

Slootsmid



**Slootsmid Mercerator
SF 6, SF 6^E, SF 8, SF 8^E en SF 10**

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1. Introduction

Congratulations you are the owner of a Slootsmid macerator which is manufactured for the modern farmer and contractor. With buying the device you have made a very good choice. We are convinced that you will have many years of pleasant work with this device when normally treated and used.

Before you start working with the macerator we strongly advise to read this manual carefully, we cannot give any guarantee on inappropriate use or handling.

Slootsmid is always trying to improve their products and is therefore allowed to change the device at any moment without further liabilities to former sold devices.

All images, measurements and weights in this manual are as accurate as possible, but can be changed without preceding information

2. Guarantee

After delivery Slootsmid gives a six month guarantee, on condition that the device is used and serviced according to this manual.

The guarantee includes defects which find their assignable cause in material and/or manufacturing shortcomings. The guarantee limits only delivery of parts at no cost. This only on judgement of Slootsmid.

The demand for guarantee declines six months after delivery. Also inappropriate use, wrong or not incorrect maintenance and repairs also decline the guarantee.



We ask you to inform us of the numbers on the rating plate when you order spare parts for your device.

3. EU – Declaration of conformity for machinery

(Regulation 89/302/EEG)

Manufacturer: Slootsmid Mesttechniek B.V.
Adress: Korenbree 40a, NL-7271 LH Borculo (The Netherlands)

Herewith declares that,

The SLOOTSMID MACERATOR type SF 6, SF 6E, SF 8, SF 8E and SF 10

Serialnumber : _____

Year of construction : _____

Date of delivery : _____

Meets the requirements of the Machinery regulation 89/392/EEG as recently changed; EN292-1 and EN292-2.

Place and date : Borculo _____

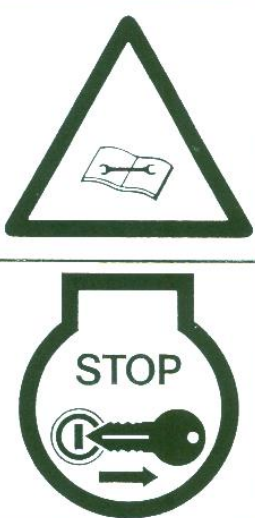
L.H. Eggink,
Director Slootsmid Mesttechniek B.V.

4. Safety measurements

1. The on or at the device attached stickers give information for a safe usage of the device. Damaged stickers need to be replaced.
2. Only work with the device when the machine is in functional state and complete. The protection secures the danger zones. Keep the protection in optimal state for your own safety.
3. Make sure that nobody is on, at, near or under the machine when:
 - a. The device is put in use
 - b. You are working with the device
 - c. The device is not stopped completely
4. The device can only be operated by one single person.
5. When repairing the device always turn off the engine. Take out the keys and release the pressure in the hydraulic lines and disconnect the electric lines.
6. When opening the cover make sure no pressure of manure is present and the pressure in the hydraulic lines is released and the electric lines are disconnected.
7. Watch out for your fingers when repairing the cutting rotor.
8. Damaged hydraulic lines must be replaced immediately
9. It is not allowed to modify the gauge pressure valves. Ask your dealer or Slootsmid!
10. Never stand on the device when working with the device.
11. After delivery check the hydraulic macerator
 - a. Is anything damaged
 - b. Is the macerator complete
 - c. Is the manual present and complete
 - d. Are the safety stickers present (also on the cover)

5. Safety stickers

The on the device attached stickers give information for a safe working with the device. Damaged stickers need to be replaced!

 LET OP ! Lees de gebruiksaanwijzing en de veiligheidsvoorschriften door, vóórdát de machine in gebruik wordt genomen en volg de aanwijzingen ervan op !	Attention! Read the manual and safety measurements before you start working with the machine!
	Attention! Watch your fingers when repairing of working with the cutting rotor.
	Attention! When repairing, assembly of working on the device turn of the engine of the tractor.

6. Technical parameters

Type	:	SF 6
Length	:	530 mm.
Width	:	330 mm.
Height	:	530 mm.
Connection	:	6"
Weight	:	80 kg
Capacity	:	3.5 m ³ /min
Hydro motor	:	EPMS 125
Necessary hydraulics	:	30 till 40 Litre, maximum at 150 bar

Type	:	SF 6 E
Length	:	530 mm.
Width	:	330 mm.
Height	:	530 mm.
Connection	:	6"
Weight	:	80 kg
Capacity	:	3.5 m ³ /min
Electro Motor	:	3 kW – 380v

Type	:	SF 8
Length	:	530 mm.
Width	:	415 mm.
Height	:	600 mm.
Connection	:	8"
Weight	:	125 kg
Capacity	:	5 m ³ /min
Hydro Motor	:	EPMS 125
Necessary hydraulics	:	30 till 40 Litre, maximum at 150 bar

Type	:	SF 8 E
Length	:	530 mm.
Width	:	415 mm.
Height	:	600 mm.
Connection	:	8"
Weight	:	125 kg
Capacity	:	5 m ³ /min
Electro Motor	:	4 kW – 380v

Type	:	SF 10
Length	:	530 mm.
Width	:	500 mm.
Height	:	600 mm.
Connection	:	10"
Weight	:	155 kg
Capacity	:	7 m ³ /min
Hydro Motor	:	EPMS 200
Necessary hydraulics	:	min. 40 litre, maximum at 150 bar

7. Usage

The Sloodsmid macerator is designed to prevent the coulter injectors for clogging and protects the displacing element pump.

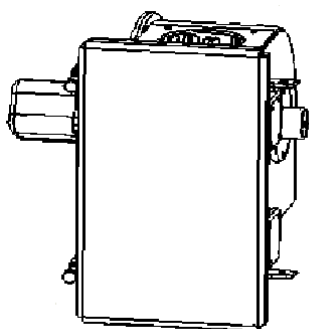
8. Handling

The Sloodsmid macerators normally are attached to a slurry tanker or pumping installation. When assembling or disassembling you have to pay attention to the weight of the macerators!

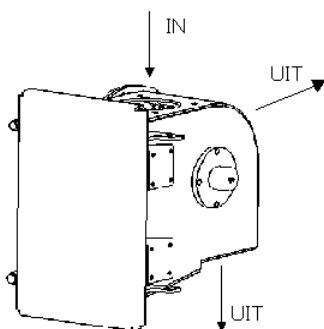
Type	SF 6	SF 8	SF 10
Massa (kg.)	80	125	155

9. Assembly

The Sloodsmid macerator is placed before the pump of vacuum tanker in the suction line. It is attached with flanges (pay attention to packing seal). The macerator can be placed in every position, only make sure that the hydro- or electro-motor is never placed on top! This will damaged the bearing. Also never assembly the macerator with the cover to the top, this can realize that heavy parts stay on the rotor. The best way to assembly the macerator is with the hydro motor to the side and the cover to the front (see image)

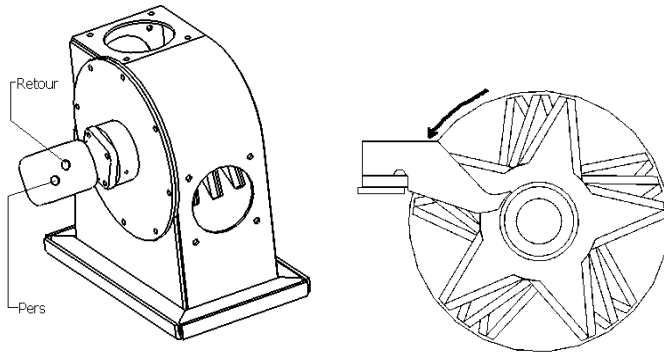


The right way to assembly the macerator is that the manure comes in the macerator at the side of the comb (see image below). In this way the manure will be sucked through the comb and knives. The rotor cuts the thicker parts of the manure.



Because of the rotor and flow of the manure there is hardly any pressure difference.

When attaching the hydro motor pay attention to the correct way it turns (see images below). The hydro motor works optimal when the oil flow is 40 litres per minute. Pay attention to the diameter of the hydraulic lines. We advise a diameter of $\frac{1}{2}$ ".



Frequently check the returning pressure. This may be 20 Bar max. When the pressure is higher a separate leakage line should be assembled (1/4 attachment). Pay attention that the size of the nipples make sure this is correct and use as little connections as possible.

To prevent turning back of the rotor assemble a non-return valve in the hydraulic line. We also advise to install a pressure gauge in the hydraulic line. When the macerator is filled up the pressure rises. Then it is necessary to clean out the cutting filter (see appendix 1 hydraulic scheme).

10. Starting up

Before the macerator is put in to use first check all the connection bolts and lines, these have to be tightened. Then put on the hydraulic charge. In the macerator a soft rubbing noise can be heard. When a loud noise occurs stop the macerator immediately (see tuning).

Always turn on the macerator before you turn on the pump!

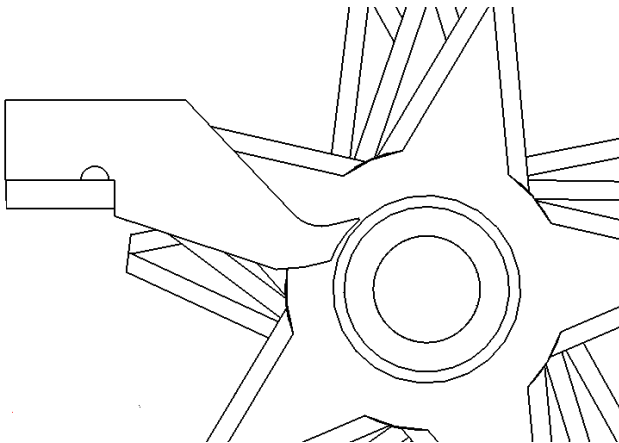
Check the sense of rotation, wrong rotation can damage the macerator.

11. Tuning

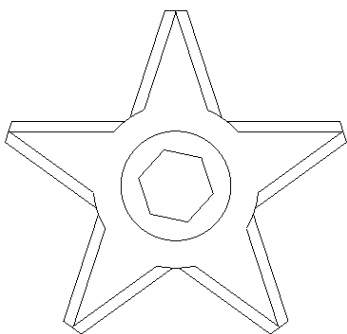
All Sloodsmid macerators are adjusted at delivery. When changes in the adjustment occur during assembly this can be readjusted. If you have any problems contact Sloodsmid.

The closing tension of the cover can be adjusted by turning in or out the hinges and clamp closing. When the macerator is in use it may not have false air this realizes a longer filling time. The cutting filter also can leak in that case.

The knives in the macerator should rotate on both sides of the comb 0,5 mm (see image below) in between. Frequently check the adjustment for correct cutting. The knives should be sharp for good cutting.



When sharpening the knives make sure the stay straight not round (see image below). Make sure the comb stays straight and the edges sharp.



12. Assembly and disassembly

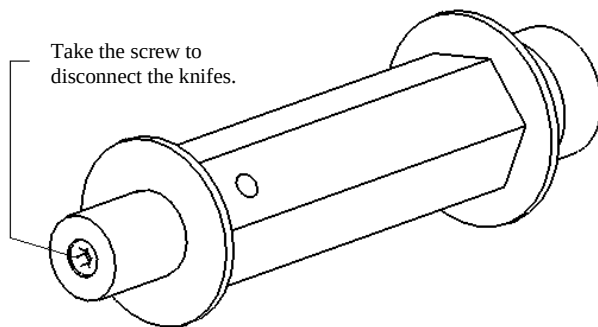
Before you start assembling or disassembling the macerator always stop the hydro- or electro-motor and the engine of the tractor. Also take out the key and make sure no pressure is present in the hydraulic lines and no pressure of the manure is present.

Then the cover can be opened. Check if the rotor stands still!

The comb can be disassembled by unscrewing two nuts on the inside.

The rotor can be disassembled at unscrewing the side plate. Then the rotor can be taken out with the hub and hydro motor.

The cutting knives from the rotor are universal and can be switched ones before they have to be sharpened. If you want to take out the knives you have to remove the axle stump by screwing out the socket head screw (see image below).



When assembling pay attention to the connection of the sense of rotation of the hydro motor.

13. Maintenance

Frequently using the device:

- Clean the cutting-filter every day
- Clean the bearing house and grease the hub
- Exchange the bearings of the hub every year

When the machine is in shelter:

- Clean the inside of the macerator. Remove dirt.
- Grease the rotor, comb and knives.
- Grease all the lubrication point.
- Exchange damaged hydraulic lines

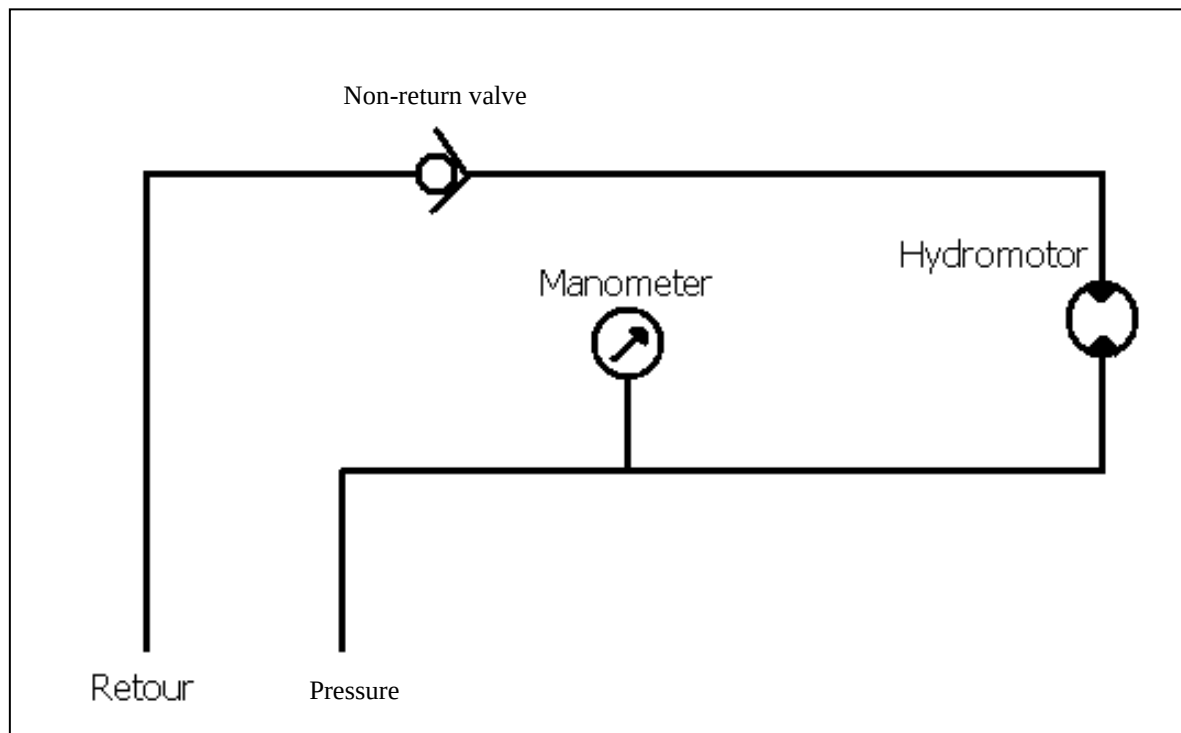
14. Interruptions

Problem	Solution
The rotor does not turn	Too much dirt is in the macerator, clean it out.
The rotor does not turn	Quick coupling is closed or the adjusting Ring of the coupling with the electro-motor is not tightened enough.
Excessive dirt in the macerator	Sharpen knives and check comb
Manure comes out the leakage canals of the hub	Exchanges sealing
Manure comes out the leakage canals of the hub	Exchange the sealing of the hydro motor

When repairing always use original Slootsmid parts, available through the Slootsmid dealers.

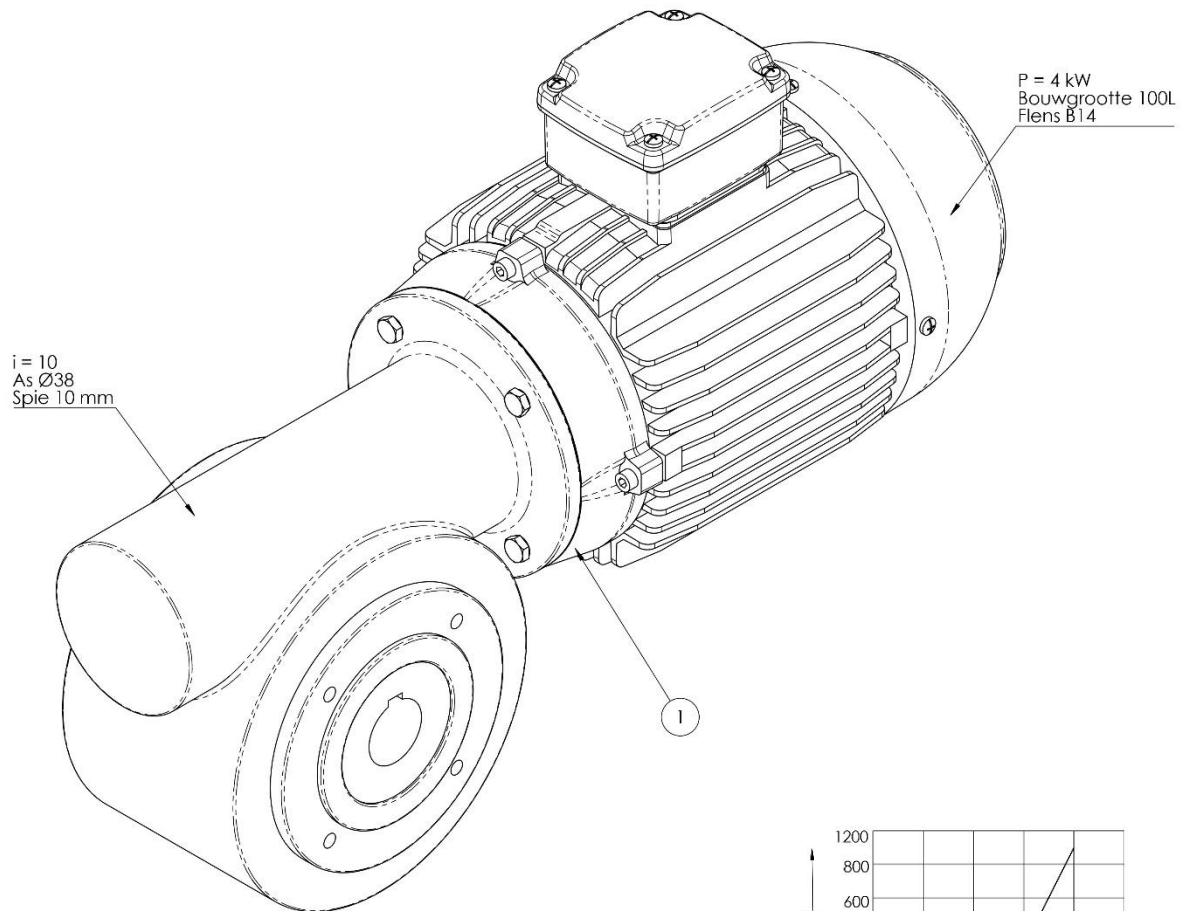
We ask you to inform us de numbers on the rating plate when you order spare parts for your device.

Attachment I: Hydraulic scheme



Hydraulisch schema snijfilter SF 6/ SF 8/ SF10

Attachment II: E-motor en coupling with electrical driven macerator



Aanpassen Moment Slipkoppeling:

Moer rechtsom draaien = Hoger moment
 Moer linksom draaien = Lager moment

Änderung drehmoment Rutschkupplung

Mutter rechts drehen = Hoher Drehmoment
 Mutter links drehen = Niedriger Drehmoment

Change of the torque limiter

Nut clockwise direction = Increase of torque
 Nut counter clockwise direction = Decrease of torque

