

Straw blower

Type SHC R, SH

Operator's manual ENG

Read carefully before use



Manufactured by: Flingk Machinebouw B.V.

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FOREWORD

Flingk Machinebouw's SHC, SH straw blowers are high-quality machines that allow you to distribute straw quickly, efficiently and with high volume.

Before putting the machine into operation, read this operating manual carefully and follow its instructions. This will not only guarantee a properly functioning and efficient machine but you will also prevent unexpected damage and/or personal injury.

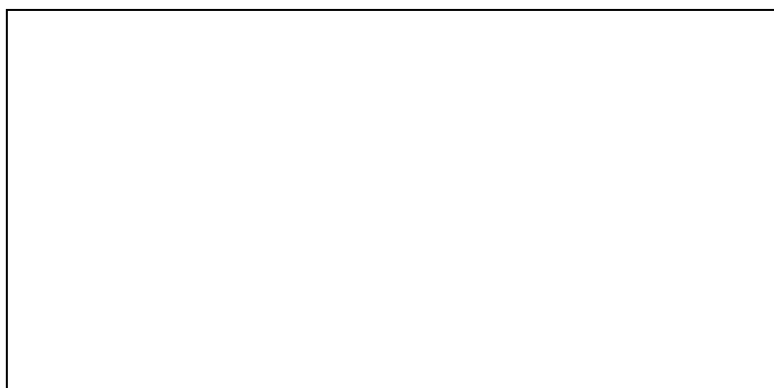
The machine is CE marked, and complies with all relevant European safety regulations. Nevertheless, when using, maintaining or repairing it, it is still necessary to observe the safety regulations as stated in this operating manual and in the operating manual of the driving vehicle.

Flingk Machinebouw strives for continuous product improvement. For this reason, it reserves the right to make changes at any time without obligation in respect of previously delivered machines.

If you still have questions after reading these operating instructions, please call your dealer or supplier.

Flingk Machinebouw wishes you a pleasant use!

Your supplier:



GENERAL SAFETY PRECAUTIONS

The SHC and SH straw blowers must only be used by persons familiar with the operating, maintenance and safety instructions described in this operating manual.

Before mounting the straw blower to the driving machine, first check whether the combination of the straw blower and the driving machine is safe. Here, pay particular attention to the maximum lifting and hydraulic power of the driving machine.

The Flingk straw blower is suitable for distributing straw and hay. Use the straw blower only for the materials described in the technical specifications.

Always observe the intended use of the straw blower. Never transport persons, animals or other goods outside the materials described in the technical data.

The straw blower is only suitable for use on private property, driving on public roads with this machine is not permitted. Always transport the machine in a safe and responsible manner as allowed on public roads.

Prevent unsafe situations, keep your distance from moving parts and, as an operator, make sure you always keep an overview of what is within the machine's working area.

Make sure there are no persons within the working area of the machine.

While loading the machine, make sure no one is between the straw to be loaded and the straw blower.

Maintenance and repairs should only be carried out by suitably technically trained personnel.

Maintenance, repairs and cleaning work should only be carried out when the straw blower is placed firmly and stably on a firm and level surface, and is not coupled in any way with driving vehicle, unless otherwise indicated.

Always have repairs to the hydraulic and electrical system carried out by Flingk Machinebouw or the dealer.

Before leaving the driving machine, always ensure that the straw blower is positioned on the on solid and level ground.



EC DECLARATION OF CONFORMITY
according to Annex II A of the Machinery Directive 2006/42/EC

Manufacturer and
holder of technical file:
Address:

Flingk Machinebouw B.V.
Retselseweg 11A
5473 HC Heeswijk-Dinther
The Netherlands

Hereby declares that the following machine

Flingk straw blower type: SHC, SH

from the serial number

Serial No. 87-19-5042

complies with EC Directive 2006/42/EC.

Heeswijk-Dinther, 1 September 2021

On behalf of Flingk Machinebouw B.V.,

Mr. Ing. N.C.W van den Berselaar

A handwritten signature in blue ink, appearing to be 'N.C.W. van den Berselaar', written over a faint circular stamp.

If any significant changes are made to this machine that could affect its safety or compliance with the regulations, its conformity must be reassessed and confirmed before the machine is put back into service.

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1 SAFETY

Before putting the straw blower into operation, read this operating manual carefully and observe all safety instructions.



DANGER!

This indication indicates: Risk of injury and/or danger to life. As soon as you see these indications in the operating instructions, take all necessary safety measures.

Safety stickers with warning pictograms are attached to the machine.

For safe use, it is important to know what these safety icons mean.

What is the hazard, where does the hazard occur and, very importantly, what safety measures must be taken.

Be alert and remain aware of the risks associated with using the straw blower! Below are the pictograms shown with their meaning.

- Before operating the straw blower, please read and comply with the operating manual and the safety instructions.



- Stop the motor, and prevent it from being re-started, as long as work is being carried out on the machine.



- Be careful for high pressure. Liquids that are subject to high pressure can lead to very serious injuries and even death. Always work carefully and make sure that all pipes are free of pressure when performing maintenance or repairs.



- Watch out for rotating components.
Make sure that no one is located near the rotating components before you decide to operate the straw blower. Remain a safe distance from the straw blower and never place your hands into the straw blower opening until you are absolutely certain that it cannot become operational again.
- Risk of crushing
Do not stand between the straw blower and the tractor. During connection, make sure there are no people or animals in the space between the straw blower and the tractor.
- Be careful for projectiles! Remain far enough away from the machine and stay outside the machine's blowing range. As the driver, make sure that no one is located inside the machine's blowing range.
- Be careful: risk of crushing.
Be careful for moving parts and keep limbs away from the machine.
- Make sure that the machine is connected to 12 Volt direct voltage.
Higher or lower voltages can cause damage to the electrical components.
- Marking lubrication nipple.
Check the operating manual to see when and how lubrication must be carried out.



2 NAMEPLATE DETAILS

The nameplate of the straw blower can be found on the tightening side of the machine. Bottom right next to the blower.

In case of correspondence, please state the type number and serial number of your machine. Complete the lines below with the details given on the nameplate of your machine.



- A. Machine :
- B. Type :
- C. Serial number :
- D. Year of build :
- E. Weight :
- F. F1 Max. flow (Q_{max}) [l/min] :
- G. F1 Max. pressure (P_{max}) [bar] :
- H. F2 Max. flow (Q_{max}) [l/min] :
- I. F2 Max. pressure (P_{max}) [bar] :
- J. Voltage [V] :
- K. Current [A] :

3 HOISTING INSTRUCTIONS

To move the Flingk straw blower, without being coupled to a suitable machine, lift it according to the instructions below.

When lifting the machine, take care that the machine does not make any unexpected movements.

Depending on the quick-change system fitted, the machine's centre of gravity will have moved. This will cause the machine to behave differently. Make sure no one is near the machine while lifting the machine.



Under no circumstances can anyone be underneath the machine.

Always be careful when using pallet forks, as the straw blowers are not made for this. This can damage the sheet metal on the underside of the straw blower, which can cause malfunctions.

Always check the lifting capacity of the lifting tool. The mass of the Flingk straw blower is shown on the rating plate and in chapter 5 of this manual.



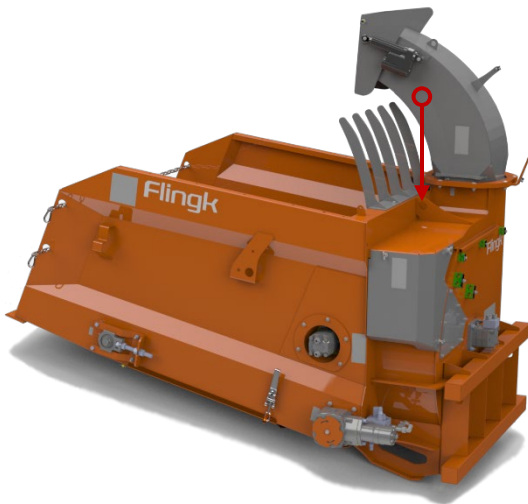
Ensure that the lifting strap or chain cannot touch the blowpipe during lifting under any circumstances to avoid damage!



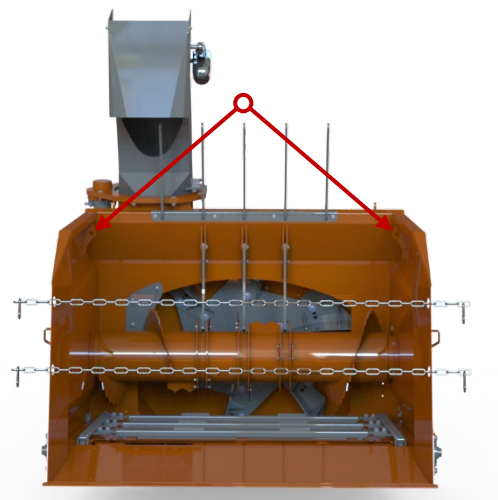
Your straw blower may differ from the straw blower in the illustration. As a result, it may behave differently during lifting. Do not start hoisting if you are not satisfied that it is safe!



The straw blower may only be lifted in the following manner when there is no straw left in the machine!



Lifting with central lifting eye



Lifting with lifting eyes in side walls using 2-leg chain sling

The lifting eyes of the SH are in the same place.

4 PRODUCT DESCRIPTION

With the SHC and SH straw blowers, you can quickly create an even straw bed from a wide distance. The bale is scooped up and sits on the bottom chain. The bottom chain transports the straw to a roller, which loosens the straw and feeds it dosedly into the blower. The blower, which is equipped with a fast-rotating impeller, then blows the straw through the blowpipe at high speed. By adjusting the direction of the blowpipe and the angle of the valve, the direction and spreading distance can be determined. Depending on the type of straw blower and litter, up to 15 metres can be blown far.

5 TECHNICAL SPECIFICATIONS

Model	SHC 1450 R
Suitable for	Straw, hay
Width (mm)	1625
Maximum straw pack size	
• LxWxH (mm)	1200x1200x1450
• Ø (mm)	Ø1500
Weight ¹ (kg)	720
Minimum oil yield required	35 L/min 175 bar
Maximum oil capacity ²	75 L/min 225 bar

Model	SH 2500 R
Suitable for	Straw, hay
Width (mm)	1750
Maximum straw pack size	
• LxWxH (mm)	1200x1200x2500
• Ø (mm)	Ø1800
Weight (kg) ¹	1440
Minimum oil yield required	50 L/min 175 bar
Maximum oil capacity ²	100 L/min 225 bar

¹ Weight excluding clutch. Weight may vary due to added options on the machine and clutch;

Shovel clutch +30-100 kg

Tractor coupling fixed+50 kg

² SHC Rs and SHs can be fitted with a flow pressure limiter if required.

6 COMMISSIONING



The straw blower must only be used by persons familiar with the operating, maintenance and safety instructions described in these operating instructions.

Before mounting the straw blower to the driving machine, first check whether the combination of the straw blower and the driving machine is safe. Here, pay particular attention to the maximum lifting and hydraulic power (oil pressure and oil flow) of the driving machine.

For more information on combination safety, refer to the operating and safety manual of the driving machine.

6.1 MOUNTING THE COUPLING

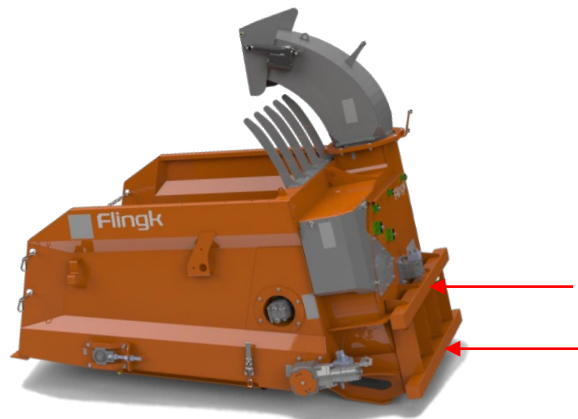


Only use the coupling developed and supplied by Flingk Machinebouw to connect the machine to a driving machine.



Fit the coupling using the fasteners supplied by Flingk Machinebouw.

The coupler should be mounted on the two tubes welded to the frame. The necessary fasteners are supplied with the coupling.



1. Tighten the fasteners hand-tight with the coupling approximately the right size.
2. If necessary, measure out the intermediate size of the coupling.
3. Also measure the width to the outside of the mounting sleeves and make sure the size is the same on both sides so that the coupling is centred.
4. Tighten all fasteners securely, be sure to use lock nuts.
5. Adjust any stops on the driving machine.
6. Before putting the straw blower into operation, fit the coupling to the driving machine to ensure it fits securely and is secured!

6.2 COUPLING THE MACHINE

The straw blower is suitable for attachment to a quick-change system or attachment to a three-point linkage. Depending on the type of attachment, follow the following instructions:

Fout! Verwijzingsbron niet gevonden. Fout! Verwijzingsbron niet gevonden.

6.2.2 Connection by means of a three-point linkage

6.2.1 Connecting by means of a quick coupler system



Before mounting the straw blower to the driving machine, first check whether the combination of the straw blower and the machine is safe. Here, pay particular attention to the maximum lifting and hydraulic power of the driving machine.

If the straw blower is fitted with a suspension for fastening using a quick-change system, always check that the combination, machine and straw blower, is safe and that the fixings fit together properly. For this, pay attention to the distance between the fixing holes both horizontally and vertically and the diameter of these holes. Before attaching using a quick-change system, always consult the operating manual of the driving machine and quick-change system.

1. Make sure the straw blower stands straight on a firm and level surface.
2. Follow the exact attachment procedure as described in the operating manual of the quick-change system.
3. After fixing, check that the pins are properly secured.
4. Connect the hydraulic hoses to the driving machine. In doing so, prevent oil from getting into the environment, and contamination in the oil!
5. Connect the hydraulic hoses.
6. Connect the electrical connection(s). For the standard SHC, the connection is on the control box in the cabin. For the electrical connection of the SH and the SHC with optional wireless control, a connection should be available on the boom. Make sure plus and minus are connected correctly!
7. Check the course of the hydraulic hoses and power cables! These must be long enough and must on no account be pinched or make too sharp a bend in any possible position of the straw blower in relation to driving machine.

6.2.2 Connection by means of a three-point linkage



Before mounting the straw blower to the driving machine, first check whether the combination of the straw blower and the driving machine is safe. Here, pay particular attention to the maximum lifting and hydraulic capacity of the driving machine AND top bar.

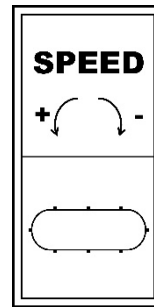
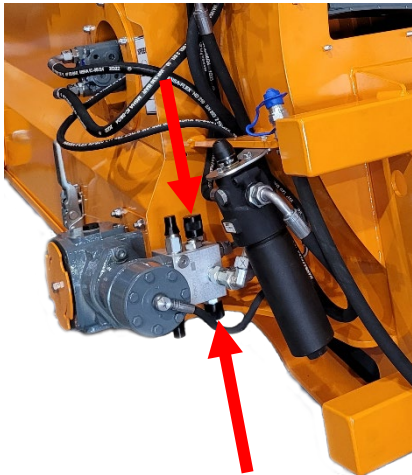
Mounting the Flingk straw blower suitable for attachment to a three-point linkage is as follows:

1. Make sure the straw blower stands straight on a firm and level surface.
2. Grease the pins and balls of the suspension and fit them to the straw blower according to the operating manual of the driving machine. Ensure that the correct balls, which fit the machine's linkage, are used!
3. Hang the straw blower on the linkage with the two lower balls and make sure they are properly secured, see the operating manual of the driving machine for this.
4. Attach the hydraulic top link and make sure it is properly secured, see tractor operating manual.
5. Connect the hydraulic hoses.
6. Connect the electrical connection(s). For the standard SHC, the connection is on the control box in the cabin. For the electrical connection of the SH and the SHC with optional wireless control, a connection should be available on the boom. Make sure plus and minus are connected correctly!

7. Check the course of the hydraulic hoses and power cables! These must be long enough and must on no account be pinched or make too sharp a bend in any possible position of the straw blower in relation to driving machine.

6.3 SETTING SPEED OF FEED CHAIN

By adjusting the speed of the bottom chain, more or less litter is fed to/from the roller. The speed of the bottom chain can be adjusted separately in both directions using rotary knobs on the crossover valve located on the bottom chain's hydraulic motor. The rotary knob at the top of the valve is for controlling the speed of discharge. The rotary knob at the bottom of the valve is for controlling the speed of supply. See photo below (SHC R with optional press filter)



6.4 SETTING SPEED OF ROTATABLE CHUTE



Adjust the rotation speed of the blower nozzle by small increments! The setting is very sensitive.

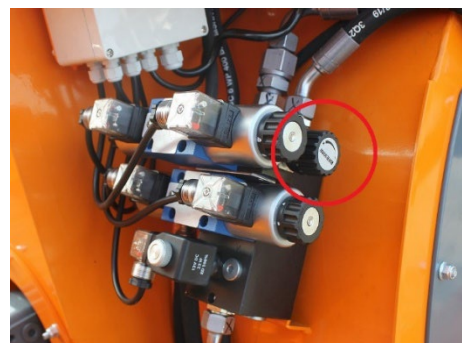


If the straw blower has been used recently, the hydraulic components may be hot! Beware of burns when the cover is removed!



Ensure that the blowpipe will not rotate at excessive speed. This may cause damage to hydraulic and mechanical parts of the blowpipe!

The SH and SHC R are equipped with a rotating nozzle whose rotation speed can be adjusted. The picture opposite (circled in red) shows the hydraulic valve block with rotary knob that can be used to set this. This valve block is located behind the cover above the hydraulic motor of the drive chain. When the hand knob is turned clockwise, the rotation speed of the blowpipe is reduced. When the hand knob is turned anti-clockwise, the rotation speed of the blowpipe will be increased.



The setting is very sensitive, so adjust the speed by small increments and then try if the set speed is desired.

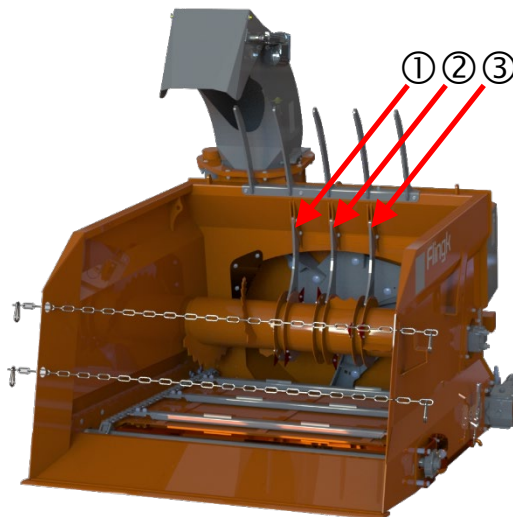
Ensure that the blowpipe will not rotate at excessive speed. This may cause damage to hydraulic and mechanical parts of the blowpipe!

6.5 COUNTER BLADES

6.5.1 Configuring counter blades

Above the roller of a straw blower are counter knives, see the image below of an SHC. (Numbering from left to right) These counter knives ensure a metered supply of straw/hay into the blower. Depending on the composition of the straw/hay (length, dryness and degree of firmness), the number and position of the counter knives can be varied. The SHC can have up to 3 counter knives mounted, the SH can be equipped with up to 5 counter knives.

Straw/hay composition	SHC	SH
Long, coarse straw/hay, often in round bales	1 counter blade, at position ② .	2 counter knives, at positions ②④
Uncut straw/hay in rectangular bales	2 counter knives, at positions ① and ③ . ³	3 counter knives, at position , ①③ & ⑤ ³
Short, fine and/or cut straw/hay	3 counter knives, at positions , ①② and ③ .	5 the counter blades, at positions , , ①②③④ ,, ⑤



The fasteners of the guides should be secured with liquid threadlocker (Loctite).

The rollers of the straw blower contain razor-sharp blades. Please be aware and alert at all times of the risks involved when working near these blades.

When working on the machine, make sure it is on a flat and stable surface. Switch off the driving machine and do not unexpectedly switch it on again; in addition, make sure that the hydraulic and electrical connections are not connected!

Besides the different counterknife configurations, more or fewer knives can be mounted on the roller. This strongly depends on the composition and dryness of the straw/hay being used, but also on the oil output of the driving machine. For advice on the correct adjustment, contact your dealer.

³ This configuration is most commonly used and is therefore the factory setting, unused counter blades are supplied separately.

6.5.2 Straw guides

The standard attachment rack of the SHC as shown in the paragraph above guides the bale of straw/hay so that it moves down towards the blower. When the machine is fitted with the optional attachment rack, the standard attachment rack is omitted. In this case, the side walls are raised, and interconnected with flap. The angle of the flap can be adjusted to guide the straw correctly. The SH is fitted with these side walls and flap as standard.



The fasteners of the counter knives and guides should be secured with chemical threadlocker (Loctite).



The rollers of the straw blower contain razor-sharp blades. Be aware and alert to the risks involved at all times when working near these blades.

7 OPERATING INSTRUCTIONS



Only use the Flingk straw blower for the purpose for which it is designed.



The rollers of the straw blower contain razor-sharp blades. Keep limbs away from the rollers.

Before using the Flingk straw blower, observe the following rules:

- Before commissioning the straw blower, ensure that the safety- /warning stickers are clean and legible.
- Make sure that the coupling between the driving machine and the straw blower is properly secured. Consult the manual of the driving machine for this.
- Always check the entire straw blower and hydraulic hoses for possible wear and defects before use, also the coloured (yellow/blue) dust caps should be used to protect the hydraulic couplings from dirt. (A press filter is an option recommended to prevent damage to the hydraulic system due to dirt in the oil e.g. from the couplings)
- Always check electrical cables for damage before use.
- Before use, always check that the roller rotates freely and does not run into anything. This should be checked when the machine is completely empty. If the roller cannot rotate freely, have your dealer rectify this problem.
- Always check before use that the blades are properly attached to the roller and cannot become loose during use.
- Always check before use that the impeller rotates freely and the blades are not damaged.
- Always check the condition of the bottom chain fasteners before use. If the carriers are damaged or deformed, they should be replaced before operating the machine.
- The straw blower must only be operated from the driver position of the driving machine.
- If unexpected straw (rope) has become stuck in the machine, disconnect the hydraulic hoses and electrical connections before removing the jammed material. Beware of the sharp blades!
- After jamming caused by an external object, have the entire machine inspected by your dealer before further use.
- Wear personal protective equipment during cleaning and maintenance work.

7.1 LOADING THE STRAW BLOWER

When loading an SHC, proceed as follows:

- Lay the bale, flat in line, on the ground. Remove the ropes, net or other binding materials.
- When the straw blower is equipped with the option clamp, make sure it is open.
- Tilt the straw blower slightly forward, making sure the blade in the bottom of the straw blower lightly touches the ground and the feet are slightly clear of the ground. See image ① below.
- Drive the straw blower towards the bale of straw, making sure it is positioned exactly in the middle of the straw blower.



Make sure the blowpipe valve is fully down during loading! If the straw blower is equipped with a rotating blowpipe, it is preferable if the blowpipe is facing to the side.

- Move the valve of the blower pipe to the desired direction. This works electrically. Turning the blowpipe works hydraulically and only works when the hydraulic function is switched on.

- Push the bale of straw as far as possible into the straw blower. Do not press too hard, this may cause damage! This can also cause the bale of straw to be too tight in the straw blower, preventing it from getting going.
- Tension the chains in front of the opening of the straw blower. This will prevent the straw from falling out of the straw blower while driving and while blowing. It also prevents access to sharp and rotating parts for persons or animals.
 - If the option clamp is fitted, raise the clamp before scooping the bale. Then lower the clamp over the bale. For a round bale, the clamp will lower to over the bale. For a rectangular bale, which does not fit all the way into the straw blower, the tines will remain on top of the bale. This is not a problem. When the straw blower is lifted, the tines will automatically lower. See image ② below
- Tilt the straw blazer backwards until the blazer is vertical. See image ③ below



Make sure the bale of straw does not pinch anywhere during loading!

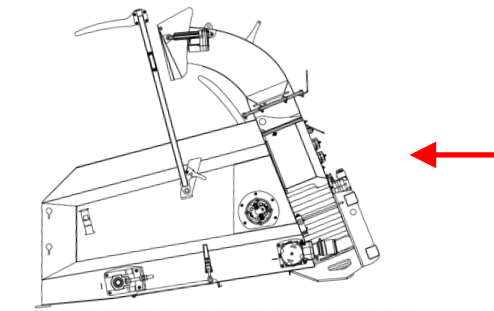


Remove all ropes or other binding materials to prevent jamming of the rollers! If a rope is wrapped around the rollers, stop spreading immediately and remove the rope(s) safely! This is described in chapter 8 Maintenance of these operating instructions.

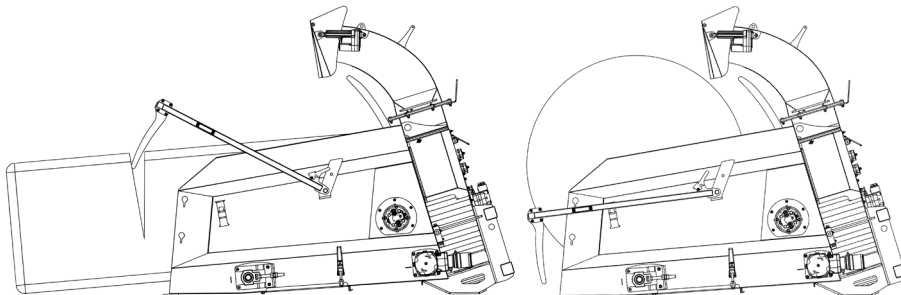


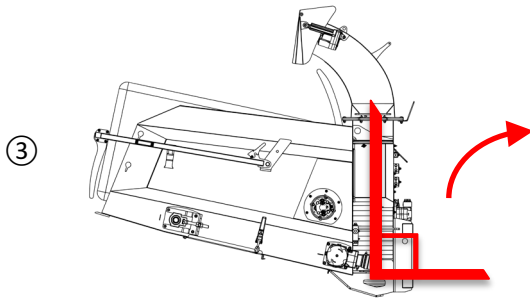
While loading the straw blower, make sure no one is between the pack of straw blower.

①



②





Loading an SH is similar to loading an SHC. When scooping, the hydraulic tailgate is opened until it is almost in line with the bottom of the SH, see the picture below. During step ③, the hydraulic tailgate should be partially closed, but care should be taken to prevent it from giving too much pressure.



7.2 DRIVING WITH THE STRAW BLOWER

When driving the straw blowers, make sure the loading opening is closed. On an SHC, use the chains or clamp for this, the SH by (partially) closing the hydraulic tailgate. Keep the machine low, this prevents possible imbalance and increases visibility of what is in front or behind the straw blower.

Make sure you make sure you have adequate visibility.



Under no circumstances must the machine be switched on while driving around the yard! When the impeller rotates, parts may be blown away unexpectedly.



The straw blower is only suitable for use on private property, driving on public roads with this machine is not permitted. Always transport the machine in a safe and responsible manner as permitted on public roads.

7.3 SPREADING



Prevent unsafe situations, keep your distance from moving parts and, as an operator, always keep an overview of what is within the machine's working area.

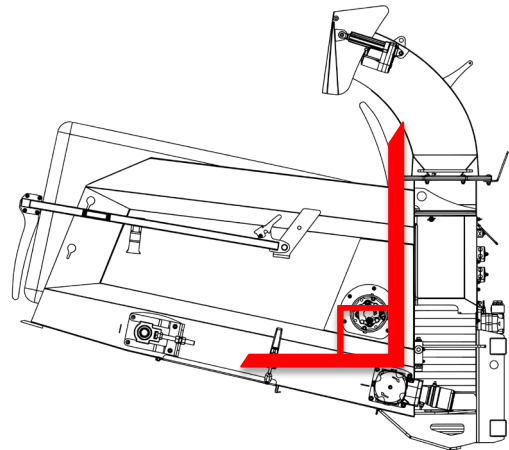


Make sure there are no persons or animals within the working area of the machine!

7.3.1 Spreading with an SHC

When spreading with the SHC, proceed as follows:

- Hold the blazer vertically as shown in the picture opposite.
- Make sure all ropes or other binding materials are removed from the bale of straw!
- Make sure the ② switch is in the neutral position so that the roller and bottom chain are NOT engaged/engaged.
- Switch on the control box using the main ① switch.
 - When the control box is wireless, press and hold the "Connect" ④ button on top of the control box after 2 seconds.
- Switch ③ can be used to determine the direction of flow. Moving the switch horizontally will rotate the pipe, allowing current to be directed in the width direction. Moving the switch vertically will change the angle of the blowpipe valve, controlling the distance of the flow. To avoid jamming the impeller, make sure that the nozzle valve is never fully down during spreading!



Ensure that the blowpipe will not rotate at excessive speed. This may cause damage to hydraulic and mechanical parts of the blowpipe! See Chapter Fout! Verwijzingsbron niet gevonden. for setting the rotation speed of the blowpipe.

- Power the hydraulic function on the driving machine, the impeller will start rotating.
- Let the impeller come up to speed (this takes a few seconds), switch on the roller and the bottom chain by moving the switch ② upwards. The litter now moves in the direction of the roller.
- Create an even layer by using switch ③ to move the blower nozzle and valve.
- When no more litter comes out of the blower nozzle, the straw blower should be refilled. It may also be the case that the supply is blocked. This can be solved by briefly reversing the bottom chain and roller. Switching switch ② down briefly (1-3 seconds) and then up again will restart the straw supply.

When stopping spreading with the SHC, proceed as follows:

- Stop the feed by first using the roller/bottom chain ②.
- When the blower and blower pipe are empty, move the blower pipe valve completely down, and rotate the rotating blower pipe to a safe position.
- Stop the hydraulic supply.
- After use, switch off the control box again with main switch ①.



To prevent jamming of the impeller, make sure the valve of the blower nozzle is never fully down during spreading!

7.3.2 Spreading with an SH

Spreading with the SH is similar to spreading with an SHC. The SH has a different control box with the same functionalities and corresponding symbols, as well as additional buttons for closing the tailgate. During spreading with an SH, the hydraulic tailgate will have to be gradually closed to feed the load lying on the tailgate to the chain. SH-type spreaders are equipped with a push button for switching the impeller on and off on the control box.

When stopping spreading with the SH, proceed as follows:

- Stop the feed by stopping the roller/bottom chain first.
- When the blower and blower pipe are empty, move the blower pipe valve completely down, and rotate the rotating blower pipe to a safe position.
- Switch off the impeller using the push button on the control box
- Stop the hydraulic supply.
- After use, switch the control box off again with main switch.

7.4 STABLES OF THE STRAW BLOWER

Always stable the straw blower with the blowpipe valve fully down on a flat and firm surface.

When disconnecting the straw blower from the driving machine, ensure that the hydraulic hoses and electrical connections are hung away clean, dry and fitted with dust covers.

Make sure that no people or animals can reach the sharp parts of the straw blowers. Close the chain/optional clamp (SHC) or hydraulic tailgate (SH) while the machine is stored



Make sure that the straw blower is not exposed to extreme weather conditions and when not in use, store the straw blower in a shielded area protected from rain, snow and ice.

8 MAINTENANCE



Wear personal protective equipment during cleaning and maintenance work.



Maintenance and repairs should only be carried out by suitably technically trained personnel and with appropriate tools.



Maintenance, repairs and cleaning work should only be carried out when fully disconnected (mechanically & hydraulically & electrically) and when the straw blower is in the reclined position on a firm and level surface.



Always have hydraulic and electrical system repairs carried out by Flingk Machinebouw or your dealer.



Make sure that the straw blower is not exposed to extreme weather conditions and when not in use, store the straw blower in a shielded area protected from rain, snow and ice.

Maintenance of the straw blower should be done as follows:

- Regularly check the roller for damage and wear. Check that the roller rotates freely and does not hit anything. This should be checked when the machine is completely empty and there is no straw in the machine.
- Always check before use that the blades are properly attached to the roller and cannot become loose during use.
- Always check before use that the impeller rotates freely and the blades are not damaged.
- Always check the condition of the bottom chain fasteners before use. If the carriers are damaged or deformed, they should be replaced before operating the machine.
- Check the tension of the bottom chain regularly. Tension the bottom chain when necessary. See chapter **Fout! Verwijzingsbron niet gevonden.** of these operating instructions.
- Regularly check the hydraulic system for damage and wear. The jacket of the hydraulic hoses must not be damaged under any circumstances.
- Regularly check the electrical system for damage and wear. Under no circumstances should the insulation of the cables be damaged or removed.
- Regularly remove the straw under the bottom chain. See chapter 8.1 of these operating instructions.
- Lubricate the bearings/lubricating nipples every six months or every 15 hours of use.

Position	Number	Straw blowers
Driven side bottom chain	1	SHC & SH
Tensioned bottom chain	2	SHC & SH
Roller	1	SHC & SH
Blow pipe, swivel head	2	SHC & SH
Cylinders hydraulic tailgate	4	SH
Pivot point hydraulic tailgate	2	SH
Blow pipe, valve cylinder	2	SH

- Change the gear oil of the bottom chain drive after the first 50 hours of operation. Then the oil should be changed after a maximum of 500 hours. Use SAE 80W90 transmission oil.
- Regularly check the indicator of the optional press filter, if present
 - Green: Press filter works well.
 - Red: The pot and/or filter element are dirty: filter should be replaced and pot emptied.

8.1 STRAW REMOVAL UNDERNEATH THE FEED CHAIN (SHC & SH)

Regularly remove the straw and dirt that is under the bottom chain. This prevents damage and wear on the bottom chain. To do this, follow the instructions below:

- Properly connect the machine to the driving machine, make sure the hydraulic and electrical connections are not connected!
- Place the machine on a flat and stable surface. Switch off the driving machine and make sure it cannot unexpectedly switch back on.
- From above, remove as much straw and dirt as possible from the front and back of the bottom chain.



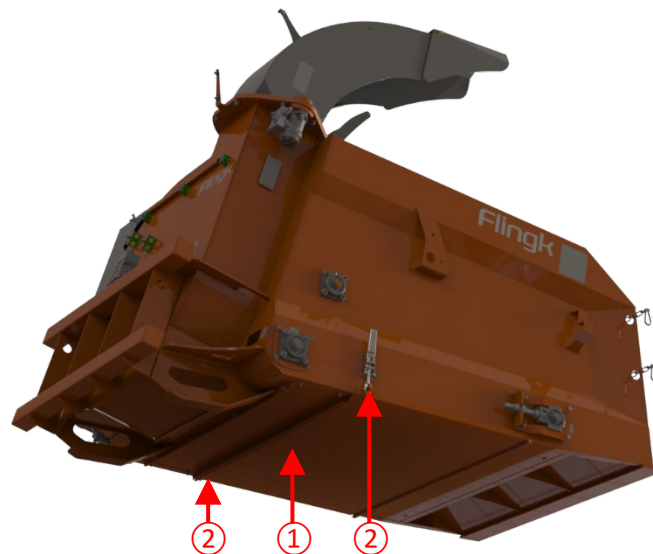
The rollers of the straw blower contain razor-sharp blades. Please be aware and alert at all times of the risks involved when working near these blades.

- When there is no one left in the straw blower bucket, properly couple the straw blower to the driving machine. Using the driving machine, place the straw blower on two suitable supports with a height of 120-150cm. The straw blower must be stable, even after the pressure on the driving machine drops.



Never stand under the machine, this creates a risk of entrapment! Stand beside the machine at all times!

- Switch off the driving machine again and ensure that it cannot unexpectedly switch back on. Make sure the hydraulic and electrical connections are not connected!



- Unlock the eccentrics ② (see illustration) on both sides of the machine and open the flap ① (see illustration). Lower the flap gently and then let it hang down freely.
- Remove the straw and dirt that is under the bottom chain as best you can. Use suitable tools for this if necessary.
- If desired, you can rotate the bottom chain for a while. This may be done in both directions. Under no circumstances should persons and/or animals be allowed near the rotating parts!



When running the bottom chain, make sure that nobody is near the rotating parts! Keep limbs away from the bottom chain and other rotating parts!

While the bottom chain is running, the driver should stay on the driving machine at all times and ensure that the rotating parts are always in sight!

- When the straw and dirt have been removed as much as possible, disconnect the hydraulic and electrical connections, close the valve ①, fasten the eccentrics ② and make sure they are secured.

Removing straw and dirt under the bottom chain of an SH is similar to removing straw and dirt under the chain of an SHC. However, the SH has 2 valves for better accessibility.

8.2 TIGHTENING FEED CHAIN

To prevent bottom chain failures, the bottom chain should be kept at the correct tension.



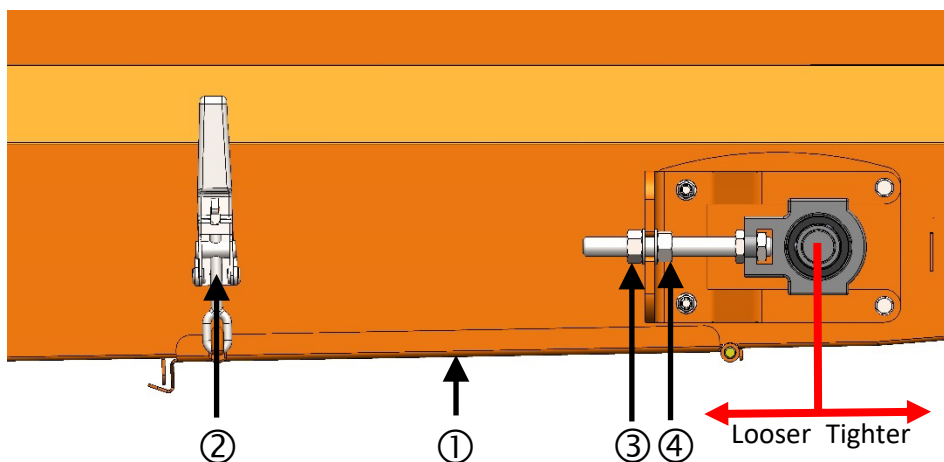
Only tension the ground chain when it is completely disconnected (hydraulically & electrically) and the driving machine is switched off!

- When there is no one left in the straw blower bucket, properly couple the straw blower to the driving machine. Using the driving machine, place the straw blower on two suitable supports with a height of 120-150cm. The straw blower must be stable, even after the pressure on the driving machine drops.



Never stand under the machine, this creates a risk of entrapment! Stand beside the machine at all times!

- Switch off the driving machine again and ensure that it cannot unexpectedly switch back on. Disconnect the hydraulic and electrical connections!



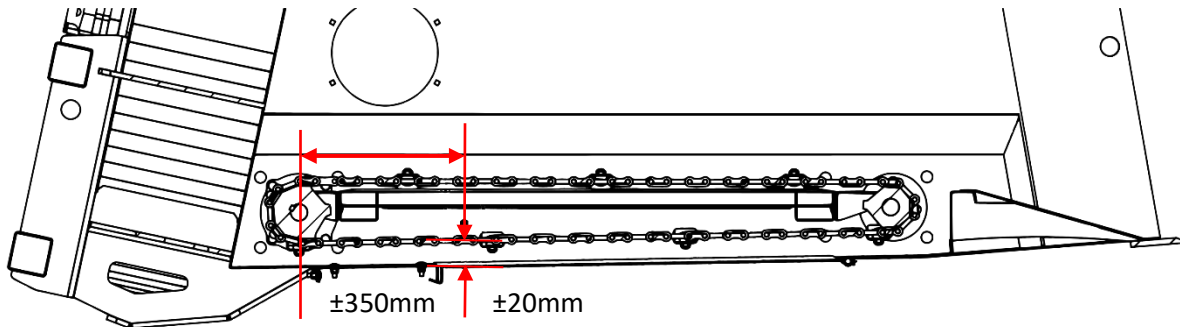
- Unlock the eccentrics ② on both sides of the machine and open the flap ①. Let the flap hang down freely. (In the case of the SH, there are 2 valves)
- Make sure there is little or no straw left under the bottom chain.

- Loosen the nut^③ of the tensioner. Do this on both sides of the machine.
- The adjusting nut^④ can now be used to adjust the tension of the bottom chain. Increasing the distance between the two shafts increases the tension of the chain, and vice versa.



Make sure that on both sides of the machine the distance AND the number of links between both axes is the same!

- The chain should connect to the sprockets. The distance between the bottom of the bucket and the lower chain is, $\pm 350\text{mm}$ from the centre of the driven shaft, $\pm 20\text{mm}$. See the following illustration. (On the SHC, this is at the level of the eccentric shackle) Do not lay the chain too tight!



- When the chain is in tension and the bearings are equally stretched on both sides, tighten the locknut ^③.
- Close the valve(s) ^① again, lock the eccentrics ^② and make sure they are secured.
- Test the tension of the bottom chain before recommissioning the straw blower: Let the bottom chain go around completely several times. The chain should run quietly around the sprockets.

9 ERRORS

9.1 ERRORS SHC & SH:

Problem	Cause	Possible solution
Lamp in orange on/off push switch of (wireless) control box not lit.	No power supply.	Check fuse, plugs/connection and power cables of driving machine.
	Control box fuse is broken, only on standard SHC R (not wireless).	Replace the 10A fuse in the control box. (1.005.717-01 POS 23)
The spreader does not respond to the control box. (Lamp in orange pressure switch does light up!)	Check LEDs on valve plugs to see if signal comes through.	LEDs stay off: signal does not come through: Check cables, plugs/connection from driving machine to straw blower.
		LEDs light up and the valves are switched: Check oil pressure and flow of driving machine. Check that the impeller is not stuck.
The impeller is stuck.	The impeller is blocked.	Switch off the driving machine and check that the machine is not clogged and/or the impeller is blocked. Switch off the driving machine and check that the hydraulic connections are properly connected.
No straw comes out of the blowpipe.	There is no straw in the machine.	Reload the machine.
	The fan stands still.	Switch off the driving machine and check that the hydraulic connections are properly connected. Switch off the driving machine and check that the machine is not clogged and/or the impeller is blocked.
	There is no supply of straw.	Check that the bottom chain and roller are driven.
The bottom chain AND roller do not rotate.	The hydraulic functions are not connected correctly.	Check that the hydraulic connections are properly connected and that there is pressure on the system.
	The roller and/or bottom chain is blocked.	Switch off the driving machine and remove the blockage. Beware of sharp parts!
	The electric control is not functioning correctly.	Check that the LEDs of the valve plugs are lit and the valves are switched. Check that the electrical connections are properly connected. Check whether the valve of the blower pipe is adjustable. Check that the fuses are intact.
The roller does spin, the bottom chain does not.	The speed control of the bottom chain is completely closed.	Open the speed control of the bottom chain a little.
	The bottom chain is blocked.	The bottom chain is blocked, this will cause the hydraulic motor to go through overpressure. Turn back the bottom chain and try again. If this fails, trace the blockage, see: " <i>The roller and/or bottom chain is blocked</i> ". above.

Problem	Cause	Possible solution
The roller does not turn, the bottom chain does.	Roller is blocked/clogged	The roller is blocked, this will cause the hydraulic motor to go through overpressure. Turn the roller back and try again. If this fails, trace the blockage, see: " <i>The roller and/or bottom chain is blocked</i> ". above.
The valve of the blowpipe cannot be adjusted in height.	The valve of the blower nozzle is blocked.	Check whether the valve of the blower nozzle is blocked and remove the blockage.
	The electric control is not functioning correctly.	Check that the LEDs of the valve plugs are lit and the valves are switched. Check that the electrical connections are properly connected and that the cables are not damaged. Check that the fuses are intact. Check that relay switches, when valve is raised or lowered. Check that the actuator is not defective.
The rotating nozzle does not rotate.	The electric control is not functioning correctly.	Check that the LEDs of the valve plugs are lit and the valves are switched. Check that the electrical connections are properly connected and that the cables are not damaged. Check that the fuses are intact.
	The hydraulic functions are not connected correctly.	Check that the hydraulic connections are properly connected and that there is pressure on the system.
	The blower nozzle is blocked.	Check if the blower nozzle is blocked and remove the blockage. Try turning the blowpipe the other direction.
	The rotation speed of the blower nozzle is too low.	Set the speed a little higher. See chapter 0 Setting speed rotating blowgun of this operating manual.
Bottom chain makes more noise and/or drags on the ground	Bottom chain has too little tension.	Adjust the tension of the bottom chain, see section Fout! Verwijzingsbron niet gevonden. Fout! Verwijzingsbron niet gevonden..
Bottom chain makes more noise, shafts of bottom chain deform (round)	Bottom chain has too much tension.	Adjust the tension of the bottom chain, chapter Fout! Verwijzingsbron niet gevonden. Fout! Verwijzingsbron niet gevonden..
Moving parts move stiffly and/or movement makes noise.	There is insufficient lubrication	Lubricate the moving parts, e.g. through the grease nipples on bearings and slewing ring (if SHC R or SH) and check with sight glass whether there is sufficient oil in the gearbox.
The tailgate no longer responds. (applicable to SH only)	The tailgate is blocked.	Check if the tailgate is blocked and remove the blockage. Try moving the tailgate in the other direction.
	The hydraulic functions are not connected correctly.	Check that the hydraulic connections are properly connected and that there is pressure on the system.

Problem	Cause	Possible solution
	The electric control is not functioning correctly.	Check that the LEDs of the valve plugs are lit and the valves are switched. Check that the electrical connections are properly connected and that the cables are not damaged. Check that the fuses are intact.

9.2 ERRORS OPTIONS SHC

Problem	Cause	Possible solution
The spreader does not respond to the wireless control box. LED in orange on/off button of wireless control box lit, LEDs of valve plugs do not respond to control box operation	The connection is broken.	Press connect on control box (1.005.719-01 POS 19) to reconnect.
	Transmitter fuse is broken	Replace the 1A fuse in the control box. (1.005.71901 -POS 20)
	The receiver's fuse is broken	Replace the 10A fuse in the white electrical box on the straw blower, behind protective cover. (1.003.85301 -POS 10)
	No power supply, not connected to driving machine	Check fuse, plugs/connection and power cables of driving machine.
The ring in the pressure indicator of the press filter turns red instead of green.	The (pot of the) press filter is full of dirt and/or the filter is clogged	Remove residue from pot and replace filter element

10 WARRANTY CONDITIONS

Unless otherwise confirmed, the warranty conditions as stated in the METAALUNIEVOORWAARDEN, formerly SMECOMAVOORWAARDEN, issued by the Koninklijke Metaalunie, shall apply.

The clauses below are taken from this METAALUNIEVOORWAARD as issued by the Koninklijke Metaalunie in 2019.

Article 14: Warranty and other claims

Contractor: (The dealer on behalf of) Flingk Machinebouw

Client: The end user/owner of the straw blower

- 14.1 Unless otherwise agreed in writing, the contractor guarantees the proper performance of the agreed performance for a period of six months after delivery or completion, as detailed in the following paragraphs.
- 14.2 If the parties have agreed different warranty terms, the provisions of this article shall apply unimpaired, unless in conflict with those different warranty terms.
- 14.3 If the agreed performance has not been duly performed, the contractor shall make a choice within a reasonable period of time as to whether it will still perform it duly or credit the customer for a proportionate part of the order price.
- 14.4 If the contractor chooses to perform the work properly, he shall determine the manner and time of performance. The customer must in all cases give the contractor the opportunity to do so. If the agreed performance consisted (in part) in the processing of materials provided by the Client, the Client should supply new materials at his own expense and risk.
- 14.5 Parts or materials to be repaired or replaced by the contractor must be sent to it by the customer.
- 14.6 For the client's account:
- a. any transport or shipping costs;
 - b. costs for disassembly and assembly;
 - c. travel, accommodation and travel time.
- 14.7 The Contractor shall not be obliged to perform the guarantee until the Client has fulfilled all its obligations.
- 14.8 a. Warranty is excluded for defects resulting from:
- Normal wear and tear;
 - injudicious use;
 - maintenance not carried out or carried out incorrectly;
 - installation, assembly, modification or repair by the client or by third parties;
 - defects in or unsuitability of items originating from, or prescribed by the client;
 - defects in or unsuitability of materials or tools used by the client.
- b. No warranty is given on:
- delivered items that were not new at the time of delivery;
 - inspecting and repairing items belonging to the client;
 - parts under factory warranty.

- 14.9 The provisions of paragraphs 3 to 8 of this article shall apply mutatis mutandis to any claims by the customer based on non-performance, non-conformity or any other basis whatsoever.

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