HD rehab

HD force

User Manual | English



This user manual is available in PDF format at hdrehab.com and can be enlarged on screen.

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THANK YOU FOR CHOOSING A WHEELCHAIR FROM HD REHAB,
WE HOPE IT WILL SERVE YOU WELL

WE MANUFACTURE QUALITY OF LIFE

HD Rehab helps people achieve an improved quality of life. Our products help make the lives of users, their families, and caregivers easier, safer, and more comfortable.

HD Rehab offers assistive products for people living with disability. Our primary product is wheelchairs, which we have been designing, developing, and manufacturing for over 40 years. We accept no compromises in quality. Precision, safety for user and caregiver, function, and design are our guiding principles. We are confident that you will feel the difference compared to any other wheelchair.

GLAD TO BE FLEXIBLE

Whether you are a user, a family member, or a caregiver we welcome your requests and opinions. Our designers and developers work closely with the production team at our facility on the island of Lidingö in Stockholm. Our creative employees use their specialist knowledge, experience, and inventiveness to find solutions for the unique needs of each individual.

1. WARRANTY

The warranty is only valid if the product is used as directed and the service and cleaning instructions are followed.

THE WARRANTY COVERS:

Frame	5 years against defects in materials, manufacturing and/or assembly.
Leg-/arm-/headrests	Two years against defects in materials, manufacturing and/or assembly.
Upholstery	Two years against defects in materials and faults in manufacture.
Gas springs	Two years against defects in materials and faults in manufacture.

WARRANTY & LIMITATION OF LIABILITY

HD Rehab assumes no liability for damages arising out of the following:

- That the instructions in the manual were not followed.
- Incorrect installation or setup by a third party other than HD Rehab.
- Unauthorized modifications or adaptations.
- Use of spare parts from other manufacturers than HD Rehab.
- Use by persons weighing more than the maximum user weight stated on the wheelchair.
- That the wheelchair is adjusted to an inappropriate position or setting for the user.

2. GENERAL INFORMATION

HD Force is a class 1 CE labelled medical device.

2.1 Intended use

The wheelchair model HD Force 24 is a manual wheelchair designed for users who can propel themselves to a certain extent. This model can also be used by users who cannot propel themselves.

The wheelchair model HD Force 16 is a manual wheelchair designed for users who cannot propel the wheelchair themselves.

Both models are intended for use by users in need of much comfort and support when seated. The seat and back on both models can be tilted in various positions to give the user a varied position during activity and rest. A varied seat position is very important. Note that prolonged sitting without a position change can lead to discomfort and excessive pressure. If injury is suspected, look for information regarding symptoms and contact the health care system.

Use of a HD Force wheelchair requires a prescription from a medical professional. This applies to both new and used wheelchairs. Note that a new prescription may be needed if a user's disability changes or new needs arise. All prescription and adjustment of the wheelchair must be carried out by qualified personnel.

Where the wheelchair has several users, each patient's specific needs must be taken into account. In addition, the chair's upholstery on the back and seat cushions must be washed or changed for each user. Washing instructions are on the seat and cushion covers.

If the user has a pattern of movement or behaviour that strains the chair excessively a strengthened frame version and one piece footrest and calf support must be used. This includes users with significantly increased tonus/spasticity.

2.2. General safety aspects

HD Force is primarily intended for indoor use. Outdoor use can be very limited by the heavy weight of the user making the wheelchair difficult to manoeuver, especially on uneven surfaces.

Before using the wheelchair, it is important that users and carers are familiar with how the chair works and how it should be used.

Test the driving characteristics and features.

- Read the whole manual and have it available. Note that deviations may occur especially if the wheelchair is specially equipped or adapted. The wheelchair may also be equipped with accessories and equipment from other suppliers.
- From a safety perspective, it is important to follow the maintenance instructions. See section ***6 Maintenance and care***. A good rule is to keep the wheelchair clean and regularly test the controls and brakes.
- Be careful with all cables so that they do not get damaged. Particularly, when the chair has been transported it is good to do a further check to note that no cables have been damaged.
- If damage is detected or any component found to be missing the wheelchair must be taken out of service until this is fixed.
- The wheelchair should be operated and used judiciously to avoid unnecessary risks.
- The wheelchair is not intended to be operated by children.
- If the wheelchair is exposed to external heat sources such as sunlight some parts may become hot. Pay attention to this so that the user is not harmed.
- Be aware that certain items of clothing are not suitable as they may get caught in the wheels. Be especially careful with scarves and similar items that can tighten around the user's neck if caught.
- Sitting for long periods entails certain risks, e.g. circulation disorders such as thrombosis (blood clots). If such a problem is suspected, gather information regarding symptoms and contact medical care. A varied seating position throughout the day is important.

CUSHIONS

- Seat cushions made of foam have a limited lifetime depending on use. Cushions should be checked regularly and replaced as needed for the safety and comfort of the user. This helps avoid harm such as pressure sores. Only cushions designed to suit the weight of the user are to be used. If harm is suspected, gather information regarding symptoms and contact medical care. See also section ***6 Maintenance and care.***

TIPPING RISK

- Do not hang bags, oxygen bottles, or other items on the seat back, especially when the chair is fully tilted back.
- Some users have involuntary movements, or are very active, and want to grab hold of solid objects (e.g. door frames). Use caution with these users and ensure that you are aware when their behaviour can tip the wheelchair. Avoid parking near fixed objects.

PINCHING RISK

- As the wheelchair has many different configuration options the caregiver must be alert to the user's position in the chair, to avoid the possibility that the user could be pinched. The risk of pinching is small under normal circumstances.
- Keep in mind that the user cannot always communicate that a pinching injury is occurring.

LIFTING

This advice is general since there are many different lifting aids available.

- When lifting in and out of the wheelchair be very attentive that the user's arms and legs do not get caught. Fold in the footrests or remove them so that they do not get in the way. Follow the lifting aid instructions carefully.
- Training is often required to operate the lifting aid.

CE MARKED ACCESSORIES, CUSTOMIZING

- HD Rehab has a number of CE-marked accessories that are authorized for use with the wheelchair while maintaining the CE marking. Accessories that have not been approved may not be used.
- Any change to the wheelchair or use of accessories that are not certified and CE-marked by HD Rehab is a special adaptation and a transfer of liability occurs. Specially adapted wheelchairs do not retain CE marking and the warranty is void. Always consult HD Rehab if unsure about what applies. Help is available for special adaptations for individual users.

DAILY FUNCTIONAL CHECK

To ensure that the wheelchair works as it should, a daily function test should be performed before the user is positioned in the seat. See section ***6.1 Daily functional check***.

REPLACEMENT PARTS AND SERVICE

If the wheelchair is in need of replacement parts or service contact the reseller.

SAFETY NOTICES AND PRODUCT RECALLS

Information regarding any safety notices and product recalls can be found at hdrehab.com.

WARNINGS

In addition to these general safety aspects there are warnings and notices contained in each section in the manual. They are marked with a warning triangle as follows:

⚠ | - Here is the warning.

2.3 Tests

Wheelchair tests have been carried out for HD Force at RISE Research Institutes of Sweden, Borås, Sweden (ISO 7176-19:2022). Crash testing has been carried out at Dahl Engineering, Thisted, Denmark (ISO 7176-19:2022). Resistance to ignition tests have been carried out at Swerea IVF, Mölndal, Sweden (ISO 7176-16:2013, EN 1021-1, EN 1021-2). More information and certificates are found at hdrehab.com.

2.4 Wheelchair identification

Manufacturer, production year, serial number (SN), and article number (REF), in text and in bar code format, are printed on the front cross tube of the wheel frame, see Figure 1.

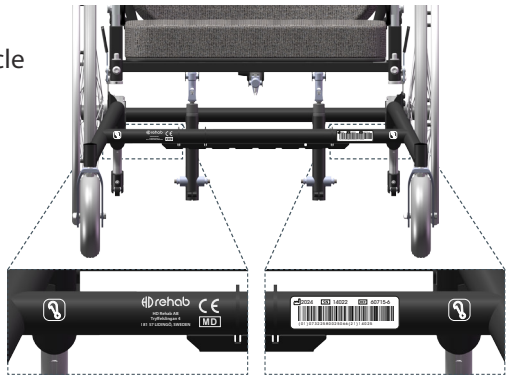


Figure 1. Labels for wheelchair identification

2.5 Wheelchair parts

1 Wheel frame
2 Seat frame
3 Back frame
4 Back system
5 Drive wheel
6 Castor
7 Caregiver brake
8 User brake
9 Push bar
10 Tip protector
11 Leg rest
12 Calf support
13 Foot rest
14 Armrest, side support
15 Balance plate

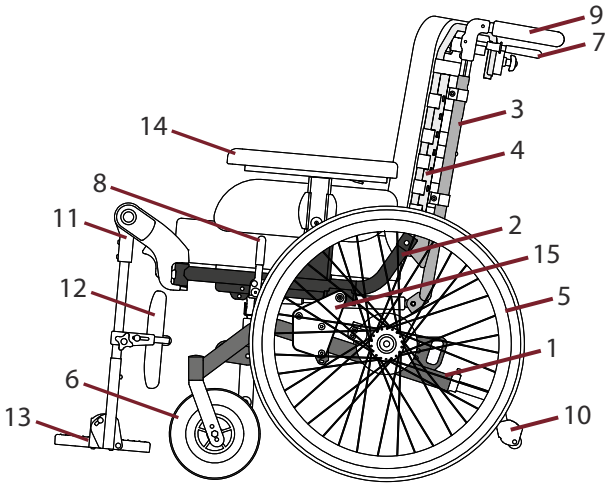


Figure 2. The parts of the wheelchair

2.6 Delivery inspection

Always do the following on delivery:

- Check that the wheelchair does not have any visible damage.
- Report any shipping damage to the transport company immediately.

Follow the unpacking instructions that come with the delivery. This may be supplemented with further instructions depending on the how the wheelchair is equipped.

2.7 Symbols and markings

The following markings are on the wheelchair. For more detail see document *Labelling*, doc.nr. 97760-1.



Model label. Shows that the model is HD Force, as well as the wheel size and seat width of the wheelchair.



CE-marking. Shows that the wheelchair is a CE marked medical device and who the manufacturer is. SN stands for Serial Number and REF for article number.



Parking brake. Shows how the sleeve on the brake lever is moved to activate the parking brake.



Transport attachment. Marks the anchor points for transport.



Max user weight. Shows the maximum user weight for the wheelchair.



ISO 7176-19. Shows that the wheelchair meets the requirements for use as a seat in a motor vehicle.

Attention required. Wheelchairs with alternate configuarations or are equipped with accessories that carry increased or different risks are marked with this symbol.

3. FUNCTIONS AND SETTINGS

3.1 Brakes

HD Force is equipped with combined service- and parking- disc brakes that can be activated by both the caregiver (1 in Figure 3) and the user (2 in Figure 3).

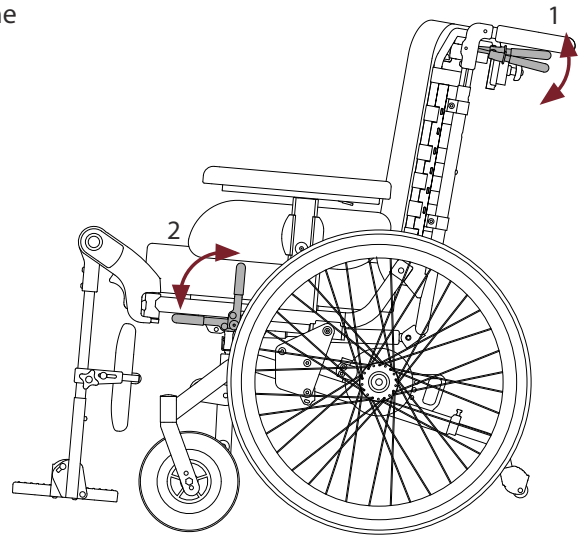


Figure 3. Caregiver brakes and user brakes

CAREGIVER BRAKES

The brakes are activated by the caregiver behind the wheelchair by pushing the handles (Figure 4) up towards the push bar. Holding the brake handles slightly pressed achieves a braking effect, for example when moving downhill.

The parking brake is activated by pressing the brake handles up towards the push bar and then moving the locking sleeve (**a** in Figure 5) forward so that the brake handle is locked in place.

NOTE: Make sure the locking sleeve is pushed forward sufficiently so that it sits securely.

NOTE: Always use both left-hand and right-hand parking brakes together.

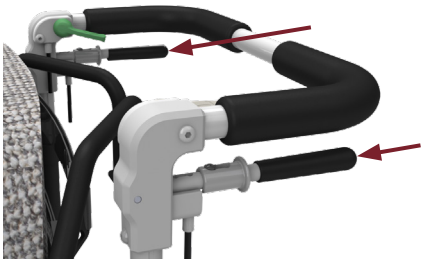


Figure 4. Brake handles

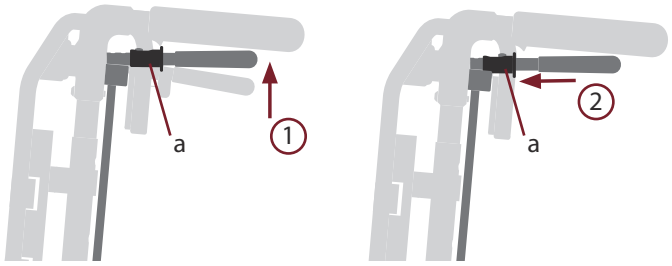


Figure 5. Parking brakes

USER BRAKES

The user can engage the brakes by moving the brake levers forward from the wheels. The brakes are released by moving the brake levers back towards the wheels.

⚠ - Parking brakes are not suitable for use when the wheelchair is on a surface that slopes more than 7°.

⚠ - Adjustment of the disc brakes should only be done by a qualified technician.

3.2 Wheels

HD Force is equipped with either 24" or 16" drive wheels depending on model and design. All drive wheel tyres are solid Flexel as standard and equipped with quick releases. The castors are 200 mm as standard.

Alternatively, the wheelchair can be equipped with pneumatic tyres.

REMOVING THE WHEEL:

- Press the lock button (1 in Figure 6) on the top (HD Force 24) or the bottom (HD Force 16) of the wheel mount, pull off the wheel.

MOUNTING THE WHEEL:

- Insert the axle (3) in the wheel mount housing (2), see Figure 6.
- Press the lock button (1) on wheel mount.
- Press the wheel so that the three pins on the hub fit in to the three holes in the brake disc.
- Release the lock button and check that the wheel is secured by pulling on it.

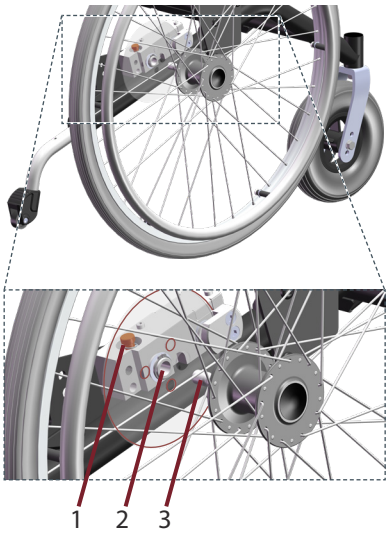


Figure 6. Wheel removal

- Make sure the lock button has slid out and the wheel is fixed.
- Be careful not to allow the user's hands to go in to the wheels.
- Be aware that certain items of clothing are not suitable as they may get caught in the wheels. Be especially careful with scarves and similar items that can tighten around the user's neck if caught.
- If pneumatic tyres are equipped the recommended air pressure is indicated on the tyres, normally 300 kPa.

3.3 Tip protectors

Tip protectors are standard equipment on HD Force and should always be used. The tip protectors can be set in three positions by means of a snap lock, see Figure 7. The snap lock is released by pulling the pin (1, Figure 7). It is possible to temporarily turn up the tip protectors temporarily, for example when passing over a curb, see Figure 8.

The tip protector can also be used as a tipping bar, providing resistance for the operator's foot when the wheelchair is tipped back on the rear wheels. The antitip devices are slightly different between the 24" and 16" models.



Figure 7. The 3 positions for the tip protectors

- Always ensure that the snap lock locks firmly into place so that the antitip device is locked.
- Make sure that correct model of tip protector is used for the wheelchair. They are marked with name and article number.



Figure 8. Tip protector turned up

3.4 Push bar

HEIGHT ADJUSTMENT OF THE PUSH BAR:

- Grip the push bar with one hand.
- Press in one snap lock (1 in Figure 9) and pull the push bar up on the same side.
- Hold the bar up and push the second snap lock (2).
- Set the push bar to the desired position.
- Ensure that both snap locks have sprung out into the holes.
- Check brake and control cables run freely and have not been damaged. They should run along the back tubes.



Figure 9. Push bar release buttons

3.5 Cushions and covers

Seat and back cushions are attached with velcro and are easily removable and interchangeable.

- Check cushions regularly according to the maintenance instructions. Worn out cushions can cause pressure ulcers.

POSITIONING THE SEAT CUSHION:

- Align the cushion over the seat plate and place it straight down. The back of the cushion is labelled. The underside is flat.
- Check that the cushion sits securely.

REMOVING THE SEAT CUSHION:

- Grasp the front edge of the cushion and pull straight up.

POSITIONING THE BACK CUSHION:

- Fully release the top strap of the Flexi-back (2 in Figure 10)
- Attach the straps (3) at the top of the cushion around the Flexi back's tubes (1) with velcro as shown. Securing the cushion vertically reduces the risk of the cushion sliding down when moving in to and out of the wheelchair.
- Pivot the cushion downward and press firmly against the back (Figure 11).
- Check that the cushion is placed correctly and sits securely.
- Reset the top strap of the Flexi-back, preferably with the user seated.

REMOVAL OF BACK CUSHION:

- Pull up on the lower edge of the cushion
- Loose the straps at the top.

REMOVABLE COVER

Both the seat and back cushion covers are fitted with a zipper for easy removal and replacement. Washing instructions are on the label.

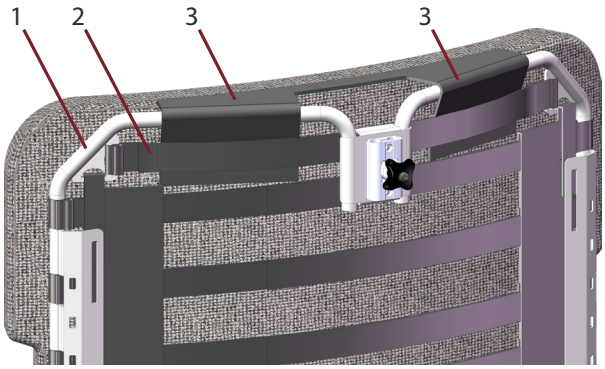


Figure 10. Straps fastened around Flexi-back

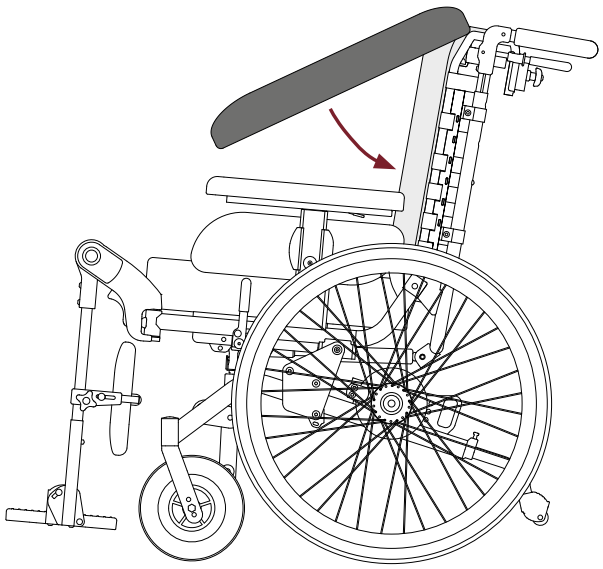


Figure 11. Setting the back cushion

3.6 Seat tilt and Back recline

Figure 13 shows the wheelchair in back reclined and seat tilted positions.

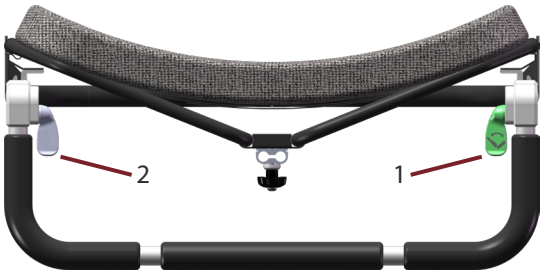


Figure 12. Controls for seat tilt (1) and back recline (2)

- The controls should be handled with moderate force and should always be used one at a time, **never** both at the same time.
- Never hang items on the levers.

SEAT TILT

The seat tilt is controlled by the green lever on the right side of the push bar, **1** in Figure 12. The seat can be tilted continuously between 0° and 20°.

Two gas cylinders provide supporting force when tilting backward. Note that the seat will feel heavy to tilt forward if no one is sitting in the wheelchair.

OPERATING THE SEAT TILT:

- Grip the push bar with both hands.
- Release the lock by pressing the green lever down gently, hold it down.
- Push on the push bar to set the desired seat tilt, release the green lever.

BACK RECLINE

The back recline angle is controlled by the grey lever on the left side of the push bar, **2** in Figure 12. As standard the back can be reclined continuously 30°, between 90° and 120°. A gas cylinder provides supporting force when raising the back. Note that this means the back will feel heavy to recline backward if no one is sitting in the wheelchair.

OPERATING THE BACK RECLINE:

- Grip the push bar with both hands.
- Release the lock by pressing the grey lever down gently, hold it down.
- Push on the push bar to set the desired back recline angle, release the grey lever.

- Risks exist for some accessories when adjusting recline angle, for example pinching towards the table when raising the back. Similar risks also appear for belt, pommel and hemiplegic armrest.

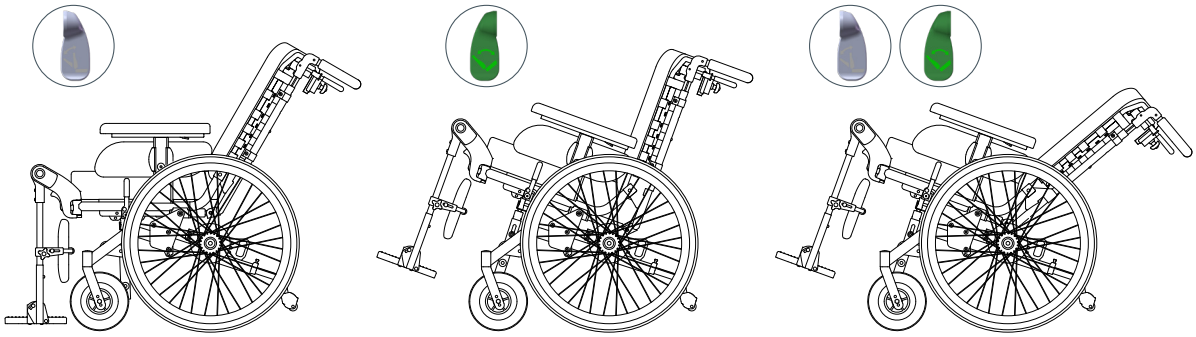


Figure 13. Three positions: Max back recline, max seat tilt, and both recline and seat in max position

3.7 Backrest Height

The backrest height can be adjusted approximately 5 cm in the tracks where the back support is secured. This requires a 10mm spanner.

As an alternative for tall users there is an extended backrest that is 10cm higher than standard.

HEIGHT ADJUSTMENT OF THE BACKREST:

- Loosen the two nuts on each side a few turns (1 in Figure 14).
- Push the backrest up or down to the desired height.
- Tighten the nuts securely.
- Check carefully that all cables are whole and in place.



Figure 14. Nuts for height adjustment

If the backrest needs to be even higher, the four clamps the Flexi-back is attached to are moved upward along the back frame tubes. This makes the backrest position 25 mm higher. Steps:

- Loosen the four back clamps by loosening the screws a few turns (Figure 15).
- Push the back clamps carefully along the back frame tube to the desired position. Some risk of damage to the paint finish exists. *Note that the top position for the push bar becomes unusable because the snap hole is covered.*

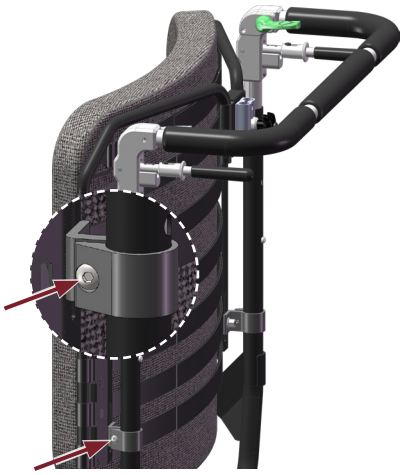


Figure 15. Back clamp screws

3.8 Setting the Flexi-back

Guide for setting the Flexi-back:

1. *Before the user sits in a wheelchair;*

- Release the velcro straps of the Flexi-back.
- Pull the back cushion off the velcro straps, leaving it attached to the top of the Flexi-back. Fold the back cushion lengthwise. Hold it folded and push it back against the straps. Release.
- Make sure the back cushion is properly positioned in the chair. See instructions under ***3.5 Cushions and covers***.
- Loosen the nuts for height adjustment of the Flexi-back.

2. *Positioning the user;*

- When lifting the user, tilt the wheelchair's seat unit backwards. In some cases it is also helpful to recline the backrest slightly.
- Position the user well into the wheelchair, between the side tubes of the Flexi-back. This is required to form the Flexi-back to the user's back.
- **Note**: The user's position affects the driving and tilt characteristics of the wheelchair, especially with a heavy user.

3. *With the user sitting in the wheelchair;*

- Set the backrest at the desired height.
- Tighten the nuts for the seat back height adjustment.
- Adjust the velcro straps to support the user's back.

3.9 Adjustable seat depth

The depth of the seat plate can be continuously adjusted in a 10 cm range. It is secured by two knobs under the seat.

SETTING SEAT DEPTH:

- Loosen the two knobs a few turns (Figure 16).
- Slide the seat plate to the desired position.
- Firmly tighten the two knobs.
- Check that the seat plate is securely locked.

The seat plate can be pulled out, for maintenance reasons, by removing the knobs completely.



Figure 16. Seat plate knobs

3.10 Armrests

Armrests are placed in mounts on each side of the seat (Figure 17). They can be adjusted in height and depth.

Components, see Figure 18:

1 Armrest pad
2 Side support
3 Locking button
4 Locking lever

HEIGHT ADJUSTMENT:

- Push the button (3 in Figure 18) and hold it in.
- Set the desired height. The post is marked with 1 cm intervals.
- Release the button and pull lightly on the armrest pad so the lock snaps in place.

DEPTH SETTING:

The armrest pad can be adjusted to six depth settings as standard. It may not be possible to use the rearmost positions if the wheelchair has a special design, such as a wider Flexi-back.

- Press the locking lever (4 in Figure 18) and set the desired position.
- Release the locking lever.
- Make sure the armrest pad is locked in position by pulling lightly on it.

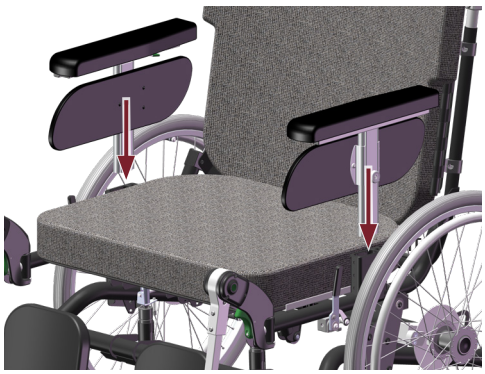


Figure 17. Armrests are inserted into the brackets on each side of the frame

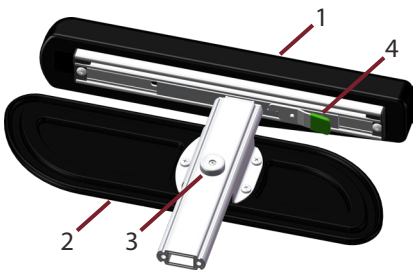


Figure 18. Armrest components

3.11 Leg rests

FIXED-ANGLE LEG RESTS

Fixed-angle leg rests are available in two versions, 90° and 105°.

Components, see Figure 19:

1 Knee joint
2 Leg rest tube
3 Locking lever, leg rest removal
4 Snap lock, footrest height adjustment

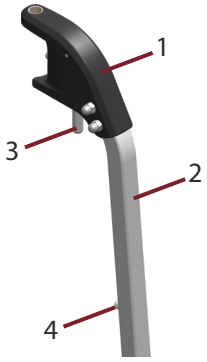


Figure 19. Fixed-angle leg rest

MOUNTING FIXED-ANGLE LEG REST

- Align the hole in the knee joint over the peg and let the knee joint slide down (Figure 20). It may be easier if the lever (1) is pressed forward.
- Release the lever and rotate the leg rest to point straight ahead, make sure that the locking pin clicks in and locks the knee joint.

REMOVAL OF FIXED-ANGLE LEG REST

- Grip the leg rest and move the lever (1 in Figure 20) forward.
- Lift off the leg rest.

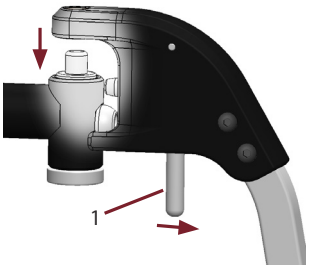


Figure 20. Mounting of leg rest

TURNING OUT LEG RESTS

If the wheelchair is equipped with separate footrests and separate calf supports the leg rests can be turned out for better access in and out of the chair. Grip the knee joint from above and press the locking lever, then turn the leg rest out (Figure 21).



Figure 21. Turning out legrest

ANGLE ADJUSTABLE LEG RESTS

The wheelchair may be equipped with angle adjustable leg rests. They can be angled between 90° (straight down) and 180° (straight out) with 10° steps (a total of 10 positions).

Components, see Figure 22:

1 Release button, angle adjustment
2 Knee joint
3 Turnable link
4 Locking lever, leg rest removal
5 Leg rest tube
6 Snap lock, footrest height adjustment

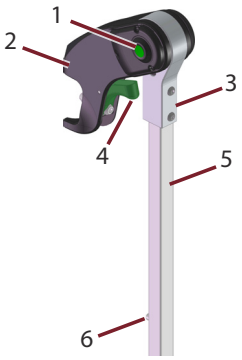


Figure 22. Angle-adjustable leg rest

MOUNTING ANGLE ADJUSTABLE LEG REST

- Grip the knee joint and press the locking lever (1 in Figure 23).
- Move the knee joint just above the mount on the wheelchair.
- Align the knee joint with the peg and slide it down (2).
- Ensure that the locking pin clicks in.

REMOVAL / TURNING OUT OF ANGLE ADJUSTABLE LEG RESTS

- Grip the leg rest from above and press the lever in (1 in Figure 23).
- Lift off the leg rest.

If the wheelchair is equipped with separate footrests and separate calf supports the leg rests can be turned out for better access in and out of the chair. Grip the knee joint from above and press the locking lever, then turn the leg rest out (Figure 21).

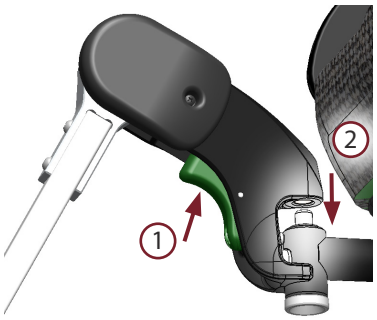


Figure 23. Mounting of leg rest

ANGLE ADJUSTMENT OF LEG RESTS

- Grip the leg rest tube at the bottom (1 in Figure 24). Lift slightly to ease the pressure on the locking mechanism.
- Push button on the outside of the knee joint (2) and move the leg rest to the desired position (3).
- Release the button and move the leg rest in either direction so that the mechanism snaps into a locked position.

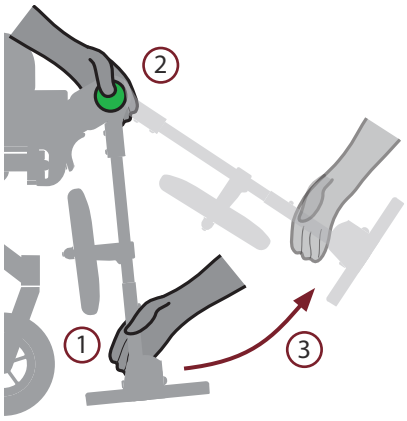


Figure 24. Angling of leg rest

3.12 Calf supports

DEPTH SETTING OF ONE PIECE CALF SUPPORT

- Loosen the lock nut a few turns (1 in Figure 25) on both sides.
- Slide the calf support to the desired position.
- Tighten the nuts securely.

HEIGHT ADJUSTMENT OF ONE PIECE CALF SUPPORT

- Loosen the knob (2 in Figure 25) on both sides.
- Slide the calf support to the desired position.
- Tighten the knobs securely.

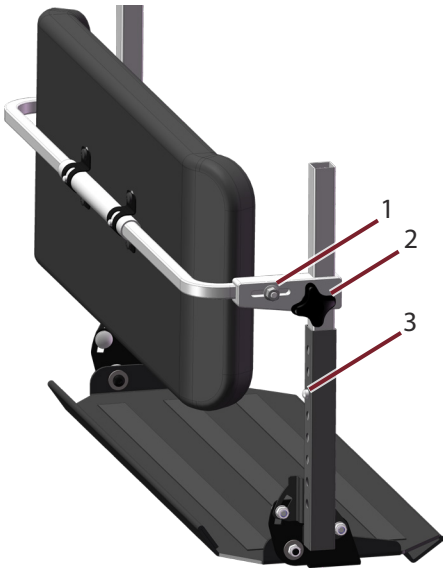


Figure 25. One-piece calf support

DEPTH SETTING OF SEPARATE CALF SUPPORT

- Loosen the lock nut a few turns (1 in Figure 26)
- Slide the calf support to the desired position.
- Tighten the nut securely.

HEIGHT ADJUSTMENT OF SEPARATE CALF SUPPORT

- Loosen the knob (2 in Figure 26).
- Slide the calf support to the desired position.
- Tighten the knob securely.

LATERAL ADJUSTMENT OF SEPARATE CALF SUPPORT

- Loosen the screw a few turns (3 in Figure 26).
- Slide the calf support to the desired position.
- Tighten the screw.

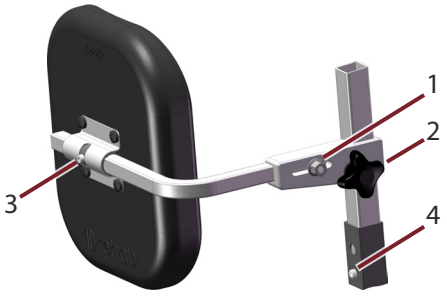


Figure 26. Separate calf support

3.13 Footrests

HEIGHT ADJUSTMENT OF ONE-PIECE FOOTREST

Push in the snap locks (1 in Figure 27) on both sides and move the footrest to the desired position.

ANGLE ADJUSTMENT OF ONE-PIECE FOOTREST

- Loosen the lock nuts (2 in Figure 27) on both sides.
- Move the footrest to the desired angle.
- Tighten the nuts securely.

FOLDING UP ONE-PIECE FOOTREST

The foot plate can be folded up to make it easier to get in-to and out-of the wheelchair (Figure 27).

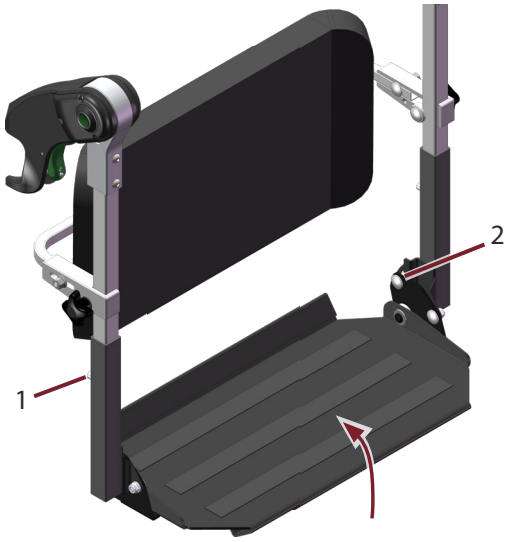


Figure 27. One piece footrest

HEIGHT ADJUSTMENT OF SEPARATE FOOTRESTS

Push in the snap lock (1 in Figure 28) and move the footrest to the desired position.

ANGLE ADJUSTMENT OF SEPARATE FOOTRESTS

- Loosen the bolt (2in Figure 28).
- Move the footrest plate to the desired angle.
- Tighten the bolt securely.

FOLDING UP SEPARATE FOOTRESTS

The foot plate can be folded up to make it easier to get in-to and out-of the wheelchair (Figure 29).

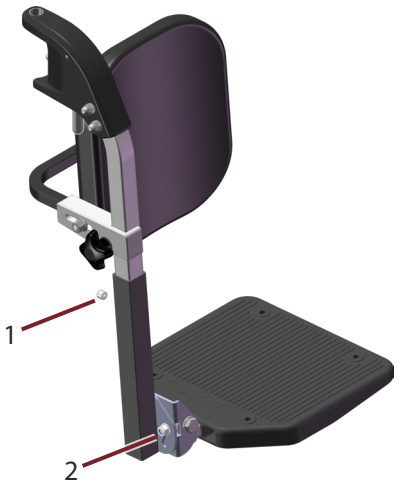


Figure 28. Separate footrest

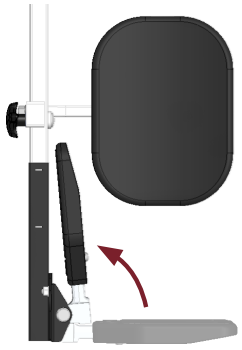


Figure 29. Folding up the footrest

4. ACCESSORIES

The following sections briefly describe the accessories that are available for HD Force. They are all CE-marked and approved for use with the wheelchair. More information about each accessory is available on the respective information sheet. Instructions for installing each accessory are found on the respective accessory assembly instructions. More info is available at hdrehab.com.

⚠ - Never use accessories that are not approved for HD Force. The wheelchair is then considered a specially adapted product. Read more in ***2.2. General safety aspects***.

4.1 Headrest and Neck Rest

Headrests (Figure 30) and Neck rests consist of two parts, a mounting profile (1) and a cushion (2) with a mount. The cushion somewhat smaller for the Neck rest than the Headrest.

The mounting profile is placed though the bracket on the backrest (3 in Figure 30) and secured in place by tightening the knob (7).
Note: Over-tightening the knob may cause damage.

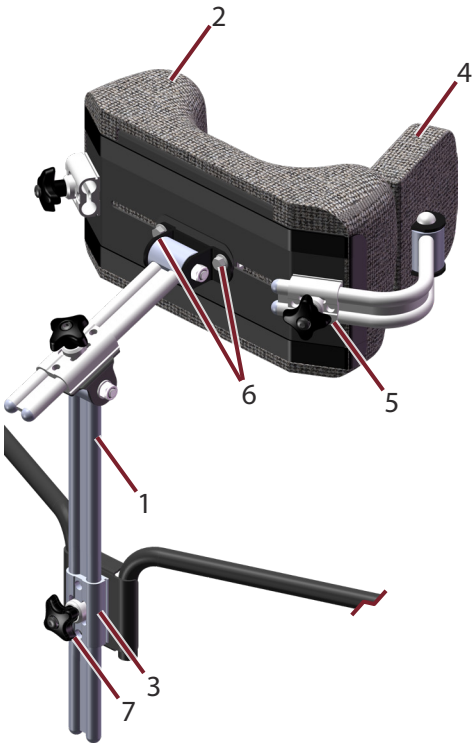


Figure 30. Headrest components

LATERAL ADJUSTMENT

Some headrest models can be adjusted laterally to suit the user.

- Loosen the bolts (6 in Figure 30)
- Move the headrest to the desired position, tighten the bolts.

The cushion is shaped to provide support at the base of the skull so that the head can be positioned in a balanced and comfortable position.

SIDE SUPPORTS FOR HEADREST AND NECK REST

Some models of headrest and neck rest can be equipped with one or two removable side supports (4 in Figure 30) to increase lateral stability. In this case the back of the main headrest comes with two mounts (5) to adjust the positions of the side supports.

⚠ - Do not hang things on the headrest, it will increase tipping risk.
- For users with particular/involuntary movements there is a risk of getting caught between the headrest and the wheelchair. An individual assessment must be done to determine what type of headrest is suitable for the user.

4.2 Bag hook

The bag hook (Figure 31) is mounted on the back frame. The hook is clamped to the tube by tightening a screw.

The maximum load for each hook is 5 kg. The total load when two hooks are used should not exceed 5 kg as tipping risk is significantly increased.

Always be careful that no parts of the wheelchair are damaged with the use of a bag hook, particularly the brake and control cables.


Figure 31. Bag hook

4.2 Thoracic support

The thoracic support is mounted by inserting the profile (1 in Figure 32) in the thoracic support mount (2) on the backrest. It is secured at the desired position with a knob (3). **Note**: Do not tighten too hard, the knob and mount can be damaged.

Thoracic support is available with or without Swing-away function. With Swing-away the cushion can easily be swung off to the side by pushing the button (4). **Note**: If the user presses heavily against the support the button is difficult to push.

The removable cover is attached with velcro. Washing instructions are on the label.

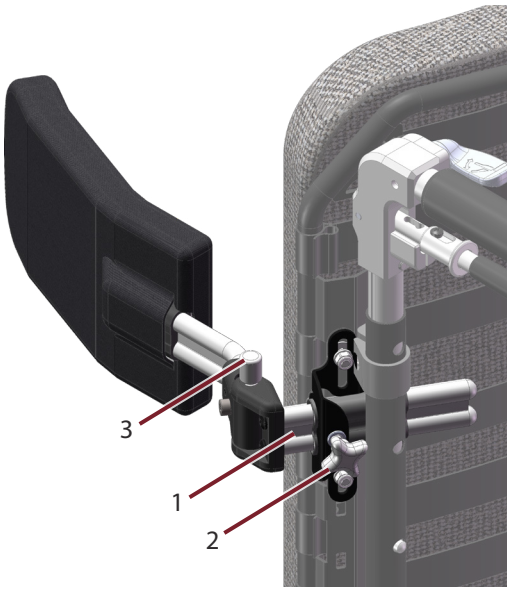


Figure 32. Thoracic support with mount

SETTINGS

The thoracic support can be adjusted in height and depth to create a good fit against the body. Some models also allow adjustment of the shape of the cushion. See the Thoracic support user manual for details.

- Note that the use of the thoracic support requires careful adjustment to ensure the user receives good support and that the thoracic support does not cause pressure that can lead to injury.
- Avoid placing the thoracic support near the armpit as the area is generally considered to be intimate and pressure sensitive.

4.3 Belt mounts

To position the user in the wheelchair a belt can be used. HD Force can be equipped with belt mounts at the thighs (1 in Figure 33) and at the hips (2). Always follow instructions in the manual for the belt in use.

MOUNTS FOR 2-POINT BELTS

2-point belts are attached to two belt mounts, one on each side. The mounting points can be at the thighs or at the hips, depending on the needs of the user. It is important that the mounts be placed correctly so the user is well positioned. They should be installed by qualified personnel.

MOUNTS FOR 4-POINT BELTS

4-point belts are attached to four belt mounts, two on each side. It is important that the mounts be placed correctly so the user is well positioned. They should be installed by qualified personnel.

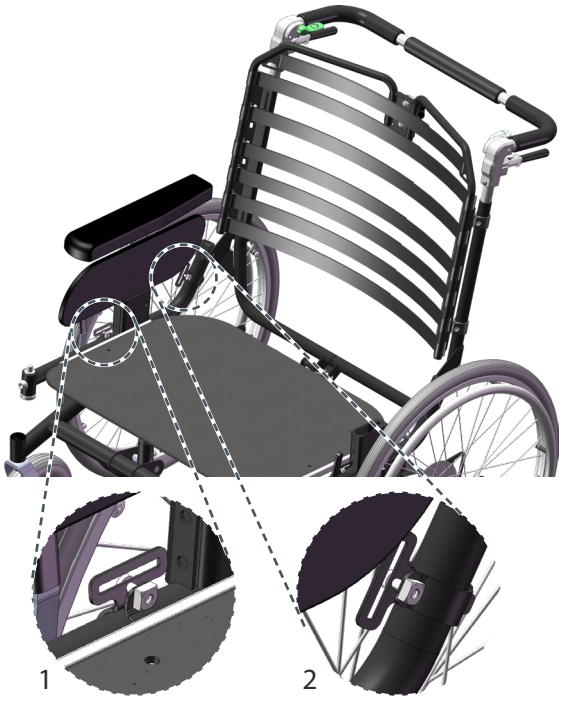


Figure 33. Belt mounts

- There may be local restrictions on use of belts.
- Individual information about the use of a belt must be received from the prescriber for each user.
- Be alert when using of positioning belt. There is a risk of the user sliding down in the chair and getting stuck in the belt if it is incorrectly installed or poorly fastened. This can lead to impaired blood or oxygen supply and risk of the user choking.
- Always make sure that the belt is securely fastened when in use.
- If possible, tighten the belt with the user in an upright position. If the belt is tightened when the back is reclined there is a risk of pinching when the back is raised up.
- Be aware of loose belts, they can get caught in the wheels and cause a sudden stop or pinching.

5. TRANSPORT

5.1 Vehicle transport with user seated in wheelchair

HD Force conforms to the requirements of ISO 7176-19 for use a seat in a motor vehicle. When transporting in a vehicle HD Force must be fixed in placed and the user must use the vehicle's 3-point safety belt. Both the system for affixing the wheelchair and the safety belt must be approved per ISO 10542-2. All transportation must be done with the wheelchair facing forward, see Figure 34.

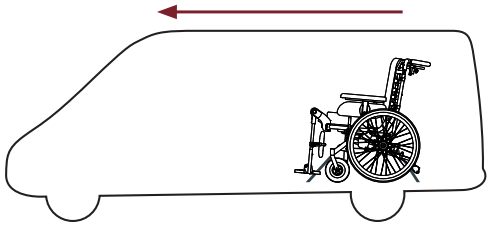


Figure 34. All transport must be forward-facing

THE FOLLOWING MUST BE CONSIDERED BEFORE TRANSPORT:

- Whenever it is feasible the user should transfer to the vehicle seat and use the vehicle-manufacturer installed restraint systems.
- Tray table, thoracic support, and other accessories must be removed and secured separately.
- A headrest must be used.
- The seat of the wheelchair should be tilted 5-10° back and the backrest should be slightly reclined (approximately 100°).
- The wheelchair leg rests must be angled down as much as possible.

⚠ - The user must always use the vehicle's 3-point safety belt. Any positioning or safety belts that are mounted on the wheelchair are not to be used as substitutes for seat belts when travelling in vehicles. See section 5.1.3 for information on the correct positioning of occupant belt restraints.

HD Force is crash tested according to ISO 7176-19:2008 (see Section 9.1 there), which means that it has been tested and passed the requirements of a standard test. The test simulates a frontal collision at 48 km/h with a test dummy weighing 77 kg. The standard specifies a minimum requirement for what the wheelchair must withstand regarding transport in a vehicle. Since an actual incident is likely to be different than the conditions at the time of testing, HD Rehab does not accept any responsibility for the outcome of an accident in which HD Force is involved. Should HD Force be involved in any type of vehicle collision it must be evaluated by HD Rehab to determine whether it is still suitable for use.

The crash test for HD Force was performed using the MADS docking system from Dahl Engineering. See Section 5.1.1 for details on using this system to secure HD Force in a vehicle. Alternatively HD Force can be secured using a 4-point belt system, see section 5.1.2.

5.1.1 Vehicle transport, Dahl docking system

When HD Force is equipped with a Dahl docking system a label will be present on the rear cross tube of the wheel frame, see Figure 35. The height noted on the label indicates the value that the docking unit must be set to. Failure to set/install the docking unit to the correct height might impede the locking plate from sliding smoothly into the docking unit or prevent the docking station and wheelchair from connecting.

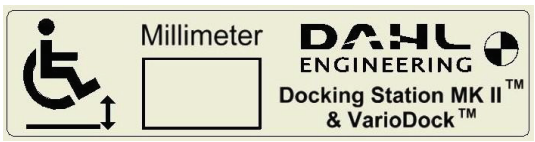


Figure 35. Label for Dahl docking system

Note: For instructions on outfitting HD Force with a Dahl docking system see the user manual appendix *Assembly Instructions - Dahl docking system*, document number 97702-1.

ATTACHING THE DAHL DOCKING CONSOLE TO THE WHEELCHAIR

- Place the plastic rolls into the hook openings on both sides and pull the console back until the plastic rolls glide into the bottom of the hooks on both sides (Figure 36).
- When the plastic rolls are sitting correctly in the hooks, swing up the console with the two red tube locks into the locking brackets on both sides (Figure 37).
- When the screw heads (in the ends of the red locking plungers) are positioned correctly, the spring-loaded red locking mechanisms must plunge into the sockets of the locking brackets (Figure 38).

NOTE: The locking tube is not secure until the ends of the red locking plungers are fully inserted into the sockets of the locking brackets. When locked the ends will no longer be visible. Check that it has been completely locked by pushing the red locking plungers completely out towards the sockets (Figure 38).

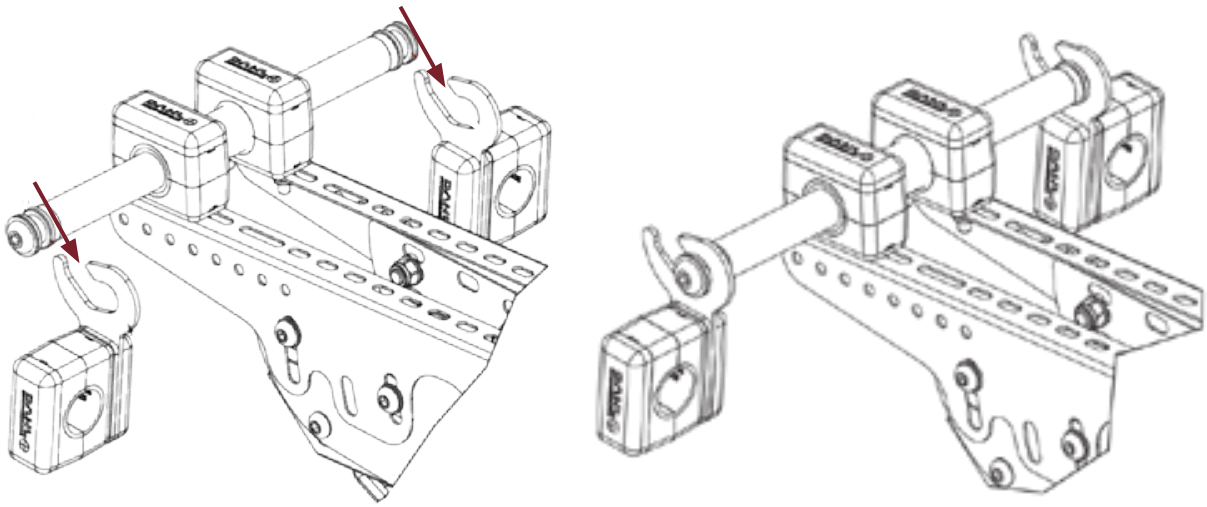


Figure 36. Plastic rolls of console placed into hook openings

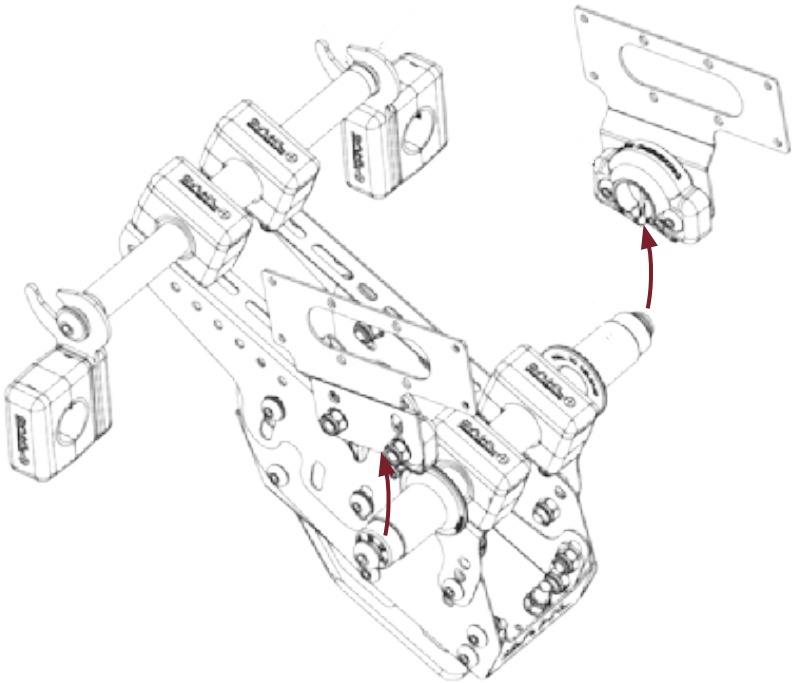


Figure 37. Swinging the console up into the locking brackets

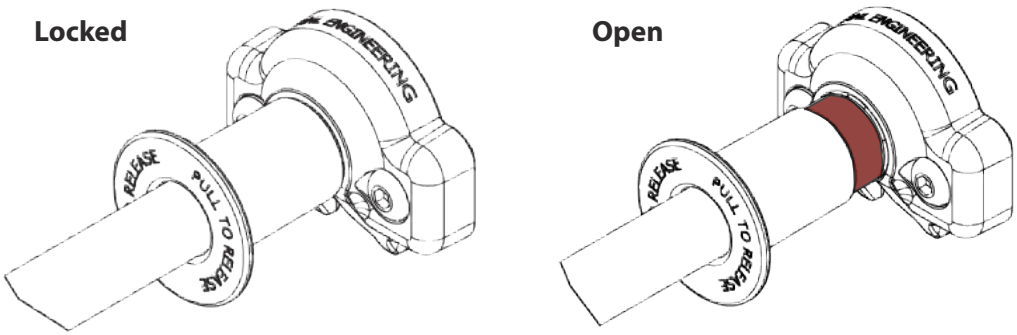


Figure 38. Locking plungers in locked and open positions

To release the console carry out the same steps in reverse, after the red springloaded locking plungers have been unlocked by sliding them inwards towards each other (Figure 39).

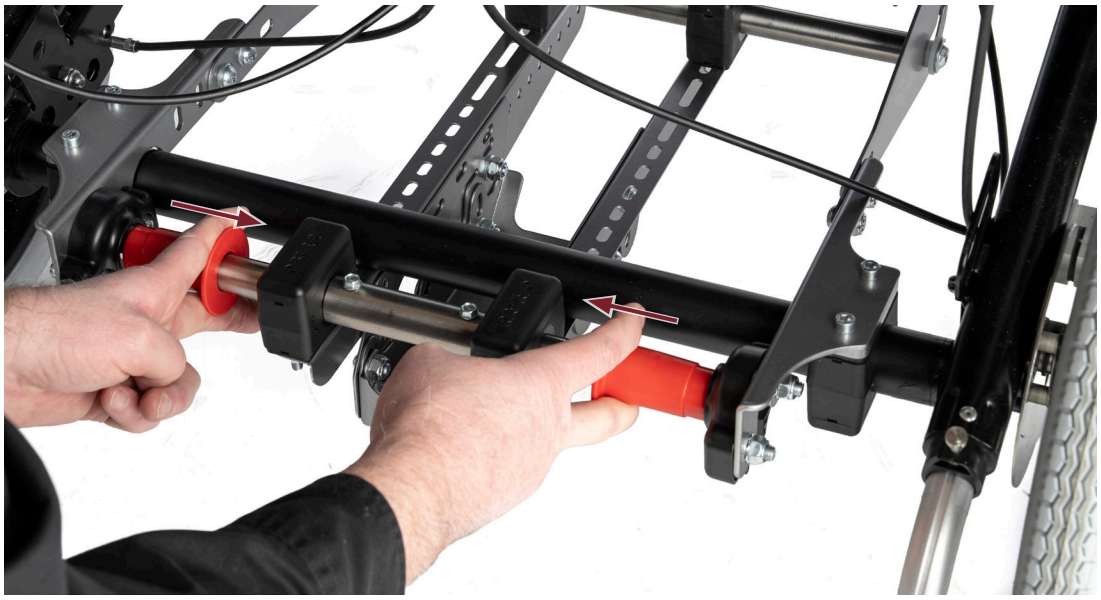


Figure 39. Releaseing the locking plungers

COMPONENTS OF THE DAHL MK II DOCKING STATION

The Dahl MK II docking station is installed in the vehicle with a fixed height.

Components, see Figure 40:

1 Docking station
2 Lock plate
3 Lock pin
4 Control panel
5 Red indicator LED
6 Green indicator LED
7 Release button
8 Emergency release lever
9 Manual operating lever

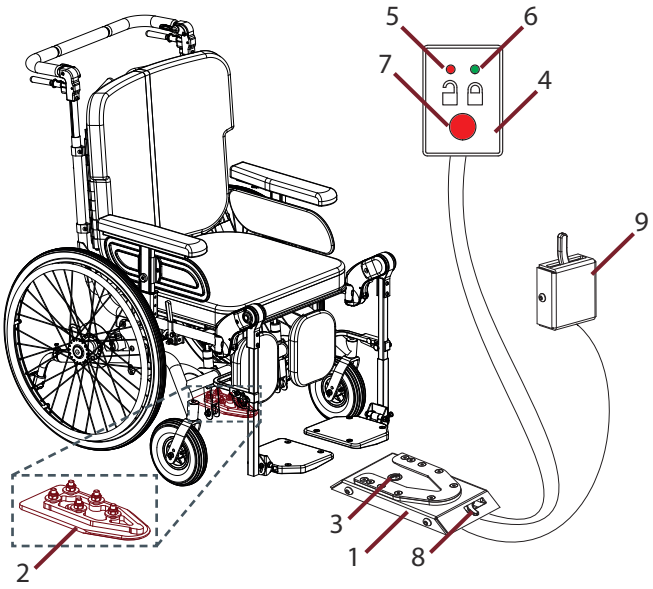


Figure 40. Dahl MK II

COMPONENTS OF THE DAHL VARIODOCK DOCKING STATION

The Dahl VarioDock docking station can be adjusted to the appropriate height for the wheelchair being transported.

Components, see Figure 41:

1 Docking station
2 Lock plate
3 Lock pin
4 Control panel
5 Red indicator LED
6 Green indicator LED
7 Release button
8 Emergency release lever
10 Control module
11 Upwards adjustment (yellow)
12 Downwards adjustment (green)
13 Pull down to remove slack (blue)
14 Current height measurement
15 Maintenance required LED

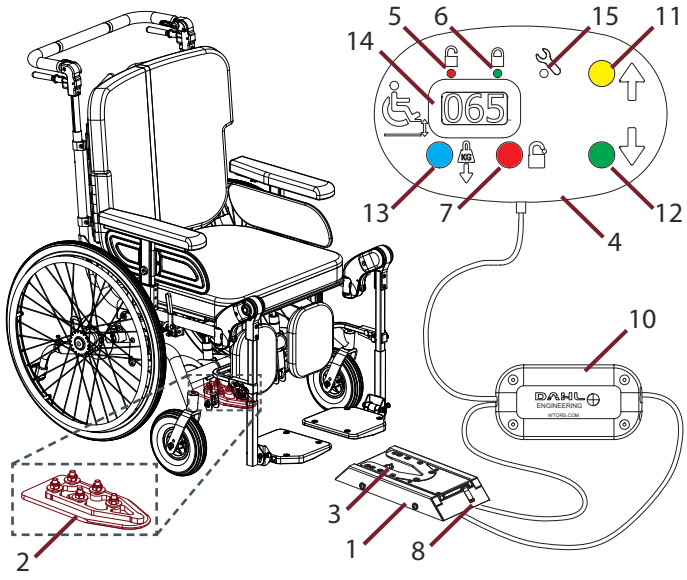


Figure 41. Dahl VarioDock

SECURING THE WHEELCHAIR IN THE DOCKING STATION

- Centre the wheel chair in line with the docking station and slowly push forward, straight over the docking station. The lock plate (2 in Figures 40 and 41) helps to guide the wheelchair into place.
- As soon as the locking plate comes into contact with the lock pin (3), a warning tone will sound and the red indicator LED (5) in the control panel will light up.
- When the lock plate is fully engaged in the docking station, the lock pin (3) automatically secures the lock plate. The warning tone will stop, the red indicator LED (5) will turn off, and the green indicator LED (6) will light up.

⚠ - Always check if the lock plate is properly engaged in the docking station by trying to reverse the wheelchair out of the docking station before moving the vehicle.

RELEASING THE WHEELCHAIR FROM THE DOCKING STATION

- Press forward on the wheelchair to release pressure on the lock pin (3 in Figures 40 and 41)
- Press the red release button (7) in the control panel and reverse the wheelchair out of the docking station. Do not attempt to reverse out of the docking station until the red indicator LED (5) on the control panel has been illuminated.

In the event of electrical failure the emergency release lever (8 in Figures 40 and 41) is located at the front edge of the docking station. Push the wheelchair forward to release pressure on the lock pin and push the red release arm, holding it while the wheelchair is reversed out of the docking station.

A cable-activated manual operating lever (9 in Figure 40) may also be fitted (optional). The red release arm must be pushed and held while the wheelchair is reversed out of the docking station.

If the described manual release procedures fail, a red emergency release tool comes with each docking unit. First push the wheelchair forward to remove the pressure on the lock pin. Then place the emergency release tool in the gap between the locking plate and the docking station, see Figure 42. Push the release tool and wheelchair forward until the locking pin has been forced down, after which the wheelchair can reverse out of the docking station.

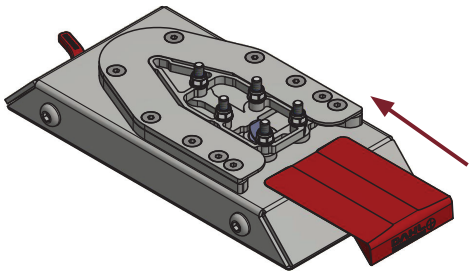


Figure 42. Emergency release tool

5.1.2 Vehicle transport, 4-point tie-down system

When strapping down the wheelchair, the rear tension device is attached to the intended mounts on the wheel frame, see Figure 46. Depending on the model, the front tension device is attached either around the cross tube of the wheel frame (Figure 44) or to the intended mounts (Figure 45). All attachment points are marked with the tie-down symbol seen in Figure 43.



Figure 43.
Tie-down symbol



Figure 44. Front tensioning (some models)



Figure 45. Front tensioning (some models)



Figure 46. Rear transport mount

⚠

- **Do not use excessive tension**. Tensioners should only be tightened so that the wheelchair is stable. Any rocking may **not** be offset by tightening the straps tighter. Tensioning devices can create excessive loads on the wheels and frame components and thereby damage the wheelchair.
- No other attachment points than those specified may be used.

TIE-DOWN STRAP ANGLES

When fitted the tie-down straps should fall within the preferred angles as seen in Figure 47.

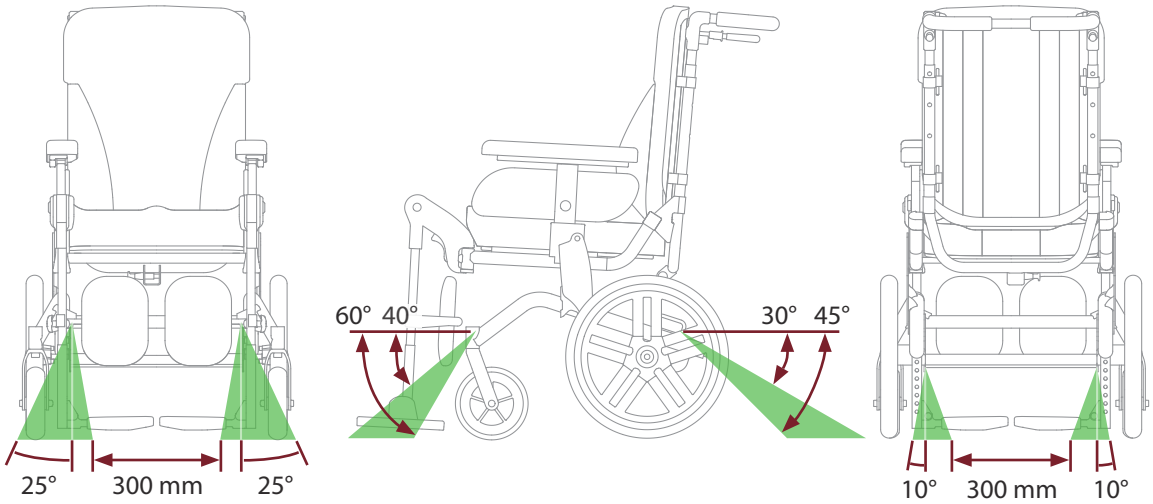


Figure 47. Preferred angles for tie-down straps

5.1.3 Occupant belt restraints

The vehicle's 3-point safety belt must be used when transporting in a vehicle.

GENERAL OCCUPANT RESTRAINT INSTRUCTIONS:

- Use a 3-point occupant restraint system to secure the occupant.
- Both pelvic and upper torso restraint belts must be used to restrain the occupant to reduce the possibility of head and chest impacts with the vehicle components.
- Any wheelchair anchored occupant restraint such as 3-point belt, harness or postural supports (lap straps, lap belts) should not be used or relied on for occupant restraint in a moving vehicle, regardless if labeled ISO 7176-19, ISO 10542-1, SAE J2249 or any other. Always use a vehicle anchored and certified occupant restraint system.
- Use a suitable positioned headrest when transporting in a wheelchair.
- Occupant restraints should make full contact with the shoulder, chest, and pelvis. Pelvic belts should be positioned low on the pelvis near the thigh-abdominal junction (meeting the requirements specified in ISO 7176-19:2022).
- The upper torso restraint belt must fit over the midpoint of shoulder and across the chest as seen in Figures 49, 50, and 51.
- Restraint belts must be adjusted as tightly as possible consistent with user comfort.
- Restraint belt webbing must not be twisted when in use.
- Care should be taken when applying the occupant restraint to position the seatbelt buckle so that the release button will not be contacted by wheelchair components while driving or during a crash.
- Belt restraints must not be held away from the body by wheelchair components such as armrests or wheels (Figure 48).

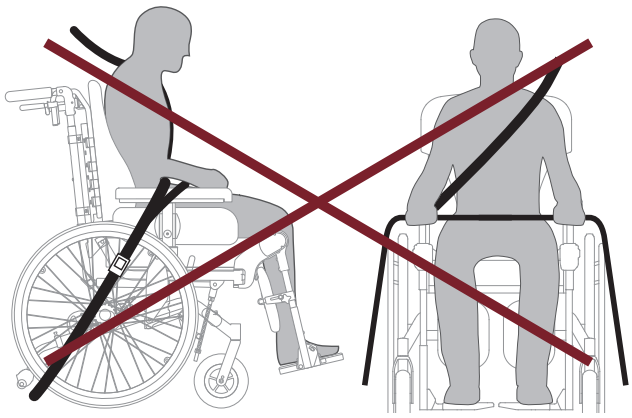


Figure 48. Improper belt restraint fit

- The pelvic restraint belt must be worn low across the front of the pelvis so that the angle of the pelvic belt is within the acceptable zone of 30° to 75° to the horizontal. A steeper angle (45° to 75°) is preferred, but it should never exceed 75°. See Figures 49 and 51.

PROPER BELT RESTRAINT FIT - DAHL DOCKING SYSTEM

Figures 49 and 50 show proper belt restraint fit when using a Dahl docking system.

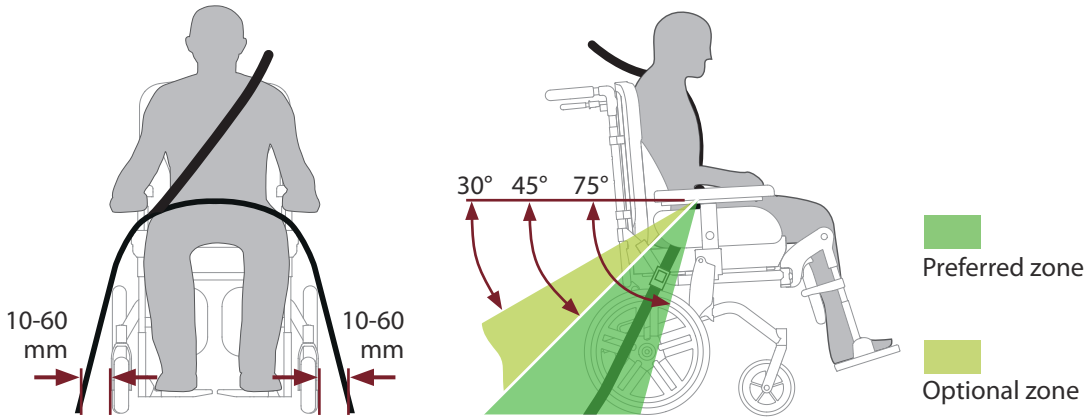


Figure 49. Spacing and angles for belt restraint, Dahl docking system

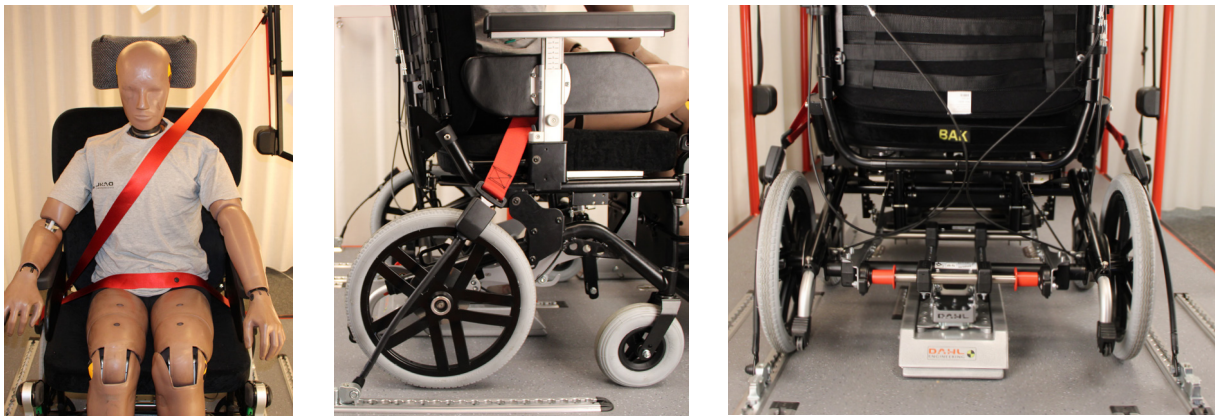


Figure 50. Proper belt restraint fit, Dahl docking system

PROPER BELT RESTRAINT FIT - 4-POINT TIE-DOWN SYSTEM

Figure 51 shows proper belt restraint fit when using a 4-piont tie-down system.

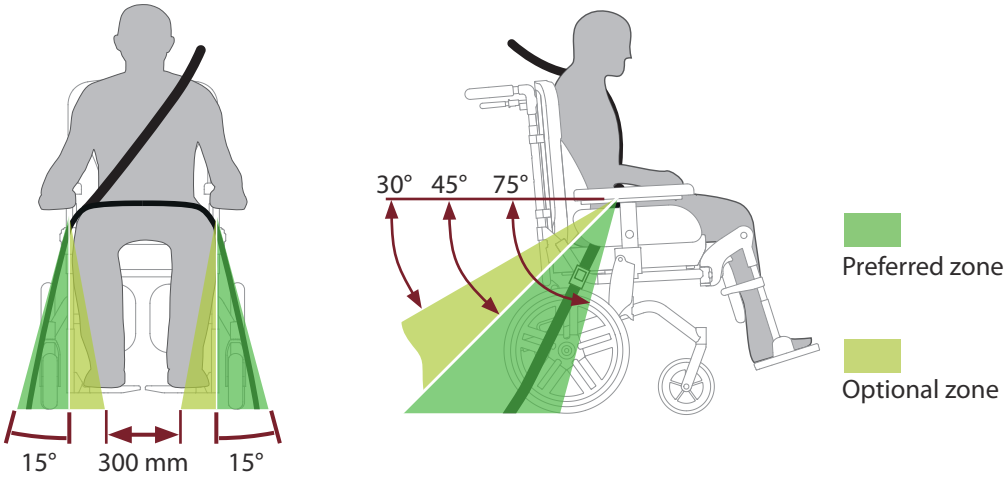


Figure 51. Spacing and angles for belt restraint, 4-point tie-down system

5.2 Folding the wheelchair for transportation

FOLDING OF WHEELCHAIR

- Tilt the seat unit to its most forward position.
- Remove the armrests and any accessories such as thoracic support and pommel, as well as cushions.
- Remove the leg rests (optional).
- Grasp the push bar with one hand and pull the locking pin, (1 in Figure 51). The gas spring (2) will then drop down from the mount (3) and the back can be folded forward against the seat, see Figure 53.
- The driving wheels may be removed to make the wheelchair smaller.

REASSEMBLY AFTER FOLDING

- Raise the back.
- Pull the locking pin (1), and fit the gas spring in the mount.
- Release the locking pin and see that it passes through the gas spring mounting hole and both plates of the bracket (3 in Figure 52).

CHECKLIST AFTER TRANSPORTATION:

- Make sure the locking pin (1) goes fully through the bracket (Figure 52).
- Check that the wheels are securely fastened.
- Make sure the tip protectors are positioned correctly.
- Check the most important functions; brakes, seat tilt, and back recline.

⚠ - If the pin is not properly mounted, the bracket can break and the user can be suddenly tipped backwards.

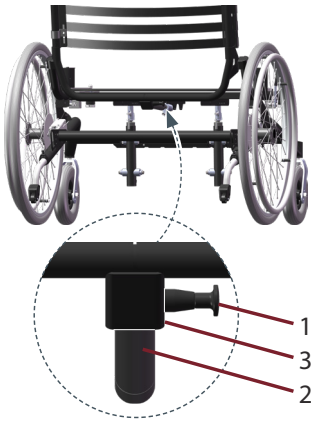


Figure 52. Locking pin for folding back rest

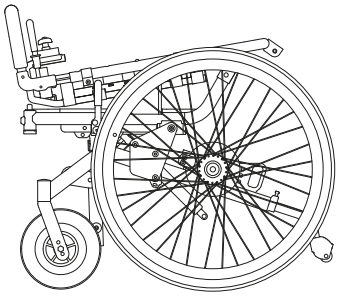


Figure 53. Folded wheelchair

5.3 Transferring in and out of the wheelchair

Transferring in and out of the wheelchair can be done in different ways **depending on the user's ability to actively participate**. It can be done with a lift, with help of one or two caregivers, or independently.

- The brakes must be locked before transferring in or out.
- Remove or fold in leg rests fully so they do not hinder. If needed foot plates can be folded up.
- Seat tilt and back recline may need to be adjusted per the particular needs of the user.
- Caregivers need to be mindful of their ergonomic positioning when assisting.

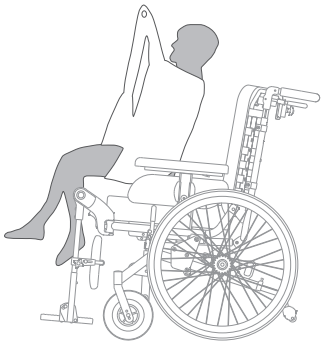


Figure 54. Transfer with lift



Figure 55. Transfer with assistance

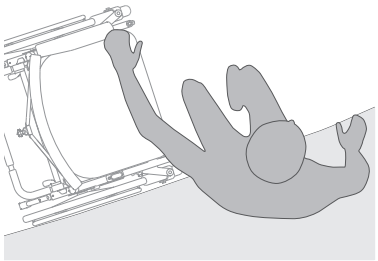


Figure 56. Independent transfer

5.4 Driving Technique

SLOPED SURFACES

When a user drives the wheelchair independently up a slope the wheelchair is balanced by the user leaning forward. When driving down a slope the user leans backward to balance the weight. Speed is controlled by using the hand rims.

On steeper slopes the wheelchair should be driven by a caregiver. Tip protectors must always be turned to the active position.

NOTE: Driving on sloped surfaces can be difficult with heavy users.

- Steep surfaces should be avoided due to the increased tipping risk.
- Surfaces that are wet, slippery, or uneven increase the risk of the wheelchair slipping or tipping.
- The wheelchair should not be turned on a sloped surface due to the increased tipping risk.
- When driving down a slope ensure that the user cannot slide out of the wheelchair (Figure 57).

CURBS / OBSTACLES - UPWARD WITH CAREGIVER

Tip the wheelchair up on the rear wheels by pushing down on the push bar and holding with one foot on the tip protector. Place the castors on the higher surface, lift on the push bar and roll the wheelchair up. See Figure 58.

NOTE: With a heavy user in the wheelchair it is not recommended to tip up the wheelchair due to the heavy load.

- As caregiver remember to use a good ergonomic position.
- In some cases it may be necessary to turn up the tip protectors, remember to turn them down again after moving.
- With a heavier user, tilt the seat back before tipping the wheelchair up. This reduces the amount of force required of the caregiver.

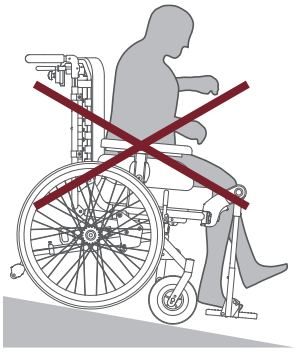


Figure 57. Sloped surface

CURBS / OBSTACLES - DOWNWARD WITH CAREGIVER

Back the wheelchair carefully down the edge. Balance with the push bar until the castors have reached the lower surface.

- As caregiver remember to use a good ergonomic position.
- In some cases it may be necessary to turn up the tip protectors, remember to turn them down again after moving.

⚠
- The wheelchair is not to be transported on stairs.
- Never lift on the armrests or other unsecured parts.

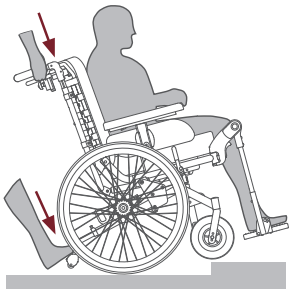


Figure 58. Curb

6. MAINTENANCE AND CARE

For safety and long life the wheelchair should be kept clean. Any faults or failures that arise must be addressed immediately. How the wheelchair is used affects the need for maintenance.

Preventative maintenance is not required. The need for periodic maintenance depends on how the wheelchair is used and how it is configured and equipped. The wheelchair is a prescribed product and as such the responsible prescriber and care provider (organisation) is expected to follow up on the product throughout its lifetime. Depending on how the wheelchair is used and how it is configured and equipped, maintenance in the form of checks per the table below should be done to ensure the functions and condition of the wheelchair.

Certain components that are subjected to wear will need to be replaced during the lifetime of the wheelchair. This applies particularly to cushions and other upholstered components, armrest pads, calf support pads, etc.

If the wheelchair changes users a new prescription must be done. The wheelchair should be carefully checked and be reconditioned to a degree appropriate to its condition. This is to ensure that any faults are not passed along to a new user.

In the case that there is no responsible prescriber or if the wheelchair is used by more than one user the periodic maintenance per the following table should be performed yearly. This should be done by trained personnel.

Any products from other manufacturers mounted on HD Force are not covered by these care instructions. If such products affect the wheelchair more than normal use extra maintenance may be required. More information is found in the document 97724-1 *Changes Permitted While Maintaining CE Marking*.

Estimated lifetime is 10 years under normal use with the same patient during the entire lifetime, assuming maintenance is carried out according to the instructions. How the chair is used affects the need for maintenance; hard wear, patients with particular movements, and much outdoor use require more frequent maintenance and shorten the lifetime. Lifetime is also shortened with changes in user if checks as described above are not completed.

Table 1 details the maintenance to be carried out.

The latest version of *Maintenance Schedule*, doc. nr. 97730-1, is always available at hdrehab.se.

Table 1 - Maintenance and care

Activity	Description
Cleaning of painted and coated surfaces and plastic parts	Wash/wipe with regular all-purpose detergent or disinfecting agents. No caustic agents.
Cleaning of upholstery	See label on the upholstery
Checking all screws, bolts, and nuts	Check all screws, bolts, and nuts; tighten any that are loose.
Control of castors	Check that the castors spin freely and do not have any visible damage. Remove any debris.
Control of antitip devices	Check that the antitip devices have no visible damage and are operating normally.
Control of chassis	Inspect the chassis for cracks, warping and other defects. Notify authorized personnel if damaged.
Control of brakes	Check that the brakes work firmly (both operator and user brakes). Contact a qualified technician if adjustment or lubrication is necessary.
Control of seat tilt and back recline functions	Check that the controls are easy to use and that the levers do not have any damage.
Control of locking pin (back folding)	Check that the locking pin is intact and sits properly. Check that the knob is tightly screwed on.

Table 1 continues on the next page.

Table 1 *(continued)* - Maintenance and care

Activity	Description
Control of armrests	Wipe clean with normal all-purpose cleaner. Check that the adjustments are functioning correctly. Telescoping aluminium profiles can be lubricated with petroleum jelly or food-grade grease.
Control of tilt lock	Remove any dirt in the holes along the rod and the spring pin where the wire is attached. Check that the stop rings on the tilt bar are securely fastened. If the tilt bar or wire sleeve is stiff, they can be lubricated. More info regarding lubrication type is available in *Technical Information*, 97720-1. If it functions poorly in any other way, contact authorized personnel.
Control of cushions and belts	Cushions wear out and become compressed, check to see if any need replacing. Check that the belt attachments, velcro, and locking mechanisms work properly.
Control of accessories (Functionality, locking, markings)	Check that all wheelchair labelling is undamaged and readable. Check the condition and function of all accessories.

6.1 Daily functional checks

To ensure the user's safety a daily functional check of the most vital parts should be carried out as described below.

- Test the brakes (both service brakes and user brakes).
- Check that seat tilt and back recline are functioning.
- Check that the wheels and cushions are correctly positioned, and are whole and clean.
- Check that the antitip devices are in the appropriate position.
- If the seat is equipped with a user card, make sure that the chair settings are consistent with its recommendations.

6.2 Long term storage

The wheelchair should be cleaned before storing long-term. Store in a dry, frost-free environment between 0 and 30°C. Cushions should be wrapped. When returning the wheelchair to service read through the user manual and check that all functions are working properly.

6.3 Recycling and disposal

HD Force can for the most part be recycled. Instructions for disassembly and recycling are available in *Disposal Instructions*, document number 97735-1.

7. TECHNICAL DATA - MEASUREMENTS

Measurement in cm unless otherwise noted	**Seat width 54**	**Seat width 58**	**Seat width 62**
Maximum user weight [kg]	180	180	180
Seat width	54	58	62
Seat depth (with back cushion)	43 - 52	43 - 52	43 - 52
Seat depth (without back cushion)	48 - 57	48 - 57	48 - 57
Seat height with / without seat cushion	52 / 45	52 / 45	52 / 45
Backrest height standard, seat plate - top of backrest	55 - 60	55 - 60	55 - 60
Backrest height long, seat plate - top of backrest	65 - 70	65 - 70	65 - 70
Back width	54	58	62
Armrest height Standard, from seat plate	26 - 36	26 - 36	26 - 36
Armrest height Low, from seat plate	20 - 26	20 - 26	20 - 26
Armrest pad - length x width	37 x 7	37 x 7	37 x 7
Leg rest length short, seat plate - footrest, leg 90°	21 - 27	21 - 27	21 - 27
Leg rest length standard, seat plate - footrest, leg 90°	29 - 43	29 - 43	29 - 43
Leg rest length long, seat plate - footrest, leg 90°	37 - 51	37 - 51	37 - 51
Leg rest angle [°]	90 - 180	90 - 180	90 - 180
Footrest angle leg rest tube - foot plate [°]	90 - 110	90 - 110	90 - 110
Footrest plate length	22	22	22
Push bar height, standard, 3 positions	105, 113, 120	105, 113, 120	105, 113, 120
Total width 22" drive wheels	79	83	87
Total width 16" drive wheels	78	82	86
Total length, with leg rests	101	101	101
Total length, without leg rests	77	77	77
Total height, seat 0°, back 90°	105	105	105
Total height, back and push bar folded, w/o cushions	75	75	75
Seat angle [°]	0 - 20	0 - 20	0 - 20
Back angle [°]	90 - 120	90 - 120	90 - 120
Total weight with caregiver brakes, cushions, Separate leg rests, Standard armrests [kg]	40,7	41,0	41,3
Transport measurements (collapsed, including brakes, w/o drive wheels, leg rests, armrests, cushions)			
Width	79	83	87
Length	82	82	82
Height	71	71	71
Weight [kg]	24,3	24,5	24,7

NOTES



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CE MD