COBI REHAB

USER MANUAL

The Cobi Cruise 2.0 bariatric comfort wheelchair

The Cobi Cruise bariatric comfort wheelchair. The most powerful wheelchair on the market for use in the rehabilitation of bariatric users.

The Cobi Cruise comfort wheelchair is used in care centres and hospitals, in home care and in private homes for bariatric users in need of a comfort wheelchair with a pressure-relieving seat. Crash tested successfully according to ISO 7176-19.

CRASH TESTED
ISO 7176-19

Designed by
COBI REHAB

UP TO 325 KG

- Used in all phases of rehabilitation, from the bedridden user to the mobile user.
- The Cobi Cruise comfort wheelchair is equipped with tilt-in-space and recline functions which are activated via a controller and operated by both user and care staff.
- Armrests that can be angled and pushed away for e.g., transfers or social activities at a table.
- Disinfectable and washable in laundry room at e.g., a depot or a hospital.

CE
MD

Cobi Rehab and Cobi Rehab suppliers comply with the UN conventions on child labour and forced labour as well as ILO 029, C132 and C182.

Contents

1. Safety

WARNING

Do not use the Cobi Cruise 2.0 comfort wheelchair without thorough instruction from trained staff or from persons who have received instruction in the use of the wheelchair. Improper operation may injure the user.

Using the Cobi Cruise comfort wheelchair for people weighing more than the maximum user weight of 325 kg increases the risk of damaging the wheelchair.

Read this user manual carefully before using the Cobi Cruise comfort wheelchair. Pay particular attention to Safety Instructions marked ⚠.

Cobi Rehab assumes no responsibility for any damage to the product nor for personal injury caused by incorrect installation, incorrect mounting, or incorrect use of the Cobi Cruise wheelchair.

Immediately contact Cobi Rehab if parts are damaged or missing. Never use your own spare parts.

Cobi Rehab cannot be held responsible for errors or accidents occurring after repairs are made without the written permission of Cobi Rehab.

SAFETY INSTRUCTIONS

In this user manual, the symbol ⚠ indicates a safety instruction. Follow safety instructions carefully.

The care staff assesses whether the user should be restrained in the Cobi Cruise 2.0 comfort wheelchair during use for safety reasons.

Always lift users not able to stand and walk in and out of the Cobi Cruise comfort wheelchair.

Always take care when using the tilt-in-space and recline function to avoid jerky movements.

The maximum user weight of the Cobi Cruise comfort wheelchair is 325 kg.

The stopping distance on slopes can be significantly longer than on even ground.

The surface temperature can rise when the wheelchair is exposed to external heat sources e.g., sunlight.

Due to their large width, certain Cobi Cruise models may have difficulty passing through ordinary doorways and emergency exits.

Always use helper control for users with impaired cognitive function.

Always ensure that the wheelchair is charged.

2. Indications

	Caution!
	Double insulated (class II)
CE	Declaration of conformity, Medical Device Regulation, EU 2017/745
IPX6	Water resistant class
	Max. 10° slope of ground
	Tie-Down brackets for fastening the wheelchair in a motorised vehicle.
	Crash tested according to ISO 7176-19
	Dispose of through correct waste management
REF	Cobi Catalogue number
SN	Serial number
	Year of manufacture
	Manufacturer
MD	Medical device
	Max. user weight
	Consult the manual
CE-Label located at the frame. See an example of an CE-label below.	

3. General comments

This user guide contains important information about the use of the Cobi Cruise 2.0 comfort wheelchair and the target group for the wheelchair. It also includes a wide range of specifications on the Cobi Cruise comfort wheelchair.

The most recent version of this user guide can be found on our website. Check if the version you are reading now is the most recent.

If you need a user guide that is written in a larger font size, the product sheet is available in PDF format at cobirehab.com, which can be scaled up to the required font size.

You can always contact Cobi Rehab on telephone +45 7025 2522 or e-mail cobi@cobi.dk if you want more information about the Cobi Cruise comfort wheelchair.

Cobi Rehab reserves the right to change the product specifications without providing prior notice.

The UDI number of the wheelchair appears on the label, which is located on the side of the frame.

Product safety notices and product recalls can be viewed on the website.

Crash tested

The Cobi Cruise comfort wheelchair is crash tested according to ISO 7176-19.

4. Application

The Cobi Cruise 2.0 comfort wheelchair is designed for indoor use, e.g., in hospitals, institutions and in care homes. The Cobi Cruise comfort wheelchair can also be used in private homes.

The Cobi Cruise comfort wheelchair is intended for bariatric users up to 325 kg whose ability to stand and walk is limited.

The intended operator of the Cobi Cruise comfort wheelchair is a health professional, such as a therapist, nurse, or a social and health worker.

The intended operator could also be the bariatric user with trunk stability and the ability to drive, control and stop the wheelchair.

The Cobi Cruise comfort wheelchair can be used in ambient temperatures of 0°- 40°C and a humidity of 20 - 80%.

Counter indications

Always monitor and guide users with reduced cognitive function in the user of the electrical functions of the wheelchair.

Crash tested in accordance with the ISO 7176-19 standard

The Cobi Cruise Power comfort wheelchair is crash tested which means it can be used in Community Transport vehicles or adapted vehicles for transporting wheelchair users without them being removed from the wheelchair itself.

The wheelchair will need to be secured to the vehicle by a Transit Tie Down System (accessory).

Safe transport is a key element in a wheelchair user's ability to access medical facilities as well as to improve quality of life, by being able to enjoy day trips out and holidays.

5. Construction

The Cobi Cruise comfort wheelchair is constructed from S355 high-tensile steel. The rectangular steel profiles of the chair form the basis for its base frame. The base frame is made up of two mirror-inverted parts (a right and a left part) connected by a centre module. This structure allows the sides to be reused if the width needs changing.

The seat frame of the wheelchair consists of 30x30x2 mm high-tensile steel profiles. In addition, the seat frame has a 2 mm steel seat plate attached to it, which helps to distribute the pressure in the best possible way.

The back of the wheelchair consists of a high-tensile steel profile. The profile is positioned centrally on the back of the wheelchair. The angle of the profile means that the back supports both apple-shaped and the pear-shaped users. Three back plates are mounted on the profile. The back plates are curved to hug and support the user from buttocks to neck.

Curved back plates support and hug the user from buttocks to neck.

Pear-shaped users with voluminous backsides are ensured good back support, as the design of the "spine" of the wheelchair and its lower back plate provide space for the backside.

The upper two back plates ensure that apple-shaped users enjoy stable and comfortable back support.

The back cushion is divided into nine modules, which are sewn together into one large cushion. All nine modules consist of two parts. A firm foam layer and layer with a mixture of polystyrene beads and latex foam.

The foam layer faces the back of the wheelchair while the bead and foam layer are the one sat on by the user. The bead and foam mixture are modular and helps to increase the comfort of the wheelchair and its pressure relieving effect.

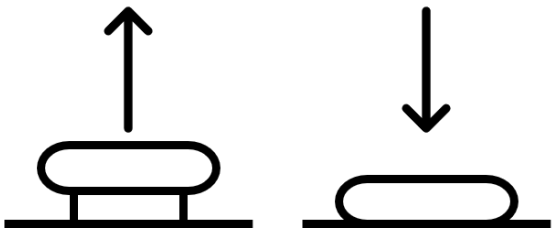
The contents of in each cushion module can be adjusted. This means that, according to professional assessment, the therapist or care staff can add or remove beads and latex foam. If necessary, a wedge cushion can also be inserted in one or more modules. The cushion contents are adjusted via the nine zippers located on the back of the cushion.

The modular cushion follows the shape of the back plates and, thus, ensures correct support regardless of user's body shape and needs.

The modular cushion can be finely adjusted using a patented FitGo system known from ski boots and work shoes. The FitGo system is located on the back plates.

The back cushion is made up of nine modules sewn into one large cushion.

Each of the nine back cushion modules of the back cushion consists of a firm foam layer and a layer of beads and latex foam.



The FitGo system comprises an adjusting knob. The button is activated when pressed. If the button is to be loosened, pull it upwards and the cord pull is then released.

⚠The FitGo system should only be adjusted by care staff as improper pressure distribution may harm the user.

5.1 The seat cushion

The base of the seat cushion consists of hard foam. The core of the seat cushion consists of memory foam specially selected for the target group.

The top consists of soft foam. The seat cushion is upholstered with a flame-retardant incontinence cover.

The seat cushion is made up of three different types of foam.

5.2 Armrests

Extra-long armrests (615 mm) ensure stability and a good grip when the user moves from a standing to a sitting position or vice versa.

The armrests can swivel back, making it easier to move the user from e.g., the chair to the bed. The arm rests can also be pushed down making it possible to move the wheelchair close to the edge of a table, allowing the user to participate in social activities there.

The armrests are padded for extra comfort and "cup-shaped" thus reducing the risk of pressure ulcers. Each armrest can withstand a maximum load of up to 200 kg.

⚠ Caution: The user may fall out of the wheelchair if the armrest is pushed back.

Extra-long and strong armrests.

5.3 Push bar

The handlebar is flexible and adjustable, using a click system. Major adjustments can be made with tools. The bar has several grip points, depending on whether the chair is to be pushed or manoeuvred.

⚠ Ensure that the handlebar is in place.

Swivelling armrests allow positioning near a table.

5.4 Leg rests

The leg rests each support up to 200 kg and are adjustable in both height and position. They also have a swivel function that allows easier access to and from the wheelchair.

The angle of the foot plates, the height/angle of the leg rest and the angle of the calf plates can be adjusted without tools.

The position of the foot and calf plates is adjusted using a 10 mm closed spanner and a Torx 25. The closed spanner and the Torx is not included in the purchase of leg rests.

The flexibility of the leg rests means that the user's legs can always be supported. This benefit, inter alia, users with a significant tissue on their inner thighs.

The leg rests may be removed without the use of tools without affecting stability.

⚠ Do not use the leg rests when getting in and out.

Leg rests each supporting up to 200 kg.

The leg rests can be dismantled without using tools.

5.5 Neck support

The wheelchair neck support is an option. The wheelchair is supplied with a universal neck support bracket, allowing for the installation of different types of neck support.

A universal neck support bracket permits the installation of several types of neck supports.

5.6 Wheels

The Cobi Cruise comfort wheelchair is equipped with two 24” drive wheels. The drive wheels can be placed in five different positions (with tools).

The two front positions are intended the active user, who thereby gets easier access to the wheels. The three rear positions are intended the passive user who is not expected to drive the wheelchair.

5.7 Anti-tip

The Cobi Cruise comfort wheelchair is installed with anti-tip that can be adjusted to suit the terrain. Only remove the anti-tip when transporting the wheelchair without a user.

⚠ Risk of tipping when anti-tip is removed.

Two actuators (marked blue) control the tilt-in-space function. One actuator (red) controls the recline function.

5.8 Actuators

The Cobi Cruise comfort wheelchair has three actuators. Two seat actuators and a back actuator. The two seat actuators control the tilt-in-space function. The seat actuators are installed under the seat.

The back actuator controls the recline function. The back actuator is also installed under the seat.

5.9 Brakes

The two parking brakes are located on each side of the frame and can be operated by both user and caregivers.

The disc brakes are operated by means of a brake lever mounted on the push bar. The brake lever can only be operated by the caregiver.

The Cobi Cruise comfort wheelchair is equipped with both hand brakes and disc brakes.

5.10 Control box

Dismantling the control box requires tools but should only be undertaken by Cobi Rehab service engineers.

The electronics are IPX6-classified. This means that the wheelchair and its components can withstand high pressure and heavy sprays of water.

The electronics of the wheelchair does not disturb the operation of units in the surrounding environment which emit electromagnetic fields, e.g., alarm systems in shops, automated doors, etc.

6. Electric tilt-in-space and recline

Negative tilt helps the independent user in safely getting in and out of the wheelchair. Negative tilt means that the front of the seat cushion is lowered. This reduces the access height which, in turn, makes getting in and out easier for the independent user. The function negative tilt is activated using the controller.

Recline provides the apple-shaped user with supported and comfortable seating. When the back of the wheelchair is tilted backwards, the pelvis of the user is automatically opened. This provides improved respiration for apple-shaped users. The recline function is controlled using the same controller as for the electric tilt-in-space function.

⚠ Erroneous use of the tilt-in-space and recline functions can lead to the user experiencing respiratory difficulties, including users with impaired cognition.

⚠ Using the negative tilt function may cause the user to slide forward.

6.1 Controller

The battery indicator is shown at the top of the remote control. Be sure to charge the wheelchair when the battery flashes in the red box.

The illustrations indicate which functions are activated by pressing the arrows. The arrows on the top illustration activate the recline function. The wheelchair can recline from 90°-120°.

The arrows in the lower illustration activate the tilt-in-space function from -4°-13°.

In the event of an irregularity, the RESET function must be activated. Press and hold down the two arrows, marked with a red dot, for 5 seconds, after which the various functions can be accessed again.

After a RESET procedure, it is important to check that all three actuators are still functional. The wheelchair can be damaged if, for example, one of the seat actuators has a loose connection. Such a loose connection can twist the wheelchair.

⚠ Misuse of the RESET button can damage the user and wheelchair.

The controller has:

- A battery indicator
- Tilt-in-space function
- Recline function
- RESET function

7. Before use

When the user is placed in the wheelchair for the first time, the need for extra filling in the various back modules must be professionally assessed.

If extra filling is needed, move the user out of the wheelchair, after which professionally trained staff adds or removes filling from the cushions in question.

If additional support is needed, a wedge system can be used. This assessment is made by professionally trained staff during the actual adjustment.

7.1 From bed to wheelchair

If the user can independently move from bed to wheelchair:

- Swivel the footrests to the sides
- Adjust the seat angle to the needs of the user
- The user sits in the wheelchair
- Swing the footrests back into position if required for the activity.

When moving a passive user from bed to wheelchair using a sling:

- Swivel the footrests to the sides if required by the user
- Adjust the seat angle to the needs of the user
- Adjust the hip angle of the backrest depending on the needs of the user
- Tilt the wheelchair backwards
- Slide back one arm rest. Lift user sideways into the chair
- Swivel back the footrests
- Slide back the arm rest.

8. Possible adjustments

8.1 Adjusting the back module

When the user is placed in the wheelchair for the first time, the need for extra filling in the various back modules must be professionally assessed. If extra filling is needed, move the user out of the wheelchair, after which professionally trained staff adds or removes filling from the cushions in question.

In addition, the tilt-in-space and recline function enables changes in position and optimises the conditions in connection with moving in and out of the chair.

The seat depth can be adjusted in several ways, e.g., by using the FitGo system or by adjusting elements in the back cushion. In addition, the seat depth can also be adjusted.

However, the latter adjustment requires a technician. Cobi Rehab recommend completing this before starting the specific adjustment.

⚠ Risk of fingers getting caught between the seat and the frame when tilting.

⚠ Risk of tissue getting caught between arm rest and back when reclining.

8.2 Other possible adjustments

Adjust leg rests to lower legs of the user. Adjust the angle of the foot plates in relation to the user's positioning of the feet. Adjust the calf support to provide the user with both support and relief of the calves.

The angle of the arm rests can be height-adjusted and adjusted in a perpendicular position or in a downward-facing position, allowing the user to move close to a table. The arm rests can also be pulled back in connection with the application and/or removal of slings.

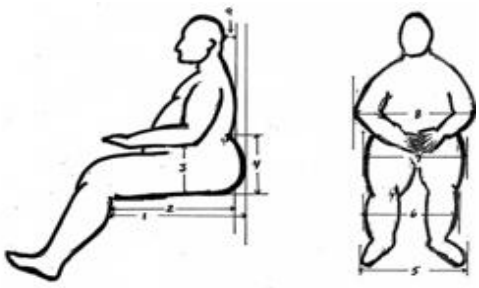
The above adjustments are made by pulling out the button on the bracket at the front of the arm rest.

The neck support bracket of the Cobi Cruise comfort wheelchair is universal. This allows for the installation of the most suitable neck support.

8.3 Measuring the user

Always measure the user when the user is seated.

If help is needed in terms of measuring the user, please contact Cobi Rehab on telephone +45 7025 2522 or at cobi@cobi.dk.



⚠ **Risk of crushing or getting caught**
Be careful not to get the user's tissue or fingers caught when adjusting the arm rests. This also applies when using the swivelling function of the leg rests.

9. Maintenance and cleaning

The Cobi Cruise comfort wheelchair is easy to clean. If the seat needs disinfecting, remove, and disinfect it using ethanol 70-85% or a chlorine product of min. 1000 ppm and max. 10000 ppm.

Clean the frame, seat and arm rests of the wheelchair using water and a regular cleaning agent.

The controller can be disinfected using ethanol 70-85% or a chlorine product of min. 1000 ppm and max. 10000 ppm.

The Cobi Cruise comfort wheelchair can be washed in a laundry room at e.g., a depot or a hospital.

⚠ All electronics must be removed from the wheelchair before being washed in a laundry room.

10. Transport and storage

When the Cobi Cruise comfort wheelchair is not in use, store in a dry place at a temperature between -10°- 50°C.

The Cobi Cruise comfort wheelchair is suitable for land transport (when not accommodating a user). The Cobi Cruise comfort wheelchair cannot be folded as it has a fixed frame.

To avoid injuries to e.g., the back, we advise against carrying the 120 kg wheelchair.

The Cobi Cruise comfort wheelchair can be lifted by the frame if it is to be transported (without a user) in a motorised vehicle.

Crash tested

The Cobi Cruise comfort wheelchair has been crash-tested. This means that it can be used as a seat for a bariatric user in a motor vehicle.

Fasten the wheelchair in the motorised vehicle using the supplied Tie-Down brackets. The four brackets are marked with the Tie-Down symbol and have four points.

Lower the seat of the wheelchair to its lowest position to reduce the risk of damage.

When transporting the Cobi Cruise, we strongly recommend adjusting the seat to 0° position as a minimum. If possible, we recommend adjusting the seat to -4° position. We also recommend adjusting the back to 97° or less.

10.1 Long-term storage

When storing the Cobi Cruise comfort wheelchair for longer periods of time (3+ months), store the wheelchair at 0°-30° degrees and in a humidity not exceeding 75%.

We recommend charging the battery to 40–60% prior to storage.

When putting the wheelchair into use again after long-term storage, connect it to the supply and charge it for at least two hours.

Keep an eye on the battery capacity as the battery will discharge over time.

Only use the Tie-Down bracket with approved attachment systems that comply with EU 214/2014.

11. Recycling and disposal

Dispose of products that are no longer in use in an environmentally safe manner. Contact your local authority for further information on disposal.

Contact Cobi Rehab for further information on the recycling of lithium batteries and wheelchair parts.

12. Warranty

Cobi Rehab warrants that the Cobi Cruise comfort wheelchair is without defects on delivery. If, against all expectations, the wheelchair is subject to deficiencies or defects on receipt, please contact Cobi Rehab immediately.

The warranty period for the Cobi Cruise comfort wheelchair is one year from the date of purchase and covers manufacturing defects or defect on receipt. The invoice is your certificate of warranty.

The warranty does not apply to:

- products on which the serial number, batch number or the like have been removed or significantly damaged.

- products which have been repaired by unauthorised personnel.

The warranty does not cover:
- wearing parts.

This warranty does not apply when Cobi Rehab assesses that the Cobi Cruise comfort wheelchair has been improperly operated.

For damage caused by improper operation, an invoice will be issued for both the service and the spare parts used.

12.1 Unintended incidents

Report any unintended incidents relating to the use of the Cobi Cruise comfort wheelchair to Cobi Rehab.

12.2 After expiry of expected service life

After the expected service life, it is important that an overall assessment of the product is made before continued use.

After the expected service life, Cobi Rehab cannot guarantee the suitability and safety of the product, as Cobi Rehab has no control over how the product is used and wear and tear.

The overall assessment of the product must be carried out by qualified professionals, and as a minimum, consideration must be given to how the product has been used, the condition of the product and its components.

Cobi Rehab can always make such an assessment.

13. Specifications

Max. user weight	325 kg
Risk class	I
Basic UDI DI	5740000100023N6
Expected product service life	Minimum 7 years
Crash tested	Yes, according to ISO 7176-19
Seat depth	480-600 mm, at 30 mm intervals
Back angle	90°- 120°, continuously variable
Seat angle	-4 - 13°
Height from front of seat to ground (Height stated without cushion. Add 100 mm if cushion included)	337-551 mm
Height of back rest	613 mm
Max. length excl. footrests / incl. footrests	approx. 1246 mm - 1773 mm
Min. length excl. footrests / incl. footrests	approx. 987 - 1054 mm
Seat width	550-1000 mm, at 50 mm intervals. 100 mm between 700 and 1000 mm
Max. total width	676-926 mm
Max. total height	1115 mm
Max. weight of wheelchair	100 kg
Max. upwards inclination	10°
Max. downwards inclination	10°
Max. sideways inclination	10°
Massive tyres	Massive tyres with PU core
Frame tubing (material)	S355 high-tensile steel
Seat cushion filling	CMHR 50250 (base), Visco 45060 (core), CMHR 4038 (top), flame-retardant
Back cushion filling	CM 2740 (base), Cut latex and EPS-beads (the front), flame-retardant
Back and seat cushion	Covered in incontinence cover (G469 black), flame-retardant
Arm rest cushion	Foam (CMHR4250 and RF5060), cover durable imitation leather (Temskay Leather), flame-retardant
Cushion in foot and lower leg support	Foam (CMHR4038), cover durable imitation leather (Temskay Leather), flame-retardant
Push bar	S355 high-tensile steel
Wheel forks	Aluminium
Footrest tubing	Steel
Foot plate	S355 High-tensile steel
Turning radius (Pivot)	100-120 cm

Foldable	No
Battery	Li-Ion 24V 2,6 Ah
Three actuators	LINAK LA23
Control box	LINAK
Controller	LINAK HB30
Wheelchair, including components	DS/EN 12183: 2014, in accordance with ISO 7176
IP-code	IPX6
Risk assessment	EN/ISO 14971: 2012
General requirements and test methods	EN 12182:2012

14. Accessories and spare parts

Accessory	Part number
Elevation leg rest R	0115-999-006
Elevation leg rest L	0115-999-007
Cobi Cruise IV-holder with installation bracket(s)	0115-999-090
Neck support	Contact us for the choice of neck support
For spare parts, please contact Cobi Rehab on telephone +45 7025 2522 or at cobi@cobi.dk	

COBI REHAB

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