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Triton/Dual

Height adjustable
Shower & toilet chair
with tilt

User manual - UK

Important information

Read user manual before taking this product into use.

This user manual is intended as a guide for caregivers and other users, as well as technical personnel during servicing and maintenance of the product.

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1 PURPOSE AND SAFETY

Triton Dual is an electrical powered shower and toilet chair with the ability to position height and seat tilt. The chair is rated for 150 kg and can be used in homecare, nursing homes, institutions and hospitals.

1.1 Purpose

The purpose of Triton/Dual is to assist the user and caregiver in the daily personal hygiene activities. With the ability to adjust the height and seat tilt, Triton/Dual takes both the user's comfort and the caregivers optimal working position into account. Activities that the chair can be used for could be:

- Toileting, either in bathroom or other suitable places with a bed pan.
- Showering or personal hygiene depending on the facilities available.

The digital control box makes Triton/Dual a more user-friendly toilet/shower chair. With the four advance buttons on the hand control it allows the use a memory functions and a transport position which makes short transfers in the chair easier.

Due to the LINAK components being rated IPx6W DURA™, Triton/Dual can be cleaned in a washing machine up to 250 times. The international standard only requires 50 washes, but with the high-quality components selected, this number is increased 5 times.

After thorough cleaning Triton/Dual can be used by multiple users (See 4.1).

Triton Dual is not a wheelchair and therefore not intended for longer transfers. Short transfers e.g. within a room or to and from the bathroom are allowed.

Note: Do not use Triton Dual for purposes other than originally intended.

1.2 Safety instructions



Important - Warning!

Read user manual and safety instructions before using the product.

- The maximum capacity of 150 kg must **NEVER** be exceeded.
- **NEVER** use the chair if there are suspicions of defects (abnormal sound, loose brackets etc.). In this case take the chair out of service and contact a service technician, your dealer or WinnCare Nordic.
- **NEVER** leave the user alone in the chair
- **NEVER** lift higher than necessary.
- Always have the armrest folded down during use. If not possible for a given reason, be extra cautious about the user.
- The footrests should always be folded up before the user sits or stands up from the chair.

- During use and especially near obstacles and small rooms, it must be ensured that the user sits quietly and keeps the arms inside the armrests to prevent damage.
- The caregiver should always use the handles for movement when using the chair. Do not use feet to push the bottom frame when turning, accelerating or similar.
- Smoking of cigarettes or similar and use of open flames such as matches are not allowed during use of Triton/Dual
- Under special circumstances a build-up of static electricity can occur (e.g. using on a plastic floor or in very dry air). These conditions should be avoided but are not dangerous for the user.
- Always activate the brakes, if there is any danger of inadvertent movement e.g. on a ramp or slope and during normal use. For safety reasons, it is recommended to activate the brakes when the user is transferred to and from the chair and whenever possible.
- When using the chair with other equipment ensure that no dangerous situations can occur. Keep an eye out for wires, slings, tubing, etc.
- Make sure that the chair is correct positioned for the user and neither the user or caregiver is injured during use. See chapter 1.3 – before use.
- Surfaces that come into contact with skin, can become hot/cold when exposed to external sources, such as sunlight or cold temperatures. Always check before use.
- According EMC. Electrical interference from portable RF communications equipment including antennas, can affect medical electrical equipment and should not be used within a distance of minimum 30 cm (12 Inch.) from Triton/Dual.

It is the responsibility of the caregiver, to ensure that the chair is used correct and safe.

1.3 Before use

The caregiver or user is responsible for making the following checks before use:

- 1) The caregiver has received instructions in how to use the chair or read the user guide
- 2) Check, that no parts are missing, and the product is assembled correct.
- 3) Check, that the accessories are mounted correctly, and suited the user.
- 4) Check the chair for abnormal sounds, signs of wear, tear or other defects.
- 5) Check, that the battery alarm does not sound when used.
- 6) Check that the annual service check has been carried out.

If in doubt about how to use the chair, please contact your dealer or Winncare Nordic for advice and guidance.

1.4 Terminology



1.5 Unpacking

Check that all the parts are present and undamaged. Any suspicion of damage or shortage should be reported to your dealer or Winncare Nordic.

Winncare Nordic recommends that the packing carton is stored for later transport or return shipment.

Contents of the box

- 1) Triton/Dual
- 2) User manual

1.6 Transport

If the Triton/Dual is to be transported between sites it is recommended to use the original packaging.

In case of return shipment of Triton/Dual the original packaging must be used. If unable to do so the user must find a suitable alternative that ensures proper protection of Triton/Dual during transport.

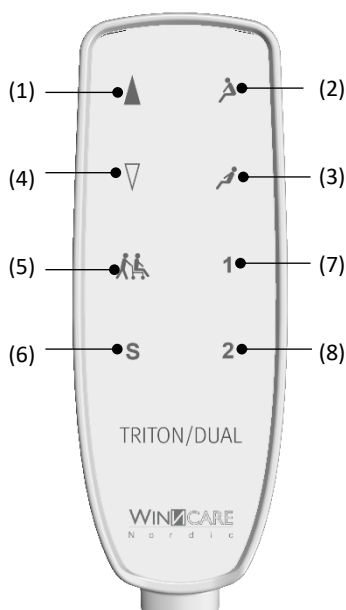
Symbols are printed on the packaging to ensure the best information for carrier companies.

2 INSTALLATION AND OPERATION

Note: Before use, the battery should be charged.

2.1 Pictogram and functions

Hand control:



- (1) **UP.** Adjusts the seat height. If the seat is positioned between $+7^\circ$ and -5° , the UP button will tilt the chair to -5° simultaneously.
- (2) **TILT FORWARD.** Adjusts the seat tilt up to $+7^\circ$.
- (3) **TILT BACKWARDS.** Adjusts the seat tilt down to -30° .
- (4) **DOWN.** Adjusts the seat height. If the seat is positioned between $+7^\circ$ and 0° , the DOWN button will tilt the chair to 0° simultaneously.
- (5) **Transport position.** Lifts and tilts Triton/Dual to a position recommended for making short transfers.
- (6) **Store/Save.** Position the chair in the desired position. Press and hold (6)+(7) or (6)+(8) two seconds. The control box gives 1 or 2 beeps if done correct.
- (7) **Memory 1**
- (8) **Memory 2**

Press and hold buttons will move the chair in the desired direction. Release the buttons to stop the movement.

Type plates with serial number and electrical details are placed behind the battery and control box



2.2 Charging

Triton/Dual is charged with the cable attached to the chair. Connect the cable to a power outlet.

It is recommended to charge the battery regular, such as overnight or when not in use.

Note: During storage, charge the battery at least once every 12 months.



The charging cable must not be removed from the chair at any time.

If Triton/Dual was recently used in a wet environment or cleaned, make sure the plug is dry before inserting in a power outlet.

The battery is equipped with a buzzer, that will signal when it is about to run out of power:

LOW battery



A constant warning signal is heard when any button on the hand control is pressed. When the warning signal is heard the chair should be charged even though there are at least 5 to 15 lifting cycles left.

The battery is fitted with a LED, which gives the following information concerning battery condition during use:

LED colour	Indication of
Solid yellow	Charging
No LED light while the charging cable is connected	Fully charged
Flashing yellow	Error during charging



Note: It might take up to 15 seconds from the charge cable is connected to the LED lights up. The battery cannot be overcharged.

2.3 Emergency Stop and lowering

Triton/Dual is fitted with a digital control box using an OpenBus system. This eliminates any hazardous situations which could be created from a short-circuited wire or defect electrical component.

Triton/Dual is produced in two versions:

- 044-00050 Without emergency stop and lowering.
- 044-00051 With emergency stop and lowering.

The red emergency stop is located next to the control box. Push to lock, turn to reset.

The black emergency lowering button can be used to lower the chair if e.g. the hand control or control box is defect. Press and hold to lower the chair. Release immediately when the actuator reaches its innermost position.



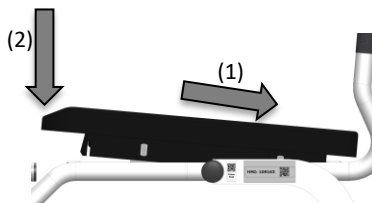
When the emergency stop is activated, Triton Dual cannot be charged. All functions including emergency lowering are disabled.

The emergency lowering button is only to be used in case of an emergency. After use, the control box must be reset, see 5.1.

2.4 Seat and backrest

The seat and backrest can be removed to make cleaning easier.

The seat is removed by lifting the front of the seat. It is mounted again by sliding it up against the rear square tube (1) and pressing downwards on the front (2) as seen in the figure.



The backrest is removed by opening the 4 buckles. The straps can be used to adjust the tension of the backrest, so it fits the user.



2.5 Foot support

Note: Triton/Dual with accessories should always be adjusted according to the user.

Triton/Dual comes with a pair of foot supports.

The foot support is mounted by placing it in the vertical pipe on the front of the chair while aligning it with the vertical pin.

The foot support is removed by lifting it.

Foot plate:

The height of the foot plates can be adjusted by loosening the hand screw. Make sure to tighten the screw at the desired position.

The angle of the foot plate can be adjusted by loosening the small screw with an Allen key. Make sure to tighten the screw at the desired position.



2.6 Headrest (Add on)

The head rest is height- and depth adjustable.

The position can be adjusted by loosening one or all three star knobs.

Note: On some models, the width of headrest can be adjusted as well.



2.7 Direction lock (Add on)

One of the traditional castors with total-stop brake can be replaced with a direction lock castor. The castor has a green pedal instead of a red one. The direction lock should be used when the chair is being positioned over a toilet or when driving in a straight line.

Note: The direction lock increases the height of Triton/Dual with 7 mm.

3 USING TRITON/DUAL

3.1 User types

Triton/Dual can be used by users that are able to walk or needs to be transferred to the chair.

If the user needs to be transferred to the chair with E.G. a ceiling lift, the armrests can be turned to their vertical position for easier access.

Note: Always have the armrests folded down when using Triton/Duals lifting and tilting capabilities.

To make it easier for users that can position themselves in the chair, it is recommended to tilt the chair forwards.

3.2 Basic use

The top four buttons on the hand control are used to adjust the height and seat angle of the chair.

The lifting function should be used to position the user above the toilet or in a position where the caregiver can assist the user in an ideal working position.

The seat tilt should be used to reach an ideal working position for the caregiver or to ensure the security and comfort of the user during use. The forwards tilt can also be used to assist the user in getting out of the chair.

If the chair is used as a toilet chair, ensure that the bedpan is placed correct under the seat.

Note: Never lift higher than necessary.

3.3 Memory and transport position

The hand control comes with advance buttons, such as:

- Transport position
- Store
- Memory 1
- Memory 2

Use the transport position button to simultaneously adjust height and seat tilt to a position optimal for transport.

Use the store button to save the current position in one of the memories. To save a position press Store + M1 or Store + M2. The memory button can hereafter be used to return to the saved position.

Examples of saved positions could be:

- Washing/Shower position
- Toilet position
- Exit-chair position

4 MAINTENANCE

4.1 Cleaning

Triton/Dual should be cleaned using a slightly damp cloth with a small quantity of standard household cleaning agent or surgical spirit. Wet wipes with anti-bacterial solutions may also be used.

Strong chemicals or abrasive agents must not be used.

Triton/Dual can also be cleaned in a washing machine or tunnel. All parts on the chair are approved for this including electrical components.

Cleaning by washing machine or tunnel should be done in accordance to EN/ISO 60601-2-52. It is the user's responsibility to ensure that the correct washing procedure is followed. Any other washing procedures may damage the chair.

Industrial high-pressure cleaning is not allowed. Winncare Nordic recommends that the actuators are positioned in their innermost positions to avoid degreasing to piston rods.

Note: If the chair is used for more than one person, the chair **MUST** be thoroughly cleaned between users.

The bedpan and lid can be cleaned in a bedpan washer or according to relevant regulations.

Note: Discoloration and extra wear might occur on various parts when cleaned several times by washing machine

Lubrication:

The piston on both the lifting- and tilting-actuator should be lubricated once a month with Vaseline or thin oil.

4.2 Storage

The product must be stored in a dry environment with relative humidity under 70 %. This does not apply when used for showering situations.

5 CHECK, WARRANTY AND TROUBLESHOOTING

5.1 Annual checks and warranty

Triton/Dual must always be repaired and maintained by qualified personnel.

WinnCare Nordic demands that Triton/Dual is checked by a qualified technician at least once a year in accordance to WinnCare Nordic's service instructions. The annual service check is also recommended in the International Standard (EN/ISO 17966) Assistive products for personal hygiene that supports users.

It is the legal owner's duty to ensure that these service checks are carried out on the product.

The following items is to be inspected during the annual check:

- **Seat tilt:** Actuator runs both ways. Piston is lubricated. Actuator is mounted correct. Locking ring and nuts are placed correct.
- **Cables:** Intact.
- **Backrest and clips:** Intact and securely tightened.
- **Seat:** Easy to remove and put back. PU surface is intact.
- **Arm rests and moving parts:** Securely fastened, lubricated and moves easy up and down. PU surface is intact. Screws tightened (remember Loctite if removed/loose).
- **Footplates:** Works up and down. Height adjustability works. Easy to remove.
- **Emergency stop (Not present on all models):** Works and releases again.
- **Lifting mechanism:** Actuator runs both ways. Piston is lubricated. Actuator is mounted correct. Locking rings are placed correct. Lifts from bottom to top with max SWL.
- **Hand Control:** All functions work as specified in the user guide.
- **Control Box and battery:** Correctly mounted. No visible defects.
- **Wheels:** Wheels and brakes work. Securely fastened.
- **Frame and Welding's:** Must be checked for visual signs of cracks, rust or deformations.

5.2 Control box reset

If any part of the electrical system is replaced or unplugged, e.g. actuator or control box, or the emergency lowering has been activated the system must be reset by holding the UP and DOWN button until both actuators reach their innermost position.

If it is necessary to replace any parts due to wear or damage, WinnCare Nordic recommends for safety reasons to use only original spare parts. Use of non-original spare parts will void the warranty.

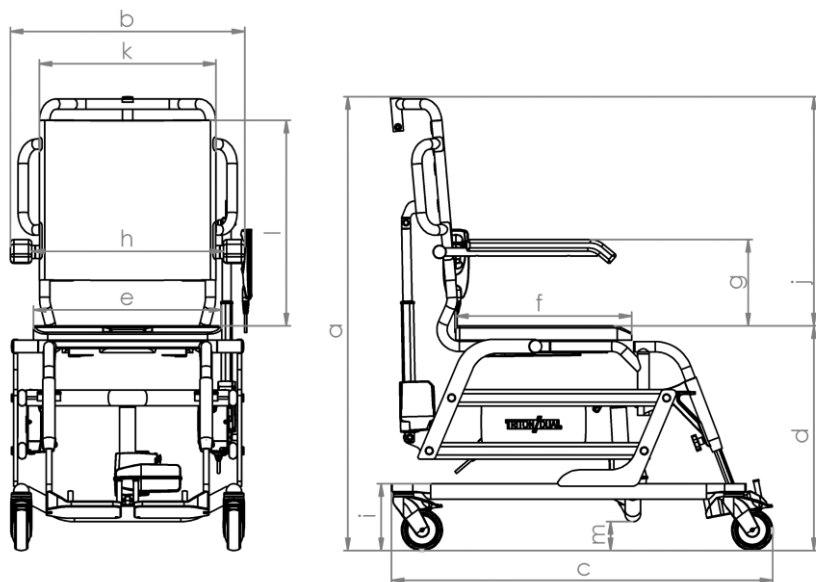
Warranty

There is a 2-year warranty on the product conditional on annual service and maintenance being carried out, according to the above service guidelines. See further warranty conditions on www.WinnCare.com

5.3 Troubleshooting

Fault:	Possible cause	Solution
The chair does not react when the buttons on the hand control are pressed.	The battery is not charged or defect.	Charge the battery. (2.2). Make sure the emergency stop has not been pressed (Not available on all models).
	Defective hand control.	Remove the control box plastic cover. Open the control box. Try a different hand control.
	Emergency stop has been pressed.	Reset the emergency stop (0). Not present on all models.
	Cables unplugged.	Check the cables going into the lifting and tilting actuator. Remove the control box plastic cover and open the control box. Check the cables.
Error during charging (Yellow battery LED flashing)	Battery critically discharged.	Charge the battery for at least 12 hours. It might be possible to charge the battery.
	Defective battery.	Try a different battery or order a new from your dealer or WinnCare Nordic.
Lifting or tilting actuator does not run properly or makes abnormal sounds.	Defective actuator.	Order a new from WinnCare Nordic or Dealer.
Control box beeps	Lost actuator position	Reset control box (5.2)
Chair cannot go over the toilet seat	Lack of space	The protective boxes for the control box can be removed. Does not affect IPX6W protection.

6 TECHNICAL DATA



a) Height	1065-1480 mm
b) Width	570 mm
c) Length	880-1050 mm
d) Seat height	535-950 mm
e) Seat width	460 mm
f) Seat depth	430 mm
g) Height between armrest and seat	210 mm
h) Width between armrests	470 mm
i) Height to lower frame	150 mm
j) Height from seat to top of backrest	560 mm
k) Width of backrest	430 mm
l) Height of backrest	505 mm
m) Clearance	70 mm
Wheel	ø100 mm
Turning radius	1030 mm
Angle of tilt	+7° to -30° ± 2°
Weight	41 kg
Noise (Loaded)	LwA 55 dB(A)

Lifting properties:

Load capacity	150 kg
Lifting cycles per charge	80-100 lifts
Duty cycle	10%, max 2 min./18 min.

Electrical details:

Battery type	Lithium ion technology: NMC
Battery capacity:	2,25Ah
Output voltage:	25,9VDC
Max discharge current	10 A
Control box input (Charging)	100-240 VAC, 50/60 Hz, -15 % / +10 %
Control box (Output):	200 W
Charging time (First time):	10 hours
Charging time (full):	6 hours
IP-class:	IPx6W

Flammability:

Battery BA21	UL94-V0
control box CO61	UL94-V0
Hand control HB80	UL94-V2
Lifting actuator LA40	UL94-V2
Tilting actuator LA23	UL94-V0

PU-Toilet seat	According to RL 95/28 EG, Appendix 4 FMVSS 302.
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7 ENVIRONMENT AND QUALITY

Triton/Dual has an expected lifetime of a minimum of 10 years conditional on annual service and maintenance being carried out.

7.1 Disposal

Disposal of Triton/Dual can be done through Winncare Nordic which will ensure the various parts are recycled or reused in an environmental friendly way.



Parts that contain aluminum, plastic, steel and electronics may damage the environment if not handled in an environmentally responsible way.

7.2 Quality

Winncare Nordic ApS is certified according to the quality standards ISO 9001 and ISO 13485.

These certifications mean that the product and the company comply with the international standards for quality management and standards for traceability of medical products.

Triton/Dual is classified as a Medical device class 1 product.

7.3 Symbols and abbreviations



The product must be recycled where possible.



Direct current



Double insulated



Type B, patient is not separated from the ground



Refer to user manual

SWL

Safe working load = (user + accessories)

8 ACCESSORIES AND SPARE PARTS

047-10300	Adjustable headrest w. flexible PU-padding
047-10301	Adjustable headrest: Size small
047-00360	Swing-away Torso Support w. PU-padding
047-00266	Soft cover for toilet seat
047-00271	Toilet seat with round hole/Black PU
047-10317	Toilet seat cover for 047-00271/Black PU
047-00267	Anti-pressure pillow for toilet HMI 40663
047-00606	Elevating leg rest/set
047-00361	Amputation leg rest left
047-00362	Amputation leg rest right
047-10302	Wide armrest
047-10303	PUR-Backrest
047-00904	Bedpan/Light grey/PP Compatible with factory mounted bedpan bracket
047-00517	Bracket set for bedpan (stainless)/complete For 047-00914
047-00914	Bedpan w. lid/stainless steel
047-10312	Bracket set for bedpan (PP)/Complete For 047-00913
047-00913	Bedpan w. lid/Polypropylene
047-10316	Direction lock caster incl. screw/washer/spacer
047-00359	Crossbar between the armrests
047-00350	Calf strap for footrest
047-00607	Torso-/Hip-/Leg Belt
<p>Warning! Do not use cables or accessories not included in the list as other cables or accessories may negatively affect performance or cause disturbance.</p>	

Spare parts

047-10304	Tilting actuator/LA23
047-10305	Lifting actuator/LA40
047-10306	Hand control/HB84/8 buttons
047-10308	Battery/BA21
047-10313	Battery cover incl. expansion rivets
047-10310	Control box/CO61
047-10314	Control box cover incl. expansion rivets
047-00269	PU-Toilet seat w. hygiene cut
047-10311	Back Rest/Upholstery-grey/
047-00363	Wheel d100/w. red brake & screw
047-00608	Footrest/swiveling/high adjustable
047-00705	Upholstery for armrest
047-10319	Flexible PU padding for adjustable head rest
047-10320	Small PU-padding for headrest
047-10321	Backrest PUR padding
047-10318	Power cable/EU plug/Triton/Incl. Velcro and clips
047-10322	Power cable/UK plug/Triton/Incl. Velcro and clips
047-10323	Power cable/AUS plug/Triton/Incl. Velcro and clips
047-10324	Power cable/US plug/Triton/Incl. Velcro and clips

If the desired spare part is not on the list, please contact your dealer or Winncare Nordic.

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