Wealden Rehab
Care Equipment Excellence

Heron Pool Lift

Operation & Maintenance Manual

N3242-1 Heron Lift E with spreader bar
N3242-3 Heron Lift Max E with spreader bar
N3242-0 Heron Lift E with integral seat
N3242-2 Heron Lift Max E with integral seat
N5429 Mobile Base For Liftpoolseat
N2463 Pool Socket
N2465 Pool Plate

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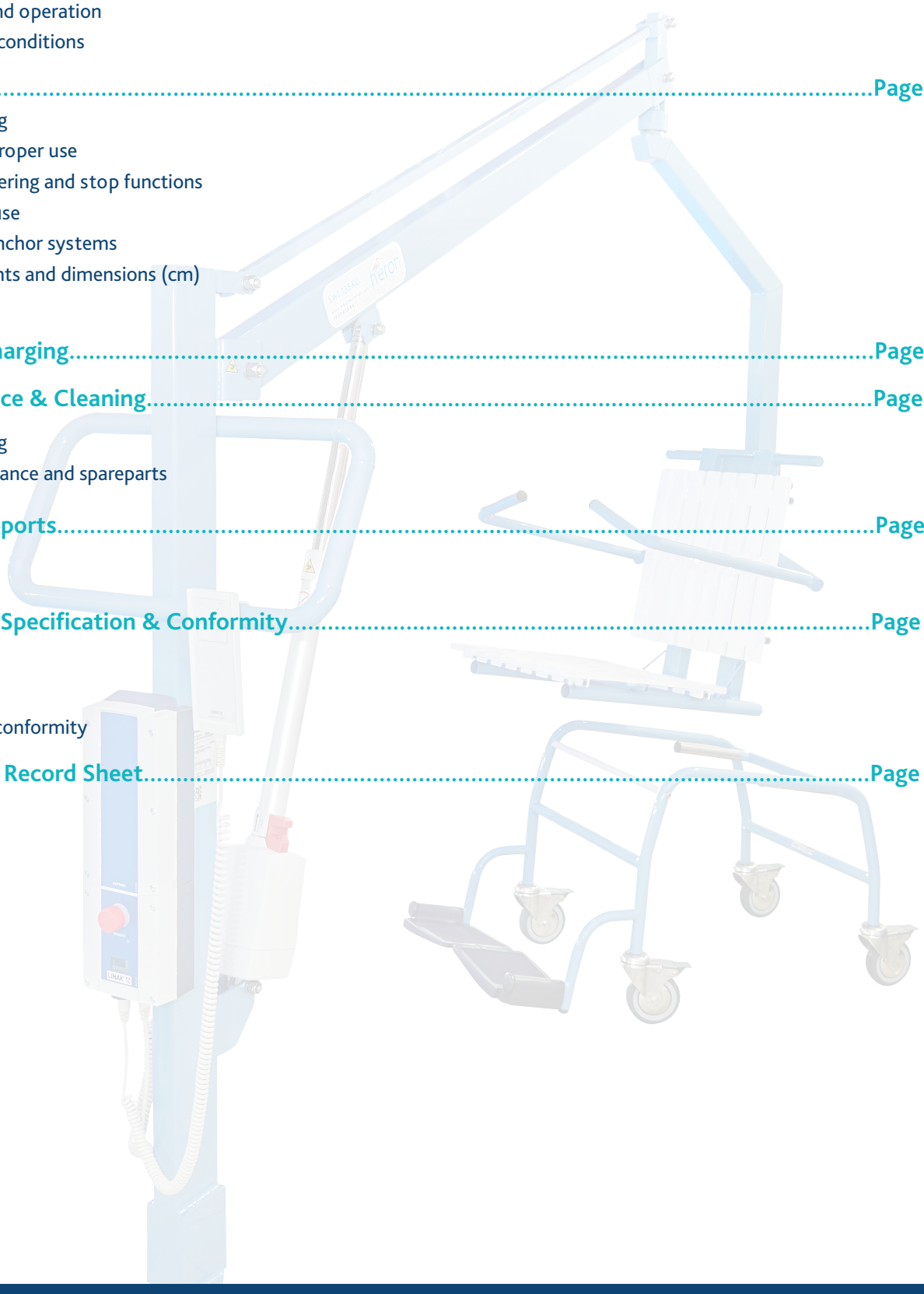

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1 General Information
2 Equipment Description

Congratulations! You have purchased a high quality product, designed and built to serve you for a long time, as long as you follow the instructions for use and maintenance described in this manual.

Please note that we might modify some technical features, without notice, as part of our ongoing product improvement process.

Please read these instructions carefully before using the equipment

Manufacturer: Chinesport S.p.A., Via Croazia No. 2, 33100 Udine - Italy

Purpose and content of these instructions

Customers must read this manual carefully in order to use the equipment properly, safely and autonomously.

Information on equipment specification, operation, maintenance, spare parts and safety can be found here.

Chinesport refuses all responsibility for damage to people and/or property resulting from failure to comply with these instructions.

Target readership

This manual is intended for users (therapist - attendant), it must always be kept with the equipment and stored in a safe place for future reference.

2 Equipment Description

Intended use & operation

Electric hoist for easy transfer of disabled users into a swimming pool. Painted stainless steel.

Available versions: HERON with a sling bar and HERON with an integral removable seat.

The equipment can rotate 360° and is fixed to the floor by means of an external floor plate (N2465) or a recessed lift socket (N2463).

HERON with an integral removable seat requires item N5429 Heron Seat Transporter Base to be attached to the seat for indoor patient transfers (Fig.4).

Environmental conditions

The equipment can only be used in indoor swimming pools.

Storage

The following environmental conditions must be ensured when the equipment is to be stored:

- relative humidity: 10% - 90 %
- temperature: -10 °C - +50 °C

If the product is to be stored for a long period of time, it is necessary to:

- leave the emergency button depressed
- check operation of the hoist actuator and recharge batteries at least every six months.

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3 Safety
4 Setting-up for Use

General warning

The user must read this manual carefully, especially the safety precautions described below.

Proper & improper use

This equipment has been designed and built to carry out only the functions described in this manual.

It must not be used:

- in an explosive atmosphere
- in bad weather
- if the original product has been tampered with or modified
- with anchors, slings, lifting supports or spreader bars other than those prescribed by CHINESPORT
- by untrained personnel
- if medical staff have advised against using it
- with devices that may interfere with equipment operation

Do not use and do not store the battery charger in humid environments or near liquids.

Do not use the equipment if no lifeguard is at the pool.

Emergency lowering & stop functions

The machine can be stopped by:

- depressing the "lift/lower" buttons
- pressing the emergency button (Fig.3); to disable the button and put the equipment back into operation, rotate the button in the arrow direction

Warning: **Press the emergency button when you need to stop the equipment immediately.**

The emergency lowering can be enabled by:

- pressing the relevant button on the control box with a pointed tool (Fig.3)
- pulling up the emergency lowering mechanical lever

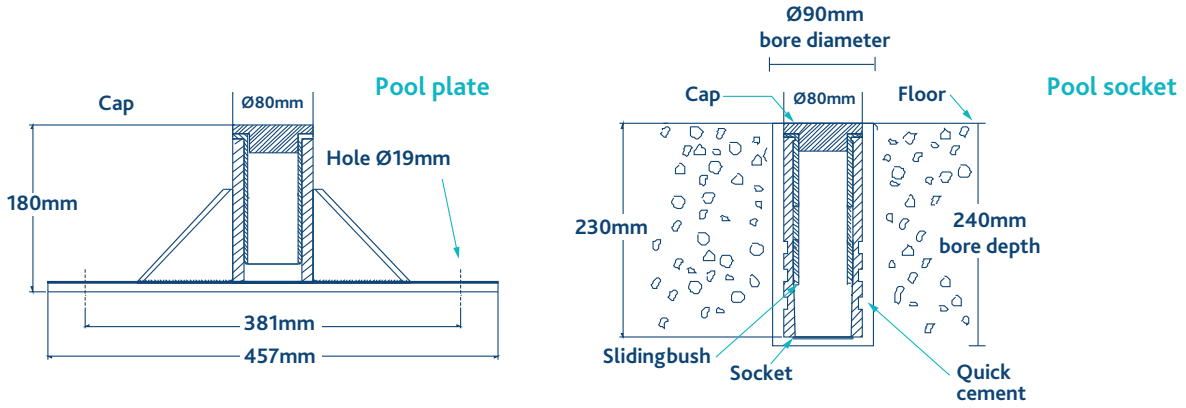
Warning: **The emergency lowering speed is directly proportional to the action performed on the lever: the higher the lever is pulled, the greater the lowering speed.**

4 Setting-up for Use

Installing the anchor systems

The swimming pool hoist must be installed by fixing either the pool plate or the retractable pool socket to the floor.

Fig.1



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4 Setting-up for Use

Installation requirements

The anchor system can be installed only:

- in concrete flooring with a R_{ck} coefficient 25N/mm²
- in concrete flooring with minimum depth 250mm
- minimum 300mm from any edges
- after making sure that no pipes or electric cables pass through the drilling area
- using the stainless steel anchoring elements supplied (plate only)

Pool Plate

- After placing the plate in the position chosen for installation (see fig.2), mark the location of holes
- Remove the plate, cut 4 Ø16x120mm holes and insert the dowels into them up to 110mm
- Place the plate and use shims to perfectly level it, otherwise the Heron mast will be harder to rotate
- Bolt by tightening the nuts and washers with a tightening torque of 100N/m, checking the level at the same time
- Fix the guard to the plate with a silicone string
- Remove the protective cap and insert the hoist into the support
- Before using the hoist, check the plate resistance by applying a load of 202.5 Kg for 20 minutes on the area of the hoist that will bear most of the load: the anchoring system must be capable of withstanding the load applied

Pool Socket

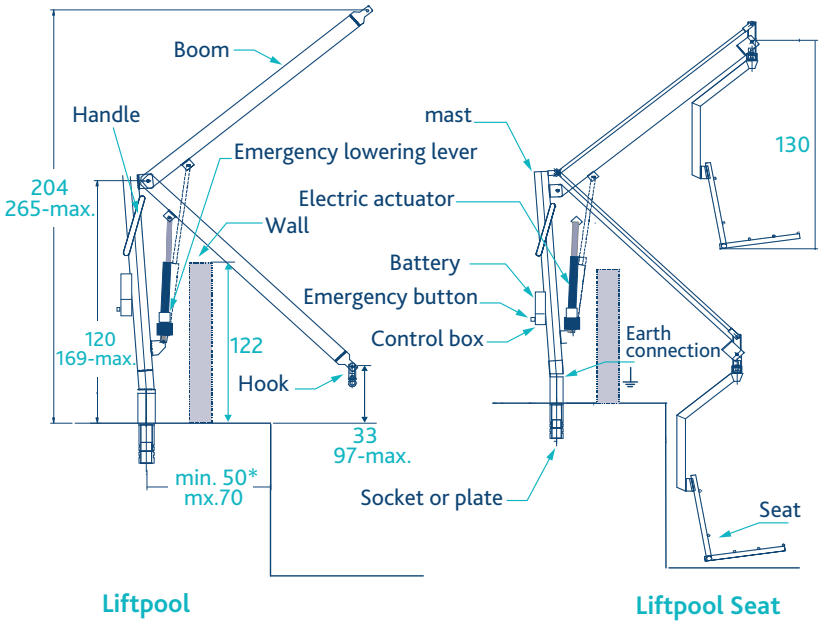
- Determine the proper position for installing the hoist (see fig.2)
- Bore a hole 90mm in diameter and 240mm deep
- Put a shim on the bottom of the hole so that the socket and cap are level with the floor
- Remove the socket and fill 1/4 of the hole with fluid quick cement
- Insert the socket and press it until the cap is flush with the floor

Make sure that socket is perfectly perpendicular, secure the position with wedges and fill up with the remaining quick cement. Wait at least 24 hours, then remove the cap and insert the hoist.

- Before using the hoist, check the socket resistance by applying a load of 202.5 Kg for 20 minutes on the area of the hoist that will bear most of the load: the anchoring system must be capable of withstanding the load applied

Main components & dimensions (cm)

Fig.2



Liftpool

Liftpool Seat

The height values in the picture refer to the hoist socket installation; using plate installation increases the lift height dimensions by 18cm

*In the event of installation in pools with barriers, check that the position of the hoist does not hinder movements (360° rotation of the mast)

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4 Setting-up for Use

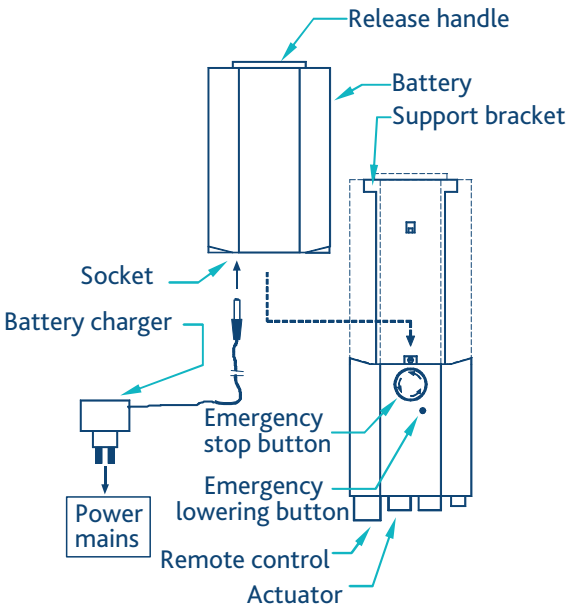
To assemble the equipment do the following

1. Remove all the components from the packaging.
2. Insert the mast into the socket or into the plate and connect it to the "EARTH" electric system cable. Use a "spiral" cable to allow the rod to rotate.
3. Insert the boom into the mast and tighten the fixing bolt to take up slack, thus ensuring free rotation.
4. Attach the electric actuator with the motor downwards between the rod and boom and tighten the fixing bolts until they come into contact with the forks.
5. Disassemble the control box unit as follows (Fig.3):

- Release the battery from its support - bracket by pulling the release handle and the battery upwards
- Pull the control box out of the bracket after removing the fixing screw

6. Attach the control box bracket to the mast and tighten the screws, reassemble the control box unit by following the steps described above – see paragraph 5 – in reverse order (Recharge battery for at least 24 hours before using it for the first time).
7. Connect the remote control and the actuator connectors to the control box (Fig.3). Make sure that the pins are fully inserted, otherwise the hoist may not work.

Fig.3



Use

Heron with spreader bar

1. Apply the sling to the patient (refer to special instructions).
2. Press the 'Lower' button on the remote control until the desired height is achieved and connect to the sling.
3. Raise the patient, by pressing the 'Lift' button, until the patient remains suspended and rotate the equipment towards the swimming pool, using the handle and the boom of the hoist.
4. Lower the patient into the water holding down the 'Lower' button until the desired height is achieved.

Heron with integral seat

1. Transfer the patient onto the seat - mobile base and hook the seat to the Heron boom (refer to specific instructions, see Fig. 4).
2. Raise the patient, pressing the 'Lift' button, until the patient remains suspended.
3. Remove the mobile base from the seat.
4. Rotate the equipment towards the swimming pool, using the handle and the boom of the hoist.
5. Lower the patient into the water holding down the 'Lower' pushbutton until the desired height is achieved.

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4 Setting-up for Use

Warning

The equipment does not feature an emergency device for taking the patient out of the pool in case of fault; for this reason, a lifeguard must always be available when you use the equipment.

- Make sure limbs are not inserted in parts subject to movement
- The equipment must be parked in an area where it cannot cause any hindrance or hazard
- Two persons are required to remove and carry the equipment
- Always insert the cap supplied when the hoist is removed from the socket
- The battery pack can be removed; we recommend the battery is stored on the charger, and that the charger remains switched on while the battery is connected

Mobile base – item N5429 for Heron Seat

The mobile base is an accessory to be applied to the seat of the HERON to transfer the patient from the changing room to the hoist and vice versa. The mobile base is supplied with the seat.

To attach the seat to the hoist, do as follows (Fig.4)

1. Transfer the patient onto the seat - mobile base with the wheel brakes engaged, fold back the safety armrests.
2. Unfold the footrest.
3. Unlock the brakes and position the Heron lifting boom.
4. Pull out the catch and remove the pin.
5. Lower the boom until it fits into the seat anchor plate: the guide pin will rest on the upper slot.
6. Insert the pin until the catch engages. Make sure that the catch is in its seat again.
7. Operate the hoist upwards by a few cm, and remove the mobile base.
8. To release the seat, repeat the above operations in reverse order.

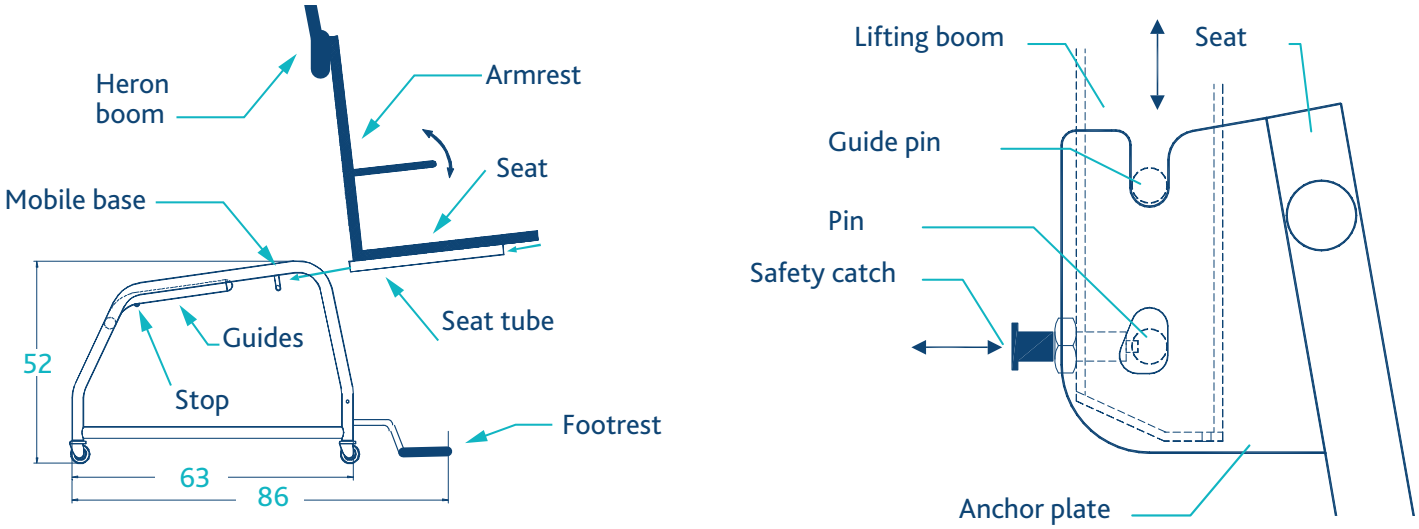

Fig.4

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4 Setting-up for use

Warning

- Do not immerse the mobile base into water
- Before you use the hoist, make sure the electrical plug is properly inserted
- Use the footrest during transport
- During movements fold down the seat armrests to make sure that the patient is supported
- Accompany the patient supporting device throughout the movement to avoid unwanted movement
- Do not transfer the patient onto the seat without the mobile base, the rebound might damage the hoist

Battery charging

You will hear a "flat battery warning" when the batteries reach 50% of their charge, therefore you must recharge them for at least 8 hours; however, we recommend that you always recharge them after each use as follows:

1. Release the battery from its support - bracket by pulling the release handle and battery upwards.
2. Connect the power supply unit to the mains with a voltage of 220V/50Hz and insert the charging pin into the relevant socket located on the battery.
3. When charging is completed, disconnect the battery charger and reinsert the battery into its seat – control box until it clicks into place.

Battery life can be extended if you avoid discharging batteries completely.

We recommend you to buy a spare battery for maximum efficiency.

Warning

- Battery must not be recharged in the bathroom and/or swimming pool area
- Check that the mains voltage matches the voltage specified in the battery charger technical specification
- Do not connect to an electric system which is not in full compliance with all the applicable regulations
- Only use the battery charger supplied
- Batteries will run down if not used for a long period of time
- Leave the emergency button depressed when the equipment is not to be used for a long period of time
- Always replace batteries with batteries of the same type and features
- Dispose of the batteries only at the authorised collection points

5 Maintenance & Cleaning

Warning: **Before carrying out any maintenance, remove the battery.**

Routine maintenance can be carried out by users and/or assistants who are familiar with these instructions.
A LOLER Test Certificate is required every 6 months and should be carried out by a qualified technician.

The inspection must include a visual and functional check on the following elements:
- Structure, anchors, components, mechanisms, controls, safety systems;
- Supporting devices for the individual (slings, spreader bar, seat, mobile base, etc.)

Check the safety of the equipment after any "rough treatment" (e.g..: falls, bumps, etc.) and whenever in doubt.
Use a cloth and a mild detergent to clean the painted parts.

To prevent oxidation of chromed parts, every 2 weeks clean them and all the parts subject to friction (e.g..: actuator sleeve, arm-seat anchoring unit, etc.) with a stainless steel cleaner. Batteries are sealed and therefore maintenance free, they only need to be recharged.

Warning: **The equipment is not protected against water spray.**

Troubleshooting

Problem	Cause	Solution
The equipment won't work	Emergency button is ON	Disable
	Connectors disconnected or improperly plugged in	Check connections
	Flat batteries	Recharge
	Burnt battery protection fuse	Contact service centre
	Damaged control box	Contact service centre
Batteries do not recharge	Battery charger is not powered or is improperly connected	Check connections Check mains voltage
	Damaged battery charger	Replace
	Spent batteries	Replace
Equipment stuck in raised position	Damaged control box – remote control or actuator	Use emergency lowering Contact service centre
The equipment keeps moving although the buttons are not pressed	Damaged control box – remote control	Use emergency stop button Contact service centre
Control box acoustic signal triggered	Batteries at 50% of charge	Recharge as soon as possible

Technical assistance & spareparts

Wealden Rehab offers technical assistance by phone. **01634 813388**. Outside business hours you can email us at **hello@wealdenrehab.com**. Here follows a reference list of the spare parts that are most subject to wear and tear.

	Code	Description	Quantity
1	N4954	CBJ2 IP65 Grey Control Box	1
2	H2061	BAJ2 IP41 Grey Battery Pack	1
3	H2062	Linak Battery Charger	1
4	N4955	HB71000 IP66 Grey Remote Control	1
5	N4953	LA34 Grey Actuator	1

6 Lifting supports
7 Warranty, specification & conformity

6 Lifting Supports

We recommend ALTOSLINGS to be used with HERON hoists. A mesh sling will dry more quickly.
For their use please refer to the specific instructions regarding the devices.

7 Warranty, Specification & Conformity

Our hoists are warranted for 12 months from the date recorded in the shipping document. During this period parts that may be found to be defective will be replaced or repaired free of charge by WEALDEN REHAB. The warranty does not cover:
effects of normal wear and tear, damage caused during transport and/or due to improper use of the equipment.

Repair is carried out by our authorised dealers and/or at our premises; therefore, the transport costs for delivering any returns shall be paid by customer.

For warranty service, and in any case if you need technical assistance or want to lodge a complaint, please contact our Technical Assistance Manager.

Technical sheet

	N3242-1/ N3242-3	N3242-0/ N3242-2	N2463	N2465	10.4.14255	N5429
Item name	Electric Liftpool	Electric Liftpool-seat (without mobile base)	Socket	Plate	Legrest	Mobile base (without seat)
Dimensions (cm)	See figures					
Weight	35-38max.	55-58max.	5	22	5	10
Max. capacity	135	135	-	-	-	-
Use	Equipment for temporary use: 10%/max 6min/hour					
Electric power supply	Internal control box 24V-2.9Ah Battery charger:230V±10%/50Hz/ 14VA:					
Fuses	Internal components are not accessible					

Product name	HERON E - HERON MAX E Heron plate - Heron socket Legrest for Liftpoolseat Mobile base for Heron seat
Item code	10.4.14190 - 10.4.14230-10.4.14240-10.4.14250 10.1.14185 - 10.1.14165 10.4.14255 10.4.14256
Type of product	Swimming pool hoist accessories
Class it belongs to (Art. 8 of Italian Law Decree No. 46 of 24/03/1997)	I
Class (Liftpool and Liftpoolseat only) (Art 2.2.4-5 of CEI Standard 62.5)	Equipment powered internally
Type (Liftpool and Liftpoolseat only) (Art 2.2.24-25-26 of CEI Standard 62.5)	B

The items described above are made in conformity with European Directive 93/42

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(Legal Rep.)

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8 Inspection record sheet

Equipment	Manufacturer: CHINESPORT S.p.A. 33100 Udine, Italy.	Serial number	Date of first installation

Date of inspection	Operations carried out	Technician's name	Signature	Next due date