



Pallas/175

Stand-aid lifter

User instruction

Important information

This user instruction must be read before the Pallas 175 is used.

This user manual is intended for technicians, therapists and other personnel, in connection with the use and maintenance of the Pallas 175 lifter.

Dato: 10.09.2019 - Version 07



Scan the QR code for further information

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1. PURPOSE AND SAFETY

Pallas 175 is a mobile stand-aid lifter designed to help the user to be transfer in a standing position or support the user in up or down situations.

1.1 Purpose

Pallas 175 has as purpose to transfer patients with a maximum load of 175 kg.

The transfer situations include short transfers from a bed to a chair/wheelchair, from wheelchair to another chair and from chair to a toilet in institutions such as nursing homes, hospitals, care centres and in homecare.

NOTE: Never use the Pallas 175 lifter for other purpose than originally intended.

1.2 Safety instructions



Important - Warning!

Read the user manual and these safety instructions thoroughly before using:

- Ensure that all parts are mounted correctly according to this user manual.
- The maximum lifting capacity may never be exceeded. When using stand-aid lift in connection with other components e.g. slings it is always the component with the LOWEST weight capacity that decides the maximum lifting capacity.
- NEVER use the stand-aid lift if there are any indications of wear or suspicion of other defects on the lift or on the accessories. In such cases the lift must be taken out of service immediately and you must contact your dealer or Winnicare Nordic.
- Ensure that neither carers nor patient can be injured during lifting.
- Never lift higher than necessary when hoisting.

1.3 Before use

The carer/helper is responsible in ensuring that a visual check is carried out BEFORE Pallas 175 and accessories are used, including the following:

- 1) All parts must be mounted correctly according to this user manual (see section 2.1).
- 2) The carer will have received instructions in using the Pallas lifter.
- 3) Persons who are transferred must not be squeezed or trapped in the lifting situation.
- 4) Check that there are no signs of rust, surface damage or other defects. If there is any sign of a defect the Pallas 175 must be taken out of service.
- 5) If any abnormal sound is heard from Pallas 175, the lifter must not be used before personnel authorised by Winncare Nordic have carried out a safety check on the unit.
- 6) 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.
- 7) If you are in any doubt concerning the use, contact the dealer or Winncare Nordic for advice and guidance.

1.4 Terminology

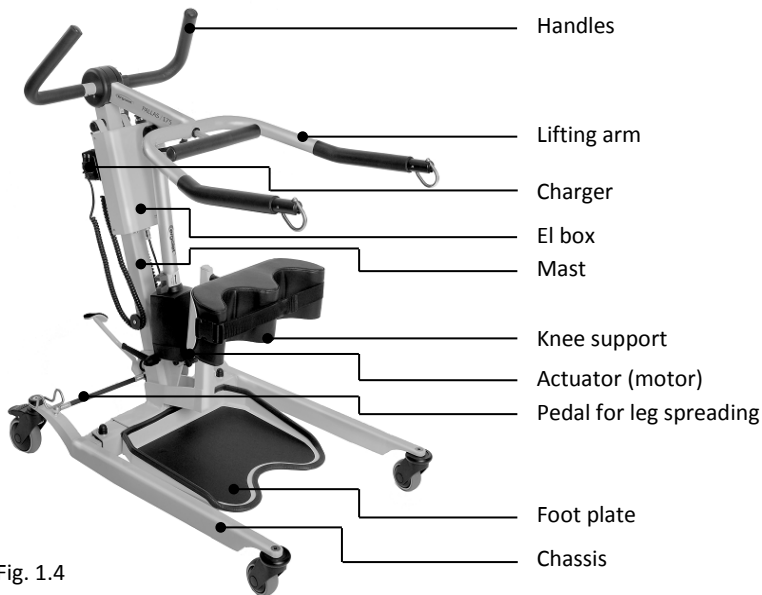


Fig. 1.4

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 Pallas 175 is to be used on other sites or for return shipment in case of repair or annual check.

Content of the box:

- Chassis
- Mast and lifting arm
- Hand control
- Charger
- Actuator
- Control box
- Spreader bar
- User instructions



1.6 Mounting instruction

Following step by step the assembling guidance of the Pallas 175:

- 1) Place the chassis on the floor and brake both wheels. (Fig 1)
- 2) Loosen the mast tightening screw (A) before placing the mast with the guide pointing forward into the chassis mount. The guide and mast must be inserted completely in the chassis before the locking screw can engage on both sides before tightening. (Fig 2A/ 2B)



Fig. 1



Fig. 2A

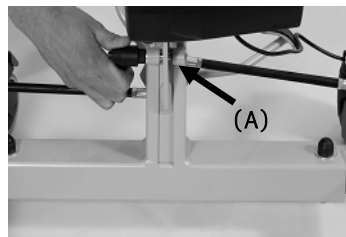


Fig. 2B

- 3) Place the electrical box (Fig. 3A) on the inner side of the mast. At this time ensure that the charging cable (short cable) with DC plug is placed between the mast and electrical box and fitted to the corresponding socket on the box. (Fig. 3B)



Fig. 3A



Fig. 3B

- 4) Please press the red emergency button on the electrical box before connecting motor and box.



Fig. 4

- 5) Connect the cable from the lifting actuator which has a 2-pin plug to the underside of the electrical box.



Fig. 5

- 6) Connect the control device to the back of the electrical box using the 3-pin plug.

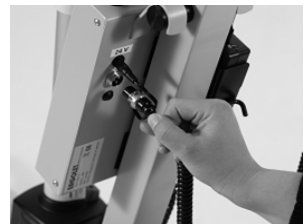


Fig. 6

- 7) Ensure that the emergency button is in the extended position. If not, give the button a quarter turn clockwise until it reaches the extended position.



Fig. 7

1.7 Lifting slings

Pallas 175 is equipped with a lifting arm (pat. pending) designed for use with Winncare Nordic lifting slings. Winncare Nordics lifting slings have 2-4 lifting straps for use with the stand-aid and are designed for lifting hooks larger than $\varnothing 8\text{mm}$. If using non-authorized slings Winncare Nordic will have no responsibility for faults and accidents.

Winncare Nordic can assist in choosing slings and offer training sessions in transfer techniques and the correct use of slings.

Hanging slings on the Winncare Nordic spreader bar

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

- (1) The sling strap is placed over the hook in its open position. (Fig. 1.7A)
- (2) The strap is pulled downwards so that the hook closes. (Fig. 1.7B)

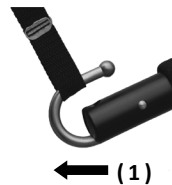


Fig. 1.7A

The design of the lifting hook is such that the weight of the client/user will help close the hook.

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

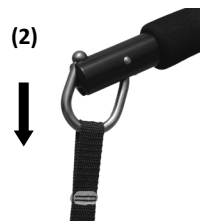


Fig. 1.7B

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

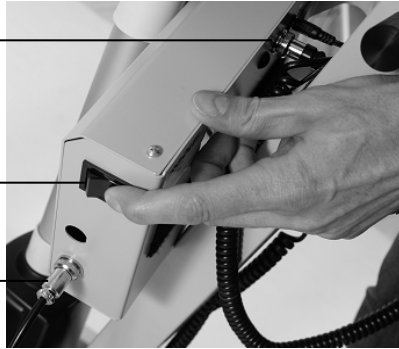
2 FUNCTIONS

2.1 Pictograms and functions – Control-box

Plugs for charger
and hand control

Emergency lowering
button

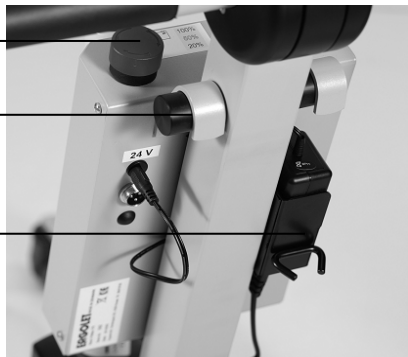
Lifting actuator



Emergency-stop

EI-box grips

Charger and holder



2.2 Pictograms and functions – Hand control

1. Hand control basic (Fig 2.2)

The hand control has functions for up/down.



2.3 Operation and technical

Place the hand control in the socket (see section 1.6) on Pallas 175 which is now ready for use.

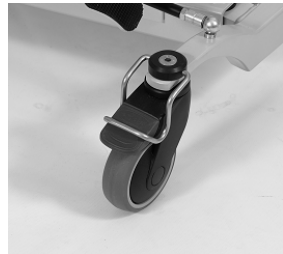
Note: Ensure that the emergency stop button is in the “out” position.

Pallas 175 is intended for indoor use under normal temperatures (+2 to +40°C) and relative humidity (40 –90%). The unit should be protected against sudden changes in temperature/humidity.

Adjusting the lifter:

Directional guide

Can be used for controlling the forward and backward direction during transportation.



Foot pedal for leg spreading

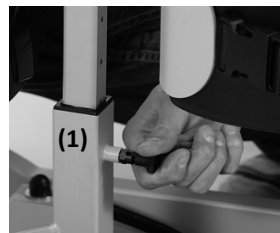
The pedal is to be used for opening and closing the legs.



Knee support

The height of the knee support can be adjusted with the locking pin (1). The knee support must never press on the kneecaps.

The knee support is flexible (gas spring loaded) and will adjust individually to the patient.



Adjustable lifting arms

The width of the lifting arms can be adjusted by the means of the hand screw.



2.4 Safety functions

Electrical emergency lowering button:

This function lowers the patient. It can be used if hand control is out of order. This function is only available if the emergency button is not activated.



Emergency stop:

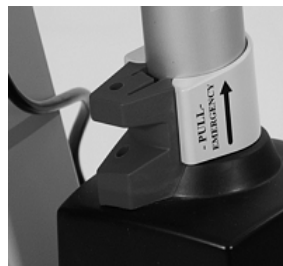
This function is only to be used in an emergency.eg. if the lifter does not react or does not stop after releasing the hand control operation. If the emergency button has been activated all functions immediately stops.



Mechanical emergency lowering handle:

This function is also only to be used in an emergency, where it is necessary to safely lower a client.

Pulling this handle in an upward direction will cause the lifting arm to slowly lower itself if a client is in the process of being raised. It is a hold to run device.



Note: If the emergency button or the emergency lowering handle has been activated due to an emergency the Pallas 175 must not be used again before a check has been made and any defect repaired.

In any doubt, please contact Winncare Nordic.

2.5 Charging

Pallas 175 is fitted with batteries that require regular charging. Winncare Nordic recommends that the Pallas 175 is charged when it is not in use or every night. Pallas 175 is fitted with a diode which gives the following information concerning battery condition during use



Note: The Pallas 175 cannot be overcharged.

- | | |
|--------------|--|
| Green = 100% | When the batteries are fully charged the diode shines green. |
| Yellow = 50% | When the batteries are approx. 50% the diode shines yellow – at this point it is recommended that Pallas 175 is put on charge. |
| Red = 20% | If the batteries reach a critical point the diode will shine red and at the same time an acoustic ("beep, beep" signal) will be heard. Pallas 175 must IMMEDIATELY be put on charge in this situation. |

The diode on the charger is shining green when charging.

The charger is connected to the lifter with charger holder.



2.6 Transport

The Pallas stand-aid lifter 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 Pallas 175

Pallas 175 is ready for use if all the assembly instructions have been followed.

3.2 Tips for using slings

Lifting from sitting position:

Place the sling behind the patient by pushing the back support all the way down to the small of the back.



Close the safety belt – over the waist, approx. at the navel and tighten it. The safety belt should sit tightly above the waist.



Brake the wheel chair and move the hoist/lift to the user. Lift the user's feet onto the foot plate; bring the hoist/lift forwards until the knee support is very close to the users' knees.



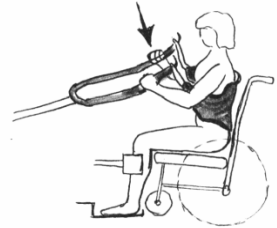
Fasten the chest sling onto the hooks on the Stand-aid arm. The user may keep his arms inside or outside the sling. If the user is semi-paralyzed, it may be necessary to keep the paralyzed arm inside the sling.



Start lifting until the sling sits tightly around the back. Then tighten the sling belt tighter around the waist.

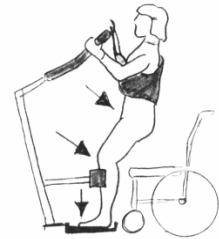
Ensure that the client feels no discomfort.

The user may hold the foam padded part of the arm and is asked to take part (help) the lifting action. The user should then try to hold himself as upright as possible and look forwards.



Ask the user to press 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 users' ability, until he stands as upright as possible.



From standing to sitting position:

Take Pallas 175 to the secured (braked) wheelchair, so the hollow of the knee rests against the front edge of the seat-cushion.



Do not break the stand-aid:

The user is lowered so that his bottom is placed on the bottom half of the chair's backrest. That way the chair may tilt backwards and the user glides into the back of the chair. This movement demands utmost care and attention from the carer.



Lifting with the Low back sling:

Place the Low back sling far down so the bottom edge of the back-support reaches the small of the back.



Pull the sling leg support forward on the outer side of the thighs. Then place them under the thighs and cross the sling straps in front.

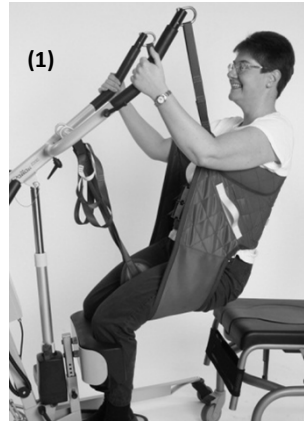
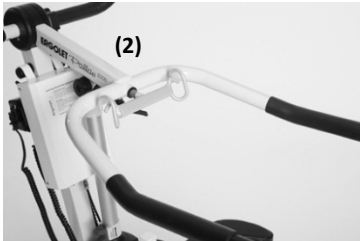


The user may be raised in a more or less reclining position, e.g. a relatively short back strap and a relatively long leg strap can be used. The straps are color coded in order to simplify an individual adjustment of the sling.



3.3 Seat transfer

A seated transfer may be carried out with a Low back sling using the hooks of the lifting arm (1) and using the extra hooks (2) provided on the arm.



In both transfer situations it can be an advantage to have the foot support/knee support in place to help guide the client. It can also be an advantage to have the client's feet on the footplate to assist the transfer.

3.4 The use of accessories

T-grip

Locking pin is loosened from below before the T-grip can be taken off or put on. Tighten the pin after adjustment and before use.



Hooks for seated transfer

Locking pin is loosened from below before the hooks can be taken off or put on. Tighten the pin after adjustment and before use.



4 MAINTENANCE

4.1 Cleaning

The actuator (motor), electrical box and hand control may be cleaned using a slightly damp cloth with a small quantity standard household cleaning agent. Chemicals and other strong/abrasive agents must not be used.

The rest of the lifter may be cleaned with detergent or disinfectant.

4.2 Storage

Pallas 175 must be stored in a dry environment with relative humidity under 90%.

If the Pallas 175 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.

4.3 Special environments

Pallas 175 is not intended for use in aggressive environments leisure centre, swimming pools etc. For these situations please contact your local dealer.

5 CHECK AND TROUBLESHOOTING

5.1 Annual check

Pallas 175 must always be maintained by qualified and authorised personnel who are been approved by Winncare Nordic.

Maintenance involves: Replacing batteries, charger, lifting straps and other components.

The manufacturer Winncare Nordic stipulates that this hoist **MUST** be checked by a qualified and authorised person at least once a year. This annual check is also recommended in the relevant European Standard (EN ISO 10535) for patient lifters/hoists. More frequent checks may be required by national laws.

It is the onus of the buyer to ensure that this annual check is carried out.

If it is necessary to replace any parts due to wear or damage these must be obtained/purchased from Winncare Nordic.

5.2 Troubleshooting

Fault:

The lifter does not react when the hand control buttons UP/DOWN are used.	Possible cause:	The lifter is not on or emergency stop is activated.
	Solution:	Deactivate emergency stop. (see section 2.4)
	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 2.5)

Fault:

The lifting arm can travel up or down not both.	Possible cause:	Fault in the electrical control box or control device.
	Solution:	Replace the control box or control device.

Fault:

Actuator is noisy or vibrates abnormally.	Possible cause:	Actuator cannot move freely in the mountings.
	Solution:	Remount the actuator and ensure that it can move freely.
	Possible cause:	Actuator is defect or faulty assembly.
	Solution:	Replace the actuator.

Fault:

The lifting movement is slow.	Possible cause:	Power shortage - Flat battery.
	Solution:	Charge batteries. (see section 2.5)
	Possible cause:	Defect battery.
	Solution:	Replace battery.
	Possible cause:	Connection between the charger and the hand control are defect.
	Solution:	Try using another hand control. Alternative is to get a new hand control from the dealer.

Fault:

Does not charge.	Possible cause:	Charger is not connected to the main supply.
	Solution:	Connect charger.
	Possible cause:	Defect charger.
	Solution:	Try another charger or order a new from Winncare Nordic or the dealer.
	Possible cause:	Connecting to the hand control is defect.
	Solution:	Try another hand control or order a new from Winncare Nordic or the dealer.

6. TECHNICAL DATA AND DIMENSIONS

6.1 Technical specifications

Lifting:

Load capacity:	175 kg
Number of lift movements:	40-50 (Refer to Winncare Nordic for definition)
Intermittens:	10%, max, 2 min/18 min
Manually emergency lowering:	Yes
Electronically emergency lowering:	Yes

Electrical details:

Power supply (Input):	100-240 VAC 50/60 Hz, max 0,35 A
Power supply (Output):	16W (30VDC, 530 mA)
Output voltage:	24V ===
Control box (Output):	192 VA
Battery capacity:	2,9Ah
Internal charger (output):	27,5V ===
Internal charger (max current):	400mA

IP-class:	Charger:	IPx4
	Hand control:	IPx5

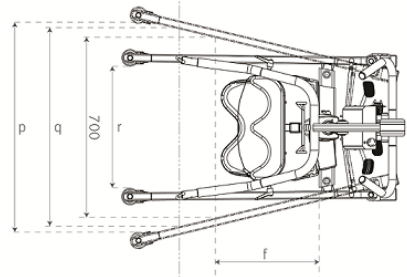
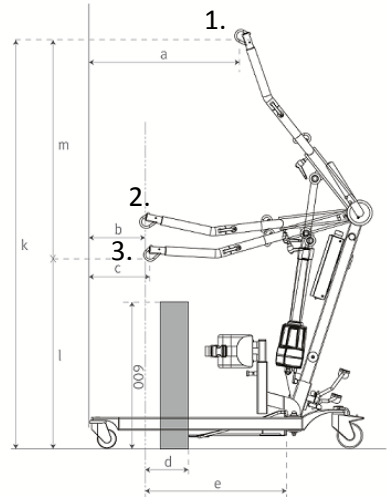
Noise:

Noise level:	45dB(A)
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6.2 Dimension

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

- | | |
|---|---------|
| a) Min. dist. from wall to CSP * at maxi. height (legs spread): | 560 mm |
| b) Min. Dist. from wall to CSP * at maxi. reach (legs spread): | 190 mm |
| c) Min. dist. from wall to CSP * at min. height (legs spread): | 205 mm |
| d) Maxi. reach at 600 mm (reference height): | 210 mm |
| e) Maxi. reach from base: | 565 mm |
| f) Reach from base with legs spread to 700 mm: | 405 mm |
| | |
| k) Maxi. height of CSP *: | 1610 mm |
| l) Min. height of CSP *: | 740 mm |
| m) Hoisting range: | 870 mm |
| p) Maxi. internal width: | 815 mm |
| q) Internal width at maximum reach: | 775 mm |
| r) Min. internal width: | 465 mm |



Weight:

- | | |
|---------------------|-------|
| Weight in total: | 47 kg |
| Heaviest component: | 16 kg |

7. ENVIRONMENT AND QUALITY

Pallas 175 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 mobile stand-aid can be made through Winncare Nordic. After useful lifetime Winncare Nordic will receive the unit back and split the individual fractions in an environmentally friendly way either through reuse or recycling.

Fractions that contain halogens, aluminium, lead acid batteries, ABS plastic, steel may damage the environment if not handled in an environmentally responsible way.

7.2 Battery

Pallas 175 is equipped with 2x12V batteries which may be returned either to the 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 and ISO 13485.

These certifications mean that the products and the company complies with the international standards for quality management, environmental management and standards for traceability of medical products.

Pallas 175 mobile hoist 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

Accessories:

Item number	Description
017-00002	T-grip
017-01410	Foot platform 50 mm
017-01411	Foot platform 100 mm

Manufacturer:

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