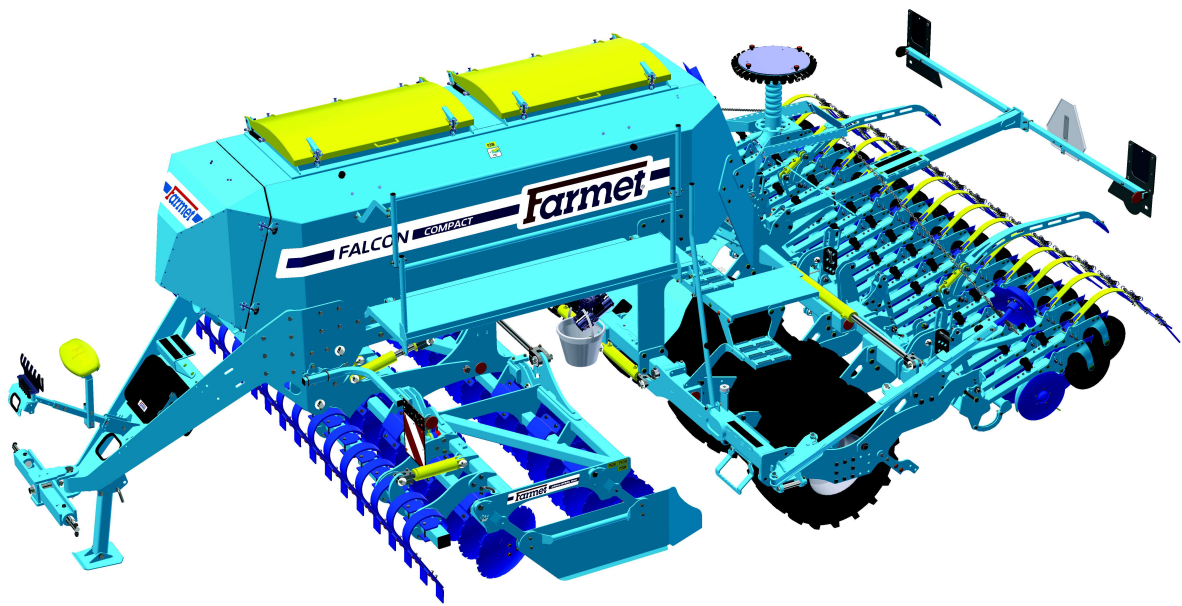


OPERATING MANUAL

FALCON COMPACT



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PREFACE

Thank you for purchasing a Farmet machine. Thank you also for your trust, which is inspiring and binding for us.

Farmet a.s. is a dynamically developing Czech company engaged in the development, production, sale and service of agricultural machinery for tillage, fertilizer application and sowing, as well as technologies for the processing of oilseeds, vegetable oils and feed production.

The Farmet brand is focused on products of high quality and high utility value with use in productive agricultural and processing operations. Farmet is a partner of modern agriculture and food industry in many markets around the world.

Our own products and technologies are created in close cooperation between Farmet specialists and end customers, research institutions and universities, which is why our products often have unique technical solutions according to the requirements of agricultural practice.

Significant investments in development and modern production operations are a guarantee of further development in the field of quality and new productive production technologies. Our goal is to further increase the added value of products and strengthen their competitiveness in all markets, increase user comfort, occupational safety and environmental protection.

Ing. Karel Žďárský
CEO and Chairman of the Board of Directors



AGRICULTURAL MACHINES



OIL & FEED TECH



IMPORTANT

READ CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

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1 MACHINE CONFIGURATION


| | |
|------------------------------|---|
| Serial number of the machine | 2025/0272 |
| VIN | |
| Machine code | T3/H4/NB/FD/125/DS/TL3/32SF/V1/LC/BM/MT/WL/SLS/ S1/S2/T8 |
| Additional equipment | 16Y/1V7/1V40/1V250/1V260 |
| HW ECU | |
| SW ECU | |

| Machine equipment | |
|-------------------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> | V1 small fan |
| <input type="checkbox"/> | V1F small fan + fertilization |
| <input type="checkbox"/> | V2F big fan + fertilization |
| <input type="checkbox"/> | Auger metering unit of fertilizing |
| <input checked="" type="checkbox"/> | Roller fertilizing dispenser |
| <input type="checkbox"/> | Type of seed tube distributions – EC |
| <input type="checkbox"/> | Type of seed tube distributions – HM |
| <input type="checkbox"/> | Terminal Basic |
| <input type="checkbox"/> | Terminal Smart 570 |
| <input checked="" type="checkbox"/> | Terminal Touch 800 |
| <input type="checkbox"/> | Terminal Touch 1200 |
| <input type="checkbox"/> | Licence Track Leader |
| <input type="checkbox"/> | Licence Section control |
| <input type="checkbox"/> | Licence Multi control |
| <input type="checkbox"/> | Licence Tramline management |
| <input type="checkbox"/> | Licence ISOBUS-TC |

The serial number of the machine is printed on the serial plate and on the machine frame. This machine serial number must always be stated when ordering service or spare parts. The type plate is located on the front of the hopper.

| | | | | | |
|---|--|-----|-----|---|-----------------|
| FARMET a.s. S2a e8*167/2013*00067*00 FAR???????????????? | | | | Jifinková 276 552 03 Česká Skalice MADE IN CZECH REPUBLIC | |
| FALCON FA 4 COMP | | | | ROK/ YEAR | MODEL ROK/ YEAR |
| | | | | 2024 | 2024 |
| | | | | CELK. HMOT/ TOTAL WEIGHT | 6060 kg |
| 6060 kg A-0: 3000 kg A-1: 5500 kg A-2: -- kg A-3: -- kg | | kg | T-1 | T-2 | T-3 |
| | | B-1 | --- | --- | --- |
| | | B-2 | --- | --- | --- |
| | | B-3 | --- | --- | --- |
| | | B-4 | --- | --- | --- |
| | | | | www.farmet.cz | |
| | | | | | |

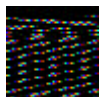
2 QUICK START

| Point | Act | Chapter |
|-------|--|---------|
| 0 | Safety notice | 4 |
| 1 | Engage the Falcon with towing equipment | 10.1 |
| 2 | Connect all hydraulic hoses, including the return drain | 10.2 |
| 3 | Connect the 7-pin cable of the machine's road lights | |
| 4 | Connect the machine electronics to the towing of vehicle | 10.4 |
| 5 | Raise the front support leg of the machine and secure | |
| 6 | Unlock the front section tilt pins | |
| 7 | Open the tilt valve. (blue marker) | 14.7 |
| 8 | Open the front preparation section lift valve.(yellow marker) | 28 |
| 9 | Switch on the seed drill terminal with main switch  | |
| 10 | Unfold the machine using the hydraulic circuit and the control terminal | 14.7 |
| 11 | Check that the seed drill is clean | 16 |
| 12 | Check the squeegee for leaks in the seed drill | 16 |
| 13 | Check the permeability of the fertilizer hoses | |
| 14 | Check the permeability of the seed hoses | |
| 15 | Sprinkle the seed | 14.10 |
| 16 | Pour the fertilizer | 14.10 |
| 17 | Adjust the machine plane and lock the tractor arms | |
| 18 | Adjust the sowing depth | 18.1 |
| 19 | Set the pressure on the pressure reducing valve | 18.2 |
| 20 | Depth adjustment of the front preparation section | 28 |
| 21 | Perform a seed test | 17.2 |
| 22 | Set the priority on the hydraulic circle of the fan | 10.3 |
| 23 | Set the required oil flow for the fertilizer hydraulic motor | 10.2 |
| 24 | Set the fan speed according to the seed and the rate | 11.2 |
| 25 | Set the required hydraulic functions – markers, tramline markers, etc | 14.9.2 |

3 TECHNICAL PARAMETERS

| Parameters | FALCON 3 COM | FALCON 4 COM | FALCON 4 COM FIX | FALCON 6 COM | FALCON 7,2 COM | |
|---|------------------|------------------|------------------|------------------|----------------|----|
| Working width (mm) | 3 000 | 4 000 | 4 000 | 6000 | 7 200 | |
| Transport width (mm) | 3 000 | 3 000 | 4 000 | 3 000 | 3 000 | |
| Transport height (mm) | 2 580 | 2 760 | 2 760 | 3 100 | 3 100 | |
| Total length of the machine (mm) | 7 000 | | | | | |
| Working depth (mm) | 0–100 | | | | | |
| Hopper capacity without fertilization (l) | 2 800 | 2 800 | 2 800 | 4 000 | 4 000 | |
| Hopper capacity with fertilization (l) (distribution 40:60) | 4 000 | 4 000 | 4 000 | 5 000 | 5 000 | |
| Filling height of the hopper without fertilization (mm) | 2 500 | 2 500 | 2 500 | 2 650 | 2 650 | |
| Filling height of the hopper with fertilization (mm) | 2 650 | 2 650 | 2 650 | 2 850 | 2 850 | |
| Filling hole size without fertilization (mm) | 1 140 x 620 | | | | | |
| Filling hole size with fertilization (mm) | 1 430 x 620 | | | | | |
| Number of seeding coulters (spacing 125 / 143 / 150 / 167 mm) | 24 / X / 20 / 18 | 32 / X / 26 / 24 | 32 / 28 / X / 24 | 48 / X / 40 / 36 | X / X / 48 / X | |
| Numbers of fertilization coulters (spacing 250 / 300 / 334 mm) | 12 / 10 / 9 | 16 / 13 / 12 | 16 / 13 / 12 | 24 / 20 / 18 | X / 24 / X | |
| Seed coulters pressure (kg) | 50–120 | | | | | |
| Fertilization coulters pressure (kg) | up to 200 | | | | | |
| Disc diameter of the double disc coulters / pressure wheel (mm) | 355 / 330 | | | | | |
| Number of preparation section disks \varnothing 490 | Front row | 12 | 16 | 16 | 25 | 30 |
| | Back row | 11 | 15 | 15 | 24 | 29 |
| Number of chisels 4 - row section depth 80 mm (spacing 100 mm) | 30 | 40 | 40 | 60 | 72 | |
| Number of chisels 3 - row section depth 200 mm (spacing 250 / 300 / 334 mm) | 12 / 10 / 9 | 16 / 13 / 12 | 16 / 13 / 12 | 24 / 20 / 18 | X / 24 / X | |
| Work performance (ha/h) | 3 - 4,5 | 4 - 6 | 4 - 6 | 6 - 9 | 7,2 - 11,3 | |
| Towing device (kW/HP) * | 88 / 120 | 103 / 140 | 103 / 140 | 130 / 195 | 155 / 215 | |
| Working speed (km/h) | 10 - 20 | | | | | |

| Parameters | FALCON 3 COM | FALCON 4 COM | FALCON 4 COM FIX | FALCON 6 COM | FALCON 7,2 COM |
|---|------------------------|--------------|------------------|--------------|----------------|
| Maximum transport speed (km/h) | 25 | | | | |
| Maximum slope accessibility (°) | 6 | | | | |
| Tire size | 420/55 R17 7,5 – 18 | | | | |
| Brake type / distribution*** | air / double hose | | | | |
| Required pressure for brake control (kPa) *** | 8,5 | | | | |
| Number of hydraulic circuits / pressure (bar) **** | 1 – 5 / 210 | | | | |
| Type of quick couplings | ISO 12,5 | | | | |
| Pressureless return flow (max. 5 bar) | ISO 20 | | | | |
| Hydraulic fan oil flow (l/min) | 30 - 40 | | | | |
| Oil flow for machine control (l/min) | 30 | | | | |
| Electrical system requirement | 12 V DC / 25 A | | | | |
| Tractor hitch requirement | TBZ cat. 2 and 3 | | | | |
| Weight of machine without fertilization (kg) ** | 4 100 | 5 600 | 4 600 | 7 500 | 8 500 |
| Weight of machine with fertilization (kg) ** | 4 300 | 5 800 | 5 300 | 7 800 | 8 900 |
| * The actual tensile force can change significantly. Depending on the selected machine variant, depth of cultivation, soil conditions, slope of the land, wear of working bodies and their adjustment ** The weight of the machine varies depending on the equipment *** Alternative hydraulic brake/ operating pressure 130±5 bar. **** According to the equipment of the machine | | | | | |



Transport/Brake system: Observe the national regulations applicable to the transport of machines on public roads. Check the legal regulations in force in the country and the regulations on the maximum permissible gross weights and axle loads, as well as on the necessary use of the brake system. If you have further questions, please contact our sales representative.

4 GENERAL INSTRUCTIONS FOR USE

1. The machine is manufactured in accordance with the latest state of technology and approved safety regulations. Even that, there is a risk of injury to the user or third parties or damage to the machine or other property damage.

2. Use the machine only in harmless condition, in accordance with its intended use, with knowledge, with knowledge of possible dangers and in compliance with the safety instructions in these operating instructions. The manufacturer is not responsible for damage caused by using the machine in violation of the machine's limit parameters and the instructions for using the machine. The risk is born by user.

Immediately remove defects, that can negatively effect safety risk!



WARNING – This warning sign must be in the immediate danger of a dangerous situation, ending with serious injury or death.



ATTENTION – This warning sign alerts you to a situation that could result in minor or minor injury. It also alerts you to dangerous actions associated with activities that could damage the machine.



NOTICE– This warning sign indicates a technical recommendation.



RECOMMENDATION



PRESS

3. The machine may be operated by a person authorized by the operator under the following conditions:

- Must have a valid driving license of the relevant category
- They must be demonstrably acquainted with the safety regulations for working with the machine
- He must be familiar with the machine instructions and the machine operator.
- They must know the meaning of the safety signs placed on the machine. Respecting them is important for safe and reliable operation of the machine.

4. Maintenance and service repairs on the machine may only be performed by a person:

- Authorized by the operator.
- Demonstrably acquainted with the safety regulations for working with the machine.
- When repairing a machine attached to tractor has to have the right category of driver license.

5. The operator of the machine must be sure of other persons safety when working with the machine or transporting the machine.

6. When transporting the machine or working on the field the machine operator have to control the machine from inside the cabin.

7. The machine operator can only enter the machine structure only at standstill position and when the machine is blocked from movement for the following reasons:

- Adjustments of working parts of the machine,
- Repair and maintenance of the machine,
- Unlock or secure the axle ball valves,
- Securing the axle ball valves before lowering the side frames,
- Adjustment working parts of the machine after folding side frames.

8. When climbing on the machine don't step on tires of the pneumatic roller or other spinning parts. They can spin and you can fall and have serious injuries.

9. However, the changes are, or adjustments on the machine can be done only with written agreement of the manufacturer. The manufacturer is not responsible for any damage resulting from non-compliance with this instruction. The machine must be maintained with the prescribed accessories, equipment and facilities, including safety markings. All warning and safety signs must be legible at all times and in place. In case of damage or loss the marks must be immediately renewed.

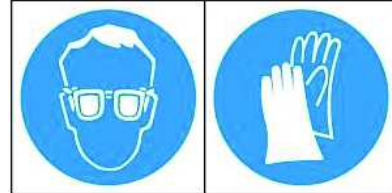
10. When working with machine the operator must have the Manual of using with requirements of safety work available.

11. The operator cannot use alcohol when working with the machine, or pills, or narcotics and hallucinating substances, which they increase lower attention and coordinated abilities. If the operator must consume a pill prescribed by a doctor or consuming free pills for sale must be informed by a doctor that in these circumstances is capable to work responsibly and safely operate the machine.

4.1 Protective equipment

For operation and maintenance:


- Tight-fitting clothes.
- Safety gloves and safety glasses for dust protection and sharp parts of the machine.



5 MACHINE TRANSPORT USING TRANSPORT MEANS

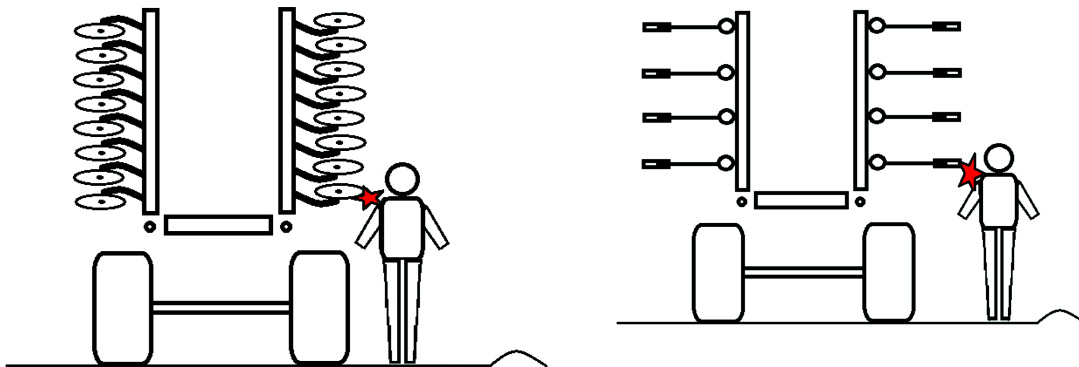
1. The means of transport designed to transport of the machine must have a load of capacity at least equal to the weight of the transported machine. The total weight of the machine is listed on the nameplate.
2. The dimensions of the transported machine including the means of transport must meet with the valid regulations for operation on roads (decrees, laws).
3. The transported machine must always be attached to the vehicle in such a way that it cannot be released spontaneously.
4. The carrier is responsible for damage causes of an incorrectly or insufficiently attached machine to the vehicle.

6 MACHINE HANDLING USING LIFTING EQUIPMENT

1. Lifting equipment and binding instruments using for manipulation with the machine must have its own load capacity minimum equal with weight of the machine being handled.
2. Attachment of the machine for manipulation may only be carried out in places designed for this purpose and marked with self-adhesive labels showing the „chain“: 
3. After attachment (suspension) in places designated for this purpose, it is forbidden to move in the area of possible reach of the manipulated machine.

7 MACHINE TRANSPORT ON ROADS

- The machine contains sharp structural projections.
- **It is prohibited to operate and transport the machine on roads when visibility is reduced!!** - Persons or objects, or other road traffic participants could get caught
- **The machine operator must be extra cautious when driving on roads and consider the width of the machine and safe distance from persons, vehicles and objects, or other road traffic participants!!**



- The machine attached to the rear arms of tractor (TPH 3).
- The side frames must be folded down to a vertical position and secured.
- The machine must be equipped by removable rails with markable contours, functional lightnings and rear marking plate for slow vehicle (according to EHK NO.69).
- The lightning must be on public roads ready to operate.
- A tractor must be equipped by a special lightning system of orange colour, which must operate on public roads and be put into operation.
- The operator with respect on the measurements of the machine have to be careful and considered on the others drivers on the public roads.
- The operator must be sure to secure rear arms TPH of the tractor and put them in secure position when transporting the machine on public roads. At the same time the arms of the rear TPH tractor must be secured against lateral swing.



- **It is strictly forbidden to transport people or cargo on the machine or to attach other machine, trailer or attachments to the machine.**

- MMaximum transport speed limit on public roads is **25 km/hour**.
- **Prohibition of operation in reduced visibility!**



- **The machine can be operated on roads only if it is equipped with air brakes (the customer will receive a technical certificate). Otherwise, the machine must not be operated on public roads!**

8 WORK SAFETY LABELS

Safety warning labels are used to protect operator.

In general:


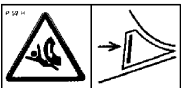


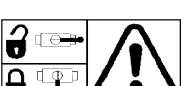
1. Strictly observe the safety warning labels.
2. All safety instructions also apply to other users.
3. If the **Safety label** on the machine is damaged or destroyed, the **OPERATOR MUST REPLACE THIS LABEL WITH A NEW!**



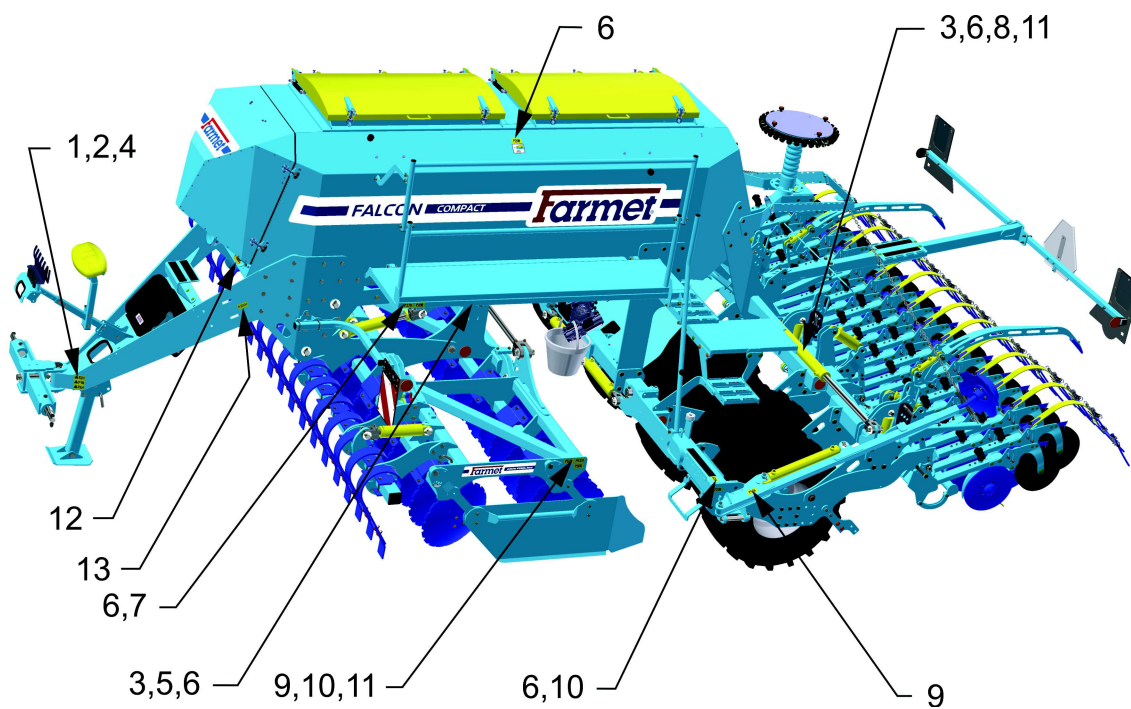
The position, appearance and the exact meaning of the occupational safety labels on the machine are determined in the following tables.

Tab.1 : Self-adhesive safety warning labels are located on the machine

| Positions on the machine | Safety label | Meaning of labels | Label stickers |
|--------------------------|--------------|---|----------------|
| 1 | | Before the manipulation with the machine ready the instructions for using. When operating, follow the instructions and safety regulations for operating the machine. | P 1 H |
| 2 | | When connecting or disconnecting do not enter between the tractor and the machine nor enter this area unless the tractor and machine are stationary and the engine is switched off. | P 2 H |
| 3 | | Stay out from the raised machine reach. | P 4 H |
| 4 | | Stay out of the reach of the tractor – agricultural implement when the tractor engine is running. | P 6 H |
| 5 | | Before beginning of the transporting secure the axle against unexpected drop. | P 13 H |
| 6 | | Stay out of reach when unfolding the service platform. | P 20 H |
| 7 | | Driving and transporting the machine structure is strictly forbidden. | P 37 H |
| 8 | | Keep safe distance from electrical equipment when working or transporting the machine. | P 39 H |

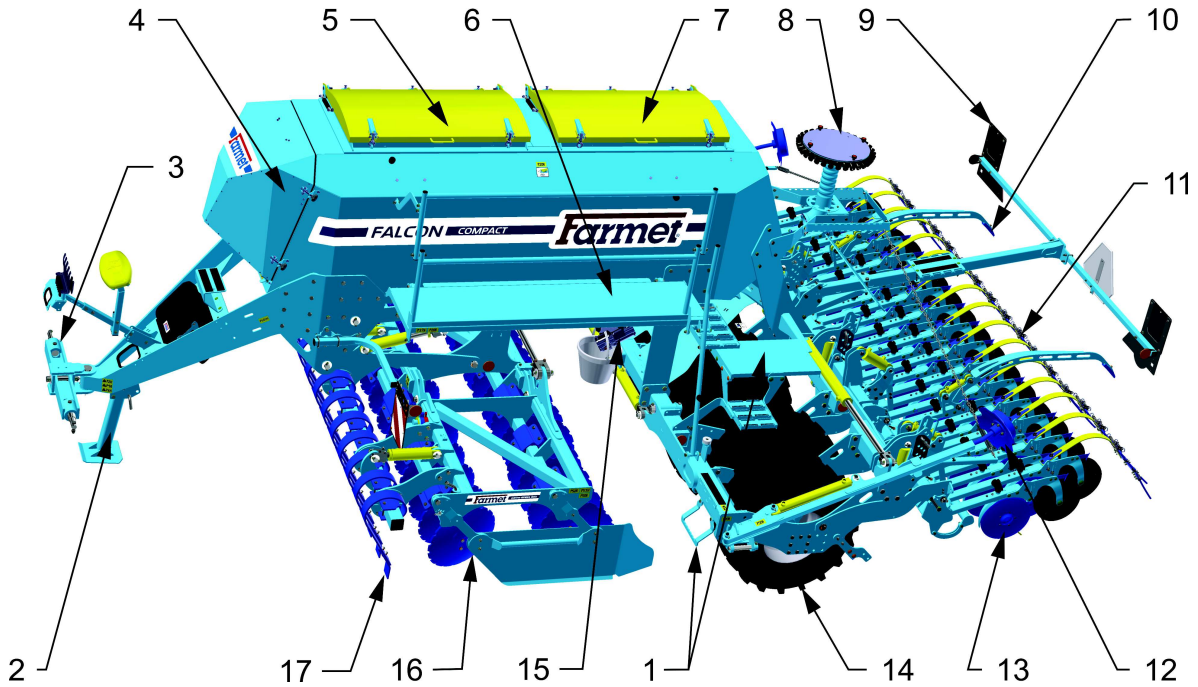
| | | | |
|----|---|---|---------|
| 9 |  | When folding and unfolding the side frames and the service platform, stay out of their reach. | P 50 H |
| 10 |  | Secure the machine against unexpected movement. | P 52 H |
| 11 |  | Do not be close to the rotating parts, unless these are not in calm position that means that they are not rotating. | P 53 H |
| 12 |  | It is forbidden to fold and unfold the side frames of the machine on a slope or on sloping surface. | P 100 H |
| 13 |  | Shown lever positions and functions of the hydraulic ball valve located on the piston rod | P 101 H |

- Position of the safety labels on the machine



9 DESCRIPTION

- FALCON COMPACT is structurally designed as a modular seed machine, with a rich amount of equipment.



| | | | |
|---|----------------------------------|----|--------------------------------------|
| 1 | Access stairs | 10 | Tramline markers |
| 2 | Folding supporting leg | 11 | Harrow pens behind the seed coulters |
| 3 | Drawbar | 12 | Marker |
| 4 | Fan | 13 | Seeders with pressure wheel |
| 5 | Fertilization hopper | 14 | Pneumatic flotation rammer |
| 6 | Service platform | 15 | Dispenser with mixer |
| 7 | Seed hopper | 16 | Exchange preparation section |
| 8 | Distributor head (for dispenser) | 17 | Flexiboard |
| 9 | Targets with road lighting | | |

10 COMMISSIONING

- Before taking over the machine, check and control that it has not been damaged during transport and that all the parts contained in the delivery note have been delivered.
- Before putting the machine into operation read these operating instructions carefully. Before using the machine for the first time be familiar with yourself with controls and overall instructions.
- Aggregation of the machine with the tractor is to be performed on a flat and hardened surface.
- When working on slopes, observe the lowest slope grade of the set **TRACTOR- MACHINE**.
- The operator is obliged to retract the working bodies of the machine from the ground when turning at the headland.
- The operator is obliged to observe the prescribed working depths and speeds stated in the manual in chapter **18, 20.3, 28** when working with the machine.
- The operator is obliged to lower the machine to the ground and secure the set against movement before leaving the tractor cabin.
- The machine showing signs of damage must not be put into operation.
- The operator is responsible for safety and for all damages caused by operation of the tractor and the connected machine.
- The machine may only be connected to a tractor whose curb weight is equal to or higher than the total weight of the connected machine.

10.1 Agregation to a tractor

| | | |
|---|--|---|
| Tractor engine power requirement for the machine FALCON 3 COM | | 88 kW* |
| Tractor engine power requirement for the machine FALCON 4 COM | | 103 kW* |
| Tractor engine power requirement for the machine FALCON 4 COM FIX | | 103 kW* |
| Tractor engine power requirement for the machine FALCON 6 COM | | 130 kW* |
| Tractor engine power requirement for the machine FALCON 7,2 COM | | 155 kW* |
| Requirement for TPH tractor | Spacing of lower suspension joints (measured on joint axels) | 1010±1,5 mm, (can also be set 910±1,5 mm) |
| | ∅ holes for lower suspension joints for machine suspension pins | ∅ 37,5, mm |
| Tractor hydraulic system requirement | Electrical distributor circuit | Circuit pressure min.190 bar – max.230 bar 60 l/min., 2 pcs of quick coupling sockets ISO 12,5 |
| | Hydraulic drive circuit | Pressure in the filling branch min.130 bar–max.230 bar, 1 pc of quick coupler socket ISO 12,5 |
| | | Pressure in the non-pressure return max.5 bar, 1pc of quick coupler socket ISO 20 |
| | Seed pressure | Circuit pressure min.190 bar – max.230 |
| Lifting and lowering circuit of the preparation section | Circuit pressure min.190 bar – max.230 40 l/min., 2pcs of quick coupling sockets ISO 12,5 | |
| Tractor air system requirement (if the machine is equipped with brakes) | Machine axle braking circuit | Circuit pressure min.6 bar – max. 15 bar |
| Tractor electrical system requirement | Connection of the electronic system of the machine | 12 V / 25 A |
| | | + red – black |



No persons may be present in the are between tractor and the machine during connecting.

10.2 Machine hydraulics connection

- Only connect the hydraulic hoses of the machine when the hydraulic circuits of the machine and the tractor (unit) are depressurized.
- The hydraulic system is under high pressure.
- Regularly check all lines, hoses and fittings for leaks and obvious damage. Eliminate any defects immediately.
- When searching for and removing leaks, use only suitable aids, protective goggles and gloves are the basis.
- Use the plugs (on the machine) and sockets (on the tractor) of quick couplings of the same type to connect the machine hydraulic system to the tractor. Connect the quick couplings of the machine to the hydraulic circuits of the tractor according to the table below.

| No. of circuit of tractor | Function | Coupler | Circuit color | Operation | Setting of oil flow l/min. | Continual flow |
|---------------------------|--|----------|---------------|-------------------|----------------------------|---------------------|
| | Non-pressure return from hydromotors and lifting | ISO 20 | | Free flow to tank | | |
| 1 | Electrohydraulic control block | ISO 12,5 | | Lifting | MAX | |
| | | ISO 12,5 | | Lowering | MAX | |
| 2 | Preparation section | ISO 12,5 | | Lifting | 20 – 40 | |
| | | ISO 12,5 | | Lowering | 20 – 40 | |
| 3 | Flexi board (optional equipment) | ISO 12,5 | | Lifting | 15 – 20 | |
| | | ISO 12,5 | | Lowering | 15 – 20 | |
| 4 | Fan | ISO 12,5 | | Pressure | 20 – 40 | PRIORITY |
| 5 | Fertilizing (optional equipment) | ISO 12,5 | | Pressure | 15 – 20 | |



To prevent involuntary or any stranger mistaken hydraulics movement, the control cabinets on the tractor must be secured or locked when not in use or in the transport position.

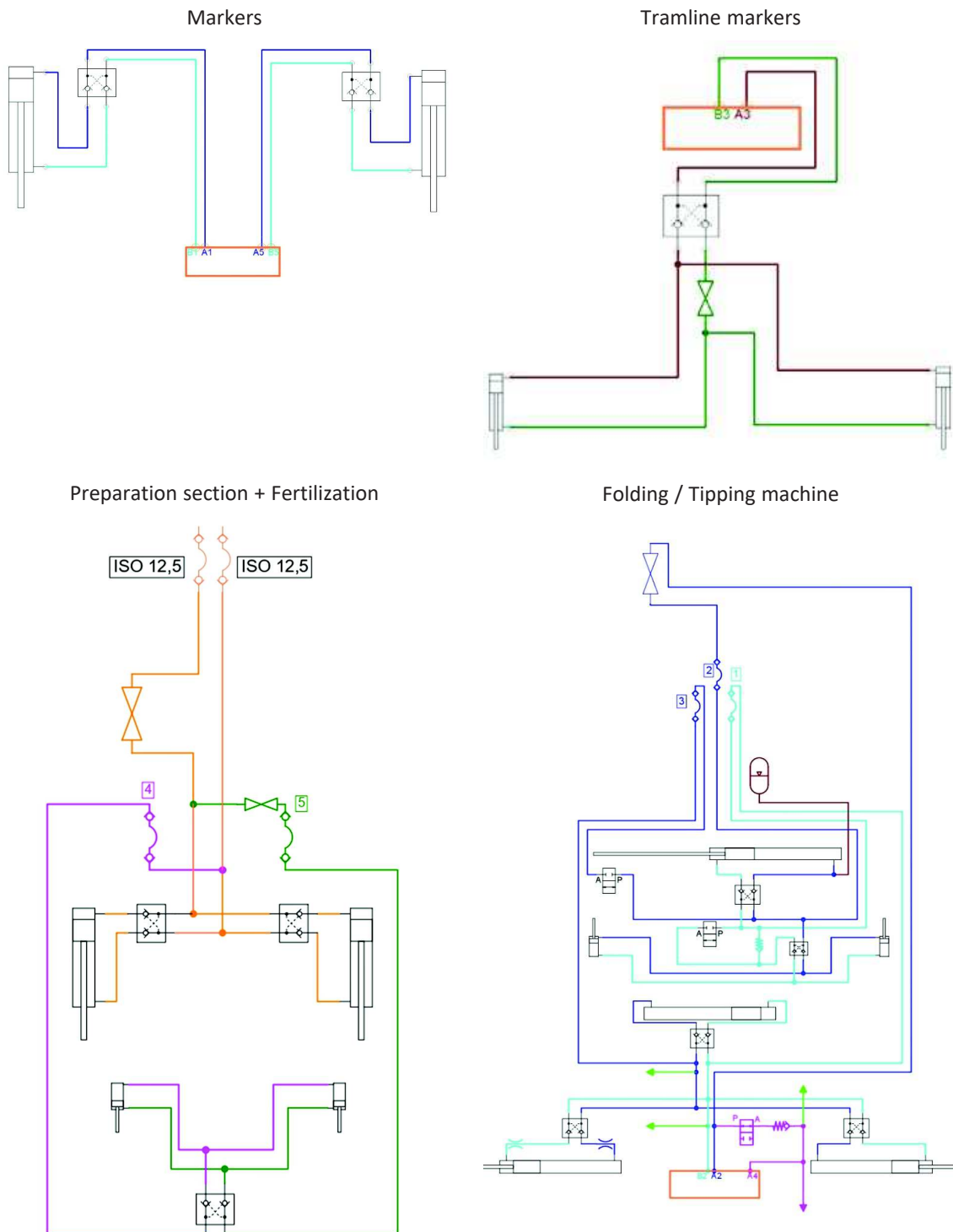


It is forbidden to disassemble parts of the machine hydraulic system that are under pressure. Hydraulic oil that penetrates the skin under high pressure causes of injury, seek medical advice immediately.



It is necessary to set 100% hydraulic oil flow for the hydraulic circuit (blue circuit).

10.3 Hydraulic diagram of the machine



10.4 Connection of the electronic part of the machine

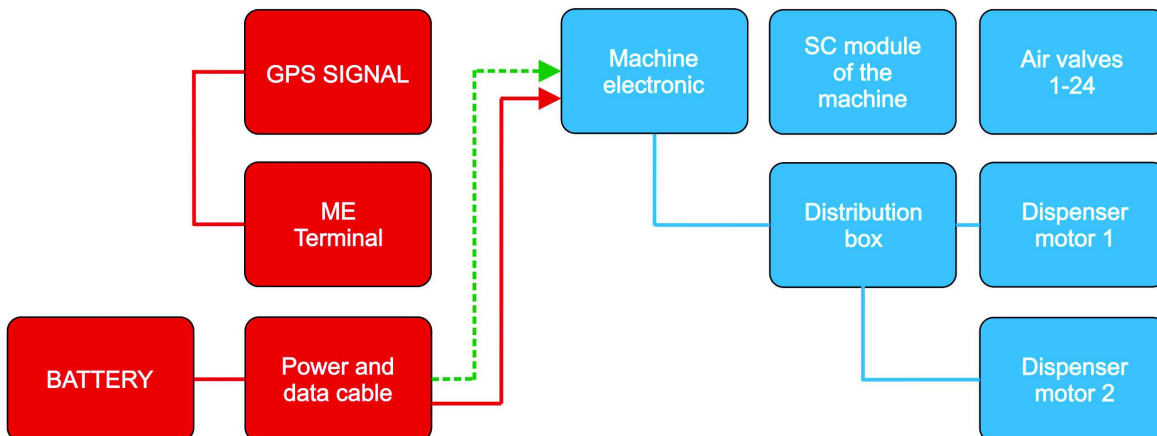
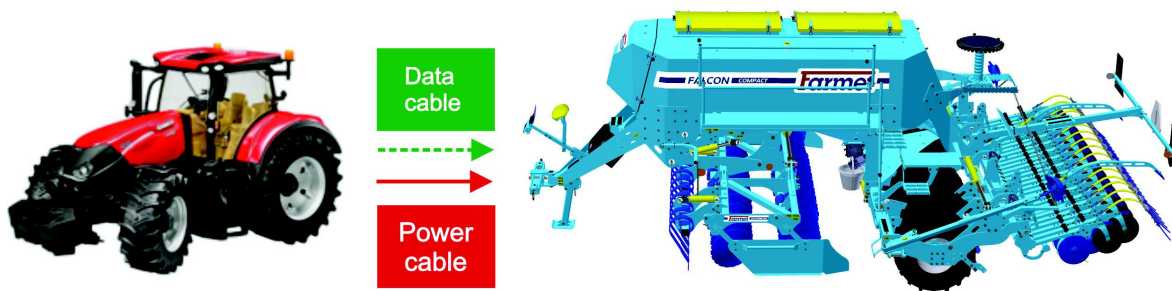
1. Connection to the tractor battery + Müller terminal (10.4.1)
2. Machine connection via ISOBUS tractor socket + Müller terminal (10.4.2)
3. Machine connection via ISOBUS tractor socket + Tractor terminal (10.4.3)

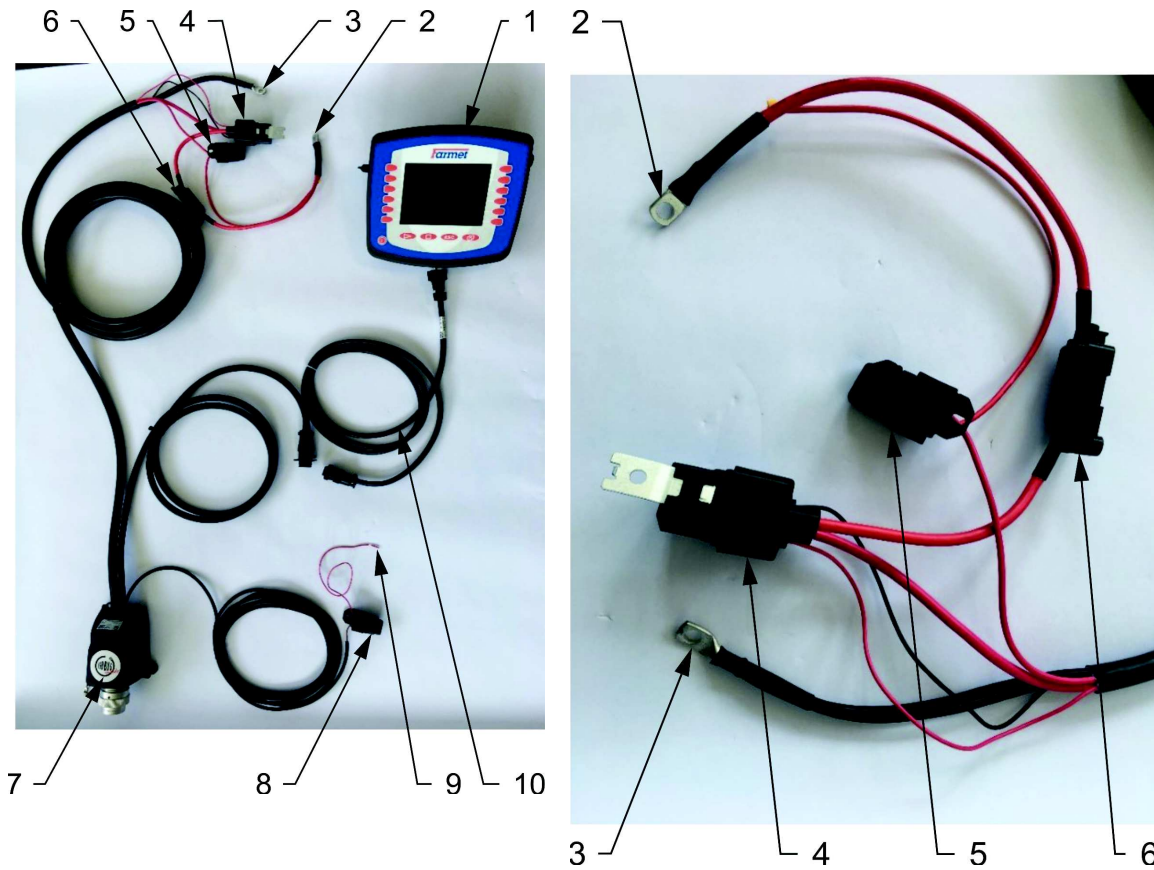
10.4.1 Connection to tractor battery + Müller terminal

- The electronic unit of the machine only connect when the tractor is at standstill, secured against movement and against the intervention of strangers.
- Use the power cord supplied with the machine to connect the electronic unit. The connecting cable must be connected directly to the tractor battery!
- Place the terminal in the tractor in a place where it will not obstruct the driver’s view and at the same time be in the operator’s field of vision.
- Secure the wiring securely to prevent mechanical or thermal damage.
- To connection cable set contains a voltage relay, which is switched by a cable that is ideally attached to the ignition of the tractor, or to 12 V switched. This relay switches the communication between the machine control unit and the terminal.



- If welding is required on the machine or tractor disconnect the unit from the power supply and disconnect the connecting cables.
- Never replace the fuse with another object and always replace it with a fuse with the same fuse when replacing it.

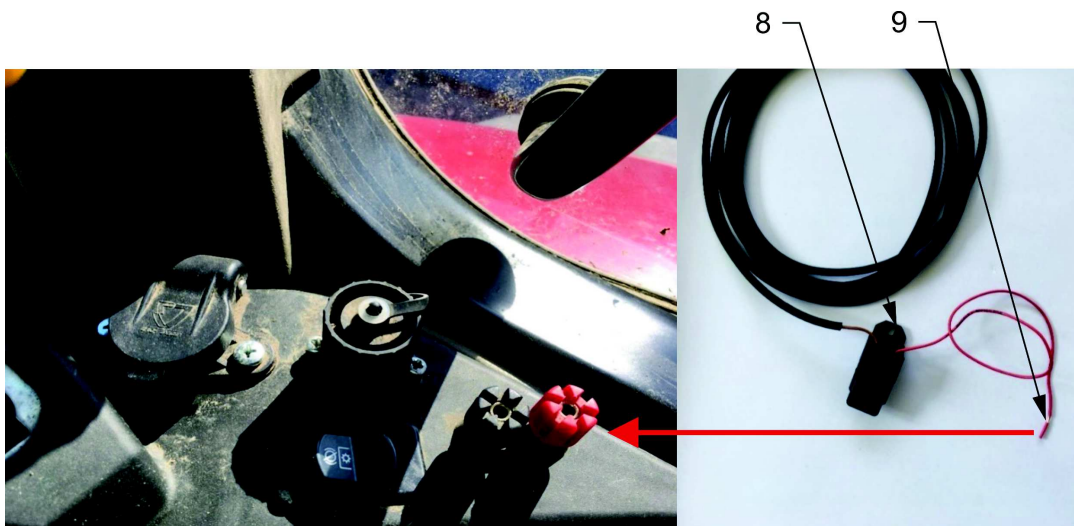




| | | | |
|---|---------------------------|----|--------------------------------------|
| 1 | Terminal | 6 | Fuse 50 A |
| 2 | Positive battery pole „+“ | 7 | ISO socket |
| 3 | Negative battery pole „-“ | 8 | Fuse 1 A |
| 4 | Voltage relay | 9 | Ignition contact for relay switching |
| 5 | Fuse 15 A | 10 | Terminal connection cable |

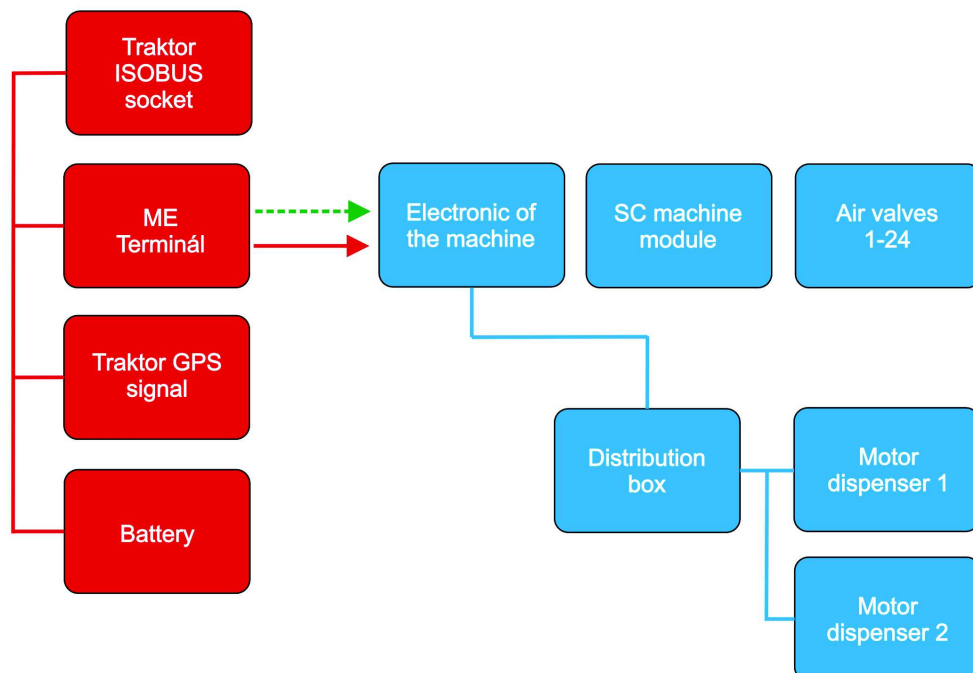
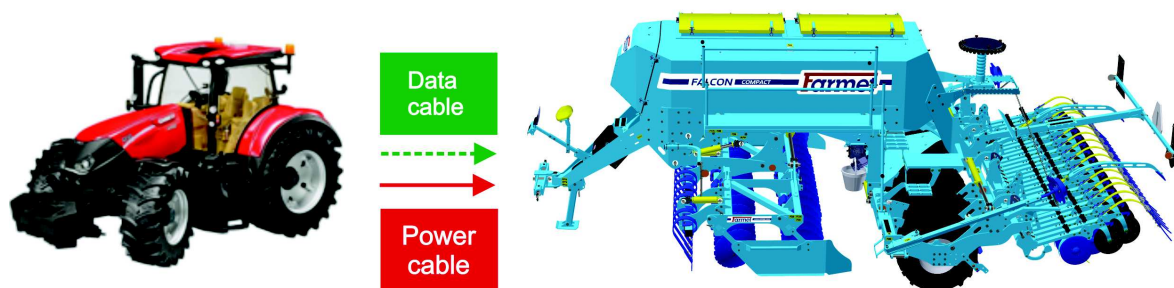


Due the disconnection of the unit from the battery, it is necessary to connect the ignition contact for closing the relay (9) to the ignition of the tractor, or to the switched 12 V (voltage 12 V switched by the key or switch).



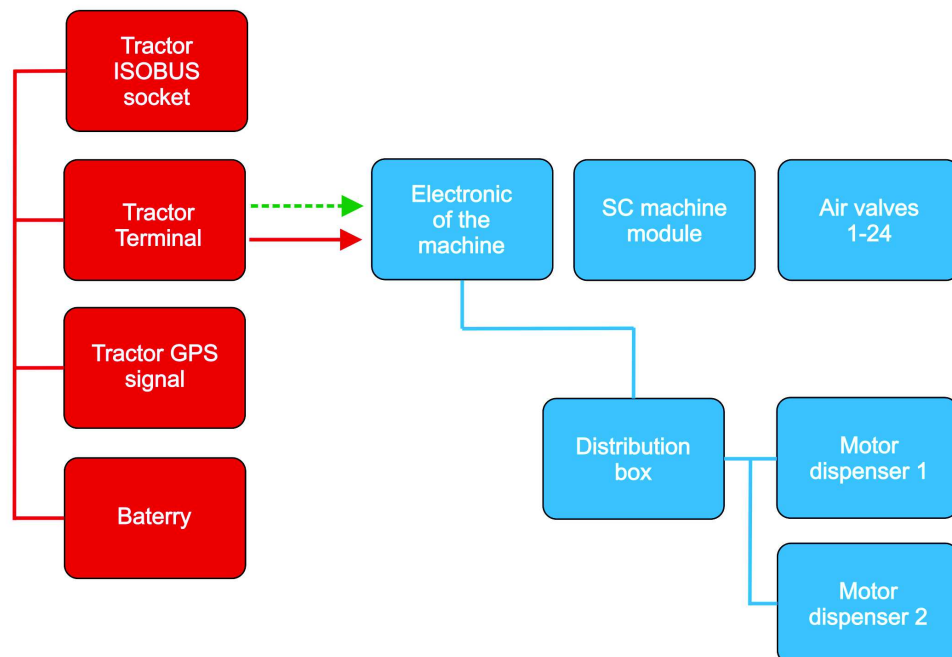
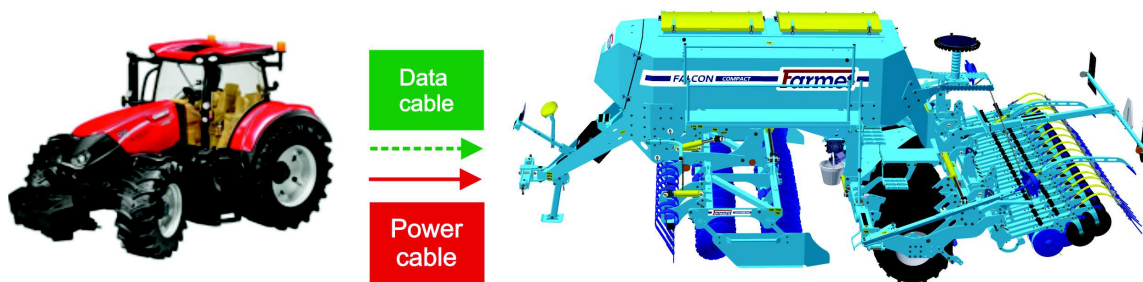
10.4.2 Connecting the machine via the ISOBUS socket of the tractor + Müller terminal

- Connect the machine plug to the ISOBUS socket of the tractor.
- Use the reduction cable of the terminal and connect to the IN-CAB socket of the tractor and connect the terminal.
- For this use it is necessary to set the terminal as VT 1, you can read this in the chapter **VT a TC settings (10.4.4)**.




10.4.3 Connecting the machine via the tractor’s ISOBUS socket + Tractor terminal

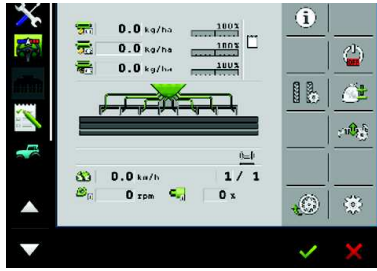
- Connect the machine plug to the tractor socket.
- ISOBUS VT must be switched on in the tractor settings.
- The machine application is loaded in the tractor ISOBUS application after 2-5 minutes (communication between the tractor and the machine must take place first).




10.4.4 Selecting and setting up the virtual terminal (VT) and task manager (TC)

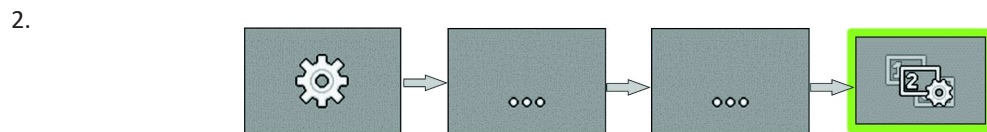
1.  Turn on the application

Touch

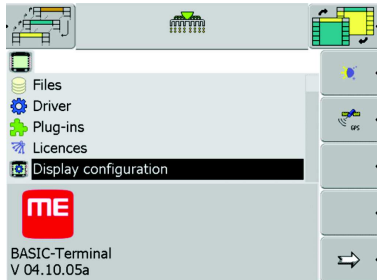


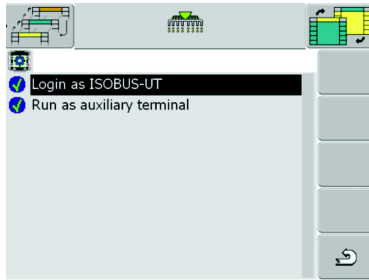
Basic







3. Select which virtual terminal you want to use (VT), for example **Mueller** or **another terminal**
- For the basic terminal, it is necessary to select in the settings that it also work as a secondary terminal.





4. Select which task manager you want to use (TC), such as **Mueller** or **other terminal**

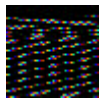




5.  Confirm

- Settings of virtual terminal and task manager is complete.

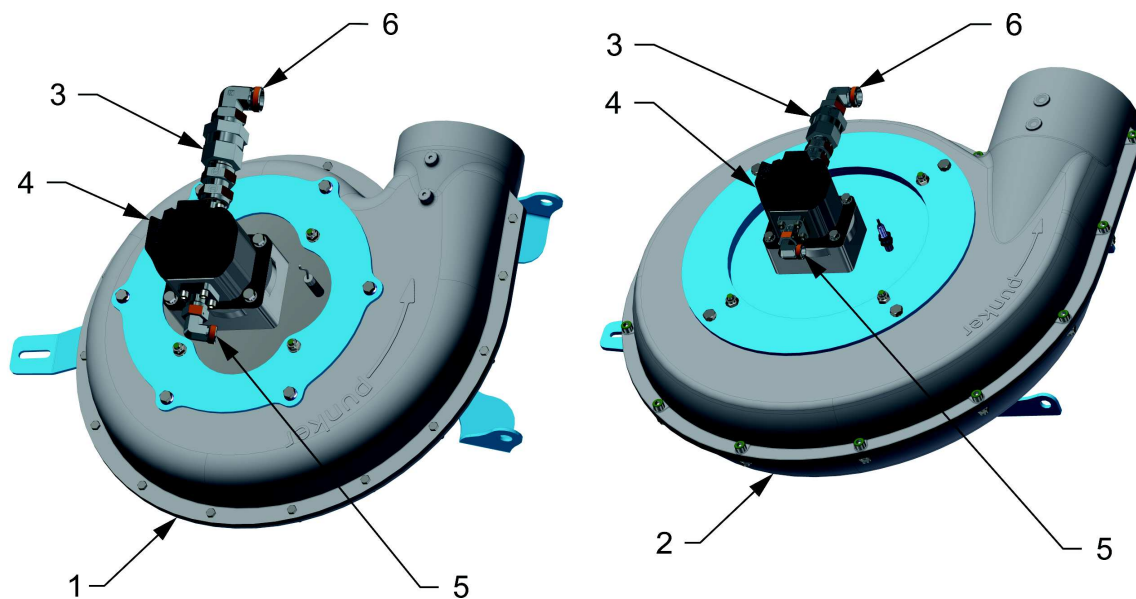
11 MACHINE FAN



- The hydraulic drive of the fan is driven directly from the tractor switchboard.
- It is necessary that the fan drive is connected to the tractor’s priority circuit to ensure that the fan speed does not drop in any sense.
- The fan speed is set directly in the tractor by regulating the oil flow of the circuit.



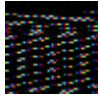
- Replacing of the quick coupling for the non-pressure return with less than ISO 20 is unacceptable.



* See chapter 1 for your machine configuration.

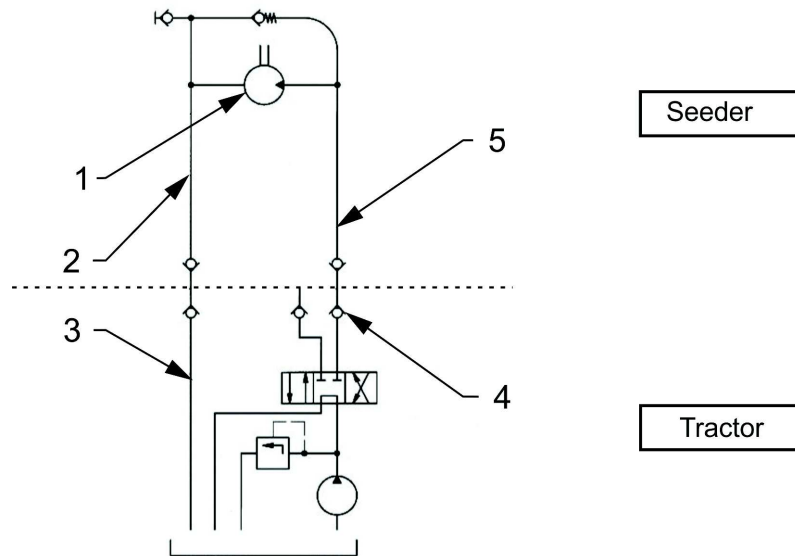
| | | | |
|---|------------------------|---|--------------------------------|
| 1 | Small fan V1 | 4 | Hydraulic motor |
| 2 | Big fan V2 | 5 | Pressure hose ISO 12,5 (P) |
| 3 | Reverse throttle valve | 6 | Non-pressure return ISO 20 (T) |

| | | | |
|-------------------------|---|-------------------|-------------------------|
| Hydraulic fan motor | Hydraulic engine capacity per revolution | | 8 cm ³ /rev. |
| | Big fan | Maximum speed | 4000 (rev. /min.) |
| | | Minimum speed | 1000 (rev. /min.) |
| | Small fan | Maximum speed | 4500 (rev. /min.) |
| Minimum speed | | 1000 (rev. /min.) | |
| Pressure branch (P) | Minimum pressure in the pressure hose | | 130 (bar) |
| | Maximum pressure flow in the pressure hose | | 50 (l/min.) |
| Non-pressure return (T) | Maximum pressure in the non-pressure return | | 5 (bar) |



In case, if free waste is not fitted to the tank as standard on the tractor, contact the tractor manufacturer (dealer), who will provide you with information on the options for the free waste terminal.

- Hydraulic connection of the fan drive

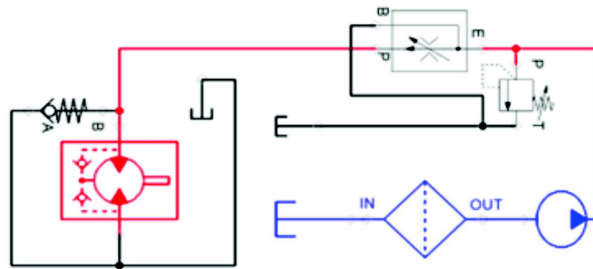
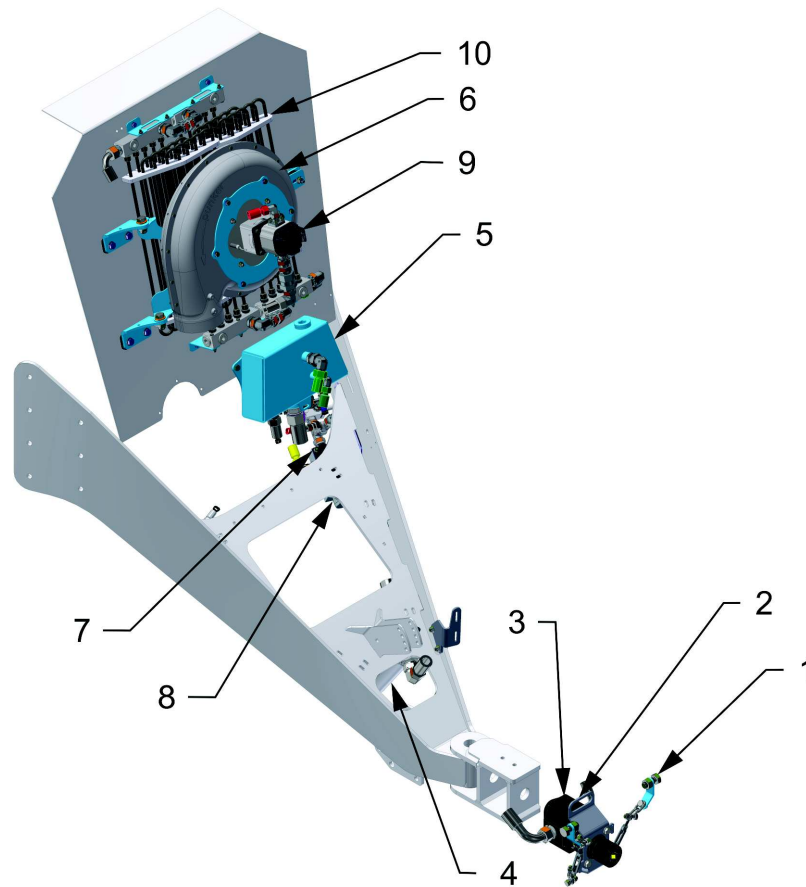


| | | | |
|---|---|---|--------------------------------------|
| 1 | Fan hydraulic motor | 4 | Quick coupler of tractor switchboard |
| 2 | Non-pressure return ISO 20 (T) | 5 | Pressure hose 12,5 (P) |
| 3 | Non-pressure return in the tractor tank | | |

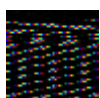


Farmet a.s. is not liable for damage to the hydraulic drive or tractor caused by incorrect connection of the hydraulic drive.

11.1 Fan with separate drive on PTO



| | | | |
|---|-------------------------|----|--------------------------|
| 1 | Generator locking screw | 6 | Ventilator |
| 2 | Handling handle | 7 | Safety valve |
| 3 | Hydraulic generator | 8 | Fan speed reducing valve |
| 4 | Low pressure oil filter | 9 | Hydraulic fan motor |
| 5 | Oil tank | 10 | Oil cooler |



- Securing the hydraulic generator against rotation with chains.
- Always use the PTO fan set to 540 rpm.

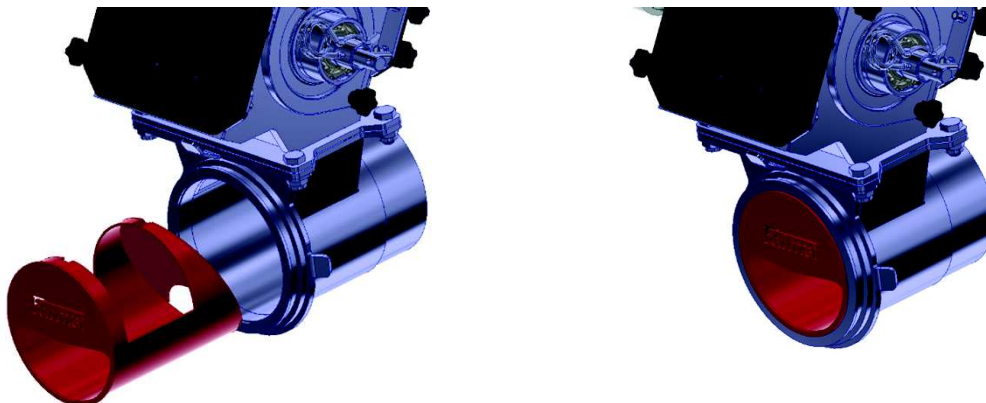
Methods to set the fan speed:

1. Connect the hydraulic generator (3) to the tractor PTO.
 2. Set the working speed on the tractor (540 rpm).
 3. Use the reducing valve (8) to set the required fan speed.
 4. Check the speed on the machine monitor.
- If the machine is equipped with an oil cooler, it is necessary to clean it, see [Maintenance plan](#) (33.1)
 - The oil cooler is located under the dump fan at the front of the hopper.

11.2 Fan speed setting according to seed



When a low batch of small seeds, such as rapeseed, is combined with a high batch of larger seeds or fertilizer, it is required to install an **air reduction insert (restrictor)** into the dispenser for small seeds in order to prevent the seeds from jumping out of the groove.


































If the machine is equipped with a fertilization chamber and no fertilization is required, the air supply for the fertilization branch can be closed using the valve behind the fan as described in Chapter 11.3



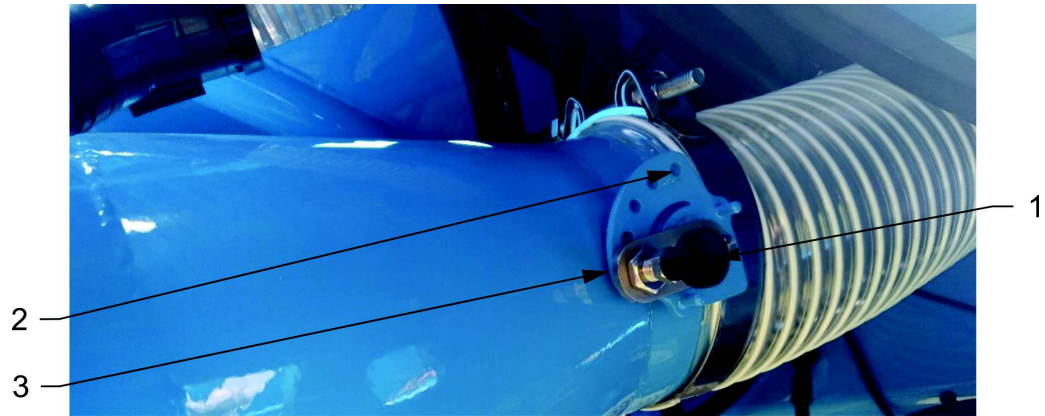
The air flow should not be too strong as it may blow out the seeds or the fertilizer from the seeding row. When the air flow is too weak, there is a risk of insufficient stream of seeds through the hoses which may cause clogging, so pay attention to the proper setting of the fan speed according to the table below.

Table for setting the fan speed and using the restrictor

| Fertilizer batch | Crop | Seed batch, dispenser 1 | Seed batch, dispenser 2 | | | |
|---|-------------------------|-------------------------|---|---|---|---|
| | | | rapeseed, clover, grass | cereals | soya, lupine | legumes |
| no supplementary fertilization valve behind the fan fully closed | rapeseed, clover, grass | 1-50 | 1500-2500  1. | 2500-3500  1. | 2500-3500  1. | 3000-4000  1. |
| | cereals | 50-180 | 2500-3500  2. | 2500-3500 | 2500-3500 | 3000-4000 |
| | soya, lupine | 50-180 | 2500-3500  2. | 2500-3500 | 2500-3500 | 3000-4000 |
| | legumes | 180-350 | 3000-4000  2. | 3000-4000 | 3000-4000 | 3000-4000 |
| 1-50 valve behind the fan fully opened | rapeseed, clover, grass | 1-50 | 2500-3500  1.  2. | 2500-3500  1. | 2500-3500  1. | 3000-4000  1. |
| | cereals | 50-180 | 2500-3500  2. | 2500-3500 | 2500-3500 | 3000-4000 |
| | soya, lupine | 50-180 | 2500-3500  2. | 2500-3500 | 2500-3500 | 3000-4000 |
| | legumes | 180-350 | 3000-4000  2. | 3000-4000 | 3000-4000 | 3000-4000 |
| 50-180 valve behind the fan fully opened | rapeseed, clover, grass | 1-50 | 2500-3500  1.  2. | 2500-3500  1. | 2500-3500  1. | 3000-4000  1. |
| | cereals | 50-180 | 2500-3500  2. | 2500-3500 | 2500-3500 | 3000-4000 |
| | soya, lupine | 50-180 | 2500-3500  2. | 2500-3500 | 2500-3500 | 3000-4000 |
| | legumes | 180-350 | 3000-4000  2. | 3000-4000 | 3000-4000 | 3000-4000 |
| 180-350 valve behind the fan fully opened | rapeseed, clover, grass | 1-50 | 3000-4000  1.  2. | 3000-4000  1. | 3000-4000  1. | 3000-4000  1. |
| | cereals | 50-180 | 3000-4000  2. | 3000-4000 | 3000-4000 | 3000-4000 |
| | soya, lupine | 50-180 | 3000-4000  2. | 3000-4000 | 3000-4000 | 3000-4000 |
| | legumes | 180-350 | 3000-4000  2. | 3000-4000 | 3000-4000 | 3000-4000 |

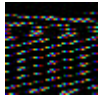
11.3 Fertilizing air control valve

- The position of lever 1 can be used to set the amount of air that flows into each branch.
- Position 2 means that the air flow to the branch is fully closed.
- Position 3 means that the air flow to the branch is fully open.

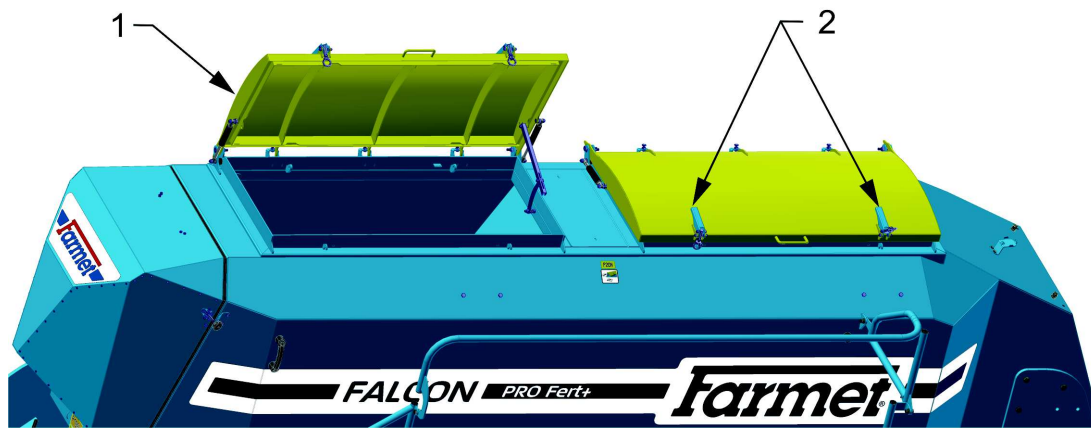


| | | | |
|---|-------------------|---|-----------------------|
| 1 | Valve locking pin | 3 | Maximum valve opening |
| 2 | Closed valve | | |

12 PRESSURE SYSTEM OF THE MACHINE



It is necessary to check the leakage of compressed air, especially around the tank lid.



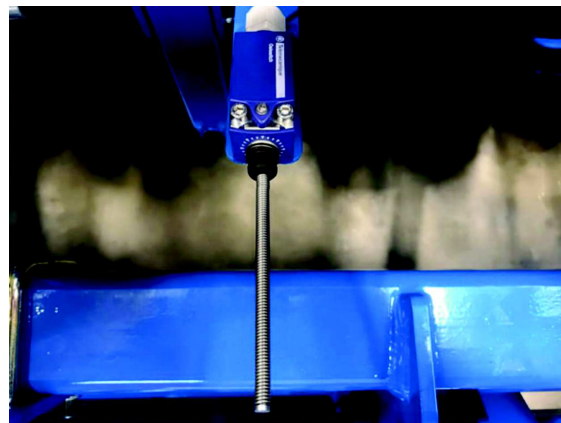
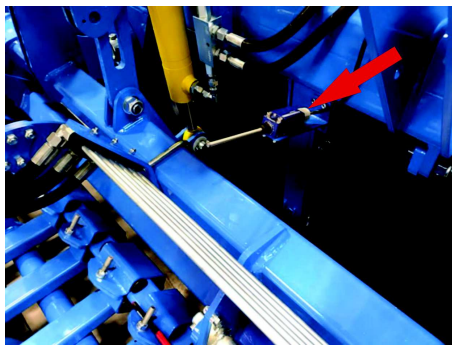
| | | | |
|---|------------|---|--------------------------------|
| 1 | Hopper lid | 2 | Lever to secure the hopper lid |
|---|------------|---|--------------------------------|

13 SEED SWITCHING SENSORS

- Sowing switching is switched off and on by two sensors.
- The system is designed so that sowing is switched at the beginning of the countersinking. Before the seed passes through the entire pneumatic distribution system, the machine is recessed and it is minimized the sowing start delay at the start of the journey.
- On the contrary, sowing is switched off at the very beginning of excavation.

13.1 Sowing switching

- Switching is secured by an antenna sensor. The antenna sensor is set to close right at the beginning of the countersinking.
- If the sensor is in a horizontal position (as in the picture), it means that the machine is in the working position.
- The moment at which the sowing is switched on depends on the position of the sensor set between the seed frame and the main machine frame.



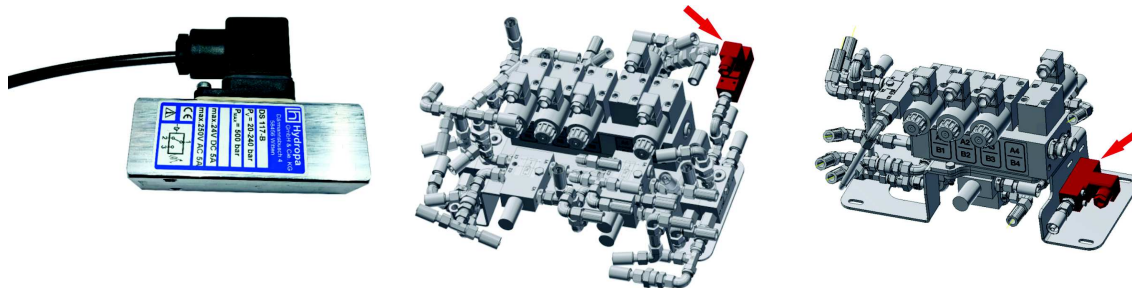
- If the seed section frame is in the upper position, the sensor must be in the closed position.

13.2 Sowing off

- The sowing is switched off by a pressure sensor, which is located on the hydraulic circuit for raising the seed section.
- The sensitivity of this sensor is set to a pressure of 100 Bar.
- When excavating the machine, oil pressure is supplied to the hydraulic distributor, when the set value is reached, the switch is closed and the motors of the seed and fertilizer metering units are deactivated.



- For this reason, move the hydraulic control lever to the float position after deepening the machine into the working position!
- The sensitivity of the pressure and antenna sensor is set by the manufacturer as standard. Settings may only be changed by a specialist.























14 ELECTRONIC MACHINE CONTROL MÜLLER ELECTRONIC

- The electronic system controls all functions that are connected to the blue hydraulic circuit.

14.1 Work screen

The screenshot shows a control interface for a machine. At the top, there are speed and distance indicators (0.0 km/h, 0 ot/m) and a gear icon (17). Below this are three rows of dose settings (0.0 kg/ha) with percentage indicators (100%) and a sensor field (13). The center features a 3D model of the machine's sowing mechanism. On the right side, there are control buttons for 'OFF' (11), a percentage adjustment (10), and hydraulic functions (9, 8, 7). At the bottom, there are more speed and distance indicators (0.0 km/h, 0 ot/m) and a gear icon (15). The interface is divided into several functional areas, each indicated by a number from 1 to 19.

| | | | |
|----|---|----|--|
| 1 | Job information | 11 | Turn off the work application |
| 2 | Tramline settings | 12 | Empty tray indication |
| 3 | Motor 1 (dispenser) | 13 | Sensor information field (machine in working position) |
| 4 | Motor 2 (dispenser) | 14 | Adjusted target dose field in % |
| 5 | Motor 3 (dispenser) | 15 | Trip counting for tramlines |
| 6 | Site sowing function | 16 | Current state of the hopper 1/2/3 (can be changed) |
| 7 | Fields of active functions (markers, obstacle, swamp) | 17 | Speed of fan |
| 8 | Settings | 18 | Travel speed of the machine |
| 9 | Control of hydraulic functions of the machine | 19 | Dispenser dose information 1/2/3 |
| 10 | Sowing rate correction | | |

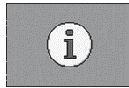
| | | | |
|---|---|---|---------------------------------|
|  | Beacon is activated |  | Both markers activated manually |
|  | Hopper lights are activated |  | Manually activated left marker |
|  | Working light is activated |  | Manually activated right marker |
|  | Function swamp is activated |  | Markers are deactivated |
|  | The dispensers are filled with seed |  | Automatic markers (first left) |
|  | ISOBUS-TC is activated |  | Automatic markers (first right) |
|  | Section-Control is activated, including GPS |  | Obstacle function |
|  | Hopper is empty |  | Working speed of the machine |
|  | Machine is in working position |  | A tramline is being created |
|  | An earlier engine stop is activated |  | Calculated system pressure |

*All icons on the terminal side are function keys (two-column image).



14.2 Information

1.



On the work screen

| Function icon | Meaning |
|---------------|-----------------------------|
| | Resetting the daily counter |
| | Counter summary information |
| | Task list (TASK) |
| | Total stack counter |

- **Area** – The area on which the machine was in the working position
- **Quantity** – Applied amount
- **Area performance** – Applied area per hour

2.



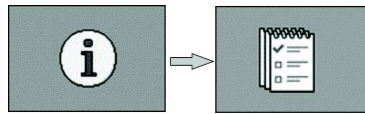
- Counter summary information

- **Operating hours** – Period time for which the computer is turned on
- **Total hours** – Period time, which the machine was working for
- **Total distance** – Worked distance
- **Total area** – Worked area
- **Area performance** – Applied area per hour

14.3 Creating a task with a computer

- This function allows you to create an order, for an overview of information about the work performed.

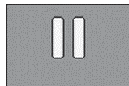
1.



On the working screen.

- **Order** – Select an existing one or create a new task
- **Rename** – Here you can name the order
- **Product** – Here we assign the product (**MOTOR / SEED / FERT**).

2.



After the end of contract

3.

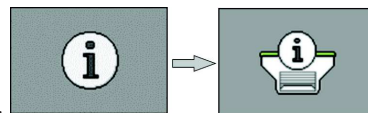


It is possible to reset the counter

14.4 Remaining calculated amount in the hopper

- On the screen Results / The hopper will see counters that show the amount remaining in the hopper and how much work can still be done with the remaining contents of the hopper.

1.



On the working screen .

- **Leftover amount** – Remaining sum in the hopper.
- **Leftover area** – OArea where you can still work with the remaining sum in the hopper.
- **Leftover track** – The distance that can still be traveled with the remaining sum in the hopper.

2.



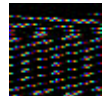
Use to return to the work screen

14.5 Unfolding and folding the machine

- The blue hydraulic circuit of the machine must be connected to the double-acting hydraulic circuit of the tractor.



- The operator must ensure that when folding or unfolding the side frames, no person or animal is within their reach (means at the point of impact) or in the near area and that no one pushes their fingers or other parts of the body into the joint space.



- Folding or unfolding the machine at rest, on level and standstill surfaces.
- Remove adhering dirt on the folding frames, especially around the joints, end valves, stops and secured sections. The dirt can prevent folding, unfolding or mechanical damage.
- While folding and unfolding, check the side frames and let them smoothly to the end of position.

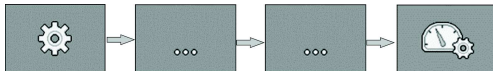
14.6 GPS settings for machines when unfolding in the hall

For service purposes of the machine in the hall, it is necessary to set the simulated speed to 0 km/h when unfolding the machine in the hall.

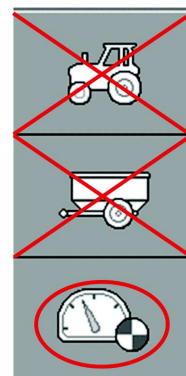
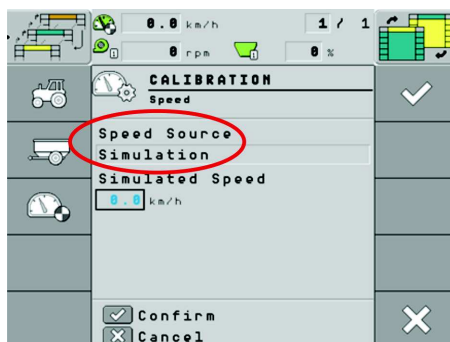
1. Turn off the application



- 2.

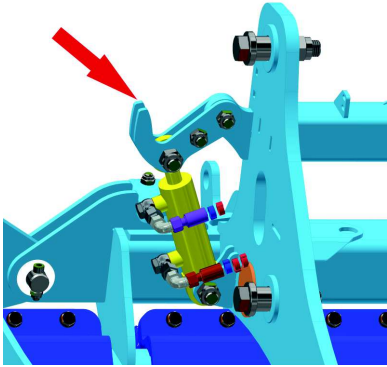
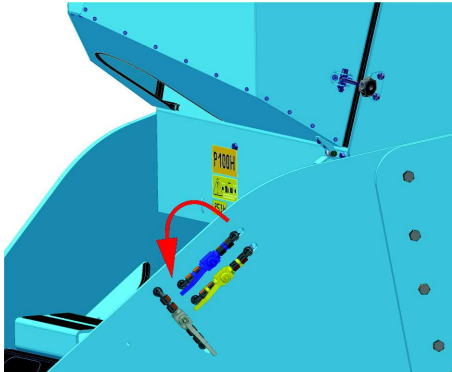







- 3.


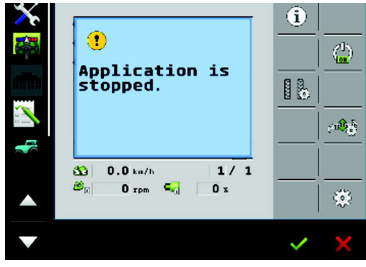





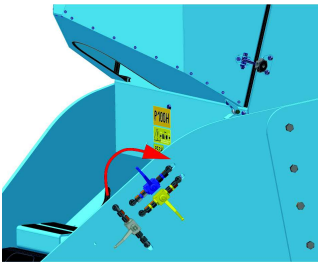
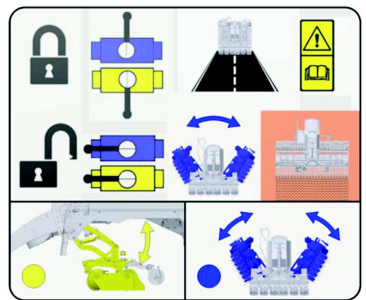
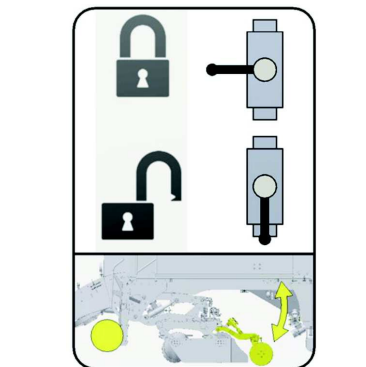


Set the speed source to 0 km/h! Switch back to the workload when the machine is fully deployed.

14.7 Unfolding the machine

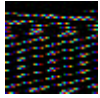
| | | |
|---|---|--|
| 1. | Before unfolding the machine it is necessary to unlock the side frames on the front preparation section. This locking is hydraulic (unlocks automatically). | |
| HYDRAULIC SECURITY | | |
|  | | |
| 2. | Opening the blue ball valve (It must remain open during work). | |
|  | | |
| 3. | All sections of the machine must be in the raised position (antenna sensor closed) | |
| 4. |  | <ul style="list-style-type: none"> Hydraulic control |
| 5. |  | <ul style="list-style-type: none"> Switch on folding |
| 6. | Apply pressure to  | |
| 7. |  | <ul style="list-style-type: none"> Confirm after complete unfolding |
| 8. | Apply pressure to  | <ul style="list-style-type: none"> To lift a rear section |

14.8 Folding the machine

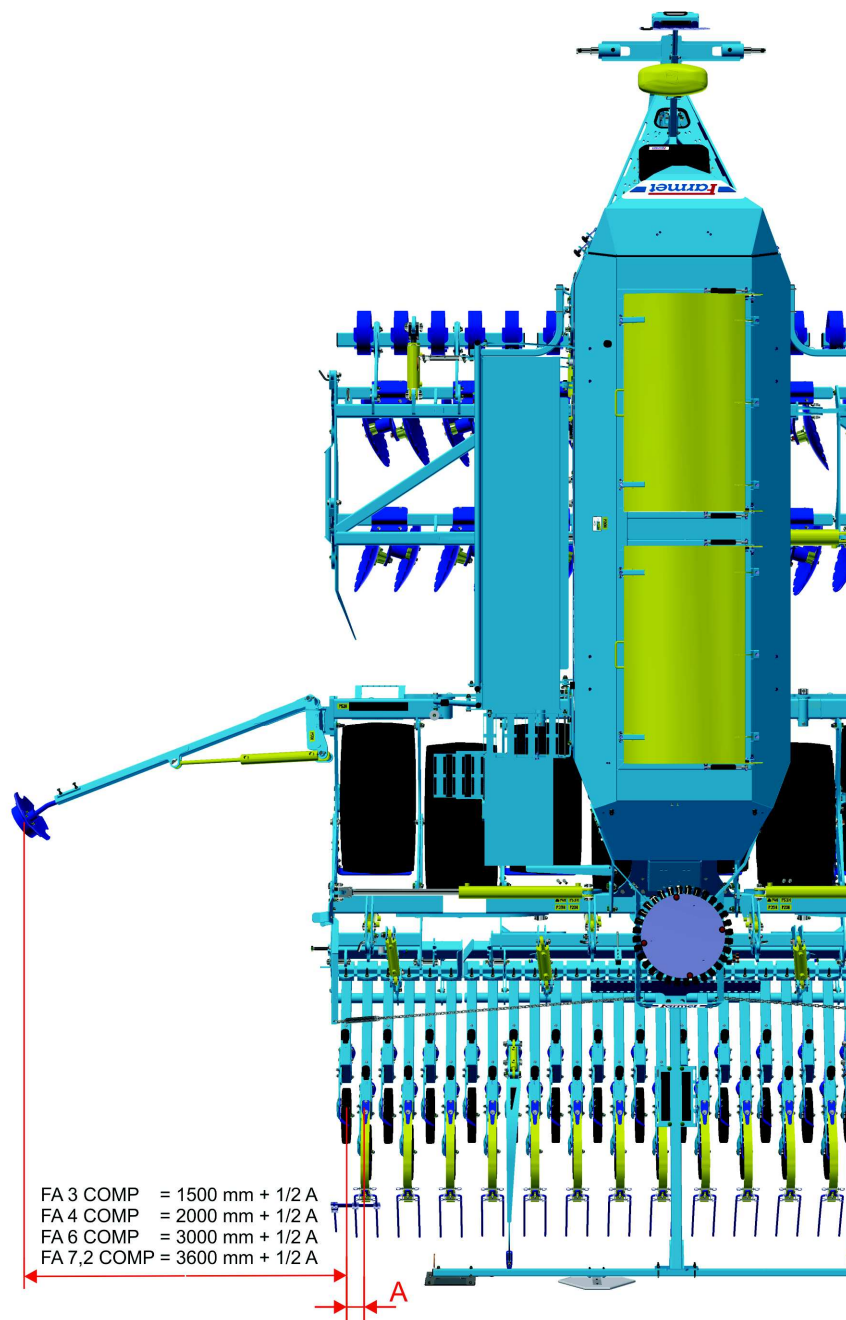
| | | | | |
|---|---|--|---|--|
| 1. |  | <ul style="list-style-type: none"> Switch application off |  |  |
| 2. | The machine must be in the upper position (antenna sensor closed). | | | |
| 3. |  | <ul style="list-style-type: none"> Hydraulic control | | |
| 4. |  | <ul style="list-style-type: none"> Switch on folding | | |
| 5. | Apply pressure to  | | | |
| 6. |  | <ul style="list-style-type: none"> Confirm after complete folding | | |
| 7. | Closing the blue ball valve. | | | |
|  |  |  | | |

14.9 Control and settings of the markers

- The markers are adjustable only to the center of the tractor, they copy the terrain, each track marker can be controlled separately and they are hydraulically tiltable.
- The distance of engagement of the marker disc is always measured from the center of the seed coulters. The markers must be set to the correct length in the field.



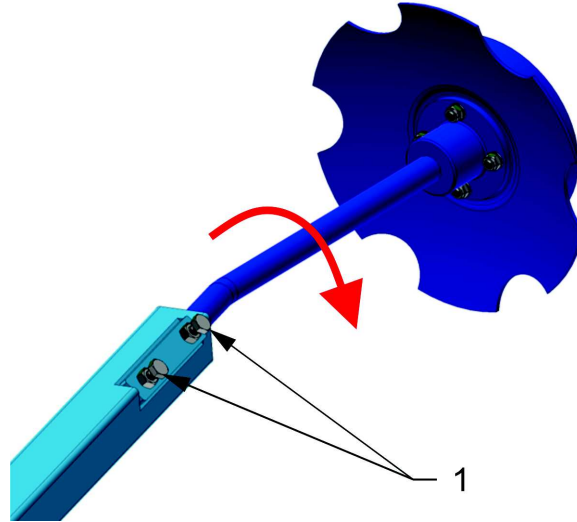
The markers are only activated when the machine is in the working position



14.9.1 Settings of aggressivity of the markers

- Adjust the aggressivity of the markers depending on the soil conditions.


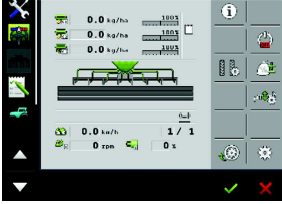
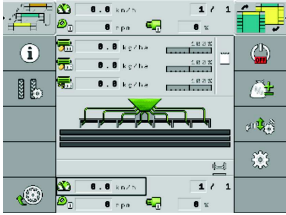


1. Loosen the hexagonal screws (1)




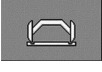






1 – Hexagonal safety screws

2. Adjust the marker and retighten the hexagonal screws.
3. Check the quality of the work of the markers and adjust the marker settings if necessary.

14.9.2 The markers control

1.  • Turn on the application the  
2.  • Hydraulic control
3.  • The markers control

| Function icon | Meaning |
|---|---|
|  | Control of the left marker only |
|  | Deactivate marker control |
|  | Obstacle function- the hydraulics only control the marker without the rear sowing section |
|  | Control of both markers at the same time |
|  | Control of the right marker only |
|  | Automatic change of the marker when the seeding section is raised |
|  | Manual marker change in automatic mode |

4. After selecting the function, apply pressure to . The markers are controlled by a blue hydraulic circuit at the same time as the sowing section.



14.9.3 Obstacle function

- If the obstacle function is activated, the hydraulic circuit only controls the markers and the sowing section is still in the working position

1.



- Hydraulic control

2.



- The markers control

3.



- The obstacle activation

4.

The activated obstacle function is displayed on the work screen



5.

Apply pressure to



6.

Detour the obstacle and then apply pressure



7.



- Deactivation of an obstacle

14.9.4 Swamp function

- The swamp function is used to raise the sowing section, without cancelling the sowing.

1.

The machine must be in working position



2.



- Hydraulic control

3.



- Activate function swamp

4.

The activated swamp function is displayed on the work screen



5.

Apply pressure to sowing section is lifting but the machine is still working

6.

Apply pressure to sowing section is deepens

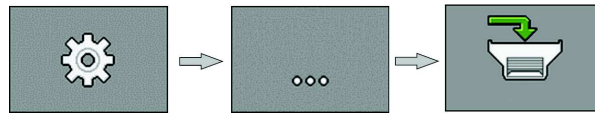
7.



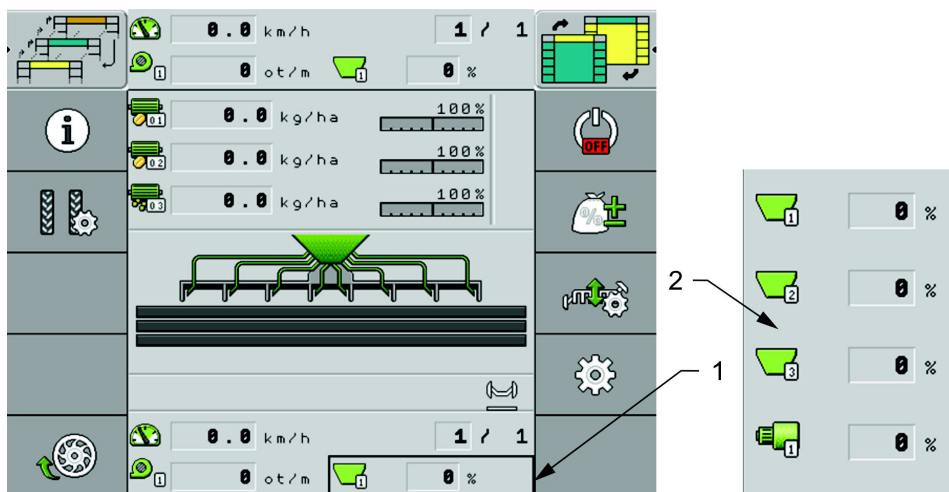
- Deactivation of the swamp function

14.10 Enter the hopper fill

- The system allows the calculation of the tank status in real time, based on a calibration test. This function is not necessary for the correct operation of the machine.




| | | | |
|---|--|---|-----------------------------------|
| 1 | Current residual amount in the hopper | 3 | Maximum filling of the tank |
| 2 | Write the quantity poured into the hopper here | 4 | Resetting the state in the hopper |




| | | | |
|---|---|---|---|
| 1 | Hopper 1 status indicator in % based on sowing test | 2 | Open menu of real-time values (choose which ones I currently want to display) |
|---|---|---|---|


14.11 User product database

1.  • Shutting down the application

Touch



Basic



2.  →  → 

Product

- Here I choose which motor I want to modify (motor 1/2/3, nebo Seed/Fertilizer) according to the machine configuration.

Rename

- Here you can rename the product.

Type of product

- For the engine, select the product type seed / solid fertilizer / liquid fertilizer / undefined.

Note

- Here you can enter any note, for example MARGED.

Adapt

- Here it is possible to set a percentage value by which the required dose value can be changed manually during work.

Example: 1 x press by 10%, 2 x press by 20%

Gear ratio

- If there is a gear behind the outlet shaft motor, it must be entered here. The motor shaft speed is entered first and then the metering unit speed.

Example: 2 rev. motor / 1 rev. dispenser

Level alarm

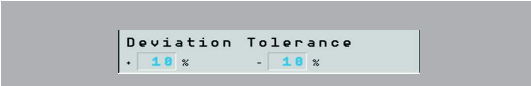
Low / Empty – Only if two sensors are used one above the other for one dispenser.

Empty – In case of using one sensor for the dispenser.

Deactivate – To deactivate the dispenser sensor.

Deviation tolerance

- For each motor, enter the deviation from the required dose above which an alarm should be triggered.
- For a precision seed machine the deviation tolerance applies to each row.
- The left value applies to the upward deviation and the right value to the downward deviation.



14.12 Assignment of the motor to the given hopper



1.  • Shutting down the application

Touch



Basic



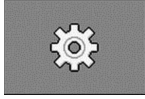
2.  → 

| | | | |
|---|--------------------------------|---|--|
| 1 | Settings of hopper 1 / motor 1 | 2 | Assigned product from the product database |
|---|--------------------------------|---|--|

14.13 Activation / Deactivation dispenser

- This function is used to deactivate the metering motor, which we do not want too use during work (sowing with one metering unit, deactivation of fertilization).

1.



- Settings

2.

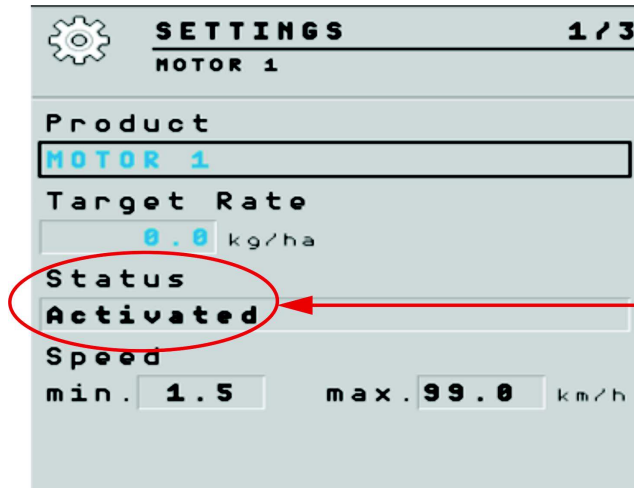
Select the product (dispenser) that you want to deactivate by pressing on its name (MOTOR 1)



3.



- Deactivation / Activation



Status
Deactivated


4.

This shows the deactivated dispenser on the desktop.




- After switching the terminal off and on again, the dispenser is always reset (activated).

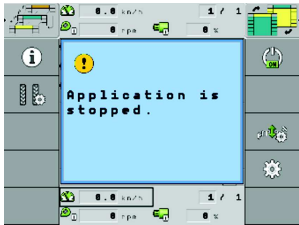
14.14 Seed flow sensing Dickey-John-deactivation

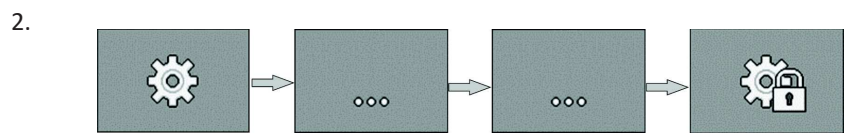
1.  Shutting down the application

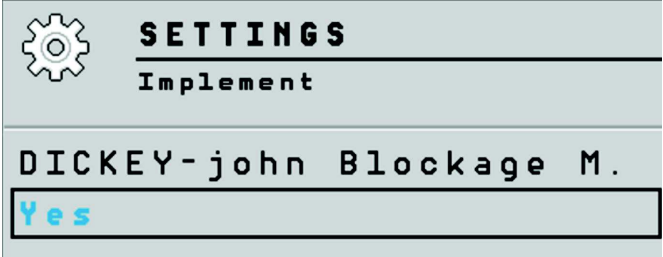
Touch



Basic





3. 

4. 

- 5. Seed flow sensing deactivated.
- 6. To reactivate the sensors, select YES.

14.15 Acoustic Signal When Seeding Is Interrupted

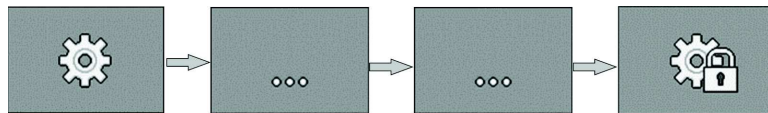


- Turning off the application

- The system is equipped with acoustic signalization in case one of the seeding conditions is not met
- The working conditions include :

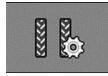
- Activated application
- Fan speed over 1,000 RPM.
- Information on the speed from the GPS sensor
- Active working position of the seed drill

- When any of the conditions is not met, the machine does not seed and the operator is notified by an acoustic signal.




| | |
|---|---|
| 1 | Signalling on/off |
| 2 | Signalling activation delay |
| 3 | Dickey-john sensor setting, see chapter 14.14 |

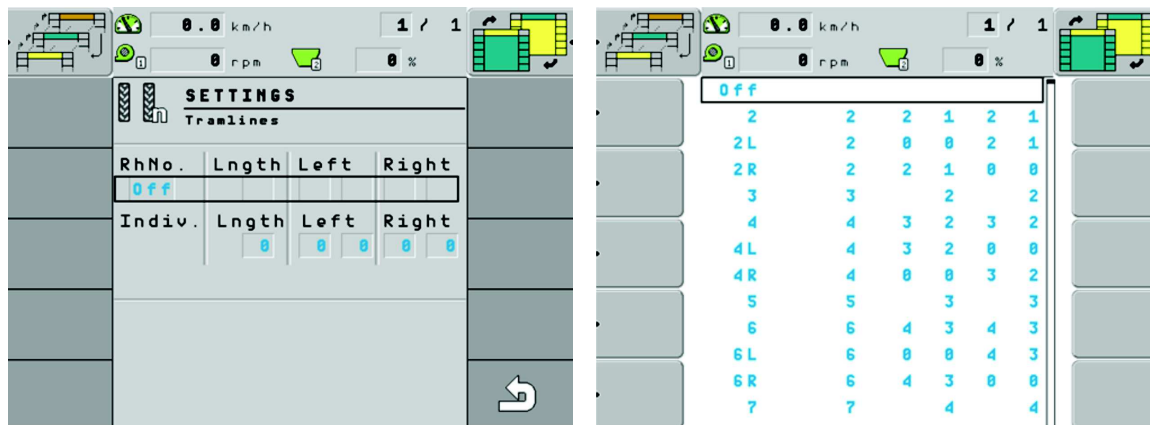
15 RAIL LINES



- Rail lines settings.

| Functional icon | Meaning |
|-----------------|--|
| | Adds driving. E.g. to set the number of rides correctly after returning to the field. This function is only available when the machine is stopped and not in the working position. |
| | Subtract the ride. E.g. To set the number of rides correctly after returning to the field. This function is only available when the machine is stopped and not in the working position. |
| | Deactivation the automatic addition of trips.  If the tramline counting is stopped, the machine will do the tramline continuously. |
| | Opens the screen for setting the tramline rhythm. |

15.1 Rail lines set on and off



| RhNo. | Lngh | Left | Right |
|--------|------|------|-------|
| Off | | | |
| Indiv. | Lngh | Left | Right |
| | 0 | 0 | 0 |

| | | | | | |
|-----|---|---|---|---|---|
| Off | | | | | |
| 2 | 2 | 2 | 1 | 2 | 1 |
| 2L | 2 | 0 | 0 | 2 | 1 |
| 2R | 2 | 2 | 1 | 0 | 0 |
| 3 | 3 | | 2 | | 2 |
| 4 | 4 | 3 | 2 | 3 | 2 |
| 4L | 4 | 3 | 2 | 0 | 0 |
| 4R | 4 | 0 | 0 | 3 | 2 |
| 5 | 5 | | 3 | | 3 |
| 6 | 6 | 4 | 3 | 4 | 3 |
| 6L | 6 | 0 | 0 | 4 | 3 |
| 6R | 6 | 4 | 3 | 0 | 0 |
| ? | ? | | 4 | | 4 |

| | |
|---------------------|--|
| RhNo. | Program number |
| Length | The period when the cycles start to repeat |
| Left, Right | Specifies the travel in which the tramline on the left or right side of the machine is activated |
| Individual settings | Here we can choose our own settings |

15.2 Steps for setting the tramline rhythm correctly

Necessary information for calculating the rhythm of tramlines.

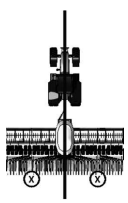
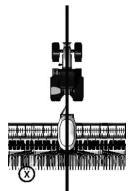
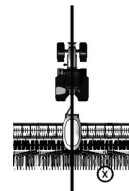
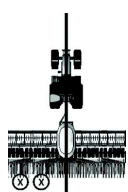
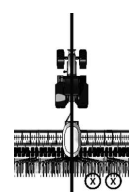
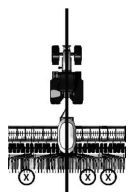
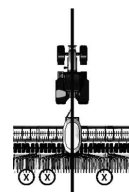
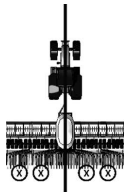
1. Seeder grip
2. Sprayer grip

We will perform calculation

Result of the calculation = Sprayer grip / Seeder grip

Possibilities of creating tramlines

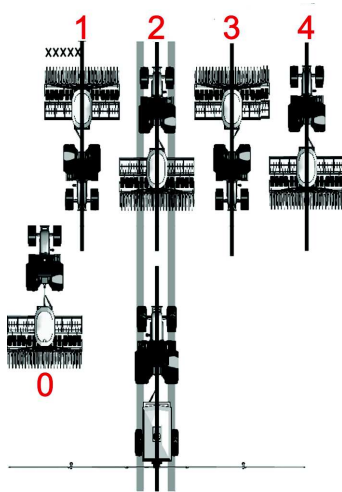
1. Even results – Even tramline rhythms (15.2.1)
2. Odd result – Odd tramline rhythms (15.2.2)
3. Decimal results – Special tramline rhythms (15.2.3)

| Types of valves placement on the machine | |
|---|--|
|  | <ul style="list-style-type: none"> • TYP A • One valve on each side of the machine |
| <p>or</p>   | <ul style="list-style-type: none"> • TYP B • One valve on one side of the machine |
| <p>or</p>   | <ul style="list-style-type: none"> • TYP C Two valves on one side of the machine |
| <p>or</p>   | <ul style="list-style-type: none"> • TYP D • One valve on one side of the machine and two valves on the other side of the machine |
|  | <ul style="list-style-type: none"> • TYP E • Two valves on each side of the machine and each side of the machine create a complete rail line for the entire sprayer (2 tracks) |

15.2.1 Even tramline rhythms

- It is possible to create an even tramline during one or two runs.
1. During one run, tramlines are created on both sides of the machine
 2. During two runs, tramlines are created, the valve is located only on one side of the machine
 3. During one run, tramlines are created, both valves are on one side of the machine

Example: Creating a tramline on both sides of the machine at the same time.



- The example shows a 4s rhythm
- Rail lines are created in two runs (sprayer 12 m, seeder 3 m)
- Run 0 must be done separately
- For run 0 trip counting must be deactivated

Creating a tramline in one run TYPE A

| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valves | | Right valves | |
|--------------------------|---------------------------|-------|----------------------|-------------|---|--------------|---|
| | | | | | | | |
| | 2 | 2 s | 2 | | 1 | | 1 |
| | 4 | 4 s | 4 | | 2 | | 2 |
| | 6 | 6 s | 6 | | 3 | | 3 |
| | 8 | 8 s | 8 | | 4 | | 4 |
| | 10 | 10 s | 10 | | 5 | | 5 |
| | 12 | 12 s | 12 | | 6 | | 6 |
| | 14 | 14 s | 14 | | 7 | | 7 |

Start sowing from the left side of the TYPE B field

| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valves | | Right valves | |
|--------------------------|---------------------------|-------|----------------------|-------------|---|--------------|---|
| | | | | | | | |
| | 2 | 2 L | 2 | | | 2 | 1 |
| | 4 | 4 L | 4 | 3 | 2 | | |
| | 6 | 6 L | 6 | | | 4 | 3 |
| | 8 | 8 L | 8 | 5 | 4 | | |
| | 10 | 10 L | 10 | | | 6 | 5 |
| | 12 | 12 L | 12 | 7 | 6 | | |
| | 14 | 14 L | 14 | | | 8 | 7 |

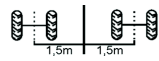


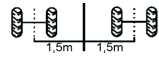
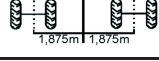



Start sowing from the right side of the TYPE B field

| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valves | | Right valves | |
|--------------------------|---------------------------|-------|----------------------|-------------|---|--------------|---|
| | 2 | 2 P | 2 | 2 | 1 | | |
| | 4 | 4 P | 4 | | | 3 | 2 |
| | 6 | 6 P | 6 | 4 | 3 | | |
| | 8 | 8 P | 8 | | | 5 | 4 |
| | 10 | 10 P | 10 | 6 | 5 | | |
| | 12 | 12 P | 12 | | | 7 | 6 |
| | 14 | 14 P | 14 | 8 | 7 | | |






Example: Creating a tramline on one side of the machine on which are both valves

- The example shows an individual rhythm
- Rail lines are created in two runs (sprayer 24 m, seeder 6 m)

Start of sowing from the left side of the field, individual rhythm TYPE C/E

| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valves | | Right valves | |
|--|---------------------------|-------|----------------------|-------------|---|--------------|---|
|    | 2 | 999 | 2 | | | | 1 |
|     | 4 | 999 | 4 | | 2 | | |
|  | 6 | 999 | 6 | | | | 3 |

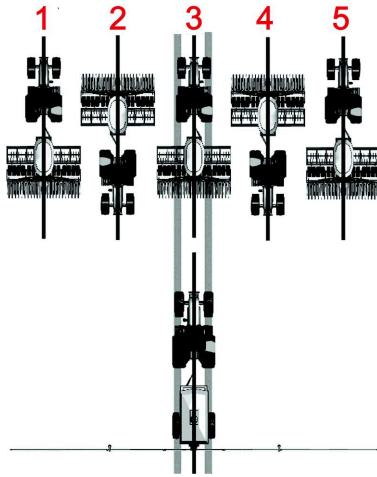
Start of sowing from the right side of the field, individual rhythm TYPE C/E

| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valves | | Right valves | |
|--|---------------------------|-------|----------------------|-------------|---|--------------|---|
|    | 2 | 999 | 2 | | 1 | | |
|     | 4 | 999 | 4 | | | | 2 |
|  | 6 | 999 | 6 | | 3 | | |

15.2.2 Odd rhythms of tramlines

- Odd tramline rhythms are always created in one run. Odd tramline can only be created if the valves are on both sides of the machine.

Example: Creating a tramline one in one run



- The example shows rhythm number 5
- The tramlines are created in the third run (sprayer 15m, seeder 3m)

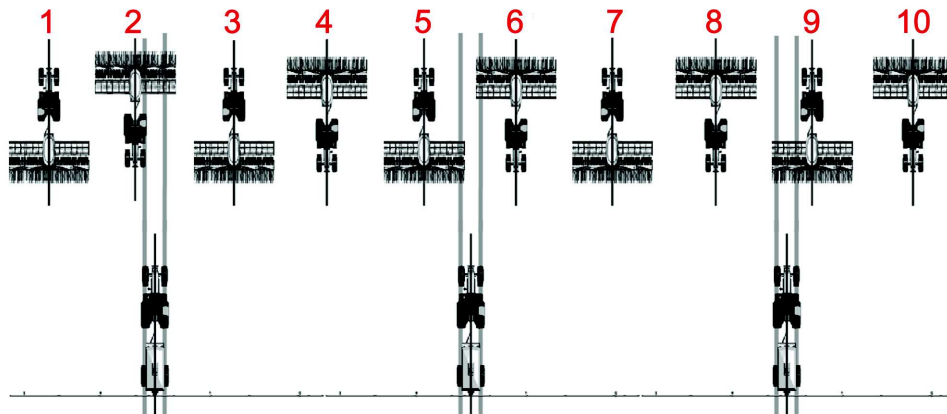
Creating a tramline in one run TYPE A

| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valves | | Right valves | |
|--------------------------|---------------------------|-------|----------------------|-------------|---|--------------|---|
| | 3 | 3 | 3 | | 2 | | 2 |
| | 5 | 5 | 5 | | 3 | | 3 |
| | 7 | 7 | 7 | | 4 | | 4 |
| | 9 | 9 | 9 | | 5 | | 5 |
| | 11 | 11 | 11 | | 6 | | 6 |

15.2.3 Special tramline rhythms

- Special rhythms are always created during four runs, they can only be created if the tramline valves are arranged on both sides of the machine.
- One tramline valve is on one side and two valves are on the other side of the machine.

Example: Creating a tramline with a special rhythm.




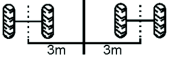



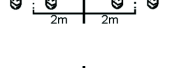
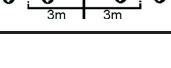
- The example shows rhythm number 20
- Rail lines are created during runs 2, 5, 6 and 9 (sprayer 20 m, seeder 6 m)

Start of sowing from the left side of the TYPE C/D/E field

| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valve | | Right valve | |
|--------------------------|---------------------------|-------|----------------------|------------|---|-------------|---|
| | | | | | | | |
| | 1,33 | 999 | 4 | 3 | 2 | 1 | 4 |
| | 1,5 | 22 | 6 | 4 | 3 | 6 | 1 |
| | 2,5 | 16 | 10 | 7 | 4 | 9 | 2 |
| | 2,67 | 62 L | 8 | 5 | 4 | 7 | 2 |
| | 3,33 | 20 | 10 | 9 | 2 | 6 | 5 |

| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valve | | Right valve | |
|--------------------------|---------------------------|-------|----------------------|------------|----|-------------|----|
| | 3,5 | 28 | 14 | 13 | 2 | 9 | 6 |
| | 4,5 | 18 | 18 | 16 | 3 | 12 | 7 |
| | 4,67 | 63 L | 14 | 3 | 12 | 7 | 8 |
| | 5,33 | 24 | 16 | 9 | 8 | 14 | 3 |
| | 5,5 | 65 L | 22 | 14 | 9 | 3 | 20 |
| | 6,67 | 64 L | 20 | 10 | 11 | 4 | 17 |
| | 7,5 | 30 | 30 | 27 | 4 | 19 | 12 |
| | 9,33 | 999 | 28 | 14 | 15 | 5 | 24 |

Start of sowing from the right side of the field TYPE C/D/E

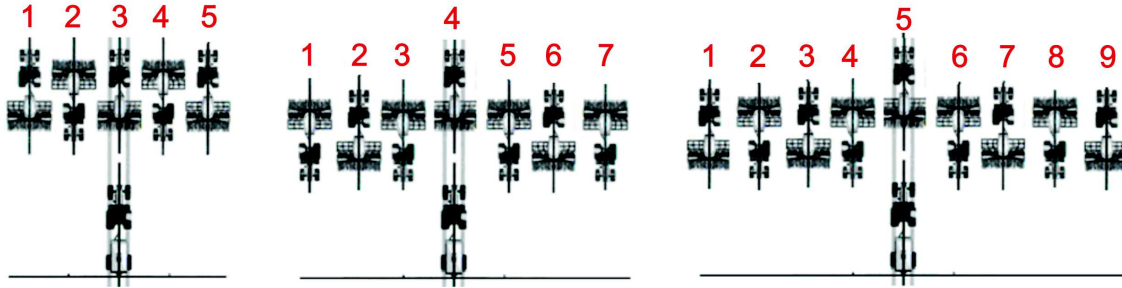
| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valve | | Right valve | |
|---|---------------------------|-------|----------------------|------------|---|-------------|---|
|  | 1,33 | 999 | 4 | 1 | 4 | 3 | 2 |
|   | 1,5 | 23 | 6 | 6 | 1 | 4 | 3 |
|     | 2,5 | 15 | 10 | 9 | 2 | 7 | 4 |

| Possible valve positions | Result of the calculation | RhNo. | The resulting rhythm | Left valves | | Right valves | |
|--------------------------|---------------------------|-------|----------------------|-------------|----|--------------|----|
| | | | | | | | |
| | 2,67 | 62 R | 8 | 7 | 2 | 5 | 4 |
| | 3,33 | 21 | 10 | 6 | 5 | 9 | 2 |
| | 3,5 | 29 | 14 | 9 | 6 | 13 | 2 |
| | 4,5 | 19 | 18 | 12 | 7 | 16 | 3 |
| | 4,67 | 63 R | 14 | 7 | 8 | 3 | 12 |
| | 5,33 | 25 | 16 | 14 | 3 | 9 | 8 |
| | 5,5 | 65 R | 22 | 3 | 20 | 14 | 9 |
| | 6,67 | 64 R | 20 | 4 | 17 | 10 | 11 |
| | 7,5 | 31 | 30 | 19 | 12 | 27 | 4 |
| | 9,33 | 999 | 28 | 5 | 24 | 14 | 15 |

15.3 The most frequently used tramline settings

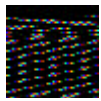
The specific tramline setting is done in the tramline setting screen itself. For a better orientation and understanding of the setting of the tramlines, we present graphic and tabular processing here. The system for determining the rhythm of the tramlines follows from the graphic representation and the table

| | | |
|--|--|--|
| Seeder machine grip 3 m Sprayer grip 15 m | Seeder machine grip 6 m Sprayer grip 42 m | Seeder machine grip 4 m Sprayer grip 36 m |
|--|--|--|

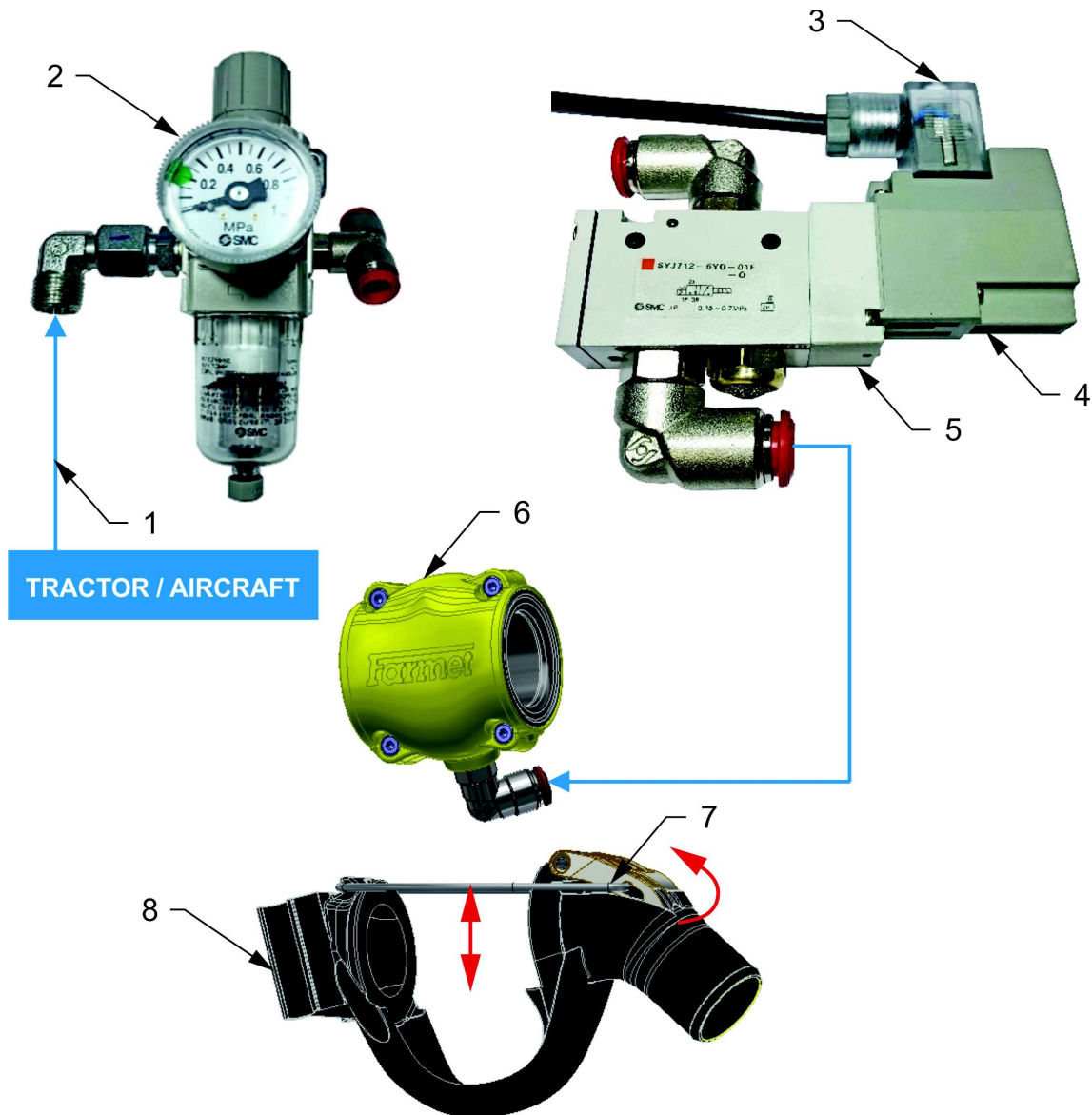


| Grip of the machine (m) | Grip of the sprayer (m) | Program (Number of line) | Number of rides per machine width (length) | Left | Right |
|-------------------------|-------------------------|--------------------------|--|------|-------|
| 3 | 15 | 5 | 5 | 3 | 3 |
| 3 | 21 | 7 | 7 | 4 | 4 |
| 3 | 27 | 9 | 9 | 5 | 5 |
| 4 | 20 | 5 | 5 | 3 | 3 |
| 4 | 28 | 7 | 7 | 4 | 4 |
| 4 | 36 | 9 | 9 | 5 | 5 |
| 6 | 18 | 3 | 3 | 2 | 2 |
| 6 | 30 | 5 | 5 | 3 | 3 |
| 6 | 42 | 7 | 7 | 4 | 4 |
| 8 | 24 | 3 | 3 | 2 | 2 |
| 8 | 40 | 5 | 5 | 3 | 3 |

15.4 Rail line valves



- The tramline valves are closed with compressed air. It is necessary to have a red air hose connected to the compressed air connection from the tractor.
- For valves, it is important that no pressure escapes anywhere in the entire system.
- The pressure reducing valve must be set to 0,2 MPa.
- Check the valve drip tray.
- When the valve is running, the red signal light on the switchboard must always be on.



| | | | |
|---|--|---|----------------------------|
| 1 | Compressed air supply from the tractor | 5 | Air distributor |
| 2 | Air pressure reducing valve | 6 | Air valve |
| 3 | Connector with red signal light | 7 | Secure locking lever valve |
| 4 | Switchboard solenoid | 8 | Body of air valve |

15.5 Air pressure reducing valve of the tramlines

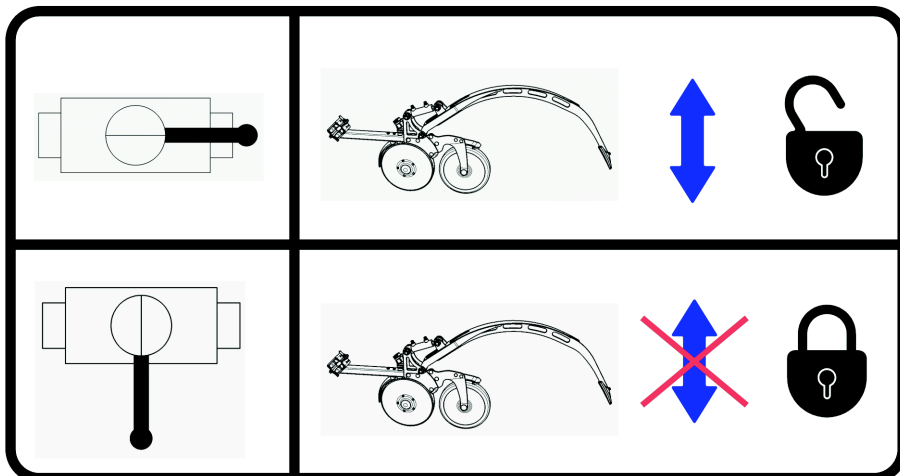
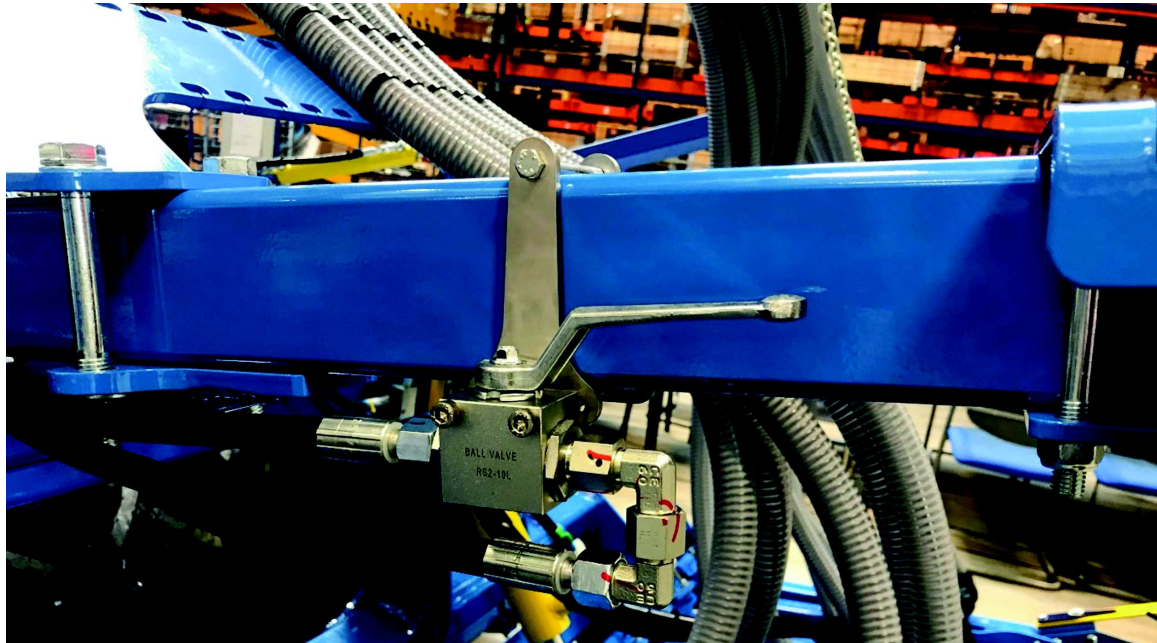
- The air pressure reducing valve is located on the seed drill head holder.
 1. Slide out (upwards) the valve adjustment segment.
 2. Tighten to add pressure.
 3. Release to reduce pressure.
 4. After setting the required pressure of **0,2 MPA**, slide in the adjusting segment (downwards).



THE PRESSURE MUST ALWAYS BE SET TO 0,2 MPA.

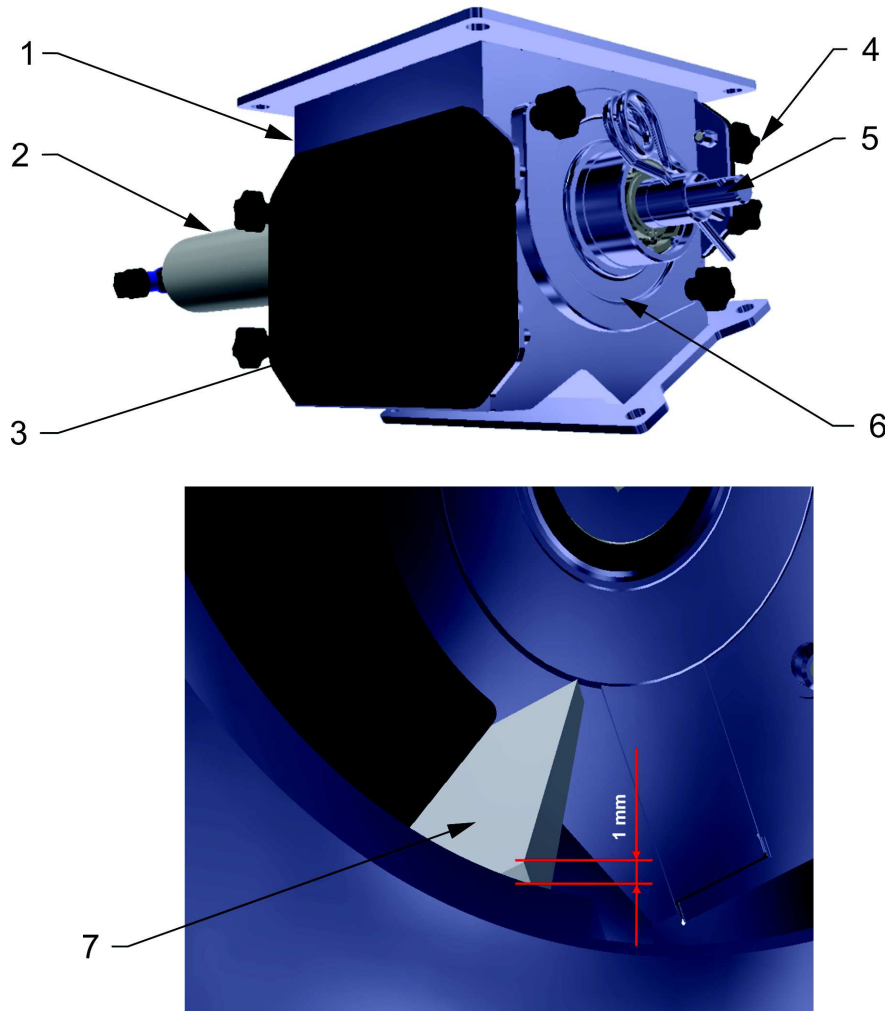
15.6 Tramline markers

- The tramline markers are automatically controlled together with the tramline valves.
- The tramline markers can be deactivated using the ball valve on the rear target holder.

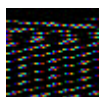


16 FARMET DISPENSER

- Dispenser with roller change system.



| | | | |
|---|------------------------------------|---|---------------------------------|
| 1 | Body of Farmet dispenser | 5 | Dispenser shaft |
| 2 | Drive motor | 6 | Side cover with roller mounting |
| 3 | Dispenser front with bottom trowel | 7 | Lower roller trowel |
| 4 | Dispenser front with top trowel | | |



It is necessary to check both trowels of the dispenser rollers every day before work. Any sign of deformation and loss of trowel material can lead to inaccurate dose requirements. The trowel can be rotated and used from the other side. In case of damage to both sides, we recommend purchasing a new part.

The trowel must extend 1-2mm beyond the edge of the circular opening of the dispenser.



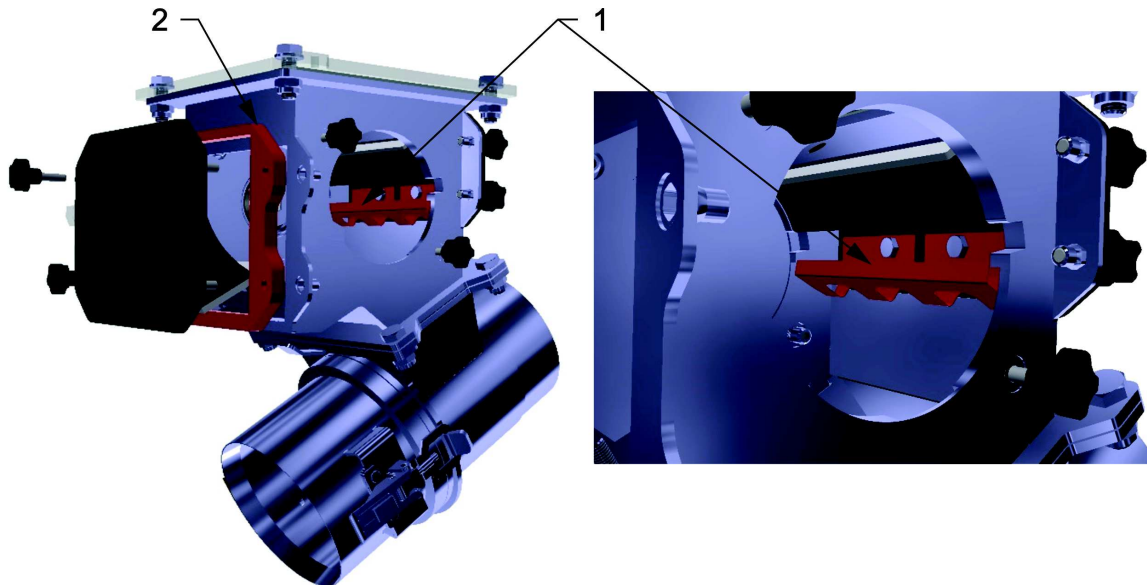
Before each use while standing, it is necessary to check the cleanliness of the roller and the dispenser. The roller must rotate freely in the metering unit. If dispenser gets stuck, there is a risk of breaking the fuse of the dispenser motor.

16.1 Dispenser function test

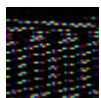
1. After installing a new roller, the function, centering and smooth running must be checked.
2. To start the roller, use the metering fill function or the sowing test.
3. The drive motor must run evenly "smoothly".
4. Check clutch centering. If running unevenly, the dosing is inaccurate and the motor can be overloaded.
5. At the point where the roller cuts, repair them, they must be reground or returned.
6. Loosen the screws on the side covers for the drive motor and roller bearing, and realign the side covers to prevent stress.
7. If the drive shaft is bent, it must be aligned or replaced.
8. If foreign bodies are stuck between the roller and the metering housing, they must be removed.
9. If there is dust or mordant in the roller between the metering discs and the spacer roller, disassemble and clean the roller.

16.2 Rough seeds

- For sowing rough seeds (corn, beans, peas, etc.) it is necessary to adjust the metering unit.
- The deflector (1) prevents large seeds from getting stuck between the metering cover and the roller. Failure to install the deflector could damage the roller, metering unit, or motor.
- For very large grains, a large seed adapter (2) can be fitted. This makes it easier for large grains to enter the dispenser and prevents grain damage.
- If necessary, add talc or graphite powder to the seed. Some types of large seeds do not spread well and may not completely fill the roller holes.



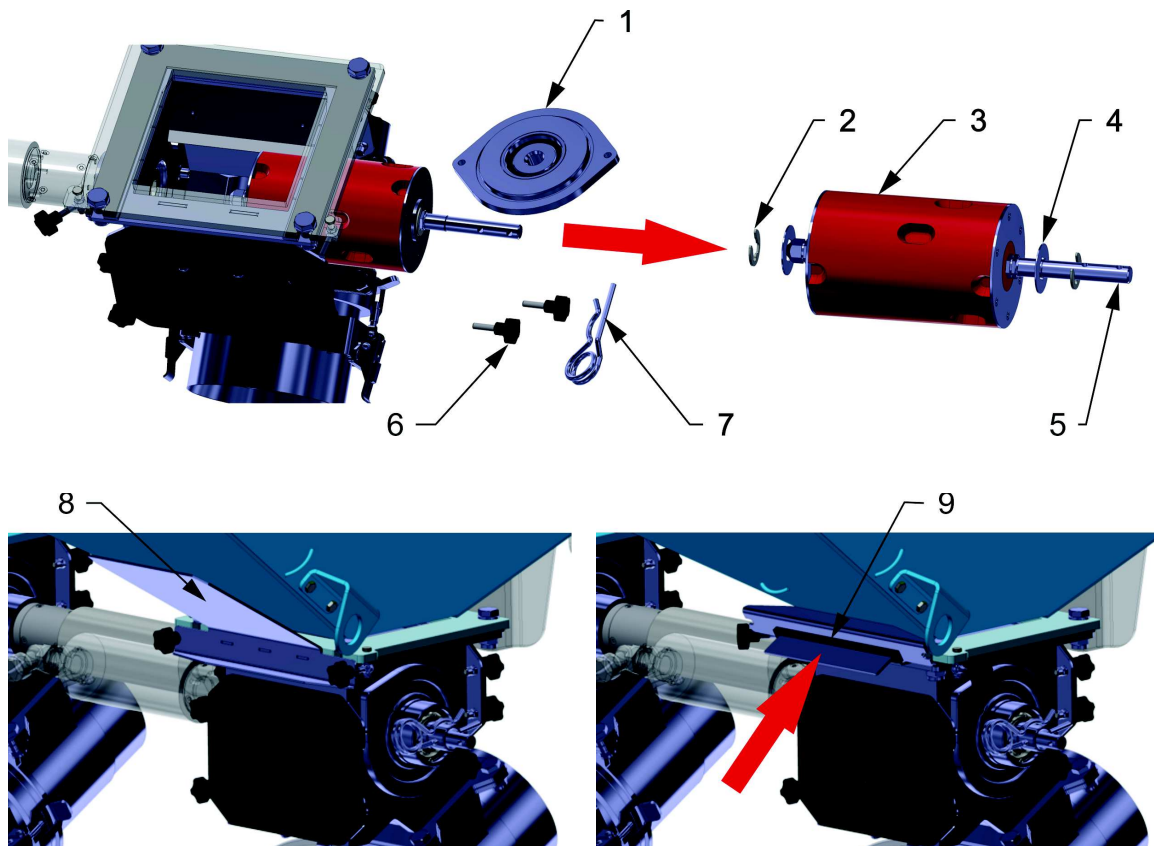
| | | | |
|---|---------------------------|---|-------------------------|
| 1 | Deflector for large seeds | 2 | Adapter for large seeds |
|---|---------------------------|---|-------------------------|



- When using the adapter for large seeds, it is necessary to use longer fixing screws L= 30 mm (accessories of the adapter frame).
- **Deflector set with an adapter for large seeds is part of the machine accessories.**

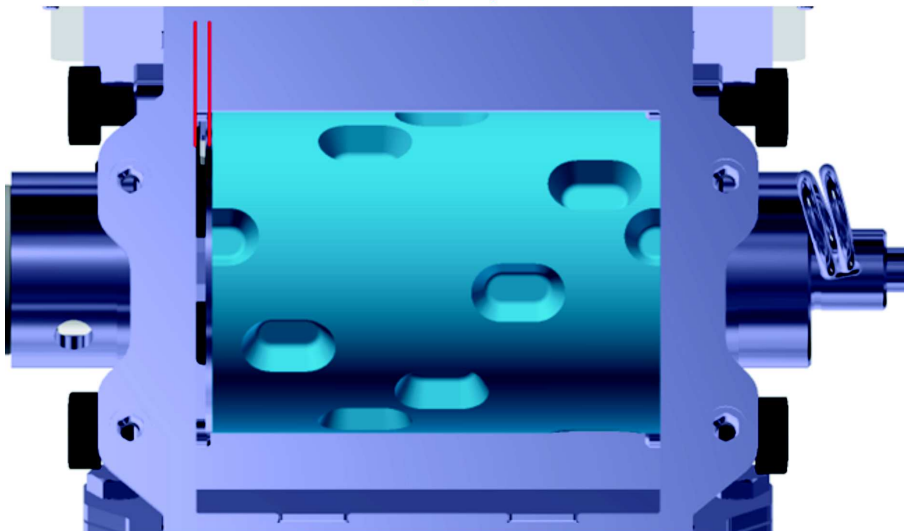
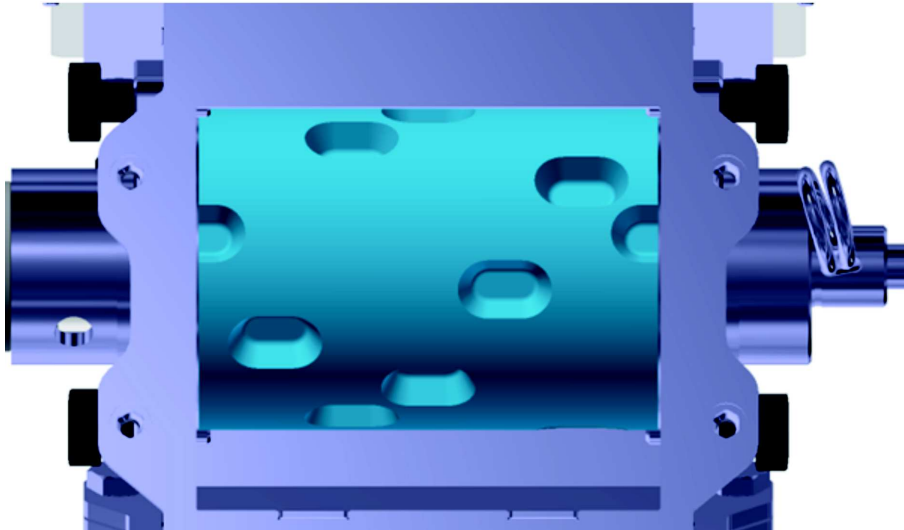
16.3 Roller replacement

- After selecting the roller according to the table, the roller must be mounted in the metering unit.
 1. With the full hopper, slide the slider over the dispenser (9).
 2. Remove the screws (6) on the side cover of the metering roller (1).
 3. Remove the roller (3) with drive shaft (5) and the side lid (1).
 4. Remove the cotter pin (7).
 5. Remove the secure ring (2) and cover washers (4).
 6. Pull out the shaft (5) roller and mount it on a new roller. Keep the washers (4) on both sides of the roller!
 7. Secure the roller (3) with secure rings (2).
 8. Insert the roller (3) into the dispenser.
 9. Replace the side cover (1) and tighten the screws (6).
 10. Secure with a cotter pin (7) (the first hole on the shaft).
 11. Pull out the slider (8) and secure him to be sure that dispenser seals.
- After each roller change, the trowel settings and the centered operation of the roller must be checked.



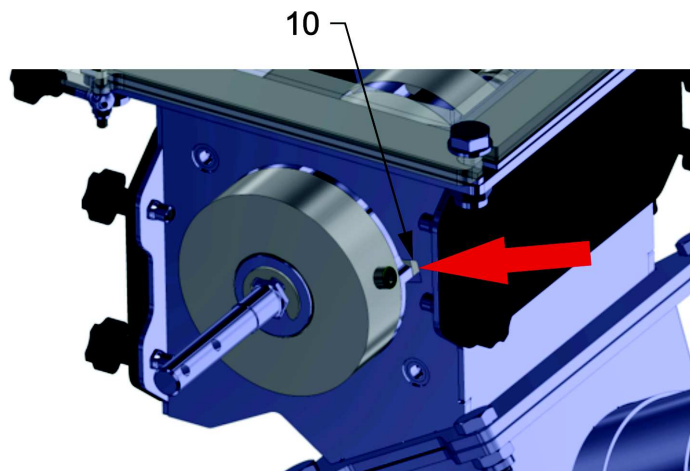
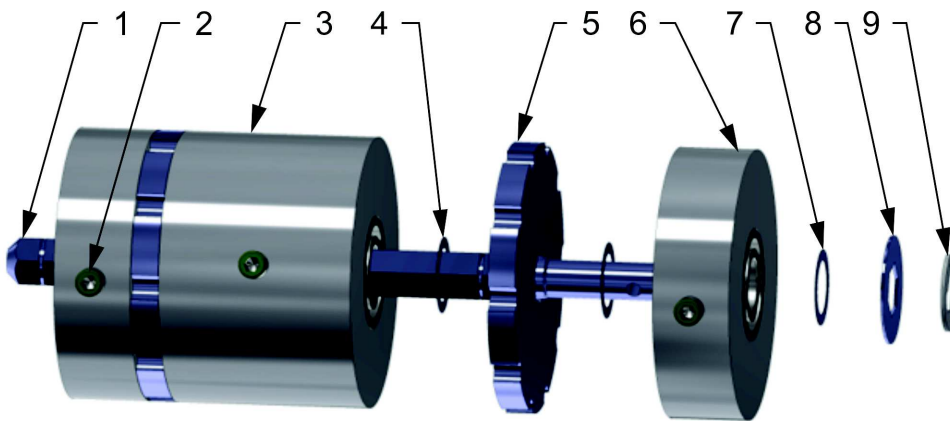
| | | | |
|---|---------------------------------|---|-----------------------------------|
| 1 | Side cover of the dosing roller | 6 | Screws |
| 2 | Secure ring | 7 | Cotter pin |
| 3 | Dosing roller | 8 | Closing slider in open position |
| 4 | Cover pad | 9 | Closing slider in closed position |
| 5 | Dosing roller shaft | | |

The cover washers (4) must be arranged so that the roller in the middle of the dispenser frame after assembly. See picture below.



16.4 Rollers for fine seeds

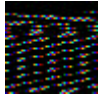
- The fine seed rollers consist of metering discs, spacer rollers and a drive shaft.
- The rollers can be mounted with one or two dosing discs.
- With the two dosing discs on the roller, the spread rate is doubled.
- The dosing disc is available with a dosing volume 3,5 cm³, 9 cm³.
- When sowing, only the metering discs in the roller rotate. The spacer cylinders are blocked stops on the housing.
- When assembling and disassembling the rollers, the screws (2) must be turned into the recess (10) in the dispenser body.



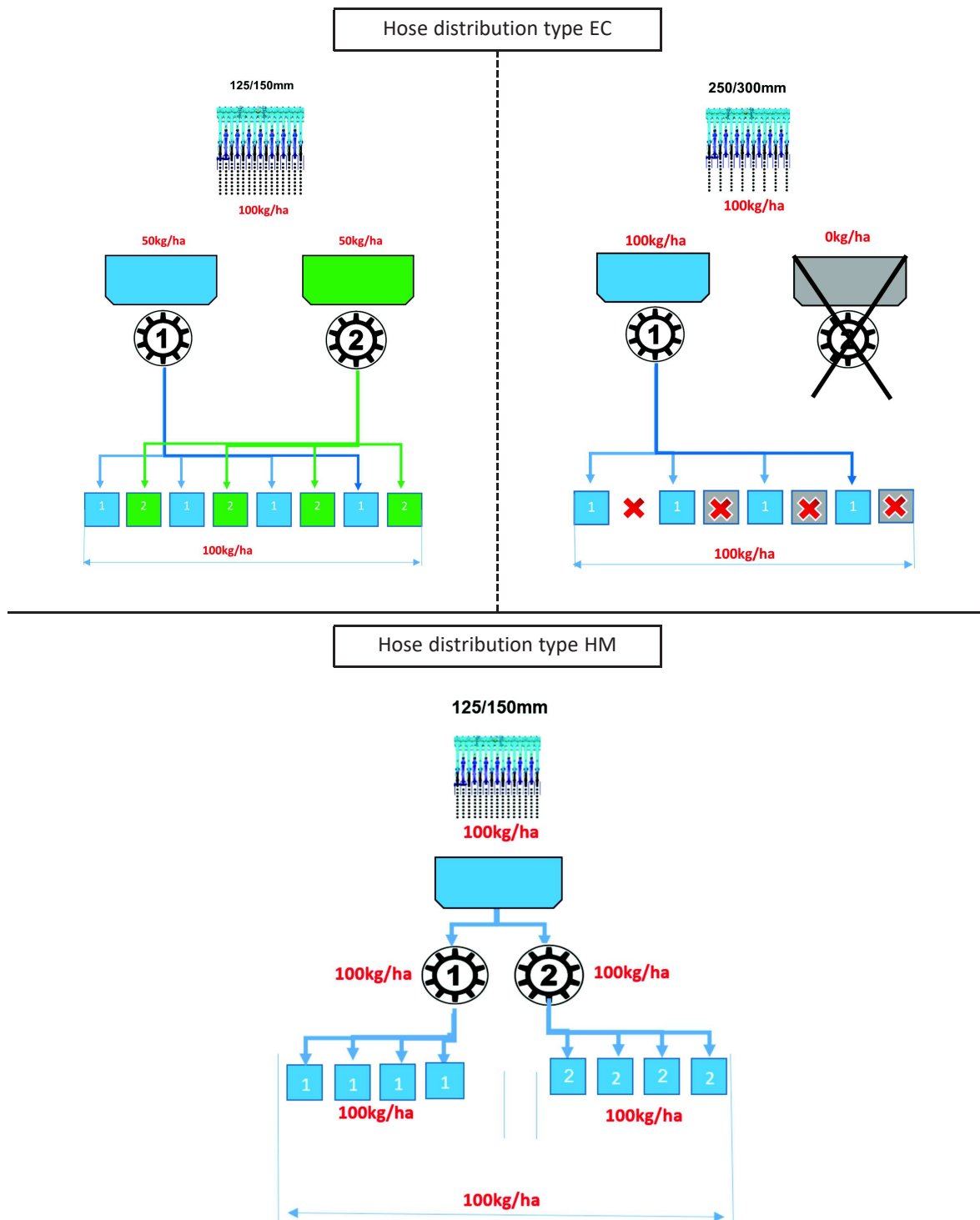
| | | | |
|---|-------------------------------------|----|--|
| 1 | Roller shaft | 6 | Roller bearing |
| 2 | Anti-rotation screw (locking screw) | 7 | Spacer washer 0,2 mm |
| 3 | Spacer washer with lock | 8 | Cover washer 1 mm |
| 4 | Spacer washer 0,1mm | 9 | Secure ring |
| 5 | Dosing disc | 10 | Hole for locking screw (dispenser selection) |

17 SOWING TEST

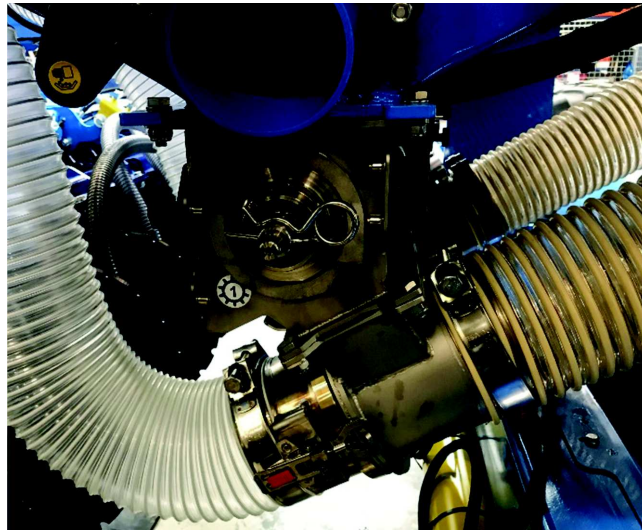
17.1 Hose distribution type



- Before the sowing test, it is necessary to know the type of hose distribution. *See chapter 1 for your machine configuration.







17.2 Sowing test



1. You will need the designated accessories to perform the calibration test.
 - Scale
 - Bucket
 - Sowing table
2. Select the correct roller for the roller metering unit based on the sowing table – Chapter 17.3
3. Check the cleanliness of the dispenser, roller and trowel condition.
 - **The trowel must reach on the roller – chapter 16**

Touch Basic

4.  • Turn on the application
5.  • Settings

6. Select the **Product** for which you want to calibrate.

- Type of hose distribution EC setting up [MOTOR 1 / 2 / 3](#)
- Type hose distribution HM setting up [SEED / FERTILISER](#)



7.  • Calibration

8. Select **Dispenser**, which you want calibrate [1 / 2](#)



- Choices of hose distribution type HM.

9. **Mode** – method of sowing test

- **Manually** (while holding the calibration button, the roller rotates).
- **Area**
- **Time**(pre set roller rotation time)
- **Revolutions**



10. **Working speed** – expected speed at working progress.

Example: 10 km/h



11. **Required value** – sowing dose

Example:

One dispenser: Total dispenser requirement 200 kg/ha, set 200 kg/ha.

Split-up EC: Requirement 200 kg/ha, set to each dispenser 100 kg/ha.

Split-up HM: Requirement 200 kg/ha, set to each dispenser 200 kg/ha.

12. **Calibration factor - from the table of calibration factors** – Chapter 17.3

Example: 150 g/rev.

Calibration factor – number of grams per revolution of the roller.

The calibration factor from the table is for guidance only. After the sowing test, the calibration factor is automatically recalculated.

13. Hang the calibration bucket.

14. Open the slider

15.  • Fill the roller.

16. Pay attention to the selected units on the scaling device.

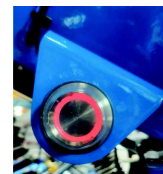
17. Empty the bucket, then hang it on the scale and use the TARE function.

18. Hang the calibration bucket on the dispenser.

19.  • Activate calibration button.

20. Hold down the calibration button. There must be a large amount of seed in the bucket for accurate calibration.

Example: Wheat 4 kg, Rape 0,5 kg



21. After releasing the calibration button, weight the amount of seed in the calibration bucket.



22. Enter the weight into the terminal. For this entry use a window with the name **Acquired value**.

KALIB. ZKOUSKA
3. Vysledek

Ziskana hodnota
 kg

Uycitaa hodnota
0.439 kg

Odchylka
0.0 %

Potvrdit
 Zrusit

Rychlost
min. 1.2 max. 15.4 km/h

Rewrite the value

23. Check that you are comfortable with minimum and maximum **speed**.
- If it does **NOT COMPLY**, replace the roller and repeat the test.
 - Minimum speed is too high= select a smaller roller (**ideal speed is from 1,5km/h**)
 - Maximum speed is too low= select a larger roller.
 - **Deviation** – For a roller dispenser should not be greater than 1 %, for auger metering unit 5 %.

- If the deviation is too large, confirm the calibration and repeat it again from point 17

24. If the range and deviation match, confirm the calibration.

25. Repeat the same calibration procedure for the other dispenser. **Working speed range of electric motors is 15-100% (you will find this value on the work screen).**

17.3 Sowing tables for FARMET dispenser

| Roller | Machine grip | Numbers of dispensers | 3 m | | 4 m | | 6 m | | 8 m | 9 m | Crop | |
|--------|--------------|-----------------------|-----------|-----|------|-----|------|-----|-----|-----|------|---|
| | | | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | | |
| V3,5 | | 5-15 km/h | kg/ha min | 1,0 | 2,0 | 0,8 | 1,5 | 0,6 | 1,0 | 0,8 | 0,6 | Rape, mustard, grass etc. |
| | | | kg/ha max | 3,6 | 7,2 | 2,7 | 5,4 | 1,8 | 3,6 | 2,7 | 2,4 | |
| V7 | | 5-15 km/h | kg/ha min | 2,0 | 4,0 | 1,5 | 3,0 | 1,0 | 2,0 | 1,5 | 1,3 | Rape, mustard, grass etc. |
| | | | kg/ha max | 7,2 | 14,4 | 5,4 | 10,8 | 3,6 | 7,2 | 5,4 | 4,8 | |
| V18 | | 5-15 km/h | kg/ha min | 5,5 | 11 | 4 | 8 | 3 | 5,5 | 4 | 3,5 | Mustard, grass etc. |
| | | | kg/ha max | 18 | 36 | 12 | 28 | 9 | 18 | 14 | 12,4 | |
| V20 | | 5-15 km/h | kg/ha min | 6 | 12 | 4,5 | 9 | 3 | 6 | 4,5 | 4 | Corn |
| | | | kg/ha max | 34 | 68 | 25 | 50 | 17 | 34 | 25 | 22 | |
| V40 | | 5-15 km/h | kg/ha min | 11 | 22 | 8,2 | 16,4 | 5,5 | 11 | 8,2 | 7,3 | Grain, corn, spelled without chaff |
| | | | kg/ha max | 60 | 120 | 45 | 90 | 30 | 60 | 45 | 40 | |
| V100 | | 5-15 km/h | kg/ha min | 60 | 120 | 45 | 90 | 30 | 60 | 45 | 40 | Grain, corn, spelled without chaff |
| | | | kg/ha max | 140 | 280 | 95 | 190 | 70 | 140 | 97 | 92 | |
| V130 | | 5-15 km/h | kg/ha min | 98 | 196 | 74 | 148 | 49 | 98 | 33 | 66 | Grain, corn, spelled without chaff |
| | | | kg/ha max | 180 | 360 | 135 | 270 | 90 | 180 | 135 | 120 | |
| V250 | | 5-15 km/h | kg/ha min | 180 | 360 | 135 | 270 | 90 | 180 | 135 | 120 | Grain, spelled without chaff, sunflower |
| | | | kg/ha max | 350 | 700 | 270 | 540 | 175 | 350 | 260 | 240 | |
| V260 | | 5-15 km/h | kg/ha min | 200 | 400 | 150 | 300 | 100 | 200 | 132 | 130 | Grain, corn, peas, broad, beans, soybeans, spelled with chaff, sunflower, solid fertilizers |
| | | | kg/ha max | 380 | 760 | 285 | 570 | 190 | 380 | 255 | 250 | |
| V500 | | 5-15 km/h | kg/ha min | | | 285 | | 190 | | 255 | 250 | Grain, corn, peas, broad, beans, soybeans, spelled with chaff, sunflower, solid fertilizers |
| | | | kg/ha max | | | 570 | | 380 | | 530 | 500 | |

| Roller | SPECIES | Cm ³ /rpm | WHEAT | BARLEY | OATS | PEAS | CORN | MUSTARD | RAPE | POPPY | LUCERNE | GRASS | PHACELIA |
|--------|---------|----------------------|-------------------|--------|------|------|------|---------|------|-------|---------|-------|----------|
| | | | g/cm ³ | | | | | | | | | | |
| | | | 0,77 | 0,68 | 0,5 | 0,81 | 0,79 | 0,6 | 0,65 | 0,4 | 0,8 | 0,36 | 0,22 |
| V3,5 | | 3,5 | | | | | | 2 | 2,7 | 1 | 3 | 1 | 1 |
| V7 | | 7 | | | | | | 4 | 5,4 | 3 | 6 | 3 | 2 |
| V18 | | 18 | | | | | | 10 | | | | 8 | 5 |
| V20 | | 20 | | | | | 24 | | | | | | |
| V40 | | 40 | 43 | 37 | 25 | 44 | 48 | | | | | | |
| V100 | | 100 | 108 | 92 | 64 | 110 | 120 | | | | | | |
| V130 | | 130 | 139 | 122 | 84 | 142 | 150 | | | | | | |
| V250 | | 250 | 270 | 230 | 160 | 275 | 300 | | | | | | |
| V260 | | 260 | 270 | 230 | 160 | 275 | 300 | | | | | | |
| V500 | | 500 | 540 | 460 | 320 | 580 | 600 | | | | | | |



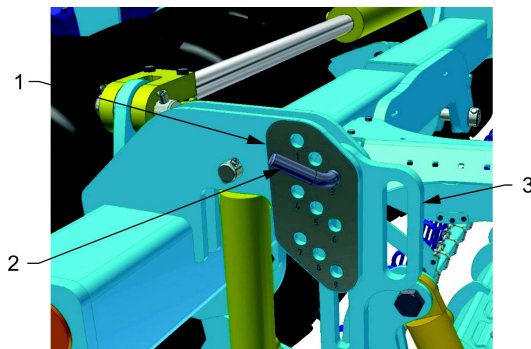
NOTE: The calibration factors in this table are for guidance only. After the calibration test, the calibration factor is automatically recalculated.

18 SETTINGS OF SEED SECTION

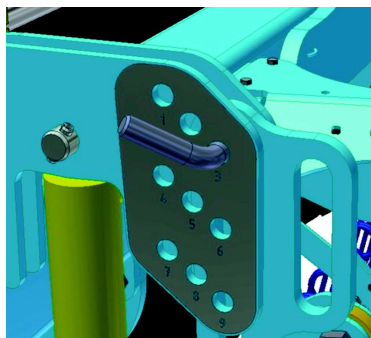
- For optimum seed placement must be observed the following parameters.
 - Required sowing depth
 - The amount of pressure

18.1 Sowing depth setting

- The sowing depth is set using the pin (2), which is adjusted in the holes of the setting link (1).
- Each hole corresponds to a certain sowing depth. This only applies when the machine is level.



| | |
|---|------------------------------------|
| 1 | Metal plate with scale from 1 to 9 |
| 2 | Depth adjustment pin |
| 3 | The pull of the backdrop |

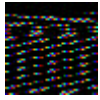


| | | | |
|---|-------------------|---|-------------------|
| 1 | Sowing depth 1 cm | 6 | Sowing depth 6 cm |
| 2 | Sowing depth 2 cm | 7 | Sowing depth 7 cm |
| 3 | Sowing depth 3 cm | 8 | Sowing depth 8 cm |
| 4 | Sowing depth 4 cm | 9 | Sowing depth 9 cm |
| 5 | Sowing depth 5 cm | | |



The values in the table are for guidance only, they may vary according to soil conditions.

18.1.1 Recommended depth

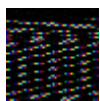


- The setting of the sowing depth and the coulter pressure interact.
- After each sowing depth change, drive a few meters and check the seed placement depth and the coulter pressure.

| Species | Recommended sowing depth | Recommended sowing rate |
|------------------|--------------------------|-------------------------|
| Spring wheat | 4–5 cm | 220 kg |
| Spring triticale | 4 cm | 200 kg |
| Spring barley | 3–5 cm | 200 kg |
| Oat | 3–5 cm | 200 kg |
| Corn | 5–8 cm | 20–70 kg |
| Buckwheat | 3–5 cm | 70 kg |
| Peas | 4–6 cm | 250–300 kg |
| Spring weasel | 4–6 cm | 120–180 kg |
| Broad bean | 6 cm | 180–250 kg |
| White lupine | 6–8 cm | 160–180 kg |
| Spring rape | 2–3 cm | 3–6 kg |
| White mustard | 2–3 cm | 8–10 kg |
| Poppy seeds | 1–2 cm | 1 kg |
| Sunflower | 4–6 cm | 4–25 kg |
| Meadow clover | 1–2 cm | 15–20 kg |
| Lucerne | 1–2 cm | 8–16 kg |

18.2 Sowing section pressure setting

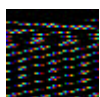
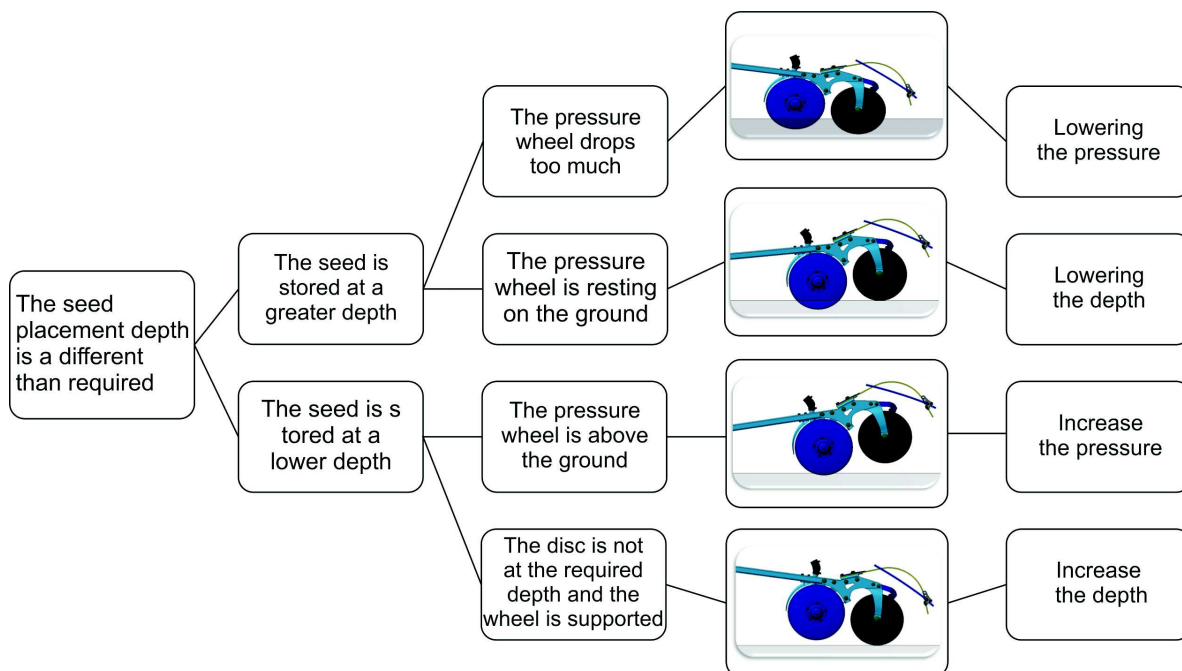
| DEPTH [cm] | PRESSURE [kg] | |
|------------|---------------------|--------------------|
| | LIGHT / SANDY SOILS | HEAVY / CLAY SOILS |
| 1 | 35 | 60 |
| 2 | 45 | 70 |
| 3 | 55 | 80 |
| 4 | 65 | 90 |
| 5 | 70 | 100 |
| 6 | 80 | 110 |
| 7 | 90 | 115 |
| 8 | 100 | 120 |



- These are indicative recommended values. The correct pressure for a given specific condition may be different and must be adjusted accordingly. In case of dry weather, we recommended increasing the pressure.




- Check the seed placement depth in the field after each change of coulter pressure or sowing depth.
 1. Lower the machine to the working position, drive a few meters.
 2. Check the required seed placement depth and seedbed compaction.





- If the machine is raised, the pressure is too high = lower the pressure.
- The pressure must always be set according to the soil conditions.
- If the pressure is too low, the sowing depth may be unevenly distributed.

18.2.1 Increase and lowering the pressure

Increase the pressure

1. Apply pressure to  a and leave it closed.
2. Use the wheel to gradually tighten the pressure reducing valve to increase the coultter pressure.
3. Again drive a few meters and check the seed placement depth.

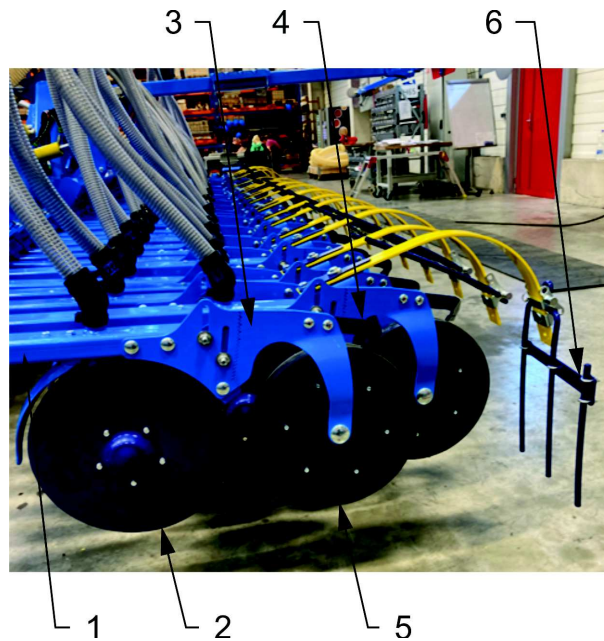
Lowering the pressure

1. For lowering the pressure, raise the seed section to the upper position with .
2. Releasing the pressure reducing valve reduces the pressure.
3. Lower the sowing section to the working position with .
4. Check the reduced pressure on the manometer.
5. Again drive a few meters and check the seed placement depth.



18.3 Seed coulters

Description of the seed coulters



| | | | |
|---|---------------------|---|------------------------|
| 1 | Seed coulters frame | 4 | Pressure wheel scraper |
| 2 | Coulter discs | 5 | Pressure wheel |
| 3 | Comb of the wheel | 6 | Harrow |

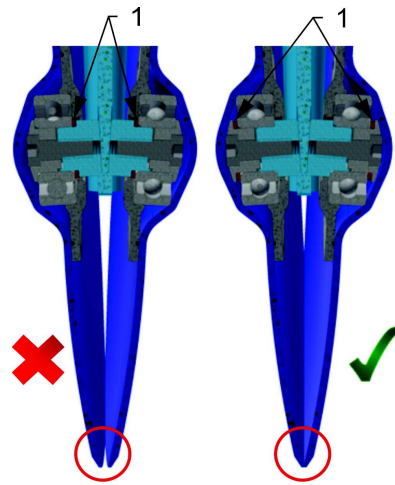
- The seed is sown with the coulters.
- The coulters discs (2) cut through the seedbed and expose the seed groove.
- The seed is stored between the discs (2).
- The pressure wheel (5) guides the seed coulters and closes the groove.
- The harrow (6) covers the sowing row with soil and levels the soil.
- The coulters are stored in maintenance-free rubber bearings.

Coulter discs

- The discs are located at the front, are V-shaped for each other for low tensile strength and the formation of a groove for seed placement.

Disk adjustment


- In case of wear the seed discs, it is necessary to adjust the distance between the discs by changing the location of the spacers.
- All 4 spacers (1) must always be used on each coulter. If all 4 spacers (1) are not used – **the coulter will be damaged**.
- The discs must be slightly pretensioned on the blade. However, it must be possible to turn them easily.
- When rotating one disc, the other must be rotated reliable.
- If the discs stop or lock due to incorrect preload, the seed will start to aggregate.



18.3.1 Disc and pressure wheel trowels

- The trowels remove dirt from the discs and pressure wheels.
- Regularly check the function and wear of the trowels.

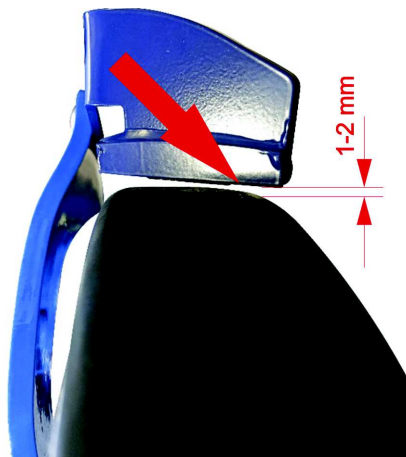
Disc trowels

- The trowel has a carbide tip the edges.
- Make sure that the entire trowel rests evenly on the surface of the disc.



Pressure wheel scraper

- The distance of the scraper from the wheel must be 1-2 mm.



18.3.2 Pressure wheel

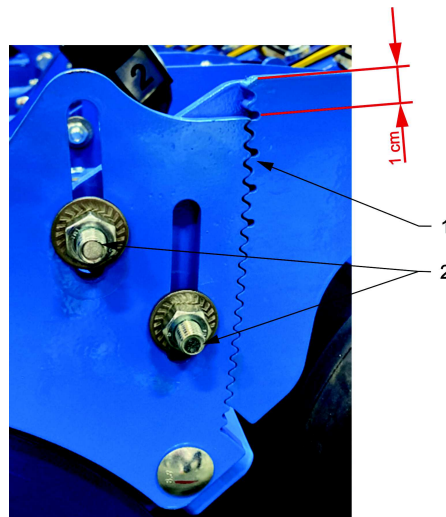
- The pressure wheels provide depth guidance when storing the seed, cover the seed with fine soil and press it against the seed.
- To sow all coulters to the same depth, it is necessary to have the wheels set in the same position.

18.3.3 Individual countersinking of the coulters

The individual countersinking of the coulters can be adjusted using a sliding comb.

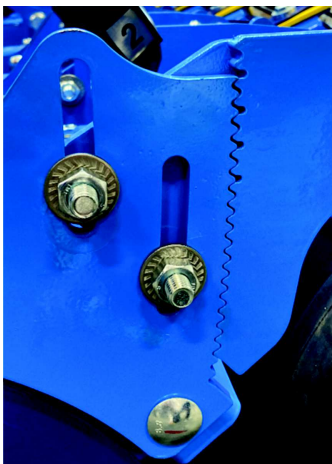
Method:

- Loosen nuts (2).
- Adjustment of the countersinking with the sliding comb (1).
- Tighten the nuts .

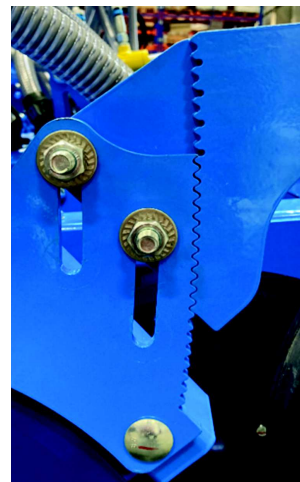


| | |
|---|--------------|
| 1 | Sliding comb |
| 2 | Nut |

Depth of sowing coulter by 1 cm.

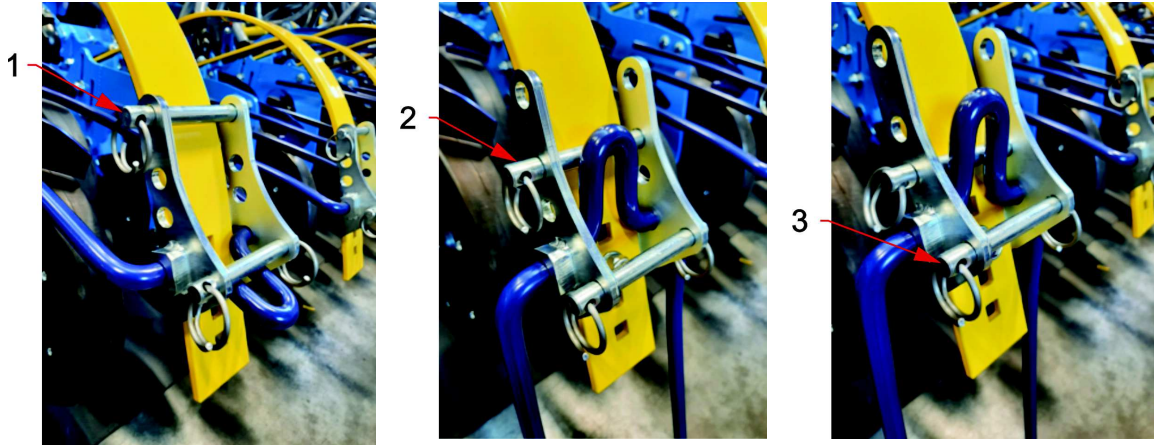


Depth of sowing coulter by 4 cm.



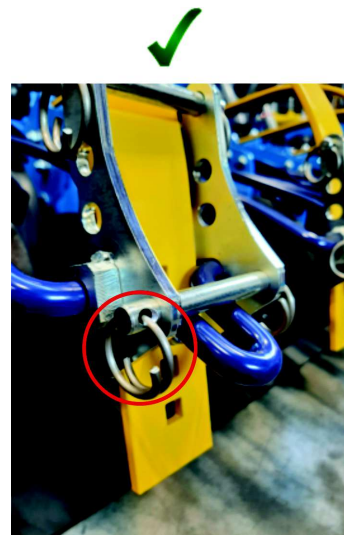
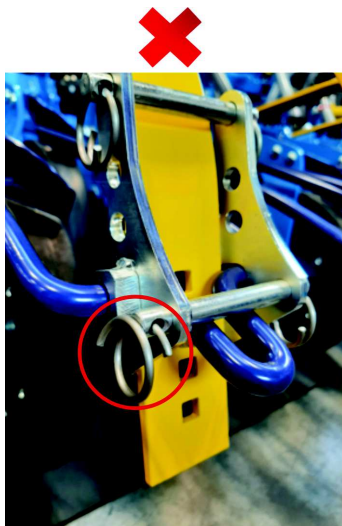
18.3.4 Harrows

- It is possible to change the aggressiveness of the harrows by adjusting the pin. With a large amount of crop residues, harrows can be discarded (1).



| | |
|---|---|
| 1 | Discarded harrow |
| 2 | The first degree of aggression of the harrow |
| 3 | The second degree of aggression of the harrow |

The cotter pin must always be fully secured.

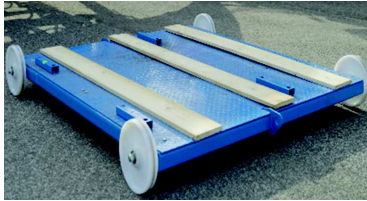


19 FRONT SECTION REPLACEMENT

To replace the front section, you need a cart, the appropriate tools a manipulator.

- Set of wrenches size: 13, 24, 30
- Socket wrenches with the same nut size as the wrenches
- Cordless screwdriver

If you have purchased a cart for the machine for easy section replacement, follow the points marked by *

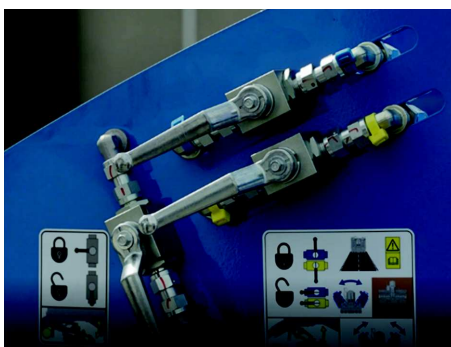


Working process:

1. Unfold the connected seed drill into the working position on a flat, ideally paved surface.

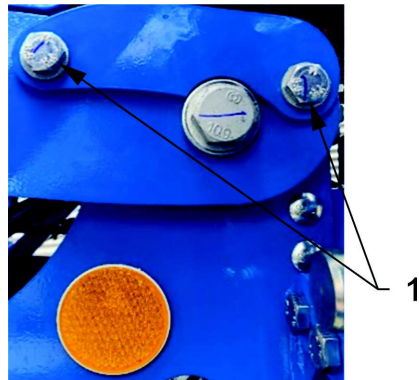


2. Open the front section ball valves - **yellow circuit**



3. Place the front section on the ground by operating the tractor hydraulics.
* Place the front section on the cart by operating the tractor hydraulics.

4. Remove the locking screws on the front section rods.

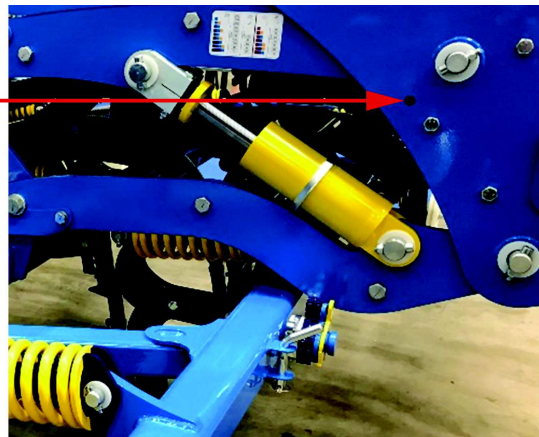
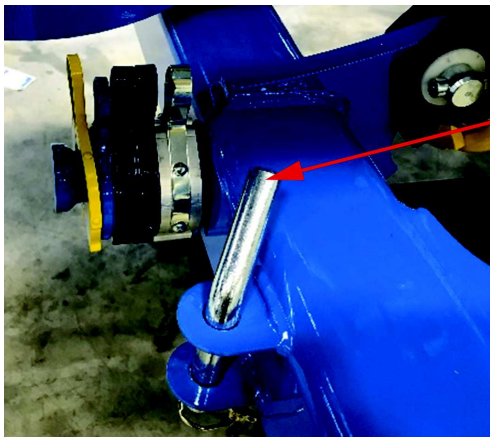


1 – Locking screws

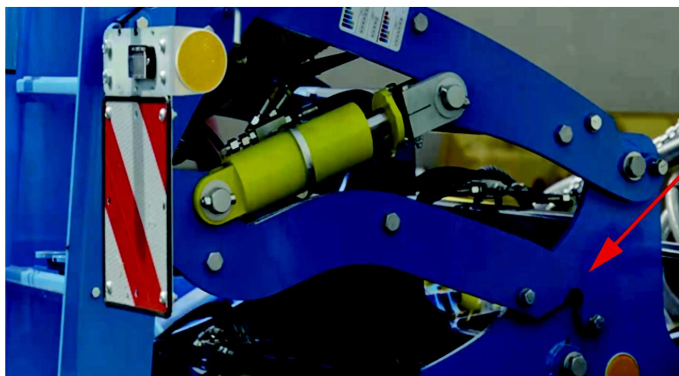
5. Remove the securing segments (4 pieces).



6. Secure the arm with the pin located on the front section – insert the pin into the hole so that the upper arm can rest on it.



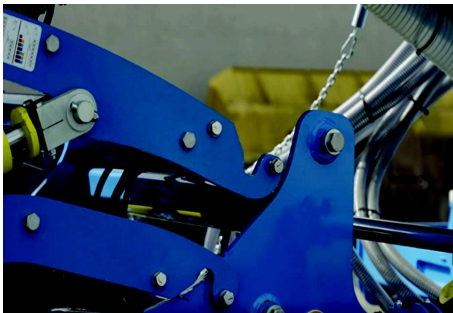
7. Raise the front section by operating the hydraulics from the tractor until the lower link is released.



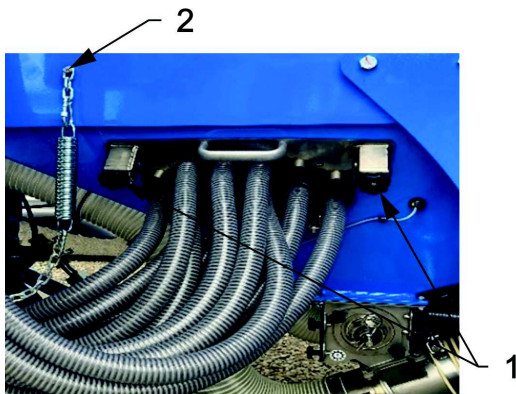
8. Secure the support leg in the working position so that the machine can be lowered.



9. Lower the entire machine by operating the tractor arms until the upper arm is released.

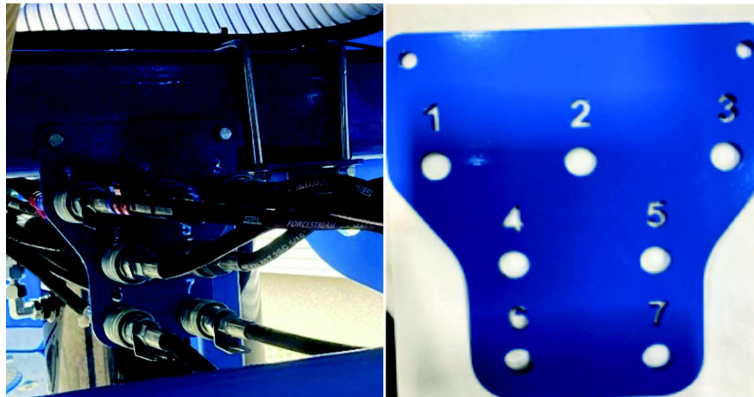


10. Disconnect the quick-release system of the fertilizer hoses and the hose tension chain.



- 1 – Lock nuts
2 – Chain

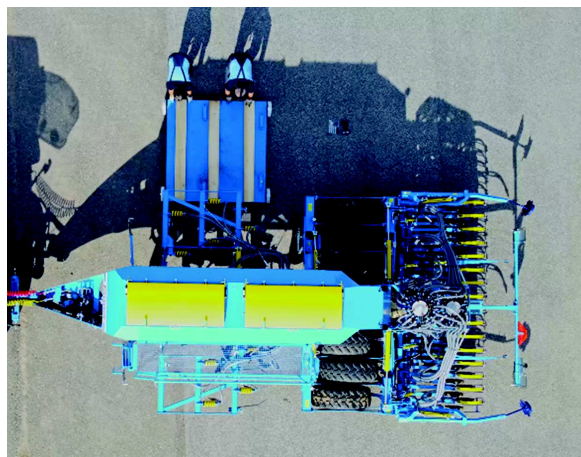
11. Disconnect the hydraulic hoses from the tractor and the bracket under the hopper (the hoses must be depressurized in order to disconnect them).



- 12.. Uncouple the machine from the tractor and drive the tractor.
* You leave the tractor connected.
13. Check that everything is disconnected from the front section and there is nothing to prevent the front section from being removed safely.
14. Use the manipulator to move the seeder past the front section.



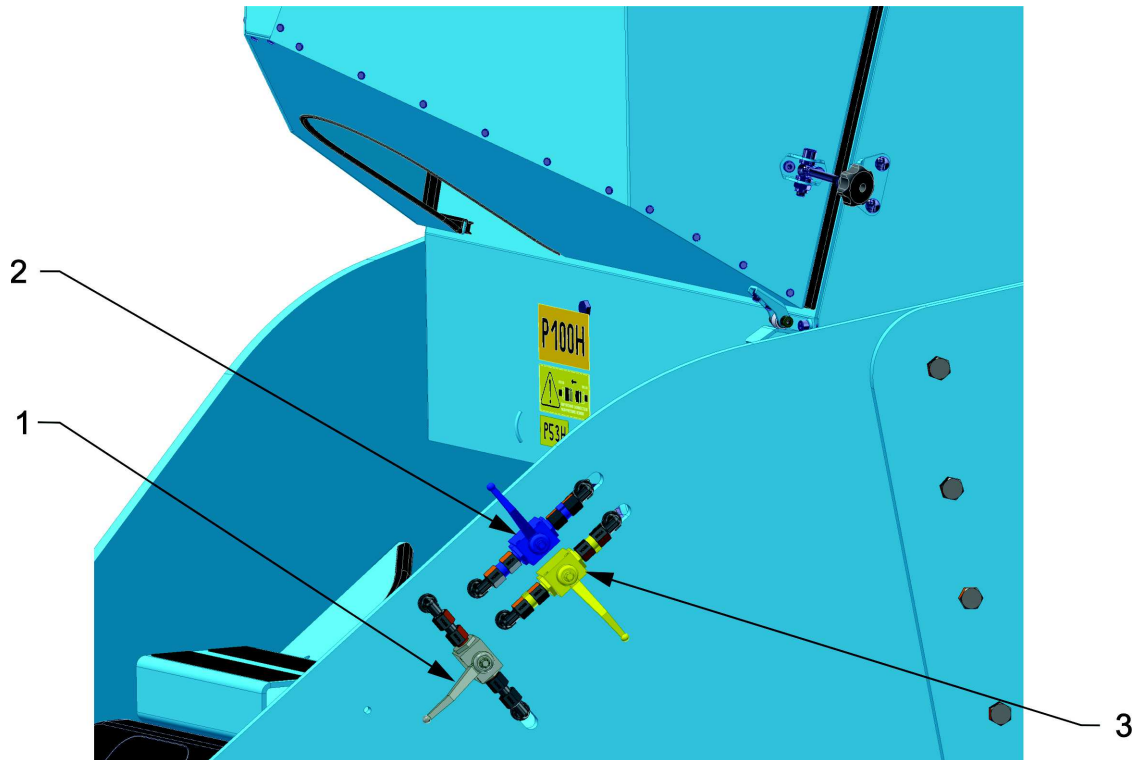
* With the front section on the cart, drive away from the seeder.



15. Remove the front section.
16. To engage the new section, repeat the procedure in reverse order.

20 FERTILIZING

- Fertilizer storage is possible in two ways:
 - Fertilization using the preparatory section (disc, chisel)
 - Storage of fertilizer together with seed (FERT S)
- Calibrate the fertilizer dose according to chapter **Sowing test (17.2)**
- The piston rod of the fertilization depth can be locked with a gray ball valve (1).

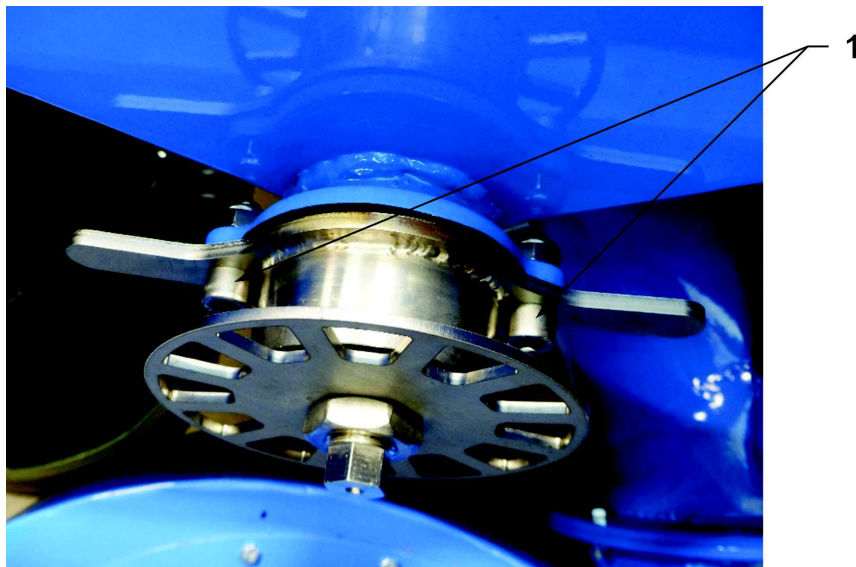


| | |
|---|---|
| 1 | Ball valve for disabling fertilization (gray) |
| 2 | Ball valve for closing the tilt (blue) |
| 3 | Ball valve for disabling the front section (yellow) |

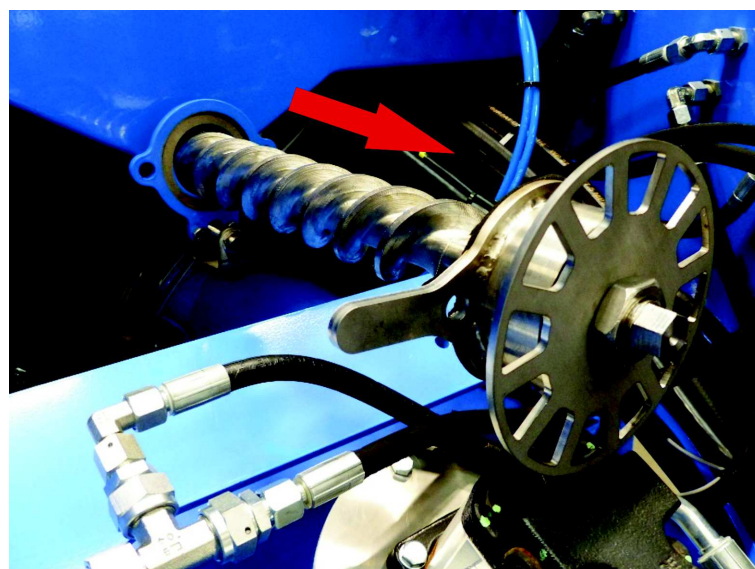
20.1 Auger metering unit of fertilization

- The auger metering unit must always rotate clockwise from the front of the machine.
- The hydraulic motor of the auger metering unit is located under the fertilizer hopper.
- For cleaning, the auger can be extended without disassembly the hydraulic motor.
- This cleaning is carried out before each shutdown of the machine or after the fertilizer application has ended.
- If maintenance is not done properly, the fertilizer inside the auger feeder may harden.

1. Loosen and remove the screws of the auger metering unit (1)

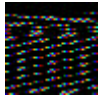


2. Slide out the auger metering unit



3. Clean the dispenser and the dispenser auger
4. Insert the auger and tighten the screws

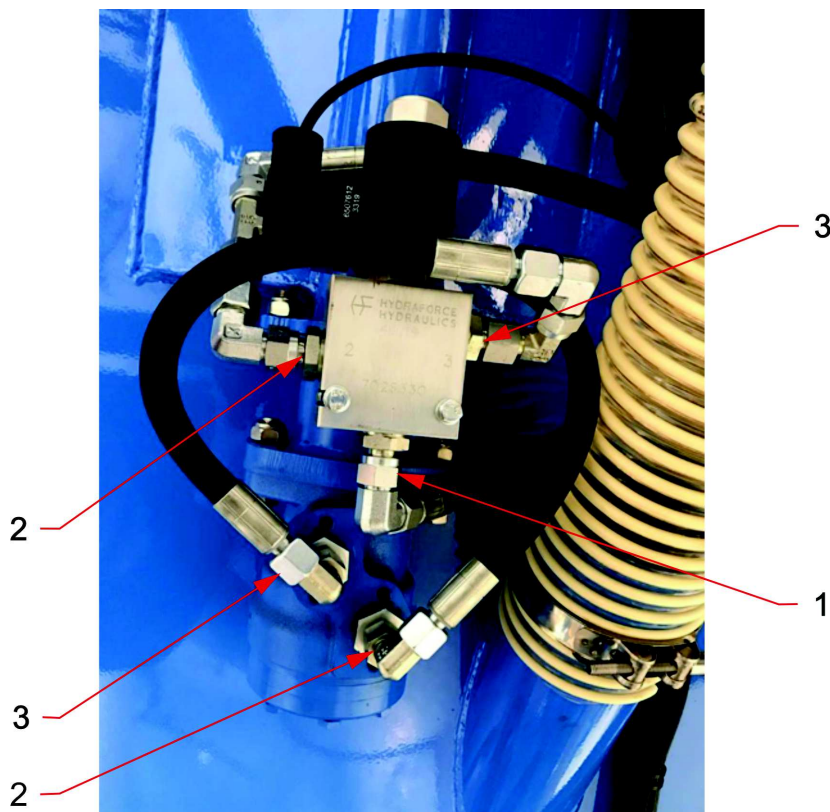
20.1.1 Hydraforce fertilizer engine valve



- Provides speed control of the screw feeder.
- To prevent the oil from overheating, it is important to have the oil flow to the fertilizer circuit set correctly.

Flow setting to the fertilization circuit:

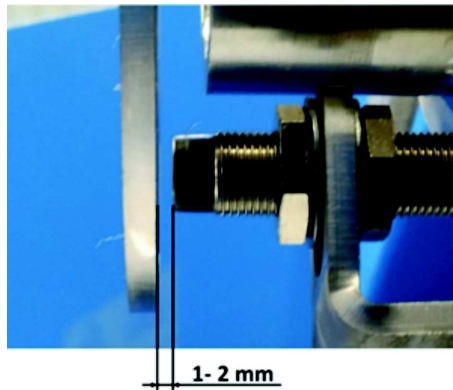
1. Increase the oil flow until the required dose is reached at maximum speed.
 2. Increase the flow value by a reserve 2 %.
- The flow is in the range of 10-20%, depending on the tractor pump.



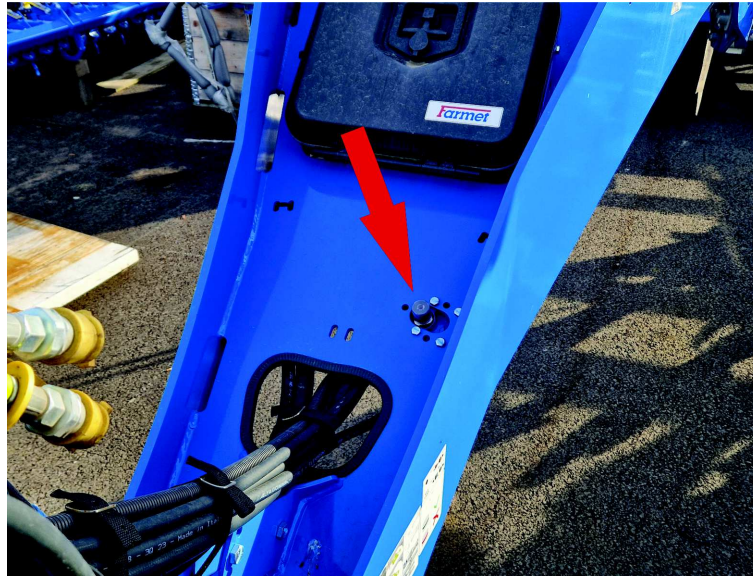
| | |
|---|---------------------|
| 1 | Input branch |
| 2 | Non-pressure return |
| 3 | Regulated branch |

20.1.2 Hydraulic dispenser speed sensor

- The sensor is located at the dosing sprocket on the front of the machine hopper.



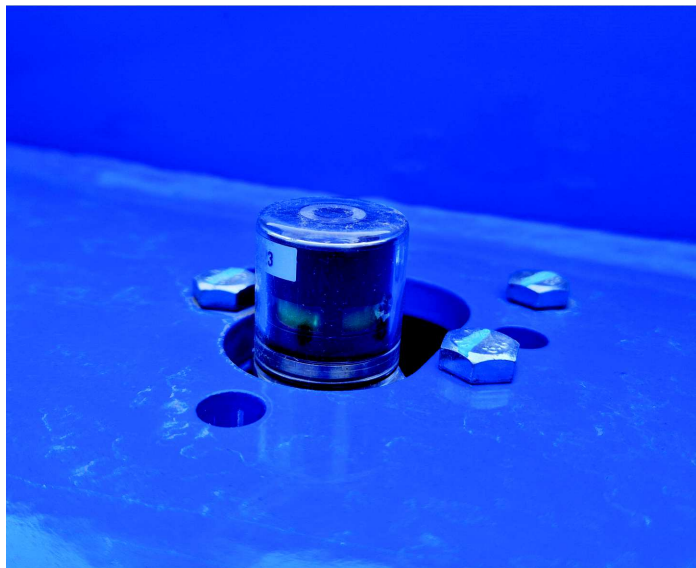
20.1.3 Oil filter for fertilizing hydraulic circuit



- The oil filter has a dirt indicator.
- If the indicator is red, the filter element must be replaced.

Filter cartridge replacement:

1. There is a hexagon on the bottom of the filter to remove the insert.
2. The filter insert is marked **m21229**.

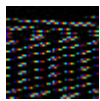
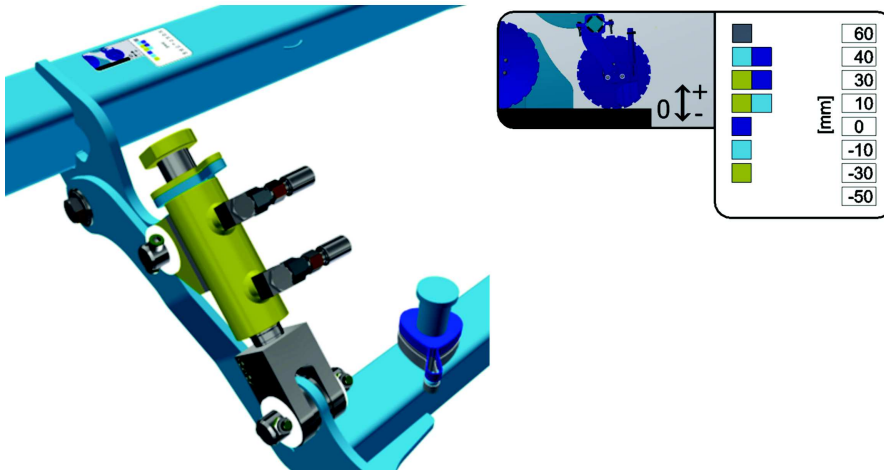


20.2 Roller dispenser

The roller fertilizer metering unit is used in the same way as for seed, see chapter 16.

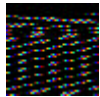
20.3 Disc fertilization

- The depth of the fertilizing discs is set by placing the clips on the piston rod, according to the table.



The depth setting of the fertilizer desc section depends on the depth of the front preparation section.

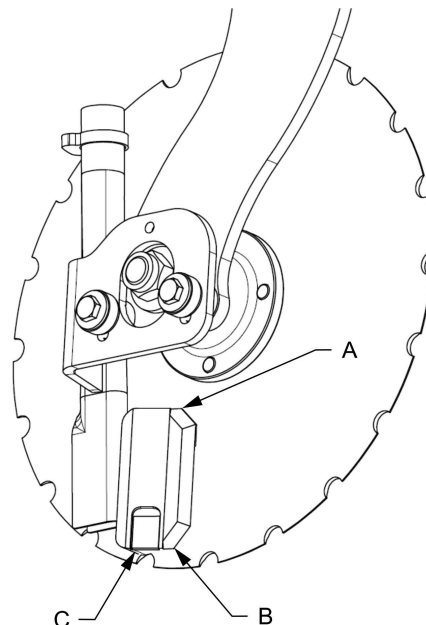
If the piston fertilizer is set to 0, the fertilizer depth is the same as the depth of the preparation section.



Adjusting the fertiliser unit:
Gaps between blade and disc:
A > 0 mm
B = 0 mm
C > 0 mm

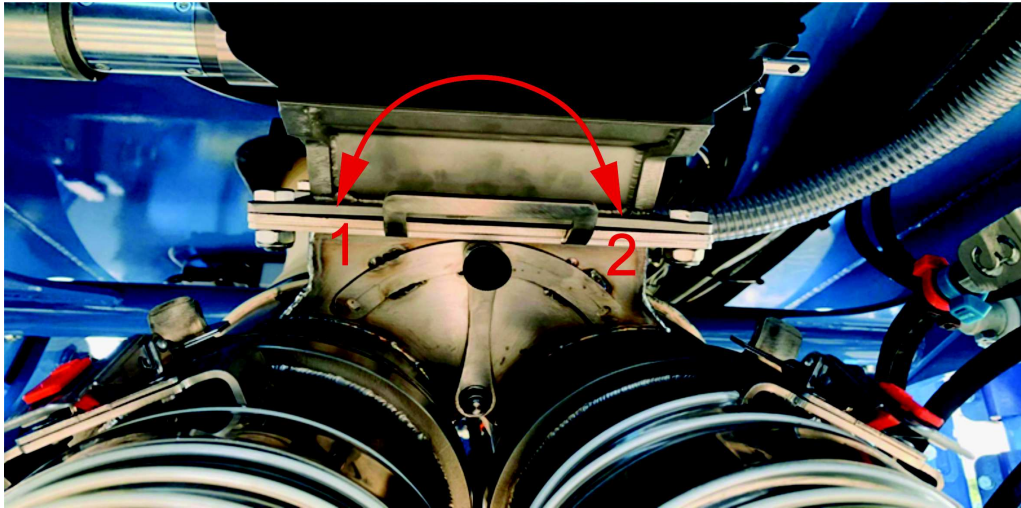
The cleaning blade must be adjusted so that it touches the disc at **point B** around its entire circumference.

The disc must be able to be turned freely by hand.



20.4 Storing fertilizer together with seed (Fert S)

The Fert S system allows the seed and fertilizer to be stored together at the same time. The seed and fertilizer are replaced in the seed furrow. The fertilizer is fed into the distributor head together with the seed. Using the mixer flap (see picture below) it is possible to set the fertilizer dosing into both chimneys (middle position) or to select position 1 or 2 of fertilizer dosing only into the first or second chimney.



21 ADJUSTING THE DOSE DURING WORK

This function is used to adjust the target dose (100%) to a dose in the range of +/-100%, if the engine allows to use in this range.

1.

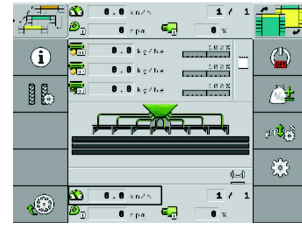


- Turn on the application

Touch



Basic

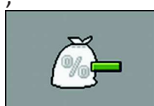


| Function icon | Meaning |
|---------------|--|
| | Increase the target dose. The target value is increased by a defined value in the product database. |
| | Reduces the target dose. |
| | Restores the target dose to 100%. |

2.

- Dose adjustment.

3.

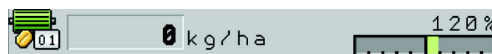


or



4.


On the work screen, the change is shown as follows


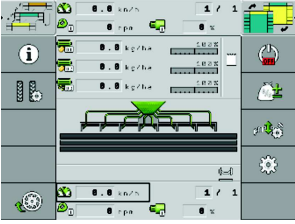



- The control unit recalculates the target dose.
- After one minute of working with the changed target dose, the change indicator starts flashing.

22 EMPTYING THE HOPPER USING ELECTRONICS


- The system allows the hopper to be emptied using electric or hydraulic motors and calculates the residual quantity.



1.  • Turn on the application the Touch Basic

2.  → 

3. It is necessary to have a selected container that we want to empty.

- Hopper
- 1 / 2 / 3 


| NASTAVENÍ 2 / 3 | |
|---|---|
| Nádrž | 1 |
| Nádrž | 1 |
| Prirazený výrobek | MOTOR 1 |
|  |  |
| |  |
| |  |

4. 

5. Confirm **Dispenser**.



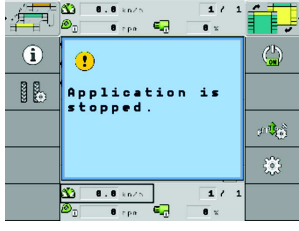

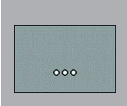


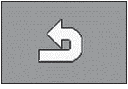
6. 

7. The calibration buttons are currently used to empty the hopper. When using the emptying function with a hydraulic motor, it is necessary to have an activated circuit for the hydraulic motor.


8.  When the hopper is empty, press the button

23 WORKING POSITION SOURCE


- To switch the sowing on and off, the machine must have information on the working position. In the system it is possible to set which source of working position the system of the machine will use.

| | | Touch | Basic |
|----|--|--|---|
| 1. |  <ul style="list-style-type: none"> Switch application off |  |  |
| 2. |  <ul style="list-style-type: none"> Settings. | | |
| 3. |  <ul style="list-style-type: none"> Go to the next page | | |
| 4. |  <ul style="list-style-type: none"> Go to the next page | | |
| 5. | <p>Working position</p> <ul style="list-style-type: none"> Working position sensor 1 – The source is the machines antenna sensor (default setting)  <ul style="list-style-type: none"> Tractor – The source is the working position from the sensor (CAN) of the tractor, eg tractor arms, GPS. No / Always in working position – the machine is constantly in the working position (deepen). | | |
| 6. | <p>After selecting your selected source, use to return to the work screen</p>  | | |

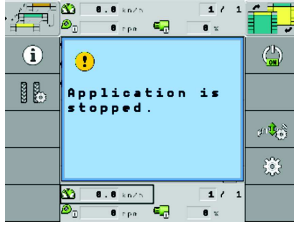
24 SOURCE SPEED MACHINERY

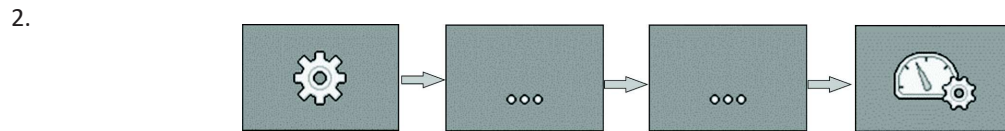
1.  • Turn off the application

Touch



Basic





There are 3 options of the travel speed source:

- 1) **Tractor** – The source of speed is the tractor. The machine must be connected to the ISOBUS or CAN of the tractor.



- 2) **Work equipment** – The source of speed is radar or speed GPS directly on the machine



If the machine is equipped with **radar** set the number of pulses to - 13 500 to 100 meters.
 If the machine is equipped with **GPS** (speed), set the number of pulses to - 13 000 to 100 meters.

- 3) **Simulation** – this setting is used to simulate a constant speed (use for service purposes).



25 MACHINERY GEOMETRY

- This setting is used to define the geometry of the machine relative to the tractor. It is also possible to set the advance and delay of the engine start (sowing).


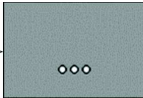
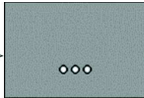
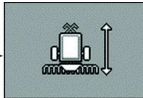
1.  • Turn off the application

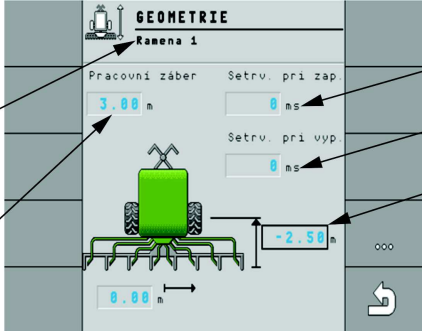
Touch



Basic

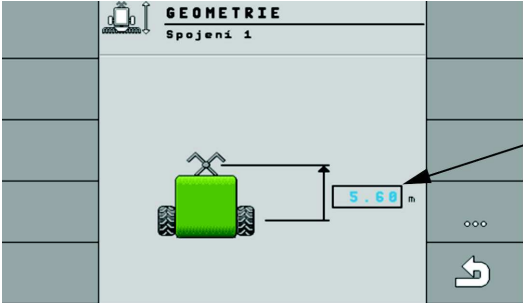


2.  →  →  → 

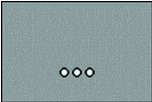


1: Working width of the hopper 1 (motor 1)
 2: Working width of the hopper 1 (motor 1)
 3: Engine start time 1
 4: Advance engine shutdown 1
 5: Distance from the axle axis to the seed outlet


Note on the point 5: If the section is behind the axle axis, the value must always be negative (sowing section), if the section is in front of the axle, the value must be positive (fertilization section).



6: Distance from the drawbar pin to the axle axis

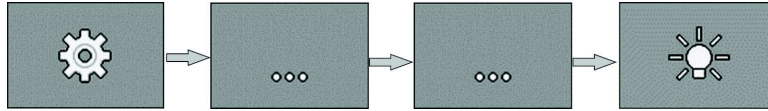
The button is used to move to the setting of arm 2,3 and connection 1 

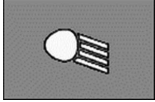
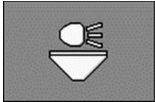

| | | | |
|---|---|---|--|
| 1 | Setting of the hopper 1 (motor 1) | 4 | Advance engine shutdown 1 |
| 2 | Working width of the hopper 1 (motor 1) | 5 | Distance from the axle axis to the seed outlet |
| 3 | Engine start time 1 | 6 | Distance from the drawbar pin to the axle axis |

Use the back button to return from the geometry settings .

26 OMACHINE LIGHTING

1.



| Function icon | Meaning |
|---|---|
|  | Switching work lights on and off. |
|  | Switching the hopper lighting on and off. |
|  | Switching the beacon on and off. |

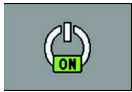



2.

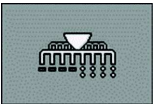
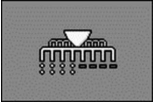

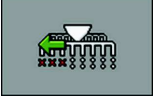


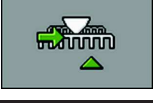
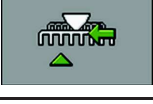

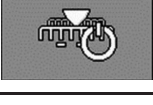
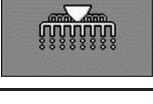


After activating your selected function, use to return to the work screen.


27 CONTROLLING SECTION MANUALLY (SECTION CONTROL)

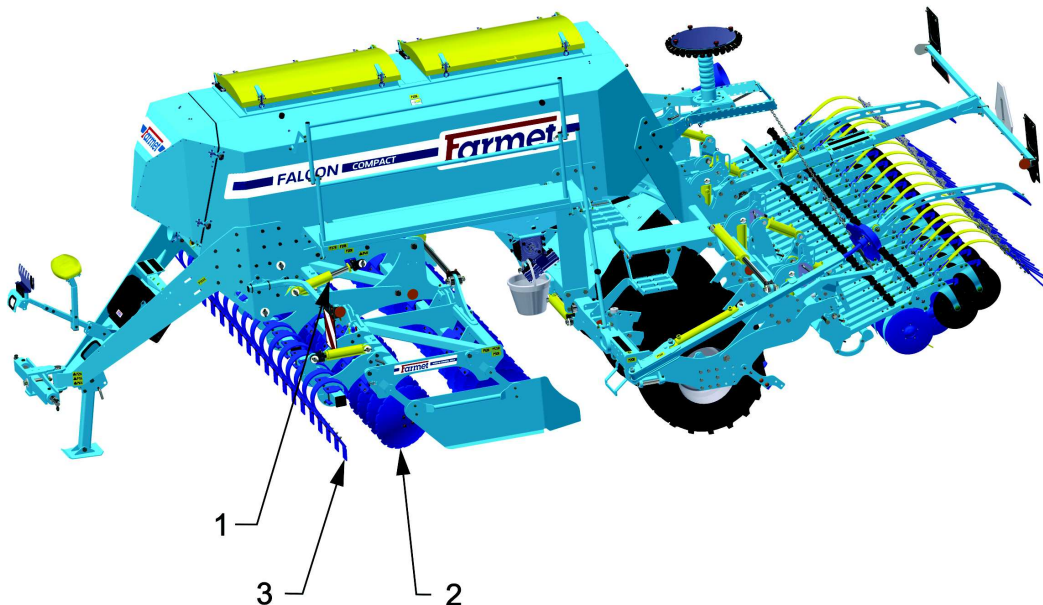
- You can switch sections of your tool using the section control.
- The size of the respective sections that you can switch depends on the type of machine and equipment.
- On the work screen you can see which sections are on and off.

| | | | Touch | Basic |
|----|---|--|--|---|
| 1. |  | <ul style="list-style-type: none"> • Turn on the application |  |  |
| 2. |  | <ul style="list-style-type: none"> • Controlling the sections | | |

| Function icon | Meaning |
|---|---|
|  | Switching the left half of the machine on and off (motor 1). |
|  | Switching the right half of the machine on and off (motor 2). |
|  | Switching off sections from the left side. |
|  | Switching sections from right to left. |
|  | Switching off sections from the right side. |
|  | Switching sections from left to right. |
|  | Moves the cursor from left to right on the work screen. |
|  | Moves the cursor from right to left on the work screen. |
|  | Indicates the part / line that was selected by the cursor for shutdown. Turns on the marked, off section / line. |
|  | Turns all marked sections / lines on or off. |
|  | Turns everything on. |

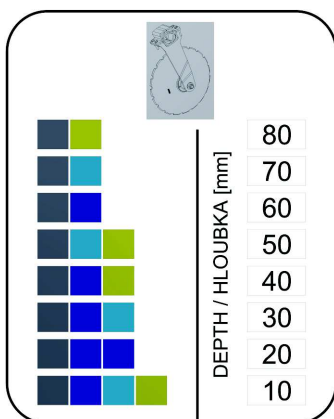
28 ADJUSTING THE DEPTH OF THE FRONT PREPARATION SECTION

- The front preparation sections are controlled with help  and an open ball valve.

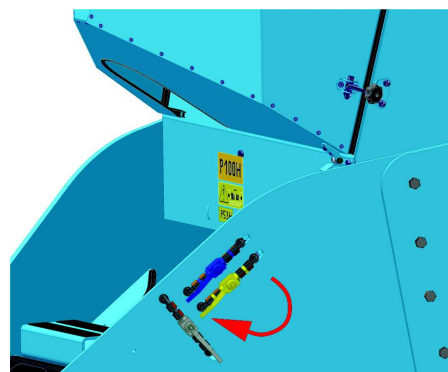
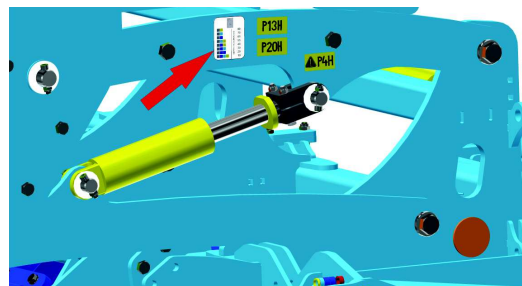


| | |
|---|---|
| 1 | Piston rod for section depth adjustment |
| 2 | Front preparation section (disc) |
| 3 | Flexi board section |

Settings for a double-row disc section:



Placement of the sticker on the machine





The red clip at the disc section must never be removed. The section is not dimensioned to a depth of more than 80mm and there is a risk of damage!



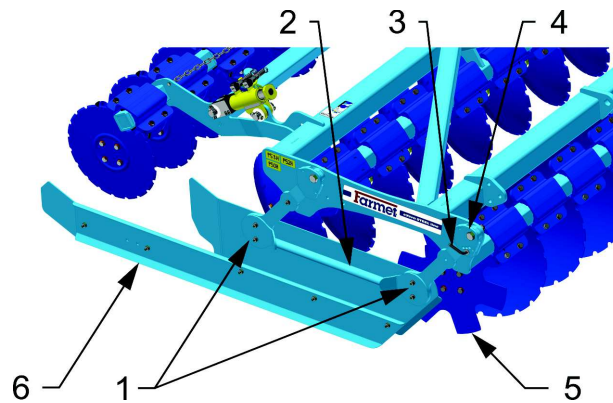
The working depth of the machine must be set so that the spring protection of the working tools (tines) does not unlock frequently. The spring protection should only release very sporadically. Unlocking can occur on a maximum of one working tool (tine) on the entire machine after a 100 - 200 m drive. If unlocking is more frequent, it is necessary to reduce the working depth. Due to the frequent release of the spring protection, excessive wear of the pins and other parts of the spring protection can occur. In this case, their more frequent replacement is necessary.

28.1 Side deflectors of the front preparation section

- Side deflectors prevent the soil from being ejected through the working width of the machine and level the soil wall created by the external discs.

Settings

- The settings must be adapted to the soil conditions.
- No ramparts or furrows may be created between rides.



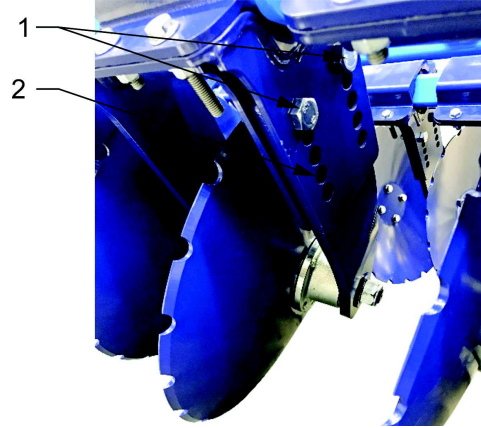
| | |
|---|---|
| 1 | Possibility of adjustment in the horizontal direction |
| 2 | Deflector handle |
| 3 | Deflector depth adjustment pin |
| 4 | Backdrop for deflector depth adjustment |
| 5 | Star disc |
| 6 | Deflector |

28.2 Tractor track cultivators

All Falcon machines with a disc pre-processing section are equipped with tractor track cultivator to loosen the tractor tracks.


Depth setting of cultivators:

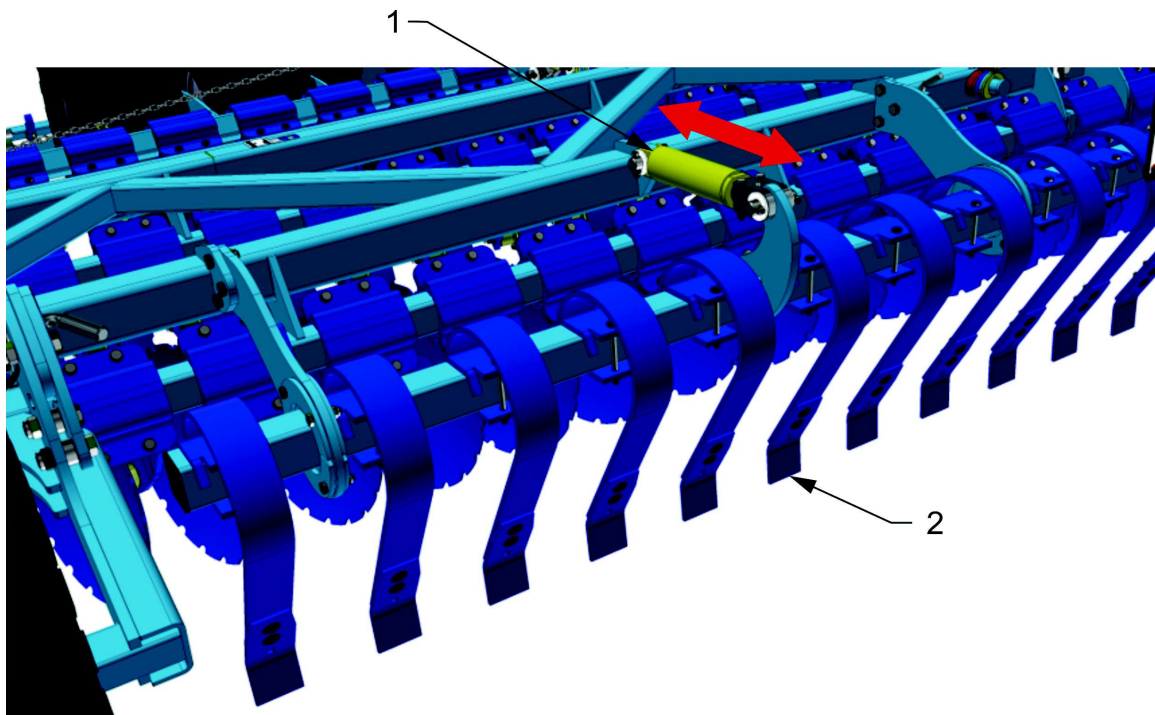
- Loosen the screws (1)
- Adjust the depth of the cultivators using the holes (2)
- Tighten the screws (1)



| | |
|---|---------------------------------------|
| 1 | Screws |
| 2 | Holes for setting the loosening depth |

28.3 Flexiboard

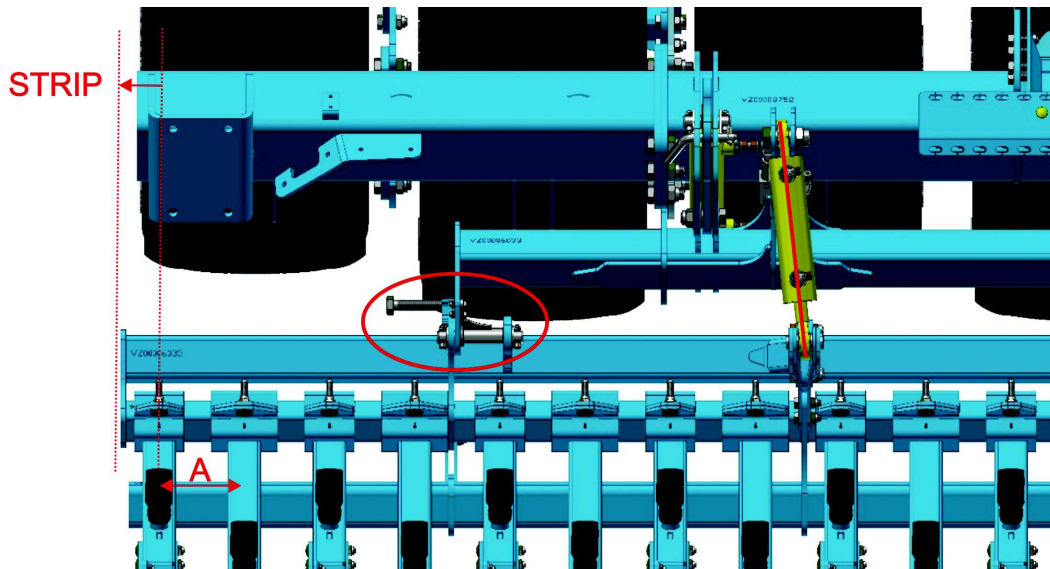
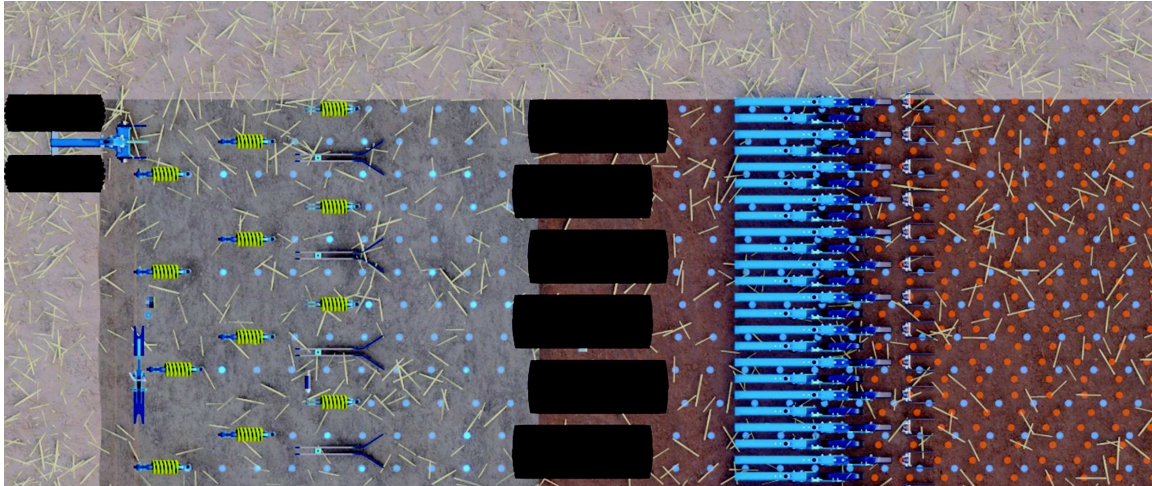
- Flexi boards are controlled with help 
- It is used to level plowed soils and a lot of lumpy terrain.
- Before the first use, it is always necessary to pressurize the flexi board to the end position to ensure the uniformity of all its sections.
- It is possible to change its depth directly from the tractor cab according to the current conditions.
- The use of a flexi board is not recommended when sowing in mulch.



| | | | |
|---|------------------------|---|--------------------------|
| 1 | Flexi board piston rod | 2 | Flexi board working body |
|---|------------------------|---|--------------------------|

29 TRAY PARTITION

- Possibility of moving the seed coulters to the same spacing as the fertilizer section (sowing with every other seed coulters, the seed is stored in the same line as the fertilizer section).
1. Sowing STANDARD, fertilization in the interline.

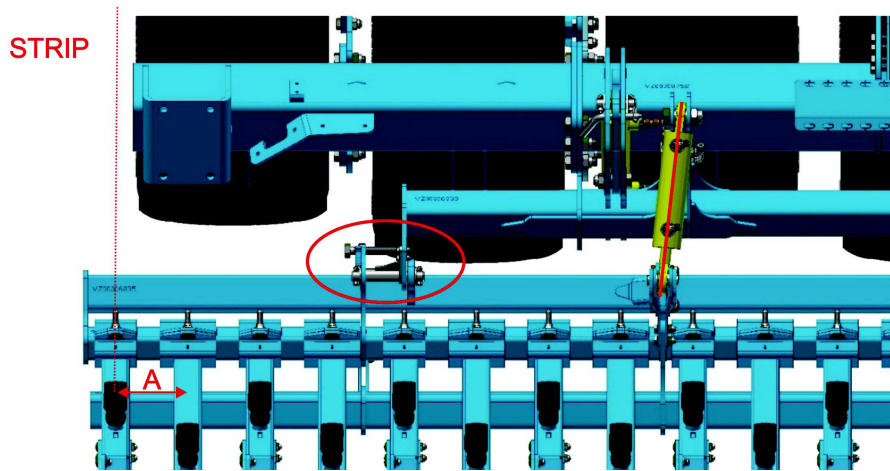
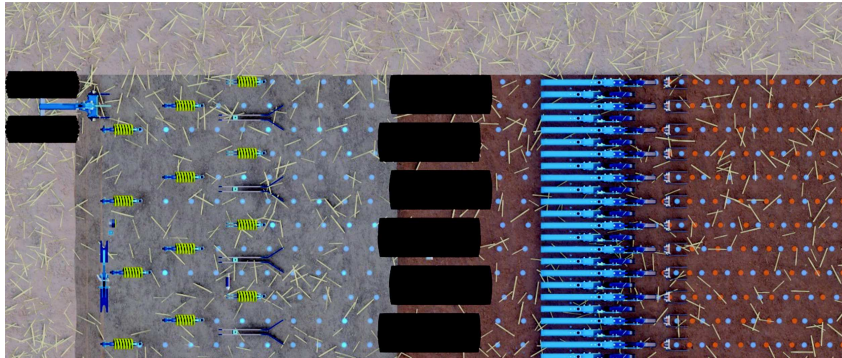


- To readjust the sowing section to STRIP technology, it is necessary to move the sowing section by half the spacing of the seed coulters **A**. This is done using the adjusting screw.
- For the coulters spacing 125 the sowing section is shifted by 62.5 mm, for the 143 mm spacing is by 71,5 mm, for the 150 mm spacing is by 75 mm and for the 167 mm spacing is by 83,5 mm. The locking segments are used for this.



IT IS NOT NECESSARY TO ADJUST THE MARKERS OR GPS.

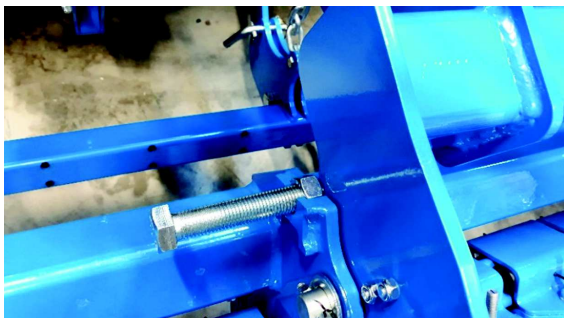
2. Sowing STRIP, fertilizing in a row.



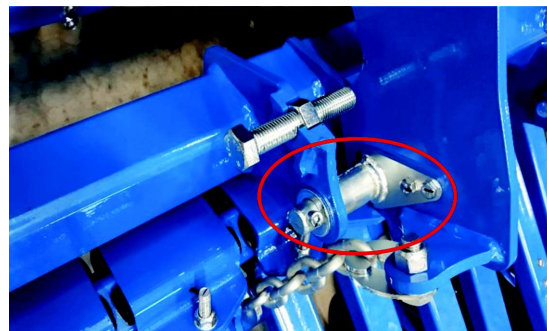
How to change to STRIP:

1. We release and remove the locking segment from the whole section.
2. All section displacement pins must be lubricated.
3. Insert the screw for moving the section (accessory).
4. From the left side, we will gradually start moving the section.
5. Refit the locking segment.

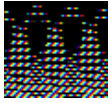
TECHNOLOGY STANDARD



TECHNOLOGY STRIP



30 BRAKES



- The machine can be equipped with a pneumatic brake system.
- After parking, the machine must be braked with the parking brake.
- Uncontrolled spontaneous movement of the machine can cause serious injuries or death.
- Park the machine only on level ground with sufficient capacity.

Brake connection

1. Connect the control connection head (yellow).
2. Connect the filling connection head (red).
3. Release the parking brake.

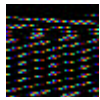
Disconnect brakes

1. Secure with the parking brake.
2. Disconnect the filler connection head (red).
3. Disconnect the control connection head (yellow).

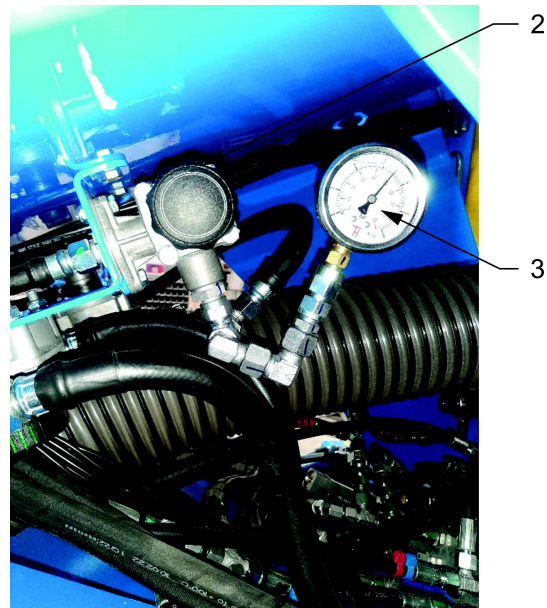
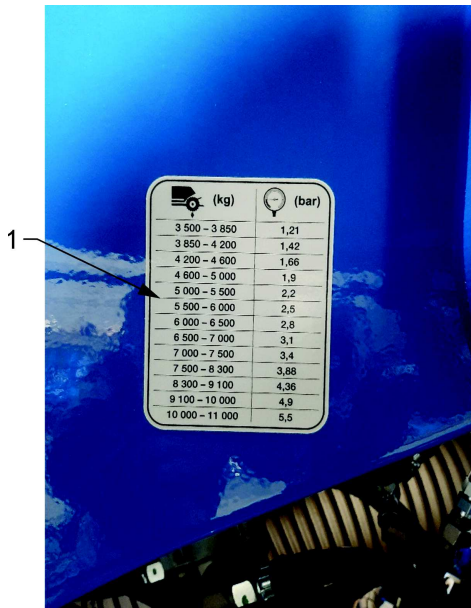
30.1 Air brake

- The air brake is designed as a double-hose brake with a pressure regulator.

The pressure reducing valve is installed above the rear axle together with the information label containing the correct brake system pressure settings. The setting depends on the axle load stated, for example, on the machine plate



When replacing the preparatory section, check the axle load and set the pressure in the brake system correctly according to the information label.

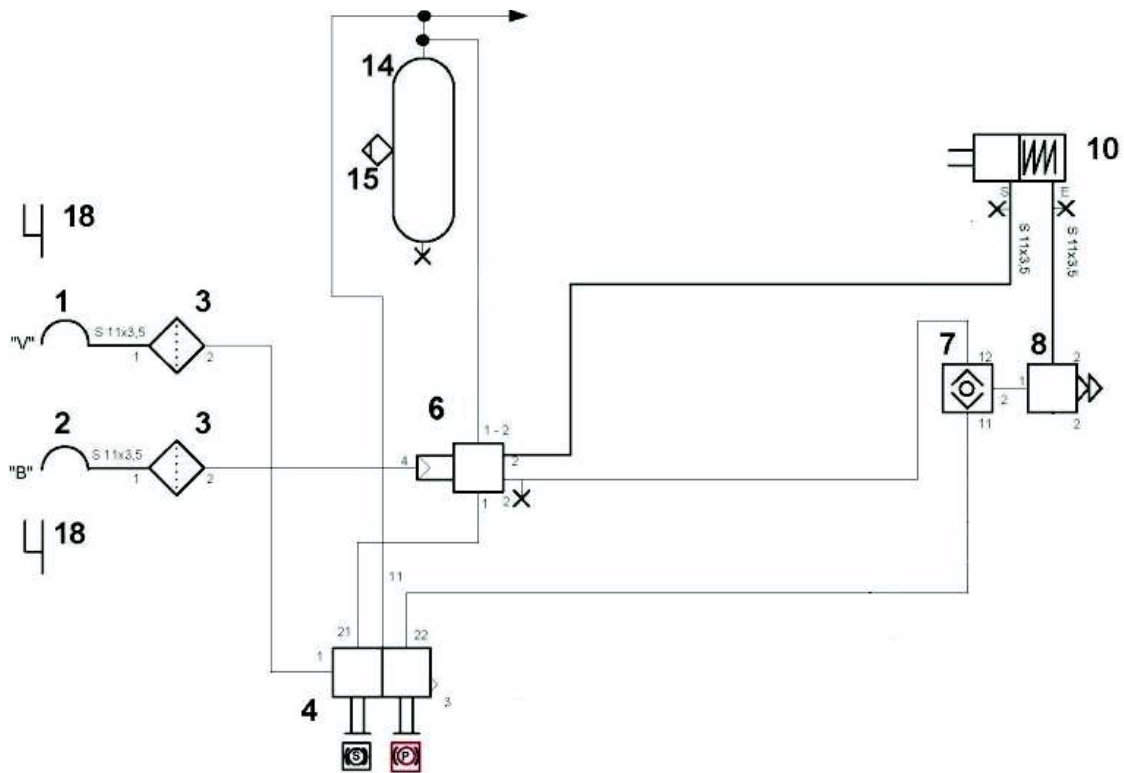


| | | | |
|---|-------------------------|---|-----------|
| 1 | Information label | 3 | Set value |
| 2 | Pressure reducing valve | | |

30.2 BRAKE SYSTEM

- The standard version of the machine includes a single-circuit two-line braking system by KNORR BREMSE
- The actual braking is mediated by spring brake cylinders – the parking brake is implemented inside and its automatic (controlled by the button see below).
- Sufficient air pressure in the system is required to release the parking brake. Always check that the parking brake is released before driving.
- If the machine is equipped with brakes, they must be connected to the tractor when driving.
- When lifting the machine on the axle, always unblock the machine.
- Attention!!! When air leaks from the system, the parking brake is automatically activated and physical release is only possible mechanically, see below.

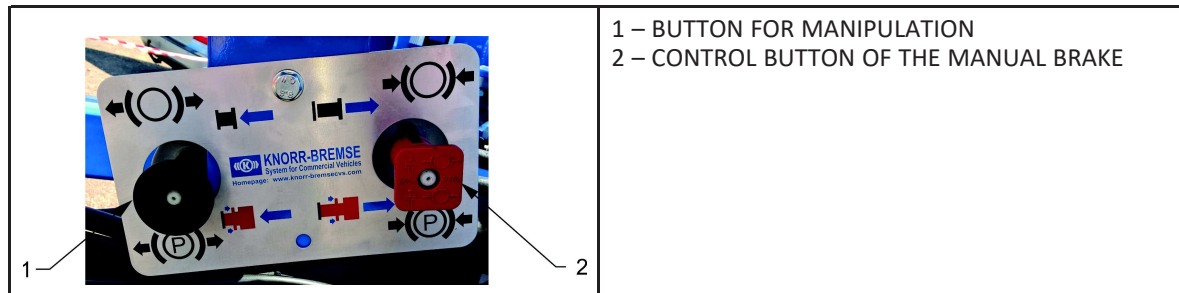
30.2.1 Brake wiring diagram



| | | | |
|----|-----------------------------------|-----|----------------------------------|
| 1. | Quick-coupler – red line | 8. | Jettisoning valve |
| 2. | Quick-coupler – yellow line | 10. | Combined membrane brake cylinder |
| 3. | Air filter | 14. | Air tank 40l |
| 4. | control valve of the manual brake | 15. | Drain valve |
| 6. | Brake valve | 18. | Quick-coupler holder |
| 7. | Two-way valve | | |

30.2.2 Hand brake control valve

- The rear axle brakes are equipped with an automatic parking brake, the function of which is described below.
- The parking brake is activated automatically upon disconnecting the red quick coupler from the tractor.



Description of hand brake operation with disconnected air line

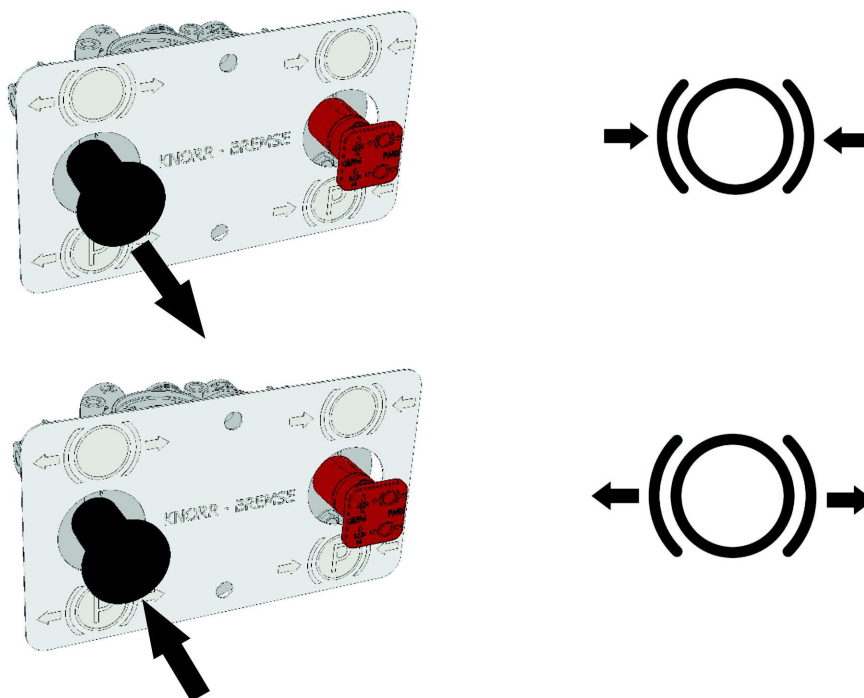
- The parking brake will automatically activate when the air hoses are disconnected
- The black button can be used to release the brake for manoeuvring
- The control is functional only if there is sufficient air in the air reservoir
- After pressurizing the system, it will automatically switch to the driving (extended) position

Black button extracted

- The parking brake is locked

Black button is pressed

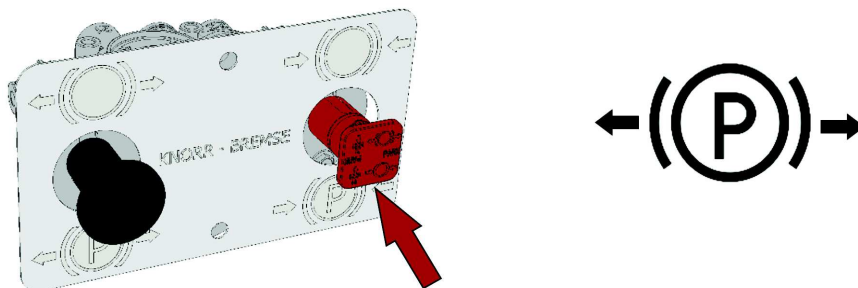
- The parking brake is unlocked
- The brake is released only if there is sufficient air pressure in the air reservoir



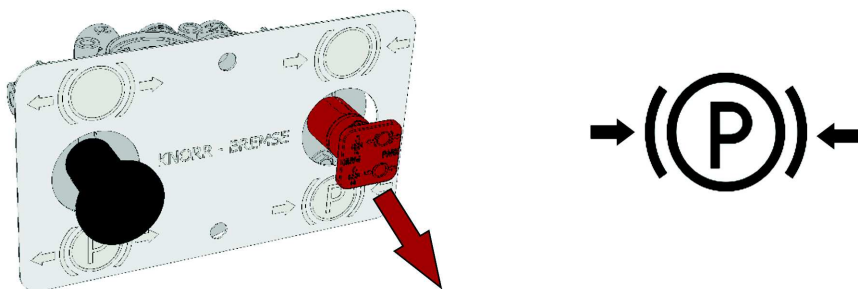
Description of hand brake operation with connected air line

- During driving, the button must always be in the pressed position (it will not automatically switch)
- When disconnecting the machine, there is no need to use it, as the brake will automatically activate upon disconnecting the red quick coupler from the tractor.

RED BUTTON PRESSED = **MANUAL BRAKE IS NOT ACTIVE (THE MACHINE IS RELEASED)**



RED BUTTON EXTRACTED = **MANUAL BRAKE IS ACTIVE (THE MACHINE IS BRAKED)**



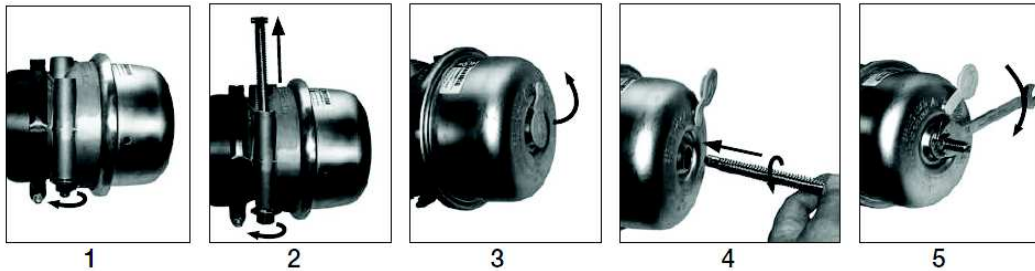
30.2.3 Emergency brake release in case of air leak


- It is possible to release the brakes of the machine using special brake release bolts in case of a leak of air from the brake system.



- The bolts are included in the installation unit of the brake cylinder.

Emergency brake release procedure in case of air leak

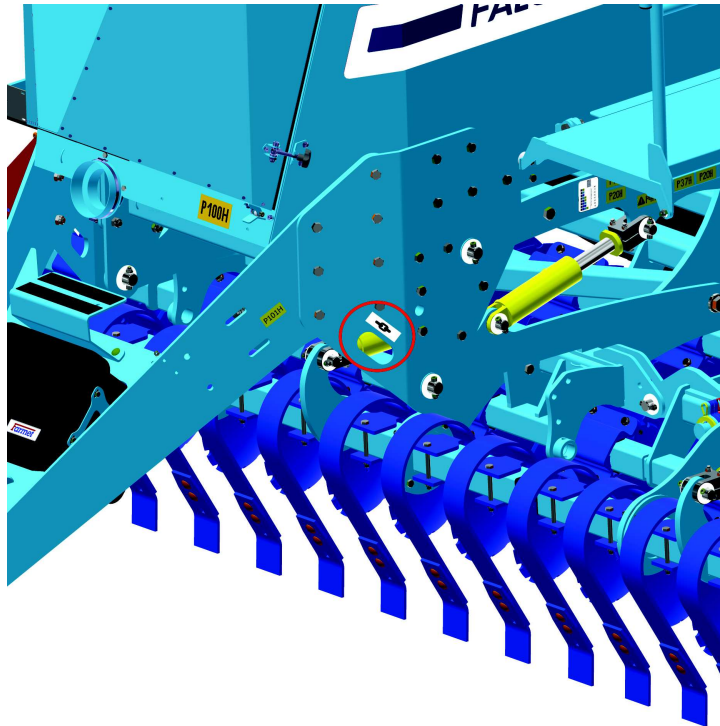


- Remove the bolts from the holders of the brake cylinder (Fig. 1 and 2)
- Release the cap on the back side of the brake cylinder (Fig. 3)
- 
 - Insert the bolt by its flat end (T-shape) into the opening in the cylinder and turn the bolt by 90° at the end of the opening so that the screw is arrested and cannot be pulled out (Fig.4)
 - Turn the nut (19 mm spanner) clockwise (Fig.5). ATTENTION: Maximum torque is limited to 68 Nm.

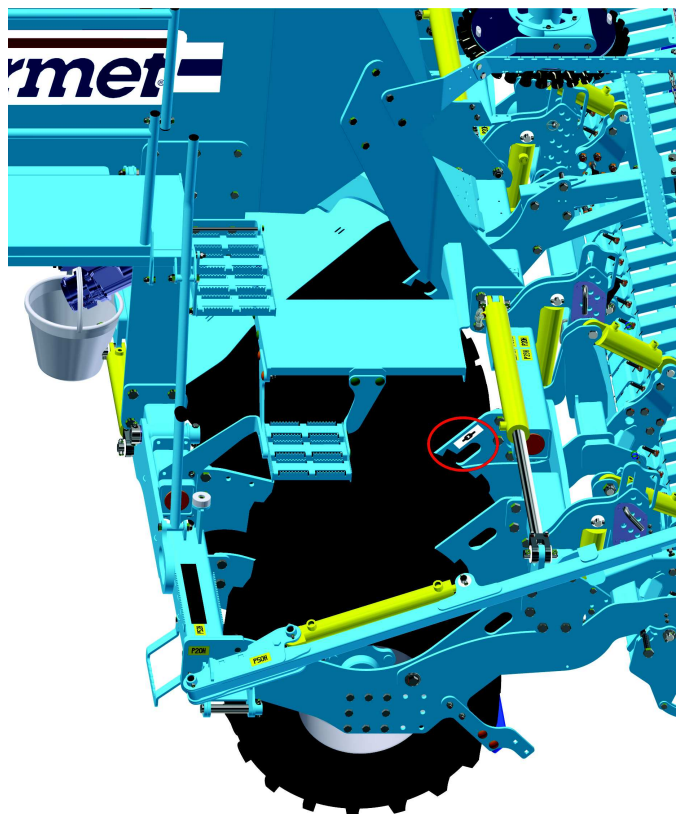
31 HANGING THE MACHINE ON A CRANE

- For hanging it necessary to use fabric or rubber harnesses with sufficient load capacity. There is a risk of damaging the machine when using the chain.

Suspension point on the drawbar



Suspension point on the rear frame



32 ERROR MESSAGES

32.1 ISO messages

| ID | Alarm text | Possible cause | Possible remedy |
|-----|--|--|---|
| 001 | The system has been stopped. A restart is required. | The connection to the SLAVE slave control unit has been interrupted. Download manager has been activated | Disconnect and connect the control unit (disconnect the ISO connector). |
| 002 | The configuration has changed. The job computer restarts. | The configuration has changed. | Wait until the control unit restarts. |
| 003 | Input too high. | The value entered is too high. | Enter a lower value. |
| 004 | Input too low. | The value entered is too low. | Enter a higher value. |
| 005 | Error reading or writing data in flash memory of EEPROM.. | An error occurred while starting the job computer. | Disconnect and connect the control unit (disconnect the ISO connector). |
| 006 | Data was successfully downloaded. | | |
| 007 | A configuration error has been detected. | The configuration is incorrect. | Check the configuration. |
| 008 | The procedure is not permitted as long as the job is activated in the ISOBUS-TC application. | The job is activated in the ISOBUS-TC application. | Deactivate the order. |
| 009 | Speed signal lost from CAN bus. | The cable connection has been disconnected. | Check the cable connection. |
| 010 | Error initializing Control-Layer. | The control-layer was incorrectly configured. | Check the configuration. |
| 011 | Multiple terminals have the same number. | There are several terminals with the same number (function instance) on ISOBUS. | Change the number (function instance) in the terminal. |
| 012 | Multiple TASK controllers have the same number. | There are several TASK controllers with the same number on ISOBUS. | Change the number. |
| 013 | The list of orders is full. | Too many orders are available in the order list. | Delete unnecessary orders. |
| 014 | Internal order recording stopped due to product change. | The product was changed during the recording of the internal order. | Select the original product. |
| 015 | The order failed to run because another product was assigned. | A different product than the one assigned to the tank in the configuration is stored in the order. | Check which product is correct and correct the order or assignment to hopper. |

| ID | Alarm text | Possible cause | Possible remedy |
|-----|---|---|--|
| 043 | Dataset already exists. | An identical dataset already exists. | Check the dataset or change the name. |
| 044 | The dataset is defective. | There is an error in the dataset. | Check the dataset. Reinstall the software. |
| 045 | Dataset no found. | The selected dataset was not found. No calibration test has yet been performed for the selected product.. | Choose another dataset or perform a calibration test for the selected product. |
| 046 | Loop overflow. | There is a conflict between the database and the machine. | You need to free up disc space on the terminal. |
| 047 | Database is full. | Database is full. | First, delete the dataset to save the new one. |
| 060 | The entry cannot be accepted. The value has been corrected. | The width of the arms is not divisible by the assigned sections. | Check the width of the arms and the number of sections. |

32.2 Regulations alarms

| ID | Alarm text | Possible cause | Possible remedy |
|-----|--|--|--|
| 400 | The configured required blower speed is invalid. Product: xxxx. | The set required speed is outside the specified fan drive limits for the respective product. | Change the minimum and maximum limits of the required product speed. |
| 401 | The blower rotates too slowly. | The current fan speed is lower than the minimum allowed. | Increase fan speed. |

| ID | Alarm text | Possible cause | Possible remedy |
|-----|--|---|--|
| 402 | The blower rotates too fast. | The current fan speed is higher than the value entered in the parameter „Blower speed tolerance“. | Reduce the fan speed or change the tolerance limit. |
| 403 | Pressure too high. | The pressure of the linear encoder is higher than the value of the “Maximum value” parameter. | Reduce the pressure or change the parameter “Maximum value”. |
| 404 | Pressure too low. | The pressure of the linear encoder is lower than the value of the “Minimum value” parameter. | Increase pressure or change parameter “Minimum value”. |
| 405 | Dosing has been stopped since the working position has not been reached. Excavate the sowing section. | The machine is not in the working position. | Excavate the sowing section. |
| 406 | Dosing was stopped because the machine was not completely raised. Excavate the sowing section. | The machine was not fully raised. | Excavate the sowing section. |
| 407 | The dispenser drive is stopped. | The current speed of the dosing drive is lower than the minimum speed. | Stop now! Eliminate the cause. |

| | | | |
|-----|--|--|---|
| 408 | The metering shaft is stationary. | Speed sensor on the dosing shaft does not register any movement of the dosing shaft. | Stop now! Eliminate the cause. |
| 410 | The dispenser drive is outside the control area. | The current dosing drive speed is higher or lower than set speed. | Drive slower/faster or use a larger/smaller metering unit. |
| 411 | The dosing drive cannot comply with the setpoint. | You are driving too fast or too slow. It is not possible to reach the required value at the current speed. | Drive slower or faster so she can control unit to regulate the sowing rate. |
| 412 | The application has stopped due to a fatal error. | An error has occurred. This error always occurs in combination with another error. | Please fix the related error. |
| 413 | The application was stopped due to high driving speed. | Driving speed is too high. | Reduce the speed. |
| 414 | Dosing was stopped because the machine was not completely raised. Excavate the sowing section. | The machine was not fully raised. | Excavate the sowing section. |
| 415 | The blower rotates too fast. Dosing was stopped. | AThe current fan speed is higher than the value of the parameter "Max. rpm". | Reduce the fan speed or change the blower parameter "Max rpm". |

| ID | Alarm text | Possible cause | Possible remedy |
|-----|--|---|---|
| 416 | The blower rotates too slowly. Dosing was stopped. | The current fan speed is lower than the value of the parameter "Min. rpm". | Increase the fan speed or change the blower parameter "Min. rpm". |
| 417 | The calibration flap is open. Please close it. | The calibration flap is open, although it is currently being sown. | Close the calibration flap. |
| 418 | The calibration flap is closed. Please open it. | The calibration flap is closed, although a calibration test is currently being performed. | Open the calibration flap. |

32.3 Machine-specific alarms

| ID | Alarm text | Possible cause | Possible remedy |
|-----|-------------------------------|---|---|
| 602 | Connection lost. | The connection to the ERC module has been lost. | Check the cables. |
| 603 | Connection disrupted. | The connection to the ERC module is interrupted. | Check the cables. |
| 604 | Supply voltage too low. | The supply voltage of the ERC modules is too low. | Check the supply voltage and check the vehicle battery. |
| 605 | Short circuit. | There is a short circuit in the ERC modules. | Check the cables. |
| 606 | Open load current circuit. | An open load circuit has been detected for the ERC modules. | Check the cables and make sure the disconnect connector is available. |
| 607 | Recognizes. ERC module error. | The configuration is incorrect. | Check the IN and OUT configuration. |

| | | | |
|-----|--|--|---|
| 608 | Seed flow was not recognized. | The seed flow system did not detect any seed flow. | Check the seed flow system. |
| 609 | Seed flow was detected. | Seed flow occurred in the tramline. | Check the tramline switching. Kalpak tightness check. |
| 611 | Low tank level. | There is little seed or fertilizer in the hopper. | Fill the hopper. |
| 612 | The tank is empty. | There is no seed or fertilizer in the hopper. | Fill the hopper. |
| 613 | Exceeding the time when closing the section. | It takes too long to close the left section. | Make sure something is blocked. |
| 617 | Defective charger. | The charger alternator is defective. | Check the charger alternator. |
| 618 | No product flow was detected in the active row. | No product flow was detected in the active row. | Check the product flow, or some supply lines are blocked. |
| 619 | Too high flow detected in the active row. | Product flow detected too high was detected in the active row. | Check the calibration. |
| 620 | Product flow too low in the active row detected. | Too little product flow was detected in the active row. | Check the calibration. |


| ID | Alarm text | Possible cause | Possible remedy |
|-----|--|---|---|
| 621 | Not available for this product no dataset. | A calibration test has not yet been performed for the product in question. | Perform a calibration test before working with the product. |
| 622 | The sowing test button is activated. | The sowing test button was activated before opening the calibration screen. | Release the sowing test button. |
| 630 | Connection lost. | The connection to the MRC module has been lost. | Check the cables. |
| 631 | Undefined module index. | A software error has occurred. | Contact customer service. |
| 636 | There is no seed for overdosing. | Too little seed was detected during pre-dosing. | Make sure that sufficient seed is available. |
| 638 | The engine stopped. | The MRC engine stopped. | Check the cables. |
| 639 | Current too high. | The MRC motor requires too much current. | Make sure something is blocked. |
| 640 | No speed was reached. | The MRC module did not reach the required speed. | Check the cables. Check the seed drills. |
| 641 | Power voltage too low. | The power voltage of the MRC module is too low. | Check the cables. |
| 642 | Electronics voltage too low. | The electronics voltage at the MRC module is too low. | Check the cables. |
| 643 | Sensor voltage too low. | The sensor voltage at the MRC module is too low. | Check the cables. |
| 650 | Connection lost. | The connection to the AIRidium® sensor has been disconnected. | Check the cables. |
| 651 | Undefined module index. | An error occurred of the AIRidium® module. | Contact customer service. |
| 660 | Connection lost. | The connection to the CAN Repeater has been disconnected. | Check the cables. |

| | | | |
|-----|--|---|--|
| 663 | Drop below minimum voltage. | The voltage is lower than the pre-set minimum supply voltage. | Check wiring and supply voltage. |
| 664 | Sensor error detected PLANTirium®. Pollution rate too high. | The sensor is dirty. Sensitivity does not match the selected product. | Clean the sensor and/or change the sensitivity in the product. |
| 665 | An error has been detected in the PLANTirium® sensor. Faulty sensor transmitter. | The sensor transmitter is defective. | Check the cables on the sensor. |
| 666 | An error has been detected in the PLANTirium® sensor. Not achieved. | The minimum supply voltage has not been reached. | Check the cables. |

| ID | Alarm text | Possible cause | Possible remedy |
|-----|--|--|---|
| 667 | Sensor error detected PLANTirium®. LIN-BUS communication error. | AQ LIN-Bus communication error has occurred. The sensor did not receive any messages from the LIN-Bus. | Check the cables. |
| 668 | Working speed is out of speed range. | Working speed is too high or too low. | Make sure you are within the speed range you found during the calibration test. |
| 669 | An error has been detected in the PLANTirium® sensor. Connection lost. | The connection to the PLANTirium® sensor has been disconnected. | Check the cables on the sensor. |
| 670 | Seed flow system error. Error: Sensor: | An error has occurred in the seed flow system. | Check the seed flow system. |
| 671 | Seed flow system error. | An error occurred in the seed flow system. | Check the seed flow system. |
| 672 | Product flow detected in inactive row. | Product flow detected in inactive row. | Check disconnection. |
| 680 | Connection lost. | The connection to the monitoring/control module has been disconnected. | Check cables. |
| 681 | Undefined module index. | An unconfigured monitoring/control module was found. | Check the number of configured or connected modules. |
| 686 | Supply voltage too low. | The supply voltage at the monitoring/control module is too low. | Check the cables. |
| 688 | The target value cannot be met. Seed coulter pressure. | The required setpoint for the linear actuator has not been reached. | Check the linear actuator for blockage. |
| 689 | The target value cannot be met. Working depth. | The required setpoint for the linear actuator has not been reached. | Check the linear actuator for blockage. |
| 690 | An error has been detected in the CAN repeater. 5V – Wrong voltage. | The CAN repeater is defective. | Contact the customer service. |
| 691 | An error has been detected in the CAN repeater. 3.3 V – Wrong voltage. | The CAN-Defeater is defective. | Contact the customer service. |

| 692 | An error has been detected in the CAN repeater. 2.5 V – Wrong voltage. | The CAN-Defeater is defective. | Contact the customer service. |
|-----|---|--|-------------------------------|
| 693 | Error detected in CAN-Repeater 12 VE- Faulty voltage. | The power supply to the electronics is defective. | Check the cables. |
| ID | Alarm text | Possible cause | Possible remedy |
| 694 | An error has been detected in the CAN repeater. 12 V – Faulty voltage. | The power supply voltage is defective. | Check the cables. |
| 695 | An error has been detected in the CAN repeater. Error converting AD. | The CAN-Repeater is defective. | Contact the customer service. |
| 696 | An error has been detected in the CAN repeater. Error entering address. | An error was detected during the addressing process. | Check the cables. |
| 697 | An error has been detected in the CAN repeater. Error in parameter block. | The CAN-Repeater is defective. | Contact customer service. |
| 698 | Transmission of the log file has started. Message, when finished. | | |
| 699 | Transmission of the log file completed. | | |



33 MACHINE MAINTENANCE AND REPAIRS

- Repairs to the machine may only be carried out by a trained person. When leaving the tractor cab, the operator must switch off all hydraulic circuits, appliances on the machine (fan) and the engine, the operator must prevent unauthorized access to the tractor.
- Worn discs are only replaced when the machine is at a standstill (means the machine is stationary and not working).
- If it is necessary to weld during repairs and have the machine connected to the tractor, the supply cables must be disconnected from the alternator and battery.
- Check the tightening of all screw and other mounting connections on the machine before each using of the machine.
- Continuously check the working parts of the machine for wear or replace these worn working parts with new ones.
- Adjustment, cleaning and lubrication of the machine may only be performed when the machine is at standstill (means the machine is stationary and not running).
- When working on the raised machine, use a suitable support device supported in suitable places.
- When adjusting, cleaning, maintaining and repairing the machine, you must secure those parts of the machine that could endanger the operator by falling or other movement.
- Repairs to the hydraulic circuits may only be carried out disassembled and the machine must be laid on the ground by the working units.
- When repairing the hydraulic circuits of the machine, it is first necessary to depressurize the hydraulic circuits of the machine.
- Use only the areas marked with self-adhesive labels with a chain symbol to catch the machine when handling with a lifting device „“.
- In the event of a fault or damage to the machine, switch off the tractor engine immediately and secure the engine against restarting, secure the machine against movement — only then you can remove the fault.
- Only use original spare parts, suitable tools and protective equipment when repairing the machine.
- Regularly check the prescribed tire pressure of the machine and the condition of the tires. Carry out any tire repairs in a specialist workshop.
- Keep the machine clean.
- Regularly check the tightening of the nuts of the working parts.



- **Do not clean hydraulic cylinders (piston rods), bearing and electronic parts with a high-pressure cleaner or a direct stream of water. Seals and bearing are not waterproof at high pressure.**

33.1 Maintenance plan

| Maintenance plan | | | | | |
|---|---|----------|-------------------|------------------|---------------|
| Maintenance operation | Daily (season) | 40 h | Before the season | After the season | Time interval |
| Generally a machine | | | | | |
| <ul style="list-style-type: none"> Visual inspection of the machine Monitoring of unwanted sounds, vibrations and excessive wear. | X | | | | |
| <ul style="list-style-type: none"> Inspection of key nodes: pins, bearings, cylinders, working bodies | X | | | X | |
| <ul style="list-style-type: none"> Cleaning the machine Storage of the machine ideally under the roof Record machine raid / season (ha) | | X | | X | |
| <ul style="list-style-type: none"> Complex visitation Frame inspection | X | | | X | |
|  | Do not clean hydraulic cylinders, bearings, electrical and electronic parts with a high-pressure cleaner or a direct stream of water. Seals and bearings are not waterproof at high pressure. | | | | |
| Hydraulic system | | | | | |
| Check the function, tightness, fastening and abrasions of all hydraulic components and hoses | | X | X | | |
| Hydraulic hoses – replacement: <ul style="list-style-type: none"> Damage hose outer casing (mechanically or swollen) Fluid leakage (especially at the tip) Bumps or blisters on the hose Deformed or corroded terminal Loose end – the hose rotates | X | | | X | |
| Hydraulic hose– replacement: <ul style="list-style-type: none"> Hose life exceeded | | | | | 6 years |
|  | | | | | |
| !!! PREVENTION means to eliminate the problem planned, out of season without stress and comfortable before a secondary problem, accident or health threat arises. | | | | | |

| Maintenance plan | | | | | |
|---|----------------|----------|-------------------|------------------|---------------|
| Maintenance operation | Daily (season) | 40 h | Before the season | After the season | Time interval |
| Screw connections | | | | | |
| Visual inspection of screw and hydraulic connections, tighten loose connections with the appropriate tightening torque (table of tightening torques) | X | | | X | |
| Wheels – Tighten all wheel nuts <ul style="list-style-type: none"> For the first time after 10 hours of operation After changing the wheel after 10 hours of operation M 18 x 1,5 – 300 Nm M 20 x 1,5 – 400 Nm M 22 x 1,5 – 500 Nm | | X | X | | |
| Brake system | | | | | |
| Brake lines and hoses - check function, tightness, fastening and clamping or breakage | X | | X | | |
| Brake components - check function, tightness, fastening | X | | X | | |
| Aerator – drainage by drain valve | | X | | | |
| Drain valve – verification of functionality, cleaning and replacement of seals | | | | X | |
| Pipe filter - cleaning | | | | X | |
| Brake/parking brake – functional check, step adjustment 25-45mm | X | | X | | |
| Brake lining – check the condition of the brake lining, min. thickness 3 mm | | | X | | |
| Wheels / axle | | | | | |
| Tire pressure check | X | | X | X | |
| Transport axle bearings – check and possible adjustment of play (work in the workshop) | | | | X | |

| Maintenance plan | | | | | |
|--|----------------|----------|-------------------|------------------|---------------|
| Maintenance operation | Daily (season) | 40 h | Before the season | After the season | Time interval |
| Pneumatic system | | | | | |
| Fan: Speed setting function | X | | X | | |
| PTO fan – check oil level | | X | X | | |
| PTO oil change The first after 50 operating hours The second after 200 operating hours Others after 400 hours | | | | | 1 year |
| Fan protection grille: Condition check, dirt removal | X | | | | |
| Oil cooler | | X | | | |
| Fan impeller Condition check and fastening, dirt removal Check the fan drive mounting | | X | | | |
| Fan, seeding hose, mixer: Tightness, clamping points, clogging, general condition | X | | | X | |
| Hydraulic couplings and hoses: Tightness of all components and permeability | X | | | | |
| Distributor: Foreign matter control. Unscrew the distributor cover and check the outlets Check the function and position of the tramline flaps | X | | | | |
| Sowing device (dispenser) | | | | | |
| Checking the overall condition, adjustment, wear, tightness | | | X | | |
| Checking for the presence of foreign bodies | X | | | | |
| Check the condition of the drive, motor bearings | | X | | | |
| Check the tightness of the plate on the roller | | | X | | |
| !!! PREVENTION means to eliminate the problem planned, out of season without stress and comfortably before a secondary problem, accident or health threat arises. | | | | | |

| Maintenance plan | | | | | |
|--|----------------|----------|-------------------|------------------|---------------|
| Maintenance operation | Daily (season) | 40 h | Before the season | After the season | Time interval |
| Damage check, possible replacement | | X | X | | |
| Safety device | | | | | |
| Lighting and safety hatched boards – check condition, functionality and cleanliness | X | | X | | |
| Warning and safety labels – presence and legibility check | | X | | | |
| Lubrication schedule of the machine | | | | | |
| Drawbar joint / suspension eye - grease | X | | | X | |
| Parking brake bolt – grease or suitable oil | X | | | X | |
| Axle bearings – grease containing LITHIUM – inspection, possible filling | | | | X | |
| After season | | | | | |
| The whole machine Perform treatment and cleansing; do not spray plastic parts with oil or similar means Spray the piston rods of the hydraulic cylinders with suitable anti-corrosion agents Check the strength of all screw and plug-in connections (see table of tightening torques) Check electrical wiring for damage and replace if necessary | | | | | |
| Brake system Before the last ride, preserve with antifreeze (approx. 0,1l) without ethanol, use the one recommended by the tractor manufacturer Secure the machine against movement with wheel chocks Release the parking brake, bleed the air and close the brake lines The service and parking brakes must be released during the winter to prevent them from sticking to the brake drum | | | | | |
| Lubrication points Lubricate the lubrication points according to the lubrication schedule, with KP2P-20 Likx grease according to DIN 51 502 | | | | | |
| !!! PREVENTION means to eliminate the problem planned, out of season without stress and comfortably before a secondary problem, accident or health threat arises. | | | | | |

33.1.1 Lubricant handling

- Treat lubricants and oils as hazardous waste in accordance with applicable laws and regulations.
- Protect yourself from direct contact with oils and lubricants by using gloves or protective creams.
- Wash oil marks on the skin thoroughly with warm water and soap. Do not clean the skin with petrol, diesel or other solvents.
- Oil or grease is toxic. If you have swallowed oil or grease, see a doctor immediately.
- Protect children from contact with lubricants and oils.

33.1.2 Tire pressure

| Load of an empty machine on axle | | | |
|----------------------------------|-----------|---------------|---------------|
| Tire | from | to | Tire pressure |
| Mitas 405/70 R20 | 0 kg | 7 920 kg | 1,5 Bar |
| | 7 920 kg | 10 242 kg | 2,0 Bar |
| | 10 242 kg | 12 306 kg | 2,5 Bar |
| | 12 306 kg | 14 280 kg | 3,0 Bar |
| Mitas 420/65 R20 | 0 kg | 6 570 kg | 0,6 Bar |
| | 6 570 kg | 7 530 kg | 0,8 Bar |
| | 7 530 kg | 8 460 kg | 1,0 Bar |
| | 8 460 kg | 9 330 kg | 1,2 Bar |
| | 9 330 kg | 10 350 kg | 1,4 Bar |
| | 10 350 kg | 11 400 kg | 1,6 Bar |
| Tire | | Tire pressure | |
| AS504 420/55 R17 | | 3,5 Bar | |
| AS08 7,5 – 18 | | 4,25 Bar | |

34 SHUTTING DOWN THE MACHINE

Shutting down the machine for a longer period of time:

- Park the machine under a roof if possible.
- Park the machine on a level and firm surface with sufficient capacity.
- Before storing the machine, remove dirt and preserve it so that the machine does not suffer any damage during storage. Pay special attention to all marked lubrication points and lubricate them properly according to the lubrication schedule.
- Park the machine in the transport position with the frames folded down. Park the machine on the axle and parking leg, secure the machine against unintentional movement with wheel chocks or other suitable aids.
- The machine must not rest on the discs. There is a risk of damaging the machine's discs.
- Secure the machine against unauthorized access.

35 ENVIROMENTAL PROTECTION

- Regularly check the hydraulic system for leaks.
- Preventive replacement or repair of hydraulic hoses or other parts of the hydraulic system showing signs of damage before an oil leak occurs.
- Check the condition of the hydraulic hoses and replace them in good time. The service life of hydraulic hoses also includes the time for which they were stored.
- Dispose of oils and fats in accordance with applicable waste laws and regulations.

36 END OF LIFE MACHINE DISPOSAL

- When disposing of the machine, the operator must ensure that steel parts and parts in which hydraulic oil or grease moves are distinguished.
- The operator must cut the steel parts in accordance with the safety regulations and hand them in at a collection point for secondary raw materials. They must proceed with other parts in accordance with the applicable waste laws.

37 SERVICE AND WARRANTY CONDITIONS

37.1 Servicing

Service is provided by a sales representative, after consultation with the manufacturer or the manufacturer directly. NSpare parts through the sales network by individual dealers throughout the country. Use spare parts only in accordance with the spare parts catalog officially issued by the manufacturer.

37.2 Warranty



- 1.** The manufacturer provides a basic warranty for the product for a period of 12 months. In the case of immediate registration of the sale to the end customer, including their valid contact details, the end customer receives an extended warranty of 36 months. The warranty is provided from the date the product is handed over to the end user (buyer). The registration must be completed by the seller (sales representative) on the My Farmet online portal. Upon correct registration, the end user will gain access to the My Farmet portal and all the benefits of the extended warranty.
- 2.** The warranty covers hidden defects that manifest during the warranty period under proper use of the machine and in compliance with the conditions specified in the Operating Manual.
- 3.** The warranty does not cover consumable spare parts, i.e., normal mechanical wear and tear of replaceable working parts (shares, discs, harrow tines, roller bearings, etc.).
- 4.** The warranty is tied to the machine and does not terminate with a change of ownership. The extended warranty is conditional upon registering the new owner's contact details in the My Farmet portal.
- 5.** The warranty is limited to disassembly and assembly, replacement, or repair of the defective part. The decision on whether the defective part will be replaced or repaired lies with the manufacturer, Farmet.
- 6.** During the warranty period, repairs or other interventions on the machine may only be carried out by an authorized service technician of the manufacturer. Otherwise, the warranty will not be recognized. This provision does not apply to the replacement of consumable spare parts (see point 3).
- 7.** The warranty is conditional upon the use of original spare parts supplied by the manufacturer.

2016/003/02

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 (PL) DEKLARACJA ZGODNOŚCI WE

1. (CZ) My (GB) We (D) Wir (F) Nous (RU) Мы (PL) My: **Farmet a.s.**
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 DIČ: CZ46504931
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2. (CZ) Strojní zařizení: - název : **Diskový secí stroj**
 (GB) Machine: - name : **Disc sowing machine**
 (D) Fabrikat: - Bezeichnung : **Scheibensämaschine**
 (F) Machinerie: - dénomination : **Semeuse à disques**
 (RU) Сельскохозяйственная машина: - наименование : **Дисковая сеялка**
 (PL) Urządzenie maszynowe: - nazwa : **Siewnik talerzowy**
- typ, type : **FALCON**
 - model, modèle : **FALCON COMPACT**
 - PIN/VIN :
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 - (GB) serial number
 - (D) Fabriknummer
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 - (RU) заводской номер
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3. (CZ) Příslušná nařízení vlády: č.176/2008 Sb. (směrnice 2006/42/ES). (GB) Applicable Governmental Decrees and Orders: No.176/2008 Sb. (Directive 2006/42/CE). (D) Einschlägige Regierungsverordnungen (NV): Nr.176/2008 Slg. (Richtlinie 2006/42/EG). (F) Décrets respectifs du gouvernement: n°.176/2008 du Code (directive 2006/42/CE). (RU) Соответствующие постановления правительства: № 176/2008 Сб. (инструкция 2006/42/ЕС). (PL) Odpowiednie rozporządzenia rządowe: nr 176/2008 Dz.U. (Dyrektywa 2006/42/WE).

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(CZ) Schválil (GB) Approve by date: 02.01.2024
 (D) Bewilligen (F) Approuvé
 (RU) Утвердил (PL) Uchwalif

Ing. Petr Lukášek
 Technical director



V České Skalici date: 02.01.2024

Ing. Tomáš Smola
 Director of the Agricultural Technology Division

