

QuickStart Guide

Phoenix Multicutter



INTRODUCTION

Introduction	2
Technical information	3
Grease Fittings locations	4 - 5
Preparations before use	6 - 7
Usage	8 - 9
Maintenance	10
Troubleshooting	11
Flow-table and contact information	12

Serigstad has developed the award-winning PHOENIX Multicutter based on the flail technology known from the renowned Serigstad forage harvester.

This further development represents a modernization and enhancement of one of agriculture's most well-known and beloved machines, and it was awarded Sølvakset at Agroteknikk 2024.

Throughout the development process, we maintained close contact and dialogue with farmers as end users of the machine, which gave us many "aha" moments and important adjustments. We've truly felt that without "thinking like a farmer," we wouldn't get far. That's why it has become a slogan we proudly stand behind! We know what it truly means—and it's absolutely essential to our success.

Operational reliability, simplicity, capacity, and forage handling have been the key guiding principles in the development. We're very pleased with the changes made along the way and are confident that we've created a machine and product that delivers on the most important criteria.

Is it perhaps the most operationally reliable and most straightforward forage wagon on the market with this level of capacity and unique forage handling? We know the forage processing is unique and a real strength. We understand how crushing and opening up the grass impacts the effectiveness of ensiling, preservation, palatability, and feed quality. Everything is in place for a feast at the feed trough.

Note!

The Føniks has its maximum allowed total weight, as specified under technical information. The weight is calculated based on volume and mass with a 30% dry matter level. Under extreme conditions and very low dry matter content, it may be possible to significantly overload the wagons, and we recommend driving smaller loads in such conditions.

TECHNICAL INFORMATION



Dimensions			
	Phoenix 13	Phoenix 17	Phoenix 25
Length	6 800 mm	6 800 mm	8 600 mm
Height	2 915 mm	3 315 mm	3 315 mm
Width	~ 2 800 mm		
Transport width	2 560 mm		

Weight and balance			
	Phoenix 13	Phoenix 17	Phoenix 25
Unladen weight	3 700 kg	3 900 kg	5 800 kg
Drawbar weight with no load	900 kg	948 kg	1 180 kg
Estimated drawbar weight with full load and ensilage tank	1 500 kg	1 970 kg	1 216 kg
Gross vehicle weight (max 40 km/t)	11 000 kg	11 000 kg	15 000 kg

Vogn			
Volume	13 m ³	17 m ³	25 m ³
Tire dimensions standard	600/50/22,5		
Tire dimensions optional	710/40/22,5		
Tire pressure	2,6 bar		
Max load on ring hitch	2 700 kg		

Rotor	
Work width	1 900 mm
Number of knives	58 pcs
Power requirements	140 hk / 103 kW
PTO rotational speed	1 000 rpm
Rotational speed rotor standard	1 570 rpm
Rotational speed rotor optional	1 750 rpm

Ensilage equipment	
Tank capacity	565 litre
Pump capacity	8 litre/minute

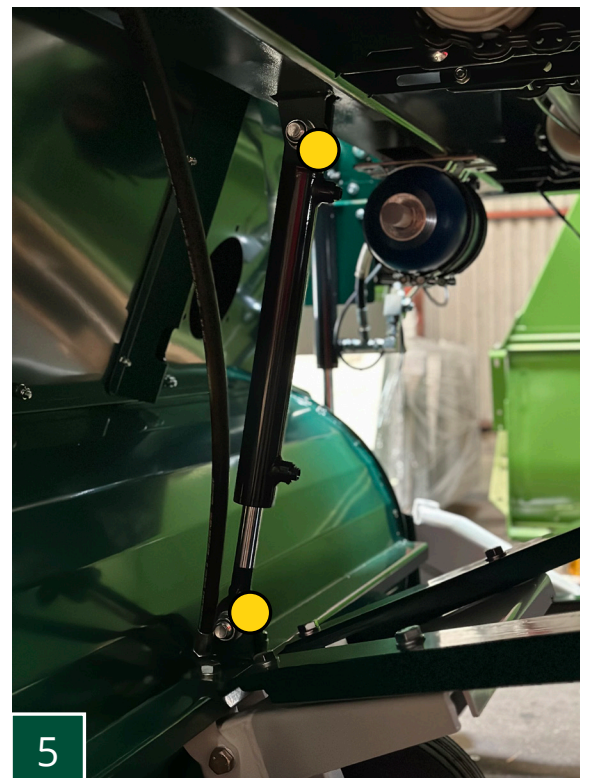
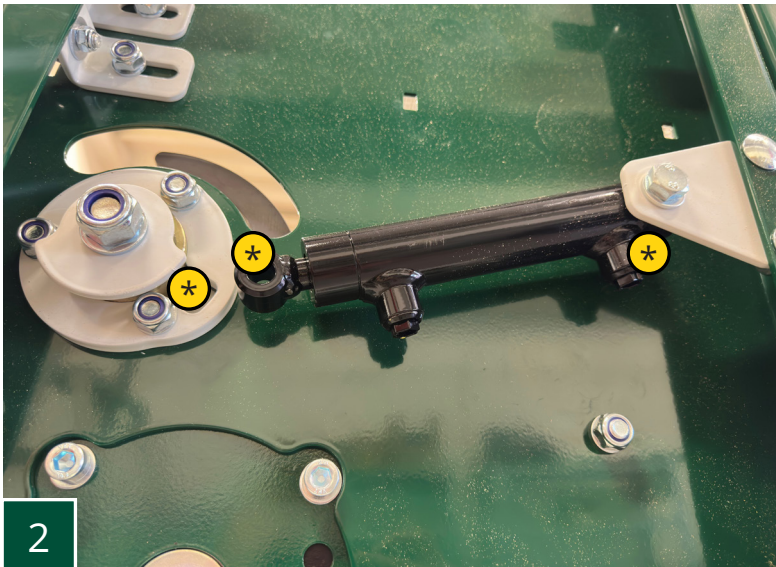
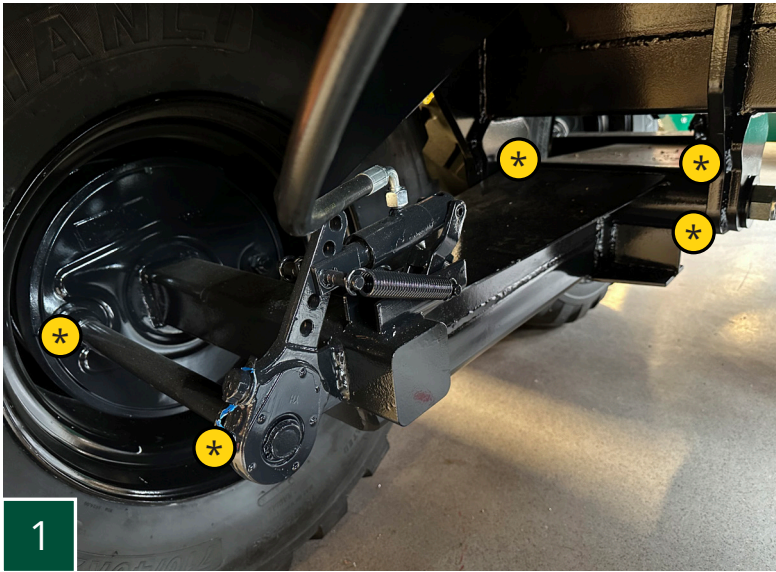
GREASE FITTINGS LOCATIONS

GREASE FITTINGS LOCATIONS

- 8 hour grease intervals
- 24 hour grease intervals
- * The same on both sides



GREASE FITTINGS LOCATIONS



PREPARATION

ADJUST PTO-SHAFT

Check and adjust the length of the power take-off (PTO) shaft. Cut with an angle grinder if necessary.

CHECK HYDRAULICS

Check that the hydraulic pressure is such that the needle is within the green zone on the scale. This ensures the rotor floats with the desired pressure against the ground.

If adjustments are necessary, proceed as follows:

- Bend the drawbar
- Open the hydraulic valve for the rotor
- Lift the rotor with the hydraulics to the upper position so that the pressure builds above the green area on the pressure gauge
- Close the valve
- Set the rotor outlet to float
- Open the valve carefully until the needle is within the green area on the scale
- Close the valve (the valve is closed when the handle points toward the funnel)



ADJUST SIDE-WHEELS

Side wheels are adjusted to one of seven positions to prevent the rotor from having too much range of motion and touching the ground, and to ensure stability. The distance from the ground to the lowest point of the cutting unit should be 7 cm. Check that both sides are adjusted equally.

The center wheel has a fixed position.



JUSTERING AV SLEGLER

The distance between the knives and the counter blades is adjusted by starting the rotor and gradually adjusting the counter blades towards the knives until they make contact. Then move it back slightly.

The distance is adjusted by loosening the bolt and turning the cam lock screw (dark gray in the image). Remember to tighten the bolt again afterward.



PREPARATION

CHECKING BELT TENSION

Check that the belts are sufficiently tightened. This is done by loosening the hex screws (red) and then tightening the tensioning bolts (yellow) until the spring washers begin to resist. This will give a spring package height of approximately 20 mm. Be careful not to overtighten the spring washers. Tighten the hex screws (red) again after the spring washers have the correct tension.

GREASE FITTINGS AND VISUAL INSPECTIONS

Check and refill grease fittings (see grease fittings locations on page 4).

ADJUSTING ENSILING ADDITIVE

The amount of ensiling additive is set by adjusting the manual throttle valve to the desired level. The valve is screwed completely shut and then opened according to the table to achieve the desired amount. The ensiling pump is activated with a toggle switch on the control panel. The table can be found on the last page of this manual.

ADJUST THE DRAWBAR

Adjust the drawbar so that the wagon is horizontal in the lower position. This is adjusted by unscrewing the three screws that hold the mounting plates, rotating the plates with cam lock screw holes to the desired position, and then tightening them again. There are 5 different position options.

CONNECTING HYDRAULICS

The hydraulic hoses are color-coded.

Yellow: Lift of cutting unit and brakes (single-acting)

Blue: Bottom belt and locking of rear door

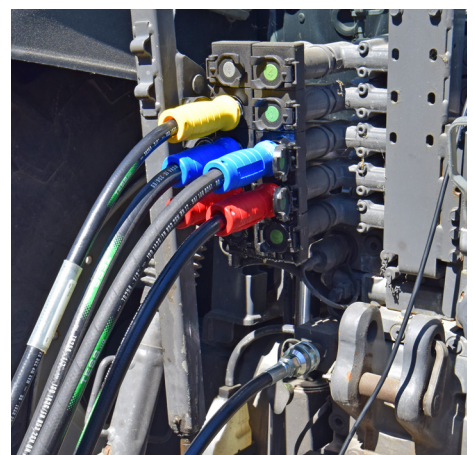
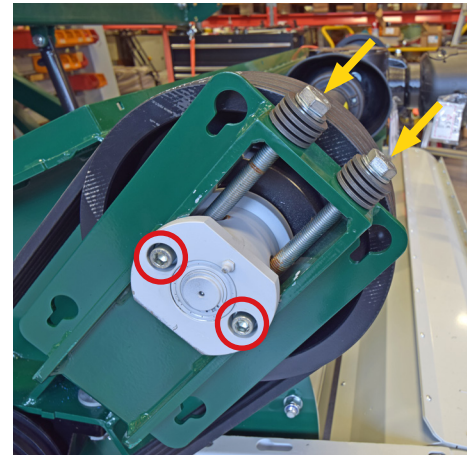
Red: Drawbar bending

CONNECTING ELECTRICITY

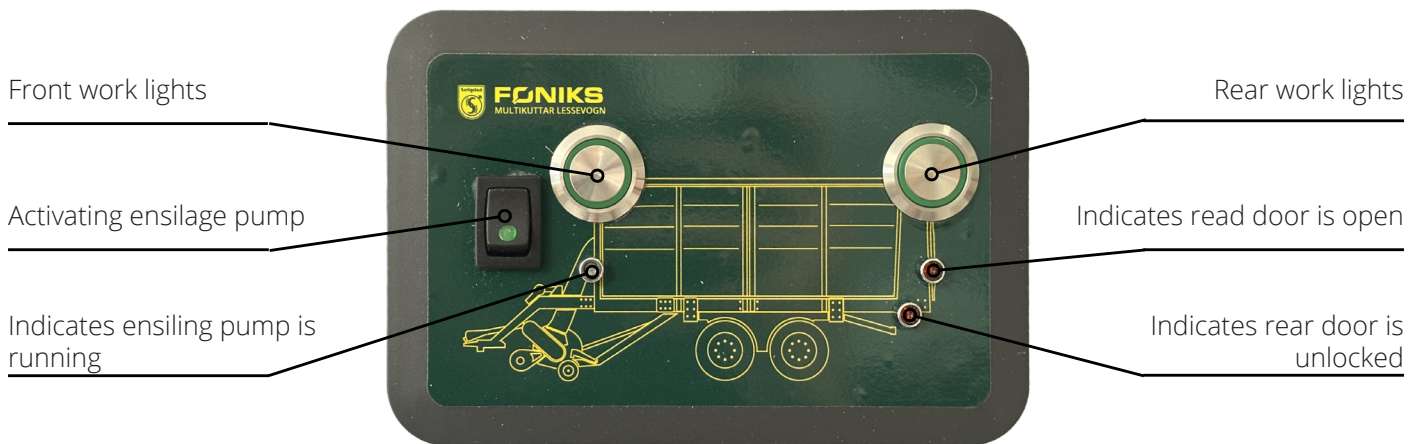
Connect the driving lights.

The control panel is connected to the fuse box via the 12-pin connector.

Power to the fuse box is connected via a 3-pin connector on the tractor.



USAGE



Front work light

This switch turns the front work light on and off on the trailer. The button lights up green when the work light is turned on.

Rear work light

This switch turns the rear work light on and off on the trailer. The button lights up green when the work light is turned on.

Activating ensiling pump

This switch activates the ensiling equipment. When activated, the button will light up green, and the ensiling pump will start if the external start/stop switch is engaged. When deactivated, the pump will not start.

Indicates rear door is open

This diode lights up when the rear door is open. When the diode is off, the rear door is closed, and you can lock the rear door (via hydraulics).

Indicates ensiling pump is running

This diode lights up when the ensiling pump is running (the start signal is engaged, and the ensiling equipment is activated).

Indicates rear door is unlocked

This diode lights up when the rear door is unlocked. When the diode is off, the rear door is locked, and it is safe to drive.

USAGE

BENDING THE DRAWBAR

Make sure the support leg is in the inner position to avoid the front roller being pinched when bending the drawbar.

PARKING AND PARKING BLOCKS

Place parking blocks near the bogie wheels to prevent rolling when parking.

Note! The front support leg must be fully pushed into position after use to prevent the front roller from being pinched when bending the drawbar.

OPERATING THE BOTTOM BELT (EMPTYING)

When operating the bottom belt, actuators for the rear door lock will open and the bottom belt will move. The rear door is lifted by the grass (a light on the control panel indicates when the door is open). Once the load is emptied, the rear door will close, the light will turn off, and the rear door will lock by reversing the bottom belt slightly. The lock indicator light will be on when the door is unlocked and will turn off when the rear door is locked.

SHUTTING OFF HYDRAULICS

The hydraulic cylinder for bending the drawbar is locked via the hydraulic valve at the top of the drawbar. This is done to safely perform maintenance or troubleshooting on the wagon.



MAINTENANCE

GREASE FITTINGS

Grease fittings should be refilled every 8 or 24 operating hours, respectively. An overview of grease fittings can be found on page 4.

TIGHTENING THE BOTTOM BELT

The bottom belt should be tightened every 24 operating hours.

CHECKING AND TIGHTENING WHEEL BOLTS

Wheel bolts should be regularly checked and retightened.

CHECKING BELT TENSION

Regularly check that the belts have the desired tension, as described on page 7.

CLEANING ENSILING EQUIPMENT AFTER USE

After use, the ensilage tank and hoses should be flushed through with water to avoid corrosion.

CLEANING THE WAGON AFTER USE

Remove grass residues to ensure that the door closes and locks properly, and to prevent corrosion over time.

TROUBLESHOOTING

HYDRAULICS SYSTEM FAULT

Set correct pressure on hydraulics.

Hose damage.

Air in the system.

UNABLE TO LOCK/UNLOCK THE REAR DOOR

Check if there is any grass left preventing the rear door from closing properly.

Check if the rear door is properly adjusted.

If unable to unlock, check if the locking arm is under pressure due to the bottom belt having moved before the lock was fully released.

ENSILING PUMP NOT WORKING

Check fuse for the ensiling pump.

Check that the valve is not closed.

If in use, check that the automatic start/stop switch is functioning properly.

Check if the pump has power, and check for possible wire breaks.

UNABLE TO DRIVE THE BOTTOM BELT

If the load is very wet (weighing over 10 tons), the bottom belt may have trouble moving it.

Also, check that the auxiliary motor is correctly connected and pulling in the same direction as the main motor.

UNABLE TO BEND THE DRAWBAR

Check that the brakes on the wagon are not activated.

If the wagon is empty and the acid tank is full, it may be too heavy to bend the drawbar. This can be solved by gently reversing the tractor to help start the "bending motion."

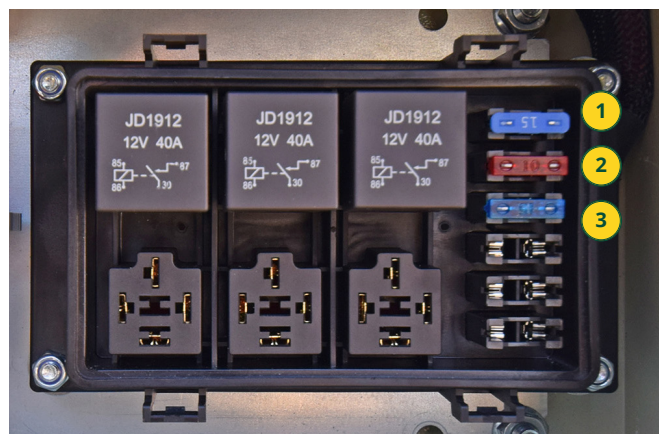
LIGHTS NOT WORKING

Check fuses

Check cables and connectors for damage

FUSES

1	Pump	15 A
2	Lights in trailer	10 A
3	Lights behind	15 A



FLOW-TABLE GP8 PHOENIX

Turns	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5
Litre/min	2,0	2,5	3,5	4,5	5,5	6,0	6,4	6,6	6,8



serigstad.no
ordre@serigstad.no
+47 46 85 46 65