Manual



Double Breast Vaccinator

Made by Henke-Sass, Wolf GmbH in Germany







Contents

1.	. Introduction	5
	1.1 About this document	5
2.	. Safety and hygiene	6
	2.1 Characteristics	6
	2.2 Intended use	6
	2.3 Unintended use	6
	2.4 Safety	6
	2.5 Transport and storage	7
	2.6 Safety symbols and advices on type plate	7
	2.6.1 Fuse exchange	8
	2.7 Scope of delivery	9
3.	. General information	10
	3.1 Front / side view	10
	3.2 Top / back view	10
	3.3 Positioning	11
	3.4 Power source	11
	3.5 Correct chicken positioning	11
	3.6 Early release warning	11
	3.7 Recommended needle size	12
	3.8 Vaccine vial position	12
	3.9 Vaccine preparation for administration	12
	3.10 Dosage settings	12
	3.11 Dosage testing	12
	3.12 Spare parts and consumables	12
	3.13 Single injection / double injection	13
	3.14 Position sensors	13
	3.15 Breast plate type	13
	3.16 Injection angle / depth adjustment tool	14
	3.17 Cover	14
	3.18 Air bubble sensor	14
4.	. First steps	15
	4.1 Preparation	15
	4.2 Operation settings / display functions	17
	4.2.1 Home screen	17
	4.2.2 Counter settings	18



4.2.3 Info screen	19
4.2.4 Setup screen	20
5. Operation	21
5.1 Early release warning	21
5.2 Air bubble warning	21
6. Cleaning	21
6.1 Housing part cleaning	22
6.2 Housing disinfection (without syringe)	22
6.3 Recommended cleaning detergents	22
6.4 Disassembling and cleaning the syringe	22
6.5 Syringe disinfection	23
6.6 Recommended detergents for cleaning the syringe	23
6.7 Reassembling the syringe	24
7. Service recommendations	25
8. Spare parts and accessories	26
9. Declaration of conformity	28



1. Introduction

The HSW Double Breast Vaccinator has been designed to provide a modern, innovative and user-friendly device, which is easy to operate. Henke-Sass, Wolf is a well-known manufacturer of medical equipment for human and for veterinary applications with more than 100 years of experience. Latest R&D methods, a state-of-the-art production plant in Germany and highest quality standards are a lasting guarantee of our clear benefits to our customers' equipment needs.

The aim of this manual is to help you to understand how to install and use your new equipment. Before using the HSW Double Breast Vaccinator, please read this manual completely. In case you need further information about Henke-Sass, Wolf equipment, please contact us any time.

1.1 About this document

This user manual is part of the safety concept of HSW Double Breast Vaccinator.

- Read the user instructions carefully and follow the instructions for use.
- Keep the user instructions available anytime the device is in operation.
- Share the user instructions with all users of the HSW Double Breast Vaccinator.

Whilst reading the user instruction, note and observe the warnings on material damage, injury or death.

Warning symbol	Meaning
A Danger	Imminent danger! Non-observance of these warnings can result in death or extremely severe injuries.
Marning	Possible imminent danger! Non-observance of these warnings can result in severe injuries.
Caution	Dangerous situation! Non-observance of these warnings can result in minor injuries or material damage.
Note	Dangerous situation! Non-observance of these warnings can result in material damage.
()	Keep hands clear! Sharp and moving parts.



2. Safety and hygiene

2.1 Characteristics

- Device works with one energy source only requires electricity.
- Display guided chicken positioning gives real view of the chicken position.
- Easy cleaning due to fewer tubes, switches and parts.
- Smooth, sealed surface guarantees proper disinfection to maintain biosecurity.
- Crucial parts are completely separated and therefore protected from dirt, dust or particles.
- Touch LED screen to operate and use all functions of the device.
- Possible to switch on/off different alarm functions, e.g. batch counter, needle change.
- Bubble detector on vaccine tubes avoids false injection, so-called air bubble control.
- Measuring of dosage accuracy is not necessary due to preset dosage volumes.
- Easy needle replacement.
- Adjustable syringe position.
- Acoustic signal when injection is completed.

2.2 Intended use

The HSW Double Breast Vaccinator is intended to be used as an automatic vaccination device. It should be used to inject poultry vaccines into Layer or Breeder type chicken of the appropriate age. HSW Double Breast Vaccinator should only be operated by veterinarians or operators who have been instructed by a veterinarian. The HSW Double Breast Vaccinator and all its components are intended to be used within their chemical resistance. The HSW Double Breast Vaccinator may only be used with vaccines tested for compatibility with the device by Henke-Sass, Wolf.

2.3 Unintended use

The device is not intended to be used for vaccinating any animals other than those Layer or Breeder type chicken of the appropriate age.

2.4 Safety

^{Note} Read this manual completely before using the equipment. Only well-trained personnel should use the HSW Double Breast Vaccinator. Follow the operation and cleaning / maintenance instructions carefully.

- Always wear safety goggles when operating the device. In case of exposure of the eyes to the vaccine, contact a physician and show the vaccine package insert to him.
- For any maintenance or repair service, disconnect the device from the electricity supply.
- For any maintenance activity, make sure to disconnect the vaccine vial.
- Never place your finger or any other object in front of the syringe.
- Never try to manipulate the device, especially its safety functions
- For any maintenance activity, make sure the device is not operated.
- Use only new parts, supplied by Henke-Sass, Wolf to replace defective parts.

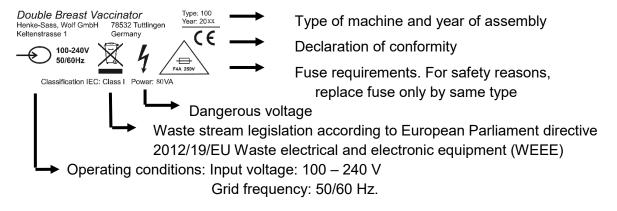


- In case other cables or adapters than supplied are used please make sure that there's always a PE (protective earth) connection, especially PE from the device to the power supply.
- ^{Note} Only healthy animals should be vaccinated.
- Note Device must be checked in regular intervals, at least every half a year (low voltage test).
- ^{Note} Place the device on a stable surface to operate.
- ^{Note} For proper disinfection, please boil the syringe before first usage.
- ^{Note} The device is designed to be operated indoor only.
- ^{Note} For proper operation the device can be used in areas up to 2000 meter above sea level.
- ^{Note} The device can be operated within a room temperature range from 5°C to 40°C and a relative humidity up to 90%.
- ^{Note} Mains voltage: voltage peaks must not exceed ± 10 % of the nominal voltage
- Note Overvoltage category II
- ^{Note} Pollution degree 2
- ^{Note} The maximum sound pressure level does not exceed 80 dB.
- ^{Note} Always place the device thoroughly in a way that the socket is accessible at all times in order to be able to pull out the plug
- ^{Note} The device may only be plugged into sockets that are equipped with a max. 10 A building fuse
- ^{Note} Please never replace the detachable power cord by inadequately measured power cords

2.5 Transport and storage

- Protect the product against external forces during transport (e.g. impact).
- Check the device for damage before use.
- Store the device at ambient temperature between 0°C and 45°C.
- Store the device under conditions where the ambient humidity is lower than 80%.
- Do not store the device under moist or wet conditions.

2.6 Safety symbols and advices on type plate





2.6.1 Fuse exchange

The fuse (AC 250 V, F4) can be exchanged by opening the fuse fixation on the back of the device with a screw driver. Replace a defective fuse by a new one, same type and insert the fuse in reverse order. Lock the fixation with the screw driver hand tight.







2.7 Scope of delivery

Item	Quantity	Item	Quantity
Double Breast Vaccinator	1	Breast Plate "Layer" type	1
Electricity plugs for different countries	3	Breast Plate "Breeder" type	1
Vaccine vial holder (incl. extension)	1	Reusable needles 1,2x25	12
Dripping chambers	5	Syringe spare part set	2
Syringes	2	Measurement tool	1
Allen key size 5	1	Dosage measurement cup	1
Fixation clamp / screw clamp	1	Lubrication oil	1



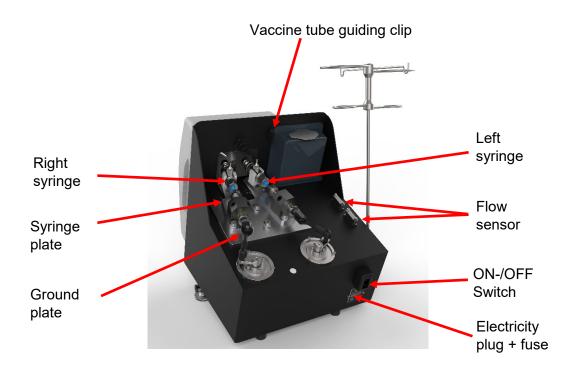
3. General information

All settings, necessary to operate the device properly, such as adjusting the speed, injection pressure or energy intake, have been made by Henke-Sass, Wolf. Therefore, it is neither foreseen nor necessary to open the lower, sealed part of the device by a user. Opening the lower part of the machine will change functional settings and lead to malfunction or damage of the device. Thus, we kindly ask you to only adjust settings that are especially described in the user manual and to not open any undescribed part of the device.



3.1 Front / side view

3.2 Top / back view



3.3 Positioning

The HSW Double Breast Vaccinator should be placed on a flat and stable surface of at least 30 cm (~12") wide and 30 cm (~12") in deep. It is recommended to fix the HSW Double Breast Vaccinator to an appropriate platform using a screw clamp or an equivalent tool. This will prevent the device from moving or falling during the operation.

3.4 Power source

The device is operated by electric power only. Connect the device with the right power connection to the electricity network. The machine works with an input voltage of either 100 or 240 Volts at a frequency of 50 or 60 Hertz.

- ^{Note} The device is equipped with a voltage transformer and will work properly without any adjustment needed, not matter if your local network voltage is 100 or 240 Volt.
- ^{Note} The device does not need and cannot be connected to a pneumatic power supply.

3.5 Correct chicken positioning

Position a chicken on the breast plate with its head up. The mould in combination with the device sensors and display will guide you on how to position the chicken properly.

See the display to easily find the perfect position to vaccinate the chicken. In the operation mode, the display and the device sensors show how to position the chicken:

- Sensor for proper left / right positioning of the chicken
- Sensor for proper breastbone position of the chicken
- Sensor for correct upright position of the chicken

 \rightarrow All three sensor indications will turn green, once the chicken is positioned correctly. At the same time, an injection is released and its proper administration will be confirmed on the display.

3.6 Early release warning

When separating a vaccinated chicken from the breast plate, before the injection has been administered properly, a warning appears on the display. To use this function, activate it as explained in section 4.2.4.

When using the early release warning in combination with the batch counter, the device will be blocked if the sensors detect an early release. The operator will be asked to "ignore" the improper vaccination or to "repeat" the injection. The batch counter will count the failed injection directly in case "ignore" is selected.

If "repeat" is selected, the injection will be counted after correct administration is completed.









Note: If the batch counter is turned off, this function will only indicate the "early release" once realized, but will not request further action from the user.

3.7 Recommended needle size

For good vaccination results, the device should preferably be operated with reusable needles of size 18Gx1" (1.2 x 25 mm). For your convenience, use HSW ECO[®] cannulas.



The vaccine vials should be positioned on the vial holder that is delivered with the device. Positioning the vaccine vial at a higher or lower level may cause problems, e.g. leaking or priming failures. During breaks from operation, close the vaccine supply.

3.9 Vaccine preparation for administration

Please refer to the package insert accompanying the vaccine or consult your veterinarian for further information.

3.10 Dosage settings

On delivery, the device is equipped with two syringes of 0.5 ml each. Any other dosage setting requires replacement of the syringe with a syringe appropriate for a different dosage volume. Upon request, Henke-Sass, Wolf will be happy to supply you with 0.3 ml or 0.25 ml syringes.

^{Note} It is not possible to adjust the dosage to other volumes without damaging the device.





3.11 Dosage testing

Use the measurement cup, which is packed by to each device for dosage testing. The priming function can be used to operate the syringes individually. For more explanation see section $\frac{4.1}{2}$.

3.12 Spare parts and consumables

For your convenience, the device is equipped with an assortment of consumables on delivery. Please find a list of all spare parts and consumables for continuous operation in this user





manual, section <u>8</u>. In case of questions regarding the device please contact Henke-Sass, Wolf any time.

3.13 Single injection / double injection

During the initialization phase the machine recognizes if it is equipped with one or two syringes. It also recognizes which syringe has been inserted. In case of only using one syringe, the second drive will not be operated. This initialization phase is carried out each time after the device cover is opened or closed.

3.14 Position sensors

^{Note} The sensitivity of the sensors is preset in the factory and cannot be adjusted. Do not under any circumstances manipulate the sensors. This causes malfunction and can only be readjusted in the factory.

The HSW Double Breast Vaccinators function for injection release is based on three sensors. These sensors are adjusted to release an injection once their required workload is reached. Therefore, place a chicken in right position until all three sensor indications on the screen turn green and an injection is released.

3.15 Breast plate type

The device can be used with two different sizes of breast plates:

- Layer, indicated with a "L" on the plate

- Broiler Breeder, indicated with a "B" on the plate.

Please be informed that there might also be a breast plate for young layers in the future that can be ordered separately.



Breast Plate installation

The breastplate is held in place using the fixations indicated.

To attach the plate, align the connections on the breast plate with the fixations on the device and move the breast plate towards the device.

Breast plate separation

To separate the breast plate, hold it on the left and right hand sides and pull it towards you.







3.16 Injection angle / depth adjustment tool

Each device is delivered with an internal adjustment tool. It is located on top of the internal display protection. The breast plate types are indicated on the measurement tool. Insert the marked side according to the breast plate in use to find the right settings.



3.17 Cover

To remove the cover, hold it with both hands at the back of the device and lift it. To close the cover, proceed in reverse order. At first, align the cover grooves with the front and then lower the back of the cover until it fits in place.

3.18 Air bubble sensor

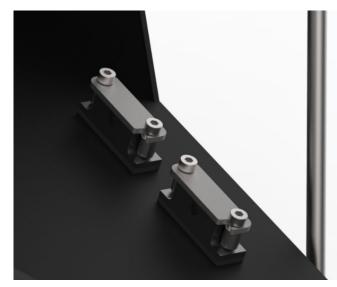
- ^{Note} Using a tube with outer diameter larger than 4 mm (0.16") will damage the sensors.
- ^{Note} Using a tube with outer diameter smaller than 4 mm (0.16") will cause malfunction.
- ^{Note} To ensure a proper function, use the dripping chambers supplied with the device.

The air bubble sensors will detect either proper vaccine supply or air bubbles in the vaccine tube.

^{Note} An air bubble warning may also be triggered when using a clear diluent. This can be resolved by adding a blue sterile dye to the diluent.

Thus, in case the air bubble sensor is not in use, please turn it off as explained in section <u>4.2.4</u> to prevent continuous warnings. All detections have to be confirmed for further operation. Warnings will appear again after confirming until

- a tube with vaccine is inserted into the sensor recess.
- the air bubble sensor function has been turned off.
- the air inside the tube has been removed.





4. First steps

The device has been completely assembled and packed by Henke-Sass, Wolf. Before starting to operate, unpack the device and all of its accessories. Check for any damage. See if the materials, listed under 2.7, are complete before first usage. Contact your consultant if the device is damaged or there are missing parts.

4.1 Preparation

Place the device on a stable platform (see 3.3). Fix it to the platform using the fixation bar and screw clamp provided or an equivalent tool.

The functions, explained in this section will **only** be possible with **detached closure**.

- For safety reasons, always keep fingers away from moving parts.
- Be aware of needles, syringes and vaccine coming out at the front.

Select the right electricity plug and connect it to the device and the electricity network. Remove the cover as explained in 3.17.

Separate the breast plate from the device as described in 3.15.

Initializing

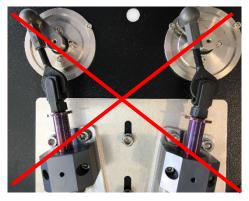
Turn the machines main switch to position "On"

Touch "Start reference" on start screen. The machine checks its motor positions.

When the warning sound stops, the reference drive has finished.

Note Each time you take out a syringe, please take care that the crank is in the correct position according to the picture below. If it is not in the appropriate position, the reference drive won't be carried out correctly.





Install a needle:

Touch "Needle Service" on screen.

Press the manual button to move the syringes to the front.

Unscrew the needle nut and insert a needle into the nut.

Screw the prepared needle nut onto the syringe.

Align the needle so that the long side of the tip is facing to the outside of the device.

Repeat the needle installation on the second syringe as explained above.

Touch "Needle home". The syringes will retract into the machine.

Touch "Done" to return to the setup screen.





Adjust the needle angle / length:

Attach a breast plate to the device

Touch "Needle Service" on screen.

Press the manual button to move the syringes out.

Use the adjustment tool to measure the proper settings.

Touch "Needle home" to release the syringe for adjustment.

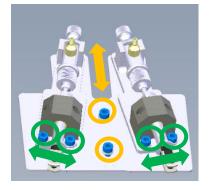
- To adjust the injection angle, loosen the screws marked in green.
- To adjust the injection depth, loosen the screws marked in orange.

After adjustment, lock the screws hand tight with an Allen key size 5.

Touch "Needle Service" on screen and press the manual button.

Use the adjustment tool again to measure if the adjustments are correct.

If adjustments are not correct, touch "**Needle home**" and repeat all previous steps. If adjustments are correct, touch "**Done**" to return to setup screen.





Priming the syringe:

Be aware of vaccine, coming out at the front of the syringes!



Machine supported priming:

Take a vaccine bottle and pierce it with a sterile needle. Place the bottle in the vial holder. (1)

Connect a dripping chamber to the vaccine bottle.

Attach the vaccine tube to the syringe. (2)

Open the flow control and ensure a free liquid flow.

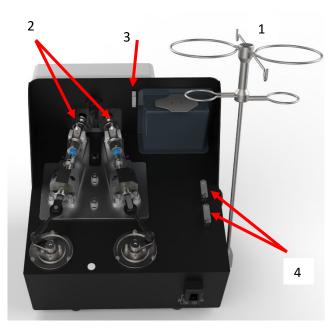
Guide the vaccine tubes through the tube-guiding clip. (3)

Guide the tubes through the flow sensor and close the sliders. (4)

Touch "**Prime left syringe**" on preparation screen. Push the manual button to simulate one injection and repeat this step until syringe is primed.

Touch "Done" to return to setup screen.

When working with both syringes, repeat this action with "**Prime right syringe**".



Afterwards close the lid and take care that the tubes are not jammed.

4.2 Operation settings / display functions

All functions, explained in this section will **only** be possible with **closure attached** to the device. Besides that, it is necessary that the breast plate is attached before the device turns into the operation mode in order to avoid an imbalance of the force sensor.

4.2.1 Home screen

After installation of the closure, the device returns to the **home screen** mode, showing the following:

- Number of syringes in use
- Batch counter
- Day counter
- Sensor load for proper positioning of the chicken:
 - Sensor for left / right positioning
 - Sensor for breastbone position
 - Sensor for correct upright position of the animal

Most of the device settings can be changed to suit user preferences and operational requirements using the display. Changes require a touch on "**UNLOCK**" for two seconds, first.



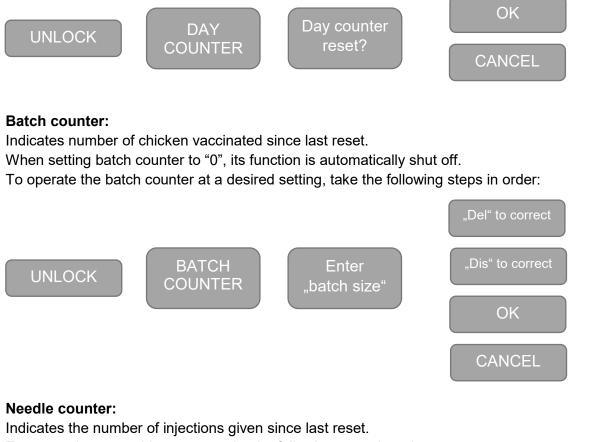
(only after first injection)



4.2.2 Counter settings

Day counter:

Indicates the number of vaccinated chicken since last reset. To reset this counter to "0", take the following steps in order:



To see and operate this counter, take the following steps in order:



After 1000 injections, the needle counter will request a needle change.

This will be indicated on the touch display. To stop this information, touch OK.

Change the needle and reset the counter to "0" to continue operation.

Without a reset, the counter will count the next 1000 injections until the warning appears again.

Bottle counter:

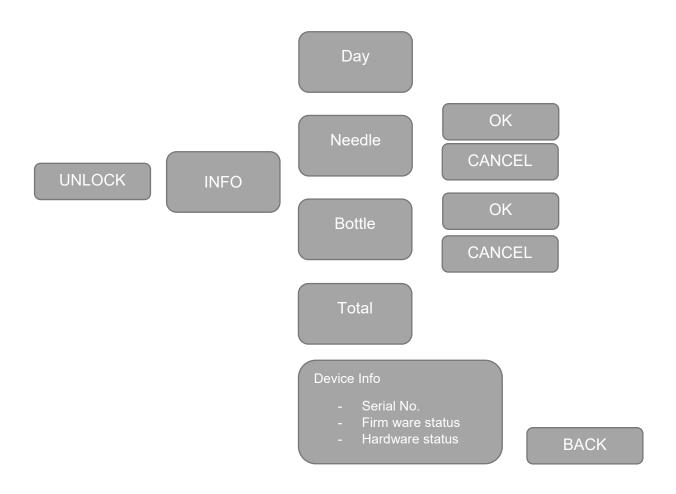
To see and operate this counter, take the following steps in order:



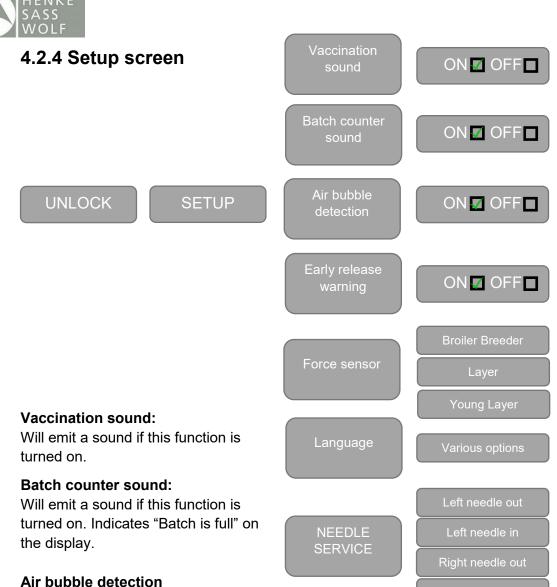


4.2.3 Info screen

This screen offers, besides the information about the counter, some basic device information. To see this information, take the following steps in order:



Total counter: Indicates the total number of injections given with the device. **Serial No:** Indicates the serial number of the device. **Firmware Rev:** Indicates the software status.



Detects air inside the vaccine supply, if this function

is turned on. Makes sure the tubes are installed properly to prevent unnecessary warnings. Ensures that all air bubbles are out of the tubes before starting to operate.

Indicates "Air bubble waring" on the display if air has been detected.

Check the supply on proper function.

Touch "OK" to accept the warning and continue operation.

Early release warning:

Will emit a sound if the chicken is released too early. It is possible to either repeat the injection or ignore the warning.

Force sensor:

Choose the sensor sensitivity according to the type of chicken.

Language:

Choose the language according to your preferences.

Needle Service:

Use this function to exchange the needle during operation. This service is only available after first injection.



5. Operation

When having applied all steps, explained in the previous sections, the device is ready to use.

- ^{Note} The first injection after preparing the device will be administered in slow motion to check all of the internal settings. After the first injection, the device will work at its normal speed.
- Please take care not to push the manual button once the chicken is placed on the breast plate. Pressing the manual button when the chickens are nearly placed correctly will already release an (early) injection.

During operation, the display shows the **home screen** which helps to guide perfect positioning for vaccination of the chicken. Remember that the three sensors have to be at a certain level to release the injection. Once this level is reached, the sensor indicators will turn green.

Hold a chicken with the head facing upwards and position it to the breastplate in front of the device. The breastbone will enter into the concave mould. For support, see the display to find the perfect positioning.

- Sensor for left / right positioning
 - Sensor for breastbone position
- Sensor for correct upright position of the chicken

Once, all sensors turn green, an injection is released and the proper administration is confirmed on the screen.

5.1 Early release warning

A warning appears on the display if a chicken is separated from the breastplate before the injection has been finished. For more information, see section 3.6 especially when using the batch counter in combination with the early release function.

5.2 Air bubble warning

In case of air bubbles inside the vaccine supply, or if a vial is empty, the air bubble sensors will emit an air bubble warning. This has to be confirmed by the user to be able to continue. For further actions, refer to 3.18.

6. Cleaning

For best disinfection results, this process should take place under sterile conditions. Operators, responsible for cleaning and disinfecting the device and its components have to wear single use gloves, a disposable overall, safety goggles and a disposable mask.

^{Note} Immersing the device in any liquid will damage or destroy its components.

^{Note} Do not use agressive media such as carbon tetracholoride, tri-chlorethylene, thinner, acetone or similar solvents to clean the device. This causes irreparable damages.



6.1 Housing part cleaning

Clean all external parts of the device with mild soap or detergent. The device is designed to be splash water proof.

- 1: Turn the HSW Double Breast Vaccinator off
- 2: Disconnect the device from the electricity supply.
- 3: Separate the upper closure from the device.
- 4: Remove needles from the syringes.
- 5: Separate the syringes from the device.
- 6: Wipe all surfaces with clean water to remove gross contaminations.

6.2 Housing disinfection (without syringe)

Disinfection is required after each vaccination session, when moving the device or its components to different locations and whenever a potential contamination threat must be prevented.

If the device has been cleaned as described in section 6.1, start at step 6.

- 1: Turn the HSW Double Breast Vaccinator off.
- 2: Disconnect the device from the electricity supply.
- 3: Separate the upper closure from the device.
- 4: Remove the needles from the syringes.
- 5: Separate the syringes from the device.
- 6: Clean the device as described in 6.1.
- 7: Depending on the disinfectant used, spray the device thoroughly e.g. with Gigasept[®] FF. Consult the disinfectant manufacturers guidelines for the specific disinfectant exposure time.
- 8: Wipe the device and all its components with distilled water.
- 9: Dry all parts of the HSW Double Breast Vaccinator with compressed air.
- 10: Allow all parts to dry completely.

6.3 Recommended cleaning detergents

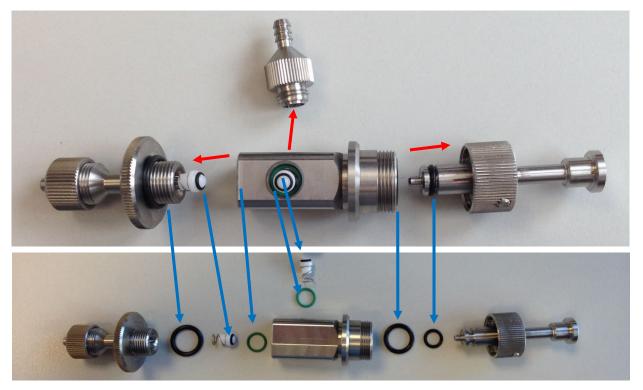
- Drinking water
- Distilled water
- Mild disinfectant
- Commercial disinfectants at recommended concentrations, e.g.:
 - Meliseptol®
 - Meliseptol® Foam pure
 - Gigasept[®] FF (neu)

6.4 Disassembling and cleaning the syringe

- 1: Separate the syringes from the device, close and disconnect it from the vaccine supply. Flush the syringe with warm water to wash away all cross contamination.
- 2: Disassemble it as shown.



^{Note} Be aware of small parts and handle all components with care.



- 3: Each component should be washed in a solution of mild detergent (i.e. rinsing fluid with a pH >5 and <8). Take care to properly clean the seats of the intake and exhaust gasket seals. A nylon brush can be used for this purpose.
- 4: Rinse all of the components with warm water again.

6.5 Syringe disinfection

- 1: Put all parts of the disassembled syringe in a pot.
- 2: Fill the pot with water and boil all components in this pot for 20 minutes.
- Take care that no washer or O-Ring touches the bottom of the pot. The bottom of the pot can reach more than 120° C, which may destroy these parts.
- 3: After boiling, rinse the syringe with distilled water.
- 4: Dry all parts with compressed air.
- Moisture within an assembled syringe may cause corrosion!
- 5: Replace all of the spare parts such as O-Rings and valves with new ones.
- 6: Apply a drop of oil to the O-rings and to the piston rod.
- 7: Reassemble the syringe as explained in section <u>6.7</u>.

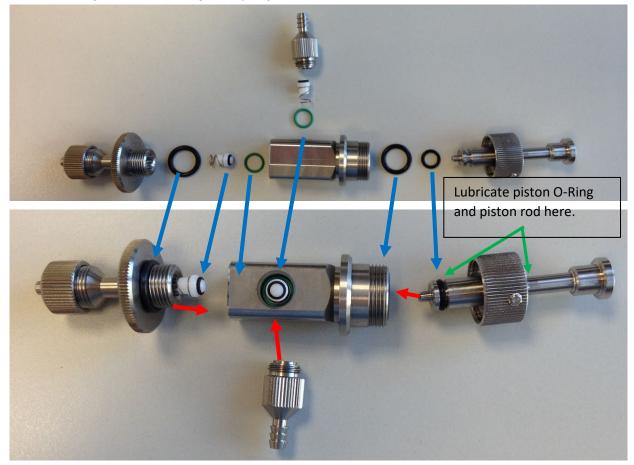
6.6 Recommended detergents for cleaning the syringe

- Drinking water
- Distilled water
- Ethanol at a concentration lower than 30%
- Commercial disinfectants at recommended concentrations, e.g.:
 - Meliseptol[®] Foam pure or Gigasept[®] FF



6.7 Reassembling the syringe

After cleaning and disinfecting the syringe, reassembled it as follows:



After inserting all parts, screw the

- Inlet valve into the main body of the syringe. Ensure that the cone valve is upright.
- Outlet into the main body. Ensure that the cone valve is upright.
- Plunger into the main body.



7. Service recommendations

In addition to suggested cleaning processes, it is recommended to change certain parts according to the list below:

Item No.	Description	Content	pcs / set	Replacement after	
8300033768	Spare Part Set				
		O-Ring 7 x 1mm	2	100.000	shots
		O-Ring 6 x 1,5mm	1	100.000	shots
		O-Ring 10 x 2mm	2	100.000	shots
		Cone valve incl. Spring and O-Ring	2	100.000	shots
8021120256	HSW ECO® Luer Lock reusable needle (18G x 1")		12	1.000	shots
8300025431	Dripping Chamber		1	Every Day	



8. Spare parts and accessories





Description	Item code
Closure	8300048417
Breast plate Layer-Breeder	8300032035
Breast plate Broiler-Breeder	8300033391
Vial holder	8300023934
Vial holder extension	8300035721
Cable clip	8300031915
Syringe 0,5 ml	8300031938
Syringe 0,3 ml	8300032006
Syringe 0,25ml	8300032007
Adjustment plate	8300039611
Fuse F 4.0A 5x20mm	8300036307
Injection depth / angle adjustment tool	8300033401
Syringe spare part set	8300033768
HSW Dripping chamber	8300025431
Reusable needles HSW-ECO [®] LL1,20x25 mm;18Gx1"	8021120256
Measuring cup 10ml	8300033891
Lubrication oil	8300027303
Needle nut	8300021989
	Closure Breast plate Layer-Breeder Breast plate Broiler-Breeder Vial holder Vial holder extension Cable clip Syringe 0,5 ml Syringe 0,3 ml Syringe 0,25ml Adjustment plate Fuse F 4.0A 5x20mm Injection depth / angle adjustment tool Syringe spare part set HSW Dripping chamber Reusable needles HSW-ECO® LL1,20x25 mm;18Gx1" Measuring cup 10ml Lubrication oil





9. Declaration of conformity



Wir, die HENKE-SASS, WOLF GmbH, Keltenstrasse 1, 78532 Tuttlingen erklären in alleiniger Verantwortung, die Über-einstimmung mit den folgenden Richtlinien:

- EMV-Richtlinie 2014/30/EU
- _
- Rischlinenrichtlinie 2006/42/EG Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten

We, the HENKE-SASS, WOLF GmbH, Keltenstrasse 1, 78532 Tuttlingen declare in our own responsibility the conformity to following directives:

- EMC-Directive 2014/30/EU
-
- Machinery Directive 2006/42/EG Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Diese Konformitätserklärung ist gültig für folgende Produkte: This Declaration of Conformity is valid for following Products:

HSW Double Breast Vaccinator

Die Produkte stimmen mit folgenden Normen überein: The products are conforming to following standards:

DIN EN 55011:2009 + A1:2010 DIN EN 61000-4-2:2009 DIN EN 61000-4-3:2006+ A1:2008 + A2:2010 DIN EN 61000-4-4:2015 DIN EN 61000-4-5:2015 DIN EN 61000-4-6:2014 DIN EN 61000-4-8:2010 DIN EN 61000-4-8:2010 DIN EN 61000-4-8:2010 IEC 61010-1:2010; AMD1:2016

Diese Konformitätserklärung ist gültig bis 31.12.2024. This Declaration of Conformity is valid until 31.12.2024.

Tuttlingen, den 22.09.2021

Ort und Datum der Ausstellung Place and Date of issue



HENKE-SASS, WOLF GMBH Kaltenétraße 1 78532 TUTTLINGEN Yel. + 49(0)7452/9455-0 · Fax 9466-5000

Firmenstempel

Company Stamp



Please contact Henke-Sass, Wolf GmbH if you need any assistance or spare parts.

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