

till.



Instructions for use.

till. The adjustable supine standing frame.




schuchmann®

Many thanks.



Dear Customer

At this point we would like to thank you for placing your trust in our company and for purchasing our product. We ask you to read through the Instructions for use carefully prior to initial commissioning of the product, and to observe them. Please note that guidelines and representations in these Instructions for use may deviate from your product due to differing equipment. We reserve the right to make technical modifications.

Important information!

Ensure that these Instructions for use remain with the product.

Your **schuchmann** Team



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1. Preparation.

1.1 Delivery

On receiving the product, please check it for completeness, lack of faults and any transport damage. Inspect the goods in the presence of your forwarder. Should transport damage have occurred, please arrange for an inventory (determination of the faults) to be made in the presence of the forwarder. Please send a complaint in writing to the specialist dealer responsible.

1.2 Safety measures prior to use

The correct use of the product requires detailed and thorough instruction of the user or the accompanying person. We ask you to read through the Instructions for use carefully prior to initial commissioning of the product, and to observe them. It is possible that product parts that get in contact with the skin may heat up in the sun. Depending on the duration and intensity of solar radiation, the surfaces of individual parts can heat up to over 41°C and thus lead to slight burns in the event of direct skin contact. Therefore cover these areas or protect the device from direct sunlight.

1.3 Safe disposal

In order to preserve and protect the environment, to prevent environmental pollution and to improve the recycling of raw materials, please note the disposal instructions in **points 1.3.1 and 1.3.2.**

1.3.1 Packaging

The product packaging is used for protection during transport and should be stored in case the product needs to be transported again. Should you have to return the product for repairs or in case of a guarantee claim, please if possible use the original box so that the product is optimally packaged. Should you no longer require the packaging materials, separate and recycle them.



Do not leave packaging materials unattended, as they are a possible source of danger.

1.3.2 Product

At the end of the product life cycle, recycle the raw materials used in the product according to their nature (see material information under **point 2.1).**

1. Preparation.

1.4 Where to store the Instructions for use

Please store these Instructions for use carefully and ensure that these instructions for use remain with the product in case of re-use. Should you lose the instructions, you can always download an updated version at www.schuchmann.de.

2. Product description.

2.1 Material information

The sub-frame and the individual elements are made from steel (corrosion-free and cathodic-dip coated or powder coated), aluminium and plastic. All body supports (except for three-dimensionally adjustable knee pelotte pads) are padded and covered. The footrests are made from wood and have grip tape stickers. The covers are made of 100% polyester and are flame resistant (according to DIN EN 1021-1+2). Different materials consisting of polypropylene, polyester or polyurethane were used for the padding.

2.2 Handling and transport

The **till.** supine standing frame is not intended for carrying, since it is equipped with castors. If carrying cannot be avoided due to obstacles, this may only be done without the user. Make sure that all movable parts are tightened. Subsequently, at least two persons should stand next to the supine standing frame, hold on to the left and right of the base frame and carry it to the desired location. In order to transport the supine standing frame, reduce all adjustments to their most compact size (upper body support, leg supports, height to lowest setting etc.).



2. Product description.

2.3 Application areas, use according to the intended purpose

The **till.** supine standing frame is a medical product of risk class 1 for indoor areas and is used for standing training in the event of significantly impaired or non-existing ability to walk or stand.

2.3.1 Indications

The **till.** supine standing frame is designed for users with significantly pronounced impairment of standing and walking, especially due to:

- a complete or incomplete hemiplegia/hemiparesis, if applicable, with inclusion of the torso musculature due to a condition of the brain (e.g. stroke, brain tumour)
- a complete or incomplete paralysis of the arms and legs (tetraplegia/tetraparesis) and, if applicable, with inclusion of the torso musculature due to a condition of the brain (e.g. multiple sclerosis, brain injury), the spinal column (e.g. poliomyelitis, paraplegic syndrome with trauma or tumour) or the peripheral nervous system/muscular conditions (e.g. Guillan-Barré syndrome, muscle dystrophy)
- a complete/incomplete paralysis of the legs (paraplegia/paraparesis) and, if applicable, with inclusion of the torso musculature due to a spinal condition (e.g. paraplegic syndrome with traumatic/inflammatory/tumorous thoracic and lumbar lesion) or conditions of the peripheral nervous system/muscular conditions (e.g. polyneuropathia, muscular dystrophy)

The supine standing frame **till.** is used to assume a standing position to achieve positive effects of an upright body position and/or to prepare for walking training. The vertical position has a positive effect on the cardiovascular regulation, the bone metabolism, the peristalsis and urinary diversion. Standing training is used to prevent decubitus, a thrombosis or joint contractures, it promotes head control, arm function and spatial awareness. Spatial awareness is supported by possible change in location of the aid by careful rolling in supine position, if the clinical picture and the spatial conditions permit it.

2. Product description.

2.3.2 Contraindications

In general, a doctor or orthopaedist should determine if there is any contraindication. Any type of pain is to be considered a contraindication.

Strong contractures of the leg joint chain, extreme misalignment of the spine and above all severe foot deformities, which cannot be compensated with shoes, can present a contraindication for the standing treatment. The risk of secondary damage cannot be excluded. If necessary, standing training can still be carried out on the doctor's instructions with an appropriate orthotic fitting. The extent to which the correction of misalignments, contractures and deformities can be carried out must be clarified individually.

In addition, very spastic or very flaccid patients, especially those with a higher body weight, can be difficult to position in raising aids. It must also be clarified whether the user can be brought into a complete stretching position. For many users, initially only standing in a bent position is possible.



Never correct posture using force or strong pressure!

Depending on the disease symptoms and therapy, please clarify how long the user may stand in the upright trainer. The following symptoms may occur in some cases:

- Circulation problems
- Pain in the leg and back areas
- Epileptic spastic seizures
- Uncontrollable dystone tone fluctuations or stretching spasms



2. Product description.



2.4 Use not in accordance with the intended purpose / warning guidelines

- Make sure that the supine standing frame is used by one user only.
- Never leave the user lying/standing in the supine standing frame without supervision.
- The correct use of the supine standing frame requires precise and careful training of the accompanying person.
- The max. load (see **Point 6.1**) must not be exceeded.
- Do not use the supine standing frame with defective, worn or missing parts.
- For reasons of fire safety, the supine standing frame may not be placed close to an open fire or any other strong source of heat such as electric or gas heaters.
- Only use accessories and spare parts made by Schuchmann, otherwise you will endanger the user.
- Only use the supine standing frame if all components have been correctly mounted and adjusted.
- When adjusting the supine standing frame there is the risk of jamming or crushing limbs.
- Users who have difficulty reading must have someone read these Instructions for use aloud so that they understand how to use the supine standing frame.
- Pay attention to the instructions for use and warnings for the sub-frame with motor support (see **Point 4.13** onwards).

2.5 Equipment for basic model

- Height and angle adjustment (0–90°) using a gas pressure spring for size 1+2
- Height and angle adjustment (0–90°) via electrical motor for size 3+4 (incl. safety switch-off and manual operation)
- Can be positioned underneath patient lifter
- Upper body support adjustable in length incl. padded elements to adjust the upper body support length
- incl. chest and pelvis strap
- Adapter for leg supports (standard)
- Leg supports (standard), adjustable in length, with 5 cm level compensation
- Footrests (standard) that can be lowered down to the ground using the height adjustment of the central column
- Sub-frame with 5 5 (for size 1–3) or 6 (for size 4) brakable castors (75 mm) with total lock, one of which only with direction lock
- Frame colour: telegrey 4 (white grey), attachment parts: black
- incl. tool for all setting tasks (adjustment functions can be effected without tools)

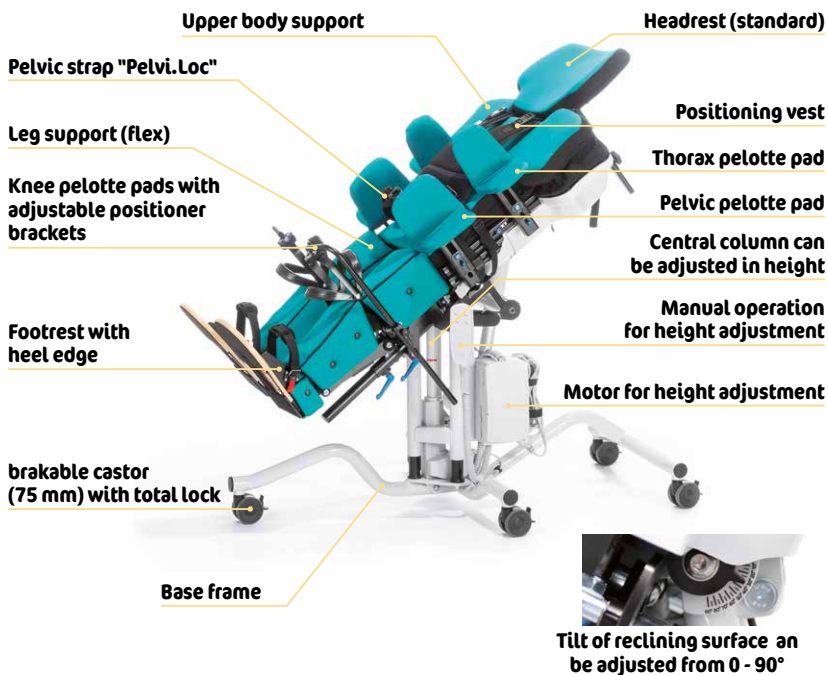
2. Product description.

2.6 List of accessories

- Headrest (standard / shell shape / lateral guide / with angle-adjustable lateral guide)
- Universal adapter for customised headrests
- Thorax pelotte pads / pelvis pelotte pads
- Knee pelotte pads (patella recess)
- Knee pelotte pads (with adjustable, padded positioner brackets)
- Pads for additional knee support
- Push bars (for size 1+2)
- Safety bolts (for release lever)
- Adapter for leg supports (abductable)
- Leg supports (flex)
- Footrests (flex)
- Foot guidance
- Simple foot strap
- Wooden therapy table with rim
- Table support pad
- Wide chest strap
- Positioning vest
- Adapter width extension for positioning vest
- Pelvic strap "Pelvi.Loc"
- Battery pack (Li-ion 2.25 Ah)

2.7 Product overview

The Fig. below is intended to show you the designation of the most important components as well as the terms which you will find in these Instructions

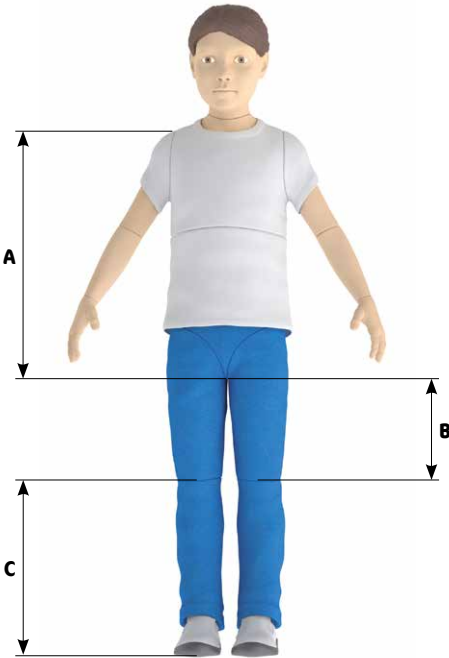


2. Product description.

2.8 General settings

The **till.** supine standing frame is delivered completely mounted and in the smallest possible adjustment, unless any pre-adjustments have be requested. Before the user is placed in the supine standing frame, a pre-adjustment must be carried out.

User dimensions



Presettings

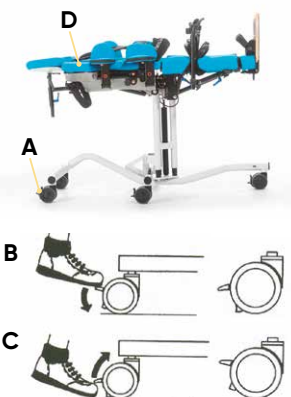
	Measure the user	Carry out adjustment on the supine standing frame	see
A	Upper body length (crotch to upper edge of shoulder)	Length of the upper body support	3.5
B	Knee to crotch**	set to max.	3.7
C	Sole to knee*	set to max.	3.7

* Final adjustments are made only with the user in place.

2. Product description.

2.9 Getting in and out

After all pre-settings have been made, please first lock all castors, except for the castor with direction lock (see **Point 2.10.1**), for getting in and out. To do this, press down the locking device (**A**) on each castor using the tip of your foot (**B**). To release the castors again, push the locking devices up again with the tip of your foot (**C**).



The brakes only work reliably on an even surface!

Now bring the reclining surface (**D**) to the horizontal position (see **Point 3.3 and 3.4**) and adjust the transfer height. When transferring from a wheelchair, choose a low height, a high one when doing a transfer from a carrying position. If available, fold the thorax and pelvis pelotte pads (see **Point 4.3**) to the side and also release the harness on one side (see **Point 3.8**).

Now you can move the user in the wheelchair / buggy etc. close to the supine standing frame and lock the wheelchair / buggy. Lift the user out of the wheelchair / buggy together with a second person or by using a lifter. Place him on the supine standing frame, close first the harness and then the thorax and pelvis pelotte pads (if available).



When adjusting the supine standing frame there is the risk of jamming or crushing limbs.

Now you can undertake the fine adjustments on the individual components. Please observe here the guidelines on the adjustment of the respective components (see **Point 3**).



Only have the user get in and out of the product on stable and flat ground.

2. Product description.

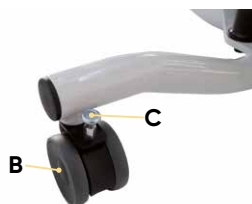
2.10 Transfer

till. can also be pushed carefully and slowly during use (e.g. to other rooms). Here we highly recommend transferring the user in the supine and lowest position (**A**).



2.10.1 Castor with direction lock

For easier movement, the sub-frame of any size is equipped with a castor (**B**) with direction lock (**C**). To release the lock of this castor, pull the direction lock (**C**) gently upwards and turn it a quarter turn to the left or right. Now the castor (**B**) can be moved freely. To lock the castor again, simply turn back the direction lock (**C**). As soon as the castor (**B**) is aligned straight, the direction lock will engage.



2.10.2 Measures before the transfer

The following measures must be carried out before the transfer:

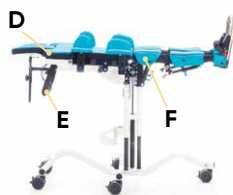
- all fine adjustments to the individual components must have been carried out (see **Point 3**).
- the user must have been secured against unintentional falling out of the frame (see **Point 3.8**).
- the supine and standing position must have been reduced to the smallest possible adjustment (see **Point 3**).

2.10.3 Holding and pushing points

The following holding and pushing points are provided on **till.** for transfer:

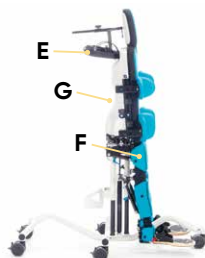
For size 1+2 in the supine position:

- Shoulder (**D**) or push bar (**E** – if available) and leg supports (**F**) at the same time



For size 1+2 in the standing position:

- Push bar (**E** – if available)
- Back (**G**) and leg supports (**F**) at the same time



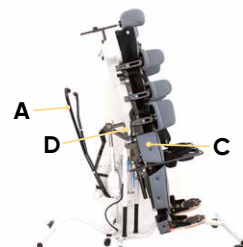
2. Product description.

For size 3+4 in the supine position:

- Push bar (A – if available)
- Shoulder (B) and leg supports (C) at the same time

For size 3+4 in the standing position:

- Push bar (A – if available)
- Back (D – not above the hip) and leg supports (C) at the same time



Make sure that always the two points mentioned are used when pushing in the standing position without push bar to guarantee safe transfer.

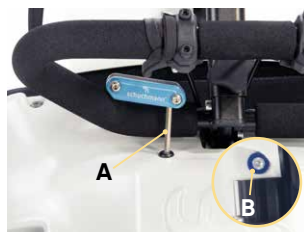


Make sure that when transferring size 3+4 in the standing position, the user must not be pushed above the hip at the back and that in general there is the risk of tripping over the sub-frame when pushing.

3. Settings.

Settings and adjustments to the product or accessories may only be made by people who have been given the necessary instructions by a medical product advisor. Please ensure that none of the user's extremities are in the respective area when making adjustments of any kind to minimise the risk of injury.

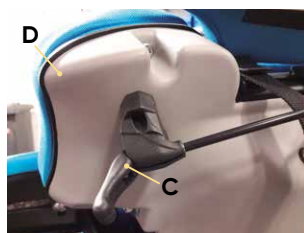
As standard, **till.** is equipped with a tool (A) for adjustment work, with the help of which all provided hexagon socket screws can be adjusted. The adjustable screws are marked with a blue washer (B).



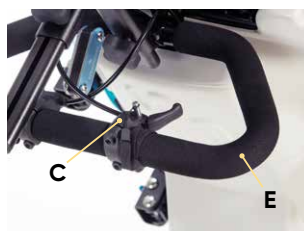
All adjustments (except for the upper body support length) can also be adjusted retrospectively. Make sure that during use all adjustments may be changed only in the supine position to exclude sliding down of the user!

3.1 Height adjustment (via gas pressure spring)

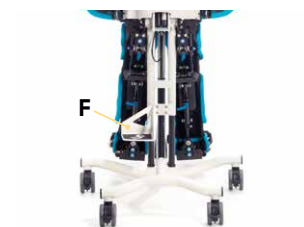
To adjust the reclining surface height for **sizes 1+2** operate the lever (C), which is fitted as standard on the frame body (D) or optionally on the push bar (E), in both cases on the left, and keep it pulled.



Now bring the reclining surface into the desired position upwards or downwards and release the lever (C) again.



For easy lowering of the reclining surface, place a foot onto the tread surface (F) and press the reclining surface downwards. In upright position, after successful footrest adjustment, the height adjustment can be lowered until the floor.

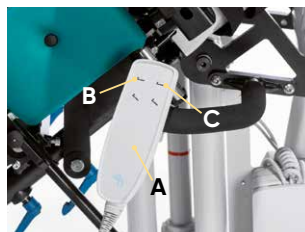


3. Settings.

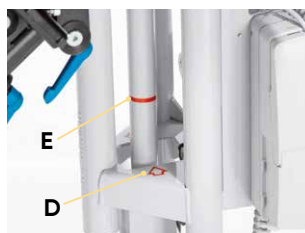
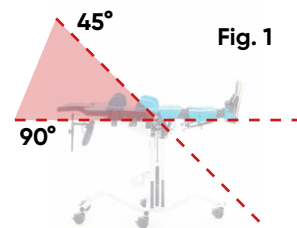
3.2 Height adjustment (via motor)

The adjustment of the reclining surface height **for sizes 3+4** (optionally also for size 1+2) can be done using an electrical motor. It has a safety switch off (see **Point 4.13.6**) and is controlled manually (**A**).

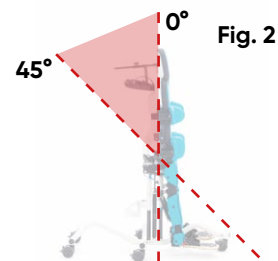
To lower the reclining surface, press button (**B**) and to raise press button (**C**). Release the respective button as soon as you have reached the desired height.



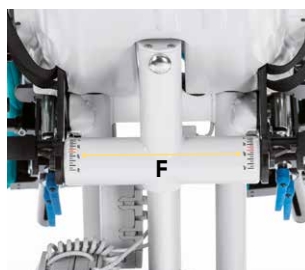
Sizes 3+4 of **till.** are equipped with an additional safety system for maximum stability in any situation. This safety system ensures that the reclining surface can only be raised to a predefined height, if the reclining surface is in the adjustment range of 45° – 90° (see **Fig. 1**). If during height adjustment the red arrow (**D**) reaches the red marking at the central column (**E**), the safety system automatically stops the height adjustment.



In order to carry out another height adjustment, the reclining surface must first be brought to an angle between 0° – 45° (see **Fig. 2** and **Point 3.4**). Then you can continue with the height adjustment to the maximum reachable height.



To determine the reclining surface angle there is a scale (**F**) on both sides at the adapter, with the help of which you can orientate yourself quickly and easily and read the angle.



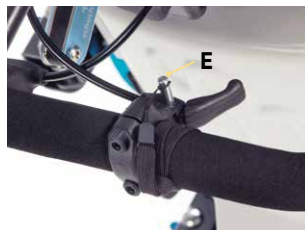
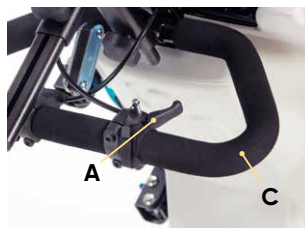
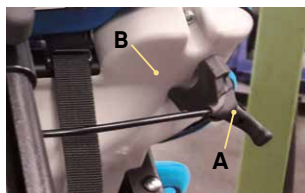
3. Settings.

3.3 Angle adjustment (via gas pressure spring)

In order to change the angle of the reclining surface **for sizes 1+2** (see **Point 3.4** for the **sizes 3+4**) please operate the lever **(A)**, which can be found by default on the body **(B)** or which is optionally mounted to the right of the push bar **(C)** and keep it pulled. Now bring the reclining surface into the desired angle and release the lever **(A)** again

To determine the reclining surface angle there is a scale **(D)** on both sides at the adapter, with the help of which you can orientate yourself quickly and easily and read the angle.

To secure the reclining surface against unintentional angle adjustment, we offer an additional safety bolt **(E)** (see **Point 4.11**).



3. Settings.

3.4 Angle adjustment (via motor)

The angle adjustment of the reclining surface **for sizes 3+4** is done using an electrical motor (see **Point 3.3** for **sizes 1+2**). It has a safety switch-off (see **Point 4.13.4**) and is controlled manually (**A** – see **Point 4.13.5**).

The reclining surface can be adjusted in a range from 0° to 90° (see **Fig. 1**). In order to change the reclining surface angle, press buttons **B** and **C**. Using button **B** move the reclining surface into the horizontal and with button **C** into the vertical. Release the respective button as soon as you have reached the desired angle.

Keep in mind that sizes 3+4 of **till.** are equipped with an additional safety system for maximum stability in any situation. This safety system ensures that the reclining surface can only be adjusted from 45° to 90° if a pre-defined height has not been exceeded (see **Point 3.2**).

To determine the reclining surface angle there is a scale (**D**) on both sides at the adapter, with the help of which you can orientate yourself quickly and easily and read the angle.

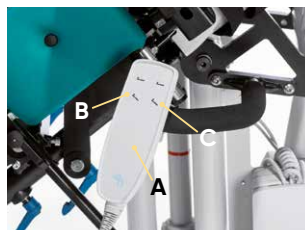
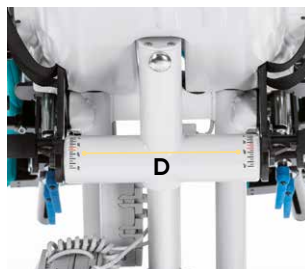
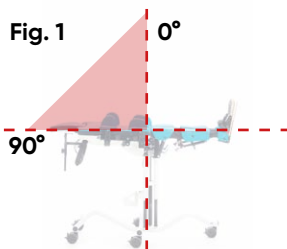


Fig. 1



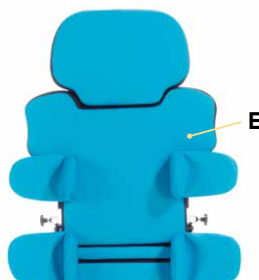
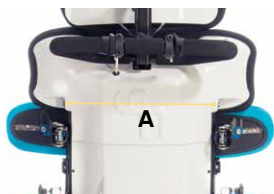
3. Settings.

3.5 Upper body support

till. is available in size 1+2 with a standard upper body support. In addition to this version, there is also a contourable upper body support (see **Point 4.4**) for size 3+4. Both variants can be adjusted in length.

Before any adjustment to the length, remove the padded elements (see **Point 3.5.1 + 3.5.2**) and bring the reclining surface (without user) into the horizontal (see **Point 3.4**). Afterwards loosen the hexagon socket screws **(A)** for size 1+2. For size 3+4 you must loosen the hexagon socket screws **(B)** in the lateral profiles.

Once you have loosened the respective screws, pull out the body **(C)** for an extension or push it in for a reduction. To do this, get a good hold of it or use for sizes 1+2 the push bar **(D)** and support, if needed, the adjustment by taking along the upper body support pad **(E)**.



The body support is a type B application part.



Bring the reclining surface first into a horizontal position before carrying out any length adjustment!



The length adjustment of the upper body support may only be carried out without a user!

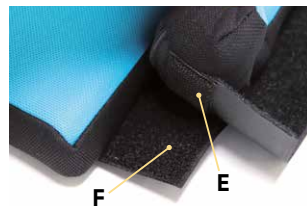
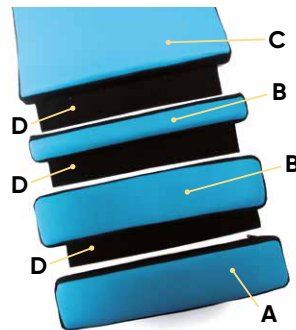
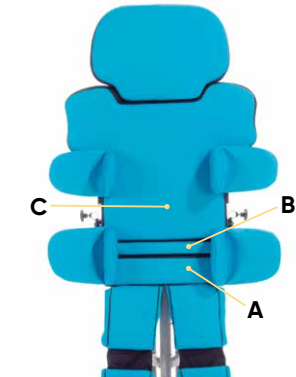
3. Settings.

3.5.1 Pad elements (for easy upper body support)

The reclining surface growth is compensated by adding/removing pad elements (**A = end piece + B = intermediate piece**), which are fixed by means of hook and loop closure. Remove the pad elements (**A+B**) prior to every adjustment to the upper body support length (see **Point 3.5**) and reattach the required combination of pads.

The upper body support pad (**C**) and the intermediate pieces (**B**) all have a loop tape surface (**D**) at the lower edge to accommodate an additional pad. The intermediate pieces (**B**) as well as the end piece (**A**) all have a hook tape (**E**) on the back and can thus be randomly attached to the individual loop surface (**F**) of another pad.

To remove a pad, simply pull it off the one one positioned above it. Pad elements that are not required, can be stored under the upper body support pad (**C**) in the back area.



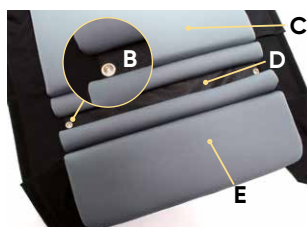
3. Settings.

3.5.2 Pad elements (for contourable upper body support)

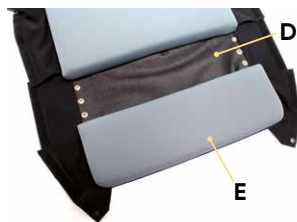
The reclining surface growth is compensated by adding/removing pad elements (**A = intermediate piece**), which are fixed by means of hook and loop press studs (**B**). Remove the pad elements (**A**) prior to every adjustment to the upper body support (see **Point 3.5**) and reattach the required combination of pads.



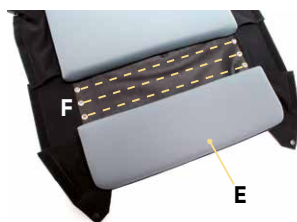
At the lower edge of the upper body support pad (**C**) there is a connection piece (**D**). To this, up to three intermediate pieces (**A**) as well as one end piece (**E**) can be affixed using press studs (**B**).



Depending on how the upper body support length is adjusted, the intermediate pieces (**A**) must be removed or added and the end piece (**D**) might have to be moved upwards by 1–3 positions (**F**).



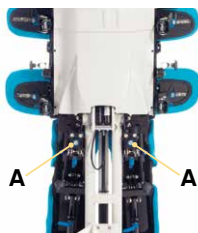
To remove a pad, loosen the press studs on both sides of each pad (**B**). Please store pad elements that are not required in a dry place.



3. Settings.

3.6 Adapters for leg supports

For **till.** there are two different adapters for the leg supports (standard + abductable). Using the hexagon socket screws (**A**) on the rear side of **till.**, the level can be adjusted from 0–5 cm for both variants. For the abductable variant the angle can also be adjusted (see **Point 4.5**).



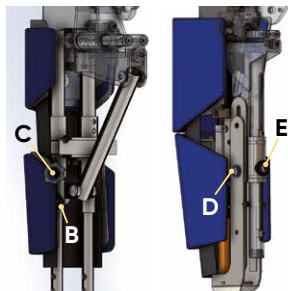
3.7 Leg length

till. is available with two leg supports (standard + flex). Both variants can be adjusted in length. Compared to the standard version, the flexible leg (flex) can also be adjusted in its angle (see **point 4.6**).

3.7.1 Leg supports (standard)

For size 1+2 undo the screw (**B**) to adjust the overall length of the leg support. For optimal positioning of the knee, release the twist grip (**C**) and bring the leg support into the desired position.

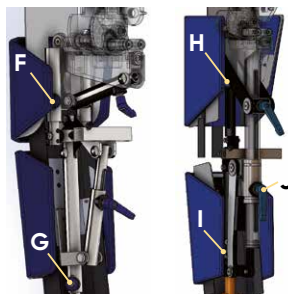
For size 3+4 undo the screws (**D+E**) to adjust the overall length of the leg support. For an optimal positioning of the knee, bring the leg support into the desired position.



3.7.2 Leg supports (flex)

For size 1+2 undo the screws (**F+G**) to adjust the overall length of the leg support. For an optimal positioning of the knee, bring the leg support into the desired position.

For size 3+4 undo the screws (**H+I**) and the clamping lever (**J**) to adjust the overall length of the leg support. For an optimal positioning of the knee, bring the leg support into the desired position.



Tighten all screws again after each adjustment!



Clamping levers must not be pressed for actuation for sizes 3+4!

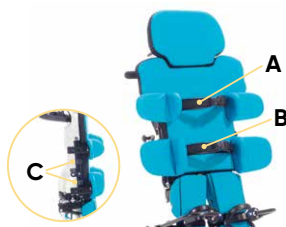


3. Settings.

3.8. Harness

To position the user in the **till**, the basic model already has a chest strap (A) and a pelvic strap (B). Optionally there are also a positioning vest (see **Point 4.12.1**), a wide chest strap (see **Point 4.12.2**) and a Pelvi.Loc pelvic strap (see **Point 4.12.3**).

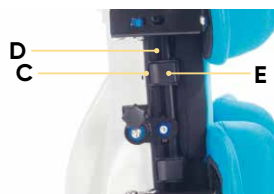
The chest strap and the pelvic strap can be adjusted in height and width. To adjust the height, open the catch fastener on the harness adapter (C), pull out the strap and loosen the respective exposed hexagon socket screw of the harness adapter (C). Now you can push the adapter (C) in the profile track to the desired position.



Tighten all screws again after each adjustment!

3.8.1 Chest strap

The chest strap is attached in the upper area of the lateral profiles (D) at the harness adapters (C). The straps of the chest harness are guided through the strap guide on the catch fasteners (E) of the harness adapters. The width adjustment is regulated by means of this. Subsequently the catch fasteners are pressed down for fixation. The chest strap can be opened or closed using the plug lock (F).



3.8.2 Pelvic strap

The chest strap is attached in the lower area of the lateral profiles (D) on the harness adapters (C). The straps of the pelvic harness are guided through the strap guide on the catch fasteners (E) of the harness adapters. The width adjustment is regulated by means of this. Subsequently the catch fasteners are pressed down for fixation. The pelvic harness can be opened or closed using the plug lock (F).



Tighten all screws again after each adjustment!



In order to avoid special hazards such as possible strangulation or other injuries, pay attention to correct positioning of the harness!

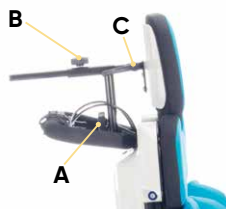
4. Accessories.

4.1 Headrests

There are four different headrests available for **till.**:

- Standard
- Shell form
- Lateral guide
- with angle-adjustable lateral guide (see **Point 4.1.1**)

All headrests can be adjusted in height, depth and angle.



Height adjustment

To adjust the height, loosen the twist grip (**A**) and bring the headrest into the desired position.

Depth adjustment

Loosen the twist grip (**B**) to adjust the depth and bring the headrest into the desired position.

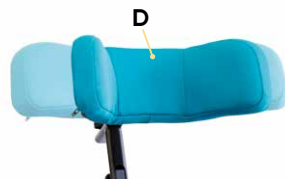
Adjustment of the angle

Release the clamping lever (**C**) to adjust the angle and bring the headrest into the desired position.

4.1.1 Headrest with angle-adjustable lateral guide

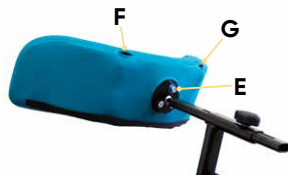
The headrest with angle-adjustable lateral guide (**D**) can be adjusted in height, depth and angle (see **Point 4.1**).

In addition, it can also be inclined and the angle of the lateral guide can be adjusted individually.



Angle adjustment

To adjust the inclination, loosen the hexagon socket screw (**E**) and bring the headrest into the required position.



Setting the lateral guides

To adjust the lateral guide, loosen the hexagon socket screw (**F+G**) and bring the respective lateral guide into the desired position.



Tighten the twist grip / clamping lever again after each adjustment!



Support the head of the user with one hand when you make an adjustment to the headrest during use!



4. Accessories.

4.2 Universal adapter for customised headrests

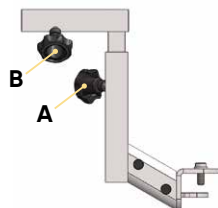
For headrests that are not from our range of products, we offer a headrest adapter (15x15mm – square). It permits height and depth adjustment.

Height adjustment

To adjust the height, loosen the twist grip **(A)** and bring the headrest into the desired position.

Depth adjustment

Loosen the twist grip **(B)** to adjust the depth and bring the headrest into the desired position.



Tighten the twist grip / clamping lever again after each adjustment!

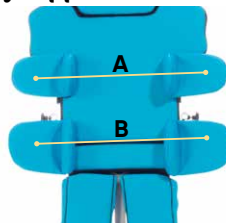


Support the head of the user with one hand when you make an adjustment to the headrest during use!

4. Accessories.

4.3 Thorax and pelvis pelotte pads for upper body support

Thorax pelotte pads (A) have an upper arm support and pelvis pelotte pads (B) have a forearm support. They are available each in two different versions.



Thorax and pelvis pelotte pads for upper body support (standard)

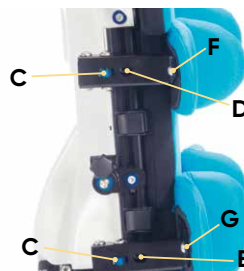
The thorax (A) and pelvis pelotte pads (B) for upper body support (standard) can be adjusted individually in height, width and angle and can be folded to the side.

Thorax and pelvis pelotte pads for upper body support (contourable)

The thorax (A) and the pelvis support pads (B) for the contourable upper body support can be adjusted individually in height, width and angle, can be folded away to the side and can also be adjusted in depth.

Folding away the thorax and pelvis pelotte pads

It is recommended to at least fold away the pelotte pads on the sides before transferring the users. To fold away the individual pelotte pads, operate the release lever (C) and fold down the pelotte pads. After successful transfer fold up again the pelotte pads.



When folding up the release lever must engage audibly.

Height adjustment

To adjust the height, loosen the hexagon socket screw (D) on the thorax pelotte pad (E) and on the pelvis pelotte pad and bring the respective pelotte pad in the profile track into the desired position.

Adjusting the width and the angle

To adjust the width of **till**, in sizes 1+2, loosen the hexagon socket screw (F) on the thorax pelotte or (G) on the pelvis pelotte and bring the respective pelotte pad into the desired position. A minimal additional height adjustment can also be done here.

For sizes 3+4, to adjust the width and angle two hexagon socket screws each must be loosened.



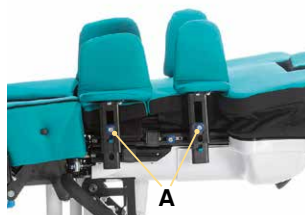
For each adjustment ensure that all limbs are outside the adjustment range. Risk of entrapment!



4. Accessories.

Depth adjustment

For the pelotte pads that can be adjusted in depth (for the contourable upper body support), it is also necessary to adjust the depth. To set the depth, loosen the hexagon socket screw (A) on the respective pelotte pad and bring the respective pelotte pad into the desired position.



Tighten the hexagon socket screws again after each adjustment!

4.4 Contourable upper body support

The contourable upper body support for **till.** in sizes 3+4 is equipped with a spring mechanism. It is divided into three areas (shoulder, thorax and hip). For each area there is a corresponding locking lever with the help of which adjustments specific to the user's body can be fixed.



The following levers must be used for the following areas:

- Lever **B** = hip
- Lever **C** = thorax
- Lever **D** = shoulder



Before the user is positioned on the supine standing frame, please loosen the three locking levers (**B**, **C** and **D**), by moving the levers upwards. This makes the upper body support flexible. Once the user has assumed his position on the supine standing frame, close the locking levers again. The contouring of the upper body support defined by the user is thus fixed. If needed, the upper body support can be changed at specific points to release pressure from particular body regions or to apply pressure. To do this, release the locking lever for the respective area and, while the user is in position, press the pads into the desired position and lift the respective body area. Afterwards close again the locking lever.



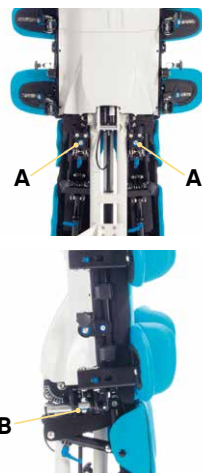
Ensure for each adjustment that all limbs are outside the adjustment areas / locking levers. Risk of entrapment!

4. Accessories.

4.5 Adapter for leg supports (abductable)

Using the hexagon socket screws **(A)** on the rear side of **till.**, the level can be adjusted from 0–5 cm.

Additionally, using the the hexagon socket screw **(B)** the angle on each leg can be individually steplessly adjusted between 0° and 30°.



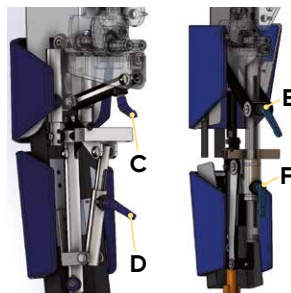
After each adjustment, tighten again all screw connections and clamping levers!

4.6 Leg supports (flex)

The length and the angle of the leg supports (flex) can be adjusted (see **Point 3.7.1**).

To adjust the angle, put the knee pelotte up-right, align it according to the patella and press it down until achieving a knee flexion that is adequate to and still tolerable by the patient.

Now hold the leg support at the foot and loosen both angle adjustment tubes via the screws **(C+D)** – for sizes 1+2) or the clamping levers **(E+F)** – for sizes 3+4). The clamping levers for sizes 3+4 must be pressed for activation. Subsequently, lift the flexible leg support on the knee pelotte pad until contact is established between the back of the knee and the upper edge of the lower leg pad. Subsequently, fix the angle adjustment tubes again using the screws **(C+D)** or the clamping levers **(E+F)** and adjust again the knee pelotte pad. When using the abductable adapter of the leg supports, you can now bring the abduction angle into the desired dimension (see **Point 4.5**).



After each adjustment, tighten again all screw connections and clamping levers!



Clamping levers must not be pressed for actuation for sizes 3+4!



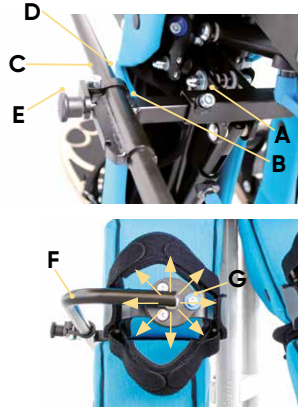
4. Accessories.

4.7 Knee pelotte pads

The knee pelottes are available in two different versions (with patella recess – see **point 4.7.1**) and flexible knee positioners (FKP) with positioning straps that can be adjusted in length – see **point 4.7.2**). These can be adjusted in width, depth and angle. Moreover, the height of the knee pelotte pads can be adjusted via the leg length adjustment (see **Point 3.7**).

To adjust the width, loosen the cylinder head screw (**A**) and bring the knee pelotte adapter (**B**) into the desired position.

To adjust the depth and the pre-setting of the angle, please loosen the hexagon socket screw (**C**) of the positioning aid (**D**) and bring the knee pelotte pad into the desired position. After having tightened again the hexagon socket screw (**C**), the positioning aid is used as "memory function" of the set adjustment. Using the snap lock (**E**) the knee pelotte rod (**F**) including the knee pelotte pad easily be removed and installed. During installation, the positioning aid "automatically" finds the set adjustments. Here it must be ensured that the positioning aid firmly engages in the knee pelotte pad adapter. To fix the snap lock it is turned after engagement. During removal, the snap lock is correspondingly first unscrewed and then pulled upwards.



The swivel ball joint permits three-dimensional adjustment of the knee pelotte pad angle. To do this loosen the hexagon socket screw (**G**) and bring the knee pelotte pad into the desired position. A combination of the knee pelotte pad rods and the swivel ball joint adjustment permits additional fine adjustment of the height.



After each adjustment, please retighten all screw connections!

4.7.1 Knee pelottes with patella recess

The lateral guides (**H**) of the knee pelotte with patella recess (**I**) can easily be bent inwards or outwards by hand to provide the knee with more space or lateral guidance.

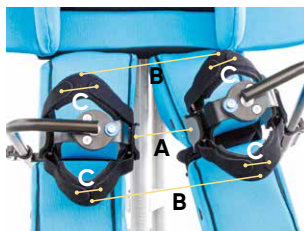


4. Accessories.

4.7.2 Flexible knee positioner (FKP)

The flexible knee positioners (A) have positioning straps (B) that uniformly distribute the pressure on the knee and thus prevent the occurrence of individual pressure marks.

For optimal positioning of the knees, the positioning straps (B) can be adjusted independently of each other. Like this the position of the respective knee can be changed within the flexible knee positioner (A). To this end, loosen the straps (C) on the positioning straps (B), bring the knee by lengthening or shortening the straps (C) into the desired position and close them again afterwards.



After each adjustment close the positioning straps again!

4.7.3 Pads for knee pelotte pads

This pad (D) which can be fixed around the respective leg of **till**, is used for additional support of the knee and to prevent excessive hyperextension of the knee (genu recurvatum).

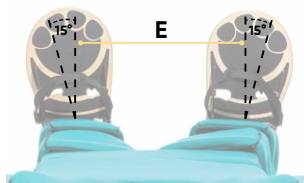


4.8 Footrests

The footrests are available as "standard" version (see **Point 4.8.1**) and "flex" version (see **Point 4.8.2**).

4.8.1 Footrests (standard)

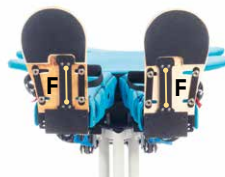
The footrests (standard) provide the feet with 15° range outwards (E). For inward rotation the individual plates of the footrests can be exchanged. To do this, loosen the screws (F) below the plates, exchange them and tighten the screws (F) again.



If the foot plates have been exchanged, a collision with the sub-frame is possible, or the maximum tilt and minimum standing height can no longer be reached.



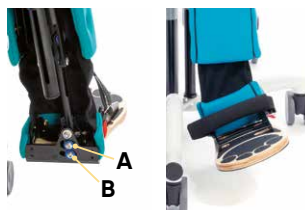
After each adjustment, please retighten all screw connections!



4. Accessories.

4.8.2 Footrests (flex)

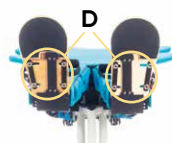
The footrests (flex), like the foot rests (standard) offer a rotation range of $\pm 15^\circ$ (see **Point 4.8.1**). Furthermore they can be adjusted to a Pes equinus (0° – 20°) or Pes suppinatus (0° – 15°). To do this, turn the hexagon socket screws **(A)** anti-clockwise to bring the footrests into the Pes equinus position. Turn the screws **(A)** in clockwise direction to bring the footrests in Pes suppinatus position. To adjust the footrests (flex) to a Pes valgus, operate the hexagon socket screws **(B)** and position the footrests as desired.



4.8.3 Foot guide incl. foot straps

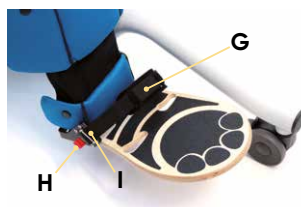
The foot guides **(C)** are mounted on the foot plate. They can be adjusted in width and angle. To adjust the width or the angle, loosen the four hexagon socket screws **(D)** below the foot plate and bring the foot guides **(C)** into the desired position.

The foot straps **(E)** can only be used in connection with the foot guides **(C)**. To adjust the foot straps **(E)**, loosen the magnetic closure **(F)** and bring the foot strap to the desired length. To close the closure, guide the closure across the anchoring so that the magnetic closure **(F)** engages again.



4.8.4 Simple foot strap

Both the standard and the flexible footrest can be delivered with a simple foot strap **(G)** that is equipped with a magnetic closure **(H)**. By pulling on the red loop **(I)** attached to the loop, you can open the foot strap and bring the foot strap to the desired length. To close the closure, simply guide it again across the anchoring so that the magnetic closure **(H)** engages again on its own.



After each adjustment, please retighten all screw connections!

4. Accessories.

4.9 Therapy table

The therapy table is available as version "standard" (see **point 4.9.1**) and as version with "quick closure" (see **point 4.9.2**). For both versions there is a table support pad (see **point 4.9.3**).

4.9.1 Wooden therapy table (standard)

The wooden therapy table (**A**) has an edge and attached in the front and removed, adjusted in depth, height and angle.

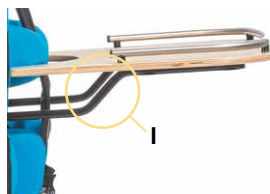
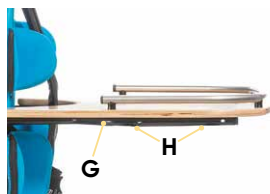
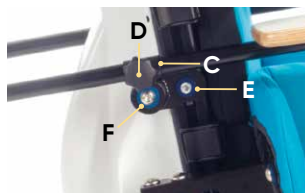
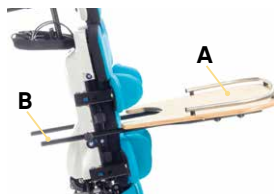
To mount the table, the table rods (**B**) must be inserted in the table adapters (**C**) on the frame of **till.** and fixed with the twist grips (**D**).

To adjust the depth, loosen the twist grips (**D**) on both sides and bring the wooden therapy table (**A**) into the desired position.

To adjust the height, please loosen the hexagon socket screw (**E**) on both sides and bring the wooden therapy table (**A**) to the desired height.

To adjust the angle, please loosen the hexagon socket screw (**F**) on both sides and bring it into the desired position.

An additional height adjustment can be carried out using the table rods (**G**). To do this, loosen and remove the 4 hexagon socket screws (**H**). Now loosen the twist grips (**D**) and rotate the tubes (**G**) by 90° upwards (**I**). Now insert the hexagon socket screws (**H**) again from below into the bores rotated by 90° and tighten them.



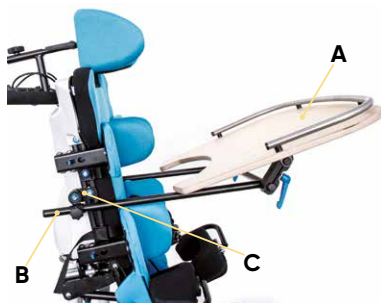
After each adjustment, please retighten all screw connections!

4. Accessories.

4.9.2 Wooden therapy table (with quick adjustment)

The wooden therapy table (A) has an edge and attached in the front and removed, adjusted in depth, height and angle. On the one hand, you can do this in the basic settings using table rods (B) and the table mounts (C) on the frame of **till**. (see **Point 4.9**).

On the other hand, the quick adjustment of the wooden therapy table (A) permits an additional depth, height and angle adjustment. This is done by loosening the two clamping levers (D). Now bring the wooden therapy table (A) into the desired position and pull the clamping levers (D) tight again.



4.9.3 Table support pad

Optionally, a 1 cm high table support pad (E) is available which is covered with a black flexible fabric and is positioned within the table edging (F).



After each adjustment, please retighten all screw connections!

4. Accessories.

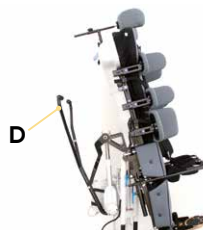
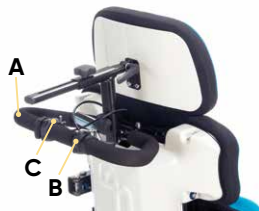
4.10 Push bar

For **sizes 1 + 2** a permanently mounted push bar (**A**) is optionally available. It is located on the headrest adapter (or on an adapter if no headrests is mounted).

On this push bar there is a lever to adjust the angle (**B** - see **Point 3.3**) and , if needed, another lever to adjust the height (**C** - see **Point 3.1**).

For **sizes 3 + 4** a permanently mounted push bar (**D**) is also optionally available. It is designed in such a way that it automatically moves when the angle of the reclining surface is adjusted (see **Point 3.4**) and can therefore be used in any angle setting.

Using the push bars, you can push **till**. in all directions and support the height and angle adjustments.



If the product is to be moved together with the patient, this should be done at the lowest height and in supine position.

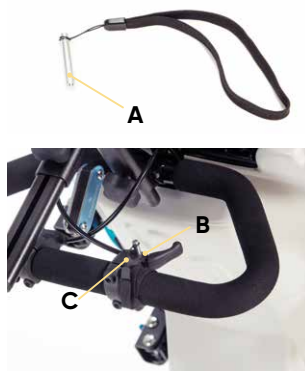


If a push bar is mounted the product must only be moved using it.

4. Accessories.

4.11 Safety bolt

Using the safety bolt (A), the reclining surface is secured against unintentional angle adjustment (only when adjusting the angle by means of gas pressure spring – see **Point 3.3**). Insert the safety bolt (G) into the dedicated hole (B) on the release lever (C) after having brought the reclining surface into the desired position (see **Point 3.3**). Remove the safety bolt (A) again when you want to change the angle adjustment.



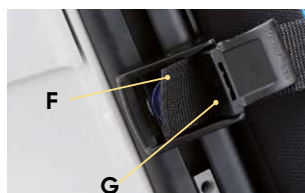
4.12 Harness

To position the user in **till.**, there is also an optional wide chest strap, a positioning vest and the "Pelvi.Loc" pelvic strap in addition to the chest and pelvis straps in the basic version (see **Point 3.8**).

In general, the harness adapters (D), fixed on the profile of the body, can be positioned individually. To this end, please undo the respective hexagon socket screw (E). The harness adapter (D) can now be pushed into the profile track to the desired position. Subsequently tighten the screw (E) again.



Guide the end of the belt strap (F) through the upper slot (G) of the harness adapter (D). Now you can pull the belt strap (F) through the bottom slot (H).



Now close the click buckle (I) to secure the belt strap.

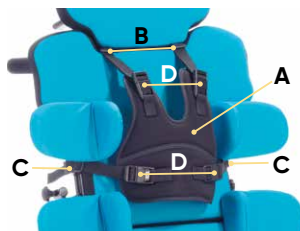


To avoid unintentional opening of the straps, the belt strap must be pulled through both slots of the harness adapter.

4. Accessories.

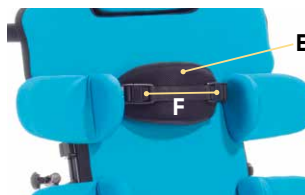
4.12.1 Positioning vest

The positioning vest (A) is attached in the upper area (B) and in the lateral area (C) on the harness adapters. The straps of the positioning vest (A) are threaded through the lateral belt guide on the click buckles. Afterwards, the click buckles are pressed down for positioning. The positioning vest is equipped with four plug locks (D) for opening or closing.



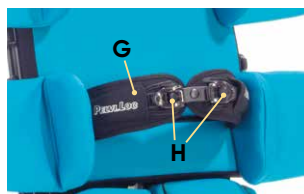
4.12.2 Wide chest strap

The wide chest strap (E) is attached in the upper lateral area on the harness adapters. The straps of the chest harness are threaded through the lateral strap guide on the click buckles. Afterwards, the click buckles are pressed down for positioning. The chest harness can be opened or closed using the plug locks (F).



4.12.3 Chest strap from "Pelvi.Loc"

The "Pelvi.loc" chest strap (G) is attached in the lower lateral area on the harness adapters. The straps of the pelvic harness are threaded through the strap guide on the click buckles. Afterwards, the click buckles are pressed down for positioning. The width of the pelvic strap can be adjusted via the closure system. To this end, press one or both safety buckles (H) and bring the strap to the desired width.



4. Accessories.

4.13 Sub-frame with motor support

The sub-frame of **till.** can be optionally equipped with a motor for height adjustment for sizes 1+2. It is installed by default for sizes 3+4, as is the motor for the tilt. In the standard version the motors are operated via a mains cable. Optionally **till.** is also available with an additional battery pack. The motorised height adjustment for sizes 1+2 and the height and tilt adjustment operated in the same manner for sizes 3+4 are controlled with a manual controller (**A**).



4.13.1 Instructions for use and safety

- Persons who do not possess the required experience or sufficient knowledge of the motor components, must not use them.
- Physically and mentally disabled persons may not use the motor components unless they are supervised or have received thorough instructions for use from a person responsible for their safety.
- Children must be supervised to ensure that they do not play with the motor components.
- Anyone connecting, installing or using the system must have access to these instructions for use.
- The motor components must not be used in the presence of flammable, anaesthetic mixtures with air, oxygen or nitrogen oxides.
- Do not use any chemicals and carry out an annual inspection for damage and wear.
- Do not expose the components of the LINAK drive system to UV radiation disinfection lamps. This can lead to damage to the housing, carrier parts and cables.
- If you detect any faults, the product must be replaced.
- In order to avoid unintentional movements, prevent that the manual controller is activated inadvertently, for example during normal use or maintenance.
- The duty cycle printed on the label of the drive system must always be observed. If it is exceeded there is the risk of damage to the drive system. Unless indicated otherwise on the label, the duty cycle is maximum 2 minutes continuous operation followed by an 18-minute break.
- The systems must not be exposed directly to the jet of a high-pressure cleaner.

4. Accessories.



- Connection cables must remain plugged in during cleaning to prevent any water ingress.
- Cleaning with a steam cleaner is not permitted.
- No modifications may be carried out to any electrical components. In the event of repairs, please contact the specialist dealer (see **Point 8.5**).
- If the product is visibly damaged, it must not be taken into operation.
- If the drive system causes unusual noises or odours, please interrupt the power supply immediately.
- The products may only be used in an environment that corresponds to its protection type.
- No highly alkaline or acidic cleaning or disinfecting agents may be used (only pH value 6-8).
- Independent of the weight, the duty cycle stated in the data sheet must not be exceeded.
- The control unit must only be connected to voltage as stated on the label.
- Fixing screws and bolts must be tightened properly.
- The specifications on the label must under no circumstances be exceeded.
- Unauthorised persons must not open the device.
- Use the drive only within the specified load range.
- If there are any irregularities, the actuator must be replaced.
- If the system/devices are not in operation:
 - Interrupt the power supply and pull the mains plug to avoid unintentional operation.
- Check for malfunctions, mechanical damage, wear and tears. Worn parts must be replaced.
- Due to electrostatic discharge, there can be a brief functional interruption in rare cases. The electrical drive would stop during operation due to safety reasons. Repeated pressing of the control unit will directly continue the desired adjustment.



4. Accessories.



4.13.2 During operation

- Pay attention to unusual noises and uneven functioning. Stop the actuator/the lifting column immediately should you detect anything unusual.
- Should the control unit cause unusual noises or odours during operation, interrupt the power supply as well as the external battery pack (if available).
- Ensure that the cables are not damaged.
- Pull the mains plug before moving the product.
- Ensure that the mains plug is always freely accessible.
- Ensure not to kick against the drive with your feet.



See Point 5.6 for fault elimination and troubleshooting or contact your specialist dealer (see Point 8.5).

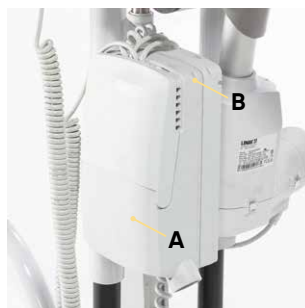
4.13.3 Motor unit

The motors installed for height and tilt adjustment are compact, quiet and powerful drives that are controlled via a manual controller (see **Point 4.13.5**).

4.13.4 Control unit

The control unit (**A**) evaluates all signals and controls, under consideration of the set parameters, the motor so that it develops the corresponding power.

The control unit (**A**) is equipped with a green LED (**B**) that lights up when the control unit is connected to the power supply. If the control unit is operated via the battery pack (see **Point 4.13.7**), the LED is off. The buzzer installed in the control unit emits an acoustic signal (beep signal) if a button is pressed on the manual controller and if the battery pack capacity is low or if there is an error in the software.



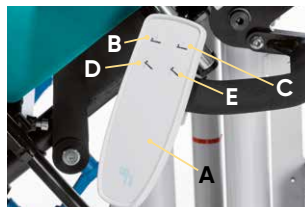
In the event that the motors do not extend and retract as desired, the motors must be retracted completely to re-identify the position using the software. To this end, press the two buttons C + D of the manual operating element until both motors have retracted completely. If the problem cannot be eliminated in this manner, kindly contact your specialist dealer (see Point 8.5).



4. Accessories.

4.13.5 Manual operation

The manual operation element (**A**) is connected to the control unit via a cable. The height is adjusted using buttons **B** + **C**. Using buttons **D** + **E** the tilt of the reclining surface can also be adjusted for sizes 3+4.



4.13.6 Safety switch-off

The height and tilt adjustment supported by a motor (see **Points 3.2 + 3.4**) is equipped with a safety switch-off (**F**) that prevents "lifting" of the sub-frame. If the footrests are in contact with the ground, the downward or upward movement is stopped or blocked. The height and tilt adjustment rises automatically 10 mm or swivels 10 mm back to ensure the stability of **till.** In any case, **till.** can always be raised to re-establish the stability.



Despite the safety switch-off, permanent presence of an accompanying person is required when adjusting the motors !

4.13.7 Battery pack for motor support

Alternatively to the mains-powered power supply, the motors can also be operated with a lithium-ion battery pack (**G**). This battery pack has a low weight and a high degree of power and safety. The battery pack is charged automatically via the control element if it is connected via the mains cable. The integrated LED (**H**) lights up in yellow during the charging process. The LED goes off when the battery pack is charged completely. The buzzer installed in the control unit warns with an acoustic signal (beep signal), if a button is pressed on the manual controller and if the battery pack should be low. If the LED light flashes, there has been a fault during the charging process. In this case, kindly contact your specialist dealer (see **Point 8.5**).



Safety instructions:

- Do not open the battery pack housing, since the cells or circuits probably develop excessive heat.



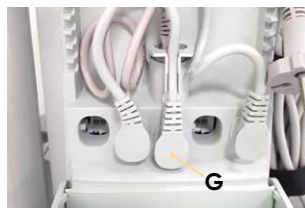
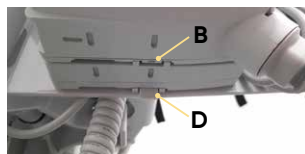
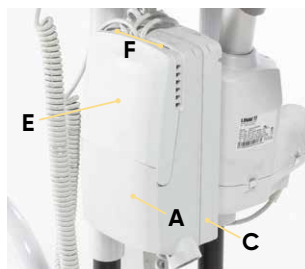
4. Accessories.



- Defective or damaged lithium-ion battery packs are not permitted for transport.
- The duty cycle printed on the label of the battery pack must always be adhered to. If it is exceeded there is the risk of damage to the drive system. Unless stated otherwise on the label, the duty cycle for mains operation is maximum 1 minute continuous use followed by 19 minutes break.
- For safety reasons please pay attention to the stated charging and operating temperature (see **Point 6.2**).
- If the battery pack is too hot, disconnect it and leave the room. Wait 2 hours before taking further steps.
- The battery pack must be charged every 6 months.
- The disposal of the battery pack is carried out in compliance with the local regulations.
- When the system/devices are not in use:
 - The battery pack always provides power. Please avoid unintentional operation.

Recommendations:

- Do not exceed the storage temperature since it shortens the service life and power of the product.
- The battery pack should be at room temperature before use.
- Lithium-ion battery packs are not intended for use in outdoor areas and swimming pools.
- When the battery pack is completely discharge, charge it before storage.
- To remove the control unit (A) press the release pin (B) backwards and at the same time pull the control unit (A) upwards. To remove the battery pack (C) press the release pin (D) backwards and at the same time pull the battery pack (C) upwards.
- For the case that the system/the device is not used for a longer period of time, we recommend disconnecting the battery pack from the control unit. To do this, open the flap (E) at the control unit (A) by pressing both release pins (F) from the top. To separated the power supply, pull the plug (G) and then close the flap (E).



5. Cleaning and maintaining.



Prohibited:

- Heating or burning the battery packs.
- Short-circuiting the battery pack.
- Do not expose the battery packs to strong load or impacts.
- Break or damage the battery packs.
- Use battery packs that show signs of damage or corrosion.
- Charging or storage of the battery packs near flammable material.
- Expose the battery pack to water or other liquids.
- Overcharge the battery pack or completely discharge them.

Maintaining batteries/battery packs

Prior to first use of LINAK battery packs, you should ensure that they are charged for at least 24 hours and longer to achieve proper functioning and extend the service life of the battery pack.



Please observe the following provisions on maintenance, replacement and disposal to ensure safe and reliable operation.



The battery packs must be replaced after 4 years at the latest. Maybe even earlier, depending on the usage structure. Frequent and strong discharge reduce the battery pack service life. For an optimal service life, the product must be connected to the mains power as often as possible. It is recommended to charge the battery packs at least every 6 months. Otherwise the battery packs have a lower capacity due to self-discharge. It is recommended to test the battery pack function at least once a year.



5. Cleaning and maintaining.

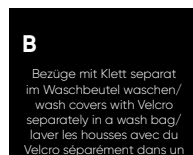
5.1 Cleaning and disinfecting

5.1.1 Cleaning

Please clean all frame elements regularly with a sponge or damp cloth; making sure that water droplets are removed. Please clean with a mild household detergent for severer dirt. Thorough drying of the cleaned areas is important.

All fabrics that cannot be removed can be wiped with a moist cloth. For all removable fabrics please pay attention to the sewn-in care labels (such as **A + B**) on the respective element.

Please also pay attention to our general cleaning and hygiene advice. This can be found at www.schuchmann.de/mediathek.



5.1.2 Disinfection

Various products can be used for surface disinfection of metal and plastic parts.

Liquid disinfectants are available as ready-to-use solutions that are sprayed on and evenly applied with a soft cloth. Alternatively, wipes pre-soaked with disinfectant can be used to wipe the products over the entire surface. In both cases, care must be taken to ensure complete wetting. Disinfection in fully automatic disinfection systems is also possible and recommended. The exposure times may vary and can be found in the manufacturer's instructions for the products used.

5.2 Servicing

Please carry out a visual inspection on a daily basis and regularly check the product for cracks, breaks, missing parts and malfunctions. In case of a defect or malfunction, please contact the specialist dealer who supplied you with the product (see **Point 8.5**).

5.3 Maintenance

For reasons of user safety and to retain product liability, the product must be subjected to maintenance by a specialist dealer at least once a year (see **Point 8.5**). The maintenance work carried out must be documented in the maintenance plan (see **Point 5.3.2**).

5. Cleaning and maintaining.

5.3.1 Maintenance specifications

- Basic cleaning according to manufacturer instructions
 - The systems must not be exposed directly to the jet of a high-pressure cleaner. Connection cables must remain plugged in during cleaning to prevent any water ingress.
 - Pay special attention to the tube-in-tube connections. to ensure that the pre-greased inner tube remains greased, the actuator may only be cleaned if the piston rod is retracted completely.
- Disinfect according to the manufacturer's specifications as required
- Damages to the frame, mounting parts and accessories (cracks, breaks, corrosion, bent or missing parts)
- Tightness of connections (tighten loose screws, replace missing screws and end caps)
- Functionality of the adjustment elements (screws, release lever)
- Functionality of other adjustment elements (upper body support, headrest, all pelotte pads, footrests, table & guides in the leg area, tilt)
- Functionality of the gas pressure springs (if necessary readjustment of the bowden cables)
- If required, visual inspection of the electrical components including the wiring for damage
- Functionality of the safety elements (safety bolts of the tilt)
- Check the grip tape and the rubberised elements for wear and anti-slip effect
- Functionality of the brakes (parking brakes)
- Functionality of the rollers (concentricity, smooth running)
- Check the harness for damage (clamping device, closures, seams)
- Check the pads and covers for damage
- Legibility of the type label
- Final complete functional check of the aid
- Check of the correct mounting of all attachment parts and accessories
- Electrical components:
 - Check mounting points, cores, housings and plugs
 - Check the connections, cables, housings and plugs as well as correct functioning
 - For actuators/lifting columns, the mounting points, cores, piston rod, housings and plugs as well as correct functioning must be checked
 - Complete charging of the battery pack
 - The control unit is sealed and maintenance-free



5. Cleaning and maintaining.

5.3.2 Maintenance plan

Maintenance specifications of the manufacturer (see **Point 5.3.1**) were carried out:

Date	Company	Name	signature



Any defects or damage found must be repaired by the specialist dealer or the manufacturer before reuse.

5.4 Spare parts

Use only original accessories and original spare parts from Schuchmann, as otherwise the safety of the user is endangered and the warranty expires.

To order spare parts, please contact the supplying specialist dealer (see **point 8.5**) stating the serial number of the product. Necessary spare parts and accessories must only be installed by trained personnel.

5. Cleaning and maintaining.

5.5 Duration of use and re-use

The expected duration of use of our product, dependent on the usage intensity and amount of re-use, totals up to "8" years, if the usage takes place in accordance with the information in these instructions for use. It may be possible to use the product over and above this time period if it is in a safe condition. The expected duration of use does not refer to wear parts, such as for example covers, wheels, batteries.....

The maintenance and evaluation of the condition, and if applicable the potential for re-use, must be decided by the specialist dealer (**see Point 8.5**). The product is suited for re-use. Prior to forwarding, please follow the cleaning and disinfection instructions stated in **Point 5.1**. Accompanying documents such as these instructions for use are part of the product and must be passed on to the new user. No disassembly is required prior to re-use. In case of storage, it is recommended to adjust the product to its smallest possible dimensions.

5.6 Elimination of faults and troubleshooting

Troubleshooting actuators/lifting columns

Symptoms	Possible causes	Measures
No motor noises or movement of the piston rod	Defective	In these cases please contact your specialist dealer (see Point 8.5).
Motor is running, however the spindle does not move	Defective	
Drive cannot lift the full load	Defective / overloaded (adhere to max. load see Point 6.1)	

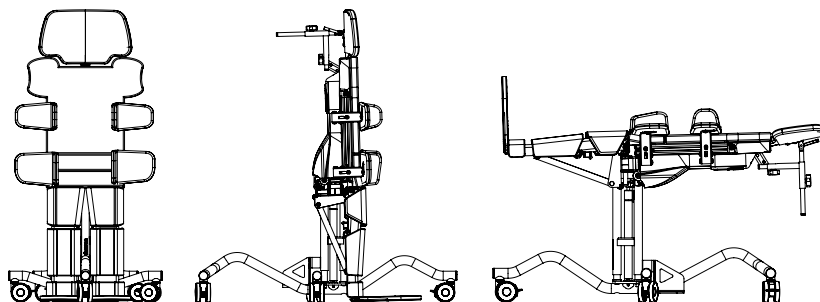
Troubleshooting electronics

Symptoms	Possible causes	Measures
Mains pilot light of the control unit does not light up	Not connected to the mains	Establish power connection
	The fuse is defective	In these cases please contact your specialist dealer (see Point 8.5).
	Defective power cable	
	Control unit defective	
Mains pilot light of the control unit lights up, however the actuator is not running	Defective	



6. Technical data.

6.1 Dimensions



		Size 1	Size 2	Size 3	Size 4
Body size		75 - 115 cm	100 - 135 cm	120 - 160 cm	145 - 185 cm
Upper body support	Pelvis/thorax width	14 - 27 cm	17 - 31 cm	20 - 37 cm	27 - 46 cm
	Length	30.5 - 43 cm	38 - 48 cm	49 - 61 cm	58 - 69 cm
Leg supports	Sole to knee	20.5 - 30.5 cm	27.5 - 37 cm	32.5 - 45 cm	42 - 54 cm
	Knee to crotch	12 - 18.5 cm	16.5 - 24 cm	20 - 29.5 cm	24.5 - 34 cm
	Knee angle	0° - 65°			
	Hip angle	0° - 45°			
	Abduction	0° - 30°			
	Level compensation	0 - 5 cm			
Feet	Pes equinus	0° - 20°			
	Pes suppinatus	0° - 15°			
	Pes valgus	0° - 15° in each direction			
Height of reclining surface (for transfer)		53.5 - 73.5 cm	60 - 85 cm	71.5 - 93.5 cm	82.5 - 104.5 cm
Tilt		0° - 90°			
Transport dimensions (L x W x H)		95 x 51 x 75 cm	105 x 61 x 85 cm	125 x 76 x 97 cm	152 x 77 x 110 cm
max. load		30 kg	60 kg	80 kg	100 kg
Weight		30 kg	35 kg	80 kg	90 kg

6. Technical data.

6.2 Drive system

system		
Protection class		IPX4
Protection class (electrical)		SK 2
Operating voltage		100 – 240 V AC / 24 V DC
Max. current	Size 1+2	234 VA
	Size 3+4	390 VA
Frequency		50 – 60 Hz
Motor nominal voltage		24 V DC

Battery pack		
Protection class (electrical)		supplied with power internally
Type		Lithium ion battery
Nominal voltage		25.9 V
Capacity		2.25 Ah
Charging time		approx. 10 h
Temperature ranges	Ambience	(+)5°C – (+)30°C
	Storage	(-)10°C – (+)40°C

7. Guarantee

The two-year statutory guarantee period shall apply for all products. It starts with the delivery or handover of the goods. Should a verifiable material or manufacturing fault occur within this time period, we shall, after carriage paid return to us, view the indicated damage and, if applicable, either repair or deliver a new product at our discretion.



8. Identification.

8.1 EU Declaration of Conformity



EU Konformitätserklärung EU Declaration of Conformity



Firma / Company Schuchmann GmbH & Co. KG
Rudolf-Runge-Str. 3 · 49143 Bissendorf · Deutschland / Germany
Tel. +49 (0) 5402 / 40 71 00 · Fax +49 (0) 5402 / 40 71 109

erklärt in alleiniger Verantwortung, dass das nachfolgend genannte Produkt der Risikoklasse 1
declares under our sole responsibility that the following product(s) of Class 1 Medical Devices

„till.“ Rückenschrägliegebrett / *Standing aid*

Art.-Nr. / *Item-No.*: 42 01 000, 42 01 100, 42 02 000, 42 02 100, 42 03 000, 42 03 100,
42 04 000, 42 04 100

42 01 000/NO21/4, 42 02 000/NO21/4,
42 02 100/NO21/5.1, 42 03 000/NO21/5.1, 42 04 000/NO21/5.1,
42 03 100/NO21/5.2, 42 04 100/NO21/5.2

6100-1043, 6100-1044, 6100-1045, 6100-1046, 6100-1047, 61001048, 6100-1049

Basis UDI-DI / *Basic UDI-DI*: 4251040200004000420XXXX9Q

den einschlägigen Bestimmungen der im folgenden aufgeführten Richtlinien und Standards entspricht:
is / are in conformity with the requirements of the below listed directives and standards:

Verordnung (EU) 2017/745 über Medizinprodukte vom 05. April 2017
Regulation (EU) 2017/745 on medical devices of 5 April 2017

DIN EN 12182:2012 Technische Hilfen für behinderte Menschen
Technical aids for disabled persons

DIN EN 12183:2014 Rollstühle mit Muskelkraftantrieb – Anforderungen und Prüfverfahren
Manual wheelchairs – Requirements and test methods

DIN EN ISO 14971:2022 Medizinprodukte – Anwendung des Risikomanagements auf Medizinprodukte
Medical devices – Application of risk management to medical devices

DIN EN 614-1:2009 Sicherheit von Maschinen – Ergonomische Gestaltungsgrundsätze –
Teil 1: Begriffe und allgemeine Leitsätze
*Safety of machinery – Ergonomic design principles –
Part 1: Terminology and general principles*

8. Identification.



EU Konformitätserklärung

EU Declaration of Conformity



Firma / Company

Schuchmann GmbH & Co. KG
Rudolf-Runge-Str. 3 · 49143 Bissendorf · Deutschland / Germany
Tel. +49 (0) 5402 / 40 71 00 · Fax +49 (0) 5402 / 40 71 09

DIN EN 60601-1:2013

Medizinische elektrische Geräte – Teil 1:
Allgemeine Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale
*Medical electrical equipment – Part 1:
General requirements for basic safety and essential performance*

DIN EN 60601-1-2:2016

Medizinische elektrische Geräte – Teil 1:
Allgemeine Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale – Elektromagnetische Störgrößen – Anforderungen und Prüfungen
*Medical electrical equipment – Part 1:
General requirements for basic safety and essential performance –
electromagnetic disturbances – requirements and tests*

DIN EN 60601-2-52:2016

Medizinische elektrische Geräte – Teil 2-52:
Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale von medizinischen Betten
*Medical electrical equipment – Part 2-52:
Particular requirements for basic safety and essential performance of
medical beds*

Diese Konformitätserklärung gilt nur für Produkte mit den oben genannten Artikelnummern und ist gültig bis zum 30.12.2025.

This declaration of conformity applies only for products with above-named item-numbers and is valid until 30.12.2025.

Datum / Date: 02.06.2022

Unterschrift / Sign:

Name / Name: Torsten Schuchmann

Funktion / Function: verantwortliche Person / Safety officer for medical devices

Datel: Konformitätserklärung till

Stand: Rev. 3.1

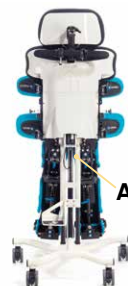
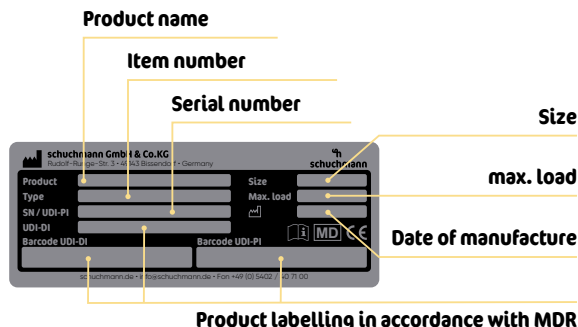
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8. Identification.

8.2 Serial number / date of manufacture

The serial number, the date of manufacture and other information can be found on the type plate, which is located on all of our products (**A**).



8.3 Product version

The **till.** supine standing frame is available in four sizes can be complemented through a diverse range of accessories (see **point 4**).

8.4 Issue of the document

till. instructions for use – Change status draft G; issue 06.2022

8.5 Name and address of the manufacturer, specialist dealer supplying the product

This product was manufactured by:



Schuchmann GmbH & Co. KG

Rudolf-Runge-Str. 3 · 49143 Bissendorf

Phone +49 (0) 5402 / 40 71 00 · Fax +49 (0) 5402 / 40 71 109

info@schuchmann.de · www.schuchmann.de

This product has been delivered by the following specialist dealer: