

User manual

Hoof trimming crush

SA0010



Manufacturer:

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Introduction

Wopa Constructiebedrijf BV specialises in development and manufacture of hoof trimming and treatment crushes for cows and bulls for professional users as well as for cattle farmers.

Our crushes are developed and manufactured in the highest possible quality, according to the strictest requirements as far as safety, user convenience, animal welfare and hygiene are concerned, always striving for an optimum.

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



- The machine is not suitable for use in explosive hazardous environments.
- All persons responsible for operation must, at minimum, read and comprehend the sections on operation and safety of these operating instructions.
- All persons responsible for assembly, installation, maintenance and/or repair must read and comprehend all these operating instructions.
- The user is responsible for interpretation and use of this manual under all conditions. Should you have any doubts or questions regarding the correct interpretation, please contact the owner or the supervisor.
- Keep this manual nearby the installation and within the users' reach.
- Keep a log of all major maintenance work, adaptations to the installations and observations, see Annex 8.1.
- Changes to the installation/machine are not permitted without prior written approval from the supplier.
- Contact the supplier for any special maintenance work not included in this manual.
- Comply with the safety requirements as given in Section 3 at all times.
- Proper functioning as well as the safety of the system can only be guaranteed if the recommended maintenance is carried out correctly and on time.

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.

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EC conformity declaration (copy)

We,

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declare, entirely under our own responsibility, that the product:

machine : Hoof trimmingcrush
type: SA0010

to which this declaration pertains, is consistent with the stipulations in Directives:

2006/42/EC (Machine Directive)

the following standards were taken into account:

NEN-EN-ISO 12100 Safety of machinery. Basic definitions, general design principles.
NEN-EN 349 Safety of machinery – Minimum gaps to avoid crushing of parts of the human body.





The undersigned is authorised to compile the Technical Dossier:

The Netherlands - Harreveld, September 2014

J.W.A. Wopereis
Managing Director




Overview of symbols

The following symbols are used for all actions that jeopardise the safety of the user and/or technician and require caution.

	Attention!
	Hazard: High voltage!
	Hazard: High temperature!
	Tip: Offers quick insight or tips to carry out certain actions more easily and simply.

Pictograms


A number of pictograms and alerts are affixed to the installation to indicate possible risks to users, among other things.

Pictogram	Description	Location
	<ul style="list-style-type: none"> Type plate 	<ul style="list-style-type: none"> On the machine frame
	<ul style="list-style-type: none"> Read the user manual Wear safety goggles when operating machine Wear hearing protection when operating machine. 	<ul style="list-style-type: none"> On the machine frame
	<p>ATTENTION!</p> <ul style="list-style-type: none"> Check regularly whether the pictograms and signs are still clearly recognisable and legible. Replace if this is no longer the case. 	


1. Technical information

	SA0010	
General		
Ambient temperature during operation	- 10 to 40	°C
Noise production	< 70	dB(A)
Machine dimensions		
Length	1350	mm
Width	1000	mm
Height	2000	mm
Weight	100	kg
Maximum product dimensions		
Length	2300	mm
Width	1000	mm
Height	2300	mm
Weight	100	kg

2. Description of the installation

	<p style="text-align: center;">FUNCTION</p> <ul style="list-style-type: none"> • This section gives an overview of the most important components and functions. If detailed information is available elsewhere in the manual, you are referred to the specific sections. • The design of your crush may differ from the figures below.
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2.1. Description of main components SA0010

	<p style="text-align: center;">FUNCTION</p> <ul style="list-style-type: none"> • The SA0010 was developed especially for dairy cattle hoof trimming in the barn
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The main components of the crush are shown in the illustration below:

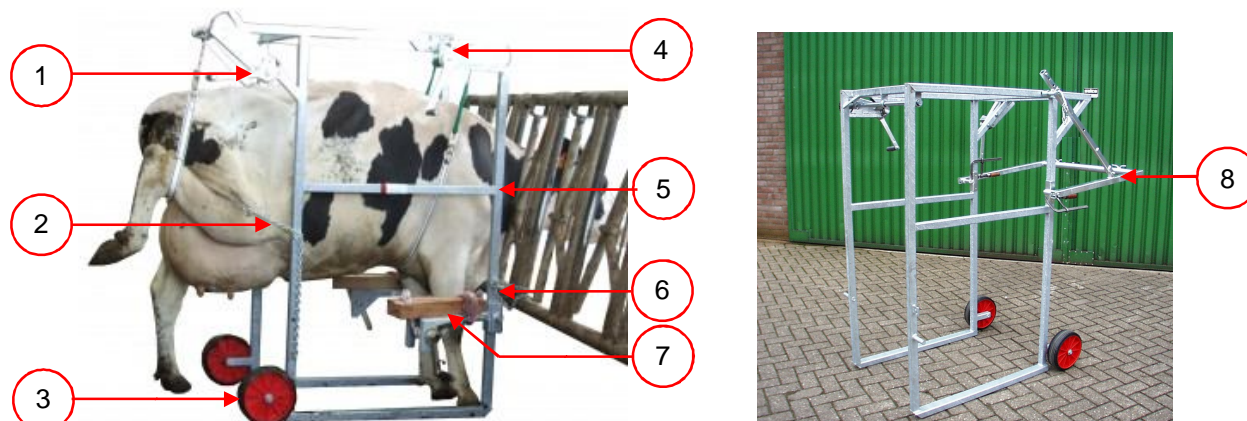


Figure 1: Overview SA0010.


Main components SA0010:

Figure 1	Component	Description	See Section
1	Manual hind leg winch	<ul style="list-style-type: none"> • After the strap is attached round the hind leg, the leg can be hoisted with the manual winch so the hoof can be treated. 	
2	Rump chain	<ul style="list-style-type: none"> • After the cow is moved into the crush, the rump chain is stretched tightly behind the animal and secured. 	
3	Transport wheel	<ul style="list-style-type: none"> • Once the SA0010 is tipped, it can be pushed to 	


Figure 1	Component	Description	See Section
		the next position on the transport wheels.	
4	Manual belly strap winch	<ul style="list-style-type: none"> Once the cow is moved into the crush, the belly strap is attached behind the front legs. The belly strap can be lifted using the manual winch. 	
5	Tipping frame	<ul style="list-style-type: none"> All components are attached to the tipping frame. To move the SA0010, the frame is tipped so it is on its transport wheels. 	
6	Attachment chain	<ul style="list-style-type: none"> The attachment chain secures the crush to the feed rack. 	
7	Front leg support	<ul style="list-style-type: none"> The cow's front leg can be secured to the front leg support with a rope so the leg can be treated. Optionally, the crush can be equipped with a front leg support with a winch, as in the figure above. 	
8	Backbar (optional)	<ul style="list-style-type: none"> The backbar is used to secure the hind legs. Once the locking pin is removed from the push rod the backbar can be folded up or down. 2 fastening points are installed to the back of the backbar to which one can secure the hind leg with a rope. 	

3. Safety


3.1. General

	<ul style="list-style-type: none">• The guarantee will lapse and no liability will be accepted in the event of damage caused by repairs and/or modifications not authorised by the supplier.• In the event of faults please contact the supplier.• The working area around the installation must be safe. The owner of the installation must take the necessary precautionary measures in order to operate the installation safely.• Starting up the installation in an area with a risk of explosion is prohibited.• The installation has been so designed that production is safe under normal ambient conditions.• The owner of the installation must ensure that the instructions in this manual are followed in practice.• The safety features provided must not be removed.• Correct operation and safety of the system can only be guaranteed where maintenance is carried out correctly and in good time, as prescribed.
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3.2. During normal use

	<ul style="list-style-type: none">• Check before commencing operations that no work is being carried out on the installation and that it is ready for use.• Unauthorised persons must not enter the operational area of the installation. It is the operator's task to check this.
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3.3. Operating personnel

	<ul style="list-style-type: none">• Operating personnel must be aged 18 or above.• Only authorised persons may carry out work with or on the installation.• Only work for which proper training has been received must be carried out. This applies both to maintenance activities and normal use.• The operating personnel must be familiar with all potential situations, so that rapid and effective action can be taken in an emergency.• Where a member of operational staff observes defects or risks or is not in agreement with the safety measures, this must be reported to the owner or the manager.• Safety footwear is mandatory.• Suitable work clothing is mandatory.• All employees must observe the safety instructions to avoid presenting a risk to themselves and others. Comply strictly with the operating instructions at all times.
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5. Operation

	<p style="text-align: center;">CAUTION</p> <ul style="list-style-type: none"> Take account of the instructions in Section 3 when carrying out any activity. Failure to follow these instructions may lead to serious injury.
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5.1. Production

No.	What to do	Action	Result
1.	Place the crush over the cow.	<ul style="list-style-type: none"> Drive the crush up behind the cow. Tip the crush over the cow. Secure the crush to the fixed feed rack with the chain. 	
2.	Attach the rump chain.	<ul style="list-style-type: none"> Tighten the rump chain around the animal and secure it. 	
3.	Apply the belly belt.	<ul style="list-style-type: none"> Place the belly belt under the belly behind the front legs and tighten it. 	
4.	Process a rear hoof.	<ul style="list-style-type: none"> Place the belt around the rear leg and raise the leg. Process the rear hoof. Allow the leg to drop and release it. 	
5.	Process a front hoof.	<ul style="list-style-type: none"> Pass the long, soft rope around the front leg below the dew claw and pull the leg up to the block. Wrap it around a couple of times and fasten the end to the hook on the side of the support. Or as an option: Where the front leg support is provided with a winch the front leg is hooked on as shown in 5.2. Turn the winch until the leg is fixed to the block, then run the short tension rope past the knee of the front leg and fasten it to the side of the front leg support using the hook. Process the front hoof. Release the short tension rope. Pull the pin on the side winch towards the hand grip with the index finger to release the rope. Unhook the rope. 	5.2
6.	Loosen the belly belt	<ul style="list-style-type: none"> Reverse the winch. Loosen the belt. 	
7.	Loosen the rump chain.	<ul style="list-style-type: none"> Loosen the chain. 	

No.	What to do	Action	Result
8.	Remove the crush.	<ul style="list-style-type: none"> Release the chain from the feed rack. Tip the crush back on its transport wheels. Drive the crush to the next location. 	

5.2. Hook up the front leg.



	<p style="text-align: center;">CAUTION</p> <ul style="list-style-type: none"> To avoid injury to the front leg the rope must be applied correctly. (see Figure 2)
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Figure 2: detail of hooking up front leg

6. Maintenance


	<p style="text-align: center;">CAUTION!</p> <ul style="list-style-type: none"> • Test the installation on completion of maintenance work or repairs to ensure that it can be used again safely. • Only trained technical personnel may carry out the maintenance activities described or repair work.
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6.1. Maintenance diagram


The diagram below shows the maintenance activities to be carried out.

Activity	note	Daily	weekly	Every 100 animals	Annually	Every 2 years	See Section
General							
Check on panic locks and hooks.	Renew where damage is visible.						
Check ropes and chains.	Renew where damage is visible.						
Cleaning							
Clean the machine.							6.2
Lubrication							
Other	Bearing grease.						

6.2. Clean the machine.

	<p style="text-align: center;">EXPLANATION</p> <ul style="list-style-type: none">• A high-pressure cleaner may be used for cleaning.• Avoid bearings, winches and motors when cleaning with a high-pressure cleaner. Spraying in these areas may result in a sharp reduction in service life.
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6.3. Parts

	<p style="text-align: center;">EXPLANATION</p> <ul style="list-style-type: none">• Consult the website at www.wopa.com for information on the available options and the parts available to order.
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7. Disposal as waste

Oil and components must not be disposed of as domestic waste. When replacing components or oil or at the end of the machines service life, ensure that all materials are collected and destroyed or reused in a legal and environmentally friendly manner.



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