

User Manual

Electric Stacker - Lithium Battery

Type-PS15ELI



Read this manual carefully before using the stacker.

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1. Saving the user manual

Keep this user manual carefully. The information in this document may be required for installation, use, maintenance, or troubleshooting. Always keep the manual accessible for future reference. This user manual contains important safety instructions and legal information. Retain the document for the entire lifespan of the product. Always include the manual when the product is resold, transferred, or moved. It is mandatory to keep this user manual in a centrally accessible location. Employees working with this product must have access to the most recent version of this documentation at all times.



Dispose of electrical appliances in an environmentally friendly manner. Do not throw electrical appliances in with household waste. In accordance with European Directive 2012/19/EU on electronic equipment, they must be collected separately for recycling. Contact your local authorities for available disposal options for your worn-out appliance.

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2. General description

Before using this machine, you must first read and understand the user manual in full!!!

This manual contains important information regarding the proper installation, operation, and maintenance of the equipment described herein. The use of any electric stacker involves various risks of personal injury or property damage. Anyone involved in the installation, maintenance, or operation of the electric stacker must be fully familiar with the contents of this manual. To protect yourself against personal injury or property damage, you must follow the directions and instructions in this manual.

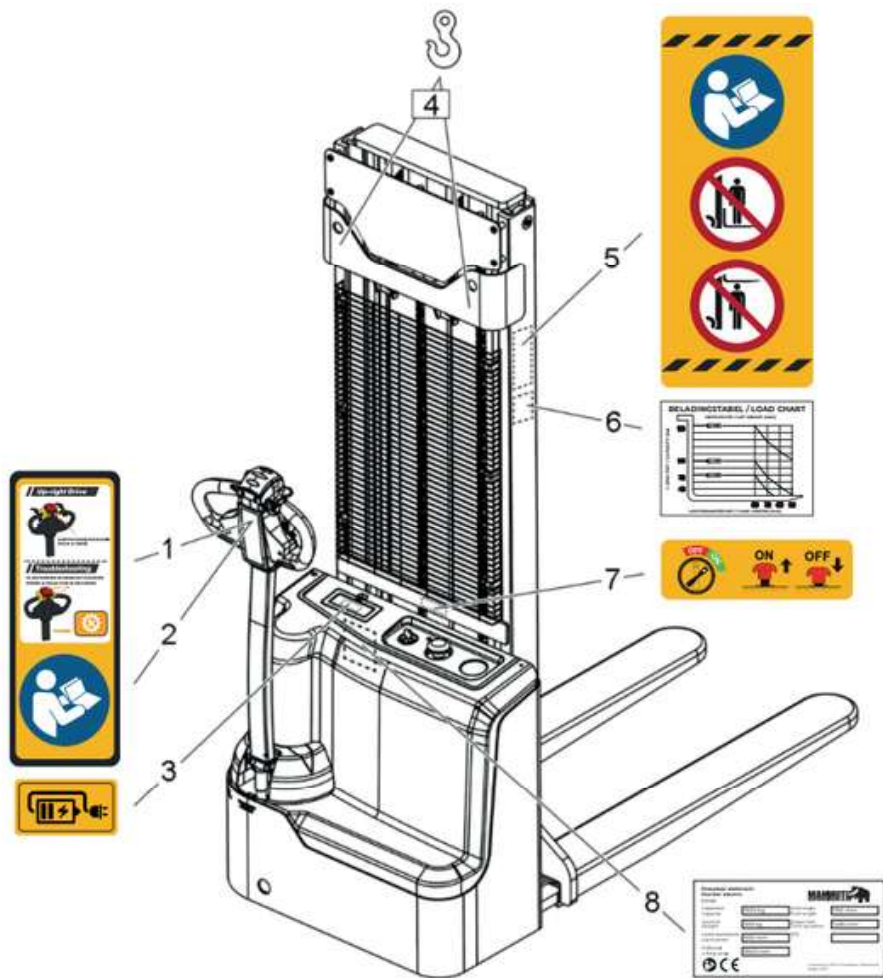
Every Mammuth electric stacker is manufactured in accordance with the Machinery Directive 2006/42/EC and the EMC Directive 2014/30/EU. A manual, including a Declaration of Conformity, is supplied with every electric stacker. These must be kept safe and maintained.

As quality improvements are constantly being made to the equipment, Mammuth reserves the right to change the specifications of the equipment described in the manual.

3. Environment & disposal

- Do not use in environments with harmful environmental factors such as corrosive substances, excessive dust formation, or an uneven surface.
- Proper disposal of batteries in accordance with environmental legislation.

4. Labels & Symbols



1. Operating instructions
2. Read the manual before use
3. Charging battery
4. Lifting points
5. Warning! Do not stand on or under the lifting forks during use
6. Loading label
7. Power-on instructions
8. Nameplate

5. Safety regulations

- The user must read and understand all warning signs and instructions in this manual and on the pallet stacker itself before operating it.
- Do not use the electric stacker unless you are familiar with it, have been trained for it, or are authorized to use it.
- Check the device/machine for missing/loose parts, deformations, and defects before EVERY use. In the event of any of the aforementioned issues, the machine must be taken out of service immediately.
- Never use the stacker on sloping floors or on a poor, uneven surface.
- It is not permitted to use the stacker in dimly lit areas.
- It is prohibited to brake the stacker while in motion by turning the lever at a sharp angle.
- It is forbidden to transport people with the stacker.
- It is not permitted to use the stacker as a jack.
- It is not permitted to use the forks of the stacker as a lever to lift the loads.
- The load must be picked up centered on the forks of the stacker at all times.
- It is strictly forbidden to allow persons to stand under or next to a lifted load.
- Do not charge more than the permitted maximum capacity.
- It is not permitted to use the stacker in risky situations.
- It is not permitted to use the stacker if you are fatigued or under the influence of medication, alcohol, and/or drugs.
- It is not permitted to use the stacker in an explosive atmosphere.
- The driver must wear the correct PPE, including safety shoes and gloves.
- Keep other persons at a distance of at least 1.5 m when operating the stacker.
- In any special or hazardous working environment, the user must carry out all relevant risk assessments and method statements before commencing work with the forklift.
- It is prohibited to use the stacker if there is a risk that the load may fall down, for example: from unsafe slopes or descents.
- Users must perform regular checks and maintenance.

6. Parking regulations

- Do not park on a slope.
- The forks must be lowered completely.
- Press the emergency stop button.
- Before you use the stacker
- The user must stand at the operating position.
- Set the lever to the riding position
- Test lifting, steering, speed, operation, horn, and brakes to check if all functions work normally.
- Ensure the availability of fire fighting facilities at the workplace. Do not use a flame to check the battery and the hydraulic system.
- Check the brake, drive, alarm, and safety systems regularly and keep them in good condition.
- Keep the type plate and warning stickers clean and legible.
- Check and maintain the lifting system regularly.
- Check and maintain the hydraulic system regularly. Ensure there is no oil leakage from the cylinder, the hydraulic valve, and other parts of the hydraulic system.
- Park the electric stacker in clean areas to ensure the least risk of fire.
- Unauthorized modification is prohibited.

7. Safety instructions for the battery

1. Prevent fire

- Do not expose the battery to an environment of more than 60 degrees Celsius.
- Do not place the battery near a heat source, e.g. a stove, fireplace, etc.
- Avoid direct strong sunlight.
- Do not place the battery in the vicinity of flammable and explosive objects.

2. Prevent explosion

- Severe collision prohibited.
- Drilling prohibited.
- Forbidden to throw into the fire.

3. Avoid electrical leakage

- Do not open the battery.
- Do not touch the battery with wet hands.
- Do not expose the battery to moisture or liquids.
- Do not place the battery within reach of children or animals.

4. Prevent damage to the battery system

- Limit contact with liquids and corrosive chemicals.
- Avoid high temperature and high pressure.
- Avoid causing damage to the battery or disassembly through inaccurate/careful use.

5. If the product smokes and burns, leave the workshop immediately. Disassembly or unauthorized repair is strictly prohibited.

Contact our company or the authorized dealer for technical support as soon as possible.

6. In the event of exposure of the battery to water or other liquids, use must be stopped immediately and the area vacated. Disassembly or unauthorized repair is strictly prohibited.

Contact our company or an authorized dealer for technical support as soon as possible.

7. Remove the battery immediately if it produces an unusual odor. Avoid contact with leaked fluids and gases. Any type of contact must be cleaned immediately.

8. When working with the battery, one must be equipped with the correct PPE, which includes face protection, respiratory protection, acid-resistant clothing, safety gloves, and safety shoes.

9. When the stacker is not in use, connect the charger to the battery charger to prevent deep discharge/damage to the battery.

10. Charge the battery every 7 days.

8. Instructions for use

8.1 Safety instructions for use

1. The operator must be trained in the use of the stacker per specific department. The operator must successfully pass the test of operating skills and emergency procedures and be authorized by the user or owner.

2. Responsibilities, obligations and regulations of the operator:

- The operators must be trained in the operating instructions, have successfully passed the tests, and be authorized to use the stacker by the providers.
- The operators are required to fully learn and understand these instructions.
- The operators are responsible for operating the stacker in accordance with the relevant rules and regulations.
- It is important that operators wear PPE before operating the stacker; wearing S3 safety footwear is mandatory.

3. Authorization and usage limits:

- The stacker may only be operated by authorized persons.
- Do not use the stacker to transport and lift people.
- Operators are responsible for personal safety and the safety of stackers when operating the stacker.

4. Equipment Problem Procedure: Inform the supervisor when there are problems with the stacker.

Example: wear on the wheels and the brake stops working, etc. The stacker must be taken out of service immediately until all defects have been rectified.

8.2 Check before first use

ATTENTION! Check the device/machine for missing/loose parts, deformations, and defects before EACH use. In the event of any of the aforementioned issues, the device/machine must be taken out of service immediately.

The stacker must only be powered by battery power. Check and test the stacker after transport.

- Charge the battery.
- Check if the equipment is complete and in good condition.
- Test whether the hydraulic system is working and whether there is sufficient oil in the system.
- The wheels are flexible and may show slight deformation after prolonged inactivity. This is normal. After some time of use, the wheels will return to their original shape.

8.3 Commissioning

During the first 100 operating hours, the stacker must be 'broken in' to guarantee an optimal service life; pay close attention to the following:

- The new battery must not be completely discharged. Do not let the battery level drop below 20%; fully charge when the battery reaches 20%.
- Perform preventive maintenance, see Chapter 5. Maintenance.
- Avoid abrupt braking, abrupt acceleration, and sharp turns.
- Keeps all moving parts well lubricated.
- Do not attempt to load the stacker to its maximum; try to load it to a maximum of 70-80% (700-800 kg) during the first 100 hours.

8.4 Safety devices and warning signs

Instructions for safety devices and warning signs must be strictly adhered to in accordance with the regulations of this instruction.

8.5 Preparation for work

The operator must ensure that no persons are present in the danger zone (within 1.5 m of the forklift's runway) before commencing work.

- Check and test the pallet truck before starting work.
- Check the pallet truck for obvious damage to the wheels or forks.

8.6 Picking up the load with the stacker

Drive the stacker slowly to the front of the pallet. Then drive the stacker forks under the pallet to the end of the fork length. Lift the load by pressing the Lift button. Ensure that the center of gravity of the load is centered on the stacker; otherwise, the stacker may tip over. Ensure that the load is properly positioned on the pallet and cannot fall off. Refer to the load chart, which can also be found on the stacker.



8.7 Driving and operating the stacker

If necessary, unlock the emergency stop and turn the ignition key; then move the control lever to the S-range (low speed) or K-range (higher speed) to activate control of the drive lever. In the S-range, move the drive lever forward to drive forward and backward to drive backward. The more the lever is pressed, the higher the driving speed. The control lever is directly coupled to the drive; the drive wheel will follow the position of the handle and thereby determine the driving direction of the stacker.

8.8 Driving with the load

ATTENTION! Always move the load at a low height so that it is just off the ground and can be transported; only lift the load to the required height when stacking! It is necessary to pump the stacker to the correct position to drive. You must always ensure that the pallet remains clear of the floor. The stacker must be operated carefully at a constant speed, while exercising sufficient care and attention for your surroundings. Unauthorized persons must be directed out of the danger zone. In the event of danger to persons, a warning signal must be given in time using the horn. If unauthorized persons do not leave the danger zone despite the warning, the stacker must be brought to a standstill immediately.

8.9 Brakes

Electric brakes:

Release the driving lever; the stacker brakes to a complete standstill.

WARNING! When the drive lever is in the neutral position, the stacker must not move at all. If this is not the case, the stacker must be taken out of service immediately until the defect has been rectified!

8.10 Dynamic braking

By moving the drive lever to the other side (from forward to reverse or vice versa), the stacker stops first before driving in the other direction. **CAUTION!** The drive lever must automatically spring back to the neutral position when released. If this is not the case, the stacker must be taken out of service immediately until the defect is rectified!

8.11 Emergency stop

In case of emergency, braking is possible in several ways: Release the control lever, it springs back into the B-range, and the stacker stops automatically. Pull the control lever all the way down into the B-range, and the stacker stops.

Press the emergency stop button; all electrical systems are switched off.

8.12 Lowering the load

Press the Pocket button, ensuring that there is sufficient clear space behind you to drive the stacker out from under the load.

WARNING! Never lower the load while driving!

8.13 Parking the forklift

When the stacker is no longer needed, it must be stored in a safe place. Pay attention to the following points: Lower the forks to the lowest position.

Press the emergency stop button and remove the ignition key to interrupt the electrical circuit.

CAUTION! Never park the stacker with a raised load and never park the stacker on a slope!

9. Maintenance

9.1 Safety regulations for maintenance

1. Maintenance and inspections must be carried out within the time intervals found in the Table of Maintenance Intervals.
2. It is strictly prohibited to make modifications or adjustments to the stacker; furthermore, under no circumstances may adjustments be made to speed and/or safety settings.
3. If parts need to be replaced, only original Mammuth parts may be used to guarantee safe and reliable operation. If other parts are used, the warranty will be voided. Repair work must be carried out exclusively by a specialized person or company; we recommend contacting the point of sale where the stacker was purchased for this purpose.
4. Before putting the truck back into service after maintenance, cleaning, or repair work, the following items must be tested:
 - Test de claxon
 - Test the operation of the emergency stop button
 - Test the operation of the brake
 - Check the hydraulic and transmission oil levels
5. If it is necessary to lift or hoist the stacker for maintenance or repair work, please note the following:
 - The stacker may only be lifted using the designated attachment points.
 - Work shall be carried out exclusively by a competent person. Appropriate measures must be taken to prevent shifting, instability, or tilting.
6. Work may only be performed under the stacker when it is additionally secured with a strong chain and when there is absolutely no possibility that the stacker can fall or tip over.
 - For cleaning activities, the following rules must be adhered to:
 - Do not use aggressive and/or flammable cleaning agents.
 - Before cleaning, measures must be taken to prevent sparks or short circuits. To do this, disconnect the battery terminals.
 - For cleaning, low-pressure blower/suction devices with non-conductive and anti-static brushes may be used.
 - It is strictly forbidden to clean the stacker with pressurized water.
7. Maintenance or repairs to the electrical system must be carried out only by a specialized person or company. Please contact the point of sale where the stacker was purchased for this purpose.
8. The quality of the wheels determines the stability and performance of the stacker; use only original Mammuth parts when replacing wheels. When replacing wheels, do so simultaneously on both the left and right sides to prevent instability of the stacker.

9.2 Check before use

Daily inspection of the stacker helps prevent wear. Particular attention must be paid to the wheels and axles, as wires, pieces of fabric, etc., can block the wheels. If anything is lodged in the wheels, it must be removed. Repairs and maintenance work must be carried out only by qualified personnel with knowledge of mechanics.

The battery is the energy source of the stacker; it provides sufficient power and lasts a long time, provided it is maintained according to the instructions.

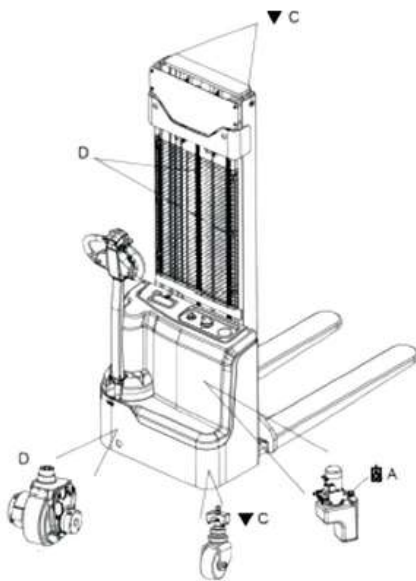
10. Maintenance & Inspection




Frequency	Component	Check / Activities	Action / Attention Point
Daily	Battery	Check battery indicator on display	Recharge battery when below 20%
Daily	Hydraulic system	Lift forks to maximum height and check oil level	Ensure sufficient oil is present
Weekly	Battery	Charge battery	Fully charge battery at least once per week
Weekly	General cleaning	Clean stacker	Do not use aggressive cleaning agents
Weekly	Wheels / Axles	Check for wrapped material	Carefully remove materials
Weekly	Moving and pivoting parts	Lubricate	Prevents unnecessary wear
Yearly	General inspection	Inspection by a specialized person/company	At least once per year
Yearly	Administration	Record inspection results	Keep report (use maintenance log at the back of the document)

11. Notice

1. Clean the stacker thoroughly.
2. Check the brakes.
3. The stacker must be stored in a horizontal position at all times.
4. The storage temperature must not be lower than 0°C and not higher than 40°C.
5. Do not leave the stacker outside and prevent rain and snow from damaging the machine.
6. Lubricate the main pump and cylinder pump with grease to prevent corrosion. Also lubricate all moving and hinged parts to prevent corrosion. Additionally, apply a thin layer of oil/grease to all unpainted parts to prevent corrosion.
7. If the stacker is not used for an extended period, the battery must be fully charged separately at least once a month. Recharge if the level drops below 30%.
8. Check the hydraulic oil level regularly, but at least once a year, and top up if necessary.

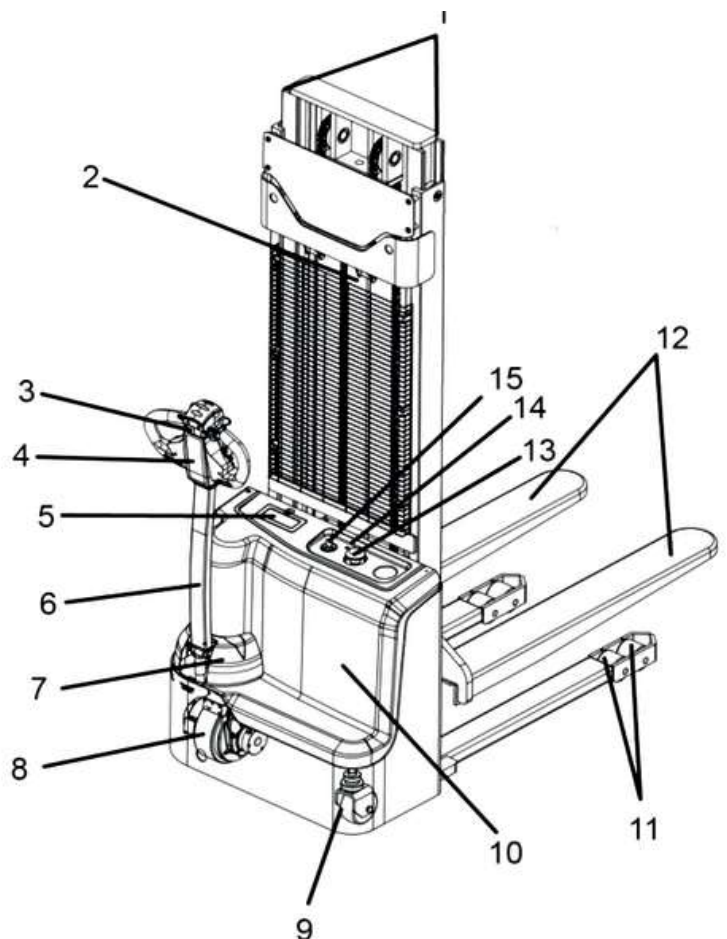
12. Oil lubrication points



-  Filling plug for hydraulic oil
-  Lubrication point
-  Drain plug for hydraulic oil

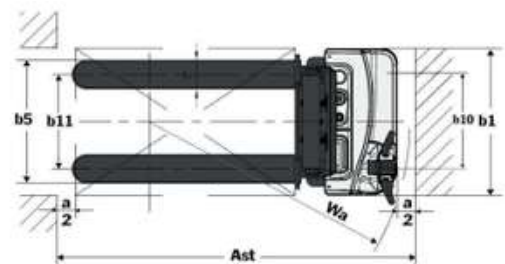
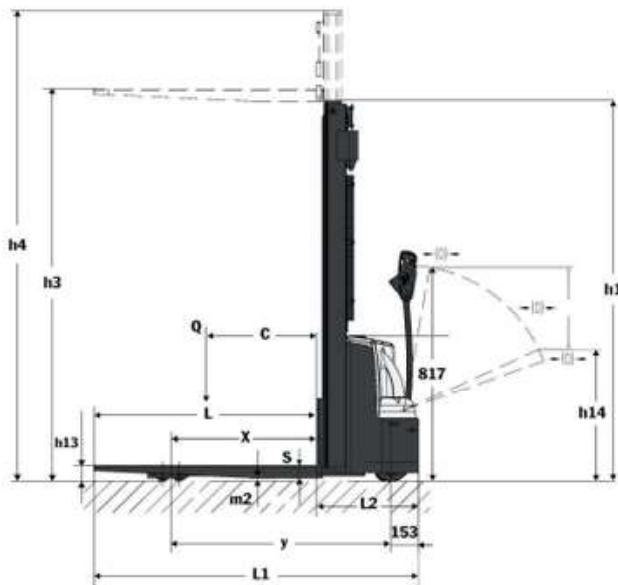
13. Parts list

- 1 PPS15ELI-01 Mast
- 2 PPS15ELI-02 Cylinder assembly
- 3 PPS15ELI-03 Accelerator assy.
- 4 PPS15ELI-04 Control box handle
- 5 PPS15ELI-05 Charging plug
- 6 PPS15ELI-06 handle tube
- 7 PPS15ELI-07 Bottom cover
- 8 PPS15ELI-08 Drive unit assembly
- 9 PPS15ELI-09 Universal wheel
- 10 PPS15ELI-10 Top cover
- 11 PPS15ELI-11 Wheel
- 12 PPS15ELI-12 Fork
- 13 PPS15ELI-13 Emergency stop switch
- 14 PPS15ELI-14 LED charging
- 15 PPS15ELI-15 Key switch with buttons
- 16 PPS15ELI-16 Smart control buttons



14. Specifications

- Lifting capacity 1500 kg
- Max. lifting height 3500 mm
- Battery type Lithium-ion
- Battery voltage 24V / 60 Ah
- Power supply 230V
- Drive motor power 0.75 kW
- Lifting motor power 2.2 kW
- Lifting speed (loaded) 0 – 102 mm/sec
- Lifting speed (unloaded) 0 – 190 mm/sec
- Lowering speed (loaded) 30 – 135 mm/sec
- Lowering speed (unloaded) 20 – 200 mm/sec
- Speed (loaded) max. 4 km/h
- Speed (unloaded) max. 4.5 km/h
- Turning radius 1425 mm
- Gradeability max. (loaded / unloaded) 5% / 10%
- Fork dimensions (l × w × h) 1150 × 160 × 70 mm
- Overall width 560 mm
- Wheel material Polyurethane
- Brake type Electromagnetic



16. Warranty

Warranty Terms and Conditions

1. This warranty shall enter into force on the date stated on the original purchase invoice and shall remain valid for a period of twelve (12) months.
2. This warranty is non-transferable unless prior written consent has been obtained from the supplier.
3. Warranty claims will not be accepted without presentation of the original purchase invoice.
4. This warranty shall apply exclusively provided that the product has been used in full compliance with the instructions contained in the user manual and solely for its intended purpose.
5. No alterations, modifications, or technical changes may be made to the product.
6. This warranty shall be void in the event of improper, negligent, or incorrect use of the product.
7. Transportation, shipping, and related costs are expressly excluded from this warranty.
8. Any repair work must be carried out exclusively by the supplier or an authorised service partner. Repairs performed by unauthorised third parties shall immediately void all warranty rights.
9. Repairs performed during the warranty period shall not result in an extension of the original warranty period. However, a separate warranty period of three (3) months shall apply to the repaired components, provided that the original warranty period has expired.
10. All maintenance and servicing operations described in the user manual must be performed in a timely and proper manner. Failure to do so may result in the warranty becoming void.
11. Warranty claims may only be submitted to the original point of sale at which the product was purchased.

17. Declaration of conformity

EG-verklaring van overeenstemming - Declaration of conformity – Konformitätsverklärung - Declaration de conformite - Dichiarazione di conformita- Declaracion de conformidad

Wij, We,Wir,Nous,**Valkenpower BV, Haverkamp 11, 6051 AC Maasbracht, Nederland**, verklaren geheel onder eigen verantwoordelijkheid dat het hieronder beschreven product in overeenstemming is met de volgende EU-richtlijnen, Declare entirely under our own responsibility that the product described below is in conformity with the following EU Directives, Erklären in alleiniger Verantwortung, dass das nachfolgend beschriebene Produkt den folgenden EU-Richtlinien entspricht, dDéclarons sous notre entière responsabilité que le produit décrit ci-dessous est conforme aux directives européennes suivantes.

Type Model Art Type	Beschrijving Description Beschreibung Description	Merk Brand Marke Marque
PS15ELI	Elektrische stapelaar	Mammuth
PS15ELI	Electric stacker	Mammuth
PS15ELI	Elektrischer Hochhubwagen	Mammuth
PS15ELI	Gerbeur électrique	Mammuth

Waarop deze verklaring betrekking heeft, in overeenstemming zijn met de volgende normen:To which this declaration relates, is in conformity with the following standards :Auf die sich diese Erklärung bezieht, entspricht den folgenden Normen entsprechen:À laquelle la présente déclaration se rapporte, sont conformes aux normes suivantes

Standaard, Standards:

EN ISO 12100:2010, EN ISO 3691-1:2015/A1:2020, EN 16307-1:2020, EN 1175:2020, EN 13059:2002+A1:2008, EN 12053:2001+A1:2008, EN 12895:2015+A1:2019

De machinerichtlijn,The Machinery Directive, Die Maschinenrichtlinie, La Directive sobre máquinas **2006/42/EG; 2014/30/EU**

Directeur Valkenpower



B.A.H Valkenburg

Nederland, Maasbracht, 04-02-2026