MASHA

USER MANUAL

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1. INTRODUCTION

Our product is designed to meet the requirements of comfortably transporting disabled or elderly people up and down stairs and at the same time easily integrate into the existing environment.

The movement rails are made of an upper stainless steel tube and a lower stainless steel threaded round shaft, which also acts as a handrail. The necessary fasteners are fixed to an existing wall or pillar.

The emergency stop button ensures that the lift remains stationary in the event of mechanical or electrical failure.

These operating instructions have been prepared to assist you in the daily use of the lift. Read the contents thoroughly and familiarize yourself with all the features this product offers and is currently available to you.

Please comply with both national and international health and safety regulations to ensure the safety of yourself and other users at the place of use of this product.

Please remember:

This section of the user manual is intended for persons responsible for the use of the lift.

ATTENTION!

The Masha platform stair lift is manufactured in accordance with international safety regulations.

However, operating errors and isuse may result in serious injury to the user and/or third parties and damage to the lift, its surroundings and the passenger's property!

KEY SYMBOLS:

The following symbols are used throughout this manual.

This symbol indicates a step which, if the instructions in this manual are not followed, will result in a hazardous situation where injury or property damage is imminent.

This symbol indicates a step that, if the instructions in this manual are not followed, will result in a hazardous situation in which the possibility of injury or property damage increases.

This symbol indicates an operational step for which additional references or explanations are included in this manual.

2. INTRODUCTION OF MASHA UNIT

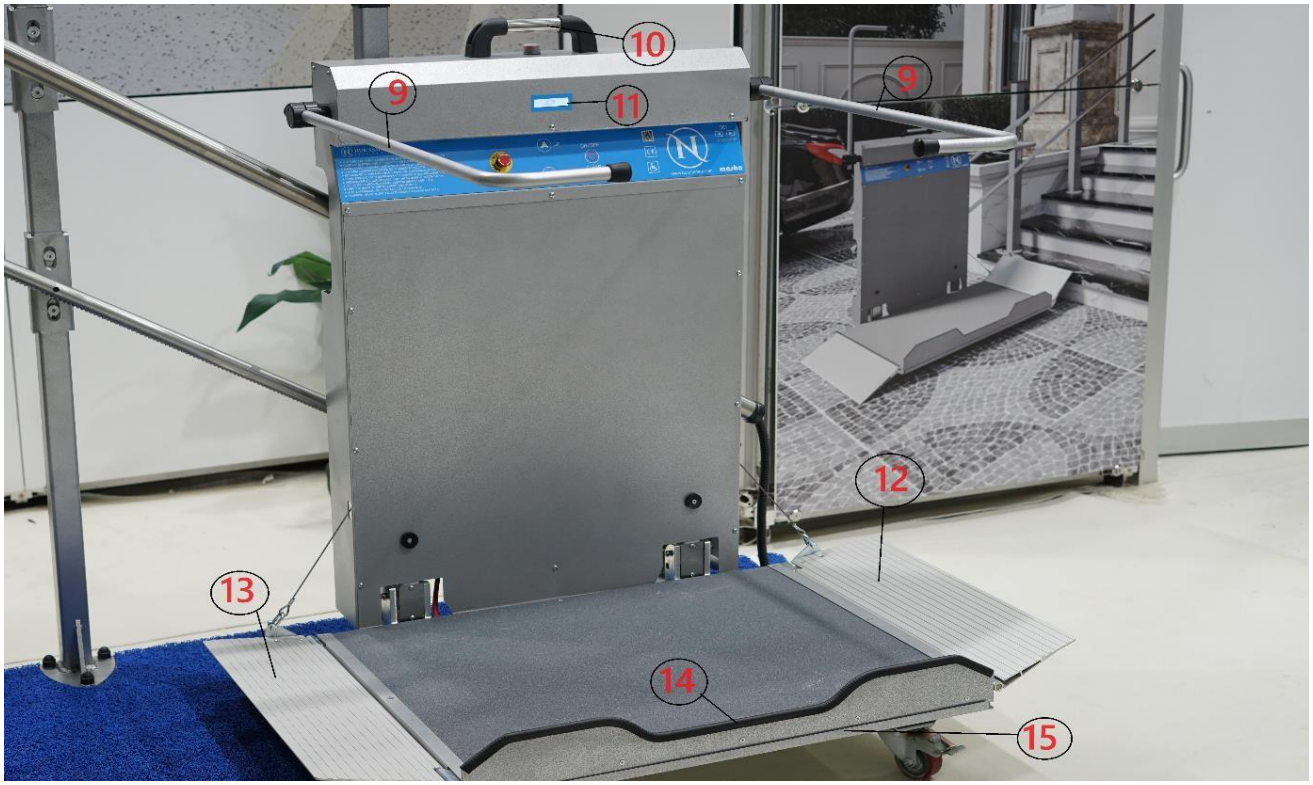
2.1. Keypad View

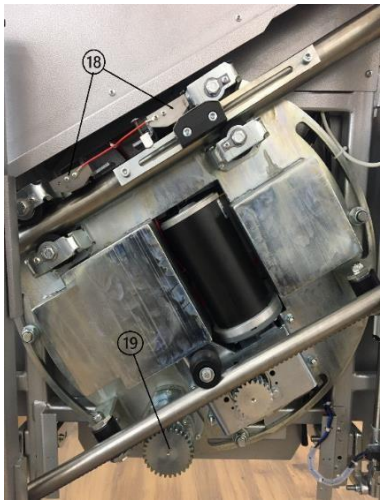
Keys on MASHA

Keys on the Remote Control Switch **Positions on the Remote Control**

No	Description
1	Emergency Stop Button
2	Up movement key
3	Down movement key
4	On-Off Switch
5	Technical Adjustment Key
6	Open Table Key
7	Table Close Key
8	Control Switch Key

2.2. Views of MASHA





No	Description
9	Safety handles
10	Handle Grip
11	Finger Screen
12	Right access ramp
13	Left access ramp
14	Barrier - Front access ramp (Optional)
15	Lower Chassis Switch (bottom side of the platform)
16	Fuse box
17	On / Off Button
18	Lower Upper Stop Contact Sensor
19	Parachute Brake (Emergency brake)

2.3. Fuse Box

The fuse box is located on the side of the lift unit and is fixed with two screws.

There are 2 pieces C40 and 1 piece C4 fuse.

The button with blue LED light indicates that the energy is coming and charging.

NOTE: If the blue light is not on, there is no energy. The battery (battery) may run out.

3. OPERATION OF THE PLATFORM

The up and down movement of the platform is provided by Totmann Principle. This system, which is compulsory in disabled systems in accordance with the machine safety regulations, provides movement by keeping the button pressed continuously. The system that moves when the user presses and holds the button stops when the button is released and the movement ends.

3.1. Remote Control

The remote control unit provides a great deal of convenience when using the passenger.

Please note that it is the sole responsibility of the passenger to check that the travel path of the platform is clear and to ensure safety when using the remote control.

The following buttons are available on all remote control units:

a) Push buttons to control the **UP** 

and **DOWN** 

function

b) Push buttons to control platform **ON**  and **OFF**  functions

3.2. Platform Mounted Keys

The following buttons are mounted directly on the lift unit (internal buttons):

a) Push buttons control the **UP** 

and **DOWN** 

functions.

b) The red push button with yellow outline controls the **Emergency Stop Function**. 

NOTE: When you press the emergency stop button, you should hear a continuous warning sound.

c) You can change the settings of the machine with **SET** 

buttons.

3.3. Recalling and Return the MASHA Unit

MASHA Unit can be recalled from the lower station position or sent to the upper station position with the remote control.

3.3.1. Calling or Returning the MASHA Unit from the Upper Station:

! VERY IMPORTANT! - Please make sure that the entire travel route is free of obstacles or people before calling or returning the lift!

Press and hold the **DOWN** button → After a short wait the lift will start descending.

3.3.2. Calling or Returning the MASHA Unit from the Lower Station:

Press and hold the **UP** button → After a short wait the lift will start moving to the upper station.

3.4. Access to MASHA Unit

The operation of the MASHA unit, access ramps and safety bars is fully automatic (electro-mechanical) and takes place as follows:

POSITION : Lower Station

Press and hold the platform **OPEN** button.

The platform will lower and both safety levers will open to the vertical position.

POSITION Upper Station

Press and hold the table **OPEN** button.

The platform is lower and the safety bars move to the following positions:

The safety bar on the upper floor opens to the vertical position; the safety bar on the lower floor stops in the horizontal position.

Press and hold the button until the platform stops automatically.

Do not load the platform until it is fully opened!

Before opening the table, make sure that there are no objects on the floor or in the immediate vicinity that may interfere with the work!

3.5. Travelling with MASHA Unit

LOCATION: Upper Station

 **Press and hold the UP button.**

Both safety bars are lowered to the horizontal position, the ramps are raised and the lift ascends to the upper floor.

When the platform reaches the upper station, continue to press and hold the button until the safety bar on the upper floor is raised to the vertical position and the access ramp is fully lowered.

The passenger can now move to the platform.

LOCATION : Upper Station

 **Press and hold the DOWN button.**

The safety bar on the upper floor is lowered to the horizontal position, the ramp on the upper floor is raised and the platform descends to the lower floor.

When the lift reaches the lower stop, continue to press and hold the button until both safety bars are raised to their vertical position and the access ramps are fully opened.

Release the button as soon as the movement sequence is completed, in this position the passenger can leave the platform.

3.6. Moving the MASHA Unit to Park Position

 **VERY IMPORTANT!** -Before closing the platform with the hand-held remote control, make sure that no objects are left on the platform and that the folding seat (if fitted) is properly positioned.

LOCATION: Upper or Lower Station

 **Press and hold the platform CLOSE button.**

Both safety bars close downwards and the platform folds upwards into the parking position.

To allow maximum clearance and therefore maximum access to the stairs and the upper travel rail, which can also be used as a handrail, it is recommended to park the lift in the station on the lower floor when not in use.

3.7. What should I do in case of an unforeseen stoppage?

- **In case the lift stops, please stay calm and do not panic!**
- **You are not in danger and nothing bad will happen to you.**
- Nevertheless, **we recommend that all users carry a mobile phone with them at all times.**

4. ELECTRIC OPERATION AND CHARGING ADVICE

To guarantee long-term fault-free operation of the platform lift, switch off the lift and disconnect it from the power supply after a long charging time or in the event of a long power failure (more than 12 hours).

Follow the steps below:

- Unplug the charger from the power supply.
- If the charger is installed in a wall-mounted box, disconnect it from the power supply.
- IMPORTANT: Press the UP or DOWN button briefly to stop the internal charging process. Do not stop at stops.
- Now switch the unit off at the main switch located on the service access door.

This procedure must be strictly adhered to, otherwise internal leakage currents will drain the batteries.

However, our general recommendation is that the lift remains connected to the charger at all times to ensure optimum charging and long life of the batteries.

4.1. Charging Unit

The platform is supplied with a battery charger.

The adapter has a charging voltage of 27.6 V DC and 2.5 A.

The mains voltage must be between 176 V - 264 V AC and the supply frequency between 50- 60 Hz.

This unit was chosen because it has a wide input tolerance range and is therefore suitable for use almost anywhere in the world.

There are 6 pieceses 12V 7 Ampere batteries inside your Masha platform.

5. SAFETY FEATURES

5.1. Safety Handles and Access Ramps

Safety handles and access ramps, Section 2.2, "**Views of MASHA**" (POS. 9, 12, 13 and 14), are designed to prevent people from falling from the platform during normal operations.

5.2. Parachute Brake

The Parachute Brake (see Section 2.2 - POS. 19) prevents an uncontrolled downward fall of the platform from the travelling rail in the event of mechanical or electrical failure.

5.3. Pressure Sensitive Contact Panel (Floor Tray)

The floor tray (see chapter 2.2 - pos. 15) guarantees safety against collisions with obstacles when travelling downwards (in combination with the contact sensors installed on the ramps).

5.4. Obstacle Sensor on Access Ramps

Contact sensors are fitted on the access ramps. Contact with any obstacle in the movement path will cause the lift to stop immediately. At any given time only the sensors in the direction of travel are active.

5.5. Weight Sensor When Folding Platform

The weight sensor is mounted in the center of the platform. When moving the platform to the closing position, if there is a weight on the platform, the platform will not close. It is designed to prevent accidental jamming of persons or objects with the lift.

5.6. Emergency Stop Button

If the emergency stop button is pressed, the lift will stop immediately. To release the emergency stop button, simply turn it to the left.

5.7. Safety Sensor on the Machine's Both Sides

If an obstacle is encountered on the rail and rack way, the lift will stop.

5.8. Safety Contacts on the Arms

The safety handles are equipped with a contact against collisions when descending.

6. OPTIONAL EXTRAS

Masha platform stair lifts can be equipped with a range of optional extras designed to meet the different requirements of our customers.

6.1. Key Operated Wall Mounted Remote Control

The remote controls can also be mounted on the wall if you wish, thanks to the cradles supplied with the remote controls. The remote control can be operated after activation with the key.

This feature ensures that the lift is safe against operation by unauthorized persons.

6.2. Hand Type Remote Control

The 2 remote controls for the upper and lower stops can be increased if you wish. 5 remote controls can be introduced to the platform.

This option offers the passenger a very high freedom of movement when using the lift.

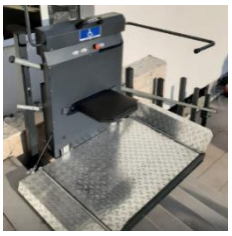
All functions (**UP** and **DOWN** movement, switching the platform **ON** and **OFF**) are available on the hand-held remote control and the user can carry it with him/her at all times.

6.3. Forward Mounted Access Ramp

In some cases, due to lack of available space, it is not possible to load a wheelchair onto the platform using the standard access ramps at either end.

In such cases, an extra ramp can be fitted along the front edge of the platform to improve all-round accessibility for wheelchair users.

6.4. Folding Seat



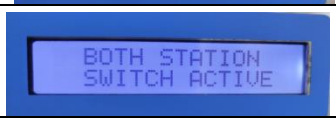
This folding seat allows the user to sit while the lift is in motion. The seating area is 35 x 40 cm and can carry a maximum load of 100 kg. It can be simply folded when not in use. The user must have the physical capacity to grasp and hold the safety handles in case the lift stops unforeseen.

6.5. Wall Mounted Enclosure Box for Charger

The wall-mounted plastic enclosure is designed to protect the charger from physical and environmental hazards and is suitable for indoor and outdoor use.

7. TROUBLESHOOTING GUIDE

When an error detected by the MASHA unit occurs, a warning text will appear on the display.
The error can be identified by looking at the display on the panel and the necessary action can be taken in accordance with the precautions specified below:

Screen Prompt and Meaning	Possible Cause of Problem	Solution
Error 1 	The emergency stop button is pressed. 	Release the emergency stop button (turn the button to the left) no signal sound should be heard.
Error 2 	The obstacle has contacted the left flap or wing and activated the switch. There may be an obstacle in front of the left flap (ramp).	Remove the obstacle and make sure that the platform can be moved easily.
Error 3 	The obstacle has contacted the right flap or wing and activated the switch. There may be an obstacle in front of the right flap (ramp).	Remove the obstacle and make sure that the platform can be moved easily.
Error 4 	The load sensor is activated when closing the platform. This is due to a load remaining on the platform when it is folded.	Remove the weight from the platform. Do not stand on the platform while it is being folded. Do not try to fold it with a wheelchair.
Error 5 	An obstacle has contacted and activated the switch under the platform. There may be an object touching the bottom table.	Remove the obstacle and make sure that the platform can be moved easily. There must not be an object caught in the lower table.
Error 6 	The sensor is activated when a force is applied to the arms while the platform is moving. There may be an object touching the arms	Remove the obstacle and make sure that the platform moves easily. There must not be an object caught in the arms.
Error 7 	The lift is not parked at a charging station.	Move the lift to a charging station with the **UP** or **DOWN** button.
	The charger is not plugged in or is faulty.	Check the power supply
	Batteries are empty or low on charge.	Move the lift to a charging station with the **UP** or **DOWN** button.
Error 8 	Parachute Brake is activated. The engine is forced to run with overload.	Call the technical service.
Error 9 	The Limit Switch remains pressed. It acts as an additional safety brake when it does not stop at the stop switches.	Release the limit switch spring.
Error 10 	Both Stop Switches are activated.	The problem is solved by inactivating the upper or lower stop switch.

8. SERVICE NOTES

For health and safety reasons, remember to switch off the platform at the main switch and disconnect it from the power supply before carrying out any service, repair or maintenance work!

8.1. General Maintenance

The following maintenance work may be carried out by personnel authorised by the customer:

- To remove excessive contamination or dirt (black traces of compacted dust) from the toothed travel rails, the rails can be cleaned using a light lubricant, stainless steel cleaning spray.After cleaning the upper travel rail with any degreasing agent, the rail should be treated with stainless steel cleaning spray to ensure a smooth ride.

- Over time, the hinges of the access ramps and the platform itself may begin to make squeaking noises during operation as a result of friction and wear. This can be eliminated by applying commercially available lubricant to the affected parts.

- We recommend that excessive soiling or dirt on platforms and ramps be removed with a damp cloth or mop and then thoroughly dried before resuming operation.

WARNING! When working on the drive rail there is a **high risk of being cut by sharp edges**!We recommend that personnel **wear safety gloves** during maintenance work.

8.2. Sensor Control Maintenance

In addition, the functionality of all emergency and safety features should be checked regularly as follows:

Emergency Feature	Check Timetable	Function
- Emergency **STOP** button	Press once a month	The lift unit stops.
- Pressure sensitive bottom tray	Press once a month	Travelling stops in **DOWN** direction.
- Sensors on access ramps	Press once a month	Travelling stops in **UP/DOWN** direction.
- Switch off the platform when there is a load on the platform	Press once a month	Platform closure stops.

8.3. Battery Maintenance

The service life of the batteries is on average 3-5 years.

To ensure the operational reliability of the MASHA unit, we recommend replacing the batteries every 3 years, this should be done by a qualified service technician.

The lift should be operated at least once every 2 weeks.

To protect the lift from rain, use the rain cover provided for outdoor installations when the lift is not in use.

8.4. Annual Check

The platform should be serviced at least once a year and subjected to a thorough inspection and service.

To guarantee the safety and reliability of this product, all aforementioned repair, maintenance or adjustment and control work must be carried out using genuine Masha spare parts.

Damage that can be proved to have been caused by failure to observe the above-mentioned controls, negligence or faulty maintenance or repair work is not covered by the warranty!

9. TECHNICAL DATA

Standard equipment

- Fully automatic operation of safety arms and platform
- Handrail (rail) made of stainless steel and pinion gear drive rail
- Control panel with Braille alphabet
- Gentle start and gentle stop
- Emergency stop button
- Obstacle sensors mounted on all sides
- 24 V battery operation, charger included
- Anti-slip tape integrated into the platform surface
- Detection of errors with 64 x 14 LCD display

Space requirements

- 25.5 cm in folded position

Platform dimensions (in mm)

- 1000 x 800 / 750 x 700/ 700 x 900 / 900 x 800 / 1200 x 800

Load capacity

- 225 kg Standard
- 300 kg (optional)

Working angle

- Standard 18° to 37°
- Optional 0°-17° / 38° to 47°

Operation speed

- 0,7 - 0,15 m/s

Remote control options

- The switch control box can be flush-mounted or mounted directly on the wall.

Color options

- Space Grey RAL 9006 Standard (special color)
- RAL colors on request (optional)

Ingredients

- Stainless steel, powder coated 1040 steel, aluminum sheet.
- Support elements made of zinc-coated steel
- Anti-slip tape made of scratch-resistant plastic (PVC)

Travel rails

- Stainless steel/galvanized pipe top handrail Ø 42,4
- Galvanized pinion geared lower drive rail Ø 30

10. INTENDED SCOPE OF ACTIVITY

The Masha unit is a fixed installation that can only be used for the purpose for which it was originally designed.

Environmental operating conditions:

- -20° to +40°C operating temperatures
- Humidity level between %0 – %99
- **The Masha platform stair lift is not suitable for use in environments with a high risk of explosion!**

The instructions contained in these notes are necessary for the normal scope of operation and should be fulfilled by the customer as far as possible.

The manufacturer accepts no liability for any injury or mechanical damage that may occur as a result of improper use of its platform or use of this platform for any purpose other than its original purpose.

The platform is designed to transport a disabled or elderly person between predetermined stations as follows:

- standing on the platform or
- sitting in a wheelchair on the platform or
- folding seat (optional extras)

The platform **is not intended** for the following purposes:

- Transport of goods!
- Transport of several persons at the same time!

The Masha unit is manufactured in accordance with the standards.

However, these standards alone do not guarantee safe and secure operation.

For this reason, we have prepared this user manual to assist in the daily use of the platform. Everyone who will use this platform must read, understand and strictly follow the contents of this manual to ensure that injury and property damage are prevented.

We ask you to pay close attention to the "Safety Guidelines".

In addition to the requirements for this platform and personnel, the environment near the running rails and the lift platform must also be taken into account to guarantee reliable and safe operation at all times.

The technical personnel responsible for the commissioning, installation and maintenance of the platform must all have received specific training to ensure that they are qualified to carry out this work.

This manual **must** also **be made available for all users to read** and we recommend that the operator keeps it in the immediate vicinity of the MASHA unit.

10.1. Warranty Conditions

The warranty is void in the event of damage or injury due to improper use, maintenance and repair of the platform and its auxiliaries and failure to read and follow the instructions contained in this user manual.

10.2. Basic Operator Qualifications

10.2.1. User

All users must have the necessary mental and physical skills and have sufficient eyesight to be able to recognize and react to a hazard or obstacle and to be able to move.

This applies in particular to users of powered wheelchairs who wish to use the platform. They must be in full control of the battery-powered wheelchair and be able to stop it in time when climbing onto the platform.

The user must also be at least 12 years old and have the necessary motor skills to be able to use the lift and to be able to activate the emergency stop at all times during the journey.

The lift is designed for use by a person in a sitting position. Standing operation is only permitted for persons between 140 cm and 200 cm tall.

People who do not meet these criteria are not allowed to use the lift and must be supported by an assistant.

Before operating the platform, all users must have received the operating instructions or have fully read and understood the contents of this user manual.

10.2.2. Installation Staff

- Nur Elevator must be trained by an approved business partner.
- Must be able to assess the load carrying capacity of the walls and supporting elements to which the platform and its equipment will be attached.
- Be able to read and understand the installation drawings provided.

Nur Asansör does not accept any responsibility or liability for this work.

10.2.3. Maintenance and Service Staff

All necessary maintenance work must be carried out by Nur Elevator approved partners. These persons must have experience in electro-mechanical engineering and must be familiar with the lift and its auxiliaries.