



*Magix6*

Owner's Manual

Electric Wheelchair

Serial Number:

Date of purchase:



Your service specialist in  
Canada:

## Technical and operational guidelines.

Please read this manual carefully and follow the safety and technical guidelines before initial use of the power wheelchair.



### Caution :

1. During the transfers the wheelchair should be turned off. Power off the electrical control before sitting in the wheelchair and before you leave!
2. Do not wear loose clothing while operating the wheelchair. Hand bags or other articles of clothing near the drive line of the wheelchair could get caught and wound in the wheels causing personal injury or damage to the equipment.
3. It is prohibited to hang objects on or from the backrest.
4. Danger of crushing injury. Always ensure the users feet are on the footrest before powering on the chair
5. Do not stand on the footrest when it is not resting on the ground. Risk of damage to the equipment or falling causing personal injury exists.
6. All soft ground must be avoided (fine sand, mud etc.). Danger of getting stuck and /or tipping over.
7. Do not drive on nails or sharp objects, this can cause punctures or damage the wheels.
8. When the seat height exceeds the safe height of 57cm only operate the wheelchair on level ground. Do not cross obstacles, sidewalk curbs or uneven ground. A danger of tipping exists.
9. Avoid operation in extreme temperatures above +40°C or below - 25°C.
10. Do not place hands or objects where indicated with a yellow triangle or under the footrest. Danger of personal injury and damage to the equipment exists.
11. The wheelchair must not be lifted or supported by the backrest, armrest, transfer mechanism or footrest.

12. If used in a vehicle, it's mandatory to use the supplied headrest as well as a 3-point seat belt fixed in the vehicle. The wheelchair restraint must not be used as a safety belt inside of a vehicle!
13. Improper positioning of the mount of the recline actuator changes the safety limit settings. Please refer to the technical information provided in section 6 (Technical guidelines for proper seating section 6.2)
14. Before folding the armrest, it is essential to check that nothing prevents its movement. A pinch point exists at the hinge of the armrest.
15. Do not use flip down side transfer board if the load is higher than 85 kg.
16. Never store or place objects under the seat or on top of the battery box. Ensure that pets and children never crawl under the seat.
17. If you can't see under the seat it is good practice to turn the wheelchair once on its axis before lowering the seat, to assure you that there is nobody in the danger zone!
18. The free length of thread on the rod for manual seat tilt adjustment should never be more than 7.5 cm (3'') Risk of damage and injury.
19. For the transport make sure that the vehicle is equipped with standardized anchorage points. When traveling, the wheelchair should always be attached to the vehicle to the anchor points. Danger of crushing and of irreversible injury in the event of an accident.
20. When the motors are disengaged the brakes are inactive. Never disengage the motors with an occupant in the wheelchair. There is a danger of rolling, especially on sloped or uneven ground. Always engage the motors when the wheelchair is stopped.
21. Wheelchair trials must be done in the presence of a caregiver, and at reduced speed until the operator is familiar with the function of the wheelchair. When learning to overcome obstacles, a caregiver is recommended. To overcome obstacles of more than 5 cm in height the tilt angle of the seat must be less than 10° angle and the angle of the backrest at 100° or less.
22. To operate up and down slopes of more than 17% and to overcome obstacles of a height greater than 12 cm, a caregiver with the capacity to retain the wheelchair in case of tipping is mandatory.
23. Descending any obstacle must be done at reduced speed, with the seat in the lowest position. Never attempt to descend obstacles with the seat tilted forward.

24. Never attempt to overcome an obstacle more than 5 cm in height without first stopping with the front wheels in contact with the obstacle at a 90° angle. Risk of damaging wheels and the wheelchair.
25. Only use deep cycle gel batteries designed and approved for use in power wheelchairs.
26. The acid gel contained in the batteries is highly corrosive. If batteries are damaged do not touch unless proper eye and hands protection is being used.
27. Do not replace a fuse without informing the dealer and without his authorization. Risk of damage to the electrical system and/or electronics on the wheelchair exist.
28. Do not use a charger other than the one supplied with the wheelchair. The charger may only be operated in open air for cooling, do not cover, or restrict airflow to the charger. Danger of overheating and damage to the equipment exists.
29. When traveling over long distances or with high use monitor the battery charge indicator and make sure you always have enough reserve power for the return journey. If necessary, reduce your travel to avoid drainage of the batteries. Never completely drain the batteries this will greatly reduce the life and charge cycles of your batteries.
30. Ensure that no debris (soil, gravel, wood, etc.) is caught or wedged between the frame and the drive line. There is a risk of jamming the pivot mechanism in the drive line causing an operational malfunction.
31. If an object or dirt is trapped between the wheel puck and the rim of the omnidirectional wheels, remove as soon as possible to avoid damage to the equipment.
32. When transporting in a car, securing the wheelchair is mandatory. Do not attach the wheelchair in a vehicle other than by the anchors points advocated by New Live sarl. Failure to do, can cause serious injuries or death in case of accident!
33. If the wheelchair is used as a passenger seat or driver's seat in a car, it is mandatory to lower the height of the seat to lowest setting and power off the wheelchair before fastening the 3-point seat belts of the car.
34. If the wheelchair is used as a passenger seat or driver's seat in a car, the use of the headrest supplied with the wheelchair is mandatory as well as use of the automotive 3-points seat belt fixed in the vehicle. The wheelchair restraint must not be used instead of a car seat belt.
35. The headrest must be adjusted to the height of the user's ears. Incorrect adjustment of the headrest can cause serious injuries in the event of a collision.

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21. Technical Data

## 1.0 Introduction

We thank you for the confidence that you grant us by opting for this electric wheelchair. This 6 wheel innovative chair was designed to better meet the needs, of any power wheelchair user.

Indoors, the turning radius is only 18.5" this allows you to access more of the smaller tight areas that one encounters on a daily basis.

Hills, wet or snow-covered sidewalks or roads and obstacles like curbs or trails with tree roots can be overcome safely with the grip and optimum 6 wheel traction offered by the Magix6.

The Magix6 will bring you years of reliability and satisfaction with increased independence and mobility.

## 2.0 General Guidelines

**New Live Sarl and Assistability disclaim any liability or warranty for not following the conditions and instructions outlined in this manual.**

### 2.1 Control System

The controller for the wheelchair does not need maintenance. Never open electric or electronic components (controller, actuator, electronic box, etc). If your Magix6 wheelchair is not operating properly, please contact the dealer you purchased the wheelchair from immediately and avoid using the chair until service is performed. Your dealer will be able to repair and clear any faults. Do not use a wheelchair which has a faulty control.

### 2.2 Switching off the control

Turn off the power on the joystick before transferring into or out of the Magix6.

**Caution:**



**Danger of crushing injury! During the transfers the power should be turned off, always turn the power off before entering or exiting the chair**

### 2.3 Use of the wheelchair

The wheelchair is designed for use by a single person. Do not transport passengers or operate the wheelchair in an inappropriate manner (e.g. children) or get on the/the footrests, the rear of the seat, the wheels or the mudguards. Bags or other items must not be hung from the rear of the seat and otherwise must be kept with a sufficient distance to avoid catching in the wheels or other moving parts

Do not attach objects at the rear of the backrest.

When powered on the user's feet must be on footrest.

Changes to the programming can only be done by the dealer. All Magix6 electric wheelchairs are equipped with, at the time of their sale, a standard program which does not represent any danger for the driver. For all program changes, please contact your dealer (see first page for coordinates).

#### Caution:



**Danger of injuries if loose clothing get caught in the wheels or seat adjustment!**



**Do not fasten or hang objects on the rear of the seat back or the arm rests.**



**Danger of injuries, always position feet on the footrest before driving the chair!**



**Do not stand on the footrest if it is not on the ground. Risk of damage with danger of falling, injuries or tipping!**

## 2.4 Operational Environment

- Outdoors the wheelchair must be used only on firm surfaces such as roads and paths. Avoid soft ground (fine sand, mud etc.) Avoid turns on steep slopes. (Danger of tipping!) The maximum slope of 17% must be respected and the maximum weight of the user must not exceed 140 kg.

**Note: The MAGIX6 is not intended to drive on soft or loose ground such as sand and mud.**

- Operating or driving over nails, spikes or sharp objects that can cause punctures or catch and damage the tires of the wheelchair is forbidden.
- When the seat height exceeds the safe height of 57cm, only operate the wheelchair on level ground. Do not attempt to cross obstacles with the seat elevated. Danger of tipping exists.
- The temperatures above than +40°C and lower than -25°C may affect the operation of the wheelchair. These temperatures are allowed in case of storage, during shipping or on short trips. (Do not adjust the seat height, tilt angle or backrest angle when extreme cold temperatures exist.)
- High humidity particularly at night can be damaging to electronic components of the wheelchair do not leave the wheelchair outdoors or exposed to the elements. Condensation may appear when the wheelchair is often exposed to temperature changes. Operator must avoid exposing the wheelchair to extreme humidity (ex. holiday in humid regions). Puddles of water deeper than 8 cm must be avoided.

### Caution:



**Soft ground must be avoided (fine sand, mud etc.). Danger of getting stuck and /or tipping.**



**Avoid nails, spikes and sharp objects. They can cause punctures and damage the tires, risk of immobilisation of the wheelchair.**



**When the seat base exceeds the safe height of 57cm, drive the wheelchair on level ground only and do not cross obstacles or go down a curb. Danger of tipping.**

## 2.5 Electromagnetic Fields

This electric wheelchair has been tested to meet international standards regarding its electromagnetic compatibility. Intense electromagnetic fields which are generated by radiant devices within a certain proximity, (e.g. large transmitting facilities) can lead to operational faults on the Magix6 .

## 2.6 Risk of pinching and shear

There is a risk of pinching or severing of the fingers at the following locations:

- Supports for the armrest and the swing away control mount
- Legrest mechanism
- Electric leg rests and seat elevating mechanisms
- All the mechanisms that are located under the seat base

### Caution:



**Do not place hands to the places marked by this triangle, and never store items under the seat base. Danger of injury with risk of finger severing exist.**



The wheelchair must not be lifted or supported by the backrest, armrest, transfer mechanism or footrest



### **3.0 Warranty Conditions**

The following warranties shall take effect from the date of delivery from the factory:

- Electrical and electronic parts (controller/actuators/motors): 24 months
- Mechanical Parts (defects in material and workmanship): 24 months

This warranty covers replacement of defective parts only. The defective parts will become the property of the manufacturer.

All other claims are excluded.

Warranty claims are processed thru the local Magix6 dealer (see first page for coordinates).

#### **Exclusion of warranty**

The following damages are excluded from the warranty:

- The damages which were not immediately reported,
- Damage caused by abuse, improper use, or inadequate control,
- The damage caused by failure to follow instructions, (e.g. connection to an inadequate charger, shorting the batteries, etc.),
- The damage resulting from any modifications of the product,
- The damage caused by use of non-OEM replacement parts or accessories as well as an improper mounting of accessories.
- Parts subject to wear and are not covered by warranty are lights, tires, brake linings, toothed belts, upholstered surfaces, wires and cables etc.

**Assistability reserves the right to refuse warranty claims if after a detailed audit of the claim it is determined that the fault is due to abuse, misuse or failure of the user to follow the guidance of this manual.**

## **4.0 Delivery/purchase of replacement parts**

The delivery and set up and programming of all components of the Magix6 wheelchair can only be done by an authorized dealer.

The delivery must include the following elements:

- Chair delivered in good order to customer with the seat adjusted to the height of the user.
- A headrest mounted and adjusted to proper height for user.
- A seat belt restraint.
- An obstacle clearance device (OCD).
- A lighting kit.
- A battery charger
- User's manual.

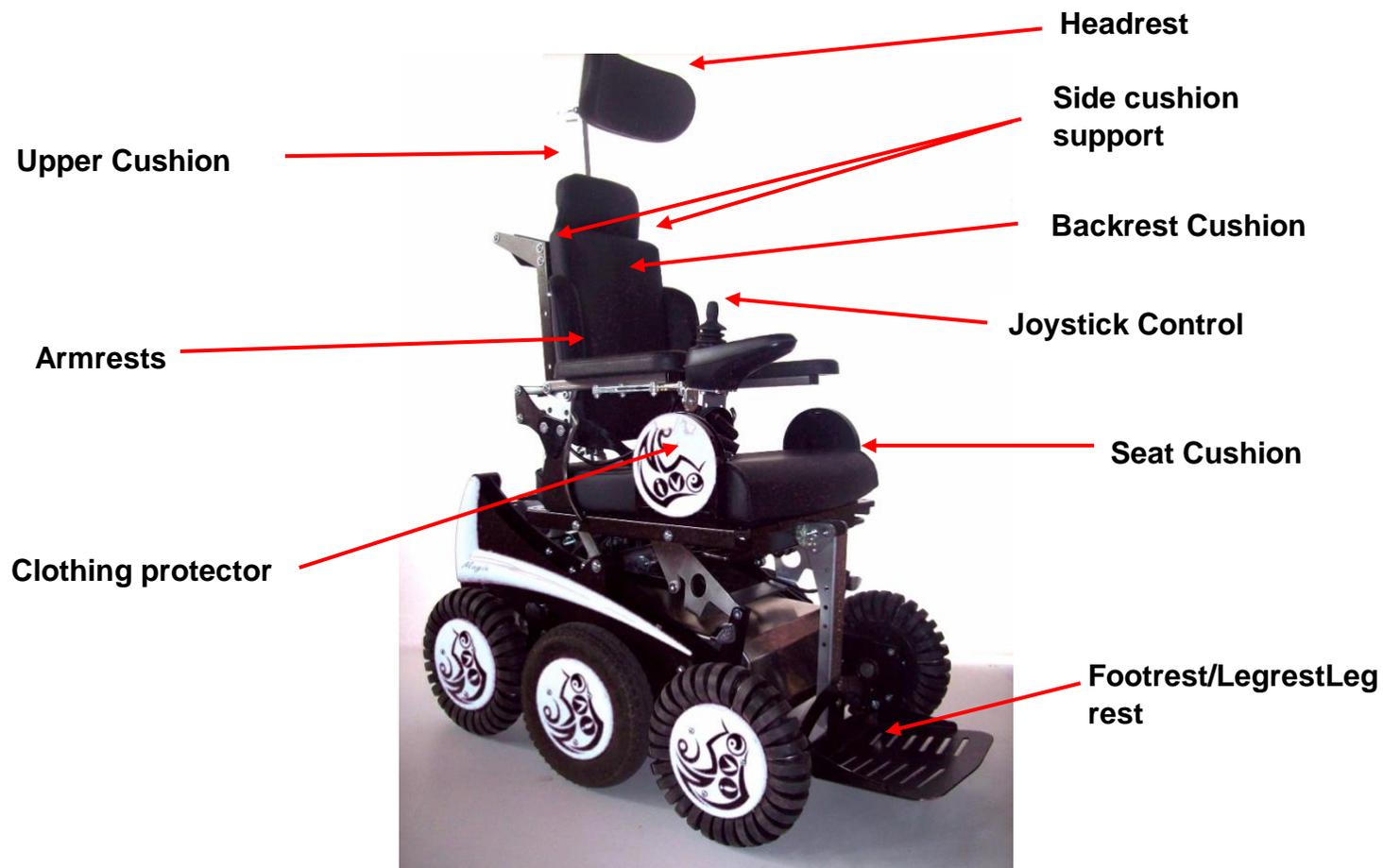
You can order replacement parts from an authorised dealer (see first page for coordinates).

## **5.0 Accessories and special equipment**

For any accessory or special equipment, your dealer is at your disposal for the adequate information (see first page for coordinates).

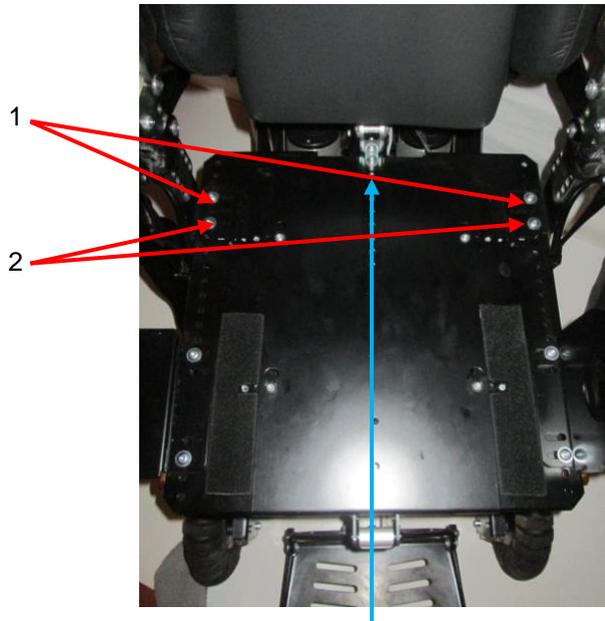
## 6.0 Seat Adjustments

The Magix offers you a multitude of settings so that you can find the ideal seating position.



## 6.1 Depth of the seat

To adjust the seat depth the technician must:

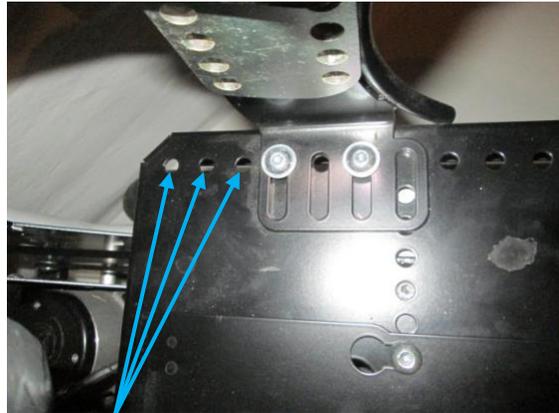


Lower mounting screws of the cylinder or adjustment

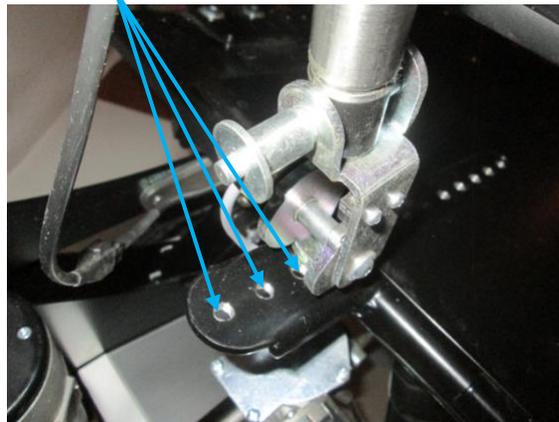
- Remove the seat cushion
- Unscrew the screws 1 and 2 that hold the brackets with armrests
- Remove the 2 lower mounting screws of the recline cylinder or adjustment bar.
- Set the 2 brackets of armrest toward the front or rear to adjust the depth as required.
- Refer to paragraph 6.2 for correct position of the recline support/ actuator.
- Reset the screws, taking care to leave at least 1 hole free between the screws 1 and 2.

**Note: The back of the brackets of the armrest should never exceed the rear of the base plate on the which they are fixed.**

## 6.2 Position of the lower mounting of the cylinder or adjustment bar of the backrest



holes



The attached position of the actuator or the manual adjusting bar of the backrest must be adjusted depending on the depth of the seat. For this you need to ensure that the number of free holes behind the base of the actuator or the manual adjusting bar coincides with the number of free holes on the base plate to the rear of the armrest support.

Example of a correct adjustment 3 and 3 free holes behind the support of the armrest and behind the base of the cylinder.

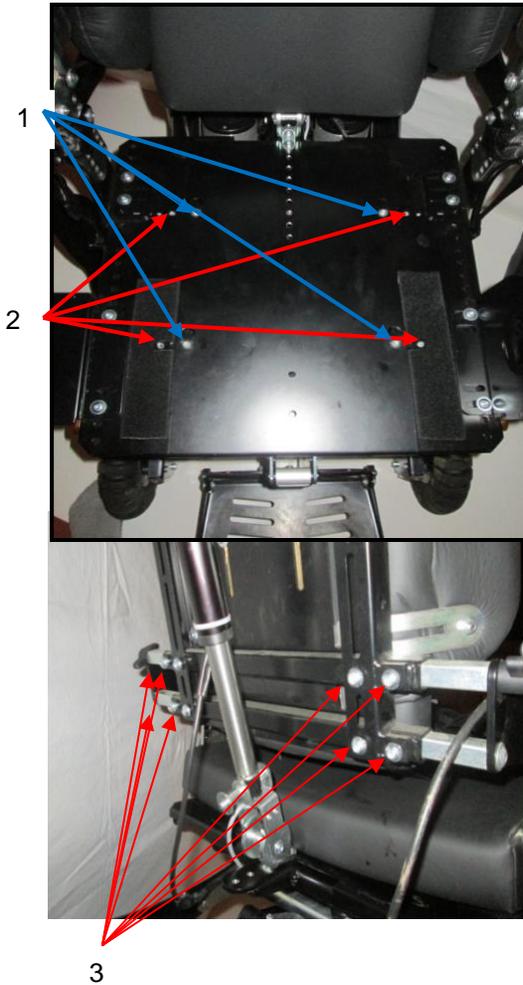
**Caution:**



**tipping!**

**Improper positioning of the recline actuator or support will change the safety settings for degree of recline. Danger of injury and**

### 6.3 Width of the base plate

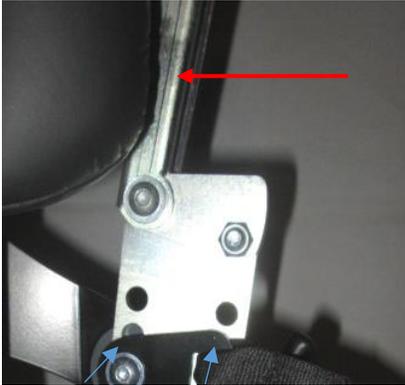


To adjust the width of the base plate you must;

- Remove the seat cushion
- Remove the 4 screws #1
- Slightly loosen the 4-set screw # 2
- Slightly loosen the 8 screws #3 at the rear of the backrest
- Adjust the width in a uniform manner on both sides by maintaining the center of the base plate
- Reinstall the screws of type #1
- Retighten all screws

## 6.4 Armrests

The wheelchair Magix6 is equipped with flip back angle adjustable flipback armrests, adjustable in height, tilt, depth and width.



**Attention** before folding the armrest always check that nothing has impeded its movement. Danger of pinching exists at the hinge of the armrest!

1      2

### Adjusting the height of the armrests:

To adjust the height of the armrests you must:

- Unscrew the screw #1 and remove the seat belt restraint
- Unscrew the screw #2 which is located behind the seat belt restraint
- Remove the armrest support bracket by pulling it toward the inside of the wheelchair
- Reposition the bracket of the armrest on the screws spacers at the desired height
- Refit and tighten the screw #2
- Replace the seat belt restraint with the screw #1 and tighten the screw

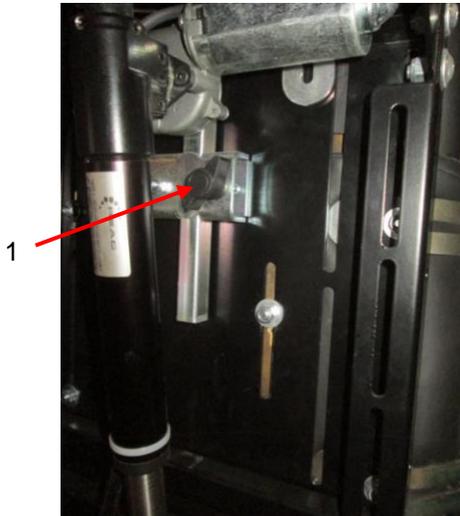


**Attention** before folding the armrest always check that nothing has impeded its movement . Danger of severing at the hinge of the armrest!

## 6.7 Headrest

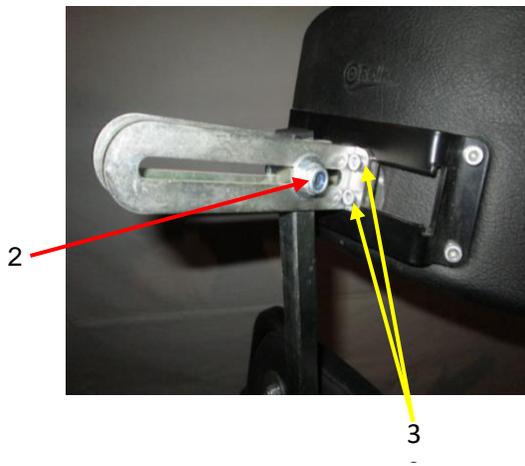


**Note: If the seat is used as a passenger or driver's seat in a car, the use of the headrest supplied with the wheelchair is mandatory. The headrest should be adjusted to the height of the user's ears. In the event of a collision, improper adjustment of the headrest can cause serious and irreversible injury.**



**To adjust the height of the headrest you must;**

- Loosen the thumbscrew #1 located at the rear of the backrest
- Adjust the headrest to the desired height
- Retighten the thumbscrew



**To adjust the depth and the angle of the headrest, you must:**

- Loosen the screw #2
- Adjust the headrest to the depth and to the desired tilt
- Retighten the screw

**To adjust the lateral position of the headrest (optional), you must:**

- Loosen the 4 screws #3
- Slide sideways headrest up to the desired position
- Retighten the screws

**Caution :**



**If the seat is used as a passenger or driver's seat in a car, the use of the headrest supplied with the wheelchair is mandatory.**



**The headrest should be adjusted to the height of the user's ears. In the event of a collision, improper adjustment of the headrest can cause serious and irreversible injury.**

## 6.8 Adjusting the footrest

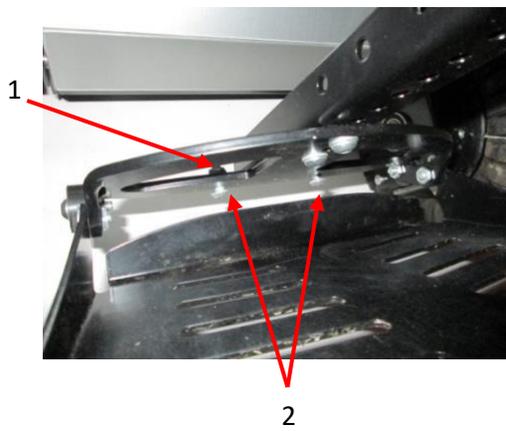
To facilitate the transport and transfers, the Magix6 is equipped with flip back angle adjustable footrest.

To raise the footrest, it is necessary to lift the front of the footrest and pull back toward the top and toward the rear.



### Adjustment of the tilt of the footrest:

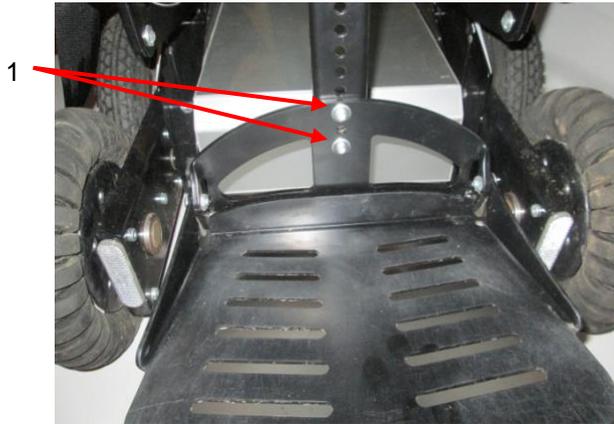
It is possible to change the tilt of the footrest. For this procedure it is necessary to:



- Loosen the jam nuts #1
- Screw or unscrew the screws #2 to obtain the desired tilt
- Retighten the jam nuts #1

### Height adjustment of the footrest:

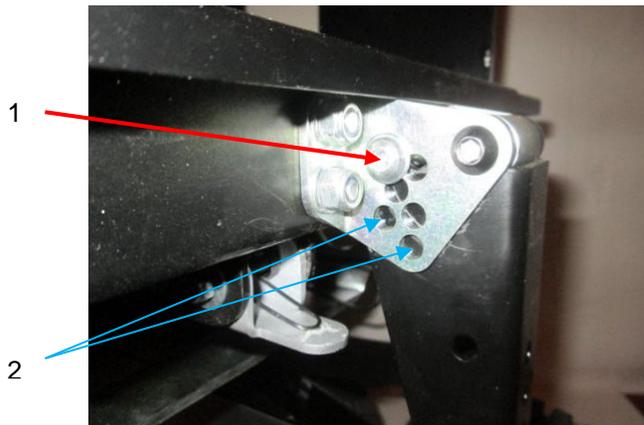
The height of the footrest can be adjusted by step of 2 cm).



To adjust the height of the footrest you must:

- Unscrew the screws #1 (Retain the nuts at the rear of the gallows)
- Place the bracket for the footrest to the desired height
- Retighten the screws #1

### Adjusting the tilt of the legrest:



To change the tilt of the legrest it must:

- Unscrew the nut on the set screw of bute #1 and remove
- Raise the legrest to the desired angle
- Replace the screw #1 in port 2 closer to the desired angle
- Replace the nut on the screw #1 and retighten

## 6.9 Seat Height

The seat height adjustment is done with the help of an electric motor. Please refer to pages 34 or 36 of the owner's manual according to the corresponding command.

### Caution:



**Never place objects in the space occupied by the seat elevator.**



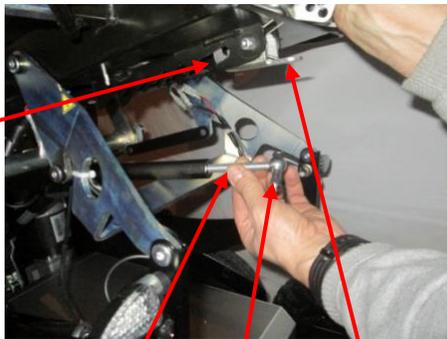
**It is good practice to turn the wheelchair once on its axis before lowering the seat from elevation, to ensure that there is nothing underneath the seat elevator.**

## 6.10 Angle of tilt of the seat cushion

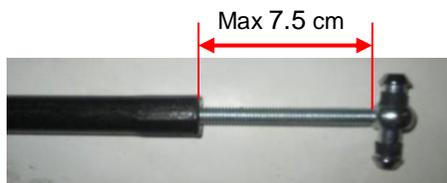
- **Electrical Adjustment**

For the electrical adjustment of the tilt of the seat base, refer to pages 34 or 36 of the owner's manual according to the corresponding command.

- **Manual Adjustment**



3      2      1



**To adjust the tilt angle of the seat it is recommended to make this operation with two persons. For this it is necessary to:**

- 1 - Release the adjusting rod by pushing up the metal tab 1 located at the front of the seat cushion and maintain the seat bottom to the top.
- 2 - Screw the rod 3 toward the rear to reduce the tilt or the Unscrew to increase the tilt angle of the seat.
- 3 - Push on the tab 1 and then refit the pin 2 in its housing 4 and release the tab 1 to lock the axis 2.

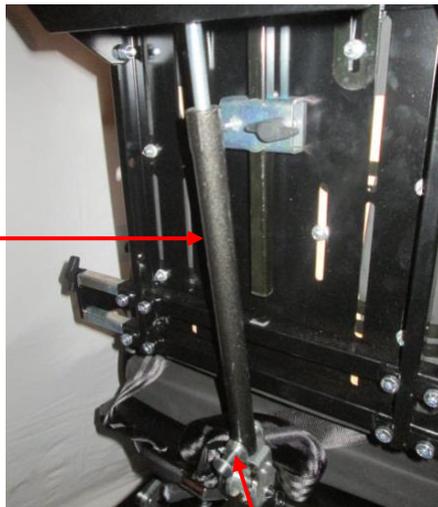
**Note: For safety reasons, the exposed length of the thread showing on the adjusting rod should not be more than 7.5 cm (3")**

## 6.11 Angle of the backrest

- **Electrical Adjustment**

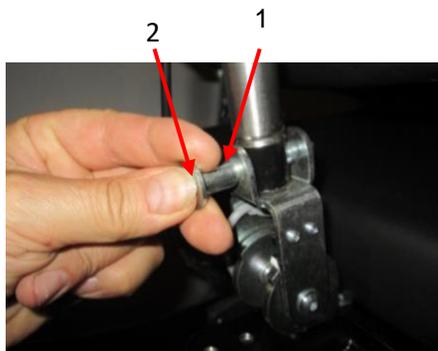
For the electrical adjustment of the tilt of the backrest, refer to pages 32 and 36 of the owner's manual according to the corresponding command.

- **Manual Adjustment**



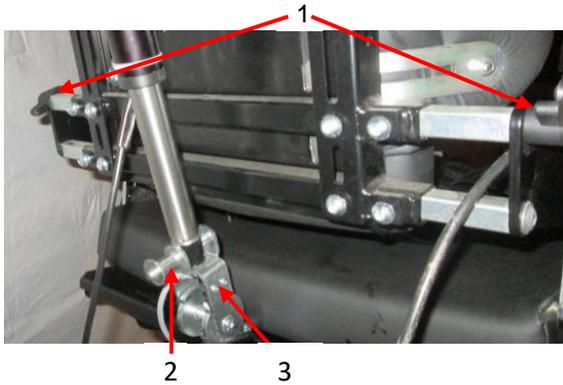
**To adjust the tilt of the backrest you must be:**

- 1 Press the #2- release located at the end of the pin #1 then remove to release the adjusting bar 3.
- 2 Screw toward the top the bar 3 to increase the tilt of the backrest or unscrew downward to decrease the tilt of the backrest.
- 3 Reposition the bar 3 in its holder and replace the pin 1 by pressing the button again 2.



## 6.12 Folding the backrest

For transport in a low vehicle, the Magix6 has the ability to fold its backrest down to the base of the seat.



**To fold the backrest, you must:**

- Unscrew and remove the 2 thumbscrews #1
- Remove the pin #2 (refer to the previous chapter)
- Fold down the backrest on the seat base.

Reverse the instructions to put the seat back in place by lifting the backrest to put the thumbscrew. **Caution: Do not pinch cables if power recline option is in use.**

**Note: The inhibits will engage if the recline mounting bracket #3 is tilted to the rear. To operate the wheelchair with the joystick with the backrest folded down, ensure the recline bracket #3 is in the raised position or rotated toward the front.**



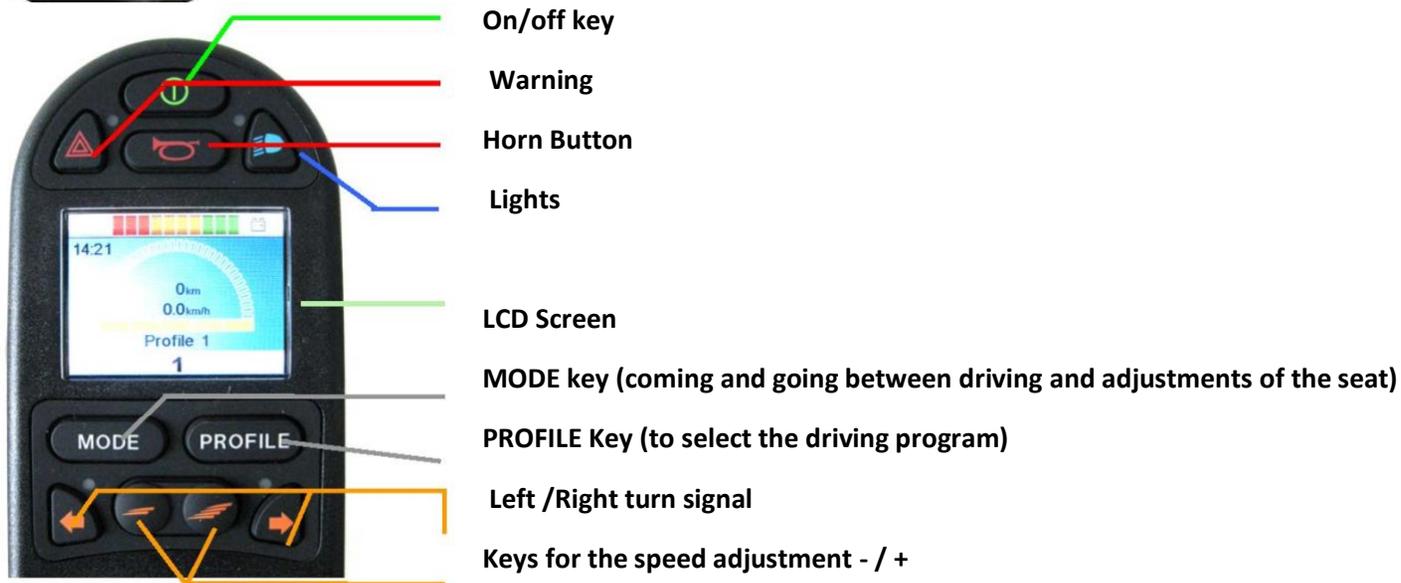
## 7.0 Control R-Net



The control R-Net is provided with a standard joystick. When turned ON it can direct the wheelchair in all directions. The wheelchair always follows the direction which is given by the joystick. If you move the joystick toward the front, the wheelchair will go forward. If it moves to the left, the wheelchair will turn to the left. The same thing to the right and backward.

There are three driving programs which can be selected with the profile key. Each program can be adjusted by the dealer so that it corresponds to the client. These programs can only be preprogrammed by a specialist. If modification are required, please contact your dealer (see first page for coordinates).

In case of an error code it is indicated on the display. Immediately inform the dealer so that necessary measures can be taken. Errors codes are listed in section 20.



**By pressing the keys, lights, turn signal or warning, the desired functions will be ON/OFF**

### **Locking of the control**

The wheelchair has a locking control feature to prevent an unintended use.

#### **To lock the control :**

- 1 Turn off the control by pressing the on/off key until you hear "beep"
- 2 Push the joystick forward until you hear "beep"
- 3 Pull back the joystick until you hear "beep"

#### **To unlock the control :**

- 1 Turn on the control
- 2 Push the joystick forward until you hear "beep"
- 3 Pull back the joystick until you hear "beep"



### Mode Key

Press the MODE key, for control menu of all seating functions.

The first function that is displayed is the adjustment of the seat height (LIFT).



A brief movement of the joystick to the left or right, will open a scroll down menu of different functions of the electric wheelchair

Push joystick forward or backward to select the desired setting.



Press the MODE key to exit the menu and return in driving mode.



### PROFILE key

With PROFILE key, you will select one of the 3 operating profiles. The profiles can be individualized by the dealer with an appropriate software.



By pressing these keys, you have the option in each of the profiles to adjust the speed. Slower with the left key and faster with the right key.





### **Inhibit Function and safety**

When you use the seat elevate or seat recline functions and have adjusted or extended them beyond the point of safe travel, the controller will automatically put the chair into a safety (inhibit) mode showing an orange turtle. This will allow the chair to move at a reduced speed.



If the adjustment made by the user goes beyond what is recognized as dangerous, the controller will flash a red turtle and will not move at all until the positioning of the chair is returned to a safe operational range.

To regain normal use of the chair the operator must lower the height of the seat or reduce the angle of the seat tilt or backrest recline.



### **Charge indicator for the batteries**

The load indicator informs the user of the remaining charge in the batteries. Make sure that the charging indicator does not drop below the 3 red bars, in order to ensure that the wheelchair does not stop unexpectedly and to maximize the life cycle of the batteries.



### **Recharge the batteries**

The connection of the charger is located on the bottom side of the Joystick control. More information on charging the batteries is available in section 14 and 15.

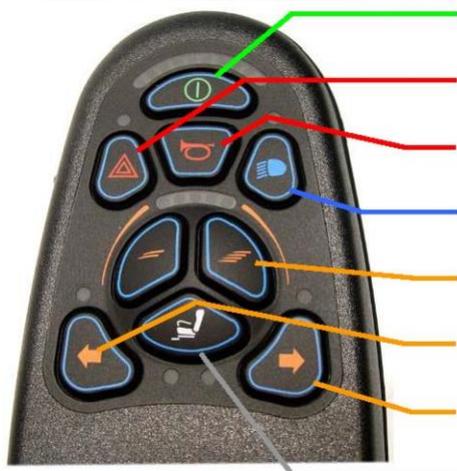
## 8.0 Control VR2



The control VR2 is provided with a standard joystick. If it's turned ON you can drive the wheelchair in all directions. The wheelchair always follows the direction which is given by the joystick. If you move the joystick toward the front, the wheelchair will go forward. If it moves to the left, the wheelchair will turn to the left. The same thing to the right and backward.

The user has a choice of speed profiles. Each driving of profile can be set individually by the reseller. In case of change, it is necessary to contact the reseller (see first page for coordinates).

In case of failure it appears as a error flash code on the display. It informed of where the error is located. This error information should be communicate immediately to your dealer in order to initiate the necessary measures. Errors codes are listed in section 20.



**On/off key**

**Warning**

**Horn Button**

**Lights**

**Speed keys - / +**

**Left/Right turn signal**

**Seat key (electrical functions of the wheelchair)**

**By pressing the keys, lights, turn signal or warning, the desired required functions will be ON/OFF**

## Locking of the control

The wheelchair has a locking feature to prevent an unintended use.

### To lock the controller :

Turn off the control by pressing the on/off key until you hear "beep"

Push the joystick forward until you hear "beep"

Pull back the joystick until you hear "beep"

### To unlock the controller :

Turn on the control

Push the joystick forward until you hear "beep"

Pull back the joystick until you hear "beep"



### Seat Button

Press the seat button to access the seating for functions.

With a brief push of the joystick to the left or right you switch from one function to another.

When the function is selected, push the joystick forward or backward to reach the selected position.



Press the seat button to return in driving mode.



### **Speed keys**

The command has 5 profiles of preset speeds.

Press the speed button left to lower the speed and the right one to increase the speed.



If necessary, each profile can be set individually by your dealer with the appropriate software.



### **Charge indicator for the batteries**

The load indicator informs the user of the remaining charge in the batteries. Make sure that the charging indicator does not drop below the 3 red dots, in order to ensure that the wheelchair does not stop unexpectedly and to maximize the life cycle of the batteries.



### **Recharge the batteries**

The connection of the charger is located on the bottom side of the Joystick control. More information on charging the batteries is available in section 14 and 15.

## **9.0 Transfers**

### **9.1 Lateral Transfer**

1. Place the wheelchair as close as possible to where you want to perform the transfer (chair, bed etc.)
2. Using the elevator function, if available to adjust the seat height.
3. Turn off the control.
4. If necessary, you can flip back the footrest.
5. Raise the armrest
6. Flip the transfer device down. To do this, pull it upwards and then fold down away from the seat.
7. You can transfer by shifting weight on the transfer device (maximum load 85 kg on the transfer device).

### **9.2 Frontal Transfer**

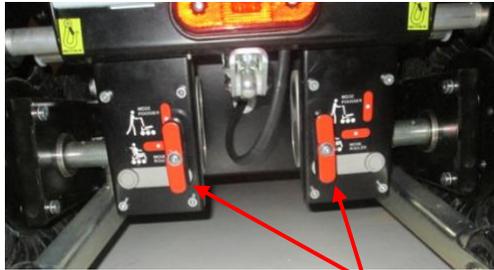
1. Place the wheelchair in front of the seat base to where you want to perform the transfer.
2. Use the elevator function, if available adjust the height of the seat.
3. Turn off the control.
4. If necessary, you can flip back the footrest.
5. You can transfer by taking support on the armrest.

## **10.0 Free wheel mode**

The motors of the wheelchair are equipped with brakes that prevent the wheelchair from rolling without control when the command is in the off position. To push the wheelchair by hand, these brakes must be disengaged.

Note: motors must be disengaged by an attendant and not by the user! This ensures that the motors are disengaged only in the presence of an attendant to secure the wheelchair and prevent it from rolling accidentally.

On the back bottom part of the chair are two red levers to engage and disengage each respective motor.



1

**Disengage the motor :**

1. Turn off the power
2. Rotate the red lever (1) in the vertical position. The motor is disengaged.

**Note: If the release is difficult, lightly rock the MAGIX6 forward or backward to remove the pressure exerted on the mechanism.**



1

**Engage the motor:**

Rotate the red clutch lever (1) in the horizontal position, the motor is engaged.

**Note: For driving, both engines must be engaged.**

**Caution:**



**When the motors are disengaged the brakes are inactive. There is a danger that the wheelchair to move by itself, especially on sloping ground.**

## **11.0 Lighting**

The wheelchair is available with an LED lighting kit for a visibility and optimum security and safety on the road.

## **12.0 Seat and backrest**

The comfort cushion provides good distribution of pressures, is attached by two Velcro strips. The cover can be removed and be washed at 30C.

The covers of the backrest cannot be removed. The surface can be cleaned with soapy water. Do not soak.

## **13.0 Driving the wheelchair**

**Before driving the wheelchair, these instructions must be read carefully.**

Operate first in a familiar place with enough space. The first exercises must be done in the presence of an attendant, and at reduced speed until user is confident in their ability to safely operate the electric wheelchair. While learning how to cross barriers and climb curbs an attendant must be present. The attendant must have the ability to upright the Magix6 if it is tipped over.

The wheelchair is rated for grades up to 17 %. It also remains efficient, secure and stable in slope. A short up and down more than 17% may be possible but at very low speed and only in the presence of an attendant with the capacity to upright the wheelchair in case of tipping (chair 172 kg + weight of the user)!

Obstacles up to 5 cm in height must be crossed at reduced speed and can be crossed in all directions.

The obstacles more than 5 cm in height must be crossed at a right angle. To overcome the obstacles of more than 5 cm in height, the adjustment of the angle of tilt of the seat must be less than 10 degrees. The angle of the backrest must not exceed 100 degrees relative to the seat base. The wheelchair can overcome obstacles up to 14.5 cm in height.

Depending on the weight, size and capabilities of the user, of the greater heights than 12 cm can be crossed. However greater heights than 12 cm must be crossed with the presence of an attendant having the ability to retain the chair if it is tipped (chair 172 kg + weight of the user)!

The curb cuts and sidewalks cut outs must be approached at very low speed, with the seat in the low position. It is advisable to tilt the seat base toward the rear on descent. Never descend from a barrier with the seat tilted forward!

## Caution:



The first exercises must be done in the presence of an attendant, and at reduced speed until the user is confident with the electric wheelchair. For the learning of the crossing of barriers the presence of an attendant having the capacity to retain the wheelchair in case of tipping, is mandatory (chair 172 Kg + weight of the user)!



To overcome obstacles of more than 5 cm in height, the adjustment of the angle of tilt angle of the seat must be less than 10 degrees and the angle of the backrest 100 degrees relative to the base plate.



Up and Down slopes more than 17% and to overcome obstacles of a greater heights than 12 cm, the presence of attendant with the physical ability to retain the wheelchair in case of tipping is mandatory (chair 172 kg + weight of the user).



Descending from any obstacle must be done at reduced speed, with the seat in the low position. Never descend with the seat tilted forward.

## Overcome obstacles:

An obstacle more than 5 cm can be passed through or over at reduced speed only after stopping and positioning the wheels to safely ascend

### To cross an obstacle more than 5 cm high:

1. Make sure the footrest is high enough, otherwise raise the seat so that the footrest clears the obstacle.
2. Position the wheelchair perpendicular to the obstacle at 90 degrees and touch the obstacle with both front wheels.

3. Stop.
4. Adjust the tilt of the seat below 10 degrees and raise the backrest of no more than 100 degrees relative to the seat base.
5. Accelerate to maximum until the rear wheels are over the obstacle.
6. Maintain acceleration until the rear wheels are over the obstacle.

**Important: Do not stop when crossing obstacle.**

**Note: If you are unable to cross the obstacle and the wheelchair is stuck in the middle of the crossing, you must get off the obstacle in reverse and look for another alternative.**

**Descent from an obstacle more than 5 cm:**

1. Position the wheelchair perpendicular to the obstacle and stop as close as possible to the edge.
2. Adjust the seat height to the lowest position.
3. Verify that the seat does not tilt forward, if necessary, tilt the seat to the back.
4. Descend the obstacle at minimum speed stop and start to slowly crawl down in a straight line to maintain control.

**Caution:**



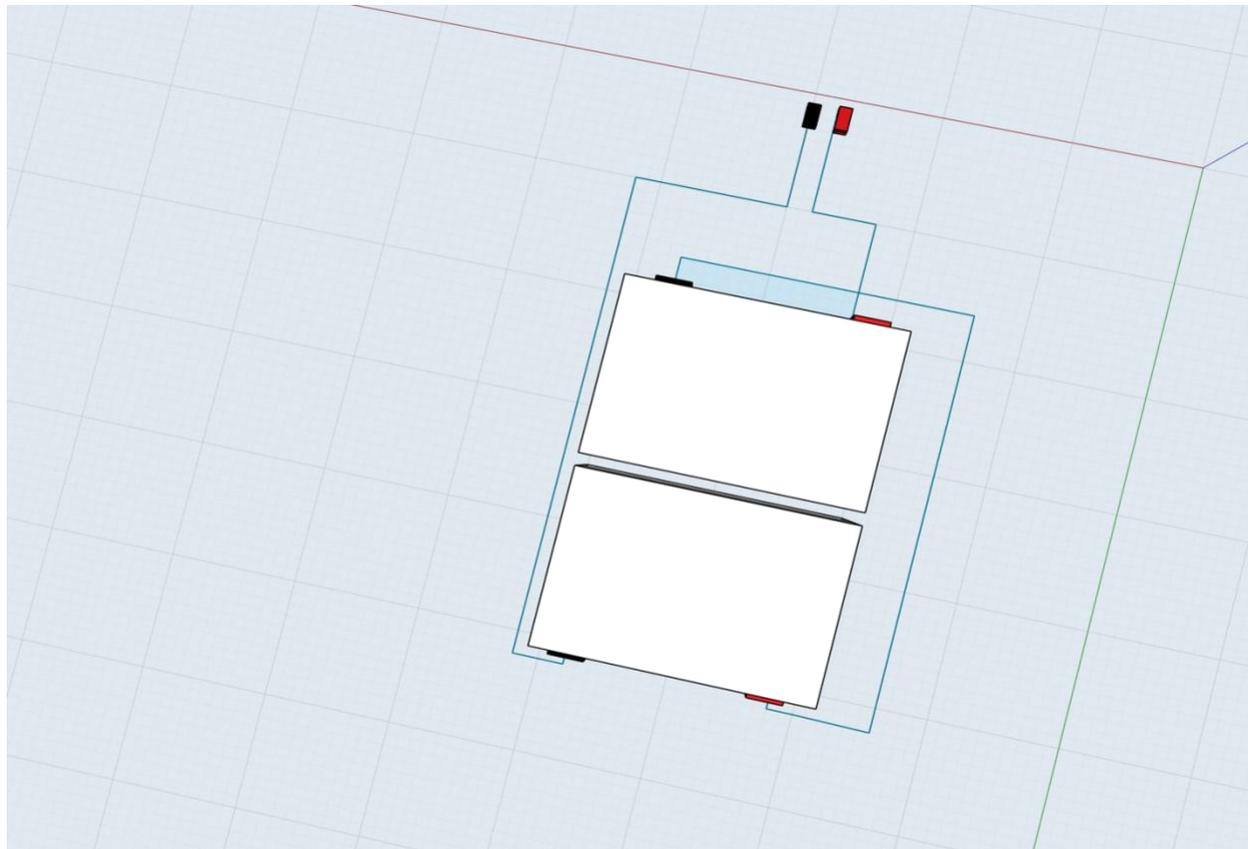
**Never cross an obstacle more than 5 cm in height without stopping and having made a contact with the obstacle. Always wear the seat belt restraint when traversing obstacles.**

## **14.0 Batteries and fuse**

### **14.1 Batteries**

The wheelchair is equipped with two group 24, 12-volt batteries. Only gel GEL type batteries are permitted. The batteries do not require maintenance. To replace the batteries, you must (due to the weight of the battery it is recommended to perform this operation with another person):

1. Unlock the seat by pushing up the metal tab located on the front of the seat base (see section 6.10).
2. Tilt the seat backwards and lock by placing the lock pin of the bar of the seat tilt mechanism in one of the three notches located under the seat plate. Caution do not use the (OCD) once the tilt actuator or adjustable bar have been unsecured.
3. Unscrew the two butterfly screws located on the either side of the battery cover and remove the cover toward the front.
4. Lift the red and black protective caps terminals located at the front of the first battery and unscrew the screws.
5. Move the cable to the side and remove the first battery by pulling it with the strap that surrounds it. Slide the second battery forward a little and stand the battery up so the terminals face up.
6. Lift the red and black protective caps terminals unscrew the screws.
7. Remove the second battery by using handle on the top of the battery.
8. Remove the strap from the old battery and place it on the new battery.
9. Reposition the wheelchair with the new batteries with opposite direction. See wiring diagram below. (Attention, take care to replace the insulating red and black covers on the battery terminals).



**Note: For travel by plane the airline must be advised in advance of the transport of the wheelchair.**

**Note: To save batteries disconnect the main fuse under the battery cover when the wheelchair is not being used for long periods of time. At the latest after three months a full charge is necessary to avoid damage to batteries.**

**Note: Only use GEL type dealer approved sealed lead acids (SLA) batteries**

## 14.2 Batteries recycling

Bring old batteries to your dealer or a recycler. Old batteries should be recycled following the regulations in place in your country.

### Caution:



**Damaged batteries. The gel contained in the batteries contains acid and is highly corrosive!**

**Hands and eyes protection must be used when replacing damaged batteries.**

## 14.3 Main Fuse

The wheelchair is equipped with a main fuse calibrated to limit electrical damage to your Magix6. This fuse is placed in the front of the batteries compartment and can be replaced in case of overheating or current overload by an authorized dealer only.

**Note: Any electrical problem must be reported to your dealer. In case of fuse cut out, please contact your dealer to discuss the circumstances and arrange for service. Do not attempt to service any electrical component of the Magix6 yourself. Otherwise all electric/electronic damage can be excluded from the warranty.**

## 15.0 Charging of the wheelchair

### 15.1 Charger

A 24v charger is included with your purchase. Make sure the joystick power is turned off before charging. When charging the wheelchair be sure to connect the charger to the wheelchair before connecting the charger to the power outlet.

The connection is located on the underside of the Joystick control:



Once the batteries are fully charged unplug charger from wheelchair and power outlet. An orange LED indicates the level of charge of the batteries. A green LED indicates that the batteries are charged.

For maximum benefit of the batteries, it is recommended to recharge the batteries over night after every use. The charge will stop automatically when the batteries are full.

In case of high discharge (more than 3 red leds) it is essential to connect the charger immediately after use of the wheelchair. A prolonged discharge of batteries will cause their premature deterioration.

If the batteries are fully discharged, the charge time will not exceed twelve hours. Never interrupt a charge before the full charge of the batteries is completed and the indicator light on the charger shows 100%/ Full.

**Note:** It is necessary to recharge the batteries immediately when they are discharged and never interrupt a charge before the charger indicates that the batteries are 100% charged. Partial charges will result in premature deterioration of the batteries.

**Caution:**



If a charging problem has manifested due to old batteries, please replace them immediately to avoid a failure of the wheelchair.



It is prohibited to use a charger other than the one supplied with the wheelchair. Any damage caused by using another charger would not be covered by your warranty. Please obtain the chargers exclusively from your dealer (see first page for coordinates).



The charger while in use requires free air movement around the cooling fins. The charger must not be covered, or placed in a box or near a source of heat. Danger of overheating and fire.

### **15.2 Distance per full charge of the MAGIX6**

The distance the wheelchair can travel with a full charge strongly depends on the topography. On flat ground a distance of approximately 28 to 35 km. On steep terrain approximately 8-15km. It is recommended to have several small breaks when using the MAGIX6 on steep grade to avoid the motors overheating. Pause every 10 – 15 minutes so that the motors can cool down.

### **16.0 Cleaning**

Clean the normal dirt with a damp cloth and dry with a dry cloth

For the tenacious dirt use mild diluted dishsoap. Never use products for furniture, solvent or a cleaning product containing alcohol!

**Note:** Before and after use check that the wheels are not filled with dirt, you must always ensure that no dirt (soil, gravel, wood, etc.) remains lodged in the wheels or between the frame of the wheelchair and the drive line.

**Caution:**



It is forbidden to clean the wheelchair with a high pressure device or under any running water. This could void your warranty.

## 17.0 Maintenance

The wheelchair does not require special maintenance from the user. To ensure an ideal operation the wheelchair is to be taken back to the dealer approximately once a year or every 1500km whichever comes first.

Please be attentive to the following points:

- Keep the wheelchair clean
- Store the wheelchair indoors only
- Monitor the cable connections
- Monitor the joystick boot
- Monitor the charging of the batteries
- Report any failure of electrical functions or the control to your dealer

### 17.1 Tires

The wheelchair is equipped with 2 standard tires and 4 wheels omnidirectional.

For the tires, it is necessary to check once a month the air pressure which should be between 3 and 3.3 bar. The inflation is through a valve like a regular tire and can be done at the gas station. Tire pressure will affect performance and distance. When the tire is too old it may disintegrate. If it's the case you must contact the dealer to order new tires.

The omnidirectional wheels are equipped with 30 solid castors wheel pucks. For optimum mobility of the wheelchair, the wheels must always be as clean as possible. If an object (gravel, piece of wood, etc.) or dirt is trapped between wheels, remove as soon as possible. Objects or dirt trapped can cause a breakage and immobilise the wheelchair.

#### Caution:



**If an object (gravel, piece of wood, etc) or the dirt is trapped between wheels, remove as soon as possible. Objects or dirt trapped can cause a breakage and immobilise the wheelchair.**

## 18.0 Transport Magix6 in a vehical

The Magix6 is approved for vehical transport in accordance with the ISO standard 7176-19, ISO 10542-1

Information relating to the ISO testing of the Magix6 is available if requested in writing. You will also find information on the transportation of persons in their wheelchair on board a vehicle, information on the fastening systems used during the crash tests, as well as diagrams of the anchor points on the seat. Anchorage devices (hooks, straps, quick coupler etc.) of a fastening system wheelchair must be installed on the anchorage points indicated on the seat.

The Magix6 has been tested in accordance with ISO 7176-19 and ISO 10542-1, using a anthropomorphic dummy (75 kg Hybrid 2), vehicle moving toward the front, with a frontal impact, and a fastening system of the wheelchair (system to 4 anchor points and a securement system rapid DAHL "Docking station" available in Europe only), as well as a restraint system to 3 points for the occupant (lap and shoulder conform to ISO 10542). During the tests, the product has not been changed and does not have spare parts, or accessories.

The results obtained following the tests carried out show that our product is resistant to impacts in accordance with the ISO standard 7176-19. And therefore, it can serve as a seat on board a vehicle

The Magix6 can be transported with the operator seated in the wheelchair, if the vehicle is equipped with a 4-point wheelchair restraint and the occupant complies with the requirements of standard ISO 10542. In order to determine if the system that you are using meets these requirements, please contact the vehical manufacturer of the fastening system for the wheelchair and occupant restraint.

**We recommend that if possible, to transfer the wheelchair user to a seat in the vehicle and store the wheelchair in the luggage compartment.** The seat of the vehicle offers the highest level of security because it is anchored to the chassis and provided for this purpose.

### Transport

If the wheelchair is used as a passenger seat or driver's seat in a car, the seat must be lowered to minimum seat height and turn off the control of the wheelchair, before fastening the 3 point seat belt, mandatory in a car.

If the wheelchair is used as a passenger seat or driver's seat in a car, the headrest supplied with the wheelchair is mandatory as well as a 3 point seat belt fixed in the vehicle. The safety belt on the Magix6 is not a replacement for the vehicals 3 point seatbelt and must not be used for traveling.



**For all transportation and travel in a car, fixing of the wheelchair is mandatory. Attach the wheelchair in a vehicle by the points of ties or station of stowage advocated by New Live. Danger of tearing, that can cause serious injury or death in case of accident!**



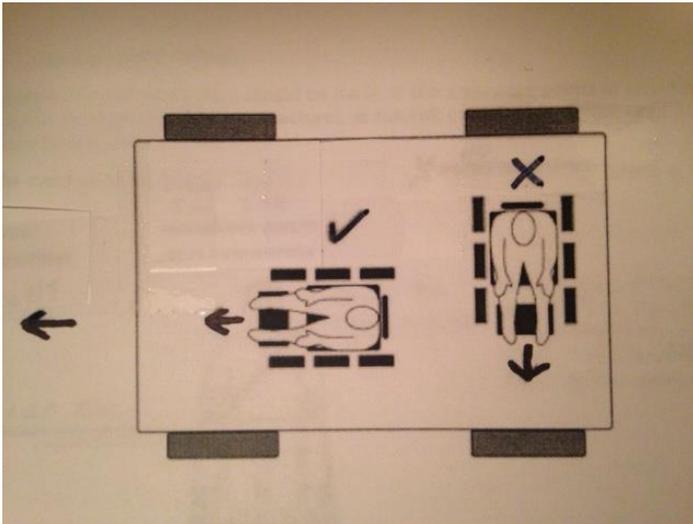
**If the wheelchair is used as a passenger seat or driver's seat in a car, it must be necessarily lower the seat height at the minimum and turn off the control of the wheelchair before fastening the 3 point seat belt, mandatory in a car.**



**If wheelchair is used as a passenger seat or driver's seat in a car, the use of the headrest supplied with the wheelchair is mandatory as well as a 3 point seat belt fixed in the vehicle. The belt of Wheelchair restraint must not be used for traveling!**



**The headrest should be adjusted to the height of the user's ears. In the event of a collision, a bad adjustment of the head support can cause serious injury. (See 6.7)**



**If the person must be transported on board the vehicle in the wheelchair it is appropriate to follow the following recommendations:**

If the person is sitting in the wheelchair, the wheelchair must face forward and must be secured by using a system consistent with the requirements of the ISO 10,542 or SAE J2249. The attachment system and the restraint system must be installed in accordance with the instructions issued by their manufacturer.

**The test standard conforms to ISO 7176-19 provides only for the transport of wheelchair positioned in the forward direction.**

**If possible, it is preferable to transfer the user to a seat in the vehicle and store the wheelchair in the luggage compartment.**



No modification or substitution should be made at the anchorage points or structural components of the seat without the opinion of the manufacturer, at the risk of making the chair unfit for transport aboard a vehicle and voiding the manufacturer's warranty. In the event of an accident or impact, an inspection by your reseller is mandatory before it's re-use.

The wheelchair user is required to use the lap belt and the chest belt. This reduces the risk of impact between the components of the vehicle and the head and/or chest of the user. The chest belt should not go on the neck. The lap belt should go just above the iliac bone.



**No modification or substitution must be made to the wheelchair without having the approval of the manufacturer.**



**In the event of an accident or impact, an inspection by your reseller is mandatory before it's re-use.**

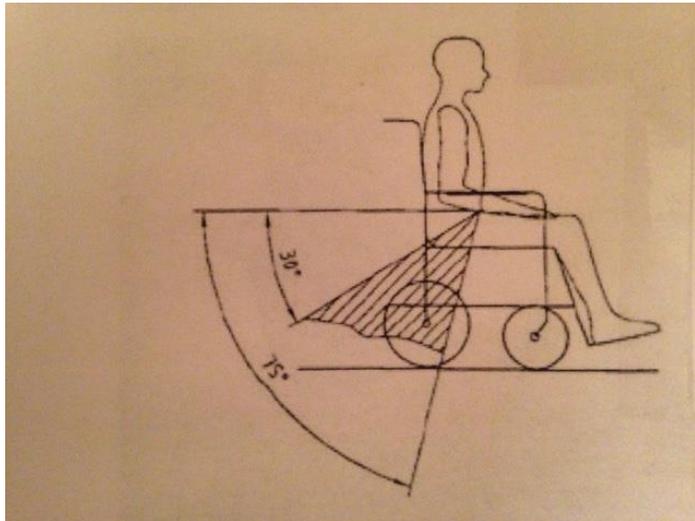


**The occupant of the wheelchair is required to use the lap belt and the shoulder belt. The chest belt should not go over the neck and the lap belt should go just above the iliac bone.**



**The 4-point harness on the backrest, are not suitable for transport**

The fastening systems and restraint of the occupant must sit on the lower front side of the body, so that the angle of the lap belt would be in the range between 30° and 75° relative to the horizontal.



A sharper angle for the seat belt is desirable, close to 75° without ever exceed this value.

Always put the seat belt below the armrests and as close as possible to the body.

The chest belt should go over the shoulder and down diagonally across the body.

The chest belt and the lap belt must be tight, without disturbing the user. The restraint belt strap must not be twisted during use.

**The restraint belt must never be above the armrests of the chair.**

**The seat belts must be adjusted firmly to the user. The chest belt should go over the shoulder and not over the neck.**

**Note:**

The 3 points belt in a vehicle must be set under the armrests and get around the front armrests brackets.

See next page for the correct position of the 3 points seat belt.



## Summary of standards

### 1. IN 12184:2009 Standards for wheelchairs

Since March 2010, the revision of the standard EN 12184:2009 wheelchairs entered into force. This standard stipulates that the manufacturer of a wheelchair may not allow for the transportation of his wheelchair in a vehicle only if the wheelchair has successfully passed the crash test in accordance with ISO 7176-19.

### 2. ISO 7176-19 Standards for crash tests

The crash test for wheelchairs incorporates the principles of collision test of already applied in the automotive industry. The wheelchairs are subject to collision tests at a speed of 48 km/h and a deceleration of impact of 20 g. the anthropomorphic dummy, maximum weight of 75 kg (54 kg for children). Until this day, only frontal impacts were simulated for the wheelchairs.

### 3. ISO 10542-2 Wheelchairs Fastening system and occupant restraint systems

There are several versions for the systems that attaches to wheelchairs and occupant restraint, conform to the ISO standard 10,542. The seat is secured with straps, hooks, carabiners, quick couplers and other anchoring devices. The seat attachment system and occupant restraint systems are also subject to crash tests. To do this, a chair said "substitution" is used. With this system, particular attention is given to the weight to retain (weight of seat + weight of the user). Ensure that the attachment system for the wheelchair is dimensioned for this weight.

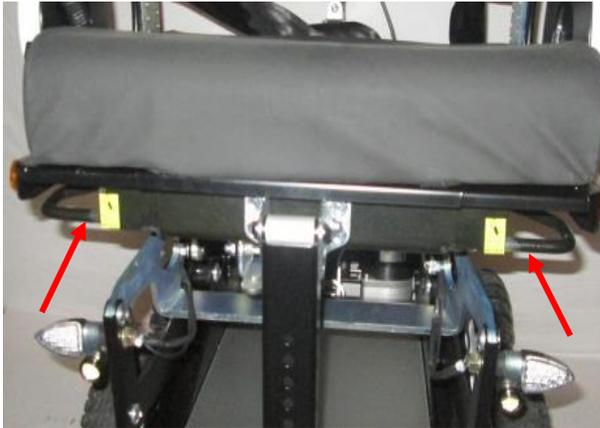
(Empty Weight of the Magix is 172Kg with batteries)

This section provides information on the anchor points for the wheelchair Magix Magix6 approved in accordance with the ISO standard 7176-19.



To be transported in a car, the wheelchair is equipped with 4 anchor points conform to the Standard ISO 7176-19 indicated by the yellow hook. (At the front under the ends of the base plate, at the rear under the turn signal). These attachment points are used to lock the wheelchair safely in the event of an accident.

**Front:**



**Rear:**



**Note:** The user must ensure that the vehicle used for the transport has all the necessary requirements to safely transport the Magix6

## DAHL Docking station (Quick Attachment)



The wheelchair can also be equipped with the station of stowage fast DAHL allowing its blocking without the assistance of a third person in many vehicles tested. Your dealer is at your disposal for the information adequate (see first page for coordinates).



**Find out if the vehicle has been tested for this fixation.**

### Rail:

The double ramps are not recommended for loading the Magix .wheelchair Magix6 . However in case of use of these double ramps , it is necessary to ensure that they are sufficiently wide enough and close, so that they are located under the casters anti rocker and that these casters can take support on the ramps. When using ramps there is a danger of tipping backwards if the wheels cannot take support on the ramps.

**19.0 Recycling** The wheelchair will be picked up by the local vendor and recycled in a professional manner.

## 20.0 Trouble shooting

Each problem has its origin. The table below will help the user/caregiver to analyze and possibly to be rectify the problem before contacting the dealer:

### 20.1 Error codes

Problem	Description	Solution and/or cause
	Control cannot be on	<ol style="list-style-type: none"> <li>1 The fuse is disconnected</li> <li>2 Discharged batteries</li> <li>3 Defect cable or improper connection</li> </ol>
Wheelchair not working	The wheelchair control is turned on, but not working	<ol style="list-style-type: none"> <li>1. Charger is connected</li> <li>2. Motors are in free mode wheels(see10.0)</li> <li>3. Control is in mode anti-start</li> <li>4. The seat adjustment is preselected (see 7,8)</li> <li>5. The lift is in the high position and/or the seat or the backrest are too tilted toward relative to the height. Down little bit the lift and/or reduce the tilt on the seat or the backrest forward</li> <li>6. The backrest is folded on the seat base and the actuator attachment of the cylinder is tilted rearwardly. Switches the lower attachment backrest cylinder forward (see 6.12)</li> </ol>
	The wheelchair doesn't follow the joystick direction.	<ol style="list-style-type: none"> <li>1. Stop using and call the vendor</li> </ol>
Drive speed is slow	The wheelchair is moving but very slowly, at reduced speed	The seat height is adjusted too high. Lower the seat or the seat or backrest angle is too steep. Reduce the tilt of the seat or backrest.

## 20.2 Error table for control R-NET

Error Code	Translation	Solution and/or cause
Joystick Error	Error of the joystick	Do not move the joystick during ignition
Low Battery	Discharged Battery	Check batteries and cables / eventually replace the batteries
High Battery	Battery too high	Let get the batteries a rest
M1 Brake Error	Engine 1 defective brake	Check cable connections/ engine off
M2 Brake Error	Engine 2 defective brake	Check cable connections / engine off
M1 Motor Error	Engine 1 defective	Check cable connections / engine off
M2 Motor Error	Engine 2 defective	Check cable connections / engine off
Inhibit Active	Active Blocking	Choose other seat adjustments to resolve the blockage / control of the installation
Jstick Cal Error	Joystick calibration error	Repeat the calibration of the joystick / engine off
Latched Timeout	Reset	Delete the info with a new startup
Left Lamp Short	Short-circuit left light	Check the cable connections
Right Lamp Short	Short-circuit right light	Check the cable connections
L Ind Lamp Short	Short-circuit left turn	Check the cable connections
R Ind Lamp Short	Short circuit flashing right	Check the cable connections
Over-current	Over Current	Check the cable connections to cylinders
Overtemp. (Acts)	Overheating (movement)	Let cool the ISM / check the installation of the cylinders, excessive power consumption
Overtemp. (Lamps)	Overheating (lighting)	Let cool the ISM / check the lighting installation, excessive power consumption

Memory Error	Memory Error	Restart until the modules will disconnect and the error disappear
PM Memory Error	Error of electronic memory	Reprogram the electronic
Bad Cable	Error connecting cables	Check the cable connections
Bad Settings	Incorrect programming	Look for errors in the PC programming
Module Error	The module error	Check cable connections / engine off
System Error	System Error	Restart until the modules will disconnect and the error disappear
SID Detached	SID disconnected	Check cable connections and SID
User Switch Detached	Switch disconnected suppl.	Check cables connections and switch suppl.
Gone to Sleep	Standby Mode	Restart

## 20.3 Error table for VR -2

Number of diodes flashing on the load indicator	Cause	Solution
1	Batteries discharged or bad connection	Check batteries and cables / eventually replace the batteries
2	Error left motor connector	Check the connectors
3	Short-circuit left motor	Check the connectors
4	Error right motor connector	Check the connectors
5	Short-circuit right motor	Check the connectors
6	2 Lock active	Choose other settings of the seat to unlock / check the installation
7	Joystick error	Check cable connections and center the joystick / restart
8	Internal error in the command	Restart until the modules will disconnect and the error will disappear
9	Brake Error left and/or right	Check cables and brakes
10	Batteries Charge too high	Let the batteries rest
7 And speed diodes	Communication Error	Check the cable connections
0 AND 2 Cylinders diodes	Short circuit actuators	Check cable connections to the actuators
0	Current Limit Exceeded	The electronics has been overloaded, restart
0	Temperature Limit Exceeded	Let cool the electronics, restart

## 20.4 Error codes charger

Errors	Cause	Solution
Only the orange diode is on	The charger is not connected to the batteries	Check connections
The red led flashes	Batteries connected incorrectly (check the polarity)	Connect the batteries in the correct order
The red LED remains on	Voltage too low, defective batteries	Replace the batteries

## 21.0 Technical Data

The Magix complies with the following standards:

- Requirements and test methods for static resistance, the resistance to shocks and the resistance to fatigue following 7176-8.
- Power Systems and wheelchairs electric control - Requirements and test methods according to ISO 7176-14.
- Climate test in accordance with ISO 7176-9.
- Requirements for resistance to ignition of padded parts in accordance with ISO 7176-16.

<b>Model / designation</b>	<b>MAGIX6</b>
Class of device:	1
Distance:	Approx. 30 - 35 km on flat ground
Speed:	6 Km/h / 10 km/h
Incline:	17 % On hard ground
Weight:	Approx. 172 Kg (depending on equipment)
<b>Dimensions:</b>	
Total length without legrest	92 CM (36'')
Total length with legrest	107-130 CM (42''-51'')

Total width	60 CM (23'')
Total height minimum with backrest	93 CM (36 5/8'')
Minimum height backrest folded	66 CM (26'')
<b>Seating Dimensions</b>	
Height of the seat base	43 To 78 CM (without cushion) ( 17''-30 ¾'')
Seat width between armrests	24 To 55 CM (9 ½''-21 ¾ '' )
Seat depth	28 To 50 CM by 2 steps (11''-19 ¾'')
Seat Angle tilt	between -6° and +32°
Backrest Tilt	between 87° and 145°
Armrests Height	22.5 To 33 CM (from the base plate) ( 8 7/8''-13'')
Backrest Height	50 TO 54CM +12 CM with option (from the base plate) (11''-21 ¼'')
Turning Radius with footrest	55 CM (21 ¾'')
Ground Clearance	8.5 CM (3 3/8'')
<b>Central Wheels</b>	Tires 2.5 -6, pressure between 3 and 3.5 Bar
<b>Front and Rear Wheels</b>	Omni-directional, diameter 28 cm polyurethane
<b>Batteries, operating temperatures</b>	2 X 12 V DC 80 Ah/ 20h, AGM type without maintenance, -15 C to + 40 C
Headlights and Turn Signals	LED 12 V
<b>Drive Motors</b>	<b>AMT Schmid GmbH &amp; Co. KG</b> 24 VDC with electromagnetic brake 6 Km/h = 300 Watt 3000 rpm 23.8 /1

	10 Km/h = 350 Watt 4800 rpm 23.8 /1
<b>Brakes</b>	Electromagnetic
<b>Control Element</b>	<b>PG Drives Technology Ltd</b> VR2 90A or R-Net 120A