



Manual

Slootsmid SV coulter injector



Slootsmid Mesttechniek B.V.
KORENBREE 40A | 7271 LH | BORCULO | NL |

Foreword

Congratulations. You are the owner of a Sloodsmid Coulter Slurry Injector. Produced for the modern farmer. We think that with buying this machine you have made the right choice. When used appropriate the machine can be used for many years.

Before you use the machine, read this manual! We can not give any insurance on inappropriate use of the machine.

Sloodsmid always tries to improve her machines. Sloodsmid has the rights to change the machines, without further obligation to formerly produced machines.

All pictures, sizes and weights, which are given in this manual can be changed at any time, without any information. Pictures, sizes and weights are as accurate as possible. Through changing in production these values are non-mandatory.

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1. GUARANTEE

We guarantee a six months full guarantee on the machine. Prohibited that the machine is used appropriately and according this manual.

The guarantee includes only the defects who find there assignable cause in material- or production faults. The guarantee is limited to delivering material at no costs. This only on the judgment of Slootsmid.

The possibility to claim end at six months after delivery of the machine. Also injudicious use, wrong of no maintenance, wrong recovery and changes to the machine will expire the possibility to claim. You can claim by filling out the guarantee form.



Image 1: rating plate

When ordering spare parts please inform us the numbers on the rating plate.

2. EU DECLARATION OF CONFORMITY FOR MACHINERY

(Guide 2006/42/EG) appendix II B

Manufacturer : Slootsmid Mesttechniek B.V.
Adres : Korenbree 40-A, 7271 LH Borculo
The Netherlands

Herewith declares that,

The Slootsmid SV coulter slurry injector

Serial number : _____

Year of manufacture : _____

Delivery date : _____

Meet the requirements of the machinery guide (Guide 2006/42/EG, last changed); appendix VII part B

Accomplished in Borculo at, _____ *

Slootsmid B.V.

*Fill in by delivery

3. SAFETY INSTRUCTIONS

The on the machine attached stickers inform the user a safe use with the machines

1. Following these instructions is very important for you own safety! Stickers which are damaged need to be replaced!
2. Use this machine only when all protection is complete, intact, and in functional condition.
3. Make sure that nobody is on, under or at the machine when:
 - a. The machine will be turned on.
 - b. Using the machine.
 - c. Stands still but not is turned of.
4. The machine can only be operated by one person.
5. When the tractor is standing still. The machine has to stand at rest. This means spread out and lifted down! The spherical plug and the hydraulic block need to be closed.
6. When repairing the machine the tractor has to stop and the hydraulics need to be shut of.
7. Make sure that when opening the cuttingfilter no pressure from the manure is present. This can be achieved by spreading out the machine and lowering the complete machine.
8. Watch for you fingers when repairing the cuttingfilter.
9. Damaged hydraulic lines need to be repaired immediately.
10. The over-compression-valve should not be displaced.
11. Make sure that nobody is standing near to the machine or walking around the machine while working with the machine.
12. Do not stand on the machine while working with the machine!

3.1 Safety stickers

The on the machine attached stickers inform the user a safe use with the machines

Following these instructions is very important for you own safety! Stickers which are damaged need to be replaced!



4. CONNECTING DESCRIPTION

Connecting the machine behind a slurry tank:

1. Condition is that the slurry tank has a integral frame.
2. Connect the brackets, make sure that the back of the brackets are leveled (see image).
3. Connect the injector on the right height tot the brackets. The machine will be delivered with supports. The height on the supports is the correct connecting height for the injector.

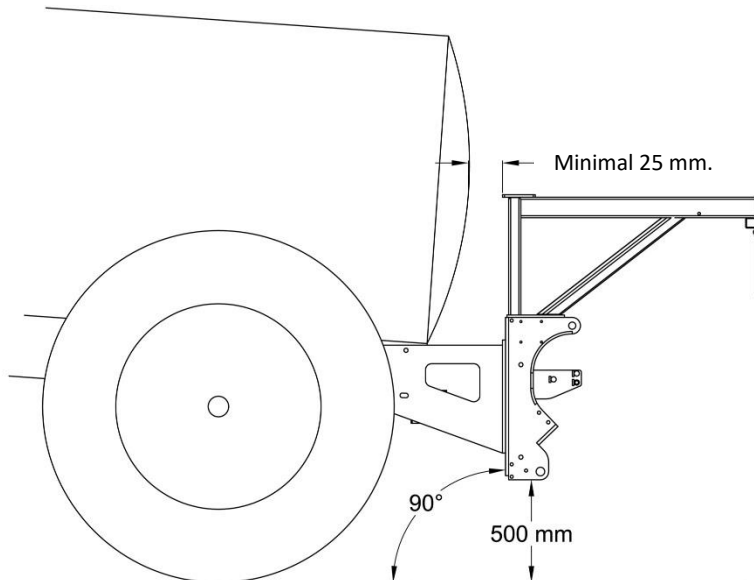
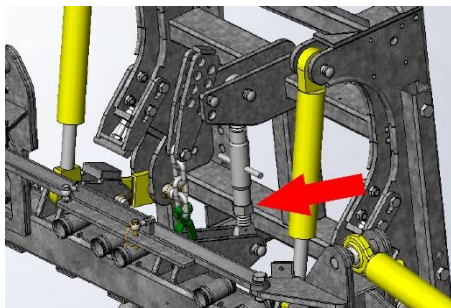


Image 3: Connecting

4. **After the first 8 working hours you should attract the lock nut on the top rod for the angling. This prevents the angle adjustment for expiring.**



4.1 Hydraulics

Connect the hydraulics. There are two possibilities:

1. Single bottom-pressure setting (4.1.1.)
2. Slootsmid sequence-block (4.1.2.)

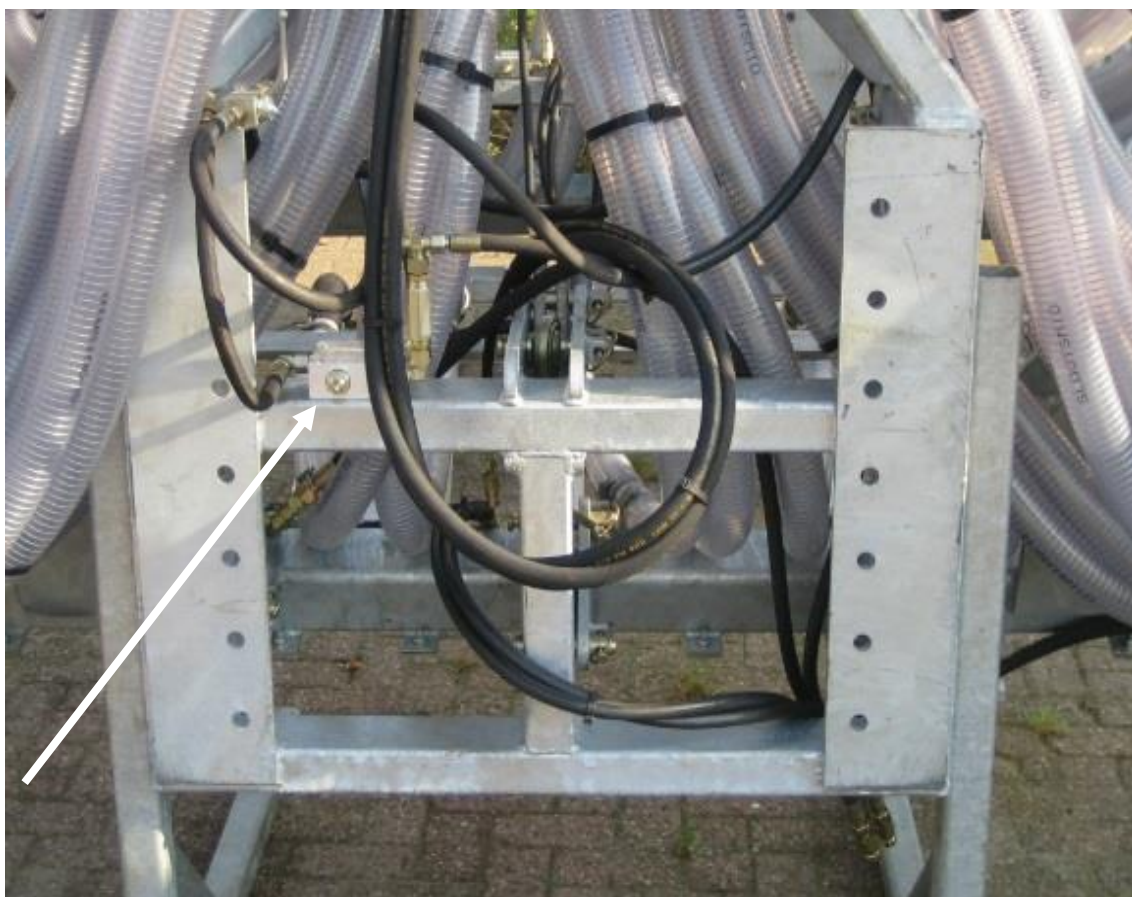


Image 4: bottom-pressure setting

4.1.1. Single bottom pressure setting

- 1x single-valve for manifold (max. 40l/min)
- 1x double-valve for spreading
- 1x double-valve for lifting and lowering. Image 4 informs where the bottom-pressure can be set, leftwards for less pressure, rightwards for more pressure (max. 60 bar).
- 1x single-valve shutter/ 3-way valve through slurry tank / tractor served.

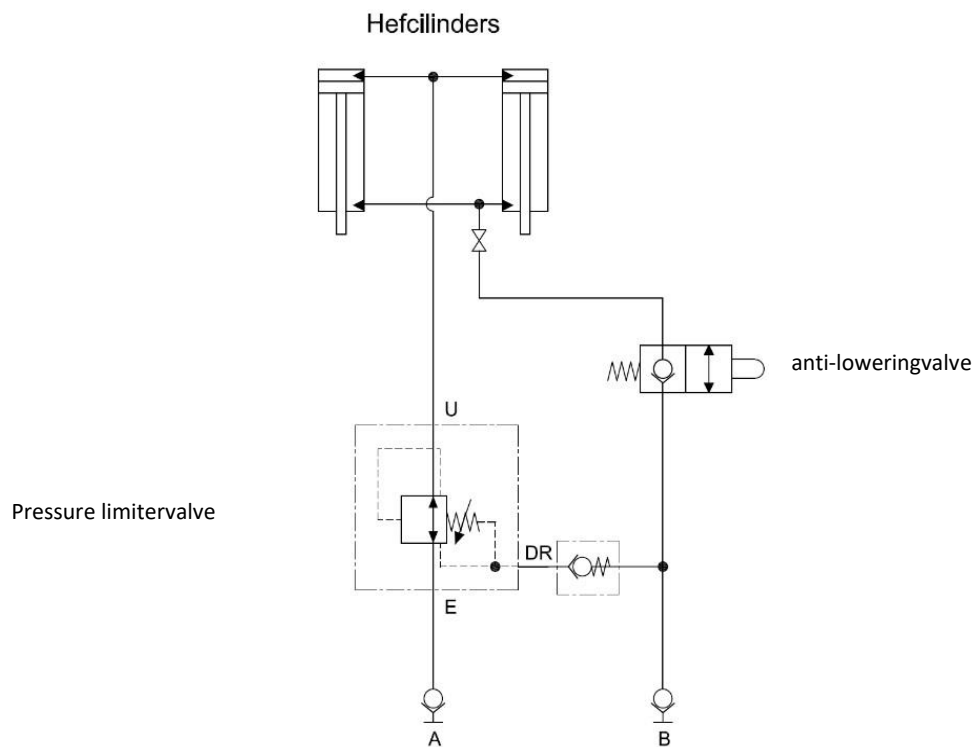


Image 5: simple pressure set

4.1.2. Slootsmid sequenceblock

- 1x doublevalve for sequence block. This arranges the turning of the machine, lifting and lowering the machine with the correct pressure and times the shutting and opening of the shutter/3-way valve (max. 4 ltr/min). See for connecting the 3-way valve of shutter the hydraulic scheme at page 12. Wenn a doublevalve is attached to the slurry tank the connection of the 3-way valve can be used.
- 1x singlevalve for spreading the machine.
- With the ajustable screw (image 6) the bottom pressure can be set. Leftwards less pressure. Rightwards more pressure (max. 60 bar).

On the next page you will find the hydraulic sequence block.

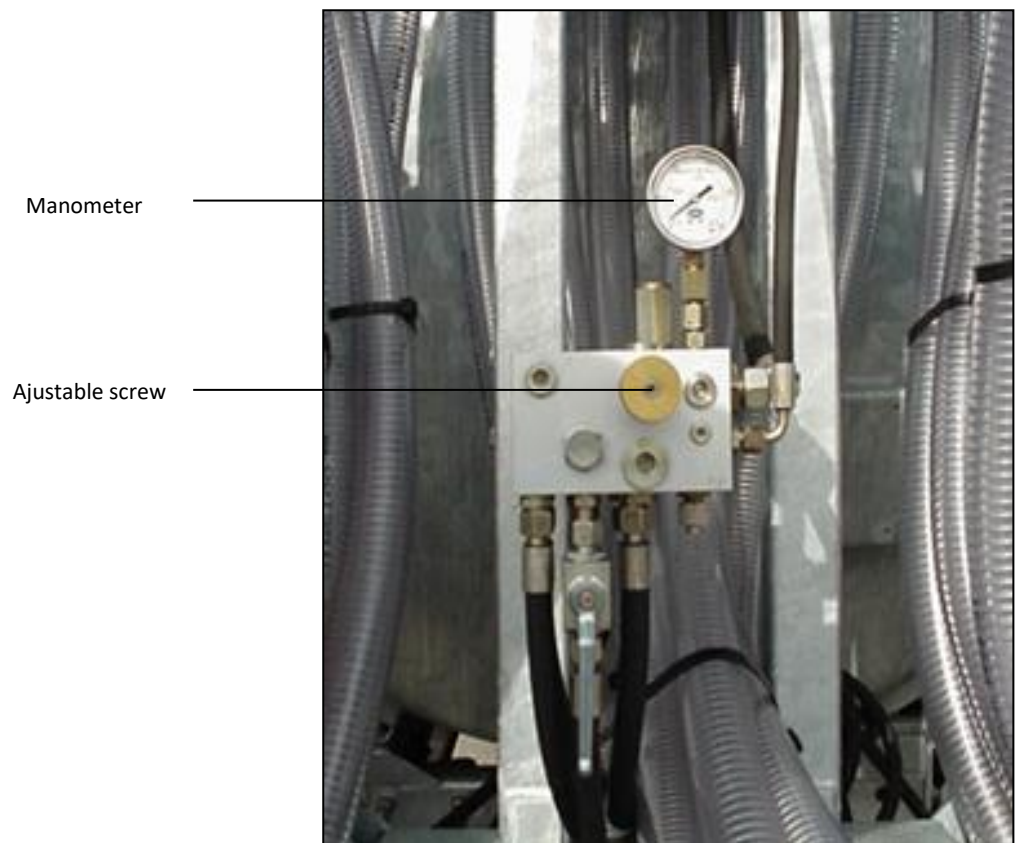


Image 6: Slootsmid sequence valve

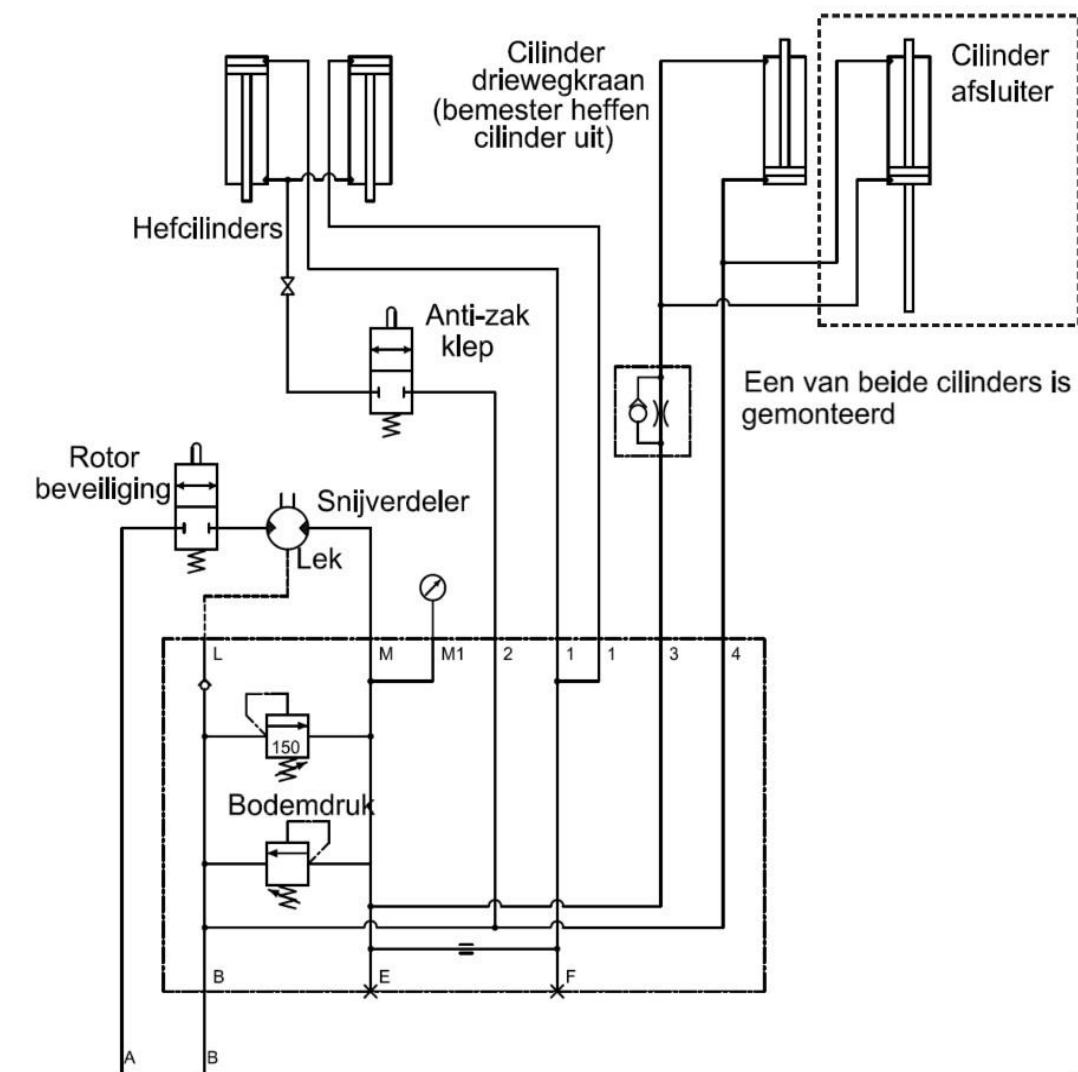


Image 7: Sloodsmid sequencevalve

4.2 SLURRY LANDING

- Fit a 4" of 5" tube between slurry tank (shutter or 3-way valve) and injector.
- With a vacuum slurry tank assemble the doseparts on the dispenser and on the fine pressure switch of the pump, to keep the dosing on a constant level.
- The machine is ready to use.



Image 8: doseparts



Image 9: finepressureswitch

5. TUNING THE MACHINE

1. Spread the machine (see page 20)
2. Stem the chain (through the line of holes on the chain) Herewith the bottom pressure of the coulter can be set. It is possible to set a position where the coulter don't touch the bottom.

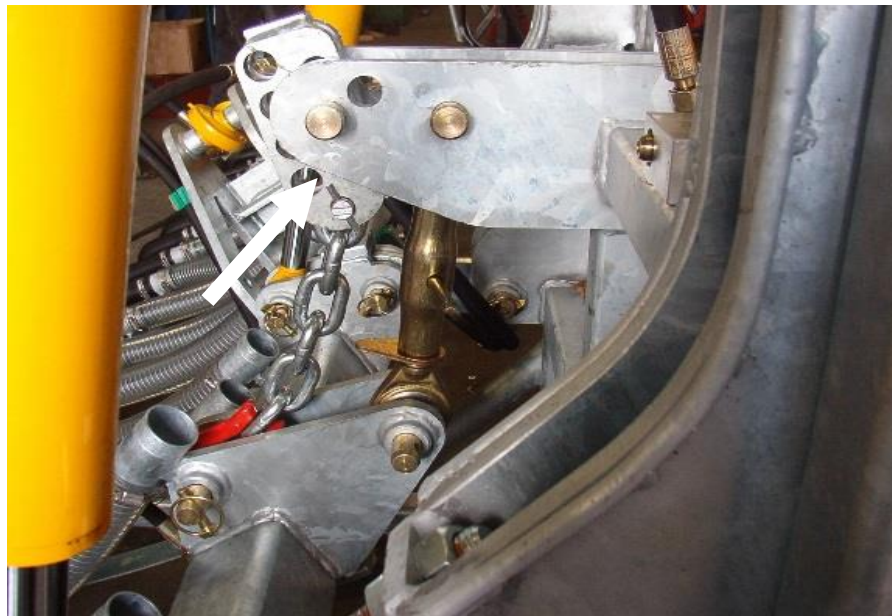


Image 10: set bottom pressure

3. Set the valve on the tractor in lowering.
4. Set the bottom pressure at (max. 60 bar) with the screw as show on image 4, or with the screw on the sequence valve. When the elements also at high pressure do not touch the ground the chains could be set to short.
5. Pull approximately 10 meters and check the surface. When necessary change pressure of length of the chain.

6. Image below informs the most ideal position of the elements.



Image11: ideal position of the elements.

7. Put with a pressurized slurry tank the gearbox in the correct gear (see table on slurry tank)
8. Set with a vacuum slurry tank the pressure in the tank on 0.3 – 0.5 bar. Place the correct doseparts. The amount of slurry which will be injected depends on the pressure in the tank, the doseparts, the thickness of the slurry and the driving speed.
9. Set during injecting the hydraulic valve in lowering (and make sure that the dispenser works when no sequence block is used). The machine then keeps a constant bottom pressure an the correct following.

6. WORKING WITH THE MACHINE

START:

1. Make sure that nobody is on, under or at the machine when you start the machine!
2. Spread the machine (security unlocks automatically).
3. Set when driving the machine on lowering and set the valvehandle on lowering..

STOP:

1. Set when driving the machine on lifting and put the handle from the valve in neutral.
2. Always lift the machine in the highest position.
3. Fold the machine
4. During transportation over the public road the sequence block has to be closed.

ATTENTION! NEVER DRIVE BACKWARD WHEN THE MACHINE IS IN USE!

7. MAINTENANCE

7.1 Frequently using the machine:

- Clean the cutting filter daily.
- Check the grease points every week (image 13, page 19).
- Check the lights before you drive on the public roads.
- After 8 working hours you should check the lock nut on the top rod for the angling. This prevents the angle adjustment for expiring.

7.2 Machine in storage:

- Clean the cutting filter, oil-coating, clean air valves.
- Check all grease points, eventually replace them. (image 13, page 19).
- Oil-coat the coulters.
- Oil-coat the visible parts of the piston-rod.
- Damaged hydraulic tubes need to be replaced.

7.3 Checking and advance the dispenser

See image 12:

1. Connect the rotor to the axle (slide-fitting).
2. Dismount the plate with the 3 bolts (1) in the middle of the rotor, disk (3) comes upwards 7 of 12 mm.
3. The maximum height of the disk is 7 mm above the boss of the rotor, when the hydromotor has an axle size of 32 mm. When the hydromotor has an axle size of 40 mm. the height is 12 mm.
Set this height by using spacer rings. (Do not remove plate springs)
4. Assemble the disk with the 3 bolts.
5. At last assemble the secured bolt on the stud
Set the rotor that it is still possible to rotate it by hand.

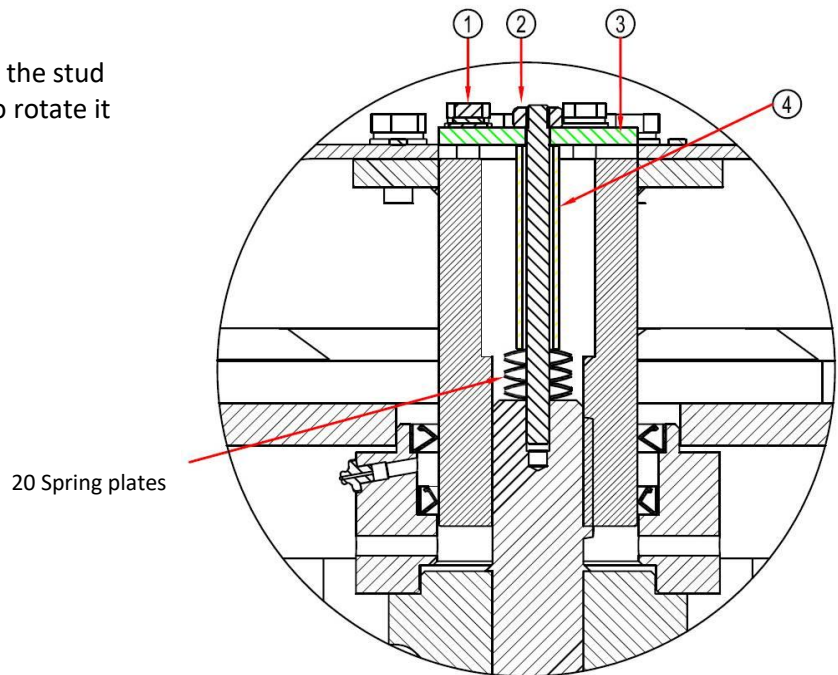


Image 12: tuning dispenser mill

7.4 Lubrication

Make sure that all points are lubricated every week.
Underneath you will find a lubrication scheme..

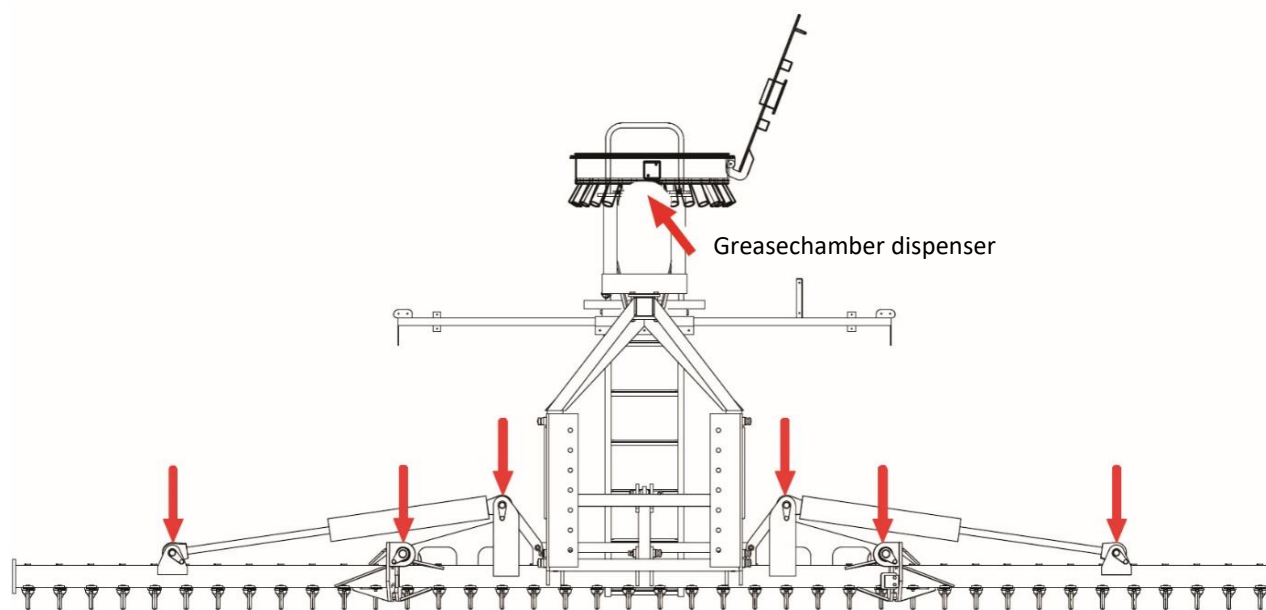


Image 13: Lubrication scheme

8. TROUBLESHOOTING

Machine will not lower:

- A) Spherical Crane under the hydraulic block is closed.
Solution: Open crane.
- B) Machine is not total spread the anti-lowering valve does not work.
Solution: set the anti-lowering valve.
When spread the pin of the anti-lowering valve has to be pressed down.
- C) Quick coupling,
Solution: locate and replace

Machine will not lift:

- A) Dispenser is stuck.
Solution: Clean dispenser (watch for your fingers!)
- B) Failure in the hydraulic block.
Solution: Contact supplier!
- D) Quick coupling,
Solution: locate and replace

Machine lowers during transportation:

- A) Anti-lowering valve leaks
Solution: Clean valve, contact supplier!
- B) Leaking trimmings lift cylinders.
Solution: Repair the cylinders.

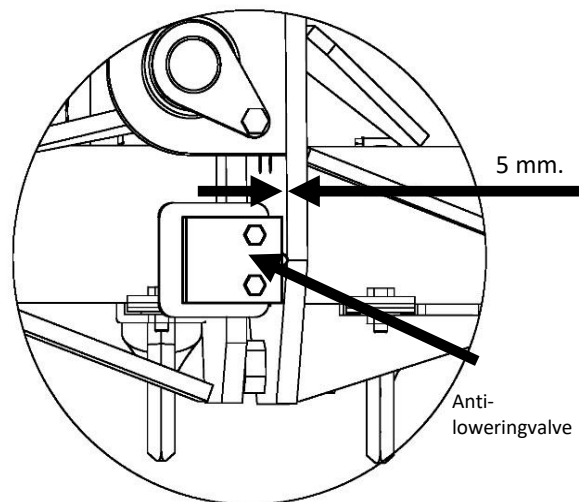


Image 14: set anti-lowering valve

Machine does not dispense:

- A)** Rotor in the dispenser is stuck.
Solution: clean dispenser (watch your fingers!)
- B)** The slurrytube is stuck.
Solution: clean the tubes.
- C)** Rotor rotates to heavy
Solution: reset rotor (See 7.3).
Set rotor:
1. Clean the rotor slide fit the axle on the hydro motor.
2. At last assemble the secured bolt on the stud
Set the rotor that it is still possible to rotate it
by hand. (When this set up does not work the springs have to be checked)
- D)** Airvalves on the dispenser are stuck.
Solution: clean the valves.



Image 15: dispenser mill

9. TECHNICAL INFORMATION

Type	SV 5.00-20	SV 6.20-20	SV 7.00-20	SV 8.20-20	SV 9.00-20	SV 10.00-20
Elements	25	31	35	41	45	50
Distance elements cm.	20	20	20	20	20	20
Swath width m.	5.00	6.20	7.00	8.20	9.00	10.00
Transport width in m.	2.95	2.95	2.95	2.95	2.95	2.95
Transport height in m.	2.70	2.70	2.90	3.50	3.90	4.40/4.00
Hydraulic folding	yes	yes	yes	yes	yes	yes
Weight in Kg.	985	1.050	1.140	1.255	1.315	1.420

Type	SV 12.00-20
Elements	60
Distance elements cm.	20
Swath width m.	12.00
Transport width in m.	2.85
Transport height in m.	4.05
Hydraulic folding	yes
Weight in Kg.	2.900

Working depth : from 0 to 1 cm.

Dose : from 5 to 30 m³ per ha.

Distance of elements at 16 cm optional on all types.

Mechanical valves optional on all types.

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