

tina.



User Manual.

tina. The cradle sub-frame with cradle system.




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 kindly request that you thoroughly read and adhere to the instructions in the User Manual before using the product for the first time. Please note that the information and illustrations in this User Manual may differ from your product due to its specific configuration. We reserve the right to make technical modifications.

Important information!

Ensure that this User Manual remains with the product.

Your **Schuchmann** – Team



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1. Preparation.

1.1 Delivery

Please check the product upon receipt for completeness, defects and any potential transport damage. Inspect the goods in the presence of your forwarder. If transport damage is detected, please ensure that a report (record of defects) is prepared 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 kindly request that you thoroughly read and adhere to the instructions in the User Manual before using the product for the first time. Product parts that may come into contact with the skin could potentially heat up when exposed to sunlight. Depending on the length and intensity of sunlight exposure, the surface temperature of certain parts may rise above 41°C, potentially causing mild burns upon 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 packaging of the product should be kept for potential future transport. If you need to send the product back to us for repair or a warranty claim, please use the original box if possible to ensure the product is properly packaged. Otherwise, dispose of the packaging materials by recycling them according to their type.



Do not leave the packaging materials unattended, as they may pose potential hazards.

1.3.2 Product

At the end of the product's lifecycle, recycle the raw materials used in the product according to their type (see material information under **Point 2.1).**



1. Preparation.

1.4 Where to store the User Manual

Keep the User Manual in a safe place and ensure that it remains with the product for any potential future use. If the user manual is lost, a current version can be obtained at any time from 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.

The covers are made of 100% polyester and/or 56% polyamide and 44% polyurethane and are flame-retardant (according to DIN EN 1021-1+2). Different materials consisting of polypropylene, polyester or polyurethane were used for the padding.

2.2 Handling / transport

The **tina.** cradle sub-frame is not designed for carrying, as it is equipped with wheels. If it does need to be carried, only carry without the user inside. Make sure that all movable parts are tightened. Position yourselves next to the cradle sub-frame with two people, each gripping the side frame at the front and rear, and carry it to the desired location. To transport the cradle sub-frame, adjust all settings to their most compact state (angle the leg and back sections, set the reclining height to the lowest position, retract the push handle, etc.).

2.3 Application areas, intended purpose

The cradle sub-frame with the **tina.** cradle system is a Class 1 medical device designed to enable children, adolescents, and adults who require care in a lying position to actively participate in community life. Any other use or use beyond this purpose is considered improper.

The cradle sub-frame with the **tina.** cradle system facilitates the adoption of a physiological and pain-free position for individuals with complex disabilities. The positioning cushion allows for a physiological starting position to support vital functions.

The positioning can be adjusted to help reduce pain and prevent pressure ulcers. Upright positioning, pre-set with the cradle sub-frame, enhances, facilitates, and maintains environmental awareness and interaction with other people.

2. Product description.

The cradle sub-frame enables movement within indoor spaces and outdoors, offering additional stimuli for perception. Medical support devices such as oxygen supplies or feeding tubes can be attached to the cradle sub-frame.

2.3.1 Indication

The cradle sub-frame with the **tina**. cradle system is designed for users with severe motor impairments.

These users typically exhibit:

- Lack of trunk and head control
- Limited ability to maintain an upright, seated position
- Spinal deformities (e.g., scoliosis)
- Contractures, primarily in the extremities
- Impaired vital functions (e.g., breathing)
- Risk of pressure ulcers due to prolonged static pressure on the skin

2.3.2 Contraindication

The indication for use should always be determined by a physician or (neuro)orthopedist. Before providing the device, it must be clarified whether there are any contraindications related to the patient. In general, any form of pain is considered a contraindication.



2.4 Improper use/warnings

- Proper use of the product requires thorough and careful training for the attending caregiver.
- The product must only be used on flat surfaces.
- Outdoor use is limited to dry weather conditions.
- The product must not be used without supervision.
- Refer to **Point 7** of this manual for information on the maximum patient weight.
- Ensure that the patient cannot touch any moving parts during adjustments.
- Repairs to the electric drive system must only be carried out by a qualified dealer.
- Engage the locking brake when positioning the user.
- Exercise caution when passing through narrow areas, such as door frames.
- Ensure that no extremities of the user or caregiver are in the adjustable area during any adjustments to minimize the risk of injury.
- Do not use the cradle sub-frame with defective, worn, or missing parts.
- To comply with fire safety, keep the cradle sub-frame away from open flames or strong heat sources, such as electric or gas heaters.
- Only use accessories and replacement parts from Schuchmann to avoid compromising user safety.



2. Product description.

- Use the cradle sub-frame only when all components are correctly installed and adjusted.
- Individuals with visual or reading impairments must have the manual read to them to ensure safe operation of the therapy aid.

2.4.1 Usage and safety guidelines for electric components

- Only individuals with adequate experience and knowledge of motor components should operate these parts.
- Individuals with physical or mental impairments may only use motor components under supervision or after receiving thorough instructions from a responsible person.
- Ensure children are supervised to prevent them from playing with motor components.
- Anyone connecting, assembling, or using the system must have access to this User Manual.
- Do not operate motor components in the presence of flammable or narcotic mixtures with air, oxygen, or nitrous oxides.
- Avoid using chemicals and inspect annually for damage and wear.
- Do not expose LINAK drive system components to UV disinfection lamps, as this can damage casings, support parts, and cables.
- Replace the product if any faults are detected.
- Prevent unintentional activation of the hand control during normal use or maintenance to avoid unintended movements. Activate the lock function of the hand control when leaving the product unattended (see **Point 3.1**).
- Adhere to the duty cycle printed on the drive system label to prevent system damage. Unless otherwise specified on the label, the duty cycle for mains operation is a maximum of 2 minutes of continuous use followed by an 18-minute pause.
- Avoid exposing systems to high-pressure washer jets.
- Ensure connection cables remain plugged in during cleaning to prevent water ingress.
- Cleaning with a steam cleaner is not permitted.
- No modifications may be made to any electrical components. In case of repairs, please contact the specialist dealer (see **Point 9.4**).
- If the product is visibly damaged, it must not be operated.
- If the drive system produces unusual noises or odours, immediately disconnect the power supply.
- The products may only be used in environments that correspond to their protection class (see **Point 7.3**).
- Do not use highly alkaline or acidic cleaning and disinfecting agents (only pH value 6–8).
- Regardless of the weight, the duty cycle specified in the data sheet must not be exceeded.

2. Product description.

- The control unit may only be connected to the voltage indicated on the label.
- Fastening screws and bolts must be properly tightened.
- The specifications on the label must not be exceeded under any circumstances.
- Unauthorized persons must not open the motor.
- Use the drive only within the specified load range.
- If irregularities occur, the motor must be replaced.
- When the device is not in use, disconnect the power supply or unplug it to prevent unintentional operation.
- Check the electric motors at least once a year for wear and noise.
- Inspect for malfunctions, mechanical damage, wear, and cracks. Worn parts must be replaced.
- Due to electrostatic discharge, temporary functional interruptions may occur in rare cases. The electric drive would stop during operation for safety reasons. Pressing the control unit again will allow the desired adjustment to continue.

Safety instructions for the hand control

- It is recommended to check the hand control and cables for damage and cracks caused by improper handling before cleaning or once a year.
- Clean the hand control regularly to maintain high hygiene standards.
- Do not immerse the hand control in water.
- Do not sit or lie on the hand control. This may cause unintentional movement of the application.

Safety instructions for the battery:

- Do not open the battery housing, as the cells or circuits may generate excessive heat.
- Defective or damaged lithium-ion batteries are not allowed for transport.
- Stop using the battery immediately if it emits an unusual odour, feels hot, changes colour or shape, shows signs of damage or corrosion, or appears unusual in any other way.
- The duty cycle printed on the battery label must always be followed. To prevent system damage. Unless otherwise stated on the label, the duty cycle for mains operation is a maximum of 2 minutes of continuous use followed by an 18-minute pause.
- **For safety reasons, always adhere to the specified charging, storage, and operating temperatures, as extreme temperatures (see Point 7.3) can ignite the battery and cause a fire.**



2. Product description.

- If the battery becomes too hot, disconnect it and leave the room. Wait 2 hours before taking further action. If it is not possible to remove the battery, evacuate the room.
- Before use, the battery should be at room temperature.
- The battery must be charged every 12 months.
- Only use the supplied charger to charge the battery.
- Recharge the battery before storage if it is fully discharged.
- The battery is not designed for use in swimming pools or other harsh environments.
- Dispose of the battery in accordance with local regulations.
- The battery always provides a power supply, even when the device is not in use. Please avoid unintentional operation.

2. Product description.

2.5 Equipment for basic model

- Electric height and angle adjustment (including hand control with lock function)
- Universal mounting points for reclining shells of all types
- Universal mounting points for attachments
- Patient lift compatibility for underneath access
- Depth-adjustable seat section
- Length- and height-adjustable push bar
- 16" PU rear wheels / 8" PU caster wheels or swivel castors (125 mm)
- Parking brake
- Frame colour: Pure white/light blue

2.6 List of accessories

- | | |
|---|---|
| • Foldable fall protection | • Wide safety strap |
| • Vacuum mattress | • Preparation of the sub-frame for the assembly of an electrical push aid |
| • Cover made from breathable fabric for vacuum mattress | • Wheel base extension |
| • Support mattress | • Infusion holder |
| • Knit fabric cover for positioning mattress | • Storage area for supply equipment |
| • Pillow | |



2. Product description.

2.7 Product overview

The illustration below is intended to show you the names of the key components, as well as the terms you will encounter while reading this User Manual.



2.8 Getting in and out

Before entering or exiting, or transferring the patient, always engage the parking brake. For the model with 16" rear wheels, press the brake bar (A) on the push bar (B) forward until it audibly clicks into place. To release the parking brake, pull the release lever (C). The brake bar returns to its neutral position, and the drum brake is disengaged. When using the swivel wheels, engage all 4



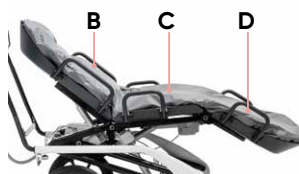
2. Product description.

swivel casters by pressing the foot pedal (A) located on the side with your toe and pushing the red-marked side downward. To release the lock, press the foot pedal back up to the neutral position with your toe.



The brakes only work reliably on an even surface!!

Now bring the backrest (B), seat surface (C) and foot section (D) into the horizontal position (see from **Point 3.1.4** 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 present, fold the fall protection to the side (see **Point 4.1**). Lift the user together with a second person or with the help of a hoist from the wheelchair/stroller/bed and place them onto the cradle sub-frame. Then fold the fall protection back up



When adjusting the cradle sub-frame, there is a risk of pinching or crushing limbs!

Now you can make fine adjustments to the individual sections of the reclining surface. Please follow the instructions for adjusting the respective components (see **Point 3**).



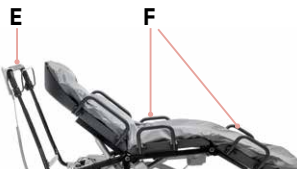
Only have the user get in and out of the product on stable and flat ground!

2.9 Transfer

The **tina**. can also be carefully and slowly pushed during use (e.g., to other rooms).

2.9.1 Holding and pushing points

Primarily use the push bar (E) for transfer. Alternatively, the reclining shell or fall protection (F) (if available) can also be used for 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. Ensure that no extremities of the user or caregiver are in the adjustable area during any adjustments to minimize the risk of injury. All adjustments can be made with standard tools (e.g. Allen key, screwdriver or spanner). Most settings can be made without using any tools.

3.1 Manual operation

Using the hand control, you can adjust the angle of the headrest, seat surface, and foot section, as well as determine the height of the reclining surface.

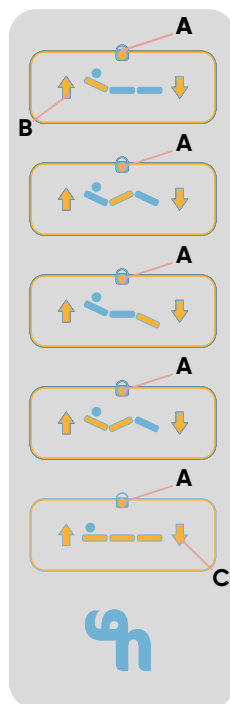
3.1.1 Safety function (lock function) of the hand control unit

To prevent accidental activation of the electric motors and operation by unauthorized persons, the hand control is equipped with a safety lock function.

In normal conditions, the functions/buttons of the hand control are locked. This is visually indicated by the lock symbols **(A)** lighting up orange when a button is pressed.

3.1.2 Unlocking manual operation

To unlock the hand control and enable operation of the electric adjustment drives, the operator must simultaneously press buttons **(B)** (row 1 left) and **(C)** (row 5 right) for 3 seconds. After 3 seconds, an acoustic signal ("Beep") will sound, and the orange LEDs behind the lock symbols **(A)** will turn off. Now the electric adjustment drives can be operated by pressing the buttons. Once the adjustments have been completed by the authorized person, the hand control remains unlocked for another 5 minutes after the last button press. After these 5 minutes, another acoustic signal ("Beep Beep") will sound, the orange LEDs behind the lock symbols **(A)** will light up, and the hand control will be locked again.



3. Settings.

3.1.3 Reclining surface height

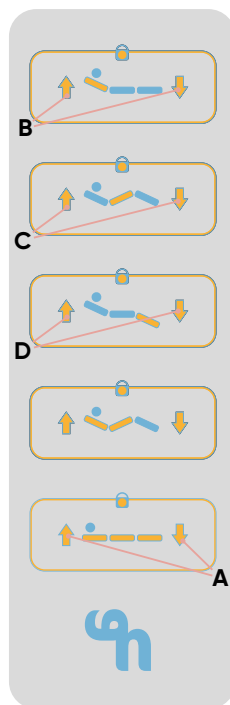
The reclining surface height is adjusted via the manual control unit. If the hand control is locked, unlock it by pressing a specified key combination (see **Point 3.1.2**). The height of the reclining surface is adjusted by pressing the buttons (**A**) in row 5. Release the button once the cradle system reaches the desired height.

3.1.4 Back angle

The back angle is adjusted via the manual control unit. If the hand control is locked, unlock it by pressing a specified key combination (see **Point 3.1.2**). The backrest angle (130° – 180°) is adjusted by pressing the two buttons (**B**) in row 1. Release the button once the desired angle is reached.

3.1.5 Seat angle

The seat angle is adjusted via the manual control unit. If the hand control is locked, unlock it by pressing a specified key combination (see **Point 3.1.2**). The seat angle (0° – 40°) is adjusted by pressing the two buttons (**C**) in row 2. Release the button once the desired angle is reached.



For safety reasons, the adjustment drives for the backrest and seat angles are preset so that the smallest adjustable angle between the seat and backrest is 120° . If the seat is already tilted by 30° , the backrest can only be raised up to 30° (resulting in a 120° angle between the two surfaces) and will then stop automatically. If the tilt of either the seat or the backrest is reduced, the tilt angle of the other surface can be increased accordingly.

3.1.6 Knee angle

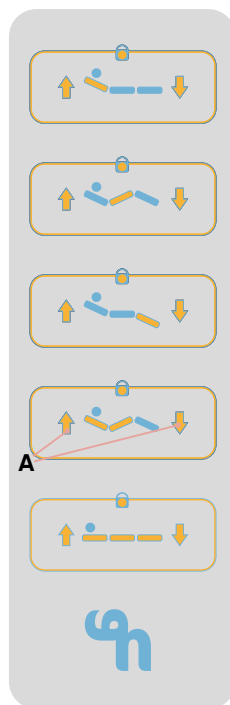
The knee angle is adjusted via the manual control unit. If the hand control is locked, unlock it by pressing a specified key combination (see **Point 3.1.2**). The knee angle (110° – 180°) is adjusted by pressing the two buttons (**D**) in row 3. Release the button once the desired angle is reached.



3. Settings.

3.1.7 Tilting

The seat tilt is adjusted via the manual control unit. If the hand control is locked, unlock it by pressing a specified key combination (see **Point 3.1.2**). The seat tilting (backrest and seat tilt together without changing the angle between them) is adjusted by pressing the two buttons **(A)** in row 4. Release the button once the desired angle is reached. The seat can be tilted until one of the surfaces reaches its end position (seat angle is at 0° or 40° or backrest angle is at 130° or 180°).



3.2 Seat depth

The seat surface **(B)** can be continuously adjusted in depth by 15 cm. To do this, loosen the hex screws **(C)** on both sides beneath the seat surface. Once the screws are loosened, grip the foot section **(D)** and pull the seat surface apart to extend it or push it together to shorten it. Retighten the hex screws **(C)** afterwards.

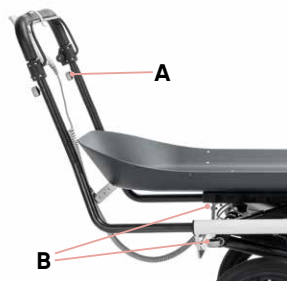


The depth of the seat may only be adjusted without a user! Then firmly re-tighten the screws again!

3. Settings.

3.3 Push bar

The push bar can be moved down after release of the two rotary handles (A). By loosening the two rotary handles (B), the push bar can also be adjusted in depth.



Then re-tighten the rotary handles in the required position!

3.4 Brakes

Depending on the base model of the **tina**, the sub-frame is equipped with either 16" or 8" PU wheels or 125 mm swivel casters. The braking system varies depending on the equipment.

3.4.1 Drum and parking brake for 16" or 8" PU wheels.

Drum brake

The drum brake allows safe braking. The brake is operated via the brake bar (C) at the top end of the push bar. Pulling the brake bar towards the push bar engages the drum brake (brake pads press against the wheel hub housing). Releasing the brake bar returns it to its neutral position, disengaging the drum brake.



Locking brake

To engage the parking brake, push the brake bar (C) on the push bar forward until it audibly clicks into place. The brake is now locked. To release the parking brake, pull the release lever (D). The brake bar returns to its neutral position, disengaging the drum brake.

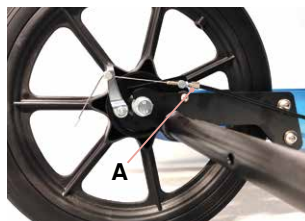


Do not pull the brake bar towards you to release the parking brake, as this may damage the brake. The parking brake must always be released using the release lever.

3. Settings.

Setting the drum brakes

The drum brakes are set by turning the setting screws (A) in or out. They are located at the lower end of the brake cables in the brake saddle. For precise adjustment, loosen the screw slightly until you hear a scraping sound when turning the drive wheel. In this state, the brake pads lightly touch the hub housing. Then turn the setting screw 1 turn back and clamp it in place with the nut. Check the function of the drum brake and readjust the setting screw if necessary.



3.4.2 Directional & total lock for 125 mm swivel casters

Directional lock

The 4 swivel casters allow for more flexible and easier movement, particularly for lateral movements. The two rear swivel casters are equipped with a directional lock. The locks are engaged using the side foot pedal (B). When the foot pedal is in the neutral (horizontal) position, all 4 swivel casters are free to move. To lock the two rear swivel casters with the directional lock, press the green-marked side of the side foot pedal (B) down with your toe. Once the rear swivel casters are aligned straight, the directional lock engages. To release the lock, press the foot pedal back up to the neutral position with your toe.



Total lock

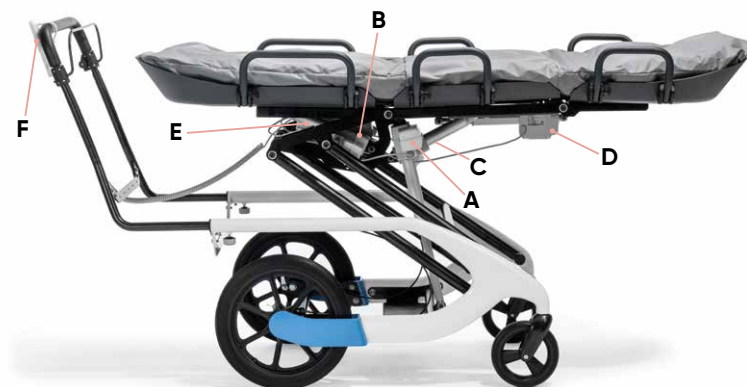
To lock/brake all 4 swivel casters, press the red-marked side of the side foot pedal (B) down with your toe. All 4 swivel casters are now locked. To release the total lock, press the foot pedal back up to the neutral/horizontal position with your toe.

3.5 Motor support

The **tina.** cradle sub-frame is equipped with 4 motors as standard. These control the height adjustment of the reclining surface (A), as well as the backrest angle (B), seat angle (C), and knee angle (D). In the standard

3. Settings.

version, the motors are powered by a battery located beneath the control unit (E). A power cable is also provided. All motors are controlled via a hand control unit (F).



Please observe the usage and safety instructions (see Point 2.4)!

3.5.1 During operation

- Pay attention to unusual noises and irregular operation. Stop the actuator/lifting column immediately if you notice 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 9.4).

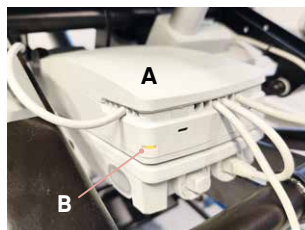
3. Settings.

3.5.2 Motor unit

The motors used for height, backrest, seat, and knee adjustment are compact, quiet, and powerful drives, operated by the hand control (see **Point 3.1**).

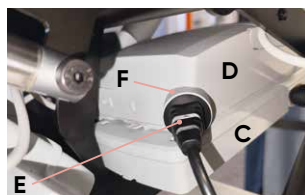
3.5.3 Control unit

The control unit (**A**) evaluates all signals and to control the motor, taking into account the set parameters, so that it achieves the appropriate force. 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 operates solely on battery power (see **Point 3.5.5**), the LED is off. When the control unit is activated via the hand control, the LED lights up orange. The built-in buzzer in the control unit emits a "beep" sound when a button on the hand control is pressed, indicating either low battery capacity or a software error.



3.5.4 Battery pack for motor support

The motors are powered by a lithium-ion battery (**C**). This battery is lightweight, powerful, and safe. It charges automatically via the control element (**D**) when connected to the power supply. The power cable plug (**E**) is inserted into the corresponding socket (**F**) on the back of the control unit. The integrated LED (**G**) on the battery lights up orange during charging. The LED turns off when the battery is fully charged. If the battery is low during operation, the buzzer in the control unit emits a "beep" sound when a button is pressed on the hand control. If the LED blinks during charging, an error has occurred. In this case, please contact your dealer (see **Point 9.4**).



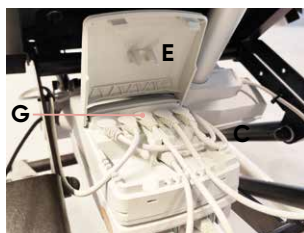
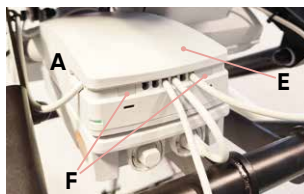
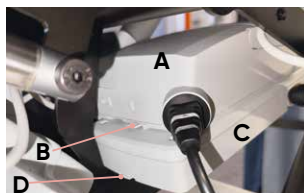
Refer to the battery safety instructions (see Point 2.4.3).

3. Settings.

3.5.5 Disconnecting and removing the control unit and battery

If the device is not in use for an extended period, it is recommended to disconnect the battery from the control unit. To do this, open the cover (E) on the control unit (A) by pressing the two release tabs (F) from the top. Disconnect the power supply by pulling out the plug (G) and closing the cover (E).

To remove the control unit (A), press the release tab (B) backward while simultaneously pulling the control unit (A) upward. To remove the battery (C), press the release tab (D) backward while simultaneously pulling the battery (C) upward.



4. Accessories.

4.1 Foldable fall protection

The fall protection can be folded down for transfer or to improve user access. A) with the other hand. Hold the fall protection bar with one hand and pull the release lever (A) with the other hand. You can now fold the bar downward. To return the bar to its original position, fold it back up towards the user until the release lever audibly clicks into place, securely locking the bar.

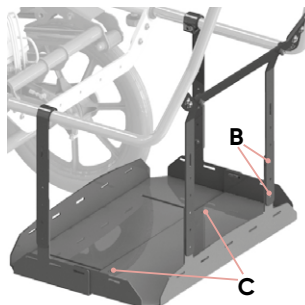


Note: When folding up the bar, the release lever must click audibly. Ensure all limbs are kept clear of adjustment areas and locking levers. Risk of pinching!

4.2 Storage area for supply equipment

Storage area on the push bar

The storage area on the push bar can accommodate devices measuring 56 cm (width) x 50 cm (height) x 22-37.5 cm (adjustable depth). The height can be adjusted via the perforated brackets. To adjust the height, loosen the screws (B) on each bracket, move the storage area to the desired height, and retighten the screws. Ensure that each of the four brackets is secured with two screws. To adjust the storage area depth for extended push bar length or to provide space for a pushing aid, loosen the two screws (C) on the base plate and slide the storage area along the slots to the desired position. Loosen the two screws (C) on the base plate and slide or pull the storage area along the slots to the desired position. Then retighten the two screws (C).

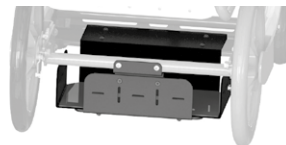


4. Accessories.

Storage area on the sub-frame

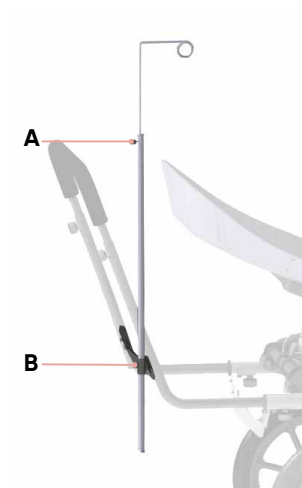
The sub-frame storage area can accommodate devices measuring 40 cm (width) x 25 cm (height) x 22/30/32/40 cm (depth). The depth depends on the wheels or casters used and whether a wheelbase extension is installed.

The slots should be used to secure medical devices, allowing for straps up to 25 mm in width.



4.3 Infusion holder

The IV pole is telescopic. To extend or shorten it, loosen the wing screws (A) and/or (B) and adjust the pole to the desired length. Now you can tighten the screws again.



4. Accessories.

4.4 Transport in the vehicle

The **tina**. meets the requirements of ISO 7176-19 and can therefore be used as a seat in the vehicle. However, if possible, sitting in the vehicle seat is always preferable to sitting in the **tina**.. In this case, the **tina**.. must be stowed safely in the luggage compartment of the vehicle.

To use the **tina**.. as a seat in the vehicle, some preparations must be made.

When using a storage surface attached to the push bar, adjust it to the shortest possible depth (see **point 4.2**). If you are using an electric push aid, remove it before transporting the **tina**.. in the vehicle.

The prerequisite for transporting the **tina**.. in the car is an existing loop connection with four attachment points in the vehicle.

A 4-point safety system with retractor belts is a prerequisite for transporting the **tina**.. in a car. Hooks, carabiners or loops can be used to attach the retractor straps.

4.4.1 Fastening the safety harness

Three safety belts are available to position the user safely in the **tina**.. for transport in the vehicle. A safety belt **(A)** for secure positioning of the shins, a safety belt **(B)** for secure positioning of the thighs and a safety belt **(C)** (4-point harness belt) for secure positioning of the upper body. Place the belts over the corresponding part of the user's body, close the buckles **(D)** and tighten the seat belts by pulling the belt ends so that the belts are in contact with the user. To set the optimum position of the harness in the thigh and upper body area, loosen the screws **(E)** on both sides, slide the harness holder in the slotted hole into the desired position and then tighten the screws again.



4. Accessories.

4.4.2 Fixing the leg and head sections

To prevent the individual lying surface sections from moving, they are connected to the base frame for transportation in the vehicle. To do this, set the lying surface to the lowest height dimension (see **point 3.1.3**).

Adjust the head section to an upright position of at least 50° (see **point 3.1.7**) and the seat and leg sections (see **points 3.1.5** and **3.1.6**) to a starting position that is as horizontal as possible.

Secure the foot section (and therefore also the seat section) to the base frame using the straps (**A**). To do this, connect the two parts of the straps using the buckle (**B**) and tighten the straps by pulling the ends of the straps (**C**).

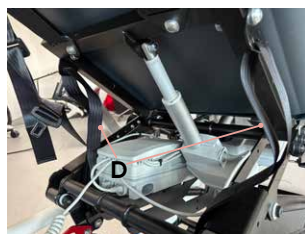
The straps (**D**) for securing the head section must also be taut! Bring the head section into a position in which the straps (**D**) are at maximum tension (see **point 3.1.4**).

If necessary, push the push bar as close as possible (see **point 3.3**).

The user is now protected against movements of the **tina**. caused by external influences.



If the required upright position of 50° cannot be achieved, a medical certificate in accordance with the third ordinance on exemptions from road traffic regulations must be carried. You can find the form here:



4. Accessories.

4.4.3 Securing the tina. in the vehicle

Position the **tina.** in the vehicle in the direction of travel as specified by the vehicle manufacturer. Activate the parking brake or the total locking of the swivel wheels (see **point 4.2**). Then secure the tina. with the vehicle's own wheelchair restraint system. To do this, use the red eyelets at the front (**A**) and rear (**B**). Start with the red eyelets (**A**) in the leg area of the tina. by threading the vehicle's own wheelchair restraint system through the red eyelets (**A**).

Then secure the **tina.** to the red eyelets (**B**) in the head area in the same way.

Secure the user with the vehicle's own three-point belt or lap and shoulder belt (**C**).

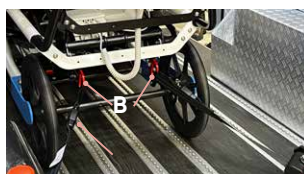
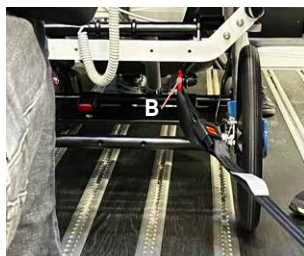
Make sure that the lap belt lies close to the pelvis and forms an angle of 30° to 75° with the horizontal. A steeper angle (45° to 75°) is preferred.



The belts must not be held away from the body by components (e.g. the fall arrester). Fold down the safety rail (if present) before using the tina. as a seat in the vehicle.



The shoulder belt must be routed over the middle of the shoulder. The straps must not be twisted and should be as close to the body as possible without compromising the user's comfort.



4. Accessories.

Once transportation in the vehicle is complete, release the wheelchair restraint system and transport the **tina.** out of the vehicle. Then loosen the straps to secure the leg and head section (see **point 4.4.2**). The lying surface can now be returned to the desired position.



Make sure that the vehicle's own wheelchair restraint system is designed for the weight of the tina. including the user's weight (see point 7.1)



The vehicle's restraint system may only be attached to the specified attachment points (red eyelets).

4.4.4 Video explaining how to use the tina. in the car

Here you will find a helpful video explaining how to use tina. in the car.



5. Vacuum cushion by VakuForm.

5.1 Application

Vacuum system for positioning and safe support, in particular in case of extremely severe and multiple disabilities. For general pressure relief on the support surface with optimum stabilisation of the patient.

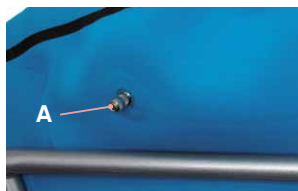
Particularly suitable for:

- Supine position
- Lateral position
- Prone position
- Adaptation to difficult anatomic conditions



5.2 Adaptation

Ventilate the system to the point where the patient can sink into the material by adding air through valve (A) with the supplied hand pump. A gel-like consistency is most suitable for this.



Avoid inflating the system.

Before positioning the patient, adjust the positioning system so that the granulate in the cushion cannot shift. This is done using the supplied pump by ventilating or vacuuming until a soft, deformable consistency is achieved. Assist the patient to sink into the material by pushing the filling material under the patient or away as applicable. In this way, you can for example support a patient with severe scoliosis by pushing the system granules into the required areas in advance. For prone position, you should push the granules of the first third of the system together before placing the patient into the cradle in order to create a wedge shape. As soon as the required sinking depth is achieved, you can start with correction work. The aim is to achieve as symmetrical a position as possible within the scope of the illness symptoms. To do this, it is necessary to model the filling material from the outside towards the patient in the manner described above.

For stable lateral guidance, you require a support surface with a large volume. You should shift the material required for the purpose from the edges of the system.

Once the required correction has been achieved, remove the air via the vacuum system using the pump until the achieved firmness no longer per-

5. Vacuum cushion by VakuForm.

mits deformation. If you subsequently wish to change the achieved position again, add just enough air with the pump until the system can be deformed once more. Then the system is vacuumed to its maximum extent once more. If the intention is to permanently preserve the position this way, it is essential that the host connection between the pump and the system are interrupted, as otherwise small quantities of air can penetrate into the system via the valve.



The valve only closes tightly when the hose is removed from the quick coupling.

We recommend taking the patient one last time out of the system and to check the Neoprene cover for formation of folds. Should this occur in rare cases, you can simply smooth over the folds by tugging on the Neoprene cover.



For optimum pressure relief, a smooth, homogeneous surface is required.

We can supply a 7 mm high spacer fabric with our support system if requested on order, for the improvement of the microclimate. Please insert this into the resulting shape according to the abovementioned procedure. If applicable, the width of the shape must be slightly widened by hand.

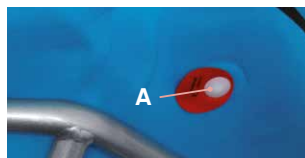


5.3 Discharge of the granules

This section is exclusively intended for trained specialist personnel!

In order to regulate the contents of the support system as required, you can discharge excess granules via a refill valve using a transfer bag.

1. Hold the system so that the white transfer spout (A) is located at the uppermost point of the system.
2. Add enough air via the valve (B) into the system until the granules slide downwards and the spout is lifted clear.
3. The closure is inserted into a 3 cm round and 8 mm thick rubber disc. If you now grip with both thumbs close to the edge of the supports, you can press out the closure approximately 2 mm out of the disc from below with the tips of your fingers through the Neoprene hole. Please ensure that the granules do not fall out of the system on removing the closure.



5. Vacuum cushion by VakuForm.

4. Now insert the transfer bag valve deep into the rubber disc so that it cannot slip out inadvertently during transfer.
5. Add sufficient air to the system (here the transfer bag valve must remain closed).
6. Only after you have exercised pressure onto the system (with the hands; even better with your arm) will the transfer valve open up. The transfer bag should be located below the cushion to be emptied.
7. Using the air flow, the granules are now pressed into the transfer bag. Ensure that it is powerful and continuous. If the air flow is reduced or interrupted, there is a risk that the flow of granules will stagnate and that the valve will become blocked. If this happens, you will have to briefly press air back from the transfer bag into the support system. The blockage should then clear quickly. If most of the air from the system has flowed into the transfer bag and the transfer procedure has not yet been completed, convey the air back into the cushion by pressing on the transfer bag. Then you can continue the transfer procedure as described above.
8. After completion of the transfer procedure, carefully pull the valve out of the rubber ring.
9. Now re-insert the closure, whereby it must be ensured that no more granules are located in the opening, as otherwise the tightness of the system may be adversely affected.



The granules are refilled analogue to the procedure described below in reverse.



Please leave the discharge of the granules to trained specialist personnel!

5.4 Care instructions for the vacuum cushion

With regard to the care of our products, we supply the following care instructions:

- The vacuum cushion is hand washable up to 60°C
- The vacuum cushion can be disinfected with standard disinfectants
- Allow the vacuum cushion to air dry after washing

Caution!

The surface material of the vacuum cushion can be damaged by fire or sharp objects, which may result in a loss of material integrity. We accept no liability for such damages. Do not expose the product to machine washing, spin drying, or high heat. Please note that due to physical properties, the positioning system may soften when exposed to high heat (e.g., during summer in a closed vehicle or under prolonged direct sunlight). In extreme cases, this can result in a loss of shape stability. Such shape loss does not

5. Vacuum cushion by VakuForm.

indicate material fatigue or damage. Both the filling material and residual air in the system naturally expand when exposed to high heat, which can cause softening. However, the system will return to its original consistency once the temperature drops. To prevent unwanted shape changes, we recommend avoiding prolonged exposure to high heat. If pressure changes occur in the system as described, they can be easily regulated by releasing air with the pump.



6. Cleaning and maintaining.

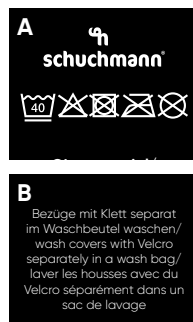
6.1 Cleaning and disinfecting

6.1.1 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 heavier soiling. Thorough drying of the cleaned areas is important.

All fabrics that cannot be removed can be wiped with a moist cloth. The support system is washable by hand up to 60°C. For all removable fabrics, please follow 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**.



6.1.2 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.



Please observe the warning notices for the electrical components (see Point 2.4.1)!

6.2 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 9.4**).

6.3 Maintenance

For reasons of user safety and to maintain product liability, maintenance must be carried out at least once a year by a specialist dealer (see **Point 9.4**). The maintenance work carried out must be documented in the maintenance plan (see **Point 6.3.2**).

6. Cleaning and maintaining.

6.3.1 Maintenance specifications

- Basic cleaning according to the manufacturer's specifications
- Disinfect according to the manufacturer's specifications as required
- Damages to the frame, mounting parts and accessories (cracks, breaks, corrosion, bent or missing parts)
- Strength of the connections (tighten loose screws, replace missing screws)
- Functionality of the adjustment elements (screws, release lever)
- Functionality of other adjustment elements (head section, seat section, leg section)
- Functionality of the gas pressure springs
- If necessary, functionality check of the electrical height adjustment, back adjustment and adjustment of angle of inclination, including the wiring
- Functionality of the vacuum mattress and the associated electrical pump
- Functionality of 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 that all mounting parts and associated accessories are correctly fastened

6.3.2 Maintenance plan

Manufacturer's maintenance requirements (see **Point 6.3.1**) have been carried out:

Date	Company	Name	Signature



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



6. Cleaning and maintaining.

6.4 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.

Should you wish to order spare parts, please contact the specialist dealer who supplied you with the product, stating the serial number of the product (see **Point 9.4**). Necessary spare parts and accessories must only be installed by trained personnel.

6.5 Usage period 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 wheels, gas pressure springs,... . The maintenance and evaluation of the condition, and if applicable the potential for re-use, must be decided by the specialist dealer.

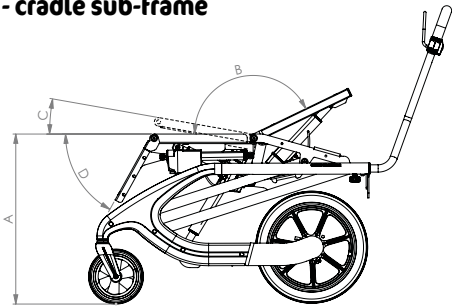
The product is suited for re-use. Prior to forwarding on, please follow the cleaning and disinfection instructions stated in **Point 6.1**. Accompanying documents such as these Instructions for use are part of the product and must be passed on to the new user. No disassembly is required prior to re-use. In the case of storage, it is recommended to fold the product to the smallest dimension to save space.



Should a serious incident occur during the service life of the product despite being used as intended, this must be reported immediately to the manufacturer and the competent authority.

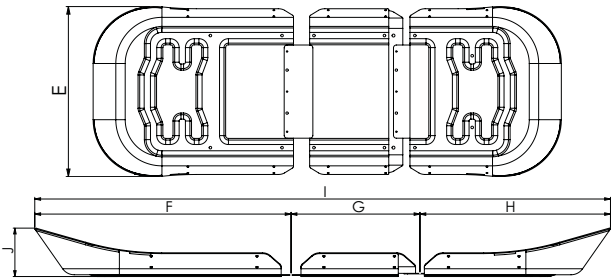
7. Technical data.

7.1 Dimensions - cradle sub-frame



		tina.
A	Height of cradle support from floor	53 – 79 cm
W	Adjustable back angle (If C is set to 10°, then also 120° – 180°)	130° – 180°
C	Adjustable seat angle	0° – 40°
D	Adjustable knee angle	110° – 180°
	Base frame width	64 cm
	Weight	70 kg
	max. load	100 kg

7.2 Dimensions - cradle system



		Size 1	Size 2	Size 3
E	Width	59 cm (with fall protection +12 cm)		
F	Length of head section	60 cm	75 cm	90 cm
G	Length of seat section	35 – 50 cm		
H	Length of leg section	45 cm	55 cm	65 cm
I	Total length	140 – 155 cm	165 – 170 cm	190 – 205 cm
J	Height	6 cm (with fall protection +9 cm)		



7. Technical data.

7.3 Electrical components

Component designation	
Lithium-ion battery	
Control	
Linear drive	
Hand control unit	

General ambient conditions	
Application temperature	+5° C to 40° C
Storage temperature	-10°C to +50°C (+10 °C to +25 °C recommended). Battery modules must be stored in a suitable storage room, protected from direct sunlight.
Relative humidity	20% to 80%
Air pressure	700 to 1060 hPa

Use	
Duty cycle	10% or 2 minutes of continuous operation followed by an 18-minute pause

Battery	
The battery communicates its charge status with the control unit. This allows for display on the control unit and/or the operating unit.	
Lithium-ion technology	Nickel-Manganese-Cobalt Oxide (NMC)
Output voltage	25.7 V DC
Max. discharge current	10 A
Battery capacity	2.85 Ah / 73.25 Wh
Protection class	IPX6 (water protection during temporary submersion)
Charging	With an integrated charger in the battery
Charging time	approx. 10 hours Charging during storage: Charge the battery no later than 12 months after the specified production date (see label). After this, the battery needs to be charged at least every 12 months.

7. Technical data.

Control

Maximum power is 120 W for 80 seconds and 60 W for 40 seconds at 25°C

Drive

Input voltage	24 V
Protection class	IPX6 (water protection during temporary submersion)

Hand control unit

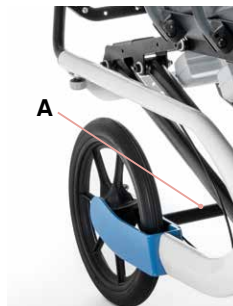
Protection class	IPX4 (splash protection) or IPX6 (water protection during temporary submersion)
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8. Guarantee

The two-year statutory guarantee period applies for all products. This begins with the delivery or transfer 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.

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)**.



The cradle sub-frame with the **tina.** is available in two models and can be supplemented with a variety of accessories (see **Point 2.6**).

User Manual **tina.** – Change status J; issue 03.2025

This product was manufactured by:



This product has been delivered by the following specialist dealer:





schuchmann.de