

Ideen aus der Praxis!

MEIER-BRAKENBERG

Einweichanlagen
Hochdruckreiniger
Tierwaagen

OPERATION MANUAL

LIFTY



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1 Introduction

This operation manual provides you with all information needed for the smooth operation of the Lifty (hereinafter referred to as the machine).

The operation manual must be read, understood and applied by all those entrusted with the operation, maintenance, cleaning and troubleshooting of the machine. This particularly applies for the listed safety instructions.

After studying the operation manual, you know how to

- operate the machine in accordance with safety requirements,
- maintain the machine in accordance with the specifications,
- clean the machine in accordance with the specifications,
- take appropriate action in case of malfunction.

In addition to the operation manual the generally applicable, legal, and other binding regulations governing the prevention of accidents and environmental protection of the country where the machine is used must be observed.

The operation manual must always be available at the place where the machine is used.

1.1 Means of Depiction

References to and direct warnings of hazards in this operation manual are sections which require particular attention and they are marked as follows:



DANGER

This warning characterises dangers with high a degree of risk which, if not avoided, result in death or severe physical injury.



CAUTION

This warning characterises dangers with mean degree of risk which, if not avoided, may result in death or severe physical injury.



ATTENTION

This warning characterises dangers with low degree of risk which, if not avoided, may result in minor or moderate physical injury.

NOTE

This warning characterises dangers with low degree of risk which, if not avoided, may result in damage to property.



The info symbol refers to useful information.

Furthermore, the following means of depiction are used:

- Texts following this marking are part of a list.
- Texts following this marking describe activities which must be carried out in the specified order.
- „“ Texts enclosed in double quotation marks are a reference to other sections or paragraphs.
- , ‘ Texts enclosed in single quotation marks designate the name of a component.
- ON Texts written in capital letters identify a push button/switch on control elements.

Symbols used in this manual

Warnings which identify particular risks are additionally marked as follows:



Warning of sharp-pointed objects

This symbol cautions against risk of injury to fingers and hands caused by sharp-pointed objects.



Mortal danger due to electric current

This symbol cautions against mortal dangers caused by electric current.

Direct mortal danger in case of contact with live components.



Warning of suspended loads

This symbol cautions against dangers when entering areas underneath suspended loads.

1.2 Warranty and Liability

The agreed obligations, the General Terms and Conditions, as well as the Delivery Terms for the machine and the legal provisions valid at the time of the conclusion of the contract do apply.

All specifications and information contained in this operation manual are based on due consideration of valid standards and regulations, latest technology as well as our many years of knowledge and experience.

Warranty and liability claims for personal injury or damage to property are excluded if they are due to one or several of the following causes:

- Use of the machine for any other purpose than the intended use or inappropriate use.
- Improper installation, commissioning, operation, maintenance, and cleaning of the machine.
- Operating the machine in spite of defect safety equipment or improper or inoperable safety and protection equipment.
- Failure to observe the operation manual and information contained in the operation manual relating to the installation, commissioning, operation, maintenance, and cleaning of the machine.
- Deployment of unqualified or untrained personnel.
- Constructional changes to the machine (reconstruction or any other changes to the machine are not permitted without prior written authorisation by Meier-Brakenberg GmbH & Co. KG. In case of non-compliance the machine's EC conformity lapses).
- Improper repair.
- Use of unauthorised spare parts or use of spare parts which do not comply with the technical specifications.
- Event of disaster, external influences, and force majeure.

We reserve the right to make technical changes within the terms of improvement of performance characteristics and further development.

1.3 Copyright

This operation manual is protected by copyright and only intended for internal purposes.

Transfer of the manual to third parties, duplication of any kind and form – even in extracts – as well as utilisation and/or communication of the contents is not permitted without written authorisation by Meier-Brakenberg GmbH & Co. KG, except for internal purposes.

Contraventions are subject to compensation for damages. We reserve the right to assert further claims.

1.4 Warranty Policy

The warranty policy is included in the general terms and conditions of the Meier-Brakenberg GmbH & Co. KG.

1.5 Service / After-sales Service



Please contact our after-sales service for technical information:

Telephone: +49(0)52 62/993 99-0

Moreover, our colleagues are always interested in new information and experience made when using our products. Such information can be very valuable for the improvement of our products.

2 Safety



CAUTION

Failure to observe the following safety advice may have serious consequences:

- Endangerment of persons caused by electrical, mechanical, or chemical influences,
- Failure of important machine functions.

Read the safety advice and hazard warnings contained in this section carefully before commissioning the machine.

Observe the generally valid safety and accident prevention regulations in addition to the advice included in the manual.

The operating company/ operator must observe the applicable national work regulations, operating regulations, and safety regulations in addition to the advice included in this manual. Existing internal works regulation need to be equally observed.

2.1 Intended Use

The operational safety of the machine is only guaranteed when it is used as intended.

The machine is solely intended for opening and closing of manure slides / manure plugs up to 100 KG lifting load.

The machine is not intended for any other purpose except as stated herein. Use other than for the intended purpose shall be deemed to be unauthorised use. In particular it is prohibited to

- lift persons with the machine,
- move other materials or objects than manure slides / manure plugs,
- lift weights exceeding the permitted weight,
- use the machine in potentially explosive areas,
- use the machine on uneven surfaces (max. 50 mm),
- pull or push the machine laterally.

Intended use also includes

- observance of all advice included in the operation manual,
- compliance with the inspection and maintenance intervals,
- use of operating materials and supplies in accordance with applicable safety regulations,
- observance of operating conditions.

Technical specifications as stated in the technical data must be observed without exceptions.



Use the machine for the intended purpose only. Otherwise, safe operation is not guaranteed.

Not the manufacturer, but the operating company of the machine is responsible for any personal injury or damage to property resulting from use other than the intended use!

2.1.1 Constructional Changes to the Machine

Construction and manufacturer approval are based on the Product Safety Act (Produktsicherheitsgesetz ProdSG). Changes, modifications, and additions to the machine are subject to prior written approval by Meier-Brakenberg GmbH & Co. KG.

Failure to comply with this requirement results in the machine's loss of EU conformity. In this event the manufacturer's warranty obligations become void. The same also applies for welding work on load-bearing parts.

Immediately replace components which are not in perfect condition.

Use only original spare parts /wear parts /accessories. These parts are specially designed for the machine. Parts manufactured by third parties provide no guarantee that they have been designed and manufactured to meet the operational demands and safety requirements.

Parts and special equipment not supplied by Meier-Brakenberg GmbH & Co. KG are not approved for use on the machine.

2.1.2 Foreseeable Misuse

Any use of the machine exceeding the intended use and/or other than the intended use may result in serious injury.

- Use the machines only for the intended purpose.
- Do not use the machine for lifting other objects or animals.

2.2 Personnel Requirements

The machine must only be operated, maintained, and repaired by qualified and/or trained persons. These persons must be familiar with this operation manual and act accordingly. Respective authorisations for personnel must be clearly defined.

The manual includes the following qualifications for various areas of operation:

Personnel in training

Personnel in training, such as apprentices or temporary workers, are not fully aware of all the hazards which may occur when operating the machine. These persons are only permitted to operate the machine under supervision of qualified or trained personnel.

Trained personnel

Trained personnel have been instructed in the task entrusted to them and they are informed by the operating company or by qualified personnel about any possible hazards which may occur due to inappropriate behaviour.

Qualified personnel

Based on technical training, knowledge, and experience as well as the knowledge about relevant provisions qualified personnel are capable of carrying out the tasks entrusted to them, and they are capable of identifying and avoiding possible hazards independently.

Certified electrician

Based on technical training, knowledge, and experience as well as the knowledge about relevant standards and provisions a certified electrician is capable of carrying out work on electrical equipment and of identifying and avoiding possible hazards independently.

Certified electricians are trained for the special field of work they are working in, and they are familiar with the relevant standards and provisions.

2.2.1 Responsibilities

Inappropriate handling may result in serious personal injury and damage to property.

Therefore, all work should only be carried out by qualified personnel.

The operating company is responsible for instructing their personnel.

- Personnel are only persons who are expected to perform their work reliably. Persons whose ability to respond is affected by drug abuse, alcohol, medication, or similar are not permitted to operate the machine.
- Comply with the legally required break times.
- All persons operating the machine must confirm by signature that they have read and understood this operation manual.
- Personnel in training is initially only allowed to operate the machine under supervision of qualified personnel. Successful completion of training requires written confirmation.

2.2.2 Obligations of Personnel

Before starting work, all persons entrusted with the operation of the machine are obliged to

- comply with the fundamental regulations on work safety and accident prevention,
- read the operation manual and to confirm by signature that they have understood the safety advice and warnings contained in this operation manual.

2.2.3 Unauthorised Persons

Unauthorised persons who do not meet the qualification requirements for personnel are not aware of the hazards in the working environment.

- Do not allow unauthorised persons to have access to the work area.
- In case of doubt, address these persons and instruct them to leave the work area.
- Suspend work as long as unauthorised persons are in the work area.

2.2.4 Instruction and Training

Personnel must be regularly instructed by the operating company. Record conducted training for better traceability.

Date	Name	Type of training/ instruction	Training / instruction conducted by	Signature

2.3 General Safety Information

- The machine must only be operated or maintained after having read this operation manual.
- Only use this machine as intended (see section „2.1 Intended Use“).
- Do not start the machine if there are any other persons in the danger zone (e.g. driveways).
- Refrain from modes of operation which could impair the safety of persons or the machine.
- Never operate the machine without the respective protection and safety equipment. Never decommission any integrated safety equipment.
- Always keep the machine’s work area clean and tidy to avoid hazards caused by dirt or objects left lying around.
- Do not exceed the technical performance data.
- Keep all safety advice and warnings at the machine in a legible condition and replace them, if necessary.
- Operation and work on the machine must only be carried out by qualified or trained personnel (see section “2.2 Personnel Requirements”).
- Immediately decommission the machine in case of malfunction. Have any malfunction rectified by trained experts or by Meier-Brakenberg GmbH & Co. KG.

- Always keep the operation manual at the machine's site of operation. It must be ensured that all persons who are working with or on the machine can consult the operation manual at any time.
- Always lay power supply lines in a way to avoid tripping hazards.
- The machine must only be lifted by two persons.
- Be careful when lifting weight. Rise from your knees as you lift the load.

2.4 Safety Measures for Environmental Protection

When working with the machine observe the regulation with regard to waste prevention and proper waste processing or disposal.

In particular, during installation or maintenance work it must be ensured that groundwater endangering substances, such as oils, cooling liquids, solvent-containing cleaning agents or the like do not contaminate the ground or reach the sewage system. Such substances must be collected, kept, and transported in suitable containers and they must be disposed of in compliance with national legislation.

2.5 Special Hazards Information

2.5.1 Used Symbols on the Machine



Warning of sharp-pointed objects

This symbol cautions against risk of injury to fingers and hands due to cuts or piercing.



Keep all safety advice and warnings at the machine in a legible condition and replace them, if necessary.

2.5.2 Dangers due to Electrical Energy



DANGER



When touching live parts there is the danger of electric shock.

- Always keep electrical components closed.
- Work on electrical equipment must only be carried out by certified electricians who are specially trained for working on electrical equipment and who can identify and avoid dangers.
- Observe five safety rules:
 1. Disconnect
 2. Secure against restarting
 3. Determine voltage free status
 4. Earth and short-circuit
 5. Cover or block live parts



DANGER



Electric shock may cause secondary accidents due to fright (e. g. fall).

- Observe the five safety rules when working on electrical equipment.
 - Have work on electrical equipment carried out only by certified electricians.
-
- Switch the machine off, disconnect from power supply, and secure against inadvertent restart before working on the machine's electrical equipment.
 - Work on electrical equipment must only be carried out by competent certified electricians – e.g. the company electrician.
 - Regularly check electrical equipment for defects such as loose connections or scorched cables. Have defects removed immediately.
 - Have electrical equipment and stationary electrical equipment checked by a certified electrician at least once every 4 years.
- Stationary electrical equipment is fixed equipment or equipment which do not have any carrying fixtures and which mass is too high to be moved easily. This also applies for electrical equipment which is temporarily fixed and which is operated using moveable electrical connection cables.
- Have mobile electrical equipment, connection cables including plugs and extension leads including plug connection, if used, checked by a certified electrician at least once every 6 months.

Mobile equipment is such equipment which can be operated while carrying voltage and at the same time in accordance with the standard and intended use. This also includes the Lifty.

- Modifications carried out after the tests must comply with DIN EN 60204-1 or VDE 0701-0702, where applicable.
- Regularly check all safety equipment of the machine for their function.
- Only use original fuses.
- Always keep the control panel closed.
- Damaged casings and damaged lines must be immediately repaired or replaced before starting the machine.

2.5.3 Hazards caused by the Use of Incorrect Parts

Incorrect or defect spare parts may lead to damages, malfunction, or complete failure and they can impair the safety.

- Only use original spare parts.
- Purchase spare parts from Meier-Brakenberg GmbH & Co. KG. Necessary information on spare parts is included in the parts lists or in section „1.5 Service / After-sales Service“.

2.6 Personal Protective Equipment

Wear personal protective equipment to minimise health risks when operating the machine.

- Always wear the necessary protective equipment during operation which is required for the work carried out.
- Observe the instructions which refer to personal protective equipment in the working area.

The symbols have the following meaning:



Protective workwear

Protective workwear includes close-fitting clothing with low tear strength, tightly fitting sleeves and does not have any protruding parts. Protective workwear mainly serves to protect against getting caught by moving machine parts.

Do not wear any rings, chains, or other jewellery.



Safety footwear

Wear anti-slip safety footwear which provides protection against injury due to heavy, falling objects or against slipping on low-grip surfaces.



Protective gloves

Wear protective gloves to protect your hands against friction, graze, cuts, or deep wounds, as well as against contact with hot surfaces or chemical substances.

The operating company must provide protective equipment which must comply with the applicable requirements.

Moreover, national provisions and, where appropriate, internal instructions of the operating company must be observed.

2.7 Safety and Protective Equipment

- Each time before switching on the machine check that all safety and protective equipment is correctly installed and in operational condition.
- During operation it is prohibited to bypass, remove, or otherwise decommission any safety and protective equipment.
- Protective equipment may be removed only during shutdown times and after protection against restart of the machine.
- Regularly check all protective equipment of the machine for proper function.

2.8 Advice for Emergency Cases

Preventive measures

- Always be prepared for accidents or fire.
- Keep first aid equipment (first aid kit, blankets etc.) and fire-extinguishing agents in reach and ready to hand.
- Familiarise personnel with accident reporting systems, first aid equipment, fire extinguishing agents and devices, as well as emergency facilities.
- Keep access routes clear for rescue vehicles.

Measures in case of accidents

- Rescue persons from the danger zone.
- In the event of cardiac and/or respiratory arrest initiate first aid measures immediately.
- In case of personal injury inform the person responsible for first aid and an emergency physician or emergency rescue service immediately.
- Clear access routes for rescue vehicles. Where appropriate, second someone to show rescuers the way.
- Extinguish burning oil/grease with a CO₂-extinguisher or a powder fire extinguisher.
- Extinguish fire inside the electric control with a CO₂-extinguisher.

2.9 Obligations of the Operating Company

The machine is used for commercial operation. The machine's operating company is therefore subject to the statutory obligations governing occupational safety.

In addition to the safety advices included in this operation manual the applicable safety, accident prevention, and environmental protection provisions relevant for the machine's range of applications must be complied with. The following applies in particular:

- The operating company must ensure that the machine is only used for the intended purpose (see section „2.1 Intended Use“).
- The operating company must ensure that the operation manual is always complete and in a legible condition at the site of use of the machine.
- The operating company must clearly regulate and specify the responsibilities for installation, commissioning, operation, maintenance, and cleaning.
- The operating company must ensure that only sufficiently qualified and instructed personnel uses the machine.
- The operating company must ensure that all personnel handling the machine have read and understood the contents of the operation manual.
Moreover, the operating company must regularly and traceably train the personnel and inform them about any dangers.
- The operating company must provide the personnel with personal protective equipment and must ensure that the protective equipment is used.
- The operating company must ensure that no persons operate the machine whose ability to respond is impaired by drug misuse, alcohol, medication, or the like.

Moreover, the operating company is responsible that the machine is always in a technically impeccable state. Therefore, the following applies:

- The operating company must ensure the observance of the maintenance intervals, as specified in this operation manual.
- The operating company must ensure that all safety equipment is regularly checked for functionality and completeness.
- The operating company must regularly check that all safety advice and warnings attached to the machine are in a clearly legible condition and permanently remain on the machine.

3 Description of the Machine

3.1 Overviews

3.1.1 Overview Functional Components



- | | | | |
|---|-------------------------|---|--------------------------|
| 1 | Handle | 3 | Battery holder |
| 2 | Control panel up / down | 4 | Fuse overload |
| 5 | Receptacle for hook | 6 | Rear support (removable) |
| 7 | Hook | | |

3.1.2 Type Plate



The type plate is located under the control panel housing.

3.2 Functional Description

The machine is used for opening and closing manure slides and manure plugs up to 100 kg gross load.

The machine consists of a handle, drive, threaded rod with transducer, protective cover for the drive, housing for the control panel, a control panel and three supports of which the rear one is removable.

The motor under the protective cover drives the threaded rod at the touch of a button by the operator.

The 18V battery is inserted into the battery holder.

The operator places the machine over a manure slider or manure plug.

The hooks in optional length are attached to the hook receptacle of the Lifty.

The hook is inserted into the receptacle of the manure slider / manure plug.

The UP arrow key on the control panel moves the manure slide / manure plug upwards.

The DOWN arrow key on the control panel moves the manure slide / manure plug downwards.

Lifting or lowering of the manure slides / manure stoppers may only be carried out when the hooks are absolutely vertical and a straight pull is possible. Hold the grip piece of the threaded rod with one hand when operating the arrow keys to prevent it from turning.

Remove the battery after working with the machine so that it does not become deeply discharged!

3.3 Technical Data

3.3.1 Mechanical Data

Length	345 mm
Width	285 mm
Height	980 mm
Weight	6.32 kg
Safety class	IP 20

3.3.2 Electrical Data

(Battery optional)

Battery voltage	18 V DC
Battery capacity (optional)	2 Ah
Operating voltage	24 V
Operating current	1.5 A
Lifting capacity	100 KG

3.3.3 Ambient Conditions

Permissible ambient temperature during operation	+10 °C up to +40 °C
Permissible ambient temperature during storage	+5 °C up to +40 °C
Permissible humidity	80 % rel. humidity
Operation in potentially explosive areas is prohibited.	

3.3.4 Equipment / Scope of Delivery

Design versions

The machine is available only in the version for 18V Makita batteries (not included).

Delivered standard equipment

Scope of delivery includes:

- Lifty lifting equipment (without battery)
- Three hooks with different length (2x 250mm 1x750mm)

Delivery status

The machine with accessories is delivered in a box. The box in which the machine is delivered is padded with cushioning filler.

Special accessories

Optionally supplied with:

- Makita charger with battery 18V 2.0Ah
- Makita battery 18V 2.0Ah (without charging device)

4 Transportation and Storage

The machine is delivered to the customer either by the Meier-Brakenberg GmbH & Co. KG or by an authorised carrier.

4.1 Check on Acceptance by the Recipient

On arrival of the machine the customer must check the machine for visible damages caused during transportation.

- Report transport damages immediately to the deliverer.

4.2 Packaging

The route of transportation is often decisive for the type of packaging. Unless otherwise contractually agreed, packaging complies with HPE packaging standards specified by the federal association of wooden packing materials, pallets, and export packaging (Bundesverband Holzmittel, Paletten, Exportverpackung e.V.) and the association of German engineering companies (Verein Deutscher Maschinenbauanstalten).

4.3 Information on Risks during Transportation



CAUTION



During the transportation of the machine the following special risks may occur:

- Using other load handling devices than specified herein may lead to serious personal injury.
 - Protruding edges may lead to severe bruising or lacerations.
-
- Please also read chapter „2 Safety“.
 - Transportation of the machine or its components must only be carried out by appropriately qualified and instructed personnel (forklift driver/crane operator with certificate of competence) and in compliance with all safety instructions.
 - When selecting suitable lifting equipment or load handling devices always consider the weight of the heaviest component.

- Wear protective workwear, safety footwear, and safety gloves during work.
- Always assign a third person to secure transport routes.
- Make sure that there are no persons on the route or underneath suspended loads.
- Always lift the machine slowly and carefully to ensure stability and safety.
- Do not reach into the threaded rod. Make sure that the hood of the threaded rod is attached.
- Make sure to rise from your knees as you lift the load.

4.4 Temporary Storage

In case the machine will not be installed directly after delivery, the machine must be stored carefully in a safe place. The machine must be stored in a place protected against cold, humidity, dirt, and mechanical influences.

Please see section „3.3.33 Ambient Conditions“ to view the recommended storage conditions of the machine.



No liability accepted for damages caused by improper storage!!

Remove the battery after working with the machine so that it does not become deeply discharged!

5 Assembly

The machine is delivered fully assembled.



CAUTION



The threaded rod poses danger of injury to fingers and hands!

Movement of the threaded rod poses danger of injury by bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the wheels and the roll.
- Keep unauthorised persons away from the working area.
- Make sure that the hood of the threaded rod is in place.



CAUTION

Risk of injury due to loss of stability!

The loss of stability may lead to serious risk of injury.

- Footprints must be level.
- Avoid lateral pushing and pulling of the machine.

6 Commissioning



CAUTION



The threaded rod poses danger of injury to fingers and hands!

Movement of the threaded rod poses danger of injury by bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the wheels and the roll.
- Keep unauthorised persons away from the working area.
- Make sure that the hood of the threaded rod is in place.

6.1 Safety Measures before Commissioning

The following actions must be carried out before commissioning or restart of the machine:

- Check and ensure that all safety equipment is installed and working.
- Check the machine for visible damages; rectify any identified defects immediately or report them to the supervisor – the machine must only be operated in perfect condition.

6.2 Battery Charging

- Before using the machine for the first time, fully charge the battery.

7 Operation

7.1 After Completion of Work

Remove the battery after working with the machine so that it does not become deeply discharged!

7.2 Safety Measures in Normal Operation

- It is not permitted to remove or decommission any safety equipment during operation of the machine.
- The operating personnel must make sure that there are no unauthorised persons in the machine's work area.
- The operating personnel must practise manoeuvring and moving the machine because it requires user sensitiveness.

Carry out the following control actions once daily:

- Check the machine for externally visible damages.
- Check the functions of safety equipment.



CAUTION



The threaded rod poses danger of injury to fingers and hands!

Movement of the threaded rod poses danger of injury by bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the wheels and the roll.
- Keep unauthorised persons away from the working area.
- Make sure that the hood of the threaded rod is in place.



CAUTION

Unexpected start of drives causes risk of injury.

There is a risk of injury from the rotating threaded rod due to unexpected or unintentional start-up.

- - Never lock the UP/DOWN threaded rod drive button.



ATTENTION

Risk of injury caused by falling!

Movement of the machine poses risks of injury due to falling.

- The machine must be operated by instructed personnel only.

8 Malfunction



CAUTION



The threaded rod poses danger of injury to fingers and hands!

Movement of the threaded rod poses danger of injury by bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the wheels and the roll.
- Keep unauthorised persons away from the working area.
- Make sure that the hood of the threaded rod is in place.

8.1 Malfunctions and Corrective Measures

Malfunction	Cause	Corrective Measure
No function	Control switch defective	Replace the switch.
	Fuse overload tripped	Push the fuse back in.
	Motor defective	Notify customer service.
Motor runs but no movement	Threaded rod dirty	Clean and lubricate the threaded rod.
	Overload	Reduce load.

9 Maintenance



DANGER



When touching live parts there is danger of electric shock.

- Always keep electrical components closed.
- Work on electrical equipment must only be carried out by certified electricians who are specially trained for working on electrical equipment and who can identify and avoid dangers.
- Observe five safety rules:
 1. Disconnect
 2. Secure against restarting
 3. Determine voltage free status
 4. Earth and short-circuit
- 1. Cover or block live parts



CAUTION



The threaded rod poses danger of injury to fingers and hands!

Movement of the threaded rod poses danger of injury by bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the wheels and the roll.
- Keep unauthorised persons away from the working area.
- Make sure that the hood of the threaded rod is in place.

9.1 Safety Measures during Maintenance

Carry out prescribed maintenance work, such as cleaning, lubrication, service, and inspections in due time.

Observe the following points when carrying out maintenance work:

- Secure the machine against unexpected restarting by removing the battery.
- Ensure that there are no unauthorised persons in the machine's work area.

- Squat down instead of bending down when working on components in low position. Maintain an upright and straight posture when working on components mounted in high positions.
- Replace any faulty machine parts immediately.
- Use only original spare parts

Carry out the following works after completion of maintenance work and before starting the machine:

- Ensure that all bolt connections which have been unfastened are fastened securely again.
- Ensure that all protective equipment and covers which have been removed are placed back in proper position.
- Ensure that all used tools, materials, and other equipment have been removed from the work area.
- Clean the work area.
- Ensure that all safety equipment of the machine functions correctly.

9.2 Inspection and Maintenance

9.2.1 Maintenance Intervals

Maintenance Position	Maintenance Worker
Complete machine	Visual check
Complete machine	Cleaning
Threaded rod	Check and lubricate regularly

9.2.2 Preparatory Measures

- Secure the machine against unexpected restarting by removing the battery.

9.2.3 Maintenance - daily

9.2.3.1 Visual Check

- Check the machine for
 - mechanical damages,
 - dirt deposits, and
 - unusual noise.
- Report damages immediately to the supervisor.

9.2.3.2 Cleaning

- Clean the machine daily or according to the degree of soiling with a cloth.

10 Decommissioning and Disassembly



CAUTION



The threaded rod poses danger of injury to fingers and hands!

Movement of the threaded rod poses danger of injury by bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the wheels and the roll.
- Keep unauthorised persons away from the working area.
- Make sure that the hood of the threaded rod is in place.

10.1 Disposal



- Dispose of the machine in an environmentally friendly manner and separated by material.
- With regard to the disposal of batteries, contact Meier-Brakenberg GmbH & Co. KG, if applicable.

11 Annex

11.1 EU Declaration of Conformity

You will find the EU Declaration of Conformity for the machine on the following pages.

EU Declaration of Conformity

(Original)

We, company

Meier-Brakenberg GmbH & Co. KG

Brakenberg 29

32699 Extertal

Germany

hereby declare that the machine

Lifty

for opening and closing of manure slides / manure plugs complies with the essential safety requirements included in the machine directive 2006/42/EG.

Other directives and applied standards:

- EN ISO 12100
- Low Voltage Directive 2006/95/EG

Brakenberg, 09.01.2023

Wolfgang Meier

(Managing Director)