



KERNLOCHBOHRER[®]
PROFESSIONAL POWER TOOLS



Operating instructions

Mobile Light Tower MLT 4x400

BA-09-000003-02-EN

Scope of application

These Operating instructions only apply to the appliance labelled on the cover sheet.

Check the model using the rating plate on the appliance.

Original instructions / translation of the original instructions

In accordance with the EU Machinery Directive, the German copy of these Operating instructions is the original instructions.

Copies in other languages are translations of the original instructions.

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The function of the machine is limited to the functions described in the associated technical documentation.


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1 Information and support

1.1 Scope of application

- ① These Operating instructions only describe the use of the Mobile Light Tower MLT 4x400 device.
-  The Si6000E Inverter power generator may only be used in accordance with its Operating instructions.

1.2 Thanks to the buyer

Thank you for purchasing a device from Kernlochbohrer GmbH.

Please read the Operating instructions carefully and observe the safety instructions. By following the Operating instructions, you will be able to fully utilise the outstanding performance of our product.

If you have any questions regarding the operation of the device, please contact Kernlochbohrer GmbH directly. We are available to answer your questions at any time.

1.3 Using the Operating instructions

The appliance is intended for professional use and may only be operated by trained personnel. Strictly adhere to the instructions in the Operating instructions.

Our company declines all responsibility if the Operating instructions are not observed, which may result in injury or damage to property.

The Operating instructions are indispensable for using the appliance. The Operating instructions must therefore always be kept close to the appliance and be accessible to the intended personnel at all times.

In addition to the Operating instructions, the generally applicable and local regulations for accident prevention and environmental protection must be provided; compliance with these regulations must be checked regularly.

1.4 Changes

Kernlochbohrer GmbH reserves the right to change the design and appearance of the products and their Operating instructions. Future changes to the Operating instructions will be made without prior notice.

1.5 Explanation of symbols



The symbol draws your attention to dangers that you must be aware of when carrying out the following work in order to avoid injury to yourself, other persons or damage to property.



Cross-reference to another point in the Operating instructions.



Prerequisite for an action.



Action to be performed.



Behaviour of the device that is to be expected as a result of the preceding action.



Background information or reference to special features.

1.6 Guarantee

In accordance with Kernlochbohrer GmbH's general terms of delivery, a warranty period of 12 months applies to material defects in business transactions with companies (proof by invoice or delivery note).

Damage caused by natural wear and tear, overloading or improper handling is excluded.

Damage caused by material or manufacturer defects will be rectified free of charge by repair or replacement. Complaints can only be recognised if the device is sent to Kernlochbohrer GmbH undismantled.

Wear parts are excluded from the warranty.

1.7 Environmental protection

1.7.1 Disposal of the packaging

The packaging is made from recyclable materials. They must be disposed of in accordance with their labelling and municipal guidelines.

1.7.2 Disposal of the product

Follow national regulations on environmentally friendly disposal and recycling of used machines and accessories.

1.8 Service

Precise information and specific questions allow faults to be rectified quickly, make it easier to order spare parts and prevent incorrect deliveries.

Before contacting the service, please collect the following data first.

The model designation and serial number must be stated for all questions and orders. This information can be found on the rating plate of the appliance.

Further information is required in the event of faults:

Type and extent of the disorder, accompanying circumstances, suspected cause.

Please contact us to order spare parts. We will then send you the relevant documents.

- ① You are welcome to send us photos when ordering spare parts or videos in the event of faults.

Contact details:

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72663 Großbettlingen
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Phone: +49 (0)70 22 / 50 34 900
E-mail: info@kernlochbohrer.com
Internet: <http://www.kernlochbohrer.com>

2 Security

2.1 General information

The appliance has been built according to the state of the art and in compliance with the applicable laws, standards and safety regulations. Nevertheless, the use of the appliance may pose a risk to the user or third parties and cause damage to the appliance and other property.

The appliance may only be used if it is in perfect working order and in accordance with its intended use and in a safe and hazard-conscious manner.

If the appliance is damaged or malfunctions, take it out of operation immediately, secure it against use and repair it or arrange for it to be repaired.

2.2 Intended use

This device is a mobile light tower designed for the illumination of outdoor areas.

The mobile light tower must be combined with the Si6000E Inverter power generator (article number 9010) from Kernlochbohrer GmbH to supply the mounted floodlights.

As an alternative to the power supply from the power generator, the mobile light tower can also be connected to a building installation.

The appliance may only be used within the limits of its technical data. This information, for example power specifications and ambient conditions, can be found in the "Technical data" chapter.

Any other or additional use is considered improper use - risk of accident! Kernlochbohrer GmbH is not liable for any resulting damage. The risk is borne solely by the operator.

Intended use also includes observing the operating instructions and complying with the prescribed maintenance intervals.

2.3 Warnings and safety instructions

The safety of yourself and others is very important. Please read the safety warnings in the Operating instructions and the stickers on the appliance carefully.

A warning can draw your attention to potential dangers that could harm you and others. Each warning is preceded by one of the four signal words "DANGER", "WARNING", "CAUTION" or "NOTICE":



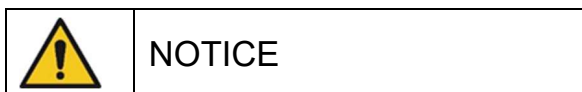
Instructions with this signal word warn of an imminent danger that will result in death or serious injury if you do not follow the instructions. Follow the instructions.



Instructions with this signal word warn of a possible danger that could result in death or serious injury if you do not follow the instructions. Follow the instructions.



Notes with this signal word warn of a possible danger that could result in moderate or minor physical injury or damage to property if you do not observe the note. Follow the instructions.



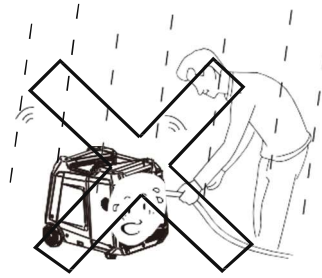
Instructions with this signal word warn of a danger that will result in material damage if you do not follow the instructions. Follow the instructions.

2.4 Safety instructions for handling power generators

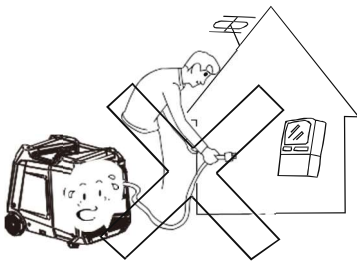
Before putting a generating set into operation, you should have read and understood its operating instructions and familiarised yourself with the safe operation of the generating set in order to avoid accidents.



Do not use indoors!



Do not use in a damp environment!



Do not connect the generating set directly to a domestic installation!



Do not smoke when refuelling and keep ignition sources away!



Do not spill petrol when refuelling!



Before refuelling: Switch off the generator and allow it to cool down!



The Si6000E Inverter power generator may only be used in accordance with its Operating instructions.

2.5 Safety regulations for the operator

2.5.1 Organisational safety measures

The Operating instructions must always be available to operating and maintenance personnel. They must therefore always be kept at the place of use of the appliance.

The regulations on accident prevention and environmental protection applicable at the place of use of the appliance must also be available. The operator of the appliance must regularly check that they are complied with.

The appliance must not be operated in potentially explosive atmospheres or in the vicinity of flammable liquids, gases or combustible dust.

All safety and danger notices on the appliance must be legible and must not be removed.

Operating and auxiliary materials, such as lubricants or cleaning agents, must be selected in such a way that the limit values for hazardous substances applicable at the place of use are complied with. The regulations for environmental protection and disposal applicable at the place of use must be complied with.

2.5.2 Changes to the device

The operator may not make any modifications to the device without written authorisation from Kernlochbohrer GmbH. If the operator carries out modifications without authorisation, the warranty becomes void. Kernlochbohrer GmbH is not liable for damage caused by unauthorised modifications.

2.5.3 Spare parts

Spare parts must comply with the properties defined by Kernlochbohrer GmbH. This is always guaranteed for spare parts supplied by Kernlochbohrer GmbH. Kernlochbohrer GmbH is not liable for damage caused by the use of unsuitable spare parts.

2.5.4 Personnel

All persons tasked with commissioning, operating and maintaining the appliance must have read and understood the Operating instructions beforehand.

The appliance may only be operated by persons who have been adequately instructed beforehand.

Maintenance of the appliance may only be carried out by persons who have completed the appropriate specialised training for this activity.

Minors are not permitted to work with the device. Young people over the age of 16 who are trained under supervision are exempt from this regulation.

2.6 Safety regulations for staff

2.6.1 Safe behaviour

All persons responsible for commissioning, operating and maintaining the appliance must have read and understood the Operating instructions beforehand.

The appliance may only be operated by persons who have been adequately instructed beforehand.

Maintenance of the appliance may only be carried out by persons who have completed the appropriate specialised training for this activity.

Minors are not permitted to work with the device. Young people over the age of 16 who are trained under supervision are exempt from this regulation.

Any work on and with the appliance that could jeopardise safety must be avoided.

All safety and danger notices on the appliance must be legible and must not be removed.

When using a power generator, the engine produces exhaust fumes that are hazardous to health and can cause symptoms of poisoning. A power generator may therefore only be operated outdoors or in well-ventilated rooms.

If symptoms of poisoning occur (feeling unwell, loss of consciousness, tiredness, drowsiness), switch off the generator immediately, find an area with fresh air to breathe and then consult a doctor.

2.6.2 Safe operation

Operating the appliance requires the full concentration and ability of the personnel. Persons who are overtired, unable to concentrate or under the influence of alcohol, drugs or medication must not work on or with the appliance.

Persons who are not directly required to operate the appliance must maintain a sufficient safety distance from the appliance.

Before using the appliance, check that it is in perfect condition. If the appliance is damaged, it must not be used. Then secure the appliance against use and repair it or arrange for it to be repaired.

In order not to jeopardise the functionality and safety of the appliance, covers or other components of the appliance must not be removed.

Operating elements must not be operated thoughtlessly or wilfully. This could result in personal injury or damage to the appliance.

Do not use the device in a damp environment and never immerse it in water.

The appliance must be cleaned regularly so that dirt does not accumulate. All operating elements and handles must be kept clean, dry and free of grease.

When the appliance is not in use, it must be parked in such a way that nobody is endangered. Secure the appliance against unauthorised use.

2.6.3 Protective equipment

If the noise emissions resulting from the use of a power generator exceed the limits applicable to this workplace, suitable hearing protection must be worn.

Wearing additional protective equipment reduces the risk of injury:

- Safety shoes with non-slip sole and protective toe cap
- Cut-resistant and non-slip gloves
- Safety helmet

Persons carrying out maintenance work on the appliance are obliged to wear the appropriate protective equipment required for this work.

2.7 Safety during maintenance

2.7.1 General information

Maintenance of the appliance may only be carried out by persons who have completed the appropriate specialised training for this activity.

The maintenance activities and intervals specified in the Operating instructions must be observed.

Workshop equipment appropriate to the type of work is required to carry out maintenance activities.

The following safety precautions must be taken before starting maintenance work:

- Position the device so that the surgical site is easily accessible.
- Set the device to the appropriate operating status.

After completion of maintenance activities:

- Assemble the appliance completely.
- If operating elements or safety devices have been removed, they must be refitted and their function checked.

Persons carrying out maintenance work on the appliance are obliged to wear the appropriate protective equipment required for this work.

2.7.2 Cleaning

Do not use any corrosive, harmful or environmentally damaging substances to clean the appliance. Dispose of cleaning agents in an environmentally friendly manner.

Under no circumstances should high-pressure cleaners, water jets or compressed air be used to clean the appliance.

2.8 Safety instructions for connecting consumers to generators



- Before connecting electrical consumers to a power generator, check that the electrical devices, including the cables and plugs, are undamaged and in good condition.
- It must be ensured that the sum of the outputs of all devices driven by the power generator is within the rated output of the power generator.
- It must be ensured that the load current is within the rated current range of the mains socket.

3 Technical data

General	
Model	Mobile Light Tower MLT 4x400
Article number	9015
Base area of the platform trailer	Approx. 1400 x 950 mm
Floor space in operating condition	Approx. 1650 x 1250 mm
Maximum height in operating mode	4500 mm
Overall height during transport	2650 mm
Net weight	160 kg
Permissible ambient temperature	-5 to +40 °C
Permissible relative humidity	Maximum 85 %

Headlights	
Quantity	4
Light source	Light emitting diodes (LED)
Electrical power	4x 400 W
Luminous flux	4x 53000 lm
Lighting range	4000 m ²

Lighting mast	
Number of telescopes	3
Lifting system	Manual (crank winch)
Mast material	Steel
Maximum wind speed	72 Km/h

Compatible power generator (not included in the scope of delivery)	
Manufacturer	Kernlochbohrer GmbH GmbH
Article number	9010

4 Device description

4.1 Device components



- 1 Headlight bridge
- 2 Headlights
- 3 Lighting mast
- 4 Bracket for crane transport
- 5 Power generator (not included in the scope of delivery)
- 6 Platform trailer
- 7 Wheel (4 pieces - 2 steerable, 2 fixed)
- 8 Interface box
- 9 Spiral cable (connection between interface box and power generator)
- 10 Cable winch of the lighting mast
- 11 Drawbar
- 12 Switch box
- 13 Foot brake
- 14 Outrigger (2 pieces)

- ① The platform trailer can be steered using the drawbar. The steering movements of the drawbar act on the opposite wheels.
- ① The foot brake acts on the two wheels on the side of the drawbar.

4.2 Scope of delivery

The scope of delivery includes the following components:

- Crate with platform trailer, lighting mast and accessories
- Box with 4 spotlights and accessories
- Operating instructions

- ① The Inverter power generator required to operate the appliance must be purchased separately:

Manufacturer:	Kernlochbohrer GmbH
Type:	Si6000E
Article number	9010

- ① Alternatively, the complete system (Inverter power generator and Mobile Light Tower) can also be procured:

Manufacturer:	Kernlochbohrer GmbH
Type:	Si6000E + MLT 4x600
Article number	9020

- ① Kernlochbohrer GmbH offers an extensive range of machines, tools and accessories. The webshop <http://www.kernlochbohrer.com> is available for information and ordering.

5 Special safety measures

5.1 Preparations for operation

The following points must be checked or implemented:

- The immediate vicinity of the appliance must be clean, tidy and free of objects lying around.
- The light mast of the device can be extended up to a height of 4500 mm. The area above the light mast must be open and free of obstacles and overhead cables.
- During operation, the appliance must be placed on a firm, level and horizontal surface so that it cannot tip, slide, roll or fall over.
- The maximum wind speed at which the lighting mast may be extended is 72 km/h.
- The lighting mast must not be extended during thunderstorms.
- Before the light mast is extended:
 - Apply the foot brake.
 - Levelling the appliance.
 - Move all stabilisers to the support position.
- Check the appliance for damage. Do not use a damaged appliance, but repair it or have it repaired.
 - Check the cable insulation. Do not use cables with damaged insulation.
 - Do not operate headlights with a cracked or damaged housing.
 - Only replace defective electrical components with components that are identical to the originals in terms of nominal value and power.

5.2 During operation

The following points must be checked or implemented:

- No other persons may be in the vicinity of the device while the lighting mast is being extended.
- The maximum wind speed at which the lighting mast may be extended is 72 km/h.
- The lighting mast must not be extended, retracted or rotated while the power generator is in operation.
- If the lighting mast gets caught on an obstacle or the winch cable becomes slack when extending or retracting, stop immediately.
- The headlights become very hot during operation. Allow the headlights to cool down before touching them.
- The lighting mast must always be retracted if the wind becomes too strong or a thunderstorm is approaching.
- When the device is not in use, the lighting mast must be retracted.

5.3 Maintenance

The following points must be checked or implemented:

- Troubleshooting and repair of electrical problems on this appliance may only be carried out by persons with the appropriate specialist training.
- The power generator must be switched off before carrying out maintenance work.

6 Operation



The Si6000E Inverter power generator may only be used in accordance with its Operating instructions.

6.1 Assembly

Proceed as follows to install the appliance for the first time:



Remove the platform trolley and accessories from the transport packaging.



Park the platform trailer on a firm, level and horizontal surface and apply the foot brake.



Attach the connecting rod of the steerable wheels to the underside of the platform trailer.



Slide the short end of the two-part longitudinal rod of the steering mechanism under the platform trailer and attach the long end to the steerable wheel.



Position the hole in the short end of the two-part longitudinal rod under the drawbar mount.



Insert the drawbar into the platform trolley holder from above.



Connect the short end of the longitudinal rod of the steering mechanism and the lower end of the drawbar with a hexagon head bolt and washer.

☒



Attach both outriggers to the side of the drawbar on the platform trailer.

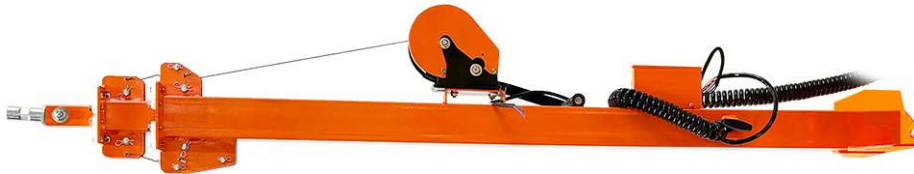
☒



Attach the mounting spigot for the headlight bridge to the top of the lighting column.

**WARNING**

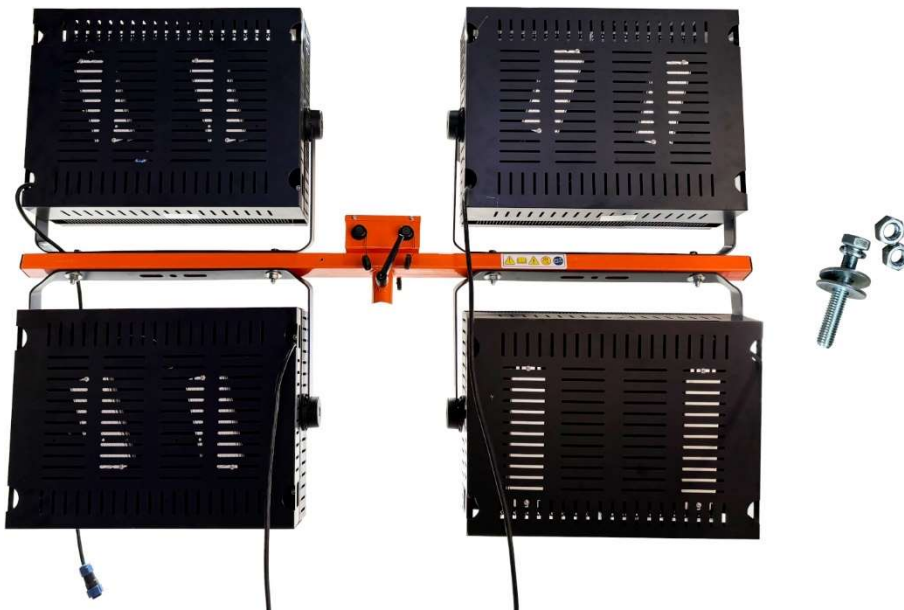
Two people are required for the following assembly step: The first person holds the lighting column and secures it against falling over. The second person attaches the lighting column to the platform trailer.



- ☒ Place the lighting mast on the platform trailer and attach it.
- ↪ The chassis of the Mobile Light Tower is now in this condition:



☒



Attach the headlights to the headlight bridge.

- ☒ Plug the cables of the individual headlights into the connections of the interface box on the headlight bridge and secure with a union nut. The centre socket must remain free; this is used to connect to the power generator.

**WARNING**

Two people are required for the following installation step: The first person places the headlight bridge with the headlights on the lighting column. The second person attaches the headlight bridge to the lighting column and secures it with the clamping lever.

- ☒ Place the headlight bridge with the headlights on the lighting column and tighten with the clamping lever.
- ① Headlight bridge can be freely rotated vertically on the lighting column.



Plug the spiral cable of the light mast (connection to the power generator) into the centre socket of the interface box and secure with a union nut.

- Attach the retaining screw of the spiral cable to the headlight bridge as a strain relief.
- Make the cable winch crank ready for operation: To do this, remove the hexagon nut from the cable winch shaft, remove the crank handle, turn it 180°, replace it and secure it with the hexagon nut.



- Attach brackets for crane transport to the platform trailer.



Place the generator on the platform trailer and secure it.

- ☒ Fasten the retaining screw of the spiral cable to the lighting column (next to the switch box) as strain relief.
- ☒ Plug the spiral cable of the light mast into the power generator.
- ↪ The Mobile Light Tower is now ready for operation.

6.2 Transport

The following points must be observed when transporting the appliance to and from the place of use:

- The device may only be transported when the light mast is fully retracted.
 - The height of the appliance must be taken into account during transport. Avoid collisions.
 - The appliance can be pushed by hand on the drawbar. To do this, bring the stabilisers into the transport position and release the foot brake. After parking, the foot brake must be applied.
- ① The platform trailer can be steered using the drawbar. The steering movements of the drawbar act on the opposite wheels.
- ① The foot brake acts on the two wheels on the side of the drawbar.
- For transport in a transport vehicle, the appliance must be securely lashed on or in the vehicle so that it cannot slip or tip over.
 - The four eyelets on the base frame of the appliance must be used to lash the appliance.
 - The appliance can be lifted with a crane. To do this, attach a suitable aid such as a sling chain or strap sling to the lifting eye on the bracket for crane transport. Keep a safe distance from the suspended load!

6.3 Adjusting the headlights

Each headlight can be individually aligned upwards and downwards. After adjusting the headlights, the screws of the brackets must be tightened again.

The horizontal illumination setting can be adjusted by turning the headlight bridge on the lighting column.

6.4 Extending the lighting mast



WARNING

- The maximum wind speed at which the lighting mast may be extended is 72 km/h.
- The lighting mast may only be extended when the power generator is switched off.
- The mobile light tower must not be moved when the light mast is extended.
- The Mobile Light Tower must not be used if the insulation of the cables to the floodlights is damaged. Bare wires that come into contact with the metal of the frame or the light tower could cause an electric shock.
- No other persons may be in the vicinity of the device while the lighting mast is being extended.
- When extending the light mast, ensure that the spiral cable to the spotlights does not get tangled or caught on any part of the device.
- Risk of entrapment and crushing! Moving parts can crush or cut limbs. Keep hands and fingers away from crushing points when lifting the lighting column.

- ① The device has a cable winch for extending and retracting the lighting mast. The winch crank must be turned to extend and retract.

The cable winch has a brake that operates automatically when the winch handle is released.

Procedure:

- ☒ Place the appliance on a firm, level and horizontal surface so that it cannot tip, slide, roll or fall over.
- ☒ Apply the foot brake.
- ☒ Level the appliance. If necessary, level out by placing wooden or plastic plates under all four wheels and the two stabilisers.
- ☒ Move all stabilisers to the support position.
- ☒ Check winch cables for wear and damage. Do not use a lighting mast with damaged winch cables. Ensure that the winch cables are properly guided in the deflection pulleys.
- ☒ Turn the winch crank and extend the lighting mast to the desired height. When the lighting mast is fully extended, do not turn the winch crank any further.

6.5 Switching on the headlights



The headlights are switched on at the switch box. To do this, open the cover of the switch box.

Switch 2 can be used to switch on two headlights of the headlight bridge. Switches 1 and 3 can be used to switch on one spotlight each.

- ① This switching behaviour means that the illumination can be optimally adapted to the requirements.

- ① The assignment of the headlights to the switches can be changed by the user by reconnecting the headlight cables on the interface box:

Switches 2 and 3 control the two sockets on the side of the interface box where the spiral cable to the power generator is plugged in.

Switch 1 controls the two sockets on the other side of the interface box.

6.6 Retracting the lighting column



- If a part of the lighting column gets stuck during retraction or the winch cable becomes slack before the lighting column is fully lowered, stop retraction immediately!
- If the cable winch is turned further, the sag of the cable increases. This can result in the lighting column suddenly falling downwards when the block is released.
- If the light mast gets stuck when retracting, level the device again and extend the light mast a little. Then continue retracting. If this is not successful, contact Kernlochbohrer GmbH.
- No other persons may be in the vicinity of the device while the lighting mast is being retracted.
- When retracting the lighting column, make sure that the spiral cable to the headlights does not get tangled or caught on any part of the device.
- Risk of entrapment and crushing! Moving parts can crush or cut limbs. Keep hands and fingers away from crushing points when lifting the lighting column.
- The foot brake must not be released or the stabilisers folded in until the lighting mast has been fully retracted. Otherwise the device could tip over when the lighting column is retracted.
- After switching off the headlights, they should first cool down. If the headlights are moved while they are still hot, they may be damaged.

- ① The device has a cable winch for extending and retracting the lighting mast. The winch crank must be turned to extend and retract.

The cable winch has a brake that operates automatically when the winch handle is released.

Procedure:

- Switch off all headlights.
- Lower the lighting mast by turning the winch crank anti-clockwise.

7 Maintenance

7.1 Notes on proper maintenance

Insufficient or improper maintenance can cause malfunctions and impair the operational safety and service life of the appliance. Regular inspection and maintenance is therefore essential. We recommend that maintenance work is only carried out by trained personnel.

The contractually agreed warranty does not release the operator of the device from the obligation to maintain the device in accordance with the manufacturer's instructions from the time of commissioning. Kernlochbohrer GmbH is not liable for damage caused by a lack of maintenance.

7.2 Maintenance and inspection plan

The interval specifications refer to normal operating conditions. In more difficult conditions (heavy dust accumulation, etc.) and longer daily working times, the specified intervals must be shortened accordingly by the operator.

Note on the interval:

The hours (unit h) refer to the operating hours of the appliance.

Interval		Before use	125 h	500 h
Element				
Cable winch	Lubricate			X
Lighting mast	Lubricate			X
Tyres	Check air pressure		X	
Cables	Check insulation	X		
Cable winch	Check wire rope	X		

7.3 Long-term storage

If the appliance is not to be used for 30 days or longer, some preparations must be made. These will help to preserve the components and ensure that the appliance is ready for future use.

- Carry out necessary repairs.
- Carry out the lubrication process.
- Move the appliance to a clean, dry, safe place and place it on a horizontal, level surface.
- Secure the appliance against rolling away: Apply the foot brake and also secure the wheels with wheel chocks.
- Repair paint damage and prevent rust damage.
- Protect tyres and other exposed rubber parts from the weather or use a commercially available protective agent.
- Cover the device.

8 EU Declaration of Conformity

The manufacturer/distributor

Kernlochbohrer GmbH
Geigersbühlweg 52
72663 Großbettlingen
Germany

hereby declares that the following product

Product description: **Mobile Light Tower**
Type: **MLT 4x400**

complies with all relevant provisions of the applicable legal regulations (hereinafter) - including their amendments valid at the time of the declaration. This declaration of conformity is issued under the sole responsibility of the manufacturer. This declaration relates only to the machine in the state in which it was placed on the market; parts and/or modifications subsequently fitted by the end user are not taken into account.

The following legal provisions were applied:

Directive 2014/35/EU	Making available on the market of electrical equipment designed for use within certain voltage limits; Chapter 1 – Article 1: Rated voltage 50 to 1000 V for alternating current
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The following harmonised standards were applied:

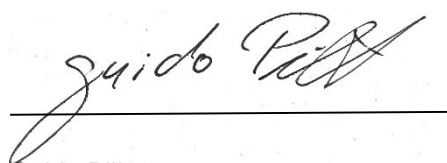
EN 60598-1:2021 + A11:2022	General requirements for luminaires incorporating electric light sources for use on supply voltages up to and including 1 000 V: Classification, labelling, mechanical and electrical construction and photobiological safety.
EN 60598-2-4:2018	Requirements for non-fixed luminaires for general lighting services, excluding handlamps, for filament lamps, tubular fluorescent lamps and other discharge lamps for use at supply voltages up to 250 V.

Name and address of the person authorised to compile the technical documentation:

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Großbettlingen 2025-12-12

Kernlochbohrer GmbH



Guido Pillat

Managing Director / Chief Executive Officer