




TALLY
USER MANUAL

2021-10
0.3

PRODUCT	TALLY
OTHER NAMES	
PART NUMBER / MODEL	S305
CE CONFORMITY	 <p>Regulation EU 2017/745 - Class I medical device - Rule I Annex VIII</p>
MAIN STANDARDS APPLIED	<p>ISO 14971:2012 UNI EN 12182:2012 IEC 60601-1:2012 IEC 60601-1-2:2014</p>
MANUFACTURER	<p>Neatech.it SRL via A. de Curtis 4/A, 80040, Cercola (NA), Italia Tel. +39 081 555 1946 www.neatech.it – info@neatech.it</p>
INTENDED USE	<p>The product is intended to be used for alleviation or compensation for an injury or disability. Particularly the product is intended to be used by those groups of users with temporary or permanent mobility difficulties confined to a sitting position who need a stable base with height adjustment from the floor to table height.</p>



We have great concerns about quality, safety and usability of our products. We are always working to improve them. Please download last version of this manual at this link.

<https://www.neatech-download.it/s305-manual/>

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SYMBOLS IN THIS MANUAL



WARNING

This symbol means presence of danger for the user or damage for the product. Always follow instructions when this symbol is present.



PINCH HAZARD

This symbol means presence of pinch hazard.



ELECTRICAL WARNING

This symbol means presence of danger related to the presence of electrical energy. Please pay special attention when this symbol is present.



INFORMATION





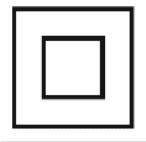

This symbol means general information intended to simplify or best explain the use of the product.



CONTACT INFORMATION

This symbol means the need of contacting an authorized service center or the manufacturer.

SYMBOLS ON THE PRODUCT

 <p>Neatech.it s.r.l. via A. De Curtis 4/A - 80040 Cercola (NA) - Italy 2021 REF S305 SN YYS305XXXXX</p> <p>MEDICAL DEVICE</p> <p>MAX USER WEIGHT 50 kg WEIGHT MAX 25 kg</p> 	<p>This label indicates the manufacturer, the part number, the serial number, the CE mark as medical device, the weight of the device and the max user weight.</p>
<p>24 V  2 x 12 V 1.3 Ah Lead Battery</p> <p>2 min ON / 18 min OFF</p> 	<p>This label indicates the type of power, the type of batteries, the duty cycle and the need for reading the manual before using the device.</p>
<p>IP X4</p>	<p>This symbol indicates the water ingress protection of the device.</p>
	<p>This symbol means that the device is a class II device while charging.</p>
	<p>This symbol means presence of danger for the user or damage for the product. Always follow instructions when this symbol is present.</p>



This symbol means presence of pinch hazard.



This symbol means the presence of a type B applied part.



This symbol indicates the direction of the operating command of the seat lift.



INCIDENT REPORTING

If an incident occurs, please contact the manufacturer.



In order to obtain product safety notices and product recalls, for example by ensuring the supplier has up-to-date contact details visit the website of the manufacturer.



AUTHORIZED SERVICE CENTER

In order to obtain a list of authorized service center, please contact the manufacturer.



This product and all its components can not be treated as household waste. For more detailed information on how recycling and disposal this product contact your local waste disposal service.



Any unauthorized modification to the product may increase the risk of personal injury and damage to the product itself. All modifications should be done by an authorized service center. Do not use any unauthorized accessories or spare parts on the product.



Do not use the product in combination with other medical devices without first having considered any risk due to combination of more products. Please pay special attention to the combination of flame-resistant and non-flame-resistant materials.



WARNING: It is prohibited to use the product or its parts for any purpose other than that indicated. For a correct use please follow the instructions given in this manual. The manufacturer disclaims any responsibility for damages caused by improper use of the product.



Information in this manual may be subject to change without notice. All information, pictures and specifications are based on the product details that were available at the time of preparation of this document. They are representative examples and they are not intended to be exactly as the actual product.



TIPPING HAZARD

Tipping hazard is strongly reduced because of the design of the product according to ISO 13857. In any case, please pay special attention during the adjustments and use of the product to prevent any damage to the user or product itself.



Center of balance of the device and so its stability can be affected by user position, use of a backpack, tilting of the seat



TEMPERATURE

The temperature of some surfaces may increase when the product is exposed to external heat sources as direct sunlight.



PINCH HAZARD

Make sure you have proper space in areas you will travel through to minimize pinching or entrapment of body parts.



INFORMATION

For information on how to obtain information and instructions in a format appropriate for use by visually impaired people please contact the manufacturer.



Do not operate the product if it is behaving abnormally or erratically.



Do not stand on the product. Always use caution when transferring in or out of the seat. Every precaution should be taken to reduce the transfer distance. Also be certain the wheel locks are engaged to prevent the wheels from moving. Do not let children use the device without supervision.



Do not install, maintain or operate the product without reading all warnings and this entire manual. Always keep this manual in connection with the product.



USE OF THE PRODUCT WITH SEATING SYSTEM NOT IN DEFAULT POSITION

Seat tilt may vary the center of gravity of the system product + user and increase tipping risk.



Do not carry passengers on the product independently of the age of the passenger. The product is not designed for weight training and is unsafe for use as a seat while weight training. Do not shift your weight or sitting position toward the direction you are reaching as the product may tip over. Do not stand on the frame of the product. **Some pathologies may limit your ability to use your device safely. Be sure to consult with a doctor about your physical limitations.**



Dealing with uphill

The product is not explicitly designed to deal with uphill. Please pay special attention when dealing with uphill.



Dealing with downhill

The product is not explicitly designed to deal with downhill. Please pay special attention when dealing with downhill.



Dealing with side slope

The product is not explicitly designed to deal with side slope. Please pay special attention when dealing with side slope.



Turning with the product

When turning with the product, always use great caution.

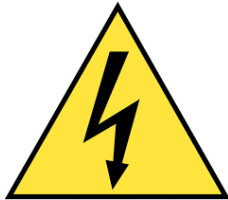


Dealing with obstacles

The product is not explicitly designed to deal with obstacles. Please pay special attention when dealing with obstacles.



The product may come to a sudden stop at any time during operation.



ELECTROMAGNETIC RADIATION DANGER

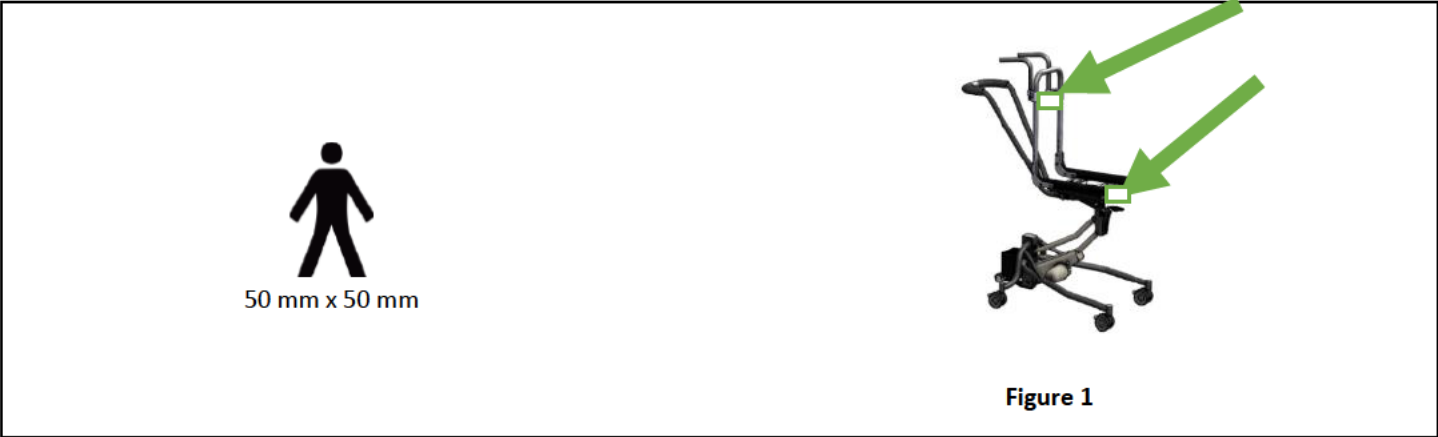
The behavior of the product may be affected by electromagnetic fields created by transceivers such as: Citizens band (CB) radios, walkie-talkies, fire and police radios, cellular phones, lap-top computers, commercial radio and television broadcast antennas. PLEASE USE CAUTION in the presence of these devices. All parts of the device should maintain a distance of at least 30 cm (12 inches) from any transceivers. Electromagnetic radiation can cause your product, without warning, to move by itself or to move in unintended directions. If any of these occur, it could result in severe injury to you or others. Electromagnetic radiation can damage the control system of your product. There is no way to know the effect on electromagnetic immunity if you add accessories or modify this product. Any change to your product may increase the risk related to electromagnetic radiation. Parts from other suppliers have unknown electromagnetic properties. **The product might disturb the operation of devices in its environment.**



Regarding EMC safety the device can't be used close to other devices involved in any diagnosis or similar, such as NMR or similar. Moreover, the structure of the chassis can't be modified.

Applied parts

On the device there are no applied parts intended to exchange energy with the user. There are some parts normally in contact with the user that must be considered as type B applied parts.



Lift of the product

Do not lift the product with a user on board. If you really need to lift the product, it is suggested to grab it with the help of at least one other people. Grab the product using the tubes as shown in figure.



Figure 2



WARNING

It is not possible to use the product as a seat in a motor vehicle.

1. PREPARATION FOR FIRST USE

1.1. Unpacking

<p>Inside the box there are:</p> <ul style="list-style-type: none">• Product TALLY• Charger• Manual	 <p>PACKAGING DISPOSAL</p> <p>To properly recycle the packaging materials follow instructions provided by your local waste disposal service.</p>
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The product is delivered already mounted and ready to use. Before starting to use the product please check if all described components are present. It should be better if first set-up is performed by an authorized service center.

1.2.Product presentation

Tally is a stable and easy to use device, adjustable in height and with tilting seat.



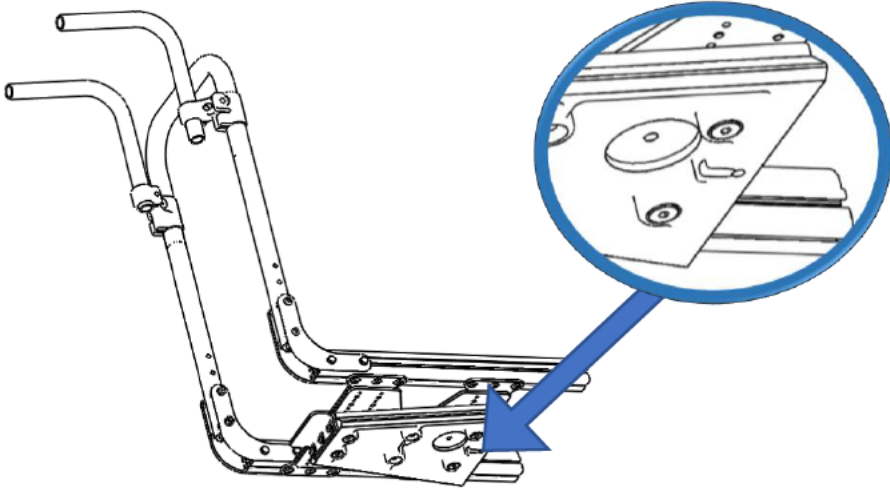
It is available both as an indoor base, with 4 D75 mm castors equipped with brakes, and as an outdoor base with D300 mm rear wheels with drum brake and D75 mm castors.

The lift adjustment can be carried out through a gas piston or with an electric actuator, while the tilting of the seat only with a gas piston.



2. USE OF THE PRODUCT

2.1. Lock and release of postural system

 <p>Average needed time: <1 min</p>	 <p>Difficulty level: Easy</p>	
 <p>Figure 3</p>		<ul style="list-style-type: none">• To fix the postural system, insert the postural system into the interface until the plunger in the interface meets the hole under the postural system itself.

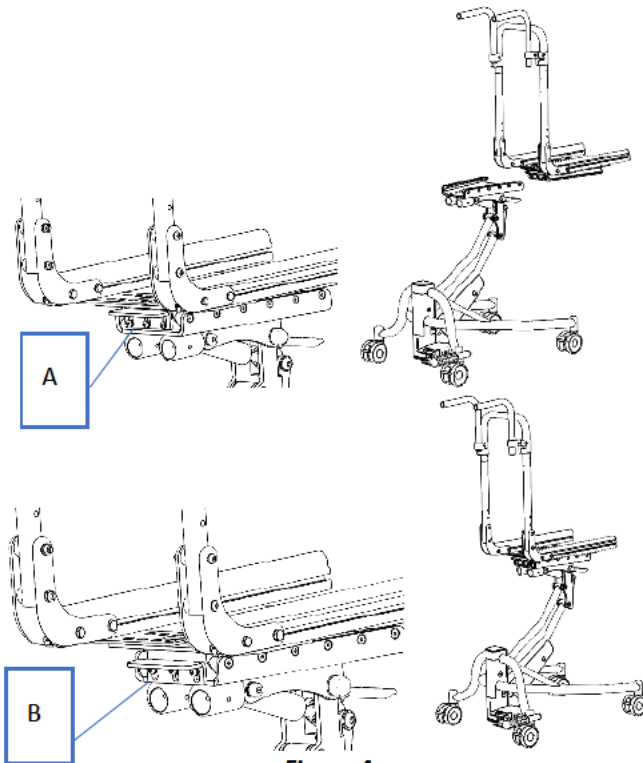






Figure 4

- Lower the lever shown in figure (POS A) to lock the device.
- In order to release the device, rise the lever shown in figure (POS B) and keep the plunger pulled. Push the device forward to remove it.

2.2. Use of parking brakes

 <p>Average needed time: <1 min</p>	 <p>Difficulty level: Easy</p>	
 <p>Figure 5 Indoor configuration</p>	 <p>Figure 6 Outdoor configuration</p>	<ul style="list-style-type: none">• Act on the levers shown in figure.• For outdoor configuration the lever is on the lower part of push handle. This lever is used to operate drum brake. In order to operate the brake pull the black lever up. It is possible to lock the brake pulling the black lever up and pushing the red lever down. In order to unlock the brake slightly pull the black lever up.



WARNING

When you operate the brakes, operate always all brakes. The use of the product with only one some wheels locked could be dangerous.

When brakes are activated it should not be possible to move the product.

2.3.Seat tilting



Average needed time:

<1 min



Difficulty level:

Easy

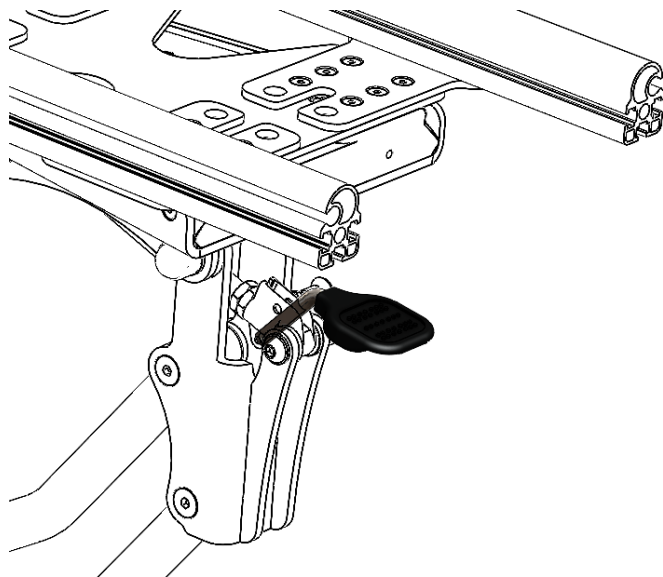


Figure 7

- Act on the lever shown in figure and tilt the seat.





PINCH HAZARD

Make sure you have proper space in areas you will travel through to minimize pinching or entrapment of body parts.



Figure 8

2.4.Seat lift

 <p>Average needed time: <1 min</p>	 <p>Difficulty level: Easy</p>	
 <p>Figure 9 Manual configuration</p>	 <p>Figure 10 Powered configuration</p>	<ul style="list-style-type: none">• Act on the lever or the push button shown in figure and lift the seat.
<p>+ -</p>		<p>This symbol indicates the direction of the operating command of the seat lift.</p>

PINCH HAZARD

Make sure you have proper space in areas you will travel through to minimize pinching or entrapment of body parts.



Figure 11

2.5. Battery charging

In order to recharge batteries, use only the provided charger or one recommended by the manufacturer. The manufacturer is not responsible for any damage to person or objects resulting from the use of non-original product.



CHARGER SPECIFICATION

24 V -MIN 150 mA MAX 500 mA - Charge profile for AGM batteries - Input 100-240 V AC 50-60 Hz - Charge voltage 27.6 V DC +/- 2% - IEC 60601-1 compliant

- Connect the power cord to a power supply 230 V.
- Connect the cable as shown in Figure.



Figure 12

- When batteries are loaded unplug the charger from the power line and the cable from the device.



RUNNING-IN PERIOD

Typically, batteries are able to offer 100% performance after about 15-20 cycles.



BATTERIES SPECIFICATION

2x 12 V 1.3 Ah 97x43x52 mm – Faston 4,8 mm – 580 g



WHEN AND HOW IT IS NECESSARY TO CHARGE BATTERIES?

It is very important to charge batteries every day, even if they are not completely discharged. Each battery is subject to a normal self-discharge, so batteries that are not used for long time will discharge by itself. **It is very important to don't let batteries uncharged for long time.**

It is very important to complete every cycle of charging. Charging time is influenced by multiple factors such as remaining battery power, battery state of aging and temperature. However, the approximate charging time is about 3 hours.



Battery charging should be done in well ventilated environments. Never charge in bathroom or wet room.

When the charger is connected it is not possible to use the device. Don't use the device during the charge.



SHOCK HAZARD

Check if charger requirements data matches with the network power (voltage, frequency)



RELEASE DANGER

Any impact to the batteries could cause a loss of fluids. Please pay special attention.



BATTERIES DISPOSAL

To properly recycle the batteries follow instructions provided by your local waste disposal service.

2.6. Transport and storage

The product can be transported in the storage compartment of the vehicle even without any package. The product can be also shipped via air. If it is necessary to ship the product it is very important to protect it with an appropriate package.

It is not possible to provide a universal package, so the user should provide himself for it. The used package must be water and dust resistant and strong enough to protect the product from any hurts. When inserting the product into the package protect any protruding parts with some foam or similar.

If you are not willing to use the product for a long period, keep it safe in a clean area and away from heat.



If you are not going to use the product for a long period, it is preferable to remove batteries and keep them in another place.

3. MAINTENANCE

Regular maintenance helps to keep intact the functionality and safety of the product. Inadequate or lack of care and maintenance may cause a limitation of the warranty. Avoid prolonged contact of the product with water. It may cause oxidation of the metal parts. Avoid long exposure of the product to direct sunlight.



WARNING

Any work on the product must be performed by an authorized service center.

3.1.Cleaning



WARNING

To clean the product do not use high-pressure water spray devices. Do not use stain removers, solvents, acids.

PLASTIC AND METAL PARTS

Simply use a cloth moistened with a neutral detergent.

UPHOLSTERY



Machine wash in hot water at 60 °C



Drip dry



Do not wring



Do not bleach

3.2.Controls to be performed on the product




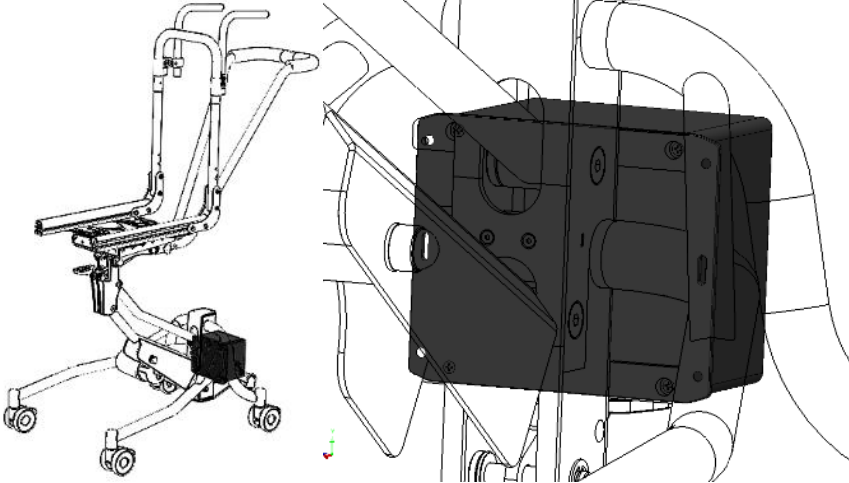
Type of operation	
A	Operation intended to be performed by the user.
B	Operation intended to be performed by an assistant.
C	Operation intended to be performed by an authorized service center.

Operation	Frequency	Type of operation
Clean the product	Weekly	B - Assistant
Check tire usury	Monthly	B - Assistant
Check brakes	Monthly	B - Assistant
Check all gas springs to verify any oil leakage.	Monthly	B - Assistant



In order to maintaining basic safety and essential performance with regard to electromagnetic disturbances for the expected service life do not change cables, motor, batteries or other powered parts with non-original ones. No other action is required.

3.3. Battery replacement

 <p>Average needed time: 5 min</p>	 <p>Difficulty level: Easy</p>	<p>PH SCREW DRIVER</p> 
 <p>Figure 13</p>		<ul style="list-style-type: none">• Unscrew the screws shown in figure to open the battery pack.

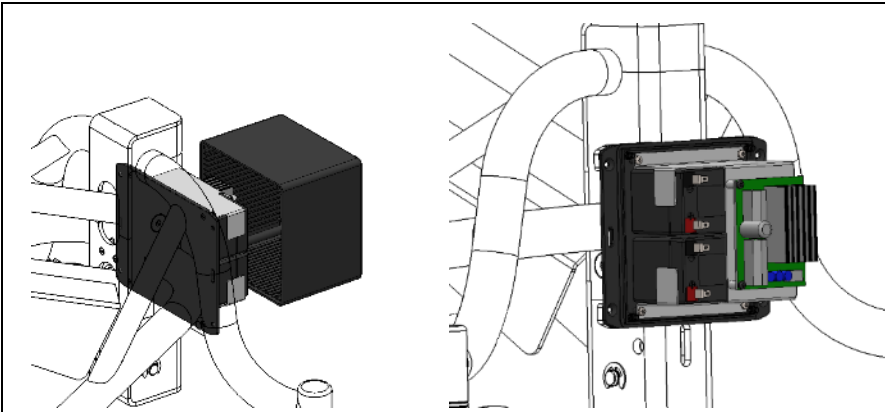


Figure 14

- Unscrew the screws shown in figure.
- Remove old batteries and mount new one following instructions in reverse order. Please pay special attention to colors of wiring.

WARNING

There is a PCB with a fuse that is used to connect in series the 2 batteries. When disconnecting batteries, always disconnect first the PCB and then cables. When connecting batteries please connect first cables and then PCB.

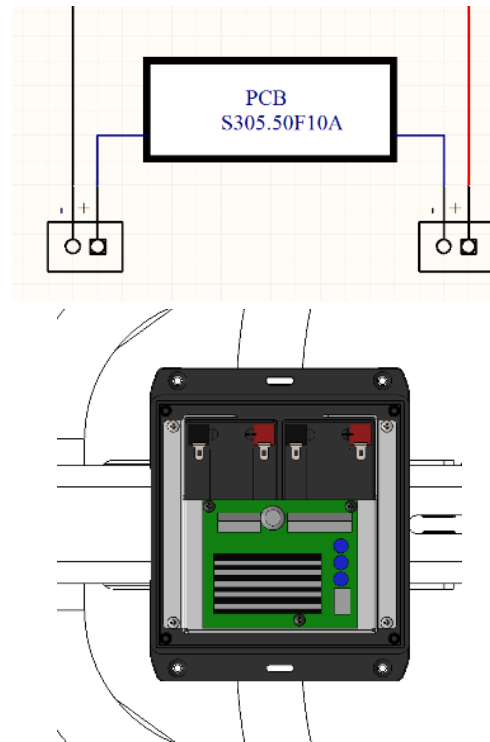


Figure 15



BATTERIES SPECIFICATION

2x 12 V 1.3 Ah 97x43x52 mm – Faston 4,8 mm – 580 g – Lead Batteries



FUSE SPECIFICATION

5X20 – 6.3 A - Time - current information: 1.5 In>1 h, 2,1 In>2 min, 2,75 In>10 s, 4 In>3 s, 10 In>300 ms



Contact the manufacturer to have more information about wiring diagram.



RELEASE DANGER

Any impact to the batteries could cause a loss of fluids. Please pay special attention.



BATTERIES DISPOSAL

To properly recycle the batteries follow instructions provided by your local waste disposal service.

3.4.Reuse

The product is suitable for reuse. Before dispensing it, the product must be cleaned, and subjected to maintenance. The operating instructions are included in this manual and must also be provided when the product is passed on.



WARNING

This operation must be performed only at an authorized service center.

4. TECHNICAL SPECIFICATION

Total mass (min-max) [kg]	MIN 18 kg – MAX 25 kg
The product conforms to requirements for resistance to ignition in accordance with ISO 7176-16 [yes-no]	Yes
Maximum user mass	50 kg
Overall dimensions (width, length and height) ready for use and when folded or dismantled (mm) (min-max) [mm]	Height: MIN: 470 – MAX 600 Width : MIN 550 – MAX 670 Length with legrest: MIN 900 – MAX 1000
Static stability downhill (min-max) [°]	ND
Static stability uphill (min-max) [°]	ND
Static stability sideways (min-max) [°]	ND
Obstacle climbing (min-max) [mm]	ND
Seat plane angle (min-max) [°]	MIN +15 - MAX 45
Effective seat depth (min-max) [°]	MIN: 320– MAX: 440 mm
Seat surface height at front edge (min-max) [mm]	MIN 340 MAX 815 mm
Backrest angle (min-max) [°]	MIN 90° - MAX 135°
Backrest height (min-max) [°]	MIN 400 mm – MAX 550 mm
Footrest to seat distance (min-max) [mm]	ND
Leg to seat surface angle (min-max) [mm]	ND

Armrest to seat distance (min-max) [mm]	ND
Expected lifetime of the assistive product [years]	5
Operating temperature	MIN -10 °C – MAX +40 °C
Storage temperature	MIN -20 °C – MAX +45 °C
Emission group	1
Emission class	B
Immunity test level	10 V/m
ESD Test nun-insulated parts	8 kV
ESD Test insulated parts	2, 4, 8, 15 kV
Tested electromagnetic spot fields	<p>385 Hz – PolarisationH – Pulse modulation 18 Hz – Operation mode 2 – Dwell time 1 s</p> <p>450 Hz – PolarisationH – Fm ±5 kHz modulation 1 kHz sine – Operation mode 2 – Dwell time 1 s</p> <p>710, 745, 780 Hz – PolarisationH – Pulse modulation 217 Hz – Operation mode 2 – Dwell time 1 s</p> <p>810, 870, 930 Hz – PolarisationH – Pulse modulation 18 Hz – Operation mode 2 – Dwell time 1 s</p> <p>1720, 1845, 1970 Hz – PolarisationH – Pulse modulation 217 Hz – Operation mode 2 – Dwell time 1 s</p> <p>2450 Hz – PolarisationH – Pulse modulation 217 Hz – Operation mode 2 – Dwell time 1 s</p> <p>5240, 5500, 5785 Hz – PolarisationH – Pulse modulation 217 Hz – Operation mode 2 – Dwell time 1 s</p>

385 Hz – PolarisationV – Pulse modulation 18 Hz – Operation mode 2 – Dwell time 1 s

450 Hz – PolarisationV – Fm ± 5 kHz modulation 1 kHz sine – Operation mode 2 – Dwell time 1 s

710, 745, 780 Hz – PolarisationV – Pulse modulation 217 Hz – Operation mode 2 – Dwell time 1 s

810, 870, 930 Hz – PolarisationV – Pulse modulation 18 Hz – Operation mode 2 – Dwell time 1 s

1720, 1845, 1970 Hz – PolarisationV – Pulse modulation 217 Hz – Operation mode 2 – Dwell time 1 s

2450 Hz – PolarisationV – Pulse modulation 217 Hz – Operation mode 2 – Dwell time 1 s

5240, 5500, 5785 Hz – PolarisationV – Pulse modulation 217 Hz – Operation mode 2 – Dwell time 1 s

4.1. Drawings

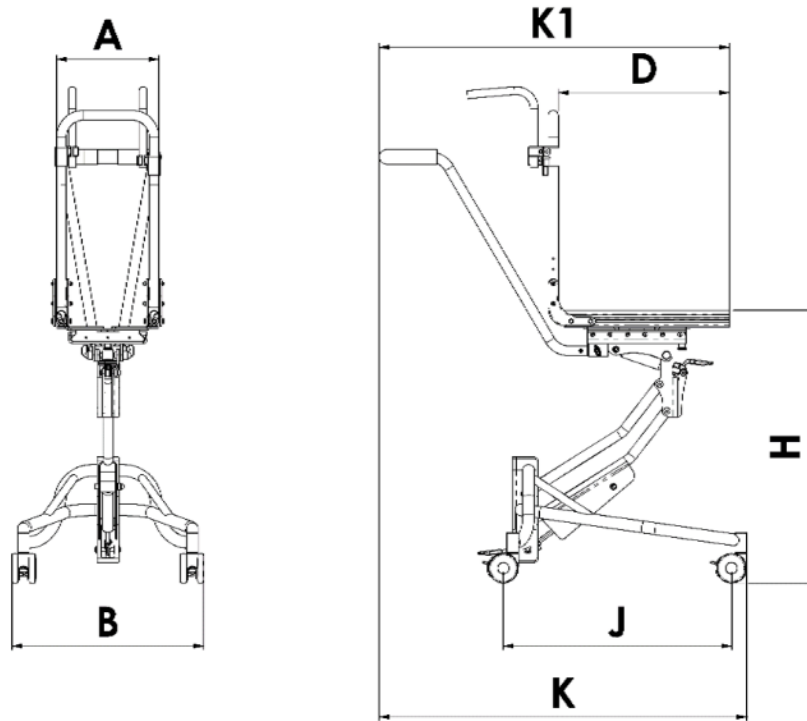


Figure 16

A	260 mm			280 mm			300 mm			320 mm		340 mm	
D	320 mm	380 mm	440 mm	340 mm	400 mm	440 mm	360 mm	420 mm	440 mm	380 mm	440 mm	380 mm	440 mm
K1 [mm]	MIN 805 MAX 880	MIN 865 MAX 940	MIN 925 MAX 1000	MIN 825 MAX 900	MIN 885 MAX 960	MIN 925 MAX 1000	MIN 845 MAX 920	MIN 905 MAX 980	MIN 925 MAX 1000	MIN 865 MAX 940	MIN 925 MAX 1000	MIN 865 MAX 940	MIN 925 MAX 1000

B	Indoor base	Outdoor base
		470 mm
J	660 mm	765 mm
K	700 mm	805 mm
H	MIN: 340 mm MAX 675 mm	MIN 485 mm MAX: 815 mm

5. Assistance and warranty terms

5.1. Warranty terms

Definitions

- **MANUFACTURER**: Manufacturer means the legal person who manufactures a product. For the scope of the following document, the manufacturer is:

Neatech.it s.r.l.

via Antonio de Curtis 4/A – 80040 – Cercola (NA)

Tel. +39 081 555 1946 – info@neatech.it – neatech@pec.it – www.neatech.it

P.IVA IT04812481218 – REA NA715393

- **CUSTOMER**: Customer means the natural or legal person who buys a product from the manufacturer. For the scope of the following document, the Customer is the holder of the financial document issued by the manufacturer following the supply of the product.
- **PRODUCT**: Product is the good supplied by the manufacturer to the customer in execution of a purchase order

Scope of the guarantee

The manufacturer undertakes to remedy any defect, lack of quality or lack of conformity of the products related to him as a result of design, construction errors or defects in the material that occurred during the warranty period.

Period of application of the guarantee

The warranty period begins with the customer's billing date. The duration of the warranty period varies according to the type of product.

Type of product	Warranty period [months]
Complete product	24
Parts and accessories (excluding batteries)	24
Batteries	6

Table 1

Any repairs or replacements under warranty do not alter the original period of application of the warranty.

Exclusions

The warranty does not cover wearing parts.

Following there are some examples of parts subject to wear.

- Wheels
- Padded parts (polyurethane foams, viscoelastic)
- Upholstery (including canvas)
- Handles and knobs
- Fuses and bulbs
- Electric motor brushes
- Filters

The warranty is limited to damage related to the product and cannot under any circumstances cover damage caused to third parties as a result of product failure.

The warranty does not cover parts damaged by overload, inappropriate use, alterations and repairs made by unauthorized third parties. The warranty is not valid in the event of tampering, incorrect storage, incorrect or unauthorized maintenance.

5.2.Serial number

For any report or assistance request, please communicate the serial number mentioned on the label in the position shown in figure.



Figure 17

Note

Neatech.it s.r.l.
Via A. De Curtis 4/a
80040 Cercola (Na) Italy
ph. +39 081 5551946
fax +39 081 5552507
e-mail info@neatech.it
www.neatech.it