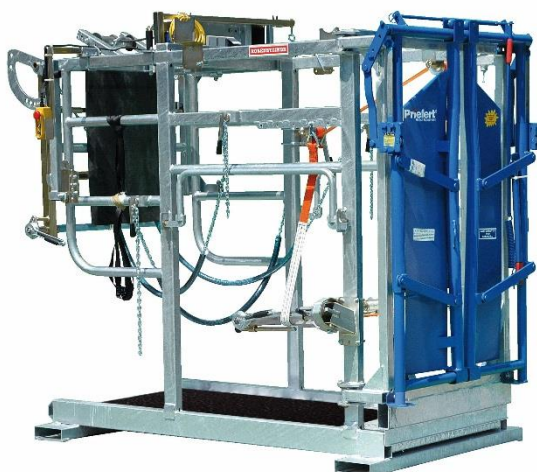


OPERATION AND MAINTENANCE MANUAL

LIST OF SPARE PARTS

TRANSFER DOCUMENT



Hoof trimming crush

BULL TOP S

BULL TOP M

*Please read carefully before initial commissioning!
Should be kept for future use!*



Serial number:

Purchase date:

Status: 02/2024

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1. INTRODUCTION

1.1. ABOUT THIS PRODUCT

You have bought the Rosensteiner hoof trimming crush "BullTop", work equipment with pioneering technology for the trimming of animal hooves. The hoof trimming crush serves for periodic, expert and economic hoof trimming in a posture which is ergonomic, functional and fatigue-proof for the carer.

The hoof trimming crush is generally referred to as work equipment in this operation manual.

The work equipment and its fittings are in accordance with the state of the art at the time of placing on the market. However, residual risks exist. Insofar as possible, we have constructively reduced the risks to health which are associated with these hazards.

This document contains important information and serves as a guideline for safe operation inclusive of all activities which are necessary for operation, such as handling, maintenance or service. Through its observance, you will be able to avoid dangers and to increase the lifetime of the work equipment. It is prohibited for the customer to change it.



The documentation of the individual subcontractors, and especially the information and details contained therein, is fully valid and are to be observed.

The manufacturer does not accept any liability for damages that arise from failure to comply with details and information contained in the manuals, or from improper usage.

We compiled the documentation with great care. However, it may contain minor deviations. Please inform us of these.

CAUTION



Unauthorized modifications (structural, functional or procedural) and the use of components and auxiliary components on the work equipment exclude the liability of the manufacturer.

WARNING



Intended alterations, changes to the work equipment described, require a further analysis of the dangers and an evaluation of the risks! Original spare parts and accessories are designed especially for this work equipment. We particularly emphasize that original parts and accessories which are neither specified nor supplied by us are also neither tested nor released by us. The fitting and/or usage of such products may negatively change or influence the given constructive characteristics of your work equipment. The manufacturer accepts no liability whatsoever for damage caused by the use of non-original parts and accessories.

1.2. PROPER USE

The hoof trimming crush Bull Top is intended solely for the trimming of animal hooves.

The hoof trimming crush is suitable for bovine animals from 700-1500 kg maximum.

Any operation which deviates from "the intended use" is an improper use and therefore prohibited. This is also valid for components of this work equipment.

1.3. SELECTED EXAMPLES OF IMPROPER USE

- Any usage that deviates from the "intended use" or which goes beyond the defined scope of utilization.
- Operation of the work equipment that is not in compliance with the requirements of the safety and risk aspects and with full observance of the operation manual. This is also valid for malfunctions which arise as a result of defective, improper or unauthorized work on/with the work equipment.
- Each alteration, bypassing or shutting off of fittings on the work equipment which serve the proper functioning and the active and passive safety.
- Operation of the work equipment in a non-perfect condition technically.
- Failure to remedy faults that impair the safety before using the work equipment.
- Use of inappropriate auxiliary equipment and tools.

As a general principle, the manufacturer shall not be liable for damage resulting from improper use.

1.4. EU- DECLARATION OF CONFORMITY

Manufacturer and responsible for documentation:

ROSENSTEINER

Landmaschinenbau GmbH

Hermesstraße 2b

A-4595 Waldneukirchen

Phone +43(0)7258/20110

hereby declares that the machine described in the accompanying operation manual:

Type: **Bull Top S**

Bull Top M

Description: **Hoof trimming crush Bull Top**

Brand: **Rosensteiner**

is in accordance with the provisions of Directive 2006/42/EU (for Machinery).



Steinbach, February 28st 2017

Andreas Rosensteiner, owner

1.5. WARRANTY

The company Rosensteiner Landmaschinenbau GesmbH assumes warranty under the following terms and conditions:

- 1) The warranty includes the function and quality of the device. The warranty does not cover wear and tear.
- 2) Time of warranty is 1 year from the day of delivery to the customer. All warranty claims received within the warranty period by the retailer or in the plant, Hermesstraße 2b, A-4595 Waldneukirchen, shall be processed.
- 3) Warranty claims must be submitted immediately to the retailer or manufacturer if defects appear in the material or in the workmanship during the warranty period.
- 4) The retailer must be shown the defective device or part. A subsequent repair or replacement may only take place in agreement with Rosensteiner. Expenses made without explicit consent will not be covered by the manufacturer. Defective parts are to be stored with the retailer as agreed upon, or sent to Rosensteiner. The customer must bring the device to the retailer free of carriage charges.
- 5) No warranty claims will be considered if the device is damaged or destroyed by force majeure. Note: Warranty claims will lapse in the case of damages as a result of improper handling, overload, attachment to oversized carrier vehicles or non-implemented maintenance and care!
- 6) Warranty claims shall only be processed when the contract of purchase, invoice or delivery note and the device number are submitted together with the device.
- 7) In fulfilling the warranty, the device will be repaired or exchanged for a functional equivalent.
- 8) Further claims, in particular damages and loss in any form whatsoever which are the result of device usage, are excluded.
- 9) If a replacement is made by us in accordance with this warranty, warranty claims against the retailer as the seller will be eliminated.

1.6. TECHNICAL SPECIFICATIONS

Machine type	Hoof trimming crush Bull Top
Dimensions	2,15x0,80x1,80m (L/B/H)
	2,15x0,90x1,80m (L/B/H)
Recommended animal size	700-1500 kg
Dead weight	548-580 kg
Attachment	3-point hauler support Cat II
Cushioning	Rubber mat foam underlay
Drive via	230V
Surface	Galvanized

1.7. TYPE LABEL

The type label is placed on the left red cover plate and contains the type designation and the year of construction!



1.8. STRUCTURE AND SCOPE OF THE OPERATION MANUAL

1.8.1. Structure

This operation manual was created in accordance with the Directive 2006/42/EU and the resulting regulation MSV 2010, implemented in Austria. The operation manual in its present form will support you in getting to know the technical details of the machine, in operating the machine properly and safely, in maintaining it and in using it in the intended fields of application.

1.8.2. Target group

The operation manual is aimed at those people who are familiar with a traction engine, with the attachment of additional devices, with the transport of attachment devices using a traction engine, the commissioning and operation of these, and who possess the appropriate qualifications for their jobs and functions, i.e. those people who can evaluate the jobs and possible dangers because of their professional training, knowledge and experience.

Each person who is involved with work on the machine – e.g. operation, maintenance, transport – must:

- have read and understood this operation manual before working with the machine,
- observe the contained instructions and safety information.

1.8.3. Changes to this operation manual

The present operation manual describes the condition of the work equipment at the time of creation of the operation manual.

1.8.4. Storage of this operation manual

This operation manual must always be stored at the place of action of the work equipment and must be readily accessible for all people using the work equipment! If this operation manual gets lost, please request a replacement from your retailer. If you sell your machine, please remember to include the operation manual. It is a statutory component of your machine. You can also find the operation manual on our homepage www.rosensteiner.at

1.8.5. Spatial limits

This machine is designed for mobile operation at different places of use.

1.8.6. Time limits

Because of the stress on the work equipment, attention must be paid to the durability of the components used, with regards to reliability, breakdown susceptibility and their operating limits. The following phases of life are not dealt with in this operation manual:

- Manufacture and transport (to the customer / user)
- Maintenance work on the work equipment and its components in workshops
- Work which requires the competence of the operator (welding work, electrical work,...)

1.8.7. Explanation of the information and safety instructions

	Useful additional information in continuous text is marked with accompanying info button.
SIGNAL WORD	Type and source of danger and the accompanying risks!
	Possible consequences for people, machine parts, tools and work piece – residual risk! – Measures to avoid danger to life and limb and to reduce the residual risk.
SIGNAL WORD	Explanation
NOTE	Warns against a potentially dangerous situation in which the unit or something in its environment could be damaged.
CAUTION	Warns against a potentially dangerous situation which could lead to light bodily harm or damage to property.
WARNING	Warns against a potentially dangerous situation which could lead to severe bodily harm or death.
DANGER	Warns against an imminent danger which will lead to severe bodily harm or death.

1.8.8. Pictograms in the operation manual and on the machine

	Never enter the danger zone between the attachment and the machine!
	Danger of crushing!
	Read and observe the operation manual and safety information before commissioning the machine!
	Turn the motor off before repair, maintenance and cleaning work and pull out the plug!
	Keep sufficient distance from the electric high voltage line!
	Machine with wheel chocks before uncoupling or setting down!
	Avoid uneven surfaces and slopes where the device could slip, tip or fall over!
	Before maintenance and repair work, switch off the motor and remove the key!
	Beware of fluid escaping under high pressure. Please observe the information in the technical manual!

2. TRANSPORTATION

2.1. ATTACHING A HOOF TRIMMING CRUSH TO A TRACTION ENGINE

WARNING



To transport the hoof trimming crush with the tractor, it is necessary to mount a three-point hitch as additional equipment. This three-point frame is tool-free mounted to the headgate.

CAUTION: The three-point hitch Art. No. 81400 is only suitable for transporting devices and NOT for road transports!

To be observed while attaching:

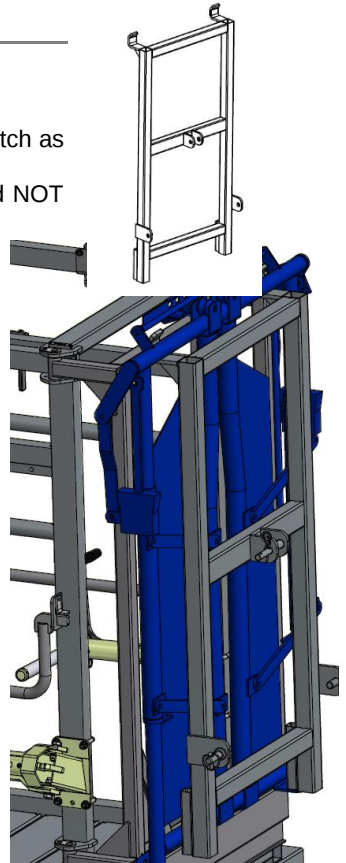
- Make sure that there is nobody in the danger zone, in particular between the tractor and the hoof trimming crush.
- Before attaching the hoof trimming crush, make sure that the tractor has enough frontal weight.



- Never enter the danger zone between the attachment and the machine! Danger of crushing!
- Use suitable security bolts to mount the hoof trimming crush with the lower / upper link support and check for a tight fit in the suspension.



- While operating the tractor hydraulics (upper link, lower link), ensure a secure position with sufficient distance from dangerous movements, under no circumstances stand on parts of the tractor (lower link, ...) or on the hoof trimming crush.
- Do not step between the hoof trimming crush and the tractor when the traction engine is running.
- Check transportation position. The front foot holders must be turned inwards and all safety ropes must be fastened tightly by the clam bollards.



2.2. TRANSPORTING A HOOF TRIMMING CRUSH USING A TRACTION ENGINE

WARNING



- Watch out for sufficient distance from the electric high voltage line during transport.
- When transporting the device on public roads, please observe the road traffic regulations of your country and affix the lights or warning signs to the device as prescribed by law.
- For day use, two warning lights must be affixed on the left and right rear of the hoof trimming crush in such a manner that the rear lighting of the hauler is not covered. For night use, a light rail with complete element illumination (lights left and right as on the hauler) must be affixed to the rear of the hoof trimming crush.

2.3. REMOVING A HOOF TRIMMING CRUSH FROM A TRACTION ENGINE AND SETTING IT DOWN

Proceed as follows for the set-down of the hoof trimming crush:

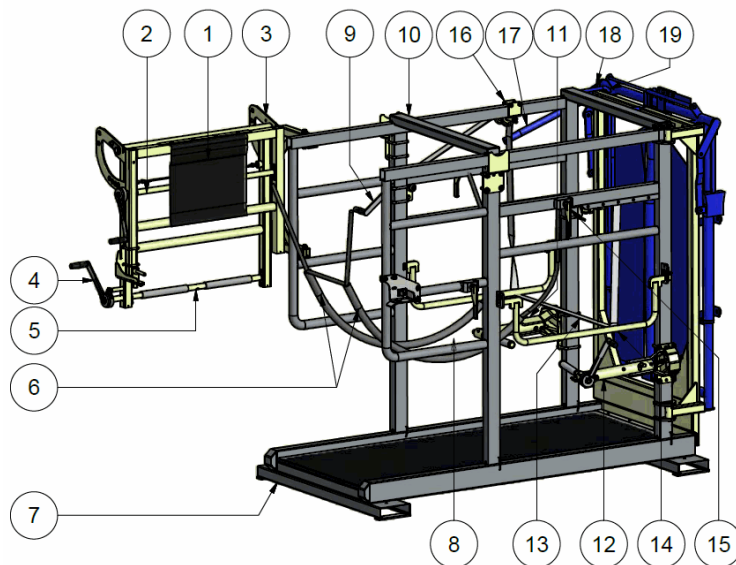
WARNING



- Drive on to a level storage area.
- Secure the tractor against rolling (hand brake, brake wedge).
- Lower the hoof trimming crush. When setting down the hoof trimming crush, make sure that it is tip- and slip safe, especially when it is to be set down at an elevation on scales, pallets etc.
- Free the upper link chain first, then the lower link chain.

3. COMMISSIONING / OPERATION

3.1. DEVICE OVERVIEW / MAIN CONTROLS



Pos.	Description	Pos.	Description
1	dirt protection mat	12	front foot winch right complete
2	knee strap shaft	13	chest strap
3	back foot gate	14	locking bow
4	pressure roller handle	15	shank chains holder + release lever
5	back foot shaft	16	chest strap roller
6	shank chains left and right		
7	bottom traverse		<u>Headgate:</u>
8	knee chain	17	operating lever open/close
9	chest strap winch	18	adjusting lever for automatic mode
10	base frame	19	spring tensioning lever

3.2. SAFETY INSTRUCTIONS BEFORE COMMISSIONING

NOTE



- At the initial operation, please ask a person for assistance, who has already experience in hoof trimming and knows the device.
- Do not carry out hoof trimming straight after feeding!

WARNING



- Read the operation manual carefully before commissioning the working device and strictly follow the instructions.
- The device may only be operated by persons who are familiar with the intended application area and used to the handling of cattle.
- Make a general visual inspection of the hoof trimming crush for possible alterations before using it.
- Check whether the hoof trimming crush is positioned on an even and firm surface.
- Check the hoof trimming crush for loose or pendent parts (especially fittings).



- Check the hydraulic system for damages, especially the transmission lines / tubing.

- Check belts for wear and tear.
- Check the condition of all protection devices
- Check screw connections and tighten if necessary.
- The device may only be operated with suitable protection measures against too high touch voltage. FI-switch 30mA trigger voltage.
- Visually inspect electrical equipment for damages.
- Check whether the electric inspection is within the year interval (yearly inspection of the electric installation by experts is required).



- Inspect the work space and make sure that no unauthorized person is in the work space – pay special attention to children.



Use personal protective equipment!

3.3. PROCEDURES FOR THE COMMISSIONING OF THE HOOF TRIMMING CRUSH

- 1) Position the hoof trimming crush on an even, slip-resistant surface (no mounting necessary) at an easily accessible area.
- 2) Open the rear gate and close the front gate on which the catching bow is mounted (only at Bull Top)
Open the headgate and choose manual or automatic mode as required.
- 3) Hang the loose chain ends to the crush and make sure that they nor touch the floor neither hinder the animal when it is led into the crush.
- 4) Turn the front foot winch far enough outwards that it is placed outside of the base frame.
- 5) Remove the chest strap from the interior area of the crush or take it off the deflection pulley and place it in the center of the crush flat across the bottom of the crush.
- 6) If necessary, move the locking strut (accessory) downwards in order to avoid a jinking of the animal.
- 7) It is recommended to lead the animal into the hoof trimming crush via a passageway.
- 8) Activate the catching device (or automatic operation). The animals' shoulders should be close to the frame for the neck. Check if the head is safely held in place.
- 9) Put on the knee chain horizontally at the height of the knee joint, fasten moderately and attach it to the corresponding hook.
- 10) Putting on the chest strap – starting at the rear side of the animal: Lead the chest strap behind the front feet via the deflection pulley to the tensioning pulley. Thread the strap and tighten it clockwise with the crank shaft.
- 11) Put on the shank chains by leading them left and right between udder and shank to the front and firmly attach the chains to the chain fixing bracket.
- 12) **Fastening the back foot:**
Fasten the foot with the joint strap above the ankle joint and lift it with the upper crank handle to the desired operating height, so you can trim by using the Dutch method. Additionally, fasten the lower part of the foot with the lower back foot winch when using an angle grinder.

13) Fastening the front foot:

Caution: Only work on a front foot when the back foot of the same side is safely fastened by the rope. Fasten the rope for the front foot between the claw and the dew claw. Move the front foot winch inwards until the center of the shaft is behind the foot. Attach the rope to the winding shaft and tighten it until the claw is slightly turned outwards.
Turn the front foot winch outwards until the claw is outside the main frame and therefore easily accessible.

Caution: Do not overstretch the joints of the animal! Make sure that the locking mechanism has properly snapped in. The rope can be removed by turning back the crank handle and loosening the rope. Perform hoof trimming.

14) Tighten the joint strap by using the knee strap shaft (2). Tighten the lower part of the foot by using the back foot shaft (5). Pay close attention to the proper winding of the rope. The foot should rest approx. at the center of the shaft. Perform hoof trimming.

15) After hoof trimming:

Loosen the shank chains. If they are loaded, turn the dropping lever until the chain is dropping down. Put the loose chain end back alongside the chain in order to avoid the risk of injury.

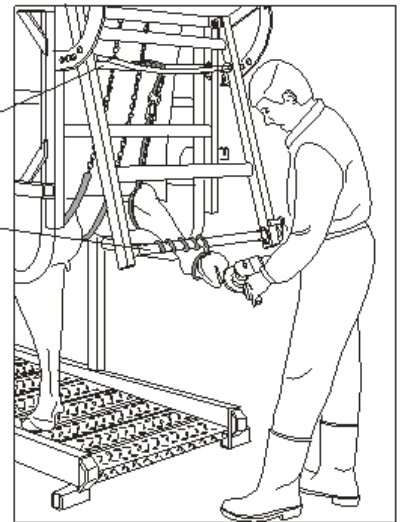
Caution: Keep your hand off the chain! Now open the chest strap. Emergency lowering – if necessary the shank chains at the back can be lowered by using the knee strap shaft.

16) Open the safety gear – the animal can leave the hoof trimming crush.

For Bull Top only

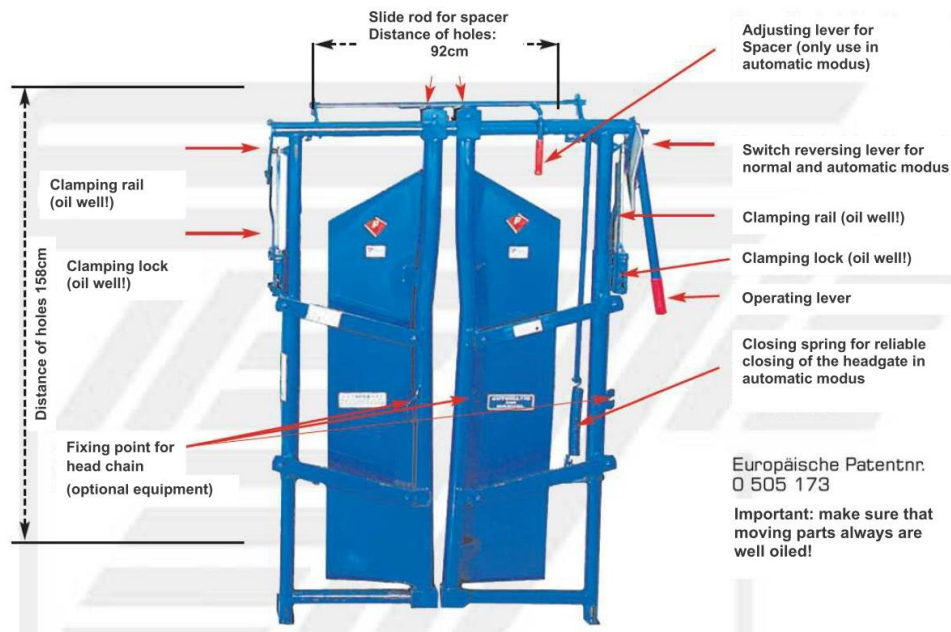
In case the animal is too big to fit through the safety catch, open front gate. If the animal lays down in the crush, remove the cross chain and open the safety catch and the rear gate.

17) Prepare the hoof trimming crush for the next animal as described in point 1 to 4.



3.4. COMMISSIONING AND OPERATING THE HEADGATE

The „headgate“ can be installed into existing passageways as well as with a rack (HGS) slightly relocated.



Standard Operation

1) Push the switching lever back, so that it won't snap in the operating lever.

2) Open headgate with operating lever.

3) Let the animal enter the hoof trimming crush at the rear through the passageway. As soon as the head has passed the catching bar, close the headgate.

Hint: If the animal enters the crush rapidly, reduce the opening of the catching bars until the animal stops and then slowly reopen it.

4) For special treatments at the head (treatment of eyes and ears, dehorning etc.) the head can be fastened additionally with the special chain HC (accessory equipment).

CAUTION



5) Pull the operating lever upwards to release the animal and let it pass through towards the front.

Automatic mode

6) Move the switching lever to the front, until it snaps in the operating lever.

7) Open the headgate with the operating lever and insert the distance piece according to the required opening width (slightly wider than head size).

8) If an animal tries to escape through the opening, the distance piece is released and falls back into the initial position by its own weight. The closing spring contracts the headgate until the catching bar is placed closely to the animal's neck. The clamping device ensures that the catching bar can't be opened by the animal.

9) Pull the operating lever upwards in order to open the headgate.



The automatic mode is not recommendable for fastening the animal for longer treatments as there is a higher risk of injury for the animal. Switch to manual mode, release the spring.

Adjusting for operating from the right side

The standard headgate (factory setting) is equipped with the operating lever on the left side. All of the levers can be converted inversely to the opposite side.

10) Conversion of the operating lever: loosen the two screws of the operating lever and place the operating lever at the opposite side and fasten the screws again.

11) Conversion of the operating lever from manual to automatic mode:

Loosen the eyebolt of the spring and pull the lever upwards to remove it. Insert the lever on the opposite side, slightly pretension the tension spring with a screwdriver and fasten the nut.

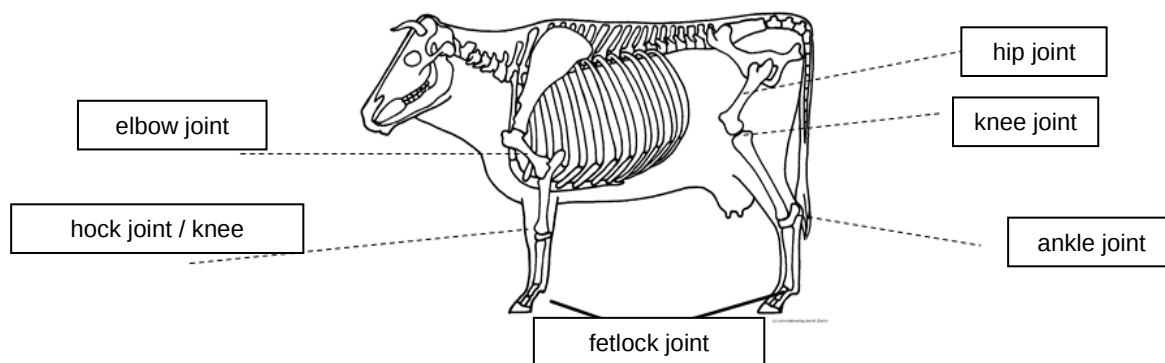
12) Conversion of the adjusting lever for the distance piece: Remove the locking pin of the slider bar for the distance piece, pull out the bar and insert the distance piece back-to-front. Turn the operating lever to the front by loosening the lock nut and reattach it.

3.5. ANIMAL PROTECTION / NATURAL MOTION SEQUENCES

Make sure that no injuries or pain is inflicted to the bovine animal as a result of unnatural movements. This is especially valid during lifting of the legs and swiveling out of the front legs.

In order to make this easier for you, we have included an overview of the entire locomotive system in the operation manual. The most important positions were identified here (picture below).

The retaining elements such as the chest strap and the shank ropes are meant to prevent the animal from falling. Under no circumstances may the animal hang in the straps/ropes longer than necessary, as this could lead to paralysis with permanent consequences. If the animal gets hung up in the belt/cord, work must be stopped immediately and measures must be taken to get the animal back on its feet. If the animal does not react, all leg fastenings must be released, the animal lowered to the ground and the head catching device must be opened.



4. CLEANING

- NOTE**
- Pay attention to the safety information in the safety data sheet for detergents / disinfectants, remove cleaning waste water in accordance with regulations in the country of use.
 - Wear protective goggles.

5. MAINTENANCE / SERVICE / REPAIRS

5.1. SAFETY INFORMATION

CAUTION



- Service work may only be carried out by qualified and trained personnel or by the manufacturer himself.
- Maintenance and service work may only be carried out when there is sufficient lighting present for the work to be carried out.
- In case of maintenance and service work on parts of the hoof trimming crush, each part that has to be lifted must not exceed the weight of 25 kg per person.
- Maintenance work may only be carried out when fully set down.

5.2. ELECTRICAL HAZARDS

Contact with live parts.

Effects of electrical power on humans.

DANGER



- Compliance with the statutory regulations for installation, operation, service and inspection of electrical operating material.
- Only allow skilled electricians to carry out work.
- Skilled personnel must service damaged installations immediately!
- Use of suitable plugs, couplings
- Recurring inspections
- Ensure that the device is completely turned off and secured against restarting before opening the electrical device casing!

The service personnel must be acquainted with specialist standards and regulations.

Injuries due to unexpected change in operating states.

DANGER



- Check loosened screw connection for a firm fit before starting up.
- Loosening screw connections: When opening screw connections, slowly open these to reduce pressure in the line.
- Opening drain points with screw connections: Only remove threaded joints of drain points if system is depressurized!

The pressure must have fully dissipated before opening pipe connections and pressurized systems.

5.3. MAINTENANCE AND CARE

The following measures increase the operational safety and lifetime of your device:



- All rotating points are to be greased regularly or after each cleaning with the high-pressure cleaner.
- Oil pressure rollers of safety cranks.
- Oil all rotating points after each thorough cleaning and in regular intervals, in accordance with the frequency of use.
- Check all safety cranks for a clearance of +/- 2 cm and the functionality of the spring (see also information on the crank).
- Check the straps and ropes from time to time for wear and tear.
- Check screw connections and tighten again after every fifth start-up and as necessary.
- Repair or replace damaged parts immediately. Work with damaged parts can entail a risk for you and the animal.

Lubrication schedule:



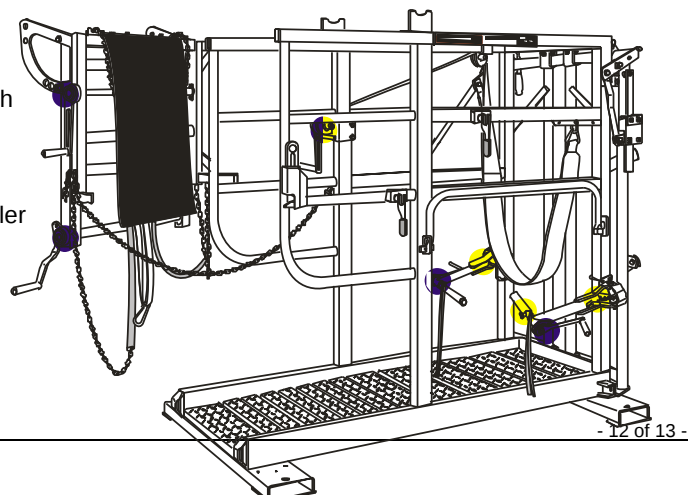
Grease nipples:

Grease regularly with a grease gun (2 lubrication points at each front foot holder, one lubrication point at the belly strap winding)



Lubrication points:

Lubricate with an oil spray on a regular basis (all pressing roller safety cranks – front foot holders, rear gate, belly strap winding)



6. SPARE PARTS

- NOTE**  – Original parts are to be used to replace a component of the machine. Spare and wear parts for original components and accessories which are not supplied by the manufacturer of the machine are not tested and approved by the manufacturer.
- The fitting and/or usage of such products may change the given constructive characteristics of the machine and endanger its' safety.
- The manufacturer accepts no liability whatsoever and the right to warranty will expire for damages or consequential damages caused by the use of non-original parts and accessories or the inappropriate fitting or replacement of original parts and accessories.
- Once the warranty terms have elapsed, we recommend the usage of original parts to ensure continuous performance of the machine. For warranty claims please contact your local sales and service partner.

7. RECURRING INSPECTIONS

- NOTE**  – The electric installation of the machine is to be inspected yearly by an expert.

8. SCOPE OF DELIVERY / ACCESSORIES

Standard equipment:

- Complete base frame, galvanized
- Head catching device headgate, via manual lever or automatic (mounted to front gate)
- Front foot winches left and right – retractable
- Back foot lifting - 2 levels
- Lower leg bow at the rear with safety crank
- Safety elements (chest strap with winch, knee and shank chain with protection hose)
- Rubber mat
- Locking bow
- Appliance for weighing beam

Art. No.	Type	Description
80 255	Bull Top S Basic	Standard
80 260	Bull Top M Basic	Standard

Art. No. Accessories

85 630	electrical back foot elevation 220 V/500 kg for S
86 630	electrical back foot elevation 220 V/500 kg for M
85 820	service arm with lightening
85 810	service arm without lightening
85 170	manual transport wheels for M
85 190	for manual transport wheels for S