

User manual

Treatment crush

SA0042



Wopa Constructiebedrijf B.V. specialises in the development and production of hoof trimming and treatment crushes for cows and bulls for both professional users and cattle farmers.

Manufacturer:

Wopa Constructiebedrijf BV
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Foreword

Please read this manual carefully!

This manual contains relevant information and instructions for transport, installation, operation and maintenance of the machine.

Our crushes are developed and manufactured in line with the latest technology. This means that the machine complies with the applicable European Directives on health and safety, animal welfare and hygiene and also carries the CE/UKCA marking.

The manufacturer is not liable for any unsafe situations, accidents and damage resulting from:

- disregarding warnings or regulations as displayed on the machine and/or described in this user manual.
- the removal of fitted safety devices.
- inadequate maintenance.
- being used for applications other than those indicated in section 1.2.
- modifications to the machine by third parties. This includes the installation of replacement parts other than those specified.

CAUTION!	• All persons responsible for operation must, at minimum, read and fully understand the Operation and Safety sections of these operating instructions. • All persons responsible for assembly, installation, maintenance and/or repair must read and fully understand these operating instructions. • The user is responsible for interpreting and using this manual in all circumstances. Contact the owner or supervisor in case of questions or doubts about the correct interpretation. • This manual should be kept near the installation and within easy reach of the users.
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Table of contents

FOREWORD	3
TABLE OF CONTENTS	4
1. INTRODUCTION	5
1.1 SUPPLIER INFORMATION	5
1.2 INTENDED USE OF THE MACHINE	6
1.3 WARRANTY	7
1.4 GENERAL DESCRIPTION OF THE TREATMENT CRUSH	8
1.5 DESCRIPTION OF MAIN COMPONENTS	9
1.6 ELECTRICAL SYSTEM	11
1.7 HYDRAULIC SYSTEM	13
2. RESPONSIBILITIES AND SAFETY	14
2.1 RESPONSIBILITIES	14
2.2 SAFETY DEVICES	14
2.2.1 <i>Guards around the frame</i>	15
2.3 EMERGENCY STOPS	16
2.4 PICTOGRAMS USED	17
2.5 PICTOGRAMS USED AT THE LOCATION OF POSSIBLE HAZARDS ON THE MACHINE FOR OPERATOR AND SERVICE/MAINTENANCE TECHNICIAN	19
2.6 MACHINE AREA / WORK AREA	20
3. TRANSPORT, POSITIONING AND INSTALLATION	21
3.1 TRANSPORT	21
3.2 INSTALLATION	22
4. OPERATION	23
4.1 PROCEDURE PRIOR TO START-UP	23
4.2 STARTUP/SHUT DOWN	23
4.3 RESTARTING AFTER AN EMERGENCY STOP	24
4.4 PRODUCTION/IN OPERATION	25
4.5 HOOKING FRONT LEG	26
4.6 RELEASING FRONT GATE IN CASE OF ANY PROBLEMS	26
4.7 MALFUNCTIONS	27
5. MAINTENANCE	28
5.1 MAINTENANCE DIAGRAM	29
5.2 MACHINE REINIGEN	29
5.3 LUBRICATING THE CRUSH	30
5.3.1 LUBRICATING THE BACK GATE	30
5.3.2 LUBRICATE OTHER PARTS	31
5.4 CHECK THE OIL VALVE/CHANGE THE OIL	32
5.4.1 <i>Checking the oil level</i>	32
5.4.2 <i>Changing oil</i>	33
5.5 REPLACE FILTERS	34
6. DISMANTLING AND DISPOSAL	35
7. TECHNICAL INFORMATION	36
8. APPENDIX	37

1. Introduction

1.1 Supplier information

Manufacturer/Supplier: WOPA Constructiebedrijf BV
Address: Rector Hulshofstraat 10
Postcode/Town: NL-7135 JV Harreveld
Telephone: +31(0)544 372415
Email: info@wopa.com

Machine name: Treatment crush
Year of construction: 2026
Type number: SA0042
Serial number: 00..

WOPA		Rector Hulshofstraat 10 NL-7135 JV Harreveld The Netherlands		www.wopa.com info@wopa.com Tel: +31 544 37 24 15		CE UK CA	
Type	SA0042	Machine	Claw Treatment Crush				
Serial no.	xxxxx	Watts	2,8	kW	Hz	50	
Total weight	xxxxx kg	Voltage	400	V	Year		2026



1.2 Intended use of the machine

The SA0042 is specially designed for hoof trimming and treatment of cattle.

All other applications are not permitted.

The user is fully responsible for any damage and injury incurred by any applications other than those listed above.

1.3 Warranty

The warranty is subject to the following limitations. The warranty period for products supplied by Wopa is 12 months from the date on the purchasing document. The warranty is limited to production and material errors and therefore does not cover any breakdowns due to a part of the product exposed to any type of wear. Normal wear as can be expected from using this product is therefore excluded.

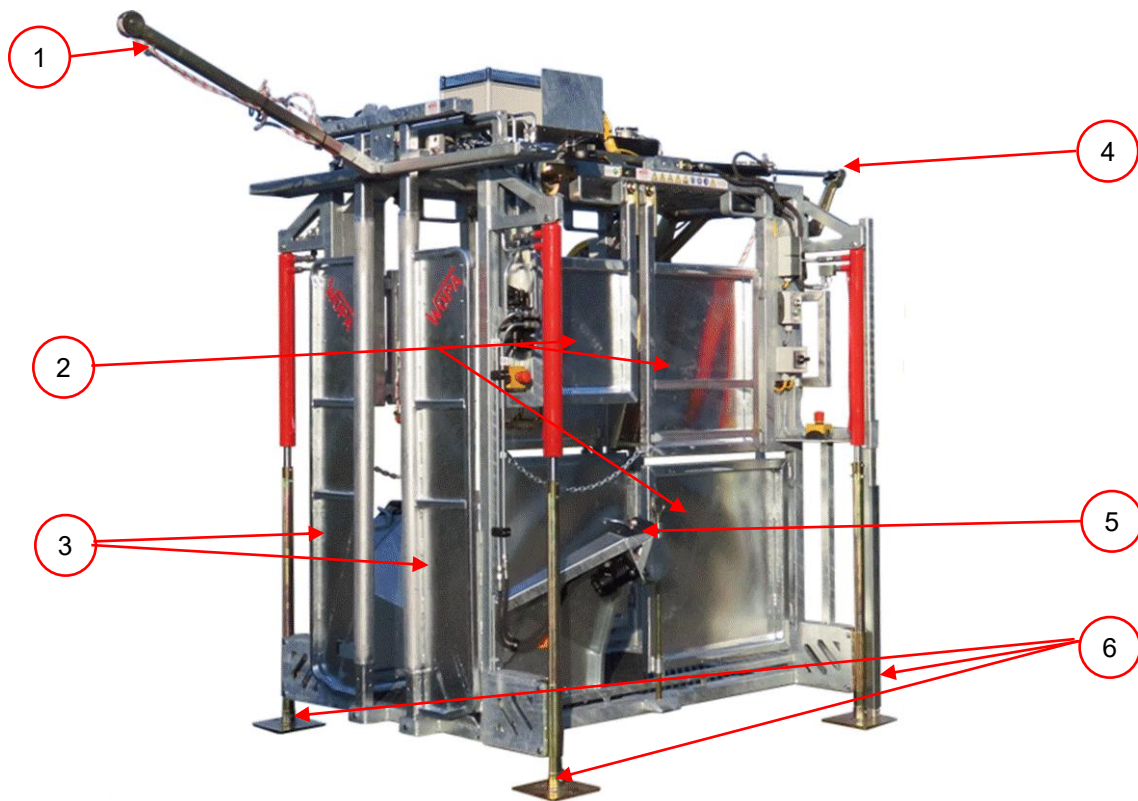
1. Wopa's responsibility remains limited to replacing defective parts; we recognise no claims to any other type of loss or costs.
2. The warranty is automatically void in case of overdue or poorly implemented maintenance.
3. Should you have any doubts regarding maintenance work or should the machine fail to operate correctly, contact the supplier.
4. The warranty does not apply if the defect is the result of incorrect or negligent use or of maintenance carried out contrary to the instructions in this manual.
5. The warranty is void if any repairs or adaptations are made to the product by third parties.
6. Defects ensuing from damage or accidents caused by external factors are excluded from the warranty.
7. If we replace any parts in accordance with the obligations ensuing from this warranty, the parts we replaced become our property.

1.4 General description of the treatment crush

The SA0042 is specially designed for hoof trimming and treatment of cattle.
After the cow is secured in the crush, the cow can be treated at the desired areas by opening the respective side gates.

1.5 Description of main components

The version of your crush may deviate from the image below.



	Component	Description
1	Head lifter	This component allows a rope to be used to pull the head forward, left and right to drench or give a bolus. One end attaches to the halter and the other end can be hooked on the side at the rope eye.
2	Side doors	The side doors can be opened to allow access to the cow for examination and treatment.
3	Front gate	- The front gate can be set in all positions using the hydraulic lever at the right rear of the crush. - Fully open: the cow can walk out of the crush at the front. - Partially open (catch position): the cow's head can pass through the front gate, but not its withers. - Closed: the front gate is closed behind the cow's head.
4	Back gate	- This crush is equipped with a hydraulic back gate. - After the cow is placed in the crush, the back gate is placed against the rear of the cow using the hydraulic lever. This allows you to control how tightly the back gate is set against the cow. The brace must be pressed tightly against the cow during trimming because otherwise the cow will lie down. The crush comes with a standard W-bracket that allows better fixation of the back legs.
5	Front leg support	The cow's front leg can be winched hydraulically onto the front leg support with a rope and hook. The leg is secured and can then be treated.
6	Lift	- The SA0042 is equipped with a lift that can go 60 cm high. This is important so you can easily reach the udder. - The lift can be stopped at any desired height.

1.6 Electrical system

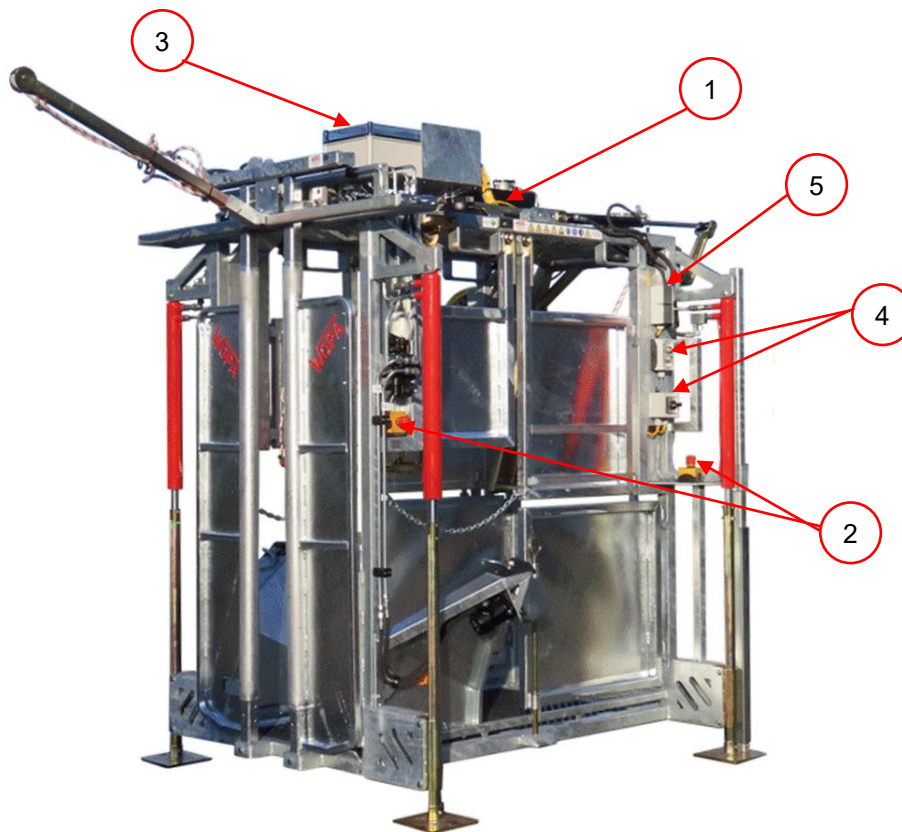


- The electrical system provides power for the motor, controls, lights and electrical outlets.
- For details regarding the design and operation of the electrical system **refer to the electrical diagram** found in the switch box of the crush.

The location of the control components in your installation may differ from the image below.

ATTENTION!

Work on the electrical system may only be performed by a technical expert.



Electrical system		
	Component	Description
1	Power supply cable with plug	• To connect the machine to the power supply.
2	Emergency stop buttons	• The emergency stop shuts down all movements.
3	Relay box	• There is a switch box on top of the crush. This contains the control elements for the respective crush.
4	Control buttons	• At the left rear, there is always a light switch, on/off switch and a start/reset button. • For 230 V, there is also a constant running button to keep the motor running constantly.
5	Electrical outlets	• E.g. an angle grinder and/or blow-dryer can be connected.

Wireless remote control

The wireless remote control is an option.

ATTENTION!	Always ensure that the work area around the box is clear when using the remote control.
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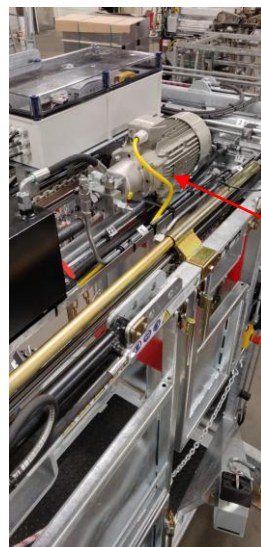
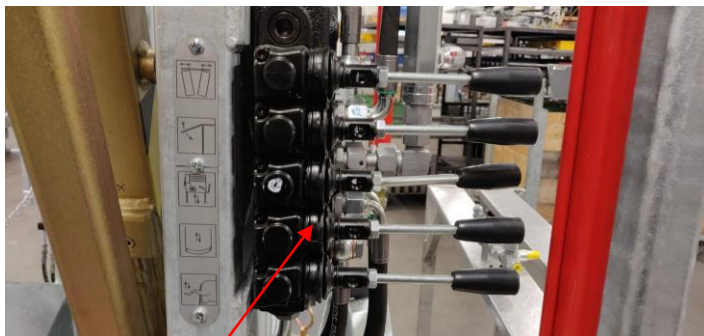
1.7 Hydraulic system



- The various functions are driven by the hydraulic system.
- **See the hydraulic diagram** for a detailed description of the system.
- The location of the control components in your installation may differ from the photo below.

ATTENTION!

Work on the hydraulic system may only be performed by a technical expert.



Hydraulic system		
	Component	Description
1	Valve block in general	The valves are used to control the following functions: • Front gate; When closing, it is stopped in the catch position in which the head can be inserted through the gate. • Back gate • Lift • belly band • rear foot
2	Front legs valve	• This controls the front leg motor.
3	Unit	• To connect the machine to the power supply, see motor type plate.

2. Responsibilities and safety

2.1 Responsibilities

Read the manual carefully before transporting, installing, operating, maintaining or servicing the machine.

This manual contains information necessary for the optimal and safe operation of the machine.

No adjustments/modifications may be made to the machine without the manufacturer's consent.

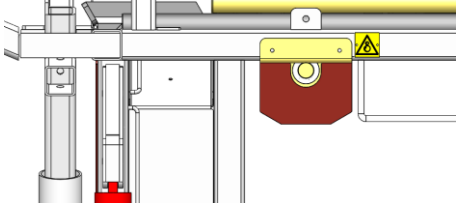
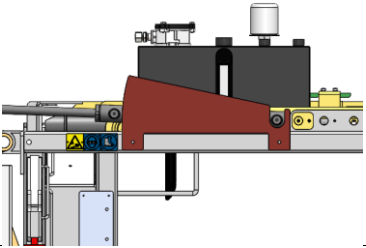
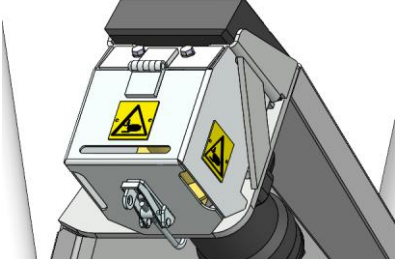
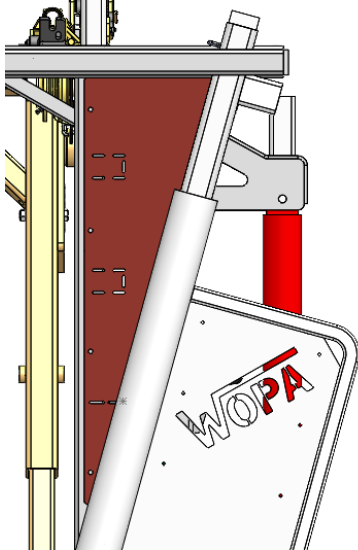
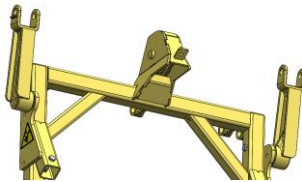
Installation, maintenance and service work may only be carried out by employees specifically trained for this purpose.

2.2 Safety devices

Various devices have been provided to ensure safe operation and to avoid hazards. The installed devices may only be removed by an authorised technician for maintenance or service purposes and only if strictly necessary.

Ensure that the safety devices are reinstalled before connecting the machine to the mains, switching on the main switch and putting the machine back into operation.

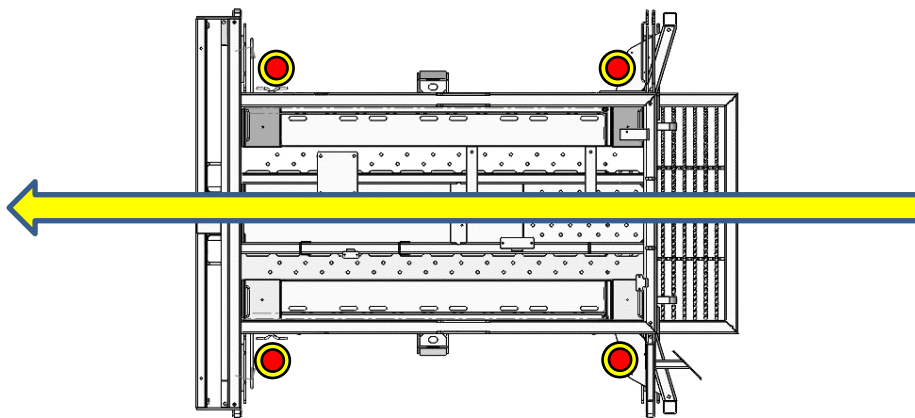
2.2.1 Guards around the frame

Position	Safety device
	Cover guard for the belly strap chain pulley.
	Cover guard for the rear leg cylinder.
	Guarding of rope drum under front leg support.
	Guarding of opening front gate.
	Guarding of rear leg chain pulley.

2.3 Emergency stops

Several emergency stop buttons are located around the frame.
When an emergency stop button is pressed, all processes are immediately stopped.

Reset the emergency stop button by pulling it out or twisting it, depending on the type installed, so the button returns to its original position.



2.4 Pictograms used



Attention!
General hazardous situation



Attention!
Electrical voltage present



Attention!
Possible finger or hand pinch hazard



Attention!
Drawing in of fingers or hand



Attention!
Entrapment hazard



Attention!
Striking hazard from swinging arm

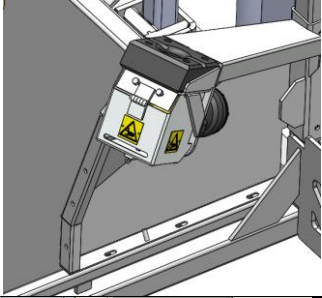
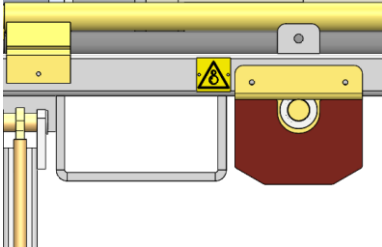
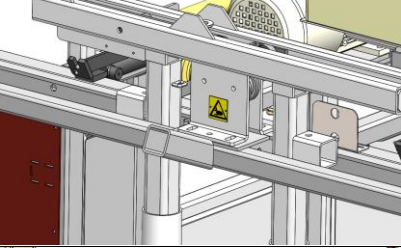
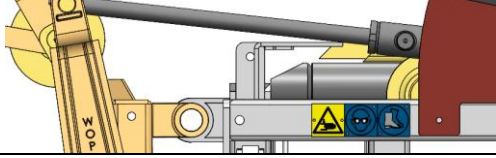
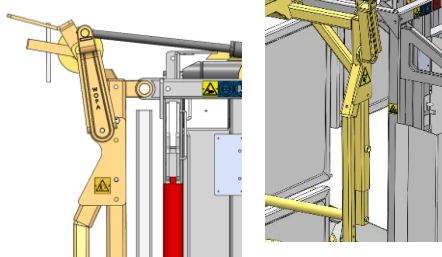
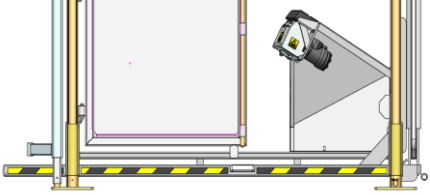


**Wear prescribed
safety glasses**



Wear prescribed safety shoes

2.5 Pictograms used at the location of possible hazards on the machine for operator and service/maintenance technician

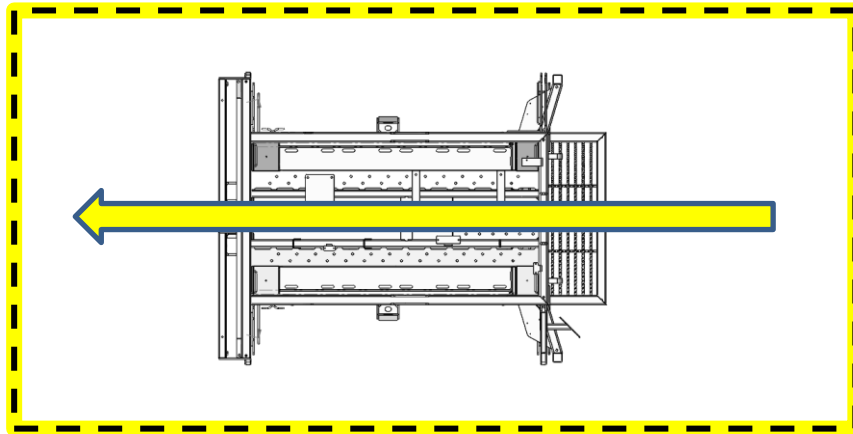
POSITION	HAZARD
	Entrapment of hands by the front leg hook.
	Risk of entrapment in the belly strap chain.
	Entrapment of fingers in the end stop of the front gate.
	Entrapment of fingers between the cylinder and frame.
	Risk of pinching fingers between the frame and tailgate.
	Risk of pinching fingers between the floor and crush when using the lift.

2.6 Machine area / Work area

Ensure that persons not involved in the operation or service of the treatment crush are kept at a safe distance when the treatment crush is in operation. Observe a minimum distance of 2 metres.

It is not permitted to go under a crush raised with the lift. If there is a fault in the installation, the crush could come down.

The operator and/or owner of the crush is responsible for this.



The machine area/work area must be free of obstacles at all times.

The machine area/work area may only be entered by the operator and service technicians.

3. Transport, positioning and installation

Transport and installation of the crush may only take place after consultation with WOPA. Any damage and consequential damage due to negligence in this respect are the full responsibility of the client/user.

3.1 Transport

- emarcate the transport area.
- While moving the crush, the route must be free of obstacles and uneven surfaces.
- The crushes are provided with fork pockets for moving the crush with a forklift.
- The machine should be moved and transported in an upright, horizontal position.
- Ensure stable positioning of the machine during transportation.
- Place the machine on a flat, stable surface that is not slippery.
- Stay out from under the machine.
- Use safety shoes.



3.2 Installation

Attention safety instruction!

Ensure that the installation is carried out safely without endangering people and animals in the surrounding area.

During installation, the main switch/isolating switch must be switched off and locked correctly.

	• Check the machine for damage. Check cables and pipes for damage. • Ensure that cables and pipes are not loaded or pinched during installation. • Any loose parts must be tied down during transport. Before commissioning the machine, these connections should be loosened. • Place the machine on a flat, stable surface that is not slippery. • The locally applicable regulations must be observed when connecting the machine. The installation must be connected by an authorised person. • Check that the voltage stated on the type plate is the same as the mains voltage. • The machine must always be connected to an earthed electrical outlet to avoid the risk of fire or electric shocks (the earth connection is coded green/yellow).
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4. Operation

CAUTION!	• It is prohibited to start the installation in an environment with an explosion hazard. • The operator is responsible for ensuring that machine movements are only started when no parts of their own or other people's bodies are in the vicinity of the pinch zones.
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4.1 Procedure prior to start-up

Before starting the machine, the following should be checked:

STEP	ACTION
1.	Make sure the various parts of the machine are free of residual material.
2.	Make sure all tools or other foreign objects are removed.
3.	Make sure there are no obstacles within the machine area.
4.	Check the cabling for breaks and replace damaged components.

4.2 Startup/shut down

	What to do	Action	Result
1.	Switch on the electricity.	• Insert the plug into the electrical outlet.	
2.	Reset the emergency stop buttons	• Zie 2.3	
3.	Press the start button	• Press the start button once.	The machine can be used.
4.	Switch off the electricity	• After working, always set the switch to 0 and remove the power plug from the electrical outlet.	

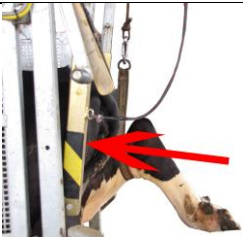
4.3 Restarting after an emergency stop

Before restarting the machine after an emergency stop, the Operator or Service Technician should ensure that the machine is manually returned to a safe state, such that no damage to the machine or injury to the operator and/or animal can occur during start-up.

The dangerous situation that caused the emergency stop button to be pressed should have been eliminated.

No.:	What to do	Action	Result
1.	Reset the emergency stop button	Reset the emergency stop button by pulling it out or twisting it, depending on the type installed, so the button returns to its original position.	
2.	Starting the machine	Press the start button to get the machine working again.	The machine is ready for use.

4.4 Production/in operation

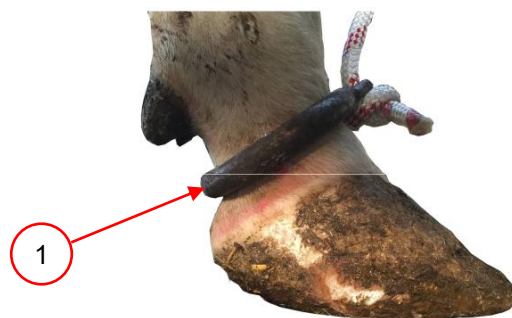
	What to do	Action	Result
1.	Check that the crush is ready for use.	See section 4.2	
2.	Prepare the front gate	Put the front gate in the catch position	
3.	Place the cow in the crush	- Lead the cow into the crush until its head is through the front gate. - Close the front gate.	
4.	Bring the back gate into position.	- Use the back gate lever to move the back gate downward. Place it against the cow. If the back gate is positioned too tight against the cow, this could cause injury to the cow!	
5.	Apply the belly band	Place the belly band under the belly behind the front legs and operate the belly band lever.	
6.	Lift	Once the lift is raised 10 cm, the front gate can no longer be operated.	
7.	Treat a rear leg	- Place the hook around the rear leg and lift the leg up. - Treat the rear leg - Lower the leg and release it.	
8.	Treat a front leg	- Hook the front leg as in Fout! V erwijzingsbron niet gevonden.. Raise the leg up until the leg is secured on the block. - Treat the front leg. - Lower the front leg back down and remove the front leg hook.	
9.	Treat the cow	- Open the bottom gate at the position where the cow needs care. When the lift is operated, the upper doors should be closed and secured with a cotter pin. - Perform the necessary treatments. - Close the respective side gate.	
10.	Loosen the belly band.	Operate the belly band lever to lower it to the ground.	
11.	Release the crush	Make sure all the hooks are free. - Open the front gate. - Lead the cow out of the crush.	
12.	Raise the back gate.	Operate the lever to raise the back gate.	

4.5 Hooking front leg



Watch for entrapment of hands and fingers when operating levers/buttons.

The leg is hooked with a large hook (**See picture point 1**).
When using the large hook, there is no risk of injury to the cow from over-tightening.



4.6 Releasing front gate in case of any problems

If the cow goes to the ground for any reason, you can lift the front gate out manually.

- Make sure the front gate is loose.
- Lift the front gate up and off the bolt.



4.7 Malfunctions

Malfunction	Cause	Solution
The front gate no longer opens and/or closes.	- The right-hand rear lift sensor may be too far from the lift pipe. - The small hammer on the valve may have become loose.	- Check whether the lamp lights orange. Move the lift sensor closer to the lift pipe. - Tighten the hammer with an Allen key in the same position as all the other hammers.
The motor no longer turns on.	- The main switch is off. - The start button is not pressed. - The circuit breaker in the electrical cabinet has tripped.	- Check that the main switch is set to '1'. - Press the start button. - Switch on the circuit breaker again.
The lights no longer turn on.	- The switch is off. - The fuse is blown.	- Turn the switch to '1'. - Check the fuse in the electrical box and replace it if necessary.
The lift goes up unevenly	There is dirt in the oil.	Push the lift lever for 30 seconds in one direction so the lift system resets itself.

If the fault cannot be remedied or if there

5. Maintenance

The correct operation and safety of the system can only be guaranteed if maintenance is carried out correctly and on time as stipulated.

CAUTION!	• Only trained technicians may perform maintenance work or make repairs. • Always disconnect the machine from the power supply by setting the switch to 0 and disconnecting the plug. • The installation may not be used during cleaning, inspection, repair or maintenance and must be disconnected from the electrical power supply using the plug and/or main switch. • Never perform welding work on the installation without first disconnecting the cable connection to the electrical components. • Never use the power supply from the control box to connect machines other than the hand tools provided. • Test the installation after maintenance work or repairs have been done to ensure the installation can be safely used again. • Regularly check that the pictograms and markings are still clearly identifiable or legible. Replace them if this is no longer the case.
CAUTION!	• Parts of the hydraulic system can reach high temperatures. Contact with these parts can cause injury. • Never unscrew hoses and pipes during operation due to high pressure.

5.1 Maintenance diagram

The diagram below shows the maintenance activities that must be done.

Activity	Note	Daily	Weekly	Every 100 cows	Annually	Every 2 years	Every 5 years	See section
General								
Check panic locks and hooks	Replace in case of visible damage							
Check ropes and chains	Replace in case of visible damage							
Check plugs, cables, controls and connections	Alert a qualified professional in case of visible damage.							
Replace guide tubes lift	Renew if there is visible damage							
Cleaning								
Cleaning the machine								5.2
Lubrication								
Grease nipples on back gate sliding section	Bearing grease							Fout! V erwijzingsbron niet gevonden.
Other grease nipples	Bearing grease							
Hydraulic installation								
Check the fluid level	Inspection is required every 500 animals or in case of leakage.							Fout! V erwijzingsbron niet gevonden.
Replace oil and filter								

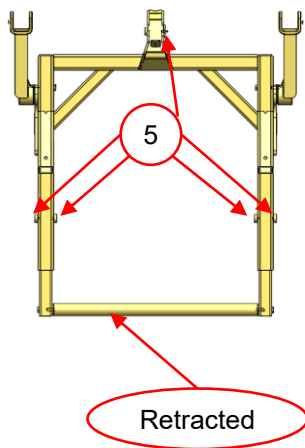
5.2 Machine reinigen

	- A pressure washer may be used for cleaning. - When cleaning with a pressure washer, avoid spraying on bearing points, winches and motors. This can lead to a sharp reduction of the service life. - When cleaning with a pressure washer, avoid spraying on electrical components. This can lead to short circuits and a sharp reduction of the service life.
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5.3 Lubricating the crush

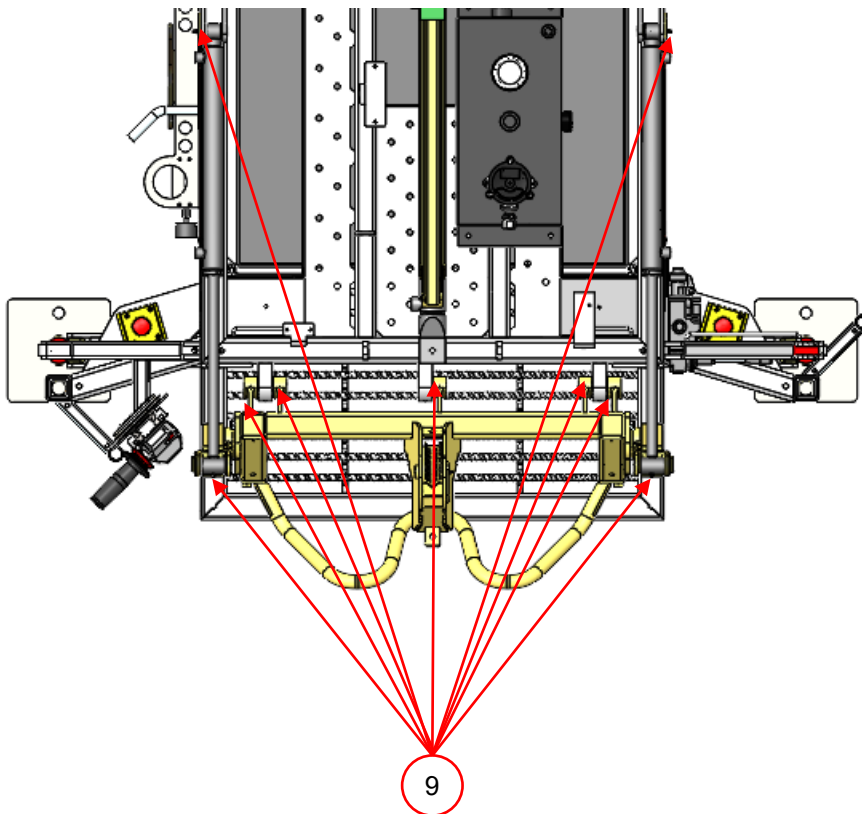
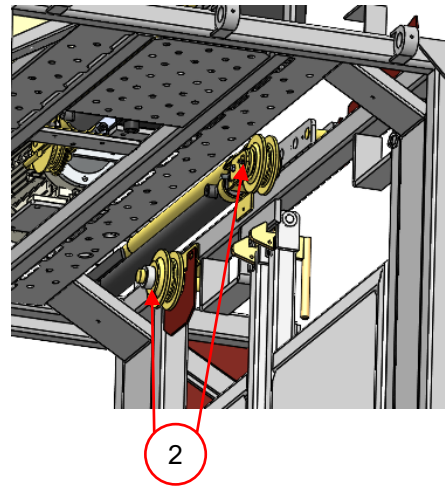
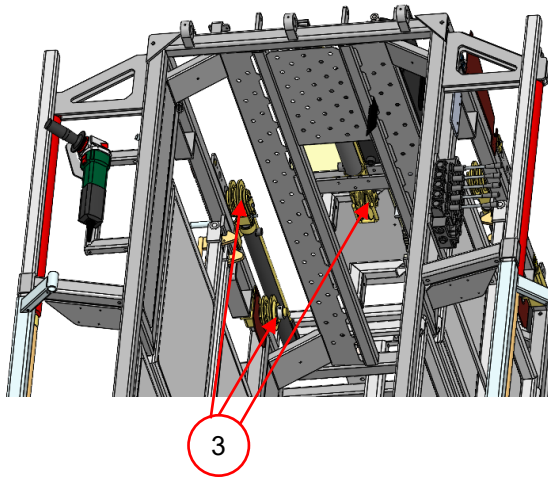
5.3.1 Lubricating the back gate

The back gate is extended using gas springs mounted in the gate.
To prevent grease entering the gas pressure spring area and causing damage, the gate should only be lubricated when the gate is fully retracted.



	What to do	Action	Result
1.	Retract the back gate	• Attach the rear leg strap or hook to the back gate and pull it up until the back gate is fully retracted.	
2.	Grease the nipples	• Lubricate the back gate nipples with a grease gun.	

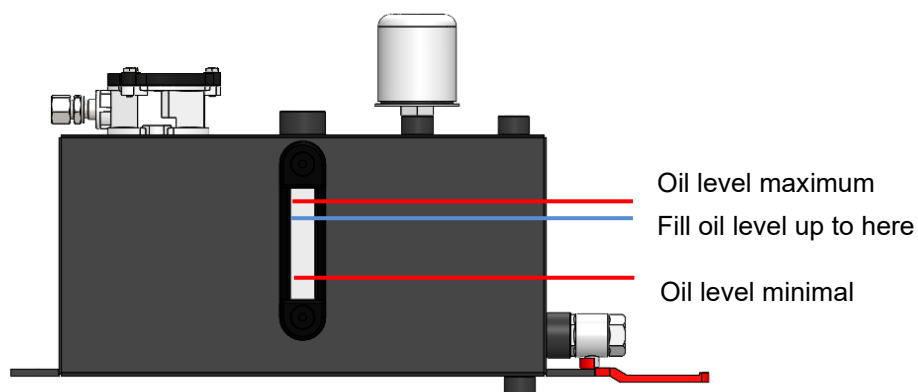
5.3.2 Lubricate other parts



5.4 Check the oil valve/change the oil

Checking the oil level ensures that the minimum necessary amount of oil is present. The cylinders must be retracted to do this. The plug must be unplugged from the electrical outlet. As a general rule, the oil and filter should be changed once per year.

5.4.1 Checking the oil level



	What to do	Action	Result
1.	Retract the cylinders	Place the cylinders of the installation in the retracted position by operating the valves.	
2.	Switch off the controls.	- Make sure the emergency stop buttons are pressed in. - Disconnect the power supply from the power source.	
3.	Check the oil level	The oil level should now be between the minimum and maximum levels (see instructions for “changing oil”).	

5.4.2 Changing oil

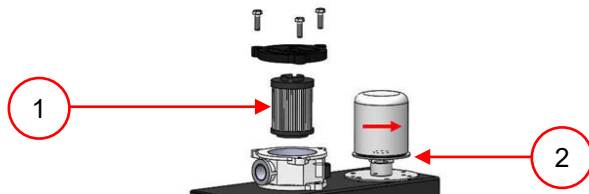
	What to do	Action	Result
1.	Bring the oil to the tank	See the instructions for "Checking the oil level"	
2.	Remove the plug from the power source	Remove the plug from the power source and make sure it cannot be plugged in.	The crush is not electrified.
3.	Empty the tank	Open the valve for the tank and drain the oil from the tank until it is empty.	The tank runs empty.
4.	Close the valve	Close the valve so no more oil can pass through.	
5.	Fill the installation	- This must be done at the filter. First, clean the outside of the cover and filter. Remove the cover of the filter at the top of the tank by unscrewing the bolts. Then remove the cover and fill the tank at the hole of the filter. - Use the correct oil.	
6.	Check the oil level	Fill to the level shown in 5.4.1.	
7.	Install new filters	Replace the filters.	
8.	Put cover in place	Install the cover and tighten it sufficiently.	

- The following types of oil are suitable for use in the hydraulic system:

Leverancier	Olie
Castrol	HYSPIN AWH – M 32 / 46
Mobil	UNIVIS N 32 / 46
Q8	HANDEL 32 / 46
Q8	HELLER 32 / 46
Texaco	RANDO 32 / 46
Texaco	HYDRAULIC OIL HDZ 32 / 46
Total	EQUIVIS ZS 32 / 46
Valvoline	100 ULTRAMAX HVLP 32 / 46
Petronas	HYDRAULIC HV 32 / 46
Gulf	HARMONY HVI 32 / 46
Shell	TELLUS S2 V 32 / 46
Shell	TELLUS T 32 / 46

5.5 Replace filters

Make sure the power supply is unplugged from the electrical outlet.
Undo the bolts and replace the oil filter (see picture point 1).
The tank is also equipped with a breather filter (see picture point 2).
This filters the air that enters the tank.
To replace it, it can simply be opened by unscrewing it counter-clockwise.



6. Dismantling and disposal

When dismantling the machine, the metal and plastic parts and electrical components can be disposed of at a suitable location without additional measures.

Dismantling must be carried out by authorised persons.

The oil should be collected and reused or destroyed in a lawful and environmentally friendly manner.

Do not dispose of oil and parts with household waste.



7. Technical information

	SA0042	
General		
Ambient temperature during operation	- 10 tot 40	°C
Noise production	< 75	dB(A)
Machine dimensions (base)		
Length	3120	mm
Width	1650	mm
Height	2370	mm
Electrical connection */**		
Power supply	1 of 3 phase	-
Voltage country-dependent	230 of 400	V
Required fuse	16	A
Connected load	3 of 4	kVA
Hydraulic installation		
Maximum operating pressure	145	bar
Tank filling capacity	17	litres
Oil type	See 5.4.2	

* See the electrical diagram

** If the crush is provided with a 230 V plug, it must be connected to an electrical outlet that is protected by a residual current device. (always according to applicable local regulations) (30 mA)

8. Appendix

EC DECLARATION OF CONFORMITY FOR MACHINERY (COPY)

(Conform appendix II, under A, Directive 2006/42/EC)



Manufacturer: Wopa Constructiebedrijf B.V.
Address: Rector Hulshofstraat 10
NL-7135 JV Harreveld
The Netherlands
☎: +31-(0)544 372415
E-mail: info@wopa.com
Website: www.wopa.com

Declare that:

Machine: Treatment Crush
Type number: SA0042
Serial number:

- Complies with the provisions of the Machinery Directive 2006/42/EC, as last amended (including safety requirements of Low Voltage Directive 2014/35/EU) and the national legislation implementing this Directive.
- Where applicable also complies with the provisions of the following EC-Directives: EMC-Directive 2014/30/EU

Following (parts of) harmonized standards are applied:

- EN-ISO 12100:2010;
- EN-ISO 13854:2019;
- EN-IEC 60204-1:2018;
- EN-ISO 13849-1:2016
- EN-ISO 4413:2010

Technical documentation can be applied for at the above address through management department.

The Netherlands - Harreveld,
Date: _____

J.W.A. Wopereis
Directeur