CareFlex

HydroTilt XL Quick Set-Up Guide UI

The HydroTilt is a flexible seating system incorporating our WaterCell Technology®, Reflexion Foam® and Tilt-in-Space technology to improve posture and pressure management for individuals with specialist seating requirements.

WARNING
A level of supervision appropriate to the user's abilities should be applied at all times.



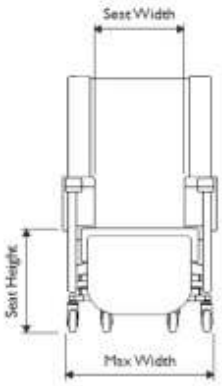
CE Class 1
Medical Device

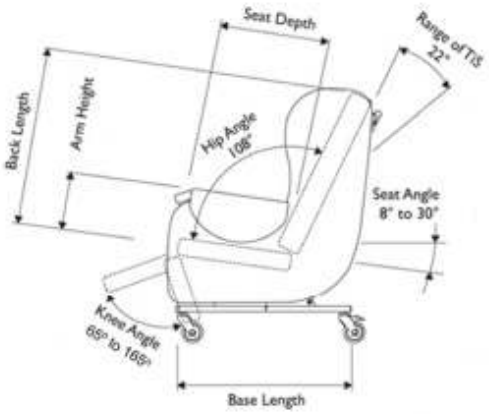
Your HydroTilt XL Chair

When set up correctly:

- The HydroTilt XL should support the user in a comfortable position.
- The Tilt-in-Space and Leg Elevation features should operate smoothly and precisely.

For your HydroTilt XL to perform correctly it is essential that you have the correct size of chair from the range to suit the client. See the table below to check sizes to user requirements.

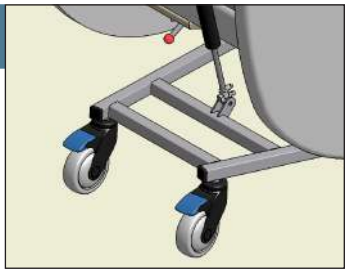




Seat Width	Seat Height	Max Width	Seat Depth	Base Length	Back Length	Arm Height
60-65 cm	56 cm	85cm	38-53cm	106cm	80cm	24cm

1. Brakes

- To locate the brakes, push the chair forward so that the rear castors swing around and the brakes can easily be accessed.
- Use your foot to press down on the end of the brake lever to lock the castors.
- Gently kick the top of the brake lever to unlock the castors.
- Always brake the castors before transferring the client on or off the chair.

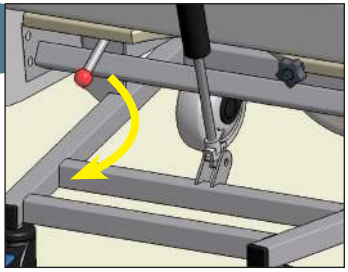


Apply the brakes by pressing down the ends of the blue levers on the rear castors.

2. Seat Depth

Seat Depth is the most important feature for the correct performance of your chair. When set correctly, the client's buttocks should be positioned right back in the seat and there should be a two finger gap between the client's calves and the front of the seat cushion. To adjust seat depth:

- Locate lever at the back left-hand side of the chair.
- Twist lever down and pull/push handle on right hand side until seat depth is in desired position.
- Release the lever and pull the handle until you feel the seat "click" positively into position.
- Never adjust the seat depth when the client is in the chair.



The seat depth release lever is twisted down to release the locking mechanism.

3. Tilt-in-Space

- To activate the Tilt-in-Space actuators and tilt the chair operate the two lower buttons on the handset and adjust the angle of the chair to the desired position.
- Do not attempt to raise the client to a standing position when the chair is tilted backwards.



4-button handset for motorised chairs.

4. Leg Elevation

The legrest can be elevated for a more comfortable seating position:

- To activate the legrest actuators operate the two upper buttons on the handset and adjust the legrest angle of the chair to the desired position.

5. Footplate

Careflex Footplate's are intended for clients with a longer lower leg length or those who require their feet to be supported. The Footplate is fixed into a bracket on the back of the legrest.

To insert & adjust the footplate height:

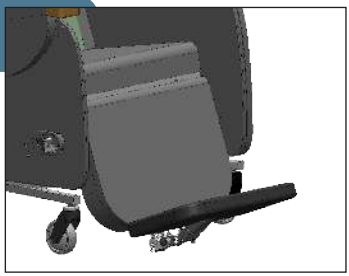
- Pull out the locating pin on the bracket, and insert the footplate.
- Slide the footplate up or down, to adjust to the desired height.
- Release the locating pin.
- The pin should 'click' into position when the footplate is properly located.
- Note the footplate stem has a ratchet and wheel safety feature. This ensures that should the footplate come into contact with the floor it will raise up out of the way, ensuring chair stability. The wheel offers some protection to the flooring.

Warning The ratchet feature is predominantly for safety, we advise that the Footplate height is reduced by hand every time the leg rest is lowered. *If your chair does not have a bracket on the legrest one can be easily retro-fitted.

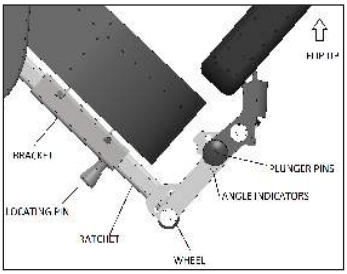
To adjust the angle:

- Ensure this operation is carried out by a competent person, and that no weight is being applied to the footplate.
- The position is set by the plunger pins as shown, each indicator offers 1 of 4 different positions. Pull out one of the plungers and twist so that it is locked off (see image).
- With one hand safely on the footplate, pull out the second plunger pin so that you can rotate the footplate to the desired setting.
- When this is achieved, lock both plunger pins into position, fully engaging with the corresponding holes on each side.
- The footplate will 'flip-up' to vertical from any position and return to its original setting.

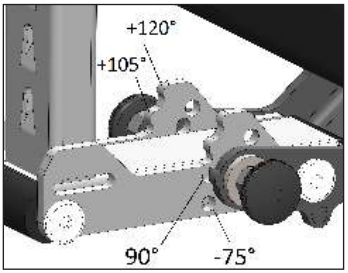
Warning! – Keep Fingers away from the mechanism when performing this task to avoid any potential finger traps.



The footplate fits into the bracket on the back of the legrest.



Parts of the footplate.



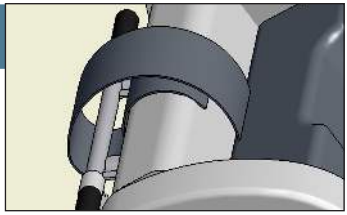
Locating the plunger pin



The footplate accommodates fixed angles of plantarflexion at the ankle, and provides a more restful ankle position whilst supporting the foot. The footplate can be adjusted and set to a choice of 5 positions; +90° (vertical), +15°, 0° (horizontal), -15° and -30°. This equates to a 120° range of adjustment. In all positions the footplate can be easily lifted up to vertical to move it out of the way.

6. Headrests

The headrest should always support as much of the client's head as possible. It can be adjusted up and down via the strap which loops around the push handle and is held in place with Velcro.

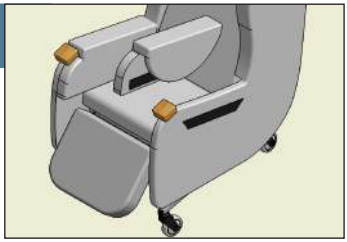


Loop the headrest strap around the push handle.

7. Adjusting Seat Width

Seat width can be easily adjusted by swapping the removable arm cushions. To adjust the arms:

- Gently separate the Velcro holding the arms in place and swap the arms for the most appropriate size.
- The semi-circular curve of the cushion must always be fitted to the outside of the chair.
- When adjusting the seat width always allow a small, equal gap either side of the client for movement.

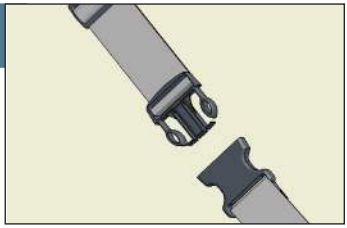


Swapping the arms for a pair with a different internal thickness allows seat width to be adjusted.

8. Pelvic Strap

The Lap/Pelvic strap length is adjusted by the two part buckle and a 'tri-glide' adjuster:

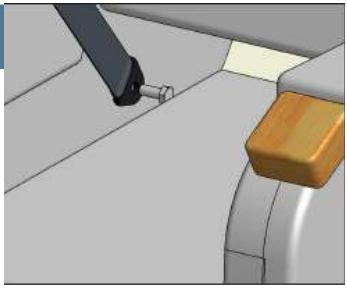
- To fasten buckle 'click' two halves together.
- To release buckle, press tabs on the sides of buckle and pull two halves apart.
- The Lap/Pelvic strap is a posture aid; it is not to be used as a restraint. The client must be supervised by suitably trained personnel at all times if they are using a Lap/Pelvic strap.



The two halves of the pelvic strap buckle.

9. Pelvic Strap - Fitting

- A pelvic strap is attached to the side panels of the HydroTilt XL behind the seat cushion. The strap is fitted through the gap between the seat and back cushions and across the client's hips at a 45o angle. This strap position is intended to keep the pelvis in an upright position by pulling the user as far back into the seat as possible.
- It is essential that the strap is always correctly adjusted. Regularly check the tension of the strap so that the client is correctly supported and cannot wriggle beneath, or otherwise become trapped by, the strap.



Bolting the pelvic strap to the rear anchor points.

To fit a pelvic strap:

- Remove the seat cushion to reveal the fixing points on each side of the seat board.
- Use a 17mm spanner to fasten the bolts (supplied) through the steel plates on the ends of the pelvic strap into the fixing points.
- Ensure the bolts are firmly tightened and replace the seat cushion.

10. Back Cushions

The HydroTilt XL is available with three different back configurations.


Waterfall Back


Flat Back


Lateral Support Waterfall Back

WATERFALL BACK

The Waterfall back consists of two lumbar cushions, one head cushion, a valance and a medium sized foam lozenge. The lumbar cushions are fibre filled with a foam core to prevent the fibre 'bottoming' out, and to help maintain the deep shaping of the cushions. The head cushion has three compartments within the cushion; the side compartments are densely filled to give support to the shoulders and the centre section provides stable head support through the full range of Tilt-in-Space.
All HydroTilt backs incorporate hidden support and shaping from either WaterCells and/or foam lozenges which are fitted in pockets on the back board of the chair. The standard Waterfall back utilizes this principle and is supplied with a medium thickness foam lozenge to sit behind the head cushion. This has the effect of moving the head cushion forward to provide head support when the chair is tilted forwards. The lozenge can be removed or complemented with additional lozenges to best suit the spine, neck and head profile of the client.

WATERFALL BACK-FITTING

If the Waterfall back is being fitted to a HydroTilt XL that was originally supplied with a Flat back, then the back cushion, lumbar WaterCells and lower foam lozenge need to be removed.
The Waterfall back lumbar cushions have a tear-drop profile. The wider, rounded edge should point down towards the seat. Tabs either side of the zip opening have loop fastenings which attach to the vertical strips of hook fastening on the back board.
Rest a lumbar cushion on the seat and attach the tabs on the cushion to the vertical strips of hook. Then, position the second lumbar cushion on top of the first so that they overlap by approximately a third and attach the tabs on the cushion to the vertical strips of hook on the back board, in the same way as the first lumbar cushion.
A medium sized foam lozenge is fitted into the top pocket on the back board. The top fabric valance attaches to the hook strip
running along the top outer edge of the back board and folds over the lozenge. The sides of the valance need to be tucked down under the bottom edges of the wings.

Although the Waterfall back is highly conforming, it still requires correct adjustment to ensure maximum comfort.
Once the occupant is in the chair, move the head cushion up/down to ensure comfortable support to the shoulders and top of the spine.
The amount of head support required will depend upon their spinal profile and the degree of Tilt-in-Space the chair is set to provide. Some change to the head cushion may be necessary as Tilt-in-Space is adjusted. The spacing between head cushion and the back can be adjusted by lowering or raising the medium lozenge already fitted, or adding/removing foam behind the head cushion.

LATERAL SUPPORT WATERFALL BACK



If the Lateral Support Waterfall back is being fitted to a HydroTilt XL that was originally supplied with a Flat back, then the back cushion, lumbar WaterCells and lower foam lozenge need to be removed.
The Lateral Support Waterfall back consists of one head cushion, a lateral contoured cushion, a lumbar roll, a valance and a medium sized foam lozenge.
The head cushion is divided by baffles which create three compartments within the cushion; the side compartments are densely filled to give support to
the shoulders, and the top section provides stable head support through the full range of Tilt-in-Space.
The lateral contoured cushion has been developed to provide additional contouring support and is positioned below the head cushion. The lumbar roll is fitted in the lowest position on the seat back, and can be easily removed to accommodate clients who have a gluteal shelf.
The cushions are fitted as already described for the standard Waterfall back, making use of hook and loop strips and working from the bottom (lumbar roll) cushion upwards to the headrest cushion.

11. Motorised System



The HydroTilt XL is fully motorised using a 24V DC Battery powered system as standard, with Tilt-in-Space and Legrest functions being controlled via the hand controller.

BATTERY CHARGING

- When first delivered and before it is used, charge the batteries for at least twenty four hours to ensure they are at full power.
- Similarly, if the motors have not been used for a prolonged period, charge the batteries for twenty four hours to restore full power.
- Establish a regular routine for battery charging; charging the batteries overnight is recommended.
- The battery unit will sound an audible warning signal when the battery is nearing its minimum recommended charge. Charge as soon as possible once this signal is heard.
- **Only chargers supplied by CareFlex should be used. Do not use a CareFlex charger to charge other products.**
- Fit the jack plug connected to the charger into the socket on the hand control unit.
- Plug the charger into a 240V AC mains electric supply and switch on the power to the charger.
- At the end of the charge cycle, switch off the charger and disconnect all charger lead
- **Do not leave the charger connected to the chair with the mains power off**
- **Do not move the chair with the charger connected**
- **Do not charge the chair when there is a client in the chair**

12. AutoTilt Option



The AutoTilt facility has been developed to enhance the features of pressure management already found in the HydroTilt, and to make more efficient use of the healthcare resources needed to achieve good pressure care.
AutoTilt reduces the amount of carer input by automatically adjusting the position of the chair at timed intervals. Every 20 seconds two microprocessors move the HydroTilt XL through 0.5o of travel—just enough to be perceptible to the occupant and to slightly re-focus the pressure points on the body. The AutoTilt cycle starts from a seating angle of 20o with the occupant safely and securely positioned; AutoTilt then moves through 12o in a period of 8 minutes, gently tilting the HydroTilt XL back and returning, over the same period of time, to its starting position.

AUTOTILT IN USE

AutoTilt can be programmed to repeat this cycle for one or eight hours, ensuring optimal pressure care for those that need it most.
A chair fitted with AutoTilt has six buttons on the hand controller, instead of the usual four.

- By depressing the bottom left button, the 1 hour cycle will begin.
- By depressing the bottom right button, the 8 hour cycle will begin.

If the chair is fully upright it will begin to tilt backwards at the prescribed intervals. Once it has reached its maximum backwards tilt it will begin to return to a more upright position. It will stop at the half-way point of the Tilt-in-Space range and begin to return to full maximum backwards tilt. This pattern will repeat until either the 1 hour or 8 hour cycle has elapsed.

Looking after your HydroTilt XL

Care & Maintenance

- When the chair is delivered and every time it is used, check the chair over for signs of damage or excessive wear.
- If your chair shows signs of excessive wear, damage or incorrect performance, please take it out of service immediately and contact CareFlex or your local CareFlex Distributor.
- If the client is experiencing severe discomfort, do not use the chair. Take it out of service immediately and contact CareFlex or your local CareFlex Distributor.
- The HydroTilt XL is upholstered in high quality material which is waterproof and fire retardant. However, do not store or use the chair in damp or wet areas.
- Do not attempt to carry out any structural maintenance or adjustment of your HydroTilt or its accessories without consulting CareFlex or your local CareFlex Distributor.

Full details of accessory set up can be found in the HydroTilt Accessories User Instructions booklet. Details of cover material care and maintenance can be found in the Fabric Guide. Both are available in hard copy on request from CareFlex, or are free to download at www.careflex.co.uk.

Look after your HydroTilt and it will provide years of trouble-free service.

Identification

Each HydroTilt chair has a unique chair number which must be quoted during any correspondence with CareFlex or your local CareFlex distributor. This is on a silver foil label on the bar which the top of the Tilt in Space action is attached to. On motorised chairs, the rear valance panel will need to be pulled back to see this bar. On older chairs, the number is on a label behind the top left hand corner of the back cushion. (Always refer to left and right as you are sitting in the chair).

Important Safety Information

- Please take the time to familiarise yourself with all the aspects of the chair and its functions before using the chair.
- Do not 'ride' on the push handles or subject them to excessive loads.
- Do not sit on the legrest or subject it to excessive loads.
- Do not attempt to stand on the footplate.
- Do not tip the chair backwards to ascend steps or overcome thresholds, especially if a client is sat in the chair.
- Always ensure that the client's feet do not drag on the ground when the chair is moved by elevating the legrest to lift their feet off the floor or using the footplate.
- Always ensure that there are no obstructions under the chair and that there is plenty of space around the chair before using the tilt in space facility.
- Always apply at least two brakes when the client is transferred to or from the chair.
- Always try to avoid storing or using the chair in areas where it may obstruct exits or passageways.
- The HydroTilt must never be used in motor vehicles for client transportation.
- Do not charge the chair's batteries when a client is sat in the chair (Motorised versions).
- Do not move the chair if the charging lead is connected between the chair and mains power supply.

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