plate, angle-adjustable
- Back without / with back attachment
- Wheelbase extension by 10cm
- Armrests standard / comfort
- Additional gas springs for gas spring height adjustment
- Therapy table with cut-out/, without cut-out
- Footrests with knee angles in various designs
- Heel edge
- Footrest cushion continuous/split
- Continuous/split calf pad
- Trapeze adapter
- Foot shells with foot straps
- Electric height adjustment with lithium-ion battery
- Hydraulic height adjustment
- Outdoor base frame

Further information and data can be found at: www.rehatec.com

Or simply request them by e-mail, fax or post.

4. Product and delivery overview

4.3 Inspection of the delivery

Please check your delivery for completeness, intactness and possible soiling.

In the event of damage, incorrect delivery or incomplete delivery, please contact us.

contact our customer service:

Telephone number: +49 (0) 6228-9136-0

When reordering accessories or spare parts, you should always quote the serial number. The serial number can be found on the rating plate. (See chapter "Symbols and signs on the product")



DANGER Choking hazard! Any packaging film must be kept away from children. must be kept away from children!



DANGER In the event of defects, damage or modifications, the appliance must not be used. and must be taken out of service immediately!



WARNING Any combinations of the appliance with third-party products are generally not permitted and can be dangerous. The manufacturer accepts no liability for damage and complications resulting from such combinations!



DANGER! The electrical appliance must not be operated by small children or untrained personnel / users / operators!



DANGER! The control unit may only be connected to the specified voltage. See chapter "TECHNICAL DATA".



IMPORTANT! The control unit, manual control and drives are maintenance-free and designed for the entire service life of the appliance. Parts such as the battery and the fuse switch may need to be replaced due to reduced capacity/wear.

5. Operation

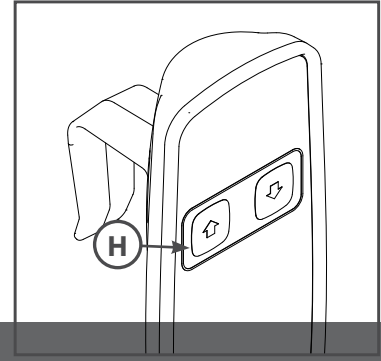
5.1 Device and patient transport

i **IMPORTANT** Do not use sharp objects to operate the keypad!

The drive of the appliance is controlled via the hand control. The bottom row of buttons (H) is used to adjust the height.

The motor only operates when the button is pressed and held. Release the pressed button as soon as you have reached the desired position.

Avoid rapid, alternating switching from one direction of travel to the opposite direction without stopping the motor.



5.2 Control unit (optional)

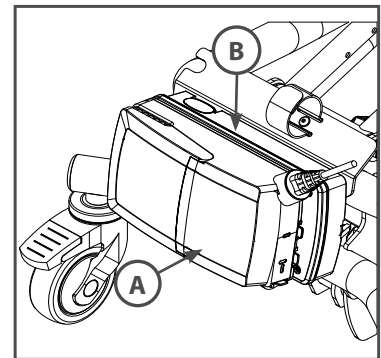
The control unit [A] evaluates and informs about the status of the system and the control unit according to the programmed parameters.

We recommend always positioning the device (even devices with a rechargeable battery) near a power socket with a mains supply (230 V, 50/60 Hz).

Once the power supply has been established, the appliance switches on with a delay. Wait at least 15 seconds before use and check the status of the control unit.

See chapter "LED indication" and "Audible signals" for detailed description of status indication.

For configuration with battery. As an alternative to the mains cable connection, the motors can be operated with a lithium-ion battery [B]. As long as the control unit is supplied with mains voltage, the automatic charging circuit (charger is integrated in the battery) ensures permanent operational readiness. The connected battery is automatically charged as soon as the mains plug is connected to the control unit.



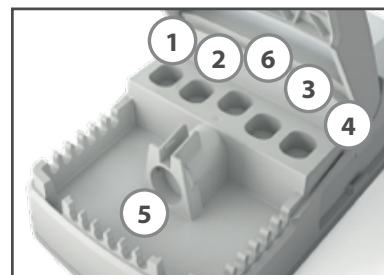
! **DANGER!** The appliance may only be connected to the mains power supply if the mains voltage of the socket matches the specification on the rating plate or in the "TECHNICAL DATA" section!

! **DANGER!** Opening the housing of electronic components is prohibited! All electrical components are closed units that do not require internal maintenance!

i **IMPORTANT!** When connecting the drive or hand control cables, ensure that they are connected correctly. All free sockets must be fitted with dummy plugs!

5. Operation

Socket	Connection
1	Height adjustment drive
2	Blanking plug
3	Blanking plug
4	Blanking plug
5	Manual control
6	Battery or blanking plug

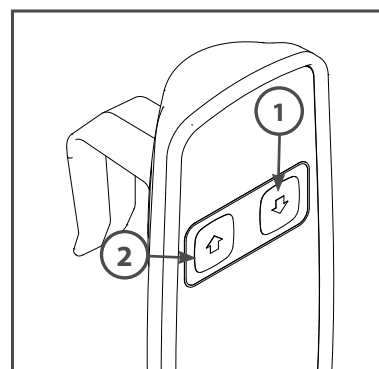


5.3 Acoustic signals

The buzzer emits a continuous warning when a button on the hand control is pressed and the battery capacity is low. Connect the device to the mains immediately!

You will hear a single brief warning or a mechanical "clack" sound from the drive after pressing the "arrow down" button [1] when adjusting the height if the safety switch of the drive has been activated due to collision of the moving parts.

i If the appliance does not move down when button [1] is pressed, but there are no collisions (can occur without patients in the appliance) and you hear a "clack" sound from the drive, press the appliance down lightly on a firm surface - with button [1] pressed - to activate the clutch (ratchet spline).



You will hear several short warning tones when the button is pressed if the position of the drive cannot be determined by the control unit or if the components are not connected correctly.

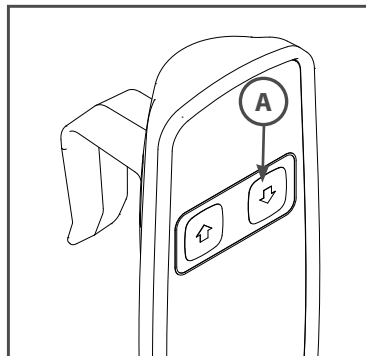
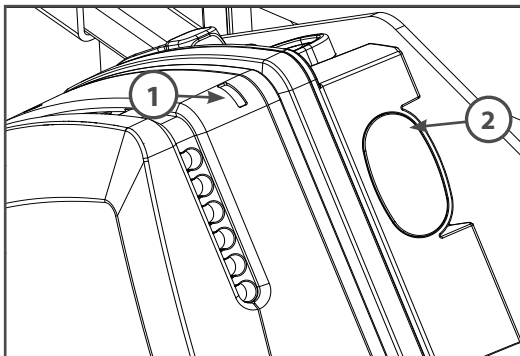
To re-initialise the motor, the drive must be fully retracted to the end. To do this, first press the two buttons "1" and "2" on the hand control simultaneously (approx. 5 seconds) and then alternately press button [1] until the motor is completely retracted. If this does not solve the problem, please contact your specialist dealer.

i To retract the motor completely, you may need to bring the seat mount into a horizontal position and remove the footrest with brackets or adjust it parallel to the floor.

5.4 LED - Indication

The control unit is equipped with a green LED for the mains power indicator. If the control unit is connected to the mains, the LED lights up green. If it is only connected via the battery, the LED is off.

Other possible LED signals are listed in the following table.



LED colour	indicator de funcționare
LED indicator #1 (control) – connected to the mains	
Green	Connected to the mains, but not activated via manual operation. The system works perfectly and is ready for normal operation.
Yellow	Connected to the mains, but not activated via manual operation. The system is defective and should not be operated
Yellow	On the mains, activated via manual operation (when button [A] or [B] is pressed) The system works perfectly.
No LED light	Not connected to the mains
LED display #1 (control unit) - not connected to the mains, but with AKKU back-up	
Orange	Via battery, activated via manual operation. The system works perfectly.
No LED light	Connected to the mains, but not activated via manual operation (standby mode) or the control unit is not connected to the mains.
LED indicator #2 (battery)	
Solid yellow	Charging
No LED light	Fully charged
Flashing yellow *	Error during charging





(*) - If the battery is completely discharged, the charging process is started at a very low speed to protect the battery from defects. In this case, the yellow LED flashes.
If the battery does not stop flashing within 12 hours and does not switch to the normal charging process (LED lights up yellow continuously), the battery is defective and must be disposed of in accordance with the instructions

5.5 Duty cycle

The drive may be operated under nominal load for a maximum of 2 minutes, after which a break of 18 minutes must be taken. Or operate the tilt drive for a maximum of 5 switching cycles per minute under nominal load, otherwise a functional failure may occur.

5. Operation

5.6 Lithium-ion battery (optional)

-  **DANGER!** The battery cells can develop excessive heat in the event of a short circuit or mechanical damage!
-  **DANGER!** Defective or damaged batteries are not authorised for transport and must be disposed of in accordance with local regulations.
-  **DANGER!** Observe the switch-on time: 10 %, 2 minutes continuous operation, followed by 18 minutes break!
-  **IMPORTANT** Lithium batteries are dangerous goods and therefore require special transport packaging. All national and international shipments containing lithium batteries are subject to the transport regulations for dangerous goods according to ADR, RID, ADN, IMDG, ICAO / IATA regulations.

If you ship lithium-ion batteries individually, use a label with UN3480.

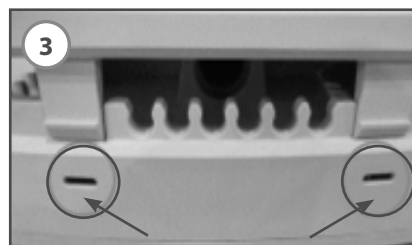
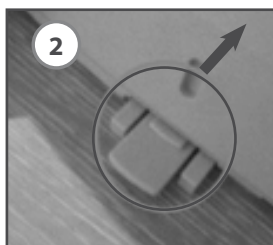
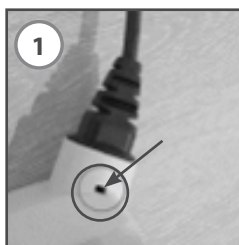
If you are shipping lithium-ion batteries contained in or packed with equipment, use a label with UN3481



-  **IMPORTANT** Read chapter "LED indication" and "Acoustic signals".for a detailed description.

Follow the steps and instructions below to install (remove / replace) the battery.

- 1.Disconnect the power cable from the mains. Pull the power cable out of the control unit by inserting a screwdriver into the labelled safety clip (Fig. 1).
- 2.Detach the control unit from the appliance by pressing on the tab on the 2 mounting clips and slide the control unit in the direction of the arrow (Fig. 2). Open the cover of the control unit by releasing the locking clips with the screwdriver (Fig. 3) and disconnect the motor and control cables.



-  **IMPORTANT** When disconnecting the drive cables or hand control cables, please ensure that the connections are correct.

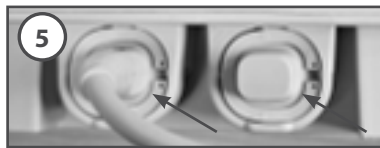
- 3.Plug the supplied battery connection cable into one of the two battery connections (Fig. 4) . Ensure that it

is fully connected.

4. Insert the supplied dummy plug into the second battery connection (Fig. 4).

5. Secure the battery connection cable and the dummy plug with the retaining rings (Fig. 5).

i Use a thin screwdriver to remove the retaining ring (Fig. 5). Insert the screwdriver into the slot on the connection cable (Fig. 6). Press lightly to push the retaining ring upwards. After removing the retaining ring, the connection cable can be pulled out.



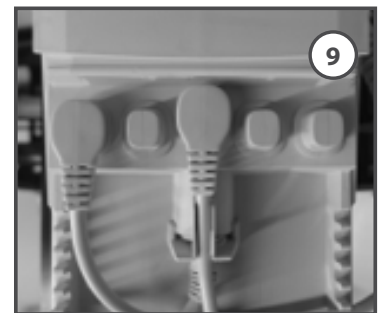
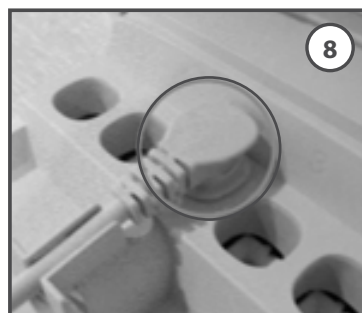
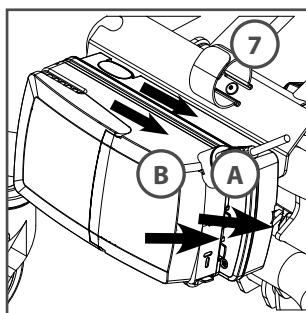
6. First connect the battery [A] and then the control unit [B] to the device and make sure that the locking clips are fully engaged (Fig. 7). If the clips are not fully engaged, the tab (shown in Fig. 2) will protrude.

7. Plug the battery connection cable (Fig. 8) into the battery connection and the other component in the control unit. Ensure that everything is fully connected and that all free sockets are fitted with dummy plugs (Fig. 9).

i **IMPORTANT** When connecting the drive cables or hand control cables, please ensure that the connections are correct. All free sockets must be fitted with dummy plugs!

8. Close the cover of the control unit and ensure that the locking clips engage fully.

9. Reconnect the mains cable to the control unit and ensure that the locking clip snaps into place (Fig. 1).



The process is identical for removing and replacing the battery

i **IMPORTANT** Fully charge the battery before using it for the first time!

Die erste Ladung kann bis zu 12 Stunden dauern. Bei normalem Gebrauch, nach Alarm oder bei schwacher Akkukapazität beträgt die Ladedauer des Akkus ca. 10 Stunden.

5. Operation

The connected battery is automatically charged as soon as the mains plug of the control unit is plugged in. The drives can be charged and adjusted at the same time. In the event of a power failure, the charged battery automatically powers the control unit.

Recharging during storage: The battery must be recharged for the first time no later than 12 months after the date of manufacture stated on the label. Thereafter, the battery must be recharged at least every 12 months.



IMPORTANT Read chapter "LED - Indication" and "Acoustic signals" for detailed description of indication.

Deep discharge protection: The battery has deep discharge protection to protect the service life of the battery. The deep discharge protection is activated when the battery is discharged.

Recharge the battery before storage if it has been fully discharged.



CAUTION Charge the battery to exit the deep discharge mode. Make sure that the battery is sufficiently charged before use! If these attempts are unsuccessful, your battery must be replaced!



DANGER! If the battery becomes hot, disconnect the cable connection and remove the battery from the room. If it is not possible to remove the battery, evacuate the room.



IMPORTANT If the battery is completely discharged, the charging process is started at a very low speed to protect the battery from defects. In this case, the yellow LED flashes.



If the battery does not stop flashing within 12 hours and does not switch to the normal charging process (LED lights up yellow continuously), the battery is defective and must be disposed of in accordance with the instructions.



IMPORTANT In the event of overheating, the device activates thermal protection. There is no output power until the temperature returns to the normal operating range. Excessive use at high temperatures or exceeding the duty cycle can lead to overheating!



IMPORTANT Dispose of the batteries in accordance with local regulations.

IMPORTANT If the appliance is more than 4 years old, it is recommended that the battery is replaced with a new one when it is replaced.

5.7 Hydraulic pump with foot pedal (optional)



DANGER! The base frame has many moving parts! Take care not to accidentally trap hands and feet between the moving parts!



WARNING! The base frame must be placed on a firm, level and horizontal surface.



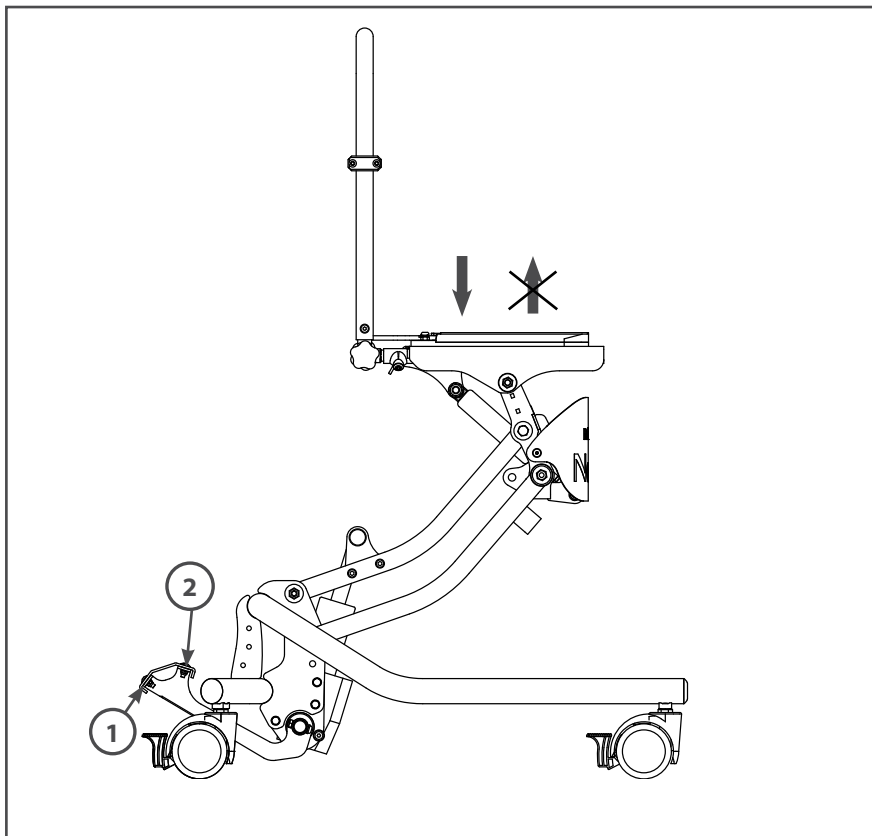
DANGER! Only make adjustments without a patient!

When using a chassis with a hydraulic pump, please note that the pump is not designed for tractive forces. Tractive forces can impair normal operation and even cause the pump to malfunction.

If the pump is not working properly, proceed as follows:

1. Place the seat support in a horizontal position.
2. The footrest with brackets should be removed or set parallel to the floor.
3. Press the lever upwards with the tip of your foot in the direction of the arrow [1], lift the seat fully up and then immediately lower it fully down.
4. Release the lever.
5. Check the function of the pump by pressing the foot lever down repeatedly in the direction of the arrow [2].

If the problem cannot be solved in this way, please contact your specialist dealer.



5. Operation

5.8 Drive wheels and drum brakes (optional)



DANGER Only make all settings without a patient!



WARNING! The base frame must be placed on a firm, level and horizontal surface.

The Noah Hi-Lo Base outdoor is equipped with two drive wheels (pneumatic tyres) with drum brakes and two castor wheels (6" PU). Proceed as follows to dismantle the drive wheels:

- Press the button on the quick-release quick-release axle [1] and
- and at the same time remove the wheel [2] from the base frame by pulling it in your direction.

Carry out the same steps in reverse order when installing.



DANGER! Due to wear and tear during use, the brakes may need to be adjusted for normal operation. The use of an under-carriage without proper brakes is prohibited!

To adjust the braking effect, proceed as follows:

- Release the brakes.
- Loosen the nut [3] anti-clockwise.
- Adjust the brake pressure by turning the screw [4].
- Turning the screw [4] towards the drum brake reduces the braking effect.
- When the adjustment is complete, retighten nut [3] clockwise.
- Check the braking effect according to the locking positions. Repeat the procedure if necessary.

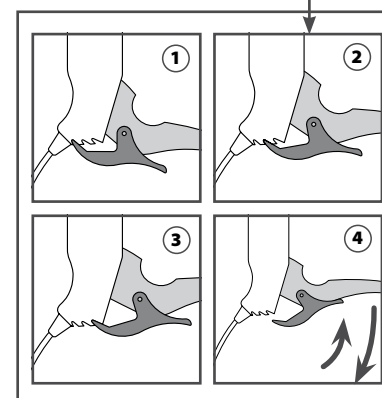
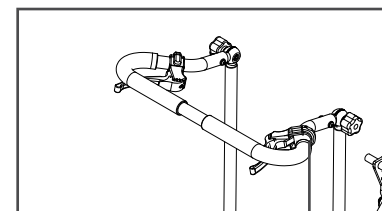
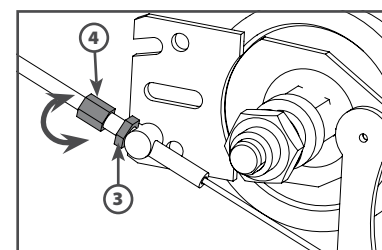
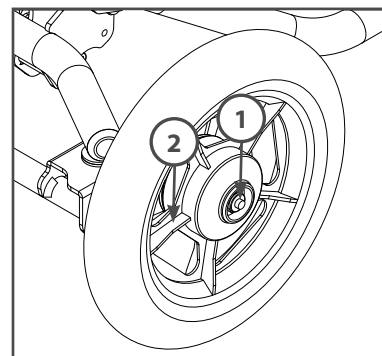
The brake levers are equipped with a position lock and, if the brakes are set correctly, the braking force is gradually increased when they are applied.

Slight braking (Fig. 1): Engage the lock in the first tothing by pulling gently on the brake lever.

Heavy braking (Fig. 2): Engage the hold-open device in the second tothing by pulling firmly on the brake lever.

Parking position (Fig. 3): Firmly pull the brake lever to engage the hold-open device in the third tothing.

Release the brake (Fig. 4): Tighten the hold-open device and brake lever, release the brake lever with the hold-open device tightened.



5.9 Device and patient transport



ATTENTION: Risk of accident! Before transport, the patient must be secured against accidentally falling out by means of appropriate straps!



ATTENTION: Risk of accident! Always ensure that the seat shell is securely fastened to the chassis before use or travelling!

For safe and comfortable device and patient transport, adjust the horizontal position of the seat support [1] and comfortable angle of the Push bar [2] or [3] in height. For this:

Loosen the star grip [4] anti-clockwise until the tooth segment can move freely.

Adjust the desired angle of the sliding bow [2] or [3].

Tighten the handle [4] clockwise again.



For more information on the tilt, see the "Tilt adjustment" and "Height adjustment" chapters.

Use the holding or sliding points [A] for the product transfer.



CAUTION The indoor base frame is very heavy and may only be lifted by at least 2 people!

For safe and convenient transport of the appliance:

1. Set the seat support [1] to the highest position.
2. take hold of the appliance on the right and left at the front and rear holding points (H) and lift it with two people at the same time.



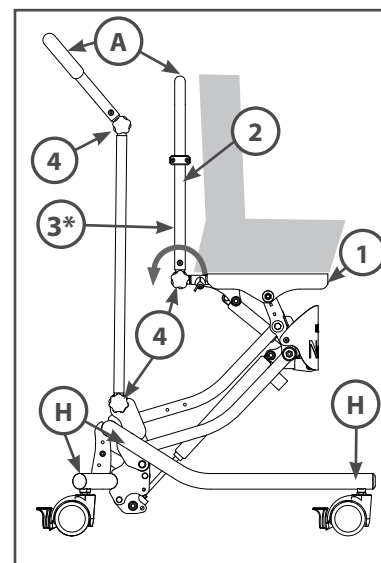
DANGER! The sliding bow must not be used to lift, carry or tilt the appliance.



DANGER! When pushing the appliance, especially in the highest position, the points mentioned must always be used to ensure a safe transfer. It is not permitted to push the device above the seat shell or on other components!






DANGER! Tighten all star knobs [4] again after each adjustment!



5. Operation

5.10 Installing the seat shell


-  **CAUTION: Risk of accident! Always ensure that the seat shell is securely fastened to the chassis before use or travelling!**
-  **DANGER! All assembly work may only be carried out by specialised personnel!**
-  **DANGER! Incorrect position of the patient's centre of gravity and mounted accessories can cause the device to tip over! Check the stability of the device in all sitting positions before use!**

The Noah Hi-Lo Base is supplied with a seat holder [1] and other possible accessories for attaching the seat shell. The seat holder has pre-drilled holes for mounting the seat shells or an optional trapeze adapter [2].



The service provider may drill holes for customised attachment without compromising the structure and safety.

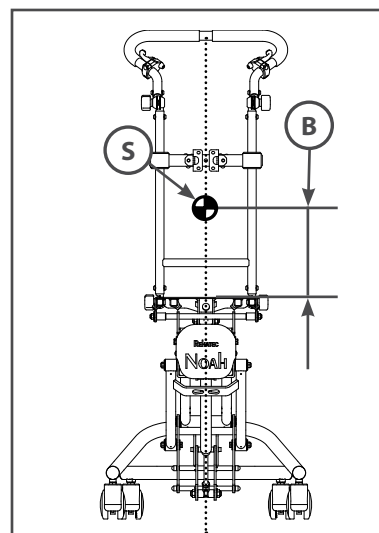
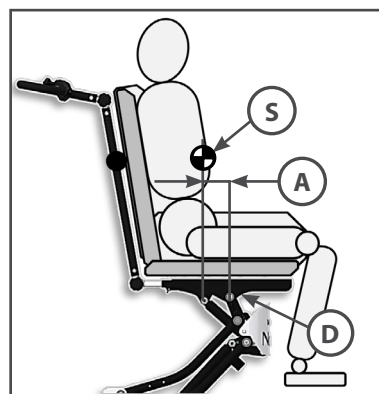
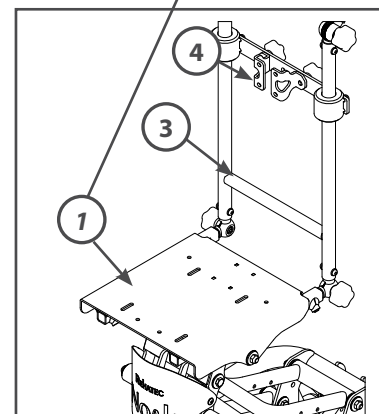
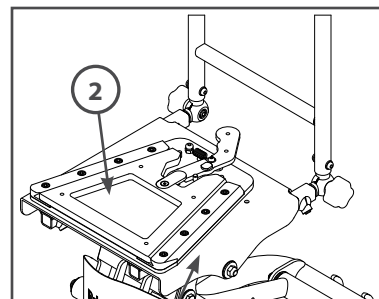
If required, the device can be equipped with a backrest [3] with tube guides for attaching the seat shells using angle brackets [4] or armrests.

It is recommended to position the patient's centre of gravity (S) behind the axis of rotation [D] of the seat support so that the distance [A] remains positive.

-  **DANGER! A strong forward or backward shift of the centre of gravity (S) can lead to difficulties when adjusting the seat tilt and to the appliance tipping over!**

It is necessary to maintain the position of the centre of gravity (S) of the patient with the seat shell in the centre of the seat support and to keep the distance [B] to a minimum.

-  **DANGER! A strong shift of the centre of gravity (S) upwards or far away from the centre of the seat mount can cause the device to tip over!**
-  **DANGER! The maximum permissible total weight must not be exceeded! See chapter "Technical data" or type plate!**



5.11 Trapezoidal adapter

The harness adapter is used to securely mount or attach a seating system.



DANGER! All installation work may only be carried out by qualified personnel!



DANGER! The seat system must always be securely locked to the adapter. Check the locking mechanism of the harness adapter by pulling on the seat shell as a test. The lock must not open without operating the lever.



DANGER! Assembly and adjustments are only permitted without occupants!



ATTENTION: Risk of accident! Always ensure that the seat shell is securely attached to the chassis before use or travelling!



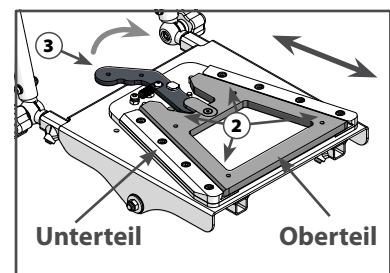
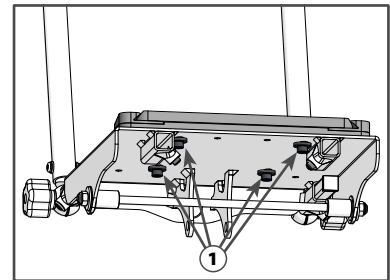
CAUTION The trapeze adapter must be fitted so that the seat system later points in the direction of travel.

For mounting the seat shell

- Screw the lower part of the trapeze adapter to the appliance using 4 screws [1].
- Screw the upper part of the trapeze adapter to the seating system using 4 threaded holes [2]

For attaching the seat shell

- Push the seat system with the upper section into the holder (lower section) of the trapeze adapter as far as it will go. The locking mechanism locks automatically.
- Check that it is securely locked by pulling on the seat shell.
- To remove the seat shell
- Unlock the lever [3] by pressing it and pull out the seat system.



5. Operation

5.12 Commissioning



WARNING Ensure that nobody can injure themselves while using the drive/gas struts!



CAUTION! WARNING Always keep an eye on the operator and all moving areas!



DANGER! In an emergency, the drive is stopped by pulling out the mains plug. The mains plug must therefore be accessible at all times during operation so that it can be pulled out of the socket quickly in an emergency! Disconnect the battery plug from the socket on the control unit.

For appliances with electric height adjustment (optional), please first carry out a visual inspection of the appliance, which should confirm the following:

- All cables are plugged in to the end.
- Cables and housings of electronic components are without visible defects.
- All screw connections have the necessary mating parts and are firmly connected.
- Frame components and transport rollers are without cracks and not deformed.
- All clamping elements of positioning elements (e.g. footrest) are available and functional.
- All contact surfaces are dry and not contaminated



DANGER! If defects are found during the visual inspection, the appliance must not be used until they have been rectified!

In the next step, the electrical system of the appliance must be checked for correct functionality. Please follow all the listed checks (read the description of the operation of the appliance and its components in the corresponding chapters of the operating instructions):

- Connect the appliance to the socket, the LED display on the control unit should not show any errors and should light up green.
- First set the appliance to a horizontal position
- Set the minimum height while holding down button [A]. Increase the angle of inclination if there is a risk of collision in zone [E]. Set the maximum height again with button [B] pressed. The motor must reach the stop. No jerking, creaking, vibration or external noise must be heard or seen! Observe the acoustic and LED signals of the control unit.
- For the last test, the battery must be fully charged and the controller should not generate any acoustic warnings or LED signals. Disconnect the device from the power supply and repeat the procedure from point 8, but use the battery.



DANGER! The drive is equipped with a clutch (ratchet spline mechanism) to prevent collisions. However, this mechanism cannot completely prevent damage to the device or injury to the user/patient! Always be aware of potential collisions between moving and stationary parts in the areas [E]!

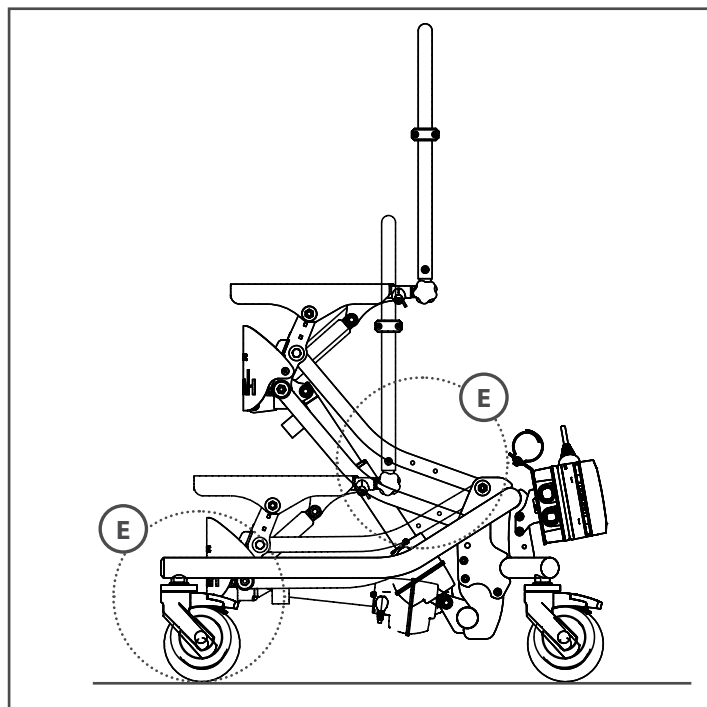
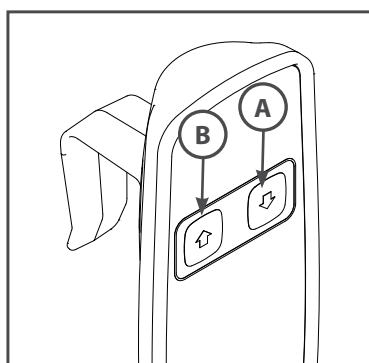


DANGER! If faults are detected in the system during the function test, the device must not be used until they have been rectified!



If the appliance does not move down when button [1] is pressed, but there are no collisions (can occur without patients in the appliance) and you hear a "clack" sound from the drive, press the appliance down lightly on a firm surface - with button [1] pressed - to activate the clutch (ratchet spline).

WARNING The battery must be fully charged for at least 24 hours before first use. The battery must be connected to the control unit!



Before the patient can be positioned in the device, it is adjusted to the patient's needs.

Detailed descriptions of the individual adjustment options to suit the patient's needs are provided in the following chapter.

For all configurations of the device, please carry out a visual inspection and functional test of the device, which should confirm the following:

- All Bowden cables are without defects and securely mounted.
- The gas spring or hydraulic pump has no oil leaks and the frame has no visible defects.
- All screw connections have the necessary mating parts and are firmly connected.
- Frame components and transport rollers are without cracks and not deformed.
- All transport castors are securely fastened and the parking brakes (optional drum brakes) function perfectly.
- All clamping elements of positioning elements (e.g. footrest) are available and functional.
- All contact surfaces are dry and uncontaminated.
- All folding buckles are securely fastened and guarantee reliable belt tension.
- The tilt adjustment and height adjustment function and the seat mount can be fixed in all positions.
- The harness/foot straps are without defects. The plug-in connections and the zip fastener function securely.

6. Operation/settings of the device and accessories

Before the device is set to the user's requirements and the user can be transferred to the Benni, the following preparations must be made:



DANGER! The appliance may only be adjusted by the operator/service provider!



WARNING Be aware of the risk of pinching and crushing during all adjustment work.

Adjustments should be carried out by two people to avoid the risk of crushing injuries!



WARNING The appliance must be placed on a non-slip, level, stable and horizontal surface and the transport castors must be locked before adjusting the appliance.



DANGER! Check the following points with your doctor before using the device:

- Disease-specific use of the device (contraindications)
- How long the patient may remain in the device to prevent possible injuries
- A suitable harness to securely fasten the patient
- Necessary accessories for correct and safe joint/body positioning
- Maximum possible setting limits for position elements of the device
- Frequency of use of the device/therapy plan



DANGER! Some settings on the appliance can only be made without a patient.



DANGER! Some settings on the device require additional space for safe device handling. See "Minimum dimensions of the patient environment" for the required dimensions.



CAUTION Maximum adjustment ranges must not be exceeded. A secure connection of the parts must be ensured!

6.1 Transport rollers (optional)

The four castors are equipped with a parking brake.



WARNING The base frame must be placed on a firm, level and horizontal surface.



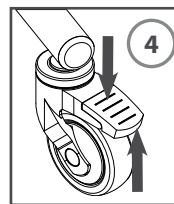
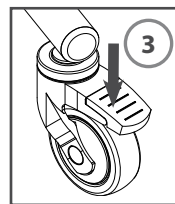
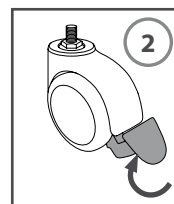
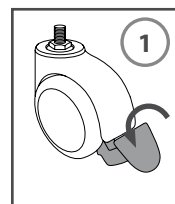
WARNING When using the appliance, only wear closed shoes with a firm toe!









WARNING To prevent unintentional rolling away, all four transport castors should be locked To lock the castors: press the locking device downwards (Fig. 1 and 3).

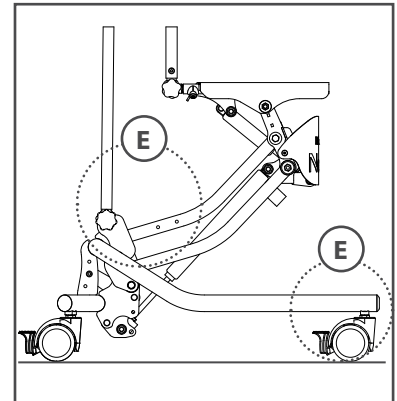
Releasing the castors: press the locking device upwards with the tip of your foot (Fig. 2)

Optional for castors Ø 100mm and Ø 125mm: press the locking device downwards or upwards as shown in picture 4.




6.2 Height adjustment

-  **DANGER!** The base frame has many moving parts! Take care not to accidentally trap hands and feet between the moving parts!
-  **DANGER!** Be aware of and avoid possible collisions between the moving and fixed parts or the floor! Risk of tipping over and injury!
-  **WARNING** The appliance must be placed on a firm, level and horizontal surface.
-  **DANGER!** Please note that the centre of gravity of the appliance will shift if the height is changed! Follow the instructions in the chapter "Transporting the device and patient".
-  **DANGER!** The device must not be operated by small children or untrained personnel / users / operators!
-  **WARNING** Always be aware of possible potential collisions between moving and stationary parts in the areas [E]!



The seat height can be adjusted using a hydraulic foot pump and the seat angle using a gas pressure spring.



For appliances with electric height adjustment (optional):

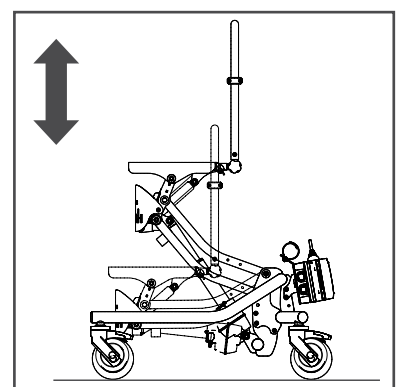
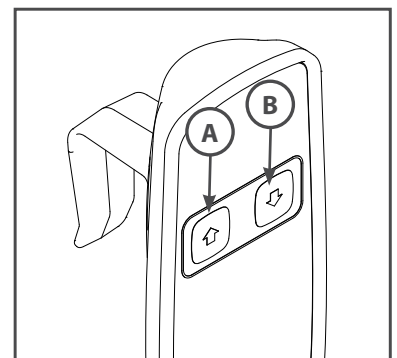
-  **DANGER!** Always bring the seat into the horizontal position. position before reducing the height!

To raise the base frame, press button [A] on the hand control. The height adjustment drive will stop automatically when the maximum point is reached.

To move down, press button [B]. The height adjustment drive will stop automatically when the lowest position is reached.

Release the respective button as soon as you have reached the desired height.

-  **IMPORTANT** If the base frame moves upwards instead of downwards when button [B] is pressed, check for possible collisions with fixed parts. See chapter "Control and indication".
-  **DANGER!** Simultaneous height and tilt adjustment is prohibited! Risk of injury!



6. Operation/settings of the device and accessories

For appliances with height adjustment by gas pressure spring:

Adjust the seat height downwards: Actuate the release lever [A] on the left-hand side (Fig. 1) of the device with the corresponding symbol (marked in red), at the same time press down the seat support. When the desired height is reached, release the release lever [A] of the gas pressure spring.



WARNING Rapid actuation of the release lever without/with a patient will result in rapid movement of the seat support upwards or downwards! You can control this acceleration by gently activating the release lever.



DANGER! Always bring the seat into the horizontal position. Position, bevor Sie die Höhe verringern!

Adjust the seat height upwards: Actuate the release lever [A] on the left-hand side. At the same time, pull the handle and the base frame upwards, as shown in Fig. 2.



DANGER! Simultaneous height and tilt adjustment with patients is prohibited! Verletzungsgefahr!



WARNING The force required to adjust the height using the gas spring may vary depending on the load. Before use, the operator should try to change the height adjustment himself

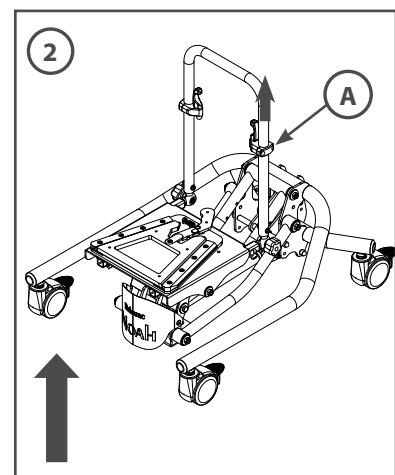
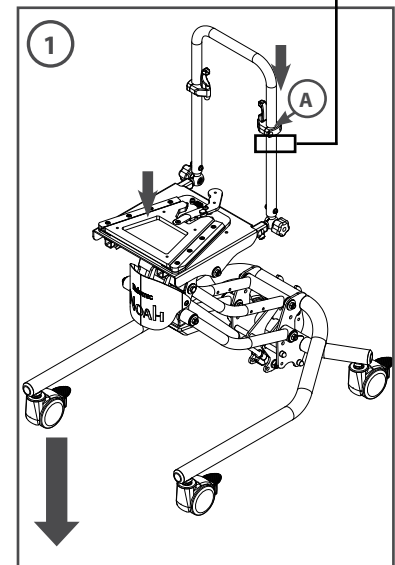
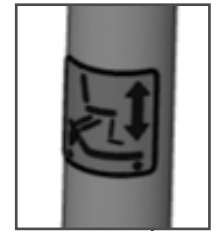
- without load, but with the seat shell fitted

- under a load that corresponds approximately to the patient's weight.

If the force required for adjustment is not acceptable, contact your dealer for a possible solution (e.g. electric drive, foot pump or additional gas springs).



Release levers can be located on the Push bar, but are always labelled accordingly.



For appliances with height adjustment by foot pump:



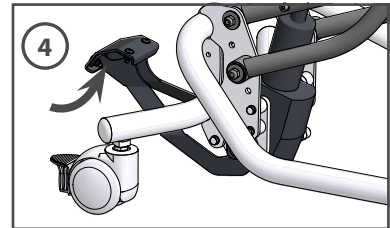
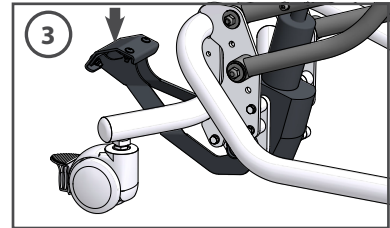
DANGER! Always bring the seat into the horizontal position. position before lowering the height!

Adjust the seat height upwards (Fig. 3): Press the pedal down with your foot down several times until the desired height is reached.

Adjusting the seat height downwards (Fig. 4): Gently lift the pedal with your foot from below until the desired height is reached.



IMPORTANT For a very low position, it may be necessary to use the accessories (e.g. footrest) may need to be removed.



6.3 Adjusting the seat tilt



DANGER! The base frame has many moving parts! Take care not to accidentally trap hands and feet between the moving parts!



DANGER! To avoid circulatory problems, raise and lower the patient slowly and gradually!



WARNING Always be aware of potential collisions between moving and stationary parts in areas [E]!

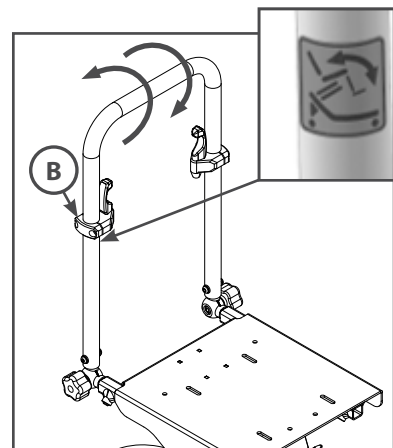
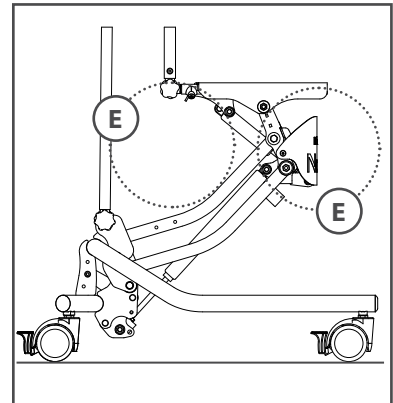
To adjust the tilt, press the release lever [B] on the right-hand side of the appliance (marked with a yellow sticker and corresponding symbol) while pulling the sliding bow in the desired direction. When the desired inclination is reached, release the release lever [B] of the gas pressure spring.



DANGER! Simultaneous height adjustment and tilt adjustment with patients is prohibited! Risk of injury!






Release levers can be located on the sliding bends, but are always labelled accordingly.



6. Operation/settings of the device and accessories

6.4 Tilt protection



-  **DANGER!** The anti-tippers are not suitable as a replacement for drive wheels or rear castors!
-  **CAUTION** To overcome obstacles, the anti-tipper must be in the passive position.
-  **DANGER!** The anti-tipper does not work on soft ground or uneven terrain.

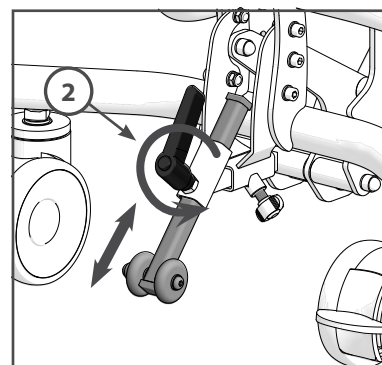
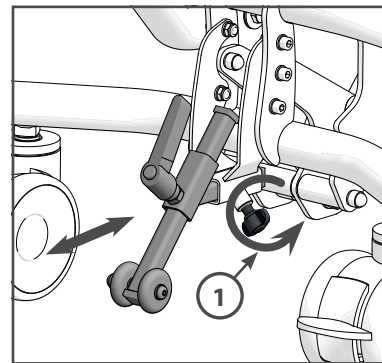
For assembly and dismantling:

Loosen the wing screw [1] anti-clockwise and position the anti-tilt device in the holder as far as it will go. Now retighten the wing screw [1] clockwise.

For height adjustment:




Loosen the clamping lever [2] anti-clockwise and adjust the height of the anti-tilt device. Now tighten the clamping lever [2] again by turning it clockwise.

-  **CAUTION** The distance between the anti-tip wheels and the floor should not exceed 2 cm.
-  **DANGER!** The maximum adjustment is reached when the tube ends are flush with the guides!




6.5 Push bar and back

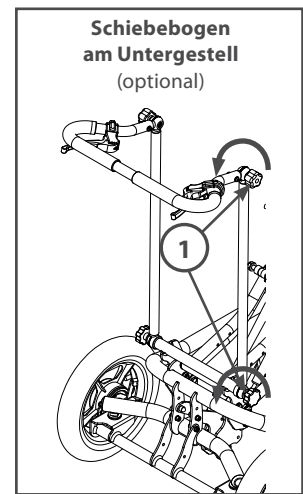
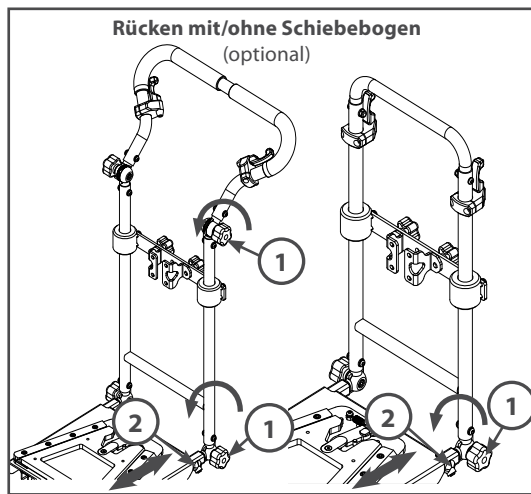
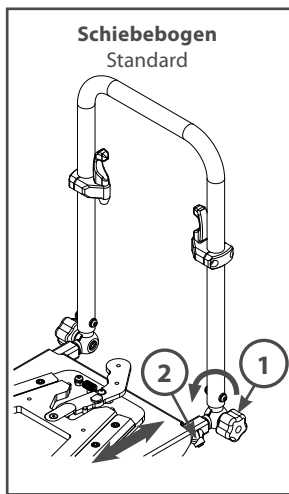
The sliding bow makes it easy to adjust and move the indoor base frame during everyday use.

-  **CAUTION** Risk of collision! Before adjusting the height, the seat must always be brought into a horizontal position!
-  **DANGER!** Due to increased risk of tipping - do not hang any objects on the Push bar.
-  **DANGER!** The sliding bow must not be used to lift, carry or tilt the entire appliance.

For angle adjustment

- Loosen the star knobs on both sides [1] anti-clockwise until all tooth segments can move freely.
- Adjust the Push bar angle.
- Tighten the star knobs [1] again clockwise so that all tooth segments engage with each other.

-  The Push bar can be completely folded forwards for easy transport or storage of the indoor base frame.



For depth adjustment (only for Push bar on the seat plate)

- Open the screws [2] anti-clockwise.
- Adjust the depth of the Push bar.
- Tighten the screws [2] clockwise again.



DANGER! The maximum adjustment is reached when the tube ends are flush with the guides!



DANGER! Tighten all screw connections after each adjustment!

6.6 Back attachment for seat shell



GDANGER! If the configuration of your device with seating system includes additional brackets/fastenings, use of the device without these fastenings or with defective components is prohibited!

The backrest attachment for the seat shell is used for additional fixation or adjustment of the desired backrest angle.

Two optional mounting options are available: back mounting with fixed angle (image A) or with adjustable angle (image B).

The service provider can determine whether the installation of the optional back attachment is required for the seating system.

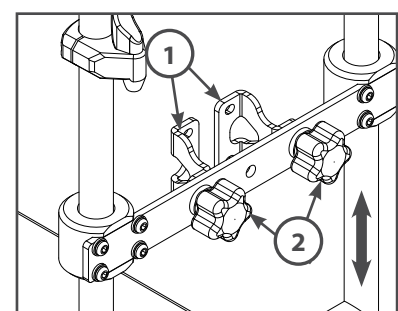
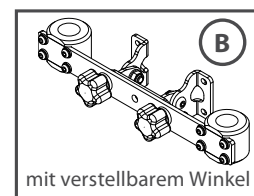
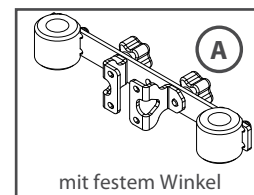
The seat shell/unit can be easily attached to the angle adapter [1] using four screws. For quick and easy installation or removal of the adapted seat shell/unit on the back of the indoor base frame, turn or unscrew the hand-wheel [2] firmly.



DANGER! Retighten all screw connections after each adjustment!



ATTENTION: Risk of accident! Always ensure that the seat shell is securely fastened to the chassis before use or travelling!



6. Operation/settings of the device and accessories

6.7 Comfort armrest



DANGER! The appliance may only be retrofitted with these accessories by qualified personnel!



DANGER! Armrests are not suitable for lifting/carrying the appliance. Do not hang any objects on the armrests - risk of tipping!



DANGER! Be aware of the risk of pinching and crushing fingers!

Height adjustment

Hold the armrest bracket [1] firmly with one hand and loosen the two grub screws [2] anti-clockwise with the other hand. Now adjust the bracket [1] to the required height and fix it in place by turning the two grub screws [2] clockwise.

Width adjustment

Loosen the wing screws [3] anti-clockwise until the square bracket can be moved freely. Set the desired width and fix the bracket in place by turning the wing screws [3] clockwise.



CAUTION! The maximum width is reached by pushing the frame a maximum of 60 mm from each side!

Angle adjustment

Loosen the screws [4] anti-clockwise until the toothed connection can move freely.

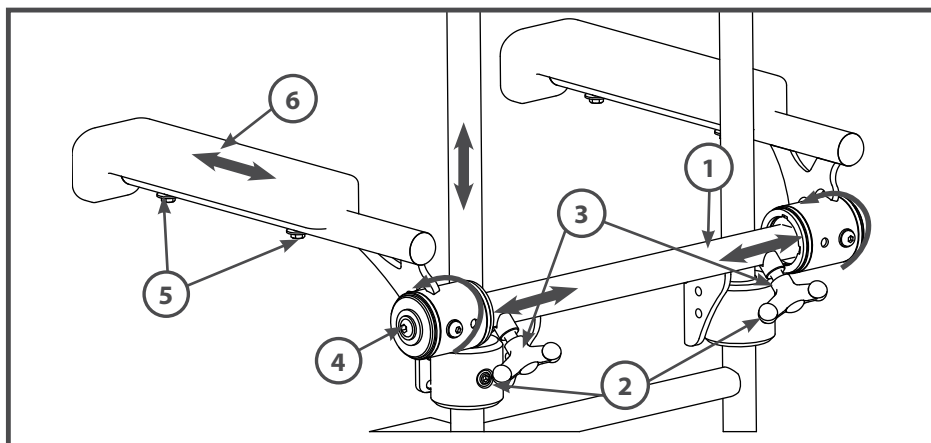
Position the armrest at the desired angle and tighten the screw [4] clockwise until all the tooth connections engage.

Depth adjustment

Unscrew both screws [5] anti-clockwise and move the armrest pad [6]. Then retighten the two screws [5] clockwise.



DANGER! After each setting you have made, disconnect all tighten all screw connections again!



6.8 Standard armrest



DANGER! The appliance may only be retrofitted with these accessories by qualified personnel!



DANGER! Armrests are not suitable for lifting/carrying the appliance. Do not hang any objects on the armrests - risk of tipping!



DANGER! Be aware of the risk of pinching and crushing fingers!

Height adjustment

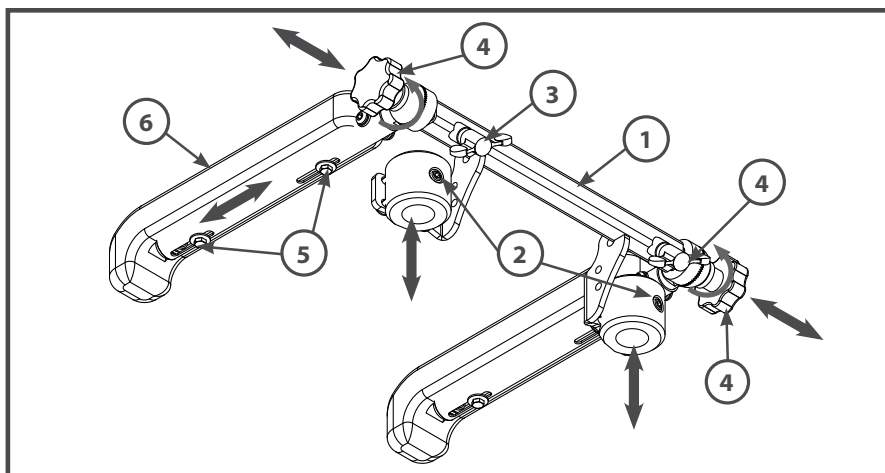
Hold the armrest bracket [1] firmly with one hand and loosen the two grub screws [2] anti-clockwise with the other hand. Now adjust the bracket [1] to the required height and fix it in place by turning the two grub screws [2] clockwise.

Width adjustment

Loosen the wing screws [3] anti-clockwise until the square bracket can be moved freely. Set the desired width and fix the bracket in place by turning the wing screws [3] clockwise.



CAUTION! The maximum width is reduced by a maximum of 60 mm when the from each side!



Angle adjustment

Loosen the star knobs [4] anti-clockwise until the toothed connection can move freely.

Position the armrest at the desired angle and tighten the star knobs [4] by turning them clockwise until all the tooth connections engage.

Depth adjustment

Unscrew both screws [5] anti-clockwise and move the armrest pad [6]. Then retighten the two screws [5] clockwise.



DANGER! After each setting you have made, disconnect all Schraubverbindungen wieder fest!

6. Operation/settings of the device and accessories

6.9 Therapy table, fold-down (optional)

The width and depth of the therapy table can be continuously adjusted to the patient's requirements. It can be easily folded to the side to place the patient in or remove them from the device.

Angle and tilt adjustments can be realised by adjusting the armrest. See chapters "Standard armrest" and "Comfort armrest"



DANGER! Be aware of the risk of fingers being trapped or crushed!



DANGER! The maximum adjustment is reached when the tube ends are flush with the guides!



DANGER! The maximum permissible load on the table is 5 kg!



DANGER! For stability, it is important that the therapy table always rests on both armrests.

Attaching/removing the table

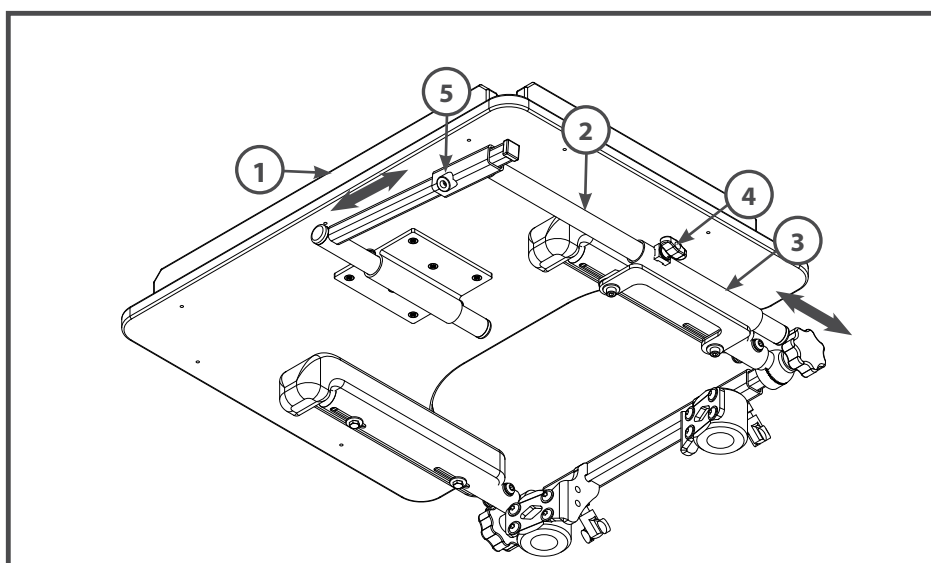
Insert the table holder tube [2] into the corresponding table holder on the armrest [3]. Position the table at the correct depth. Tighten the wing screw [4] clockwise. Repeat the steps in reverse order to remove the table.



The therapy table can also be swivelled sideways by loosening the wing screw.

Width adjustment of the table holder

Loosen the grub screw [5] anti-clockwise and adjust the table support tube [2] to the required depth. Then tighten the grub screw [5] clockwise!



6.10 Footrest support / knee angles

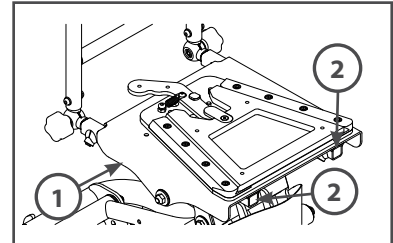
The seat mount [1] of the Noah Hi-Lo Base is always equipped with mounts [2] into which the adjustable knee angles [3] of the footrests can be fitted. The angle and depth of the knee brackets can be adjusted.

Depth adjustment

Loosen the grub screws [4] anti-clockwise. Adjust the depth of the knee angle [3]. Tighten the grub screws [4] clockwise again.



DANGER! The maximum adjustment is reached when the tube ends are flush with the guides!

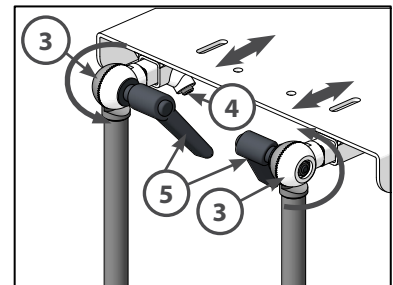


Angle adjustment

Loosen both clamping levers [5] anti-clockwise. Adjust the knee angle with footrest to the desired angle. Tighten both clamping levers [5] clockwise again.



DANGER! Retighten all screw connections after each adjustment!!



6.11 Footrest, full-length (optional)



DANGER! Do not step onto the footrest when sitting down or standing up - there is a risk of tipping over!

The footrest [1] can be adjusted in height, depth and inclination.

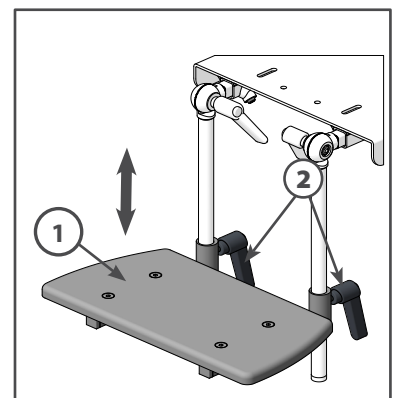
To adjust the depth and inclination, see chapter "Footrest support / knee angles"

Adjusting the footrest height

Loosen the two clamping levers [2] anti-clockwise and adjust the footrest [1] to the desired height. Then tighten the two clamping levers [2] clockwise again.

Optionally, the footrest can be equipped with a "fold-up mechanism" (image A) or with adjustable foot angles (image B).

The "fold-up mechanism" can be quickly folded upwards to make it easier to get on and off.

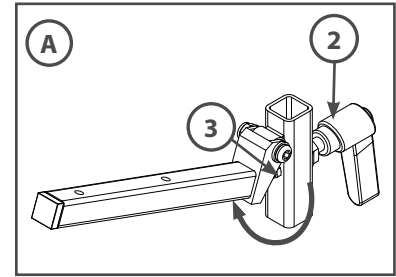


6. Operation/settings of the device and accessories

Setting the foot angle for the "flip-up mechanism" (image A)

To increase the footrest angle of the footrest downwards, adjust both stop screws [3] by turning them clockwise.

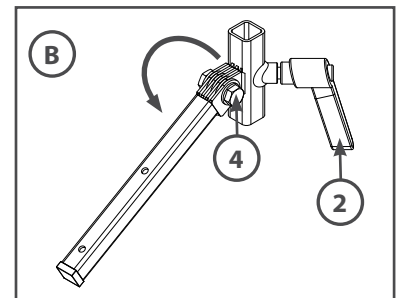
To increase the footrest angle of the footrest upwards, adjust both stop screws [3] by turning them anti-clockwise.



Setting the foot angle for "adjustable foot angle" (Fig. B)

Loosen the two hexagon head screws [4] anti-clockwise and adjust the footrest to the desired angle. Then retighten the two hexagon head screws [4].

 The depth and footrest angle are set as described in the chapter "Footrest support / knee angles".



6.12 Footrest, split (optional)



DANGER! Do not step onto the footrest when sitting down or standing up - there is a risk of tipping over!

The split footrest [1] can be individually adjusted in height and laterally in angle in addition to the standard adjustment options of the continuous footrest.

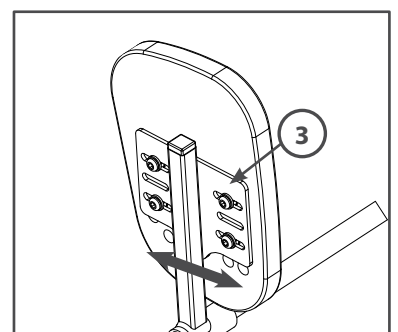
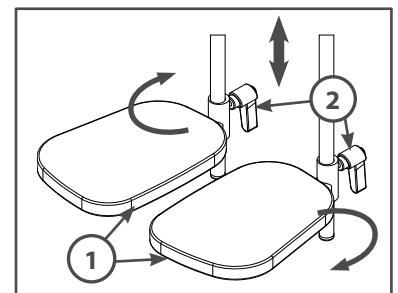
Adjusting the footrest height

Loosen the two clamping levers [2] anti-clockwise and adjust the footrest [1] to the desired height. Then tighten the two clamping levers [2] clockwise again.

Adjusting the footrest positions

Loosen the 4 Allen screws [3] of the respective footrest anti-clockwise and position the respective footrest [1] according to your requirements. Then retighten the 4 Allen screws [3] of the respective footrest in a clockwise direction.

The split footrest can optionally be fitted with a ball joint [4] for pointed foot correction.



Adjustment of the foot angle with a ball joint

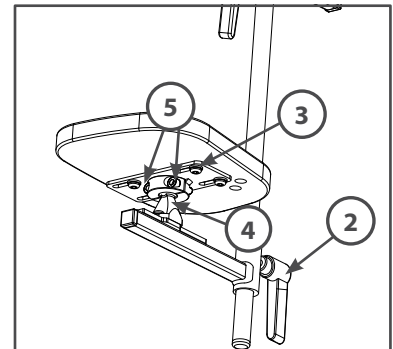
Loosen the two hexagon head screws [5] anti-clockwise and adjust the footrest to the desired angle. Then retighten the two hexagon head screws [5].



The depth and footrest angle are set as described in the chapter "Footrest support / knee angles".



DANGER! Retighten all screw connections after each adjustment!



6.13 Foot shells

The foot shells [1] are used to position the feet firmly on the footrest if required and to secure them with foot straps [2] using Velcro fasteners (Fig. A).

To open the Velcro fastener, pull on the edge of the upper strap until it opens while holding the lower strap.

To close the Velcro fastener (image B), first place and hold the strap with the upper hooks (H) in the desired position and then place the other strap with fleece (F) on top with a little tension and press it lightly over the entire overlap length (L).



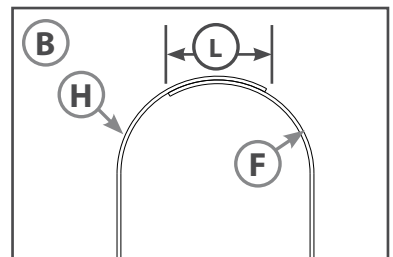
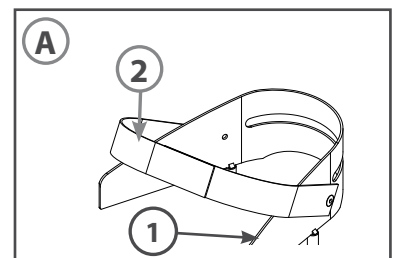
WARNING For secure fastening of the hook and loop fastener (Fig. B), it is necessary that the overlap length (L) of the hooks (H) and the flap (F) is at least half of the full hook length!



WARNING If present, the patient should only sit in the device with appropriate footwear.



WARNING The Velcro fastener loses its adhesive properties due to wear over time or possible soiling. If the straps are soiled or worn, both straps must be replaced immediately! Contact your dealer for a replacement.



6. Operation/settings of the device and accessories

6.14 Calf pad

The calf pad (continuous or split) provides additional comfort for the patient when positioning the legs.

Adjusting the calf pad height

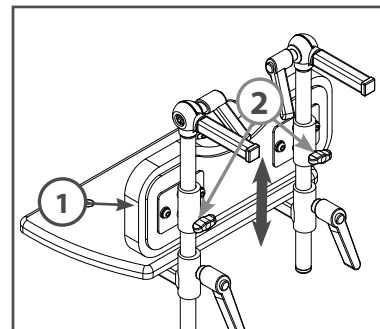
Loosen the corresponding wing screws [2] anti-clockwise. You can now adjust the height of the calf pad [1] and retighten the wing screws [2] clockwise.



The depth is adjusted as described in the chapter "Footrest support / knee angles".



The height of the split calf pad can be individually adjusted.



7. Cleaning and disinfection

The user is responsible for regular maintenance and care.

In the event of complaints or problems, please contact your service provider/dealer!

7.1 Safety instructions for cleaning and disinfection



DANGER A neglected, inadequate or incorrectly executed (under the use of cleaning or disinfection (using the wrong agents or procedures) can pose a serious risk to the operator and patients!



DANGER Maintenance, cleaning, repair and adjustment work may only be carried out without the patient in the device!



DANGER Disconnect the mains plug before carrying out any technical work or cleaning processes on the electrical appliance!



DANGER When cleaning and disinfecting, completely remove any residues of the agents used to avoid poisoning, irritation and allergic reactions!



CAUTION Do not use abrasive agents or cloths to clean the appliance!



WARNING Care and safety instructions for the use of the respective cleaning / disinfecting agents! disinfectants!



WARNING Heavily soiled, cracked, holey and contaminated foam parts that have an adhesive connection to support elements must be replaced. There is no cleaning facility for these parts!



CAUTION Do not use cleaning agents with solvents if these can affect the structure and consistency of wood, wooden surfaces and paint coatings, foam/plastics, plastic surfaces (benzene, toluene, acetone, etc.) and metal paintwork and coatings.



WARNING The appliance must not be used if it comes into contact with moisture. Immediate drying must then be ensured!



CAUTION The product and its accessories are not intended for machine cleaning.



CAUTION The product and its accessories are not intended for cleaning by spraying and washing with pressure or steam cleaners! Do not use high-pressure cleaners must not be used!



CAUTION No germicidal or other irradiation for the purpose of disinfection may be used. irradiation must not be used if the irradiation has a direct effect on wood, plastics and metals and their surfaces and coatings.



CAUTION Cleaning agents and disinfectants may only be diluted in accordance with the instructions of the respective manufacturer!



CAUTION All soft and textile components must be cleaned before basic cleaning. dismantled before basic cleaning!



CAUTION After cleaning or disinfection, all soft and textile components must be must be completely dried before they are reattached to the device!



CAUTION The cleaning of a medical device is the sole responsibility of its owner. Failure to clean the device may invalidate the device warranty and affect the clinical condition and safety of users and/or carers.

7. Cleaning and disinfection



DANGER Risk of electric shock! Electrical components must not be immersed in water or splashed with water!



DANGER Follow these instructions and the dosage prescribed by the cleaning agent manufacturer.



CAUTION Connecting cables must remain plugged in during cleaning to prevent water ingress. All free sockets must be fitted with dummy plugs!



IMPORTANT Some liquids used in healthcare can cause permanent stains! Test the cleaning agent on a small/invisible area of the surface.

7.2 General cleaning and disinfection process

Remove the following components and clean them separately (if this is not possible, protect them against cleaning agents): Accessories, cushions/upholstered elements, wooden parts, power supply units (drive, battery and hand control).

To avoid degreasing the piston rod, the drive should be retracted to the minimum stroke and without load before cleaning.

See table [A] for frequency of use for cleaning & disinfection for various components of the appliance.



Important information on reuse can be found in chapter "9. Reuse and changing patients"

Table A: Frequency of use for cleaning & disinfection

Device components	Daily	Weekly	Monthly	Annually	Patient change	Complete cleaning	Reuse
Control elements: clamping elements, release/brake levers, push handle, etc.	o	o	o	+	o	+	+
Armrests, footrests, tables, wheel guards or similar fixed contact surfaces	o	o	+	+	+	+	+
Hand-held switches (remote control)	o	o	o	+	o	+	+
Cables, electrical controls	-	-	+	+	-	+	+
Drives (e.g. pump/gas pressure spring/motor)	-	-	o	+	-	+	+
Transport rollers	-	-	o	+	o	+	+
Textile covers/belts/textile elements	o	o	o	+	+	+	+
Covers/straps made of imitation leather	o	o	o	+	+	+	+
Upholstery *	o	o	o	o	o	x	x
Frames, brackets, structural elements	o	o	o	+	o	+	+

* Upholstery glued to metal parts cannot be cleaned and disinfected safely and must be completely replaced with new assemblies as necessary.

+ = necessary; o = recommended/as necessary; - = not necessary; x = replacement/disposal only

7.3 Thorough cleaning before first use / storage

When unpacking the appliance, visually inspect all visible surfaces for dirt, damage or foreign substances.

Each appliance must be completely cleaned and disinfected (except for the foam pad) before first use.

It is recommended that the appliance and accessories are inspected at least every 2-3 weeks or as required.

basic cleaning at least every 2-3 weeks or as required. For detailed information on the frequency of use, see table [A].

Always consult the manufacturer of the cleaning agent and its dilution when selecting the cleaning agent.

cleaning agent manufacturer according to the material table below [B].

Before storage, the appliance should be completely cleaned (with all accessories) as it will be when it is used again.

and disinfected.

When the appliance is used again, old upholstery and padded parts must be replaced.

7.4 Cleaning when used as intended (also in domestic areas)

It is recommended that all parts of the device that have been touched by patients and operators, as well as all handles and accessories, are cleaned daily.

Use a soft cloth, warm water and a mild detergent to remove dirt and clean the product. Spilt liquids should be removed as quickly as possible.

Never use polishing powder, steel wool or other materials and cleaning agents that could damage the surface of the appliance.

Never use strong acids or alkalis. The optimum pH value is 6 - 8.

Wash or replace padded elements as required.

Removable foam padding (without metal parts) and covers made of textile fabric (not imitation leather) can be machine washed at max. 40 °C.

Clean the foam upholstery parts in a tub/sink with warm water by adding a little detergent and leaving to soak for approx. 1 hour. Then rinse with clear water and hang up to dry.

Subsequent use of the appliance is only permitted for completely dry and clean appliances.

7.5 Cleaning and disinfection between patients

Before the device is used for therapy with a new patient, it must be carefully prepared:

- All hard surfaces that come into contact with the patient must be cleaned and treated with a disinfectant.
- All covers (made of imitation leather) must be cleaned and treated with a disinfectant.

7. Cleaning and disinfection

7.6 Cleaning and disinfection before reuse

Before the device is used again, it must be carefully prepared:

- All hard surfaces that come into contact with the patient must be cleaned and treated with a disinfectant.
- All covers/straps must be cleaned and treated with a disinfectant.
- If contaminated, all covers, foam elements and existing straps must be cleaned or replaced!
- All PU foam padding cannot be disinfected or washed and must therefore always be replaced with new ones before reuse.

7.7 Selection of cleaning agents or disinfectants

When selecting a cleaning/disinfecting agent and its dilution, always consult the manufacturer of the cleaning agents in accordance with the material table [B] below.



IMPORTANT Some liquids used in healthcare can cause permanent stains! Test the cleaning agent first on a small/ invisible area of the surface.

Table B: List of materials used

Part of the device	Material
Rollers	ABS, S-Z, PA 66, TPE
Metal components of the device	S -P/-C/-Z, ALU-E
Plug-in buckle	POM / PA 66
Buffer	Rubber
Screws, pins, nuts	S -Z/-N, ES
Wooden parts Fine veneer / solid wood	PU lacquer coating
Faux leather covers	PVC compound, BW/P knitted fabric, PU
Textile covers	P, PA
Upholstery parts	PU foam
Strapping	P, PA

Material	Abbreviation
S-P*	Steel, powder-coated**
S-C	Steel, chrome-plated
S-Z	Steel, galvanised
S-N	Steel, nickel-plated
ALU-E	Aluminium, anodised
ES	Stainless iron (stainless steel)
POM	Polyoxmethylen
PTFE	Polytetrafluoroethylene
PU	Polyurethan
PA	Polyamid
P	Polyester
PVC	Polyvinyl chloride compound
TPE	Thermoplastic elastomers
BW	Cotton

(**) – All powder coating materials are epoxy resin/polyester-based.

For example, you can consider products from the following manufacturers of cleaning agents/disinfectants:

Dr. Schumacher GmbH, Bode Chemie GmbH, Schülke & Mayr GmbH, Ecolab GmbH, B. Braun Melsungen AG, Dürr Dental AG and Lysoform Dr. Hans Rosemann GmbH..

7.8 Cleaning & disinfecting solid surfaces

Only cleaning agents and CE-certified disinfectants that are intended for cleaning medical devices and have an optimal pH value of 6.5–7.5 may be used.

Cleaning of:

- coated and painted metal surfaces
- coated and painted wooden surfaces
- hard plastic surfaces of star handles, wing screws, clamping levers

is best done with a soft, dry towel, a slightly damp microfibre cloth and lukewarm water (with or without cleaning agent)

Disinfection of:

- coated and painted metal surfaces
- coated, covered and painted wooden surfaces
- hard plastic surfaces of star handles, wing screws,

This is best done with soft cleaning cloths made of paper and microfibre. The disinfectant must not be sprayed directly onto the product. To do this, spray a soft cloth and apply the disinfectant to the surfaces.

The device and its accessories must not be sprayed with liquid agents to prevent liquids from penetrating.

To avoid skin irritation or allergic reactions, ensure that no residues of cleaning agents or disinfectants remain on the surfaces.

Then dry the parts thoroughly.

7.9 Cleaning & disinfecting covers

Covers made of artificial leather must be disinfected with a CE-certified surface disinfectant. The disinfectant must then be wiped away completely with a damp cloth and dried thoroughly with a microfibre cloth.

Alternatively, disinfection can be carried out in a cold fogging system!

7. Cleaning and disinfection

Any stains on artificial leather covers (Skai covers) should be removed as soon as possible with lukewarm water and a slightly damp cloth, preferably microfibre or cotton. For heavier soiling, a warm, mild soapy water solution and a soft hand brush or a soft sponge can be used. The cleaning process may need to be repeated several times.

Afterwards, wipe away the cleaning agent residues with a damp cloth.

Textile covers (not artificial leather) and straps can be washed in a washing machine at up to 40°C using a conventional CE-certified disinfectant detergent.

Only disinfectants for textiles that are specifically intended for medical devices (e.g. RHEOSOL-Deso) and fulfil the following requirements are permitted:

- Proof of efficacy from 40°C,
- CE certified medical device,
- RKI or VAH listed (recommended),
- Authorisation in the EU (recommended).

Dry cleaning and bleaching of fabrics is not permitted.






Tumble drying is only permitted at a low temperature (gentle). Dry the items thoroughly afterwards.

Iron fabrics only with a warm iron.











To avoid skin irritation or allergic reactions, make sure that no residues of cleaning agents or disinfectants remain on the fabrics.

Dry the items thoroughly afterwards.

Table C: Symbols for substances

Symbol	Meaning
	Wash cycle 40°C, easy care or delicate cycle
	Do not bleach
	Iron with a lukewarm iron
	Tumble dry at low temperature (gentle)
	Clean with perchloroethylene

8. Maintenance and inspection

-  **DANGER** Before starting any maintenance work, it is essential to disconnect the mains plug from the power supply!
-  **DANGER** Never use a device that is not in perfect condition!
-  **DANGER** If there is excessive wear or if worn product parts are not replaced, the safety of the product may no longer be guaranteed!
-  **DANGER** Faults, malfunctions or defects may only be rectified by the manufacturer, operator or service provider!
-  **DANGER** Do not make any modifications to the product!
-  **WARNING** Only use original spare parts/accessories or those approved by *Rehatec® GmbH*!
-  **IMPORTANT** In the event of complaints or problems, please contact your service provider/operator!
-  **WARNING** During all repair and adjustment work, be aware of the risk of pinching and crushing!
-  **CAUTION** During all maintenance or inspection work, follow all instructions in the 'Cleaning and disinfection' section!
-  **IMPORTANT** All electrical components are maintenance-free and designed for the entire service life of the device (except for the battery).

8.1 Maintenance

Before each use, please check the following functions:

- All connection parts and components required for the supply.
- The functions of the brakes. A safe braking function must always be guaranteed.
- Check the LED indication of the control system (see section '5.4 LED indication').
- Check that the battery has sufficient capacity (see section '5.4 LED indicator').
- All visible screw connections are secure and complete.
- The gas pressure spring functions properly when adjusting the angle and can securely fix the reclining board in all positions.
- The electric drives function properly during height adjustment, without noise or jerking.
- All upholstery and accessible surfaces must be checked for tears, scratches and scuff marks. Defective parts must be replaced!
- All elements of the harness are secure and complete. Defective parts must be replaced!

Regular care and maintenance

For safety reasons, it is important that all components are undamaged during use. Therefore, check them regularly and have them repaired or replaced if necessary.

The device must be serviced and maintained at regular intervals by trained specialist personnel.

The maintenance requirements are based on the checks listed in section '8.3 Inspection plan'.

-  **DANGER** A maintenance interval of 12 months is specified for the device in accordance with the following inspection plan.

8. Maintenance and inspection

8.2 Inspection



IMPORTANT To document the proper condition of the device and to document any abnormalities, malfunctions and defects, use the inspection plan from chapter '8.2 Inspection plan'!



WARNING Ensure that every safety inspection is entered in the test report. The documentation must be kept until the device is disposed of.

A visual inspection and mechanical function tests must be carried out during an inspection.

If necessary, care and maintenance work must be carried out or repairs ordered. Missing, damaged or contaminated parts must be replaced.

When ordering spare parts, dealers or the manufacturer's sales department can provide advice by stating the serial number, appliance type and date of manufacture.

8.3 Inspection plan



IMPORTANT Inspections must be carried out by the operator/service provider and documented on a copy. This documentation is specific to the appliance and serves as proof when the appliance is reused, passed on and when warranty claims are made. Please keep it together with the operating instructions.

Product	serial number	Scheduled maintenance intervals
<input type="text"/>	<input type="text"/>	12 months

Item	Assembly		Settings & functions		Damage & deformation		Screw connections	
			without defects	with defects	without defects	with defects	without defects	with defects
1	Frame	Base frame and lever mechanism	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Transport castors and parking brake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Tilt adjustment with gas pressure spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Height adjustment by E-drive / gas spring / foot pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Plug connections (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Enclosures for electrical components and cable lines (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Fastening/clamping elements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Bowden cables and release levers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Battery (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Hand control (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Mains cable/plug (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		E-drive (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Wheelbase extension (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Tilt protection (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Drive wheels with mount and quick-release axles (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Steering wheels (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Drum brakes with brake handles (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Additional gas springs (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Sliding arch on the frame (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Actuating foot lever with hydraulic pump (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Seating area	Seat mount	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Footrest mounts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Trapezoidal adapter (optional)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Sliding bar on the seat plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. Maintenance and inspection

Item	Assembly		Settings & functions		Damage & deformation		Screw connections	
			without defects	with defects	without defects	with defects	without defects	with defects
		Handlebar cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Back area (optional)	Back with/without sliding arch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Handlebar cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Backrest attachment for seat shell with fixed/adjustable angle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Armrests Standard / Comfort	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Armrest cushion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Therapy table (optional)	Brackets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Wooden parts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Fastening/clamping elements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Foot area (optional)	Knee angles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Footrest, split	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Footrest, continuous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Pointed foot correction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Footrest holder „fold-up mechanism“	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Footrest holder with adjustable foot angles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Calf pad (divided / continuous)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Footrest pad (split / continuous)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes for any repairs and further maintenance:

Inspection carried out on

Inspection carried out by

Signature



You can also find an inspection plan that can be filled out interactively on our homepage in the download area.

9. Reuse and patient change



DANGER Before each reuse, the product should be thoroughly inspected in accordance with the inspection plan in the 'Inspection Plan' chapter and cleaned in accordance with the 'Cleaning and Disinfection' chapter!



DANGER Ensure that the stickers on the product are not damaged during reprocessing! The safety information must be clearly legible!



DANGER The service provider is responsible for ensuring that the user has the instructions for use and the necessary knowledge to use the product!



DANGER The individual needs and clinical pictures of patients must always be taken into account!



DANGER The usage time must not exceed the specified service life of 8 years! Continued use after the end of the service life can only be approved after a thorough inspection by the manufacturer/distributor!

9.1 Reuse

The Noah Hi-Lo Base is generally suitable for reuse (e.g. after storage or transport), although products are subject to particular stress during reuse.

The operator/provider is responsible for ensuring that the device is in perfect condition and that it is reprocessed as necessary.

When reusing the product, it is important that all documents relating to the device (such as instructions for use, delivery note, inspection plans, etc.) are available.

If the product is passed on to another operator, all documents relating to the device must also be passed on to the next user.

The appliance may only be handed over to other operators if the labels (manufacturer and safety instructions) on the appliance are undamaged. The information on the appliance type and date of manufacture must be clearly legible for the new user.

All upholstery (padded parts) must be replaced when the appliance is used again!

Textile covers and straps are recommended to be replaced. See chapter "Cleaning and disinfection" and follow the corresponding instructions!



IMPORTANT If the appliance is more than 4 years old, it is recommended to replace the rubber damper with a new one when using it again.

9.2 Patient change

The user is responsible for safe patient transfer and necessary reprocessing. If you have any problems, please contact your service provider / dealer!

The Noah Hi-Lo Base is generally suitable for changing patients; configurations with imitation leather covers are recommended.

All surfaces that come into contact with patients must be cleaned and disinfected!

Textile covers and straps are recommended to be replaced. See chapter "Cleaning and disinfection" and follow the corresponding instructions!

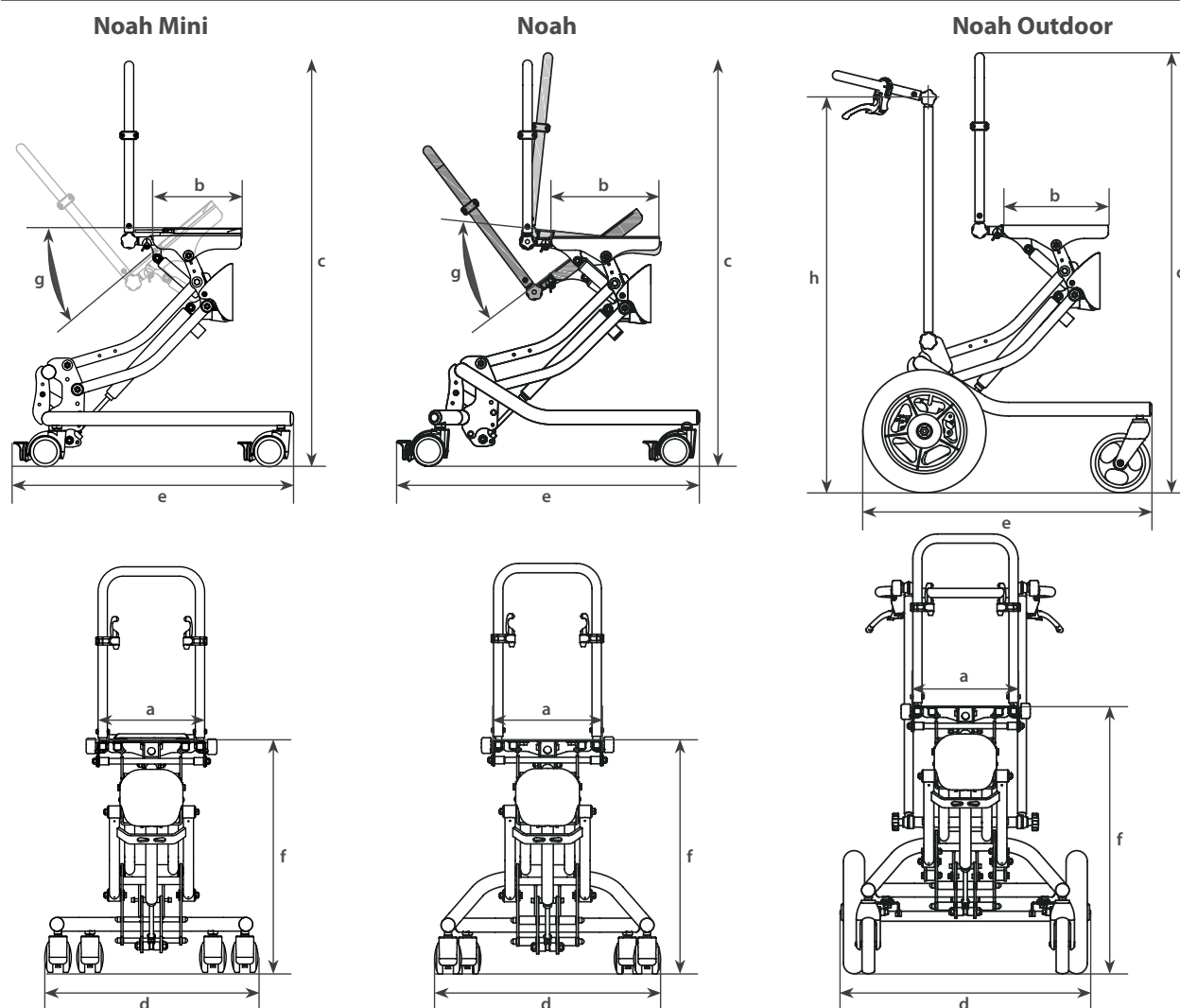
10. Technical data

10.1 Mechanical and electrical data

Noah Hi-Lo Base

Ambient conditions during operation			
Operating temperature	+10 °C to +35 °C		
Humidity	30% to 70% (non-condensed)		
Air pressure	700 hPa to 1060 hPa		
Environmental conditions during storage and transport			
Temperature	-10 °C to +45 °C (+10 °C to +25 °C recommended)		
Humidity	20% to 70% (non-condensed)		
Air pressure	800 hPa to 1060 hPa		
Electrical data			
Protection class	II		
Degree of protection	BF		
U (In)	100-240 V AC, 50/60 Hz		
P (In)	420 VA		
System voltage	24 V DC		
Operating time of the electric motor	max. 2 minutes ON / 18 minutes OFF		
EMV	All components fulfil Directive 2014/30/EU and IEC 60601-1-2. Product of CISPR11, Group 1 Class B		
Power SMPS / at rest	200W / ~ 0,8 W		
Battery / TYPE	Lithium-ion battery		
Battery / Nominal voltage / Capacity	25,7 V / 2,85 Ah / 73,25Wh		
Battery / Charging time	~10 hours (simultaneous use of the device is possible)		
Protection class according to DIN EN 60529 (IP)			
Control box	IPX6		
Drives for height adjustment	IPX4		
Manual control	IPX4		
Battery module	IPX6	General for the device	MIN IP22
Functional data			
Max. Patient weight	Size Mini	Size 1	Size 2
	40 kg	65 kg	75 kg
Angle of inclination	-6° to 37°		
Adjustment	Due to gas pressure spring		
Service			
Maintenance	See chapter "Service and maintenance" in the operating instructions.		
Weight			
Total weight (for the basic equipment)	Size Mini	Size 1	Size 2
	~ 17 kg	~ 18,5 kg	~ 21 kg
transport dimensions			
[width]x[length]x[height] (for the basic equipment)	Mini	1	2
	53x68x100 cm	55x73,5x100 cm	65x76x98 cm

10.2 Mechanical data



Dimensions

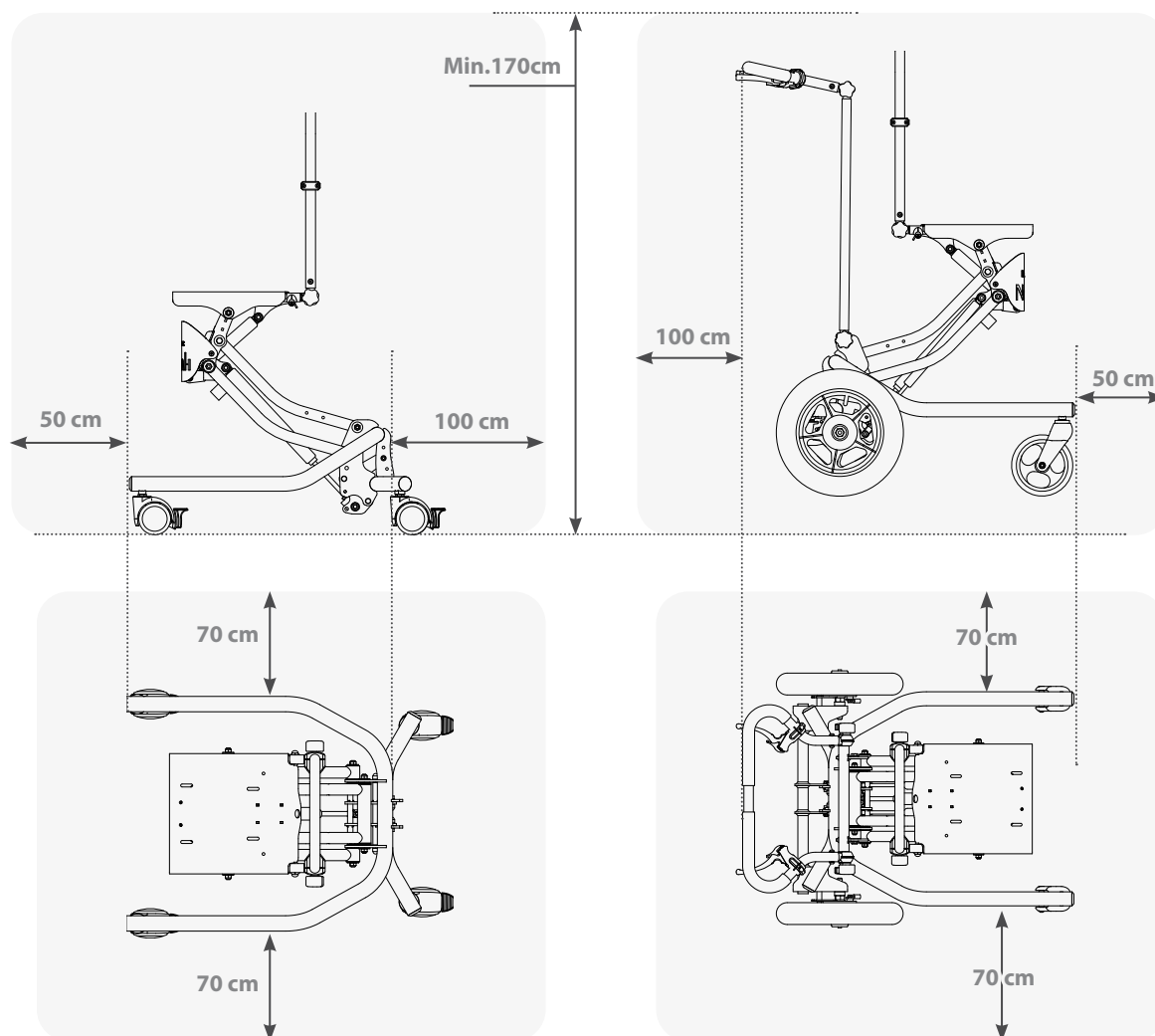
Size	(a) Wide seat plate	(b) Deep seat plate	(c) Total height			(d) Total width	(e) Total length
			Gas spring	Electric	Hydraulic		
Mini	26,5 cm	22,5 cm	100 cm	—	—	53 cm	69 cm
1	26,5 cm	26,5 cm	100 cm	101 cm	102,5 cm	55 cm	73,5 cm
2	30,5 cm	32,5 cm	98,5 cm	100,5 cm	101,5 cm	65 cm	76 cm
1 (Out)	26,5 cm	26,5 cm	109 cm	108 cm	—	62,5 cm	72,5 cm
2 (Out)	30,5 cm	32,5 cm	107,5 cm	106,5 cm	—	67,5 cm	82 cm

Size	(f) seat height			(g) c Seat angle	(h) Height of Push bar on the frame	Maximum Load
	Gas spring	Electric	Hydraulic			
Mini	21,5 - 57 cm	—	—	0° to 40°	98 cm	40 kg
1	21,5 - 57 cm	30 - 58 cm	25,5 - 59,5 cm	-6° to 37°	98 cm	65 kg
2	23 - 57 cm	30,5 - 59 cm	26 - 60 cm	-6° to 37°	98 cm	75 kg
1 (Out)	32 - 66,5 cm	36,5 - 64,5 cm	—	-6° to 37°	98 cm	65 kg
2 (Out)	32 - 66 cm	36,5 - 65 cm	—	-6° to 37°	98 cm	75 kg

10. Technical data

10.3 Minimum extent of the patient environment

In grey are marked required free areas, which are necessary for safe patient environment and comfortable operation of the device.



10.4 Electromagnetic compatibility



WARNING Although the system has no active or sensitive parts, there is a risk that the proper operation of devices that emit or generate electromagnetic fields may be impaired.



WARNING Be aware of possible electromagnetic interference that the device could cause to the operation of devices in its vicinity that generate electromagnetic fields.

Radiation

The Electric Raising System is intended for use in the electromagnetic environment specified below. The customer or the user of the electric raising system should assure that it is used in such an environment.

Emission measurements	Compliance	Electromagnetic environment guidelines
HF emissions according to CISPR 11	Group 1	The electrical erection system uses RF energy exclusively for its internal function. Therefore, its RF emission is very low and it is unlikely to interfere with neighbouring electronic devices.
HF emissions according to CISPR 11	Class B	The electric raising system is intended for use in all facilities, including Residential areas Facilities that are directly connected to a public supply network that also supplies buildings for residential purposes.
Harmonics according to IEC 61000-3-2	Class A	
Voltage fluctuation/flicker according to IEC 61000-3-3	Class A	

Interference with other devices

The use of drive systems next to or on top of other devices should be avoided as it can lead to malfunctions. If such use is necessary, the drive system and other devices should be observed to verify that they are functioning normally. If the user notices unusual behaviour or interruptions in the drive system caused by mobile phones, microwaves or transmission towers, this could be a sign of electromagnetic interference.

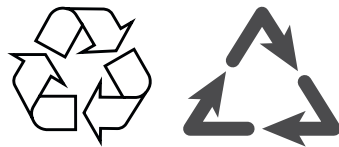
Portable HF communication devices (including peripherals such as antenna cables and external antennas) should not be used closer than 30 cm (12 inches) from any part of the drive system, including cables specified by the manufacturer. Failure to do so could result in poor performance of the device.

11. Disposal

The Noah Hi-Lo Base must be disposed of properly. Please contact your specialist dealer for this.

Packaging materials must be separated according to waste type and disposed of in the waste containers in accordance with the municipal recycling concept. Waste disposal may vary from municipality to municipality.

The product consists of recyclable steel and aluminium alloys, European types of wood and plastic. For proper disposal, please contact your local waste disposal centre (recycling centre) or your local authority.



Observe the disposal regulations in your country.

For all components to be disposed of, the operator must ensure that they are not infectious / contaminated.

Outside Europe, the relevant laws and regulations of the respective country must be observed.
must be followed.



The product must not be disposed of with household waste.

Dispose of the appliance when recycling electrical appliances.

12. Warranty

Warranty services relate to product defects that are demonstrably due to material or manufacturing faults.

We guarantee the frame parts of the Noah Hi-Lo Base for 3 years from the date of delivery. Any defects will be repaired by **Rehatec® GmbH** free of charge. Electrical components, upholstery, wooden parts, castors, gas springs and Bowden cables are excluded from the guarantee.

Rehatec® GmbH cannot accept any further warranty or liability for damage resulting from:

- the use of replacement parts and accessories that are not original or have not been approved by **Rehatec® GmbH**
- modifications or interventions on the product without the approval of **Rehatec® GmbH**
- Natural wear and tear or excessive use
- improper use or damage caused by force
- Non-compliance with the instructions for use
- accidental damage
- repairs or modifications carried out by untrained persons or persons not authorised by **Rehatec® GmbH**

The warranty does not apply to design changes made without written authorisation from **Rehatec® GmbH**.

Defective or replaced parts are the property of **Rehatec® GmbH**.

The guarantee does not cover accidental damage.

The guarantee applies to new devices.

REHATEC®

warranty card

You have purchased a high-quality product from **Rehatec® GmbH**.

The Rehatec® product described below is of impeccable quality and appropriate construction. **Rehatec® GmbH** undertakes to pay damages, damage caused by material defects within the scope of the two-year guarantee, free of charge from the date of purchase.

Only upholstery, fabrics and castors are excluded from the guarantee.

Noah Hi-Lo Base

Model name

Serial number

Date of purchase

Stamp and signature of the dealer

--

notes

[illegible]

REHATEC®

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