

OPERATION MANUAL

(Original Operation Manual)



Porky's Pick Up XL

Meier-Brakenberg GmbH & Co. KG

Brakenberg 29

32699 Extertal

Germany

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

Telefax +49(0)52 62/993 99-3

E-mail info@meier-brakenberg.de

Internet www.meier-brakenberg.de

Keep for future use!

Machine/device: Porky´s Pick Up XL
Year of Manufacture: 2017

Version 01

Issue: January 2017

© Meier-Brakenberg GmbH & Co. KG

This operation manual and any illustrations contained therein are protected by copyright. Any use beyond the limits of copyright law without the prior written consent of the publisher is inadmissible and liable to prosecution. This applies especially for copies, translations, microfilming, storage, and processing in electronic systems.

Contents

1	Introduction	Fehler! Textmarke nicht definiert.
1.1	Means of Depiction.....	Fehler! Textmarke nicht definiert.
1.2	Warranty and Liability.....	4
1.3	Copyright.....	5
1.4	Warranty Policy.....	5
1.5	Service / After-sales Service	5
2	Safety.....	7
2.1	Intended Use.....	7
2.1.1	Constructional Changes to the Machine	8
2.1.2	Foreseeable Misuse.....	8
2.2	Personnel Requirements	9
2.2.1	Responsibilities.....	10
2.2.2	Obligation of Personnel.....	10
2.2.3	Unauthorised Persons	10
2.2.4	Instruction and Training	11
2.3	General Safety Information	11
2.4	Safety Measures for Environmental Protection	12
2.5	Special Hazards Information.....	12
2.5.1	Used Symbols on the Machine	12
2.5.2	Dangers due to Electrical Power	13
2.5.3	Hazards caused by the Use of Incorrect Parts.....	14
2.6	Personal Protective Equipment	15
2.7	Safety and Protective Equipment	16
2.8	Advice for Emergency Cases	16
2.9	Obligation of the Operating Company.....	17
3	Description of the Machine	19
3.1	Overviews	19
3.1.1	Overview Functional Components	19
3.1.2	Overview Control Panels	21
3.1.3	Type Plate	22
3.2	Functional Description.....	23
3.3	Technical Data.....	24
3.3.1	Mechanical Data.....	24
3.3.2	Electrical Data.....	24
3.3.3	Ambient Conditions.....	24
3.3.4	Equipment/Scope of Delivery.....	25

4	Transportation and Storage	27
4.1	Check on Acceptance by the Recipient	27
4.2	Packaging	Fehler! Textmarke nicht definiert.
4.3	Information on Risks during Transportation.....	27
4.4	Temporary Storage	28
5	Assembly	Fehler! Textmarke nicht definiert.
6	Commissioning.....	Fehler! Textmarke nicht definiert.
6.1	Safety Measures before Commissioning.....	31
6.2	Charging the Battery	31
7	Operation	Fehler! Textmarke nicht definiert.
7.1	Safety Measures in Normal Operation	33
7.2	Switching the Machine on/off.....	35
7.3	Assembly/Disassembly Footboard (optional)	36
7.4	Moving the Machine	36
7.5	Loading/Unloading of Pig Carcasses	37
7.6	Finish Work	39
8	Malfunction	41
8.1	Malfuctions and Corrective Measures	41
8.2	Replacement Fuse F1	42
8.3	Replacement Fuses F2 – F5.....	44
9	Maintenance	47
9.1	Safety Measures during Maintenance	47
9.2	Inspection and Maintenance	49
9.2.1	Maintenance Intervals.....	49
9.2.2	Preparatory Measures	49
9.2.3	Maintenance – daily	49
9.2.3.1	Visual Check.....	Fehler! Textmarke nicht definiert.
9.2.3.2	Cleaning.....	50
9.2.4	Maintenance – monthly	50
9.2.4.1	Tensioning and Lubrication of Drive Chain	50
9.2.4.2	Check of Tyre Pressure	51
9.2.5	Special Maintenance Intervals.....	51
9.2.5.1	Charge Battery.....	51
10	Decommissioning and Disassembly.....	53
10.1	Disposal.....	Fehler! Textmarke nicht definiert.
11	Annex	55
11.1	EU Declaration of Conformity	55

1 Introduction

This operation manual provides you with all information needed for the smooth operation of Porky's Pick Up XL (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 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 loading and unloading pig carcasses and the transport of pig carcasses up to a maximum weight of 300 kgs.

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

- transport persons with the machine,
- load or transport other materials or animals except for pig carcasses,
- load or transport 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,
- placing the hood to cover the rollers after use.

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 the without 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 the transport of other animals or objects other than pig carcasses.

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 has 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 that they have understood the safety advices 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 (see section „3.3 Technical Data“).
- Keep all safety advice and warnings at the machine in a legible condition and replace them, if necessary.
- Operation of and work with the machine must only be carried out by qualified or instructed 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 energy supply lines in a way to avoid trip hazard.
- 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 Power



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 Porky's Pick Up XL.

- Modifications carried out after the tests must comply with DIN EN 60204-1.
- 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 in the electrical control system with a CO₂-fire 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:

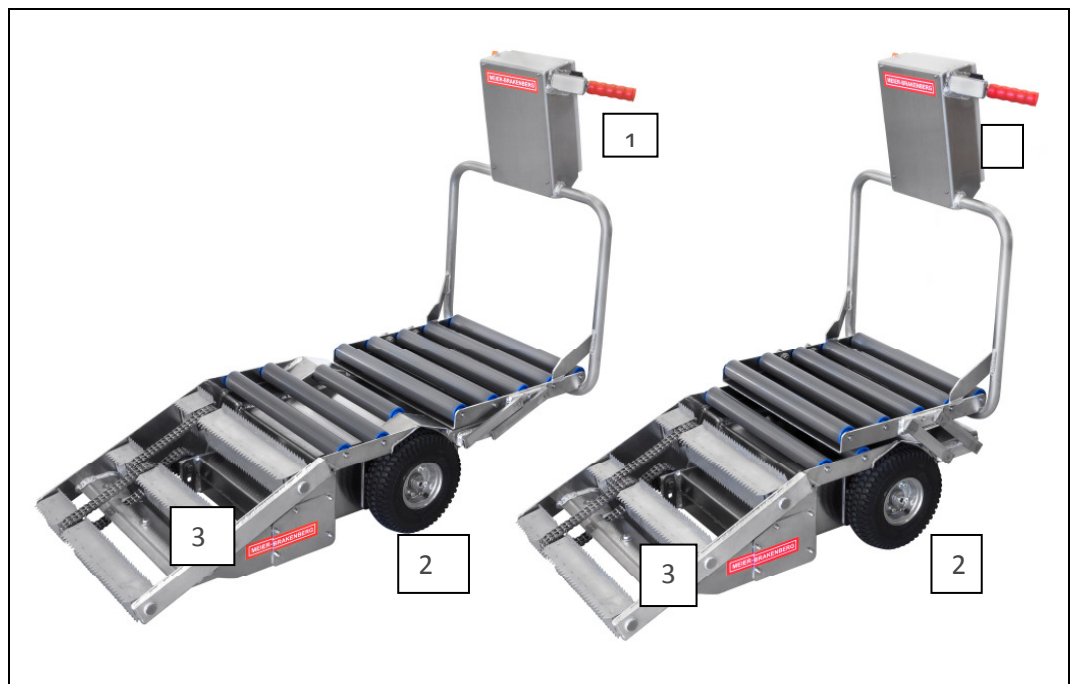
- The operating company must ensure the observance of the maintenance intervals, as specified in this operation manual.
- The operating company must ensure that all safety equipment are regularly checked for their functionality and completeness.
- The operating company must regularly check that all safety advices 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

Side view



- 1 Handle
- 2 Drive wheel

- 3 Roller

Rear view



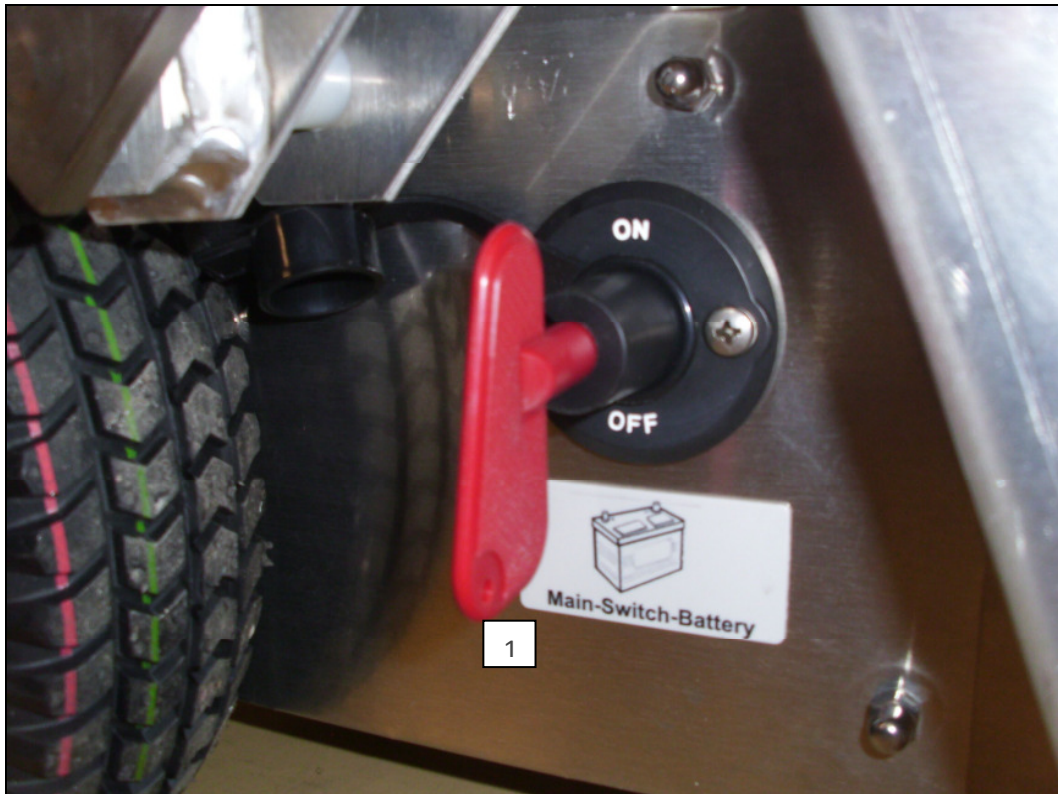
- 1 Control panel
- 2 Handles

- 3 Transport rollers

3.1.2 Overview Control Panels



- | | | | |
|---|-----------------------------|---|--------------------------------------|
| 1 | Button ROLLER DRIVE UP/DOWN | 4 | Connector socket charging device |
| 2 | Key switch POWER ON/OFF | 5 | Drive lever MACHINE FORWARD/BACKWARD |
| 3 | Charge display battery | | |



1 Main switch (with key)

3.1.3 Type Plate



The type plate is located beneath the control panel housing.

3.2 Functional Description

The machine is used for loading and unloading pig carcasses as well as for the transport of pig carcasses weighing between 40 and 300 kgs.

The machine consists of two drive wheels, rollers, the protective hood to cover the drive unit, the housing for the main fuse, a control panel and two handles.

Motors beneath the protective cover propel the drive wheels or rollers and the operator activates them by keystroke.

The operator moves the machine to the pig carcass either from head or tail end. Standstill causes the deactivation of ready-to-move status after approx. 15 minutes.

The operator moves the machine with upwardly rotating rollers beneath the pig carcass until the pig carcass is completely on the machine's transport platform.

The operator transports the pig carcass on the machine to a loading ramp or the disposal place for pig carcasses. The operator then removes the machine from underneath the pig carcass by activating the downward rotation movement of the rollers.

3.3 Technical Data

3.3.1 Mechanical Data

Length (fold in / fold out position)	1 140 / 1 420 mm
Width	610 mm
Height	1 100 mm
Weight	80 kg
Clearance height	50 mm
Engine brake	4 Nm
Incline max.	15 °
Chassis	Aluminium
Tyre inflation pressure drive wheel	2.5 bar
Safety class charging device	IP 42

3.3.2 Electrical Data

Charging device	
Voltage (primary)	230 V AC
Voltage (secondary)	24 V DC
Current rating (secondary)	2 A
Safety class	IP 42
Operation voltage	24 V DC
Output travel drive	400 W
Output roller drive	250 W
Fuse F1 (release current)	40 A
Fuse F2 (release current)	20 A
Fuse F3 (release current)	3 A
Fuse F4 (release current)	3 A
Fuse F5 (release current)	3 A
Fuse F6 (release current)	5 A

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 in design version with 10 Ah rechargeable batteries.

Delivered standard equipment

Scope of delivery includes:

- one charging device
- two keys for key switch POWER ON/OFF
- one key for main switch
- two spare fuses 3 A

Delivery status

The machine including accessories is delivered on europallet. The machine is secured on the europallet by means of foil and fastener straps.

Optional equipment

Optional delivery of:

- Exchangeable battery system with 22 Ah rechargeable batteries.

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 (for weights please see section „3.3 Technical Data“).

- 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 touch the rollers. Make sure that the roller hood is installed.
- The machine must be removed from the pallet by two persons.
- 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 „3.3.3 Ambient Conditions“ to view the recommended storage conditions of the machine.



No liability accepted for damages caused by improper storage!

Put the protective cap back on the main switch after working with the machine to protect the switch against humidity, dust, and dirt.

5 Assembly

The machine is delivered fully assembled.



CAUTION



The rollers pose danger of injury to fingers and hands!

Movement of the rollers pose 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 rollers.
- Keep unauthorised persons away from the working area.
- Make sure that the roller hood is installed.



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 rollers pose danger of injury to fingers and hands!

Movement of the rollers poses danger of injury due to bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the rollers.
- Keep unauthorised persons away from the working area.

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 a technically perfect condition.

6.2 Charging the Battery

- The battery must be fully charged before initial use of the machine (see „9.2.5 Special Maintenance Intervals“).

7 Operation

7.1 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

Risk of injuries caused by being overrun!

Movement of the machine causes risks of being overrun.

- The machine must be operated by instructed personnel only.



CAUTION

The rollers pose danger of injury to fingers and hands!

Movement of the rollers pose danger of injury due to bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!



- The machine must only be operated by instructed personnel.
- Do not touch the rollers.
- Keep unauthorised persons away from the working area.

**CAUTION****Unexpected start of drives causes risk of injury.**

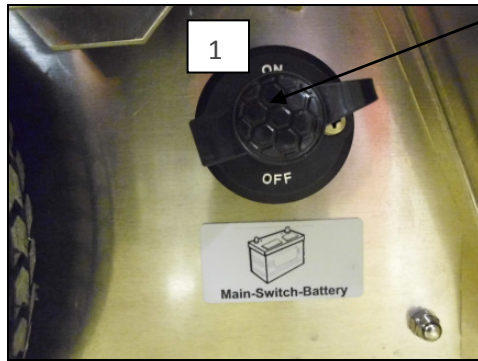
The unexpected or unintended start poses a risk of injury due to rotating rollers or being overrun.

- Never lock the pushbutton of the roller drive UP/DOWN or the drive lever FORWARD/BACKWARD.

7.2 Switch the Machine on/off



The main switch is located in front of the right drive wheel.



- Remove the protective cap (1) before switching on.
- Insert the key.

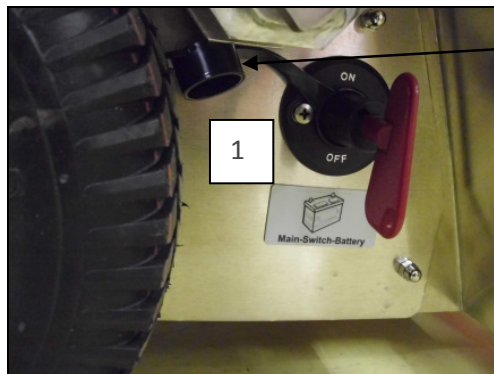


Switch-on

- Set main switch to ON.

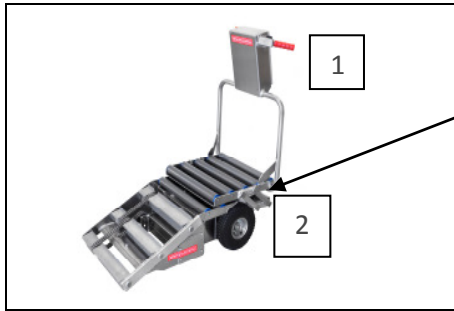
Switch-off

- Set main switch to OFF.

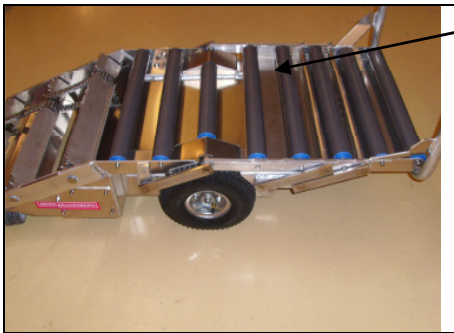


- Remove key.
- Place back the protective cap (1) after switch-off.

7.3 Fold in / fold out Mechanism



- Lift the machine slightly with your hands by using the red handles (1) and pull the top part mounted on swivel joints (2) backwards.



- The fold out mechanism is completely extended when an almost even level surface is reached (see illustration).
- For folding in, lift the machine slightly with your hands by using the red handles and push the top part mounted on swivel joints forward.

7.4 Moving the Machine

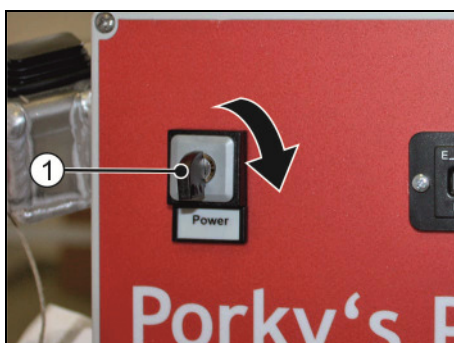


CAUTION

Risk of injuries posed by being overrun!

Movement of the machine poses risks of injury due to being overrun.

- The machine must be operated by instructed personnel only.
- Monitor the danger zone.
- Keep unauthorised persons away from the work area.



- Set key switch POWER ON/OFF (1) to position ON (see illustration).



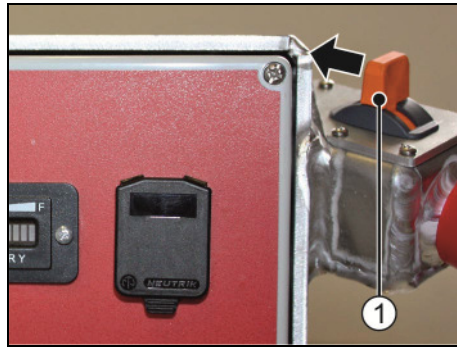
Standstill causes deactivation of ready-to-move status after approx. 15 minutes. In this event, the key switch POWER ON/OFF must be switched-off first and then switched back on to continue machine operation.

- Stand behind the machine (optionally on the footboard) and hold both handles.



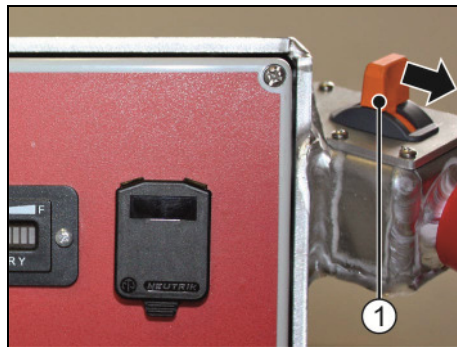
The drive lever MACHINE FORWARD/BACKWARD is in centre position. In centre position the machine brakes automatically.

The drive lever MACHINE FORWARD/BACKWARD controls the travel speed. Travel speed is faster, the further the drive lever MACHINE FORWARD/BACKWARD is moved towards end position.



Moving forwards

- Press drive lever MACHINE FORWARD/BACKWARD (1) with your thumb slowly in the direction of arrow until reaching the requested speed.
- Release drive lever MACHINE FORWARD/BACKWARD (1) to brake.

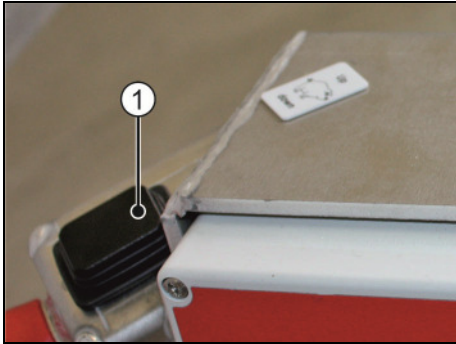


Moving backwards

- Pull the drive lever MACHINE FORWARD/BACKWARD (1) slowly with your thumb in the direction of arrow until reaching the requested speed.
- Release drive lever MACHINE FORWARD/BACKWARD (1) to brake.

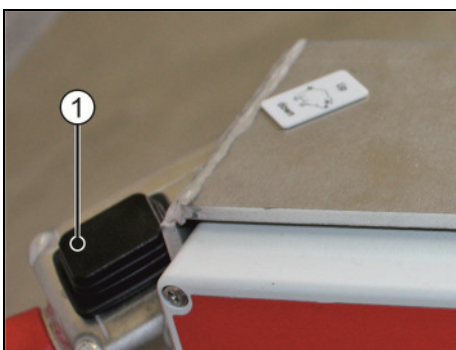
7.5 Loading and Unloading of Pig Carcasses

- Remove the hood from the rollers.
- Approach the pig carcass either from the head end or the tail end.



– Operate the button ROLLER DRIVE UP/DOWN and set to UP position. Keep the button in that position

- until the entire pig carcass is on the transport platform.
- Move the machine to the disposal site or loading ramp.



– Operate the button ROLLER DRIVE UP/DOWN and set to DOWN position. Keep the button in that position

- until the pig carcass is completely removed onto the intended place of disposal or loading ramp.
- Reattach the hood to cover the rollers.

7.6 Finish Work



For temporary storage after use refer to section „4.4 Temporary Storage“.

- Turn off key switch POWER ON/OFF.
- Remove the key from the key switch POWER ON/OFF and keep the key in a safe place.
- **Turn main switch to “OFF” position. Otherwise longer periods of non-use may lead to deep discharge of rechargeable batteries. Check the state of charge regularly and recharge batteries when indicated.**
- Remove the key from the main switch and keep the key in a safe place.
- Close the main switch with the protective cap.

8 Malfunction



CAUTION



The rollers pose danger of injury to fingers and hands!

Movement of the rollers poses danger of injury due to bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the rollers.
- Keep unauthorised persons away from the working area.
- Make sure that the hood is attached to cover the rollers.

8.1 Malfunctions and Corrective Measures

Malfunction	Cause	Corrective Measure
No battery voltage	Main switch off	Switch on main switch
	Fuse F1 defective	Replace fuse F1 (see chapter „8.2 Replacement Fuse F1“)
	Batteries defective	Inform after-sales service
Battery indicator not working	Battery indicator defective	Inform after-sales service
Drive wheels not working	Charging device still connected	Remove charging device
	Drive lever MACHINE FORWARD/BACKWARD defective	Inform after-sales service
	Fuse F5 defective	Replace fuse F5 (see chapter „8.3 Replacement Fuses F2 – F6“)

Malfunction	Cause	Corrective Measure
Rollers not working	Button ROLLER DRIVE UP/DOWN defective	Inform after-sales service
	Fuse F2 defective	Replace fuse (see chapter „8.3 6“)
	Fuse F4 defective	Replace fuse F4 (see chapter „8.3 Replacement Fuses F2 – F6“)
Roller motor brake not working	Fuse F3 defective	Replace fuse F3 (see chapter „8.3 Replacement Fuses F2 – F6“)

8.2 Replacement Fuse F1

- Switch off the machine (see chapter „7.2 Switch the Machine on/off“).
- Secure the machine against unexpected restarting by removing the key.

NOTE

Fuses protect electric circuits against overload.

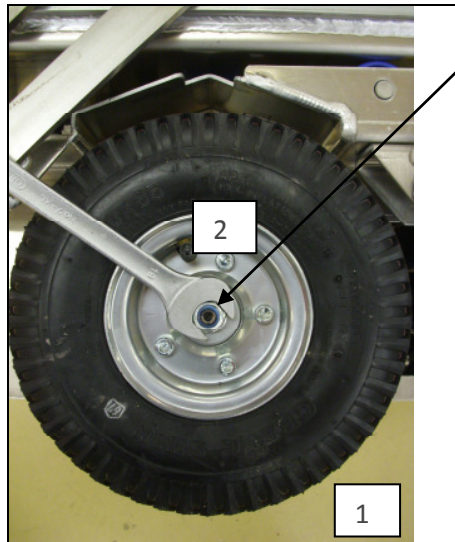
- Always use fuses suitable for the specified tripping current.



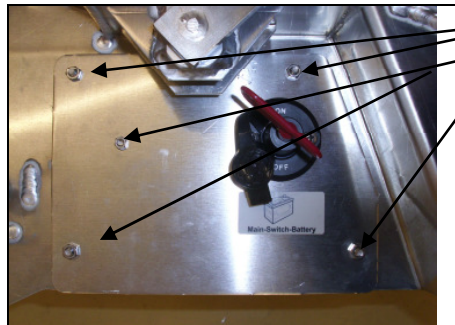
The illustration shows the right side drive wheel. Proceedings on the left side drive wheel are identical.

- Lift the machine slightly to allow the drive wheel to rotate freely.
- Place suitable object underneath the machine to prevent overturning when removing the drive wheel.

8.2 Replacement Fuse F1

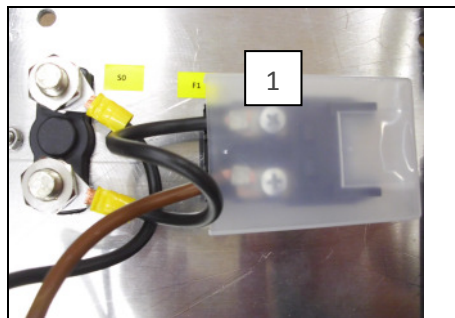


- Remove the bolt (2) of drive wheel (1).
- Remove drive wheel (1).

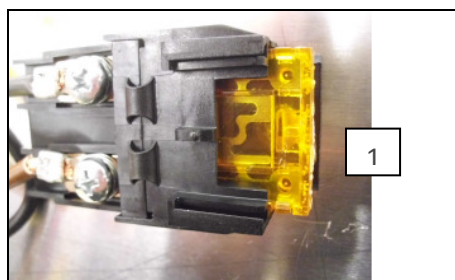


- Remove bolts of fuse housing.

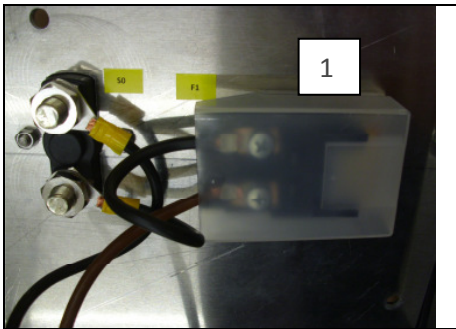
- Turn the fuse housing into your direction.



- Pull off the protective cap (1).



- Replace defective fuse F1 (1).



- Place protective cap (1) back in position.

- Install the fuse housing.
- Mount the drive wheel.
- Perform functional check.

8.3 Replacement Fuses F2 – F6

- Switch off the machine (see chapter „7.2 Switch the Machine on/off“).
- Secure the machine against unexpected restarting by removing the key.

NOTE

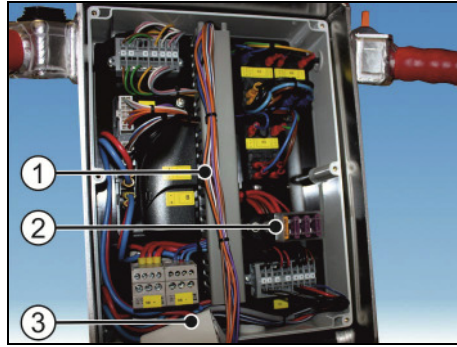
Fuses protect electric circuits against overload.

- Always use fuses suitable for the specified tripping current.

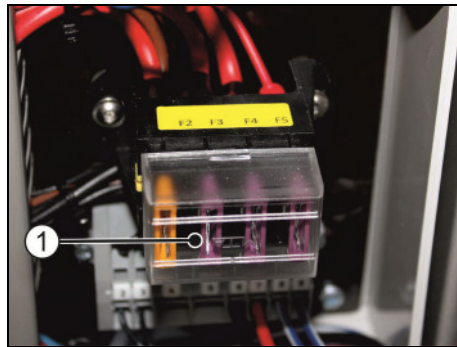


- Loosen bolts (1) of control panel.

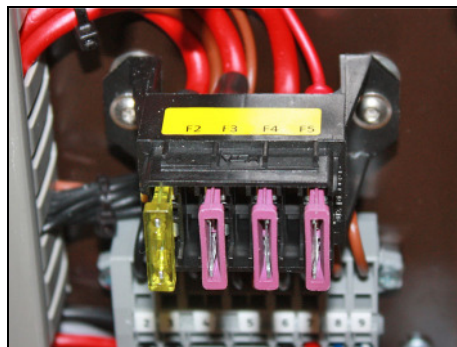
8.3 Replacement Fuses F2 – F6



- The control panel (3) can be left hanging on the wiring harness (1) to have free access to the fuse block (2).

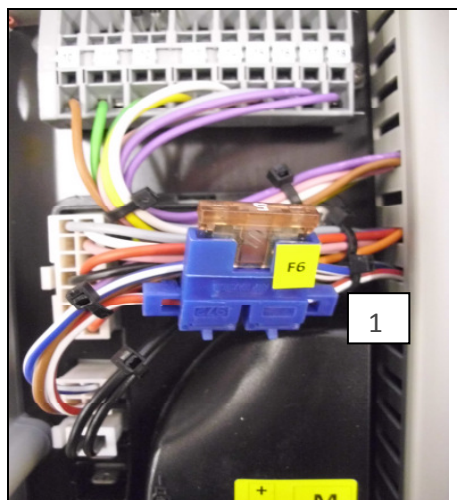


- Remove protective cap (1).



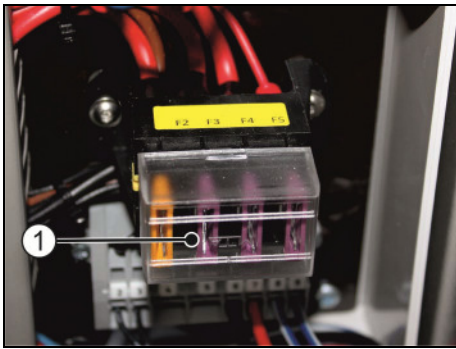
- Replace defective fuse.

F2: Roller motor	20 A
F3: Brake roller motor	3 A
F4: Control roller drive	3 A
F5: Control drive motor	3 A




- Replace defective fuse. (1)

F6: Charging socket	5 A
---------------------	-----



- Place protective cap (1) back in position.

 Ensure that the sealing of the control panel is in proper position.

- Install the control panel.
- Perform functional check.

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
 5. Cover or block live parts



CAUTION



The rollers pose danger of injury to fingers and hands!

Movement of the rollers pose danger of injury due to bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the rollers.
- Keep unauthorised persons away from the working area.

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:

- Switch off the machine (see chapter „7.2 Switching the Machine on/off“).
- Secure the machine against unexpected restart by removing the key.
- 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 Work	See Section
Daily		
Complete machine	Visual check	Fehler! Verweisquelle konnte nicht gefunden werden.
Complete machine	Cleaning	9.2.3.2
Monthly		
Chain drive roller motor	Tension and oil chains	9.2.4.1
Drive wheels	Check tyre pressure	9.2.4.2
Special maintenance intervals		
Rechargeable battery	Charging	9.2.5.1

9.2.2 Preparatory Measures

- Switch off the machine (see chapter „7.2 Switching the Machine on/off“).
- Secure the machine against unexpected restart by removing the key.

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 depending on the level of cleanliness. Clean by using a water hose.

9.2.4 Maintenance – monthly

9.2.4.1 Tensioning and Lubrication of Drive Chain



ATTENTION

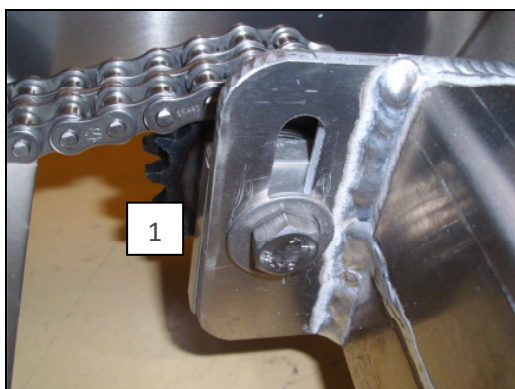
Risk of crushing fingers and hands!

The drive chain poses crushing hazards on fingers and hands.

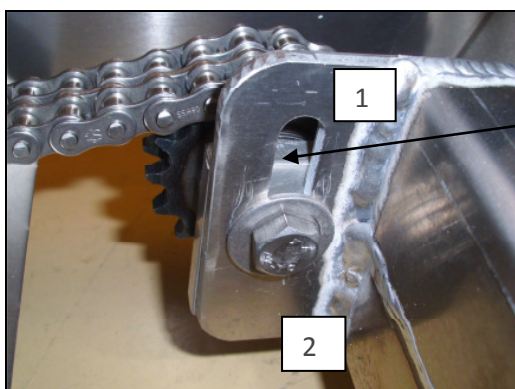
- Switch off the machine (see chapter „7.2 Switch the Machine on/off“).
- Secure the machine against unexpected restart by removing the key from the main switch.
- The machine must only be operated by instructed personnel.
- Do not touch the rollers.
- Keep unauthorised persons away from the work area.



The tension of the chain must allow the chain to be pushed down slightly.



- Check tension of drive chains.(1)



Tension chain

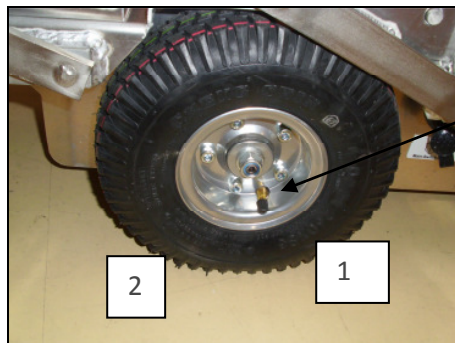
- Loosen screw at tension pulley (2).
- Move tension pulley along oblong hole (1).
- Tighten up screw at tension pulley (2) again.

- Check the drive chain for state of lubrication. Lubricate drive chain, if necessary.
- Remove excess grease.

9.2.4.2 Check Tyre Pressure



The picture shows the right side drive wheel. Proceedings for the left side wheel are identical.



- Check tyre pressure of drive wheel (2) at the valve (1).
- Change tyre pressure to 2.5 bar, if necessary.

9.2.5 Special Maintenance Intervals

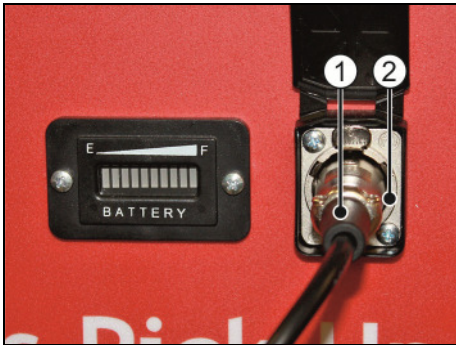
9.2.5.1 Charge Battery

NOTE

The discharging of battery during operation makes the LED bar move to the left. Immediately recharge as soon as the LED display turns yellow.

- To preserve the batteries recharge already when penultimate green bar is illuminated.
- Use the charging device only in dry rooms.

- Immediately charge the battery as soon as the charge indicator displays a yellow bar.
- Recharge batteries regularly during longer periods of non-use to avoid deep discharge and resulting damages to batteries.



- Connect the charger plug (1) of the charging device to the charger socket (2).

- Connect the AC voltage plug of the charging device to a 230 V AC power outlet.
- Charge the battery until the battery indicator displays full charge status (green bar at the very right).



- Remove charging device by pressing down the lever (1) slightly and by unplugging the charging plug.

- Close the cover of the charger socket.

10 Decommissioning and Disassembly



CAUTION



The rollers pose danger of injury to fingers and hands!

Movement of the rollers poses danger of injury due to bruising, retraction, capture, grazing, piercing, and cutting fingers and hands!

- The machine must only be operated by instructed personnel.
- Do not touch the rollers.
- Keep unauthorised persons away from the working area.
- Make sure that the roller hood is installed.

10.1 Disposal



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

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

Porky's Pick Up XL

for loading and unloading as well as the transport of pig carcasses 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, 17.02.2017

(CEO)