

MS Hoof-trimming chute Electric MS Hoof-trimming chute Hybrid

Manual



MS Schippers
Webshop for farmers

Introduction

Congratulations on your new hoof trimming/care chute. Read this manual carefully and in detail before you start working with the hoof trimming chute. Remember at all times that you work with animals and deal with them in such a way that this chute is a tool to improve work for both people and animals.

MS Schippers and Damps solutions cooperate and are specialized in the development and production of hoof trimming and care chutes for cattle for professional users such as: claw care professionals, veterinarians and farmers.

Our chutes have been developed and produced according to the highest requirements in terms of safety, working comfort and hygiene, with animal-friendliness always paramount.

This manual contains information for the installation and operation of the hoof trimming chute.








Our hoof trimming chutes are designed and manufactured in the Netherlands in compliance with the latest European safety regulations, with special reference to the NEN3140 standards and Machinery Directive. Before transporting, installing or operating the machine, read this manual in its entirety and pay special attention to the specific safety instructions.

Users who are unable to understand any of the languages in which this manual is written should ask MS Schippers for a manual in their own language. The user must also provide training for any other person authorised to use the machinery.

Non-compliance in any way with these instructions, incorrect use of the machine, extraordinary maintenance work not carried out by competent, authorised personnel and/or employees, removal of data plates or affixed marks of any type, removal of or tampering with the installation and/or safety mechanisms of the machine or any other action not expressly permitted and which may affect the machine including the safety systems of the machine, shall release the supplier and the manufacturer from all and any liability and may result in serious injury and damage. This manual belongs to the machine and must accompany it even if it becomes the property of another person.

Symbols and pictograms

A number of pictograms and warnings have been affixed to the installation to draw the users' attention to possible risks. See below a diagram with all the symbols and pictograms used with the correct explanation and which, if needed, are on the machine.

Pictogram	Description	Location
Type plate <ul style="list-style-type: none"> • Description of type • Serial number • Max. hydraulic pressure • Year manufactured • Weight • Voltage: 	On the machine frame	
<ul style="list-style-type: none"> • Read the user manual • Wear safety goggles during machining operations • Wear safety shoes • Wear protective gloves 	On the machine frame	
Warning pictograms Pressurized system	On the machine frame	
Warning pictograms for mechanical and electrical hazards	On the machine frame	
Warning pictograms Rotating and moving parts	On the machine frame	
Risk of crushing	On the machine frame	
Pictogram for lifting Eyes	On the lifting eyes	
	ATTENTION! Regularly check that the pictograms and markings are still clearly recognizable or legible. Replace them if this is no longer the case.	

- The machine is not suitable for use in potentially explosive atmospheres
- All persons responsible for operation must at least fully read and understand the operation and safety sections of these operating instructions.
- All persons responsible for assembly, installation, maintenance and/or repair must read and understand all operating instructions.
- The user is responsible for the interpretation and use of this manual in all circumstances. Contact the owner or supervisor if you have any questions or doubts about the correct interpretation.
- This manual must be kept near the chute and must be within easy reach of the users.
- All important maintenance work, adjustments to the chute and comments must be recorded in a logbook.
- Changes to the chute are not permitted without the supplier's prior written approval, in this case MS Schippers.
- Contact MS Schippers for special maintenance work not included in this manual..
- Comply at all times with the safety requirements as indicated in the chapter 'Safety'.
- The correct functioning and safety of the system can only be guaranteed if the recommended maintenance is carried out on time and correctly..



Warranty

The warranty is subject to the following limitations. The warranty period for products supplied by MS Schippers is 12 months from the date on the purchase document. This warranty is limited to manufacturing and material defects and therefore does not cover failures caused by any part of the product that is subject to any form of wear and tear. Normal wear as expected when using this product is therefore hereby excluded.

1. The responsibility of MS Schippers is limited to the replacement of defective parts; we do not acknowledge any claims for any other form of damage or cost.
2. The warranty automatically expires in case of overdue or poorly performed maintenance.
3. If there are doubts about maintenance work or if the machine is not working properly, always contact the supplier.
4. The warranty does not apply if the defect is the result of improper or negligent use, or of maintenance carried out contrary to the instructions in this manual.
5. The warranty is void if the product is repaired or modified by a third party.
6. Defects arising from damage or accidents caused by external factors are excluded from the warranty.
7. If we replace parts in accordance with the obligations of this warranty, the replaced parts become our property.

Maintenance

- The machine must be maintained periodically, at least once a year, depending on its use.
- All moving parts and grease nipples (if there) should be smeared with bearing grease or lubricant.
- Check the entire machine and installation.
- Only trained technicians may perform maintenance or repair work.
- All maintenance and repairs must be recorded in the logbook.

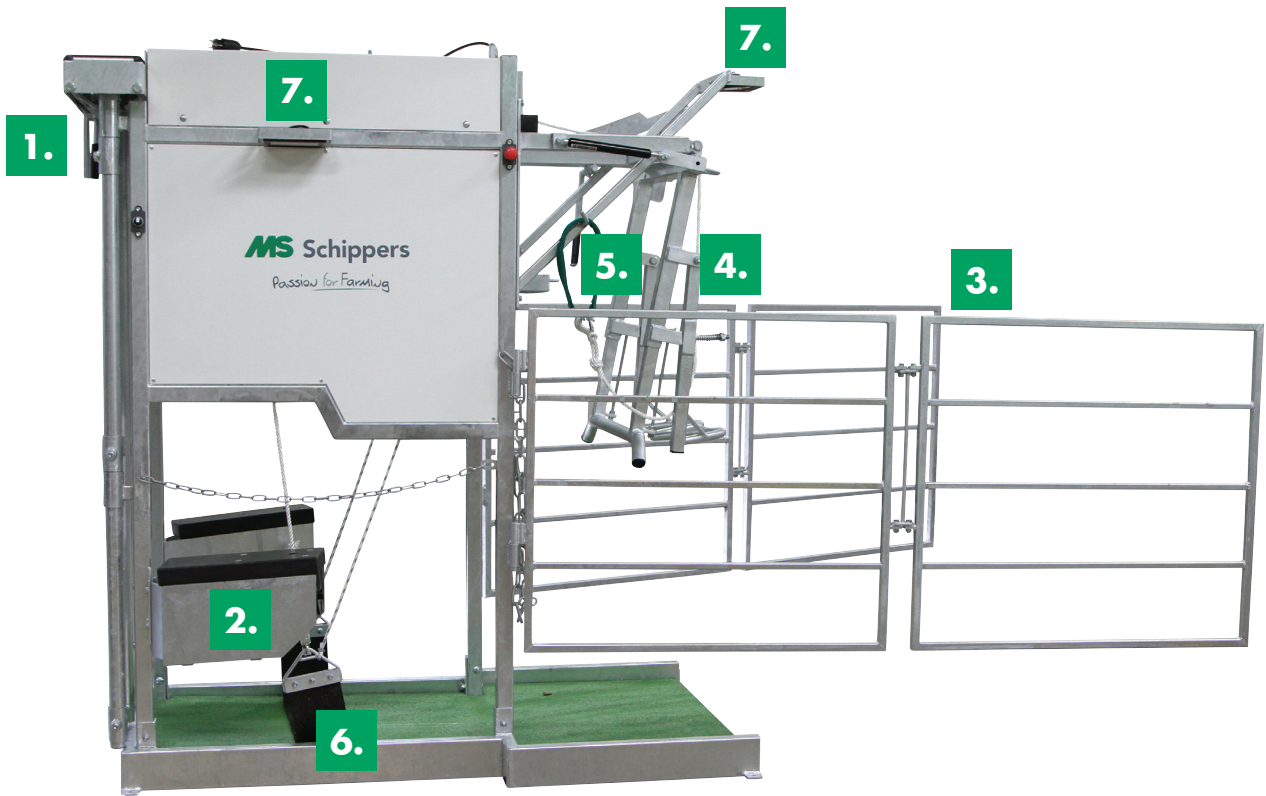
Test the machine after maintenance and/or repairs before using it again.

Technical information

General		
Ambient temperature at operation	-10 to 35	°C
Noise production	< 75 within range of 3 meters	dB (A)
Dimensions of the chute		
	outward	
Length	213 cm	
Width	120 cm	
Height	218 cm incl. material container	215 cm excl. material container
Weight	650 kg	
Dimensions of the chute		
	internal	
Length	165 cm	
Width	70 cm	
Width (between doors)	70 cm	
Height	180 cm	
Electrical connection		
Power supply	1	
Voltage country-dependent	230	V
Required fuse		A
Connection value	0.75	kVA
Hydraulic installation		
Maximum working pressure	210	Bar
Tank filling quantity	8	Litre
Oil grade	Hvi46	
Max. oil temperature		

Data for trailer		
Max payload Single axle	1300	kg
Own weight single axle	260	kg
Max payload Double axle	2000	kg
Own weight double axle	360	kg
Length	334	cm
Width	183	cm
Maximum drawbar load	100	kg
Clutch type approval	E100-0507 25kN	
Connector plug	7	pole





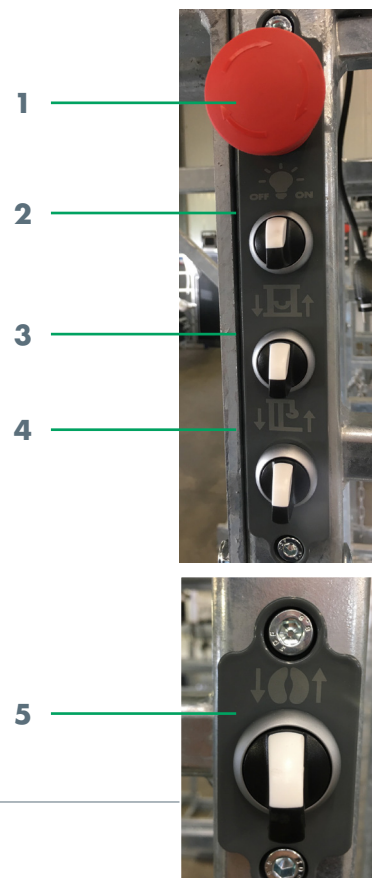
Description of the chute

Digit	Part	Description
1	Door	<p>The door can be manually or hydraulically set in 3 positions:</p> <ul style="list-style-type: none"> ■ Fully open: the cow can walk out of the chute at the front ■ Catch position: the cow's head can go through the door, but not the withers ■ Closed: the door is closed behind the cow's head
2	Front leg rest	<ul style="list-style-type: none"> ■ The cow's front leg can be secured to the front leg rest by using an electric winch, so that the front hoof can be worked on
3	Fence	<ul style="list-style-type: none"> ■ A fence for guiding the cows is a standard feature.
4	Back door Hydraulically or manually operated	<ul style="list-style-type: none"> ■ After the cow has been placed in the chute, the back gate is loosely placed against the back of the cow. There is a double rear leg fixation on the rear door, which increases the user's safety. Manual opening of the rear door is easy thanks to a gas spring.
5	Hind leg winch	<ul style="list-style-type: none"> ■ The rear leg can be lifted with the electronic winch. When the rear leg is lifted, the rear leg enters the double fixation bracket of the back gate so that the claw can be trimmed and cared for.
6	Belly girth	<ul style="list-style-type: none"> ■ When the cow is placed in the chute, the belly girth behind the front legs is electrically raised with a belly belt on a chain. The belly belt is for support
7	Lighting	<ul style="list-style-type: none"> ■ The on/off button on the right side of the chute, is there for switching the LED light on or off.
	Attention!	<ul style="list-style-type: none"> ■ When a winch ends, it automatically turns up again, but in the opposite direction. In that case, the description/symbol is no longer correct. The rotational direction changes.

Description of the chute

Operation

1	Emergency stop
2	Power lighting on/off
3	Belt belly high / low
4	Hind leg winch high / low
5	Front leg winch high / low



Electrical information

- The electric system provides the power supply for the electromotors and/or the hydraulic aggregate, lighting and wall sockets
- See the electrical diagram for the structure and operation of the electrical system. The diagram is in the machine's manual
- The location of the control components in your installation may differ from the picture below



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

Description of the chute

Figure	Part	Description
	power cord	■ To connect the machine to the power supply.
1	Emergency stop buttons	■ By pressing the emergency button, all movements and switches of the machine are stopped. This also applies to the sockets, with the exception of the lighting.
2	Sockets	■ 2x on the material arm
3	Control boxes	■ They contains the controls and the ground leak switch.
4	Lamps	■ Allows the workstation to be illuminated / provides more visibility of the claw



Description of the chute

Hydraulic installations (only applies if the chute has this option)



Hydraulics and safety

Hydraulic tools are tools that work on oil pressure. Working with hydraulic tools is not without danger. There is a risk of oil leakage. In addition, hydraulic tools are often used to exert great force and pressure, which entails risks for people, animals, machines, constructions and materials. Here are some general safety instructions:

General safety guidelines for working with hydraulic tools

Hydraulic pressure allows more force to be exerted than the muscle strength of a human being. Often the strength of this oil pressure is many times greater than the strength of people. This ensures that the hydraulic machine must be used properly and that the safety guidelines are observed. It is not possible to correct the machine by one's own efforts unless one uses the control of the machine in the correct way. The following safety guidelines are important when working with hydraulic machines:

- Do not wear long hair out, bracelets, chains, rings or long loose sleeves when working with rotating hydraulic tools.
- If more than 80 dB(a) of noise is produced, wearing hearing protection is an important safety measure.
- Use the hydraulic tool in the correct way for which it is intended.
- Make sure that the cables of hydraulic tools are not damaged.
- Protect the cables of hydraulic systems and equipment from overheating and fire.
- Make sure no one can trip over the cables of hydraulic tools.
 - Maintain the tool in the correct way.
 - Only experienced and expert hydraulic technicians may make adjustments to hydraulic installations.
 - Avoid hydraulic oil leaks.



<ul style="list-style-type: none">■ The various functions are driven by the hydraulic system.■ See the hydraulic diagram for a detailed description of the installation.■ The location of the control components in your installation may differ from the picture below.	
<ul style="list-style-type: none">■ Work on the electrical system may only be performed by a technical expert.■ Always ensure that the hydraulic system is depressurised when working on the system.	

Description of the chute

Figure	Part	Description
1	Valve block	<p>The valves can be used to control the following functions, if applicable</p> <ul style="list-style-type: none"> ■ Door cylinder(s) ■ Achterklepcilinder(s) ■ Lift cylinder(s) <p>The following valves can also be controlled via the remote control:</p> <ul style="list-style-type: none"> ■ Door cylinder(s) ■ Achterklepcilinder(s)
2	Rotary switch	<ul style="list-style-type: none"> ■ Back door
	Rotary switch	<ul style="list-style-type: none"> ■ Doors
	Rotary switch	<ul style="list-style-type: none"> ■ lift <p>Operation to set the chute at the correct height (Caution: 30cm is the maximum working height with cow)</p>

Description of the chute

Safety

<ul style="list-style-type: none">■ The guarantee and/or liability lapses if damage is caused by repairs and/or changes that are not authorised by the supplier.■ In case of malfunctions, contact the supplier.■ The work area around the system must be safe. The owner of the installation must take the necessary precautions to operate the installation safely.■ It is forbidden to start the installation in a potentially explosive environment.■ The installation has been designed to ensure safety and working comfort under normal environmental conditions. Here, hygiene and animal comfort are also taken into account.■ The owner of the installation must ensure that the instructions in this manual are followed.■ The existing protection devices must not be removed.■ Correct system operation and safety can only be guaranteed if maintenance and inspection are carried out correctly and on time, as prescribed.■ If work is necessary on the installation, the installation must be disconnected and blocked from the power supply, and pressure must be removed from the system.■ There is a danger of crushing when operating powered movements. It is the responsibility of the operator that movements are only started if there are no limbs of his own or of third parties in the vicinity of the bottleneck zone.	
<ul style="list-style-type: none">■ Only authorised persons, designated by the owner, may carry out work on the electrical installation.■ Ensure by internal procedures and supervision that all applicable power supplies are disconnected.■ The system must not be used during cleaning, inspection, repair and maintenance and must be disconnected from the power supply using the plug and/or main switch.■ Never carry out welding work on the system without disconnecting the cable from the electrical components first.■ Never use the power supply of the control box to connect machines other than the intended hand tools.	

Description of the chute

During normal use

- Before starting work, make sure that no work is being done on the installation and that it is ready for use.
- Do not allow unauthorised persons to enter the installation area. Checking this is the task of the operator(s).
- Parts of the hydraulic system can reach high temperatures. Touching these parts can cause injury



Operating staff

- Operating staff must be 18 years or older.
- Only authorised persons may carry out work with or on the system.
- Only work for which you are trained may be carried out. This applies to maintenance work and normal use.
- The operating staff must be familiar with all situations, so that in case of an emergency quick and effective action can be taken.
- If an operating employee notices errors or risks or disagrees with safety measures, this must be reported to the owner or the manager.
- Safety shoes are mandatory.
- Safety glasses are mandatory.
- Suitable work clothing is mandatory.
- Everyone must comply with the safety regulations, otherwise it is possible to create a dangerous situation for oneself and others. Always strictly follow the work instructions



Description of the chute

Installation

Explanation

- Refer to the Technical Data and the supplied diagrams for correct for the correct specifications



Places

ATTENTION

- The machine must be moved and transported in an upright position.
- Place the machine on a flat, stable surface
- Observe the instructions in the safety chapter for all work to be carried out. Failure to do so may result in serious injury.



Description of the chute



Description of the chute



Description of the chute

Connecting the machine


ATTENTION

- Check that the voltage indicated on the machine plate corresponds to the mains voltage.
- Always connect the machine correctly to a grounded outlet to prevent fire hazard or electric shock (grounding connection is green/yellow).
- The electrical installation, including the sockets, must be connected in accordance with the applicable local regulations.
- The power cord must always be free and nothing must be placed on it.
- If the power cord is damaged, replace it immediately.



Description of the chute

Operation

<p>ATTENTION</p> <ul style="list-style-type: none">■ Observe the instructions in the safety chapter for all work to be carried out. Failure to do so may result in serious injury.	
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Starting

No.	What to do	
	Make sure that the machine is safely and correctly positioned. Always make sure that all nuts and bolts are tight or have been tightened and moving parts are lubricated.	
1	Plug in the power cord.	
2	Check whether mains voltage is there	If no mains voltage, check: 1. Whether the emergency stops are deactivated. 2. Whether earthing leak device in the control box is switched on. 3. Check the home installation.
3	Activate the light by turning the knob on the right side of the box. If the light is working, the machine can be put into operation.	

Description of the chute

Emergency stop

ATTENTION

- In the event of a dangerous situation, always press the emergency stop button.
- Pressing the emergency button stops all movements and switches off the machine. This also applies to the sockets where the lights stay on.
- Before resetting the emergency stop, it must be ensured that the restarting of machine parts does not lead to a dangerous situation.
- In order to put the machine back into operation after an emergency stop, the emergency stop must first be reset.





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Passion for Farming

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