
HOGGI[®]



DURO // DURO Cross User manual

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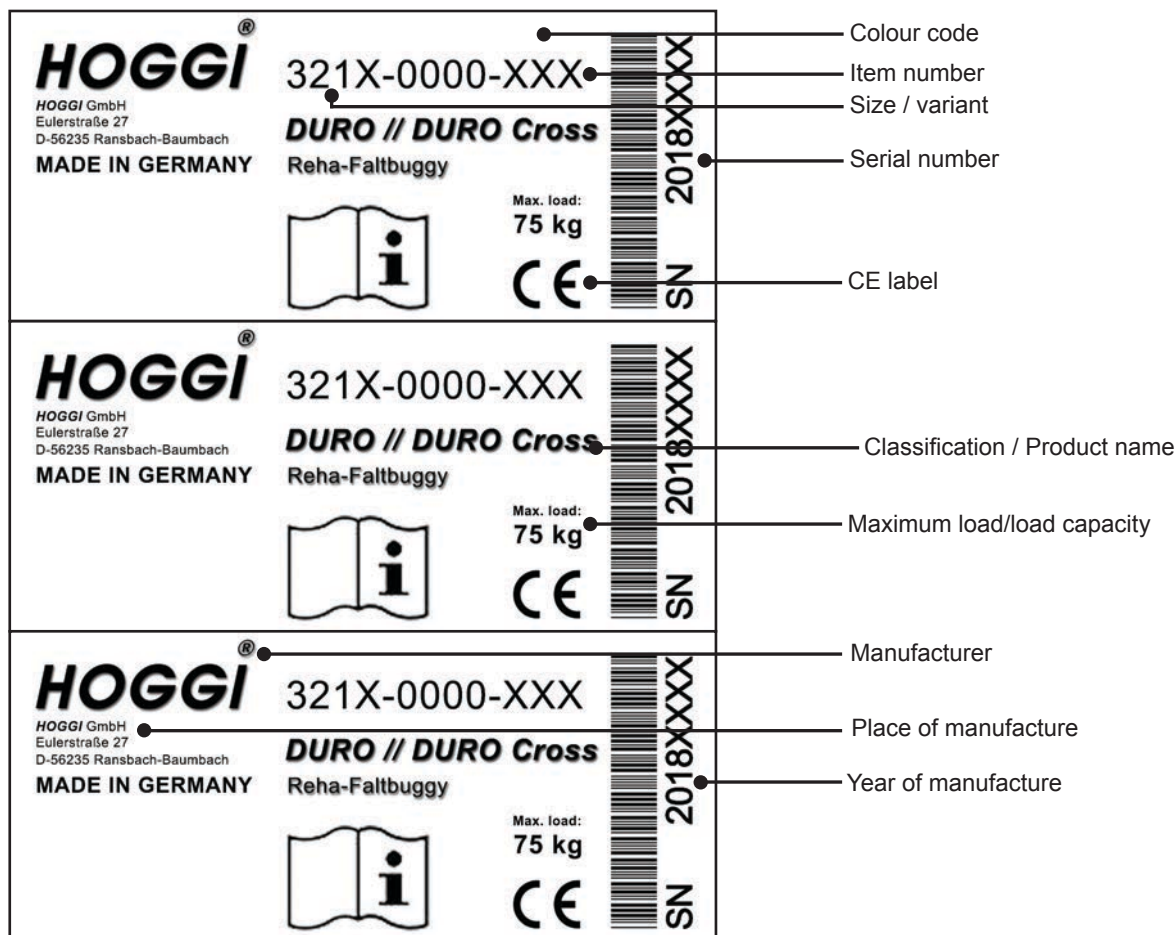
User manual for rehab buggy DURO // DURO Cross

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Model identification

The **label** is attached on the backrest panel.



The **basic configuration** contains:

- **DURO // DURO Cross** rehab buggy
- Front and rear wheels with air or PU tires
- Drum brake wheels with polyurethan or pneumatic tyres (only for DURO Cross)
- Padding (IPS)
- Thigh supports
- Supporting brackets
- Footrest system and footrest

2 Common Information

2.1 Preface

Thank you for selecting the DURO // DURO Cross rehab buggy. We have designed this high-quality product to make your life safer and easier, and we've included this manual to help you use and care for it.

Please read the following instructions to make sure you use this product as recommended. If you have any further questions, or if you have any problems, please contact your healthcare provider.

We hope that DURO // DURO Cross meets your expectations. We reserve technical modifications regarding the specified model in this manual. Before using the wheelchair the first time, this manual has to be read and understood by patient and support personnel in order to ensure a safe handling with the rehab pushchair.

2.2 Application

Rehab pushchairs, paediatric postural positioning systems or strollers are appropriate for children and adolescents who are unable to walk or who have a walking impediment and thus requiring mobility assistance.

Assistance may be required due to:

- Atypical muscle tone
- Loss of limbs (dysmelia/lower limb amputation)
- Limb defect and / or deformity
- Joint contractures
- Joint defects
- General weakness

The DURO // DURO Cross rehab buggy is able to be used indoor and outdoor as well as for further service. For further service the product has to be cleaned and sanitised efficiently. Afterwards the product has to be checked concerning condition, wearout and damage by an authorised technician. All damaged and inappropriate parts need to be changed. Please see also the service manual for detailed information.

2.3 Declaration of Conformity

The HOGGI GmbH as manufacturer with sole responsibility declares that the rehab buggy DURO // DURO Cross conforms to the requirements of the 93/42/EEC Guidelines (considering also the modifications of MDD 2007/47/EG). Applicable harmonized standards have been applied.

2.4 Terms of Warranty

Warranty applies only when the product is used according to the specified conditions and for the intended purposes, following all manufacturer's recommendations. The manufacturer is not responsible for damages caused by components and spare parts not approved by the manufacturer. See also § 8 of terms and conditions on: www.hoggi.de

2.5 Service and repairs

Service and repairs on the DURO // DURO Cross rehab buggy should only be carried out by authorized HOGGI dealers. Should any problems arise, please contact the dealer who supplied your DURO // DURO Cross. Authorized dealers only fit original HOGGI spare parts.



For preparing, repair and service, the following tools are required:
Allen wrench, size: 3 mm, 4 mm, 5 mm and 6 mm
Screw wrench, size: 10 mm, 13 mm, 19 mm and 24 mm

3 Safety instructions

3.1 Meaning of symbols



Caution!
Warning of possible danger of accident and injury.
Warning of possible technical damage.



Information!
About use of product.



Information!
For service-personnel.



Attention!
Read manual before use.

3.2 Common safety instructions



Read manual completely before use!

Familiarize yourself with handling and functions of the product before use and practice the various functions.

You are responsible for the safety of your child. The safety of your child could be affected if you do not follow the instructions of this manual. Nevertheless not all possible circumstances and unpredictable situations can be covered by this manual. Reason, care and circumspection are not features of the product, they are required of persons, who use the product. The person, who is using the product and its accessories should understand all instructions and should explain them to every person using the product and its accessories.

If instructions are not clear and further explanations become necessary, or if you have further questions please contact your HOGGI dealer.



Strap your child at all times, when they are in the rehab buggy.



HOGGI points out, that any use beside the typical use can be dangerous. The rehab buggy is not suitable for jogging, running, skating or similar activities. Swivelling front wheels tend to wobble at higher speed, which can cause a sudden stop and tip over of the buggy.

Use the rehab buggy only at regular walking speed.

Under no circumstances leave the handle bar while pushing and never push the chair away.



The buggy should only be used on solid level ground.



Use your buggy as intended by the manufacturer. For instance, do not drive into obstacles (including steps, curbs) without braking.



To clear obstacles such as steps and curbs, tilt the buggy onto the rear wheels (pull it backwards to go up; to descend, slowly lower it forward).



Do not go up or down stairs without the assistance of another person. If devices such as ramps or elevators are available, please use them. If they are not available, then the buggy should be carried over the obstacle by two persons.



Pay particular attention when on slopes and inclines to prevent:

- the child from falling out of the buggy
- the pushchair from tipping over
- the pushchair from rolling away



Only lift the rehab buggy by parts that are solidly attached:

- front frame tube above the front wheels
- front axle
- push handle



If you have to park on a slope, face the rehab buggy uphill with the brakes engaged and ensure that the seat is in the upright position. There is a risk that the rehab buggy might tip over backwards if the seat is the reclined position.



Before leaving the rehab buggy and before getting into and out of it, always lock the wheel locks.



When your child reaches for objects in front, to the side or behind the buggy, be sure that he/she does not lean out of the pushchair too far since the shift in the center of gravity might cause the buggy to tilt or tip over.



The handling of the rehab buggy is strongly influenced by tyre pressure. Correctly inflate tyres considerably improve its maneuverability. The air pressure should be at least 2 bar (200 kPa resp. 29 PSI).



Please be aware that with certain footrest settings the footrest can collide with the caster wheels.



Please keep packaging material away from children.
Plastic packaging presents the danger of suffocation.



Never leave your child unattended in the rehab buggy even when they are strapped in and the brakes engaged.



In the dark, the user should wear light clothing or clothing with reflectors in order to improve visibility. Ensure that the reflectors if installed are easily visible. We also recommend installing active illumination.



Before using the rehab buggy, both folding guards and the seat must be firmly locked in place.



Static stability is at 10,5° inclination.
Attaching heavy bags or other weight to the push handles can adversely affect stability.



Caution!
Regard specially during adjusting the recline, the tilt in space function and the footrest hanger angle the danger of getting caught for the child by protruding arms or legs into flexible parts of the DURO // DURO Cross.



Don't use the footrest to get into and out of the wheelchair generally.
Use the footrest with shoes only.



The rehab buggy is only intended to carry one child at a time.



Disposal of waste: The packaging material as far as metal, aluminium and plastic parts can be recycled. The recycling must be operated according to the national and legal terms.



The maximum weight that can be carried in the accessory bags is 3 kg (model "soft") or rather 8 kg (model "large").
Trays must not be loaded with objects heavier than 5 kg.



Caution!

All upholsteries are hardly inflammable and meet the claim EN 1021 part 1 (cigarette test) and part 2 (match test). But that doesn't protect the user in the seat unit to suffer burnings by careless handling with blaze or open fire.



For storage in the folded situation don't charge the base frame (if the tie down kit is mounted).



The maximum load for the DURO // DURO Cross is 75 kg.



Accessories and add-ons reduce the maximum load proportionately.



We recommend that, wherever and whenever possible users transfer to the seats installed in the motor vehicle and use the corresponding vehicle restraint systems, because this is the only way to ensure optimum protection of the passengers in case of an accident.

Your DURO // DURO Cross rehab buggy was successfully tested in accordance with ANSI/RESNA WC/19 and ISO 7176/19 (Crashtest).

It is, however, possible to use your DURO // DURO Cross rehab buggy as a seat in a motor vehicle.



The assembly of a seat shell is only permitted within the specified seating area. The manufacturer of that new product combination has to test the stability and the adherence of the maximum load before commissioning.



Neither the maximum seat depth nor the maximum back height must be exceeded.



Please read to visually handicapped people the manual and info material - or use electric aids. Please download or read all DURO // DURO Cross documents on our website www.hoggi.de. In addition, product videos and product photo galleries are available online!



Whenever you change any settings on the DURO // DURO Cross, make sure that you firmly tighten any screws that have been loosened.



Check the condition of the product if the packaging shows damages.



Be careful in case of extreme temperatures. The wheelchair can heat up significantly when in the sun or in the sauna. In extreme cold, there is a risk of hypothermia. For persons with insensitive skin (ie persons who can not perceive a temperature increase) and / or with skin damage, care must be taken that metal parts do not reach too high a temperature. In these cases, it is imperative to wear appropriate garments to protect the skin.



The HOGGI seat cushion (Trevira CS) and the contoured seat cushion (Trevira CS) as well as the HOGGI nylon backrest and seat cover are flame resistant referred to the EN 1021-1 and EN 1021-2 norm. When using other cushions and back cushions, as the original supplied by HOGGI or used in addition padding, the flame retardant effect is not given.



Always make sure that the quick-release fastener on the rear wheel engages correctly.



4 Delivery and preparing for use

Your DURO // DURO Cross rehab buggy will normally be supplied completely mounted. Delivery in board:
800 mm (L) x 700 mm (W) x 400 - 450 (H)

Please check the condition of the product if the packaging shows damages. Please remove the transport locks and the transport packaging carefully.

The original package contains the following parts:

- Mobility base, folded
- Rear wheels
- Seat-, backrest-, hip- and lateral upholstery
- Accessories as ordered
- (These have to be mounted on the rehab buggy by an authorized dealer)
- Instructions and list of tools required



To unfold the DURO // DURO Cross please proceed as follows:

- Release the unfold safety catch on the left front frame.



- Use the black handle grip on the pushbar to lift the rehab buggy and unfold it until you can set it on its wheels.
- Press the pushbar backwards until the folding guards engage hearable.



- Check both folding guards and engage them if it's necessary.





Attaching the rear wheels:

- Press down on the quick release with your thumb as shown and place the rear wheel on the rear axle.
- Check the secure fit on the axle by pulling on the wheel without pressing the quick release.
- Do the same on the opposite side.



- Carefully cut both transport locks (cable ties) on the attendant brake with a pair of scissors or a craft knife.



DURO Cross:

- Grasp the quick-release axis as shown and press the release button.



- Guide the thru axle with the release button pressed through the bearings of the wheel.
- Check the secure fit on the axle by pulling on the wheel without pressing the quick release.
- Do the same on the opposite side.

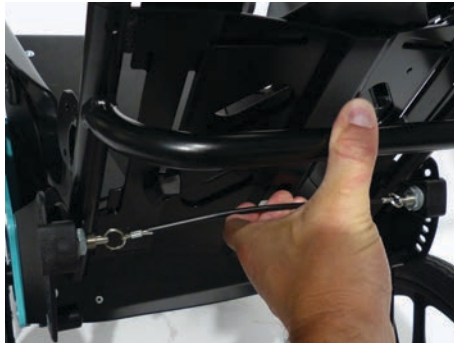


Lift the backrest:

- Pull the release strap on the back bar as shown and move the backrest to the back.
- Engage the backrest in the first back angle position (audibly).



- The illustration or the mark shows the backrest locked in the first back angle position.



- After pulling the release strap the angle of the seat unit can be adjusted.



Footrest system and footrest:

The footrest system and the footrest are in a hinged position for the transport.

- Swing the footrest below.



- Swing the footrest system with the footrest into the desired position.



- Clamp it firmly with the clamping lever.

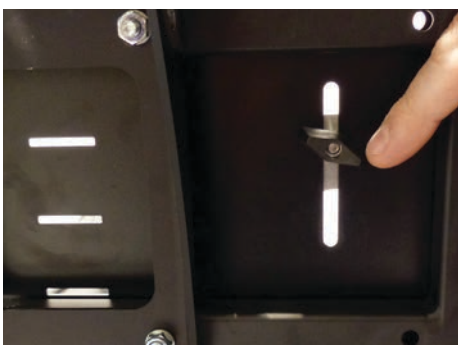


- Press the marked button and move the extender lever to the desired position.



If your rehab buggy is equipped with **thigh supports** please proceed as follows:

- Position the thigh supports in the desired position on the seat plate.
- Insert the two coach bolts from above as shown.



- Fix both coach bolts with the wing nuts on the underside of the seat panel as shown.



- Secure both screw connections with one Biloc nut as shown.
- Proceed the same way on the opposite side.

If your rehab buggy is equipped with **hip supports**, please proceed identically.



- Place the hip supports (left) on the brackets (left) as shown.
- Proceed the same way on the opposite side.



If your rehab buggy is equipped with **headrest pads (low version)** please proceed as follows:

- Position the headrest pad in the desired position from the front on the backrest plate.
- Insert the two coach bolts from the front as shown.



- Fix both coach bolts with the knurled nuts on the back of the backrest plate as shown.



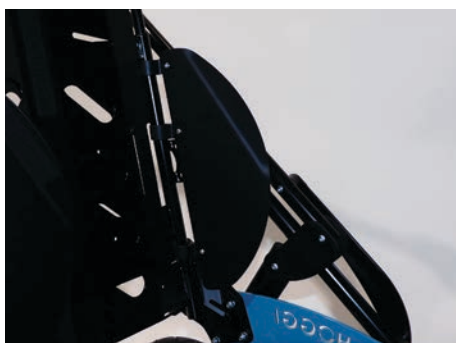
- Secure both screw connections with one Biloc nut as shown.
- Proceed the same way on the opposite side.

If your rehab buggy is equipped with **headrest pads (high version)** please proceed identically.



The **lateral supports** can be detached for the transport to achieve a small pack size.

- Plug the side supports on the backrest tubes as shown.



- The picture shows the **DURO** with the left side support plugged on.



- Place the **seat cushion** on the seat panel and fix it to the seat panel with the snaps below the front seat edge as shown.



- Also attach the seat cushion with the snaps to the seat panel below the rear seat edge as shown.



- Pull the **upholstery of the thigh supports** as shown starting from the front, so that the padded side points to the inner side and fix it with the Velcro fasteners.



- The illustration shows both thigh supports including upholstery.



- Pull the upholstery of the hip supports as shown starting from the front, so that the padded side points to the inner side.



- Press the Velcro sewn on the inside of the hip pad on the loop tape attached there.



- Pull the upholstery of the headrest pads (low version) starting from the bottom as shown, so that the padded side points to the inner side.



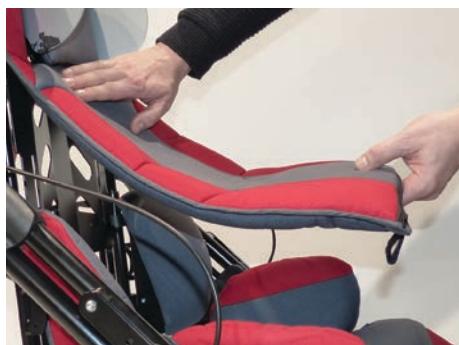
- Close the zipper as shown.



- Pull the lateral support upholstery onto the bracket, so that the cushioned side points to the inner side and fix it with the Velcro fasteners.



- The illustration shows both lateral supports including upholstery.



- Pull the backrest upholstery with the cap onto the backrest and fix it on top with the Velcro fasteners.
- Insert the lower end of the backrest upholstery between backrest and seat.

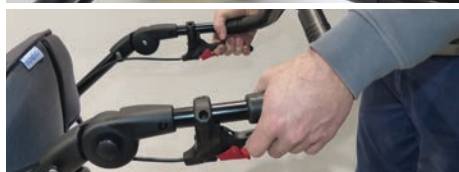


- Guide the Velcro fasteners through the long hole as shown and fix it.



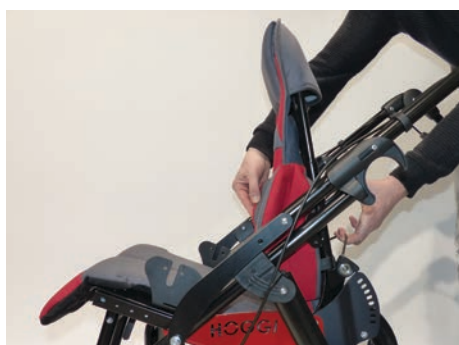
To fold the rehab buggy DURO proceed as follows:

- Before folding always ensure the **DURO** with the wheel lock or the attendant brake for the companion.



To achieve the most compact folding package please proceed as follows:

- Pull off both hip supports (if available) as shown.



- Fold both lateral supports inwards or take them off.
- Fold the backrest as far as possible onto the seat.



- Position the footrest hanger as shown.



- Position the footrest as shown.



- Position yourself behind the rehab buggy, pull up the two folding guards and move the pushbar forward.



- Move the pushbar forward as shown.



- Position the pushbar as shown.



Transport lock:

Secure the rehab buggy against unintentional unfolding.

- Position the tab as shown.
- Insert the safety button into the lower hole in the tab as shown.



- Move the frame tube up so the safety button locks in the upper hole.



To unfold DURO please proceed as follows:



- Release the transport lock on the left front frame.



- Pull the release strap on the back bar and allow the backrest to engage in the first position.



- Push the **DURO** down on the backrest with one hand while pulling the pushbar towards you with the other hand.



- Press the pushbar backwards until the folding guards engage hearable.
- Check both folding guards and engage them if it's necessary.
- Set the footrest hanger to the desired angle position and fold down the footrest.
- Set the backrest in the desired angle position.
- Set the pushbar in the desired angle position.
- If necessary, attach the lateral and hip supports.



5 Adjusting and adaptation possibilities

5.1 Wheel lock

- To put the wheel lock on push the wheel lock lever downwards and roll the buggy slightly back or forward, so that the lock pins can engage in the brake disc.

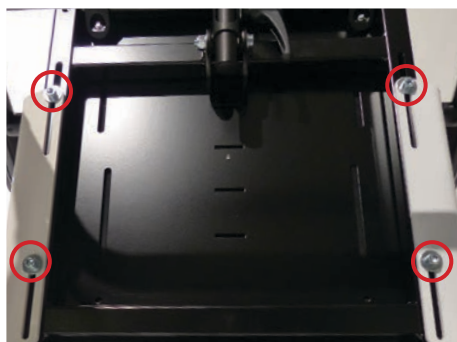


- To disengage the wheel lock pull the wheel lock lever upwards with your toe.



5.2 Height adjustment of the pushbar

The ratchet joints allow adjustment of the pushbar to a convenient height. To operate the ratchet joints, push the buttons on the outside of the pushbar.

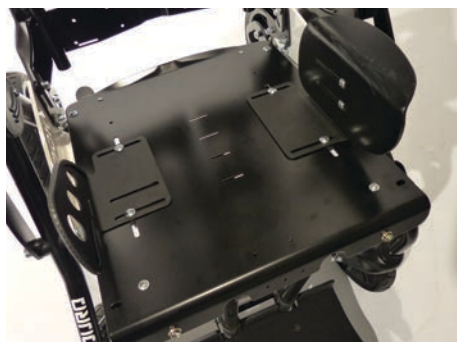


5.3 Seat depth and seat width

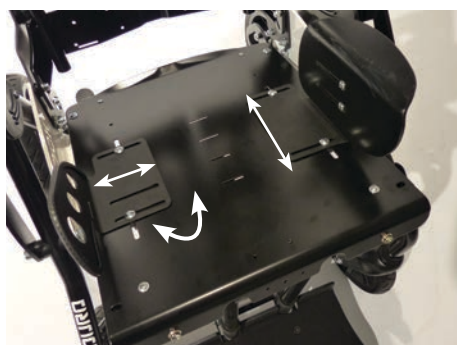
After loosening and removing the marked screw connections on the underside of the seat panel, the seat panel can be infinitely adjusted in depth.



Whenever you change any settings, make sure that you firmly tighten any screws that have been loosened.



After loosening the wing nuts under the seat it is possible to adjust the seat width continuously variable by sliding the hip supports respectively the thigh supports.



The arrows in the illustration show the adjustment possibilities of the hip supports. These are adjustable in width, depth and angle.



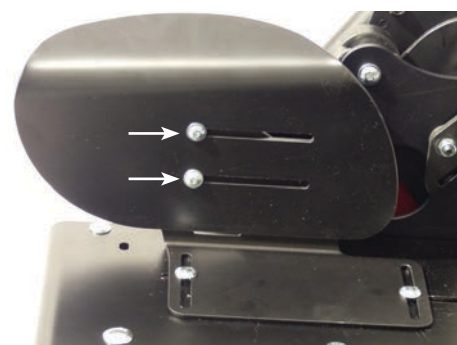
Whenever you change any settings, make sure that you firmly tighten any screws that have been loosened.



5.4 Retainers for accessories

The retainers for accessories are used to attach the pushbar and the therapy tray. The retainers for accessories can be mounted in different depths positions to organise the distance between the child and the grab rail respectively the therapy tray variable.

It is possible for the dealer to modify the **DURO** with different depths positions.



5.5 Hip supports

After loosening the wing nuts under the seat panel (see 5.3) the hip supports can be adjusted concerning the depth, width and angle continuously variable. After loosening the marked screws it is possible to adjust them also on the bracket.



Whenever you change any settings, make sure that you firmly tighten any screws that have been loosened.



5.6 Lateral supports

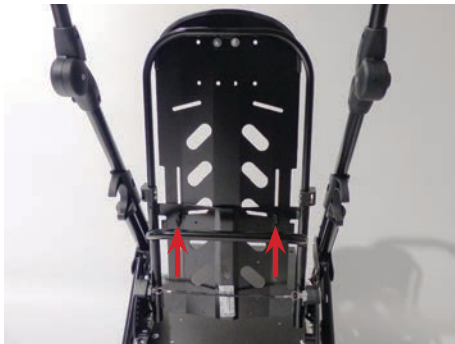
The lateral supports can be detached for the transport.



5.7 Thigh supports

After loosening the wing nuts under the seat it is possible to adjust the thigh supports concerning the depth, the width and the angle continuously variable.

See „5.3 Seat depth and seat width“



5.8 Back height

- Loose the wing nuts on the backrest and the cap nuts on the top and adjust your desired back height.
- Firmly tighten the screws that have been loosened.



Whenever you change any settings, make sure that you firmly tighten any screws that have been loosened.



5.9 Recline

- First stand behind the **DURO** and activate the wheel lock. Secure the backrest with one hand and carefully loosen the rotary knob.
- Adjust the backrest into the desired position.



5.10 Footrest hanger, angle adjustable

- Activate the wheel lock of the **DURO** and kneel to the left to the seat. Secure footrest and knee angle assembly with one hand before you loosen the toggle lever with the other hand:



- Swing the footrest to the desired position.



- Tighten the toggle lever firmly.



5.11 Lower leg length

- Activate the wheel lock of the **DURO** and kneel next to to the rehab buggy.
- If necessary, secure the footrest with one hand and loosen it carefully all cylindrical head screws.



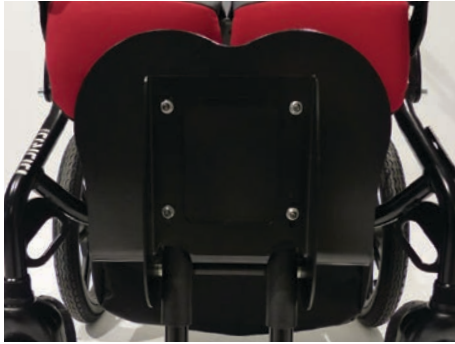
- Slide the footrest to the desired position.



- Tighten the cylindrical head screws firmly again.



Whenever you change any settings, make sure that you firmly tighten any screws that have been loosened.



5.12 Footrest angle

The footrest can be raised to get in and out of for transport easily.

- After loosening the 4 boltings under the footrest the footrest can be slid on the hanger.



- This alters the location of the footrest and, therefore, also the footrest angle.
- The angle of the footrest can be adjusted from approximately 80°-100°.



5.13 Foot rest lock

By pulling the release ring, the foot rest can be folded upwards. When the foot rest is folded down, it will automatically lock into position.



Whenever you change any settings, make sure that you firmly tighten any screws that have been loosened.



5.14 Detaching wheels with quickrelease axle

The rear wheels of both variants can be removed with quick fasteners. Thus, an even smaller folding size be achieved.



- To detach press the quick release spring towards the middle of the wheel and pull the wheel from the axle.



DURO Cross:

The rear wheels of both variants can be removed with quick fasteners. Thus, an even smaller folding size be achieved.



- To detach press the quick release spring towards the middle of the wheel and pull the wheel from the axle.



5.15 Pneumatic tyres

Your rehab buggy can be equipped with pneumatic tires. The car valves allow checking and adjusting the air pressure at each gas station.

Notice the air pressure indicated on the tyre.



6 Accessories

6.1 Swivel lock

The swivel lock is mounted by the manufacturer or an authorized dealer.

- To lock the swivel lock turn the lock pin by 90° and let it engage in the designated hole in the castor fork.
- To open the swivel lock pull the lock pin, turn it by 90° so that it stays in the disengaged position.
- After loosening the clamping screw the track can be adjusted with engaged swivel lock.





6.2 Folding accessory bag

The **DURO** can be supplied with an accessory bag which completely folds with the buggy, where the carrying capacity is set to a maximum of 3 kg.



The maximum weight that can be carried in the accessory bag is 3 kg.



- The bag is attached with Velcro fasteners to fix it on the frame.



- Fix the Velcro fasteners on the front frame as shown.



- Fix the Velcro fasteners on the rear frame as shown.



- Fix the Velcro fasteners on the side strut.



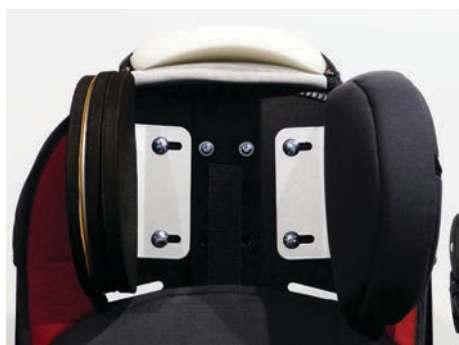
- The illustration shows a folded **DURO Cross** including the foldable soft accessory bag.



6.3 Headrest pads

The headrest pads are mounted with carriage bolts and knurled nuts on the back insert.

- For an easy mounting and for adjustments open the zipper of the upholstery cap on the rear of the back and turn the rear head upholstery back.



- For a rough adjustment of the headrest width the self adhesive foam pads are glued to the left and/or the right of the headrest brackets.



- Put on the cover.
- After loosening the knurled nuts the headrest pads can be moved in or out for a fine width adjustment.



- The height adjustment is realized by adjustment of the back insert.

See also „5.8 Back height“.



6.4 Headrest pads (low version)

The headrest pads (low version) get mounted identically as the headrest pads. See 6.3 headrest pads.

- For an easy mounting and adjusting open the open the zip and revert the backrest cushion as shown.



- Put on the cover as shown.
- Close the zip.



- The illustration shows the mounted headrest pads (low version) including upholstery.



6.5 Lap belt

On each end of the lap belt you can find pre-mounted triglides.

- Thread the lap belt ends first through the bottom triglide and then through the top back so that the webbing runs through the triglide only once as shown.

The length of the free belt ends determine the length of the complete lap belt.



- Pass the free belt ends as shown through the long holes on the right and left side in the backrest.



- Then thread the belt ends once again through the triglide.



- Proceed the same way on the opposite left back base.
- Then get both strap ends together and thus close the strap.



- Open the lap belt by pushing the red key on the buckle.

The lap belt can be adjusted by pulling the belt end next to the buckle (fine tuning).



6.6 4-point lap belt

The assembly should be performed by trained technicians.

By pressing the plug ends the lap belt opens.

At the belt buckle the lap belt can be readjusted by adducting the lap ends (fine tuning).

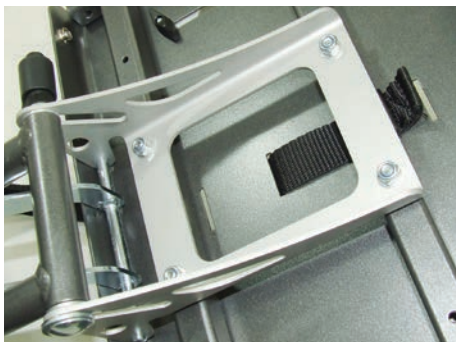


- First the seat upholstery have to be removed. Then guide the triglides for the tension belts as shown through the long holes of the thigh supports.



- Then thread the belt ends through the triglides as shown.

The lap ends and the tension belts of the 4-point lap belt get mounted and preset (length) as described under 6.5 Lap belt.



6.7 Five-point harness

The five-point harness should be installed by authorized dealers or trained technicians. Take the seat upholstery off first and turn the seat unit.

In the seat plate are long holes. Choose after adjusting the seat depth one long hole to guide the belt. The position should be close to the body but not underneath the bottom.



- Remove the belt housing and the triglide first.
- Guide the belt end through the seat plate and the seat frame tube until the arrester and guide it to the surface through the choosen long hole.
- Fix the seat cushion and guide the belt upwards through the slot in the cushion.
- To attach the strap to the buckle proceed as described in 6.5 lap belt.



- Lead the shoulder straps together with the pad straps through the designated long holes in the back insert.



Fix the shoulder straps to the slots in the back base as described in 6.5 lap belt.

- Tie the pad straps together.



- The shoulder straps should be adjusted in a way that the housing of the length adjusters rest on the shoulder padding.
- Mount the lap strap ends of the five point harness as described in 6.5 lap belt and preadjust them roughly.



To take off the five-point harness proceed as follows:

- Press the red button on the buckle.
- Press the keys of the length adjusters and pull the strap out so that approx 5 cm (2 inches) of the strap end remains.
- Create wide loops which allow for the arms of your child to move out of the harness easily.
- Lift your child out of the seat.



To put the chest-shoulder harness on proceed as follows:

- Place your child into the seat.
- Put the elbow of your child through one of the shoulder strap loops first and then the forearm and hand.
- Proceed with the other arm identically.
- Put the buckle members one after each other into the buckle.
- Tighten shoulder and lap straps by pulling the strap ends coming out of the length adjuster.



6.8 Foot straps

Thread the foot straps crosswise through the D-rings over the shoe/foot of your child.

The heel should be placed against the heel plate of the footrest.

Place the buckle always outward.

Pull the free strap end to tighten the foot straps.

Press the key on the buckle to open the buckle.



6.9 Ankle hugger

Ankle huggers allow a comfortable fixation of the foot joints.

They are fixed to anchors on the foot plate.

The heel should be placed against the heel plate of the footrest.

Velcro straps are used to close the ankle straps and adjust their length.

Place the buckle always outward.



6.10 Groin strap

Thread the tensioning straps for the thigh belts (the end with a loop) through the slots on the right and left side in the lower end of the back base (see also 6.5 Lap belt).

Thread the free end through the loop and tighten the tensioning strap. Now pull the free ends of the tensioning straps towards the seat padding.



Then thread the tensioning straps into the buckles.



Position the groin strap with the quick-release buckles on the thigh belts pointing downwards on the seat surface.



Caution!

Excess strap ends on accessories may be trapped in the tilt mechanism and can avoid the engagement of the locking pins. In such a case the seat could fall off the mobility base. Shorten excess strap ends on accessories so that they can not be trapped.



Thread the attachment straps of the groin strap between seat and back padding, wrap them around the back of the seat edge and attach with rectangle-rings, the screws and the washers under the seat plate.

Here the length can be adjusted by the triglides.

The assembly should be performed by trained technicians.



To put on the groin strap proceed as follows:

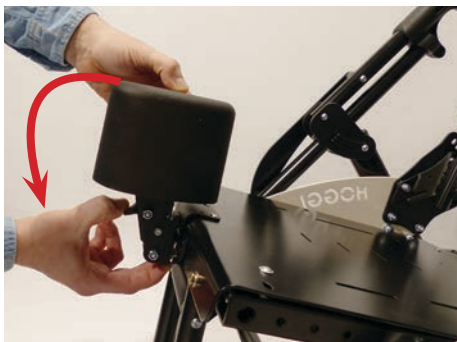
- Place your child into the pushchair on the groin strap.
- The thigh straps are passed between the legs through and over the thighs, at that the part of the thigh belt with the buckle attached should lie on the pelvic bone.
- Insert the male part of the quick-release buckles located on the tensioning straps into the buckles on the thigh belts.
- Tighten the thigh belt by pulling the free end of the strap that comes out of the buckle.
- To disengage the quickrelease buckle, press the key on the buckle.



6.11 Abduction block fixed / swing away

The **DURO** can be supplied with a fixed or a swing away abduction block.

You can swing away the swing away abduction block for an easy get in.



To swing away:

- Position in front of the **DURO** and press with one hand the blocking clamp as shown and swing away the abduction block with the other hand downwards.



The illustration shows the swing away abduction block.



To insert:

- Position in front of the rehab buggy, insert the abduction block as shown and swing it upwards. The abduction block snaps acoustically into place.





6.12 Retainers for accessories

The retainers for accessories are used to attach the grab rail and the therapy tray. The retainers for accessories can be mounted in different depth positions to make the distance between child and grab rail or therapy tray variable.

A modification to another depth position by the dealer is possible.



6.13 Grab rail with upholstery

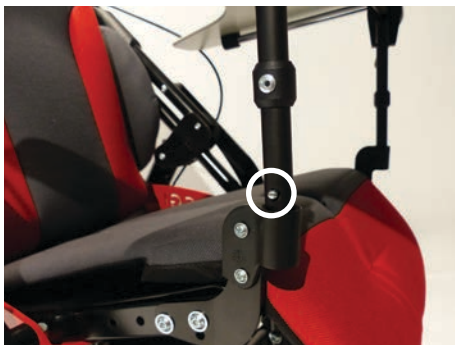
Guide the longer part of the grab rail into one side of the retainer for accessories.

After this guide the shorter end of the grab rail by pressing the snap button into the other retainer for accessories.



- Grasp the top of the retaining bracket from top to left and right.
- Take off the grab rail by pressing the snap buttons (see marking) and pull the rail upwards.

The cover is easy to remove by opening the zipper..



6.14 Therapy tray

Insert the tray with the vertical round tubes into the retainer for accessories on the seat unit.

Press the snap buttons (see marking) and ensure that they point to the side.

To detach the therapy tray see 6.12.



The illustration shows the mounted therapy tray.



The tray top is adjustable in depth and angle by operating the clamping lever. After loosening the screw connections the height adjustable models can be adjusted in the height.

Note the maximum load capacity of the therapy table.



Trays must not be loaded with objects heavier than 5 kg (11 lb).

6.15 Winter warmer

Zippers allow the upper part of the winter warmer to be opened or removed.

- Place the winter warmer in the buggy and tie with the straps.

Upper straps to the frame of the back insert.

Thread the lower straps through the long hole of the back base and then knot them together.



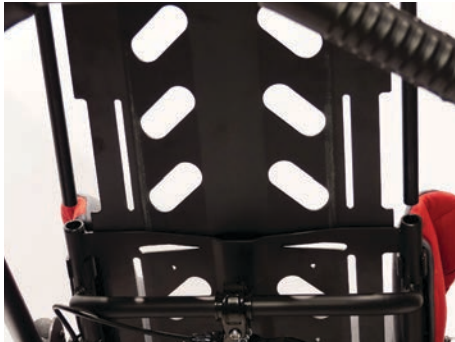
6.16 Sheep skin insert

After removing the upper side of the winter warmer the sheep skin insert gets inserted into the winter warmer.



6.17 Rain cape

With the zip-fastener open pull the rain cape over the child's head, then unfold the upper end over the backrest and the lower end around the footrest.



6.18 Canopy incl. adapter and rain cover

First mount the canopy adapters on the back slot. Loosen the locking screws on the backrest plate and pull the back insert out of the back base.



- Insert both adapters on the back bracket of the back insert as shown.



- Slide the adapters along the bracket and position them at the height shown.



- Screw the adapter tight.
- Proceed the same way on the opposite side.



Adjustable ratchet joints are used to set the angle of the canopy.

- Spread the canopy and wrap over the backrest of the seat.
- Insert the male pins of the canopy into the canopy adapters on both sides.



Canopy with rain cover:

- Take the rain cover out of the bag attached to the wrap, unfold the rain cover, pull it over the unfolded canopy and put it over the footrest assembly.



6.19 Attendant brake

DURO can be fitted with an attendant brake.

The brake mechanism can be operated with two independent brake lever.



Adjustments:

The attendant brake set is pre-adjusted.

At the exit of each brake housing a cranked set screw leads the brake cable away from the tyre of the rear wheel.

Always ensure that the crank of the set screw shows towards the rear frame, away from the tire.



6.20 Drum brakes

DURO can be fitted with drum brakes too.

The drum brakes are activated from the pushbar.



Each drum brake is operated by a brake lever. To apply the drum brake squeeze the brake lever.

With the finger tips press the rocking catch, until it locks with a click and release the brake handle. When the brake lever is squeezed again, the rocking catch is unlocked and the drum brake can be released.



After loosening the counter nut the initial tension can be adjusted by screwing the guide of the bowden cable.



Whenever you change any settings, make sure that you firmly tighten any screws that have been loosened.



6.21 Buggy-Board

To transport a second child **DURO** can be supplied with a detachable Buggy-Board.



Buggy-Board are applicable for children at the age of 2 years and resilient up to 20 kg.



6.22 Sunshade

DURO can be supplied with a sunshade.

For this purpose, the adapter is screwed to the handlebar as shown. The sunshade can be removed from the adapter via a plug-in system. The adapter remains on the frame when folding the rehab buggy.



6.23 Accessories and diaper bag

- A spacious bag with diverse interior and exterior pockets.
- Changing mat, bottle thermo bag and a little pocket for a diaper included.
- Shoulder pad for a better wearing comfort.
- Easily access to stroller through click system.

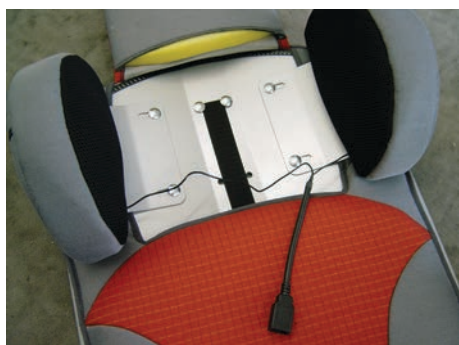


Attaching heavy bags or similar to the push handle can have a negative influence on the stability.



6.24 Soundsystem

The stereo soundsystem consists of 2 flat speakers with a diameter of 36 mm plus a spiral cable with an integrated 3,5 mm stereo jack.



The stereo soundsystem can be expanded into the headrest pads with spacer.



7 Transport

7.1 In the trunk (luggage space) of a car

The smallest pack size can be achieved with the backrest folded and the supports removed.



7.2 Using DURO for bus transport (according to ISO 7176-19 and ANSI / RESNA WC-4)

Common information:

- Check that your rehab buggy is suitable for a crash test.
- Check that the vehicle is equipped and compatible for transporting your rehab pushchair.
- There should also be enough space for safe transport.
- Ensure an upright sitting position during transport.



Please note that improper use of a rehab pushchair in a wheeled ambulance can be dangerous beyond typical use.

Failure to follow this advice will result in serious injury or death.

7.3 Securing the rehab pushchair during bus transport



We recommend that, wherever and whenever possible users transfer to the seats installed in the motor vehicle and use the corresponding vehicle restraint systems, because this is the only way to ensure optimum protection of the passengers in case of an accident. Your DURO rehab buggy was successfully tested in accordance with ANSI/RESNA WC/19 and ISO 7176/19 (Crash Test). It is, however, possible to use your DURO rehab buggy as a seat in a motor vehicle, if our "Tie down Kit" as well as appropriate restraint systems are used. Your DURO is admitted for use as a seat in a motor vehicle yet.



The rehab buggy may only be used forward in the direction of travel.



The rehab buggy was dynamically tested in the direction of travel while the dummy was attached with lap belt and shoulder strap.

1) If the user finds itself in the rehab pushchair, the rehab pushchair has to be positioned forward and has to be fixed with the fastening and safety belts according to the instruction for use of the restraint system manufacturer (fastening belts referred to WTORS need to fulfil the requirements of ISO 10542 or SAE J2249).

2) The wheelchair has not been tested for transportation in another position.

The transportation in a lateral directed position for instance is not allowed at all.

3) Depending on the size of the pushchair the maneuverability can be impaired, so that the turning of the pushchair is not or only partially possible, to position the stroller forward in the direction of travel.

4) The buggy has to be fixed with a restraint system referred to ISO 10542 or SAE J2249 with fixed belts in the front and adjustable belts in the back.

Usually this concerns snap hooks/ s-shaped hooks as well as plug closures.

The restraint systems usually consist of 4 single belts, which have to be attached to the 4 edges of the pushchair.

The attachment points of the pushchair restraint systems are marked with the international hook symbol.

5) The rehab pushchair may also be supplemented for transport with other positioning and fixation systems.

However, these are not a substitute for passenger and rehab pushchair restraint systems and may limit user comfort.

The accommodation of vehicle-anchored straps by the rehab stroller according to the test methods of ISO 7176-19 Annex D was rated as „poor“.



Without consultation with the manufacturer, no changes may be made or replaced at the fixing points of the buggy or at components of the chassis and frame. If these instructions are not observed, the Rehab Buggy may not be transported in vehicles.



In order to reduce the risk of injury to vehicle occupants, tools that are not specifically designed for crash safety, should be removed and stored separately in the vehicle safely such. eg crutches, loose pillows, therapy tables etc.

7.4 Buckling the rehab buggy passenger

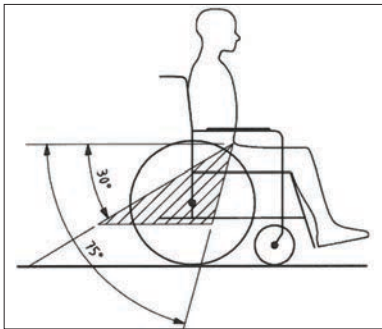


The user has to be buckled up with the lap belt as well as the shoulder belt.

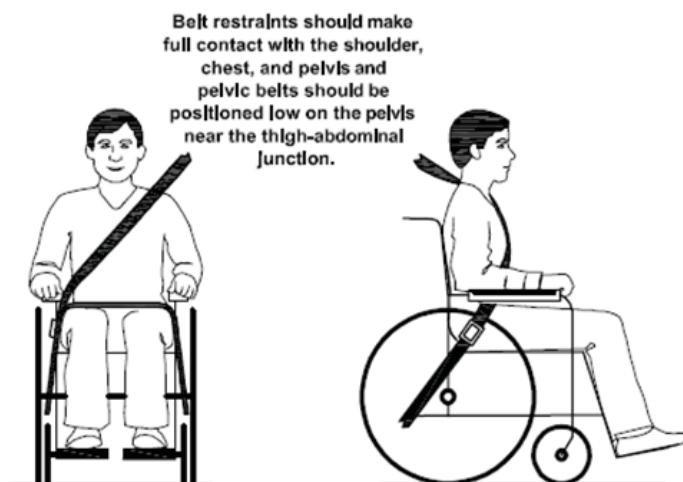


Shoulder and lap belts should be used to minimize and / or avoid potential injury from impact on vehicle components.

- 1) The person executing the attachment should be trained in the handling of the system.
- 2) Before transportation the following adjustments of the rehab buggy have to be carried out:
Seat: 0° - 5°
Backrest: 90° - 100°
Footrest: 90°
- 3) The angle between lap belt and horizontal has to be 30° - 75° .
An angle close to 75° is preferable.



- 4) The shoulder belt has to run across to chest and shoulder. The belt may not butt at the neck and may not be attached loose from the shoulder.
- 5) The belt strap may not be twisted.
- 6) The user's head should be additionally secured by a separate and permanently mounted headrest in the bus.
- 7) During transport, the drum brake must not be tightened.
- 8) Please lock the manual brake firmly
- 9) Remember, however: In the event of a traffic accident, the risk of injury can only be minimized and not ruled out, even if the passenger and rehab pushchair restraint systems are used correctly.



The lap belt and the shoulder belt must be flat and as tight as possible against the body and must not be damaged by components such as e.g. Armrests or wheels are kept away from the body and must not restrict user comfort.



As far as possible all additives should be detached and stored securely:
• crutches, loose cushions and therapy trays.



You should not rely on the occupant restraint systems unless they are marked in accordance with the requirements of ISO 7176-19: 2008.



Care should be taken that the occupant restraint is positioned so that in the event of an accident, the release button is not triggered by pushchair components and results in unintentional opening of the seat belts.



Before reusing the pushchair after a collision or an accident with a bus, the pushchair may no longer be used for transport in a bus until it has been checked for possible damage by authorized personnel and then released again.



Attachment points, front according to ISO 7176-19



Attachment points, rear according to ISO 7176-19 for lap belt



Attachment points, rear according to ISO 7176-19

8 Maintenance / Service and Repairs and operating life

Your **DURO** rehab buggy is CE approved. The manufacturer herewith guarantees that this medical product as a whole conforms to the requirements of the 93/42/EEC Guideline. The rehab buggy should be checked for correct function before every use. The items listed in the following table must be checked by the user at the indicated intervals.

Check	daily	weekly	monthly
Function test of the brake/wheel lock	X		
Check of screw connections		X	
Air pressure (indicated on the side wall of the tyre)		X	
Visual inspection of wearing parts such as wheels and bearings			X
Contamination on bearings			X
Quick release (rear wheel)	X		
Check firmness of the footrest		X	
Function test of the tilt mechanism			X
Function test of the adjustment back angle			X

Should any defects become obvious, please contact your authorized **HOGGI** dealer to eliminate them. We also recommend that you have your **DURO** serviced by your authorized dealer every twelve months.



Instructions for cleaning and maintenance

- Clean all frame components and plastic parts using mild detergents only. (e.g. Sagrotan)
- Padding parts can be washed at 40 °C. If washed in a washing machine, put them in a linen bag or a pillow case.
- In most cases, wiping with a damp cloth is sufficient
- Do not use your **DURO** pushchair in salt water.
- Keep sand or other particles from damaging the wheel bearings
- If your **DURO** gets wet, towel-dry it as soon as possible.
- Hair and dirt particles generally accumulate between the caster wheel and fork. This can restrict the caster wheels from rotating smoothly. Remove the caster and thoroughly clean the fork and caster using a mild detergent
- The rear wheels feature a quick-release system. To keep this system operational, ensure that no dirt adheres to the quick-release axle or axle housing. The quick-release axle should also be lightly lubricated regularly with resin-free sewing machine oil.
- Screw connections should be checked frequently, in particular when beginning to use the wheelchair and after any adjustment. If a screw connection becomes loose repeatedly, consult your dealer.

8.2 Operating life DURO

The expected operating life of the **DURO** rehab pushchair is 5 years, depending on intensity of use and maintenance. We recommend an annual inspection by an authorized HOGGI dealer. In case of an interference or a damage of the wheelchair it has to be checked immediately by a dealer or a medical supply store.

9 Technical data

	DURO (Size 1 / Size 2)	DURO Cross (Size 1 / Size 2)
Seat width	230 - 340 mm / 280 - 390 mm	230 - 340 mm / 280 - 390 mm
Seat depth	300 - 400 mm / 350 - 450 mm	300 - 400 mm / 350 - 450 mm
Seat angle	16° oder 20°	16° oder 20°
Backrest height	450 - 630 mm / 620 - 830 mm	450 - 630 mm / 620 - 830 mm
Backrest angle	78° - 120°	78° - 120°
Knee angle	80 - 120°	80 - 120°
Lower leg length	200 - 440 mm	200 - 440 mm
Wheel diameter rear	300 x 60 mm	400 x 60 mm
Steering wheel diameter	200 x 50 mm	200 x 50 mm
Horizontal position of axis	150 mm	200 mm
Static stability: forward / backward / to the side	max. 14° / max. 24° / max. 19°	max. 14° / max. 24° / max. 19°
Minimum turning circle	1460 mm	1400 mm
User weight / Maximum load*	75 kg	75 kg
Weight**	15,8 kg / 16,6 kg	16,4 kg / 17,2 kg
Height when folded	380 mm	400 mm
Overall length Maximal Minimal	1240 mm 840 mm	1240 mm 840 mm
Overall width Maximal Minimal	630 mm 620 mm	680 mm 670 mm
Height	1010 mm	1010 mm
Weight of the heaviest part (seat unit)	14,6 kg	15,4 kg



CAUTION!

*Accessories and add-ons reduce the remaining load capacity for the passenger proportionally.



CAUTION!

**The weights refer to a BINGO Evolution in basic configuration.

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