

Stellar 170

Stand-aid
lifter/hoist

User instruction

Important information

This user instruction must be read before the Stellar 170 is used.

This user instruction is intended for technicians, installers, therapists and other personnel, in connection with the use, servicing and maintenance of the Stand-aid lifter/hoist.



Scan the QR-code for further information

Date: 01-02-2022

Version 01

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1. AIM AND USE

1.1 Purpose

Stellar 170 is a mobile stand-aid lifter/hoist, designed to transfer persons in institutions such as nursing homes, hospitals, care centres and in homecare. Stellar 170 can be used for transfer between bed and chair/wheelchair, from chair to another chair and from wheelchair to a toilet/commode.

Stellar is approved to transfer with a maximum load on 170 kg.

The use of the Stellar requires the following instructions:

- Personnel have received qualified instruction by Winncare Nordic in using the Stellar.
- The Stellar has been assembled correctly and according to this user instruction.
- NEVER use the Stellar for other purposes than described in this user instruction.
- Ensure the user cannot be squeezed or restricted in the lifting situation.
- The Stellar has been developed for use with Winncare Nordic lifting slings and other sling products authorized by Winncare Nordic. See Winncare Nordic's user instruction for slings for specific information about which models that can be used.
- The Stellar is intended for indoor use under normal temperatures (+2°C to +40°C) or (36°F - 104°F) and relative humidity (40-90%).

1.2 Safety instructions



Important – Warning!

This user instruction must be read thoroughly before the Stellar is taken into use.

- All parts must be mounted correctly according to this user instruction.
- There must be no indication of wear and tear on the Stellar or the lifting sling.
- NEVER begin lifting if there is suspicion of any defect (abnormal sound, loose brackets etc.). In such cases it is important to find the cause and to take the Stellar out of service and your dealer or Winncare Nordic contacted.
- The lifting capacity must never be exceeded. When using the Stellar in connection with other components e.g. slings it is always the component with the LOWEST weight capacity that decides the maximum lifting capacity.
- Ensure that neither carers/helpers nor patients/users can be hurt during the lifting.
- Using the Stellar may not run on uneven surfaces or threshold.
- Never lift higher than necessary in the actual lifting situation.
- See section 5.1 (annual check) for further information.

Note! If the footplate is not mounted, it may cause the Stellar to tilt.

1.3 Before use

The carer/helper is responsible for ensuring that a daily check is carried out BEFORE the Stellar and accessories are used, including the following:

1. Check that the Stellar 170 is complete, and no parts are missing.
2. Check that there are no signs of rust, wear and tear or other defects. If there is any sign of a defect the Stellar must be taken out of service.
3. If any abnormal sound is heard from the Stellar 170, the lifter must not be used before personnel authorised by Winncare Nordic have carried out a safety check on the unit.
4. Check the lifting slings for any damages especially as regards to the lifting straps for tears in the material. The slings must not be used if defects are detected.
5. If in any doubt concerning the use of Stellar or lifting slings, contact Winncare Nordic for advice and guidance.

1.4 Terminology

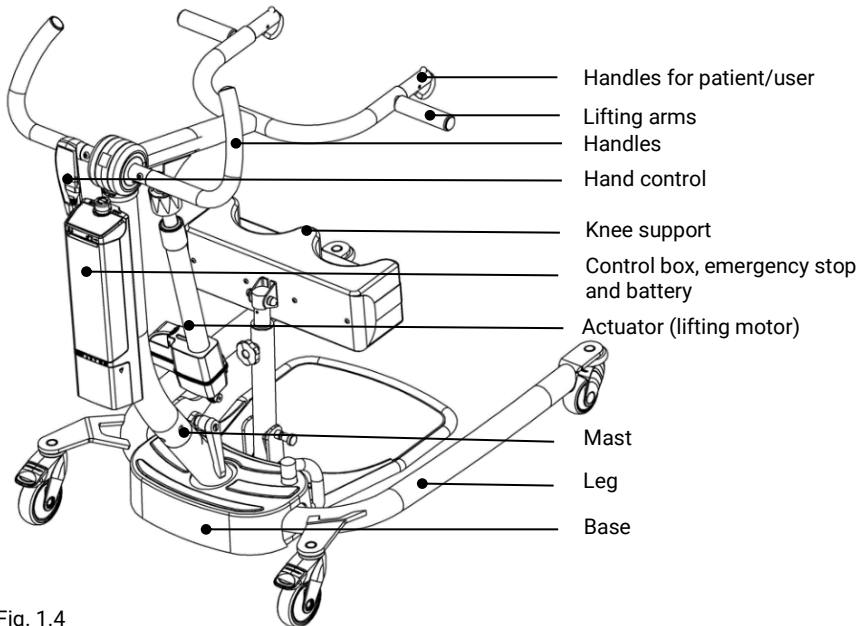


Fig. 1.4

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. We recommend that the box packaging is kept if the Stellar is to be used on other sites or for return shipment in case of repair or annual check.

Content of the box:

1. Base for legs spreading
2. Mast and lifting arm
3. Actuator
4. Hand control with battery
5. Control box
6. Handles
7. Knee support
8. Tools (Allen key, spanner)
9. User instruction

1.6 Assembling instruction

Following step by step the assembling guidance:

1. Place the base on the floor and brake the wheels. (Fig. 1.6A)
2. Assembly the mast/lifting arm with the base part (Fig. 1.6B) and tighten the hand screw (Fig. 1.6C)

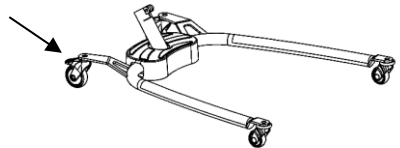


Fig. 1.6A

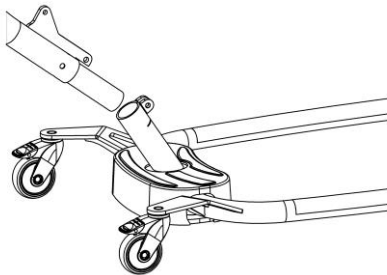


Fig. 1.6B

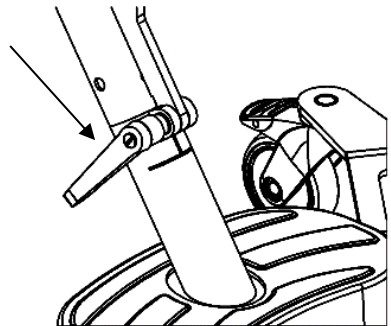


Fig. 1.6C

3. Mount the foot plate into the corresponding holes on the base. (Fig. 1.6D)

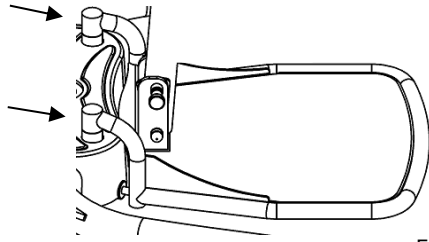


Fig. 1.6D

4. Assembly the actuators piston rod to the lifting arm. Use the Allen key and the spanner to tighten the bolt/nut. (Fig. 1.6E). Put the cap on the nut.

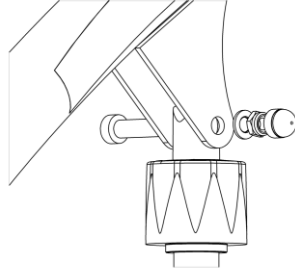


Fig. 1.6E

5. Assembly the handles on the mast with two screws and tighten with the Allen key. (Fig 1.6F).

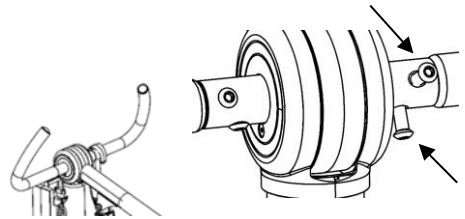


Fig. 1.6F

6. Before first time use and after each service check the control box must be reset push up/down buttons simultaneously on the hand control (Fig 1.6H). See section 3.2 – Using the control box.

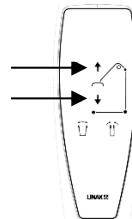


Fig. 1.6G

1.7 Mounting of lifting slings

The Stellar lifting arm is equipped with hooks, which are designed for use with Winncare Nordic lifting slings. Winncare Nordics lifting slings have 4-6 lifting straps and are designed for lifting hooks larger than $\varnothing 8\text{mm}$ or (0.3 in).

If using non-authorized slings Winncare Nordic will have no responsibility for faults and accidents.

Winncare Nordic can assist in choosing slings and their correct use.

Attach slings on the Winncare Nordic hook.

Winncare Nordic accepts no responsibility if slings are attached incorrectly, it is always the onus of the carer/helper to ensure that the sling is correct for the situation needs and is correctly fitted.

Hygienically, the hook can be opened / closed without the use of hands just place the sling strap loop around the hook and pull the strap towards yourself (Fig. 1.7A).

The sling strap is placed over the hook in its open position. (Fig. 1.7B).

The strap is pulled downwards so that the hook locks. (Fig. 1.7C).

The design of the lifting hook is that the weight of the patient/user helps to close the hook.

To release the strap after lifting simply pull upwards to open the hook.



Fig. 1.7A

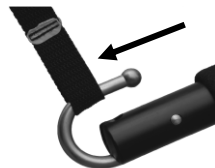


Fig. 1.7B

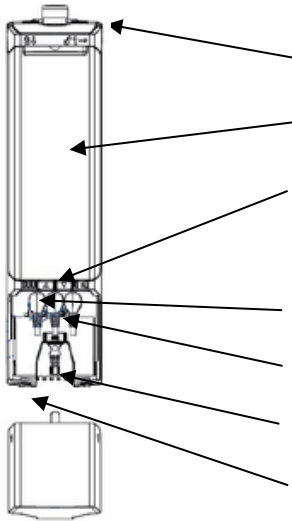


Fig. 1.7C

Note: Risk of finger entrapment - ensure that user's fingers cannot get trapped.

2. FUNCTIONS

2.1 Pictograms and functions – control-box



Emergency stop – See section 2.3

Battery

Lift up/down – The up/down function can be activated with a small pointy object such as a pen. ON – Charge – indicates charging on the battery (see section 2.4)

Connecting plug - electrical leg spreading

Connecting plug - lifting actuator

Connecting plug - hand control

Connecting plug - power supply

LED indicator	LED 1 2 3			4 5	
	LED state	Description	Buzzer		
LED 1-2-3	on	Battery full			
LED 1-2	on	Battery 50%			
LED 1	on	Low battery	A beep at startup		
LED 1	Switches to yellow and flashes	Two cycles left	Single beep on key activation		
LED 4-5	on	Emergency stop activated			
Led 5	Flashing slowly	Overload state kept for 10 sec.			
Led 4	on	Service needed			

Fig 2.1 B

2.2 Pictograms and functions – hand control



Up/Down – These functions operate the lifting arm to move up or down.

Leg spreading – Press → ← and the leg spreading moves together. Press ↔ and the leg spreading will spread outwards.

2.3 Safety functions

Emergency stop:

This function is only to be used in an emergency e.g. if the Stellar does not react or does not stop after pressing a button on the hand control.

If the emergency button has been activated all functions immediately stop. The emergency stop can be released by turning the red button a ¼ turn clockwise. (Fig 2.3A).

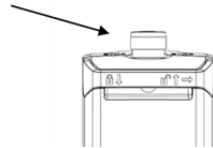


Fig. 2.3A

Emergency lowering:

This function is only to be used in an emergency, where it is necessary to safely lower a patient. The emergency lowering is placed on the lifting actuator and is activated by turning the red knob clockwise, the lifting arm will then be lowered. (Fig 2.3B).

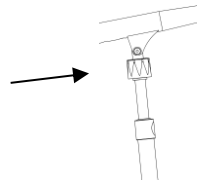


Fig. 2.3B

2.4 Charging

The Stellar is equipped with a battery that requires regular charging. Winncare Nordic recommends that the battery is charged when the Stellar is not in use or every night. The Stellar can be charged from the mains (wall outlet).

There are 3 symbols on the control box, which indicate the power level in the battery.

Warning! – If low battery. The battery must IMMEDIATELY be put on charge. In this situation remain on charge for 24 hours.

Note: The Stellar cannot be overcharged.

Charge directly from the wall outlet

Remove the mains plug, placed in the bracket on the side of the control box and plug into the wall socket.

- 1) The cable from the charger to the mains must be loose.
- 2) On the control box there is a diode, that lights yellow during charging.

Note: Stellar 170 cannot be used during charging.

Remove the battery from the lift and place it in the charger.

2.5 Transport

The Stellar is most safely transported using the original packing.
Symbols are printed on the packaging to ensure the best information to carrier companies.

3. USE

3.1 Using the Stellar

Stellar is ready for use if all assembly instructions have been followed and the emergency stop has been released.

Operation of the Stellar when turning

When the Stellar is to be turned with a user placed in it, it is important that the caretaker turns around ergonomically correctly. It can be helpful to brake one of the wheels in turning direction.

3.2 Using the control box

The control box keeps track of a variety of data such as:

- Service counters
- Battery state
- Overload information
- Service visit reports
- System error
- SW number
- ID

To access this information a readout tool is required.

This service data tool can be purchased from Winncare Nordic or your local dealer

More information about the OneConnect™ can be found on LINAK's homepage.

Note: Before first time use and after each service check (service interval 365 days) must the service indicator be reset by holding up/down buttons simultaneously on the hand control. Await a BEEP-sound from the control box before releasing buttons again.

3.3 Adjusting the knee support

Height adjustment:

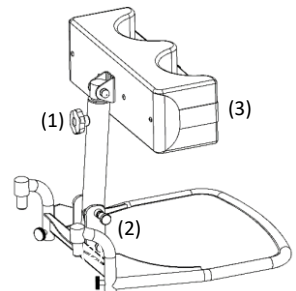
The knee support is adjusted by loosening the hand screw (1).

- The knee support adjusted up or down. The upper edge of under the user's kneecap.
- Tighten the hand screw when settings fit.

Note: The knee support must never press on the kneecaps.

Angle adjustment:

- The angle of the knee support can be adjusted in 3 positic...



- Pull the click lock (2) out and set the angle to the user when the user stands up.
- Release the click lock and ensure that the mechanism is locked.

Note: As additional support, the calf belt (3) can be tightened around the knee support.

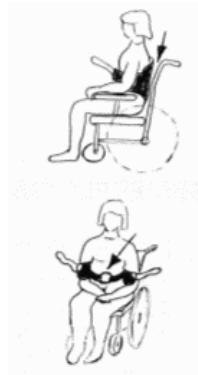
3.4 Using the slings

Lifting from sitting position:

- First apply the brakes on the wheelchair.
- Place the sling behind the user by pushing the back support as low down on the users back as possible.
- Close the safety belt. Lock the buckle on the belt and pull the straps tight. Straps must be pulled tight.

Note: Be aware that the buckle located under the user's ribs.

- Move the Stellar to the user and place the user's feet on the foot plate.
- Fit the side pieces under the user's arms and fasten the sling loops on the sling hooks on the lifting arm.
- The user may have their arms outside as illustrated or if the user is semi-paralyzed, it may be necessary to keep the arm inside the lifting arm/sling.
- Start lifting until the sling sits tightly around the back. Re-tighten the sling belt around the waist once more if it is not tight enough.
- The user may hold the foam padded part of the handle and is asked to participate (co-operate) in the lifting action, as much as possible.
- Ensure that the patient feels no discomfort.
- Ask the user to press their feet down onto the plate and to stretch both knee-and hip-joints.
- The carer may help by placing a hand on to the knee and press the knee lightly downwards. Continue the lifting process according to the user's ability, until he stands as upright as possible. Never lift higher than is necessary.



From standing to sitting position:

- Move the lifter to the secured (braked) wheelchair.

Note: Do not apply the brakes on the stand-aid lifter when lifting the user.

- The user is best lowered with his buttocks placed on the bottom half of the chair's backrest. This will tilt the chair slightly backwards and the user will then slide down into the back of the chair when lowered. This movement demands the utmost care and attention from the carer.



4. MAINTENANCE

4.1 Cleaning

The Stellar may be cleaned using a slightly damp cloth with a standard household cleaning agent. Chemicals and other strong/abrasive agents must not be used.

It is recommended that the Stellar be cleaned after each use to avoid infection. The Stellar can be disinfected with household alcohol.

4.2 Storage

The Stellar must be stored in a dry environment with relative humidity under 90%.

If the Stellar is not to be used over a longer period of time it is best to fully charge the unit and activate the emergency button to save battery before putting in storage.

It is recommended to charge the battery every 6 months.

4.3 Special environments

The Stellar is not intended for use in aggressive environments e.g., leisure centres or swimming pools. For these situations, please contact your local dealer or Winncare Nordic.

5. CHECK AND TROUBLESHOOTING

5.1 Annual check

The manufacturer Winncare Nordic stipulates that a qualified and authorised person MUST check this hoist at least once a year. This annual check is also recommended in the Standard (EN/ISO 10535) for lifters/hoists. It is the customer to ensure that the annual check is carried out.

Scheduled maintenance and replacement of parts must always be carried out by authorised persons, who have been approved by Winncare Nordic.

Note: Replacement must only be done with Winncare Nordic products.

Please contact local dealer for advisement of service companies. Local dealer can also be found at Winncare Nordic homepage.

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

- **Leg spreading:** Actuator runs both ways without any abnormal sounds.
- **Cables:** Intact.
- **Lifting arm:** Hooks intact and securely mounted. PU-foam intact.
- **Emergency stop:** Works and releases again.
- **Lifting mechanism:** Actuator runs both ways. Actuator is mounted correct. Lifts from bottom to top with max SWL 170 kg. (375 lb). Ratchet works when lowering.
- **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.
- **Handles:** Securely mounted without backlash.
- **Service interval:** After service has been carried out the service interval must be reset.

Warranty

See sales and delivery terms for warranty information at www.winncare.com

5.2 Troubleshooting

Fault:

The hoist does not react when the hand control buttons UP/DOWN are used.

Possible cause: Emergency stop is activated. (see section 2.1)
Solution: Release the emergency stop (see section 2.3)
Possible cause: Defect hand control.
Solution: Try using another hand control. Alternative is to get a new hand control from the dealer.
Possible cause: Flat battery.
Solution: Charge battery (see section 2.4).

Fault:

Some functions work, while others don't.

Possible cause: Fault in the control box. (see section 2.1)
Solution: Replace the control box.
Possible cause: Defect hand control.
Solution: Try using another hand control. Alternative is to get a new hand control from the dealer.
Possible cause: Fault in electrical circuit
Solution: Check wiring

Fault:

The lifting actuator is noisy or vibrates abnormally.

Possible cause: Lifting actuator is defect.
Solution: Replace the lifting actuator.

Fault:

Does not charge

Possible cause: Charger is not connected to the main supply.
Solution: Connect charger.
Possible cause: Defect control box.
Solution: Try another control box. Order a new from Winncare Nordic or the dealer.
Possible cause: Defect battery.
Solution: Replace battery.


6. TECHNICAL DATA AND DIMENSIONS

6.1 Technical specifications

Lifting properties:

Load capacity:	170 kg (375 lb)
Number of lift movements:	60-80 with 80kg (176 lb) / 0.5 m (1.6ft) lift
Duty cycle:	10%, max, 2 min/18 min
Manually emergency lowering:	Yes
Electronically lowering:	Yes

Electrical details:

Power supply (Input):	100-240 VAC 50/60 Hz, max 0.4 A
Output voltage:	24V 
Control box (Output):	250 VA
Battery capacity:	2,9Ah

IP-class:	IPx6
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Noise:

LWA during lifting/lowering without load is 49dB(A)
LWA during lifting/lowering at maximum load is 52dB(A)

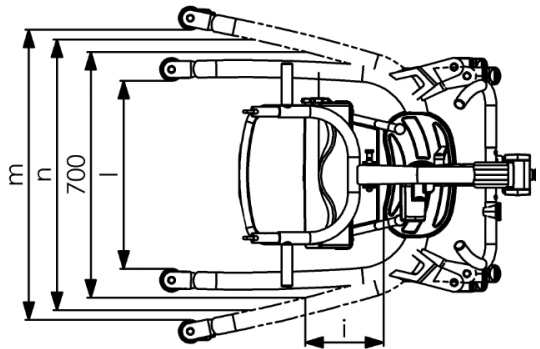
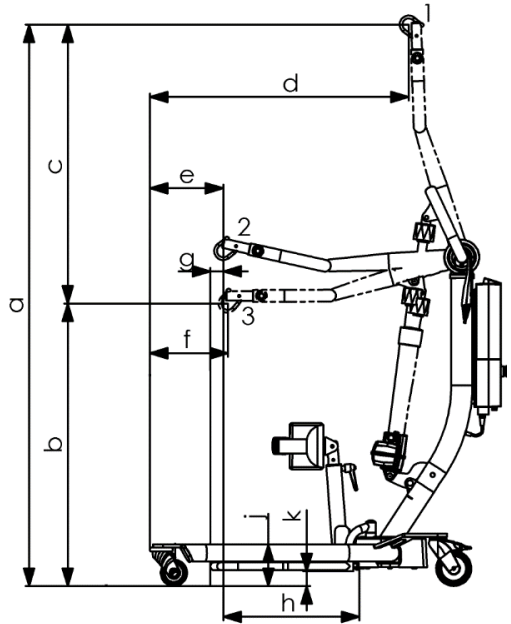
Material:

Powder coated steel, stainless steel, ABS, PU.

6.2 Dimensions

1. Highest point
2. Maximum reach point
3. Lowest position

a) Max. height of CSP*	1600 mm
b) Min. Height of CSP*	800 mm
c) Lifting range	800 mm
d) Min. Dist. from wall to CSP* at max. height (legs spread)	740 mm
e) Min. Dist. from wall to CSP* at max. reach (legs spread):	210 mm
f) Min. Dist. from wall to CSP* at min. height (legs spread):	220 mm
g) Max. reach at 600 mm (reference height):	40 mm
h) Max. reach from base	390 mm
i) Reach from base with legs spread to 700 mm	220 mm
j) Base height	120 mm
k) Floor to baseplate	40 mm
l) Min. internal width	540 mm
m) Max. internal width	830 mm
n) Internal width at max reach	770 mm
Turning diameter	1060 mm
* Central suspensions point	



Weight:

Weight in total:	51.4 kg
Mast incl. battery:	18.0 kg
Base/legs:	23.4 kg
Footplate:	10.0 kg

7. ENVIRONMENT AND QUALITY

Stellar has an expected lifetime of minimum 10 years under the assumption that all recommended service checks have been carried out and that the normal maintenance and care instructions have been followed.

7.1 Disposal

Disposal of this Stellar can be made through Winncare Nordic. After useful lifetime Winncare Nordic will receive the Stellar back and dispose of the individual parts in an environmentally friendly way either through reuse or recycling.

Parts that contain aluminum, lead acid batteries, electrical component, ABS plastic, steel may damage the environment if not handled in an environmentally responsible way

7.2 Battery

The Stellar is equipped with one battery which may be returned either to a local recycling station or to Winncare Nordic at the end of their lifetime

7.3 Quality

Winncare Nordic is certified according to the quality standard ISO 9001:2015 and ISO 13485:2016. These certifications mean that the products and the company complies with the international standards for quality management and standards for traceability of medical products.

Stellar is classified as a medical device class 1 product.

7.4 Symbols and abbreviations



Direct current



Double insulated



The patient is not separated from the ground and the chassis



The product should be reused where possible



Refer to user instruction

SWL

Safe working load (user + sling)

8. ACCESSORIES

Wall charger

017-00200EU	Wall charger/EU plug
017-00200AUS	Wall charger/AUS plug
017-00200UK	Wall charger/UK plug

Spare parts list can be ordered. Contact Winncare Nordic for more information.

Manufacturer:
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Denmark

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(EU) 2017/745 CLASS I
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IEC 60601-1-2:2015



910-00801EN