



USER MANUAL



HG FEEDER 100/125/160 M

First Serial number and forward

Feeder 100M 100/2017 - >>>

Feeder 125M 124/2017 - >>>

Feeder 160M 068/2017 - >>>

HG
HEDENSTED
GRUPPEN

HG FEEDER 100/125/160 M

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1 Safety regulations

Read the manual

Read the instruction manual carefully, and make sure that anyone else who may be required to operate the machine reads it as well. Dangerous situations may arise if an operator is unfamiliar with certain aspects of the machine and its use.

WARNING! Hot parts



Never touch the engine or the exhaust pipe while the machine is running, or when the engine has just been switched off.

Hot parts can cause severe burns.

WARNING! Noise



We recommend the use of ear protectors. Long-term exposure to noise will damage your hearing.

WARNING! Moving parts



Make sure to keep your hands, feet, hair and clothes away from all moving parts. Never use the machine without the protective screens, etc. supplied.

Moving parts can cause serious injuries.

WARNING! Danger

When parking and performing service on the machine, make sure to switch off the engine, remove the ignition key and apply the handbrake.

The word **WARNING!** next to a text in the manual indicates that failure to follow the instructions may result in personal injury.

1.1 Training

- ◆ Read these instructions carefully. You need to familiarise yourself with all operation levers, switches, etc. and with how to use the equipment correctly.
- ◆ Do not allow children or anyone who has not studied the instructions to use the feeder. National legislation may lay down a minimum age for persons permitted to use the feeder.
- ◆ Remember that the operator is responsible for any and all accidents or potentially dangerous situations that may arise involving other people and/or their property.
- ◆ Operators must be instructed thoroughly in the use of the feeder. The instructions should emphasise:
 - 1) The need to be careful, thorough and focused when working with automotive machines.
 - 2) That the operator must maintain a good overview of what is happening in front of and behind the vehicle – particularly during feeding, when there may be other people in the immediate area.

The most common causes of accidents are:

- 1) Driving too fast, particularly with a full feed container
- 2) Taking turns too quickly, particularly when there is feed in the container
- 3) Lack of overview
- 4) The operator lacking sufficient familiarity with the vehicle
- 5) Excessive incline of the terrain

1.2 Preparation

- ◆ When operating the machine, make sure not to wear loose-fitting clothing that could become caught on nesting boxes, doorways, etc. In addition, make sure to wear non-slip footwear so that you can operate the pedals safely.
- ◆ Store fuel in containers approved for the purpose. Make sure to keep the containers out of the reach of children and unauthorised persons.
- ◆ Always refuel the machine outdoors. It is forbidden to smoke while refuelling.
- ◆ Always refuel before starting the engine. Never remove the cap from the fuel tank or attempt to refuel while the engine is hot or running.

- ◆ If you spill fuel, do not attempt to start the engine. Move the machine away from the place where you spilled the fuel so as to avoid igniting the spillage. If you spill fuel on the exhaust pipe or over the engine, wait until it has evaporated before starting the engine; otherwise there is a major risk of fire.
- ◆ If you spill diesel or motor oil on your skin, wash the area thoroughly with soap and water.
- ◆ It is hazardous to breathe in fuel or oil fumes.
- ◆ It is potentially fatal to ingest fuel or oil.

1.3 Noise and vibration levels



According to test report DANAK 100/1591 of 6 July 2012, the machine's noise level is 84 dB(A). Even though this is below the legally stipulated level, HG still recommends the use of ear protectors.

Hand/arm vibration level: 1.6 m/s²
Body vibration level: 0.6 m/s²

1.4 Operation

- ◆ The operator must wear a seatbelt while driving.
- ◆ If you use the machine indoors, you must make sure that the ventilation system is sufficient according to the regulations and recommendations that apply to the location.
- ◆ Do not let the engine run in small, enclosed rooms where there is a risk of hazardous carbon monoxide building up.
- ◆ **WARNING:** Breathing in carbon monoxide can cause poisoning and death.
- ◆ Never use the machine in locations where there is combustible dust or explosive gases, or where the exhaust pipe may come into contact with flammable material.
- ◆ Never place or store fuel or other flammable liquids close to the engine.
- ◆ As far as possible, only operate the feeder in daylight hours or use good artificial lighting.

- ◆ Do not rest your feet on the pedals when starting the engine – place them on the running board instead.
- ◆ Do not drive longitudinally along slopes, and never drive on slopes that exceed 15 degrees.

Machine incline: Max. 15°



- ◆ If the machine should tip over, hold on tightly to the steering wheel with both hands.
- ◆ Remember that the driving properties of the machine are very different with an empty and a full feed container. This is because the centre of gravity of the machine is much higher when the container is full.
- ◆ Never attempt to take sharp turns at high speed when there is feed in the container.
- ◆ For the best driving experience, operate the accelerator pedal with smooth movements of the foot. Remember that the speed of the machine increases proportionally with the movement of the accelerator pedal. This applies both when driving forwards and when reversing.
- ◆ When leaving the machine unattended, remember to apply the handbrake and remove the ignition key.
- ◆ Always stop the engine before carrying out any kind of service or repair work.
- ◆ Stop the engine and allow it to cool down before refuelling.
- ◆ Never touch the engine or the exhaust pipe while the engine is running.
- ◆ The machine is intended exclusively for feeding mink.

1.5 Maintenance

Wash the machine once a week. Make sure not to spray water directly onto electrical components or into the engine compartment.

Every time you refuel the machine, perform a visual check to ensure:

- ◆ That there are no leaks in the hydraulic system (hoses, tank, etc.).
- ◆ That there are no leaks in the fuel system (hoses, filters, tank, etc.).
- ◆ That all bolts, nuts, etc. are securely tightened.
- ◆ That the silencer is tight.
- ◆ That the radiator grille at the front and by the rotating flywheel is free from wool, etc.
- ◆ That no motor oil has been spilled around the motor oil filling aperture.
- ◆ That the accelerator pedal is not activated, and that the machine remains completely still when the pedal is released.

Check the air pressure in the tyres once a week and check the motor oil once a day.

1.6 Dismantling / Disposal

When, many years from now, the machine is worn out and has to be disposed of, HG will carry out the dismantling work by arrangement, as this work must be done in an environmentally friendly manner. During the dismantling process, the parts are sorted according to type of material. This means that steel parts are classed as steel, rubber seals as rubber, and so on. The various materials are then disposed of according to the regulations in effect at that time.

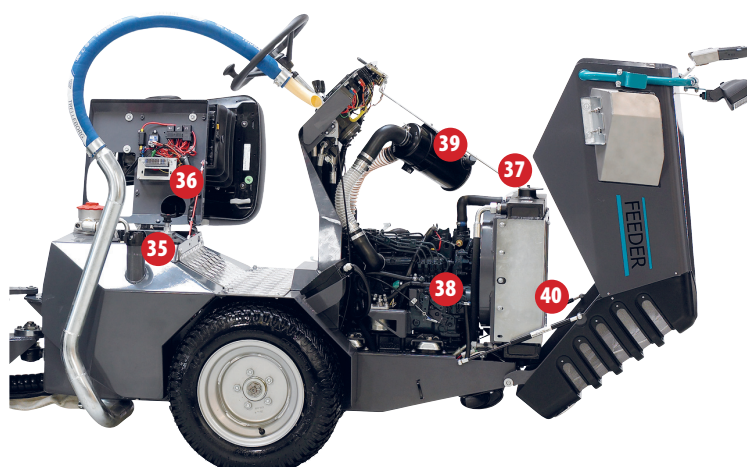
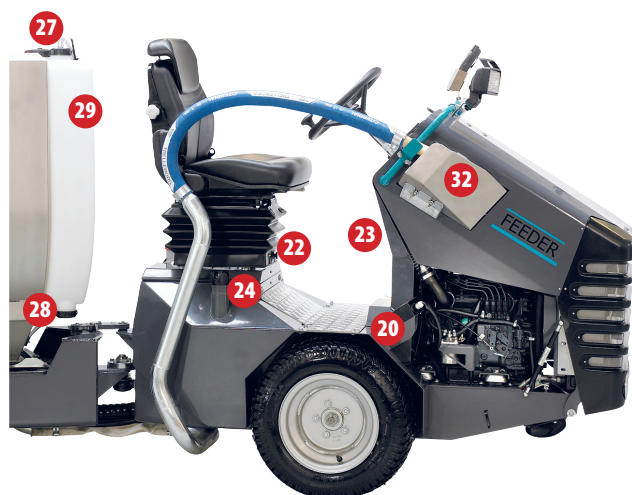
2 Description of function

Operator's panel



- | | |
|--|--|
| 1 Hand-held terminal for individual feeding (optional extra) | 10 Feed computer (optional extra) |
| 2 Work light | 11 Ignition switch |
| 3 Mixer speed | 12 Throttle lever |
| 4 Mixer rotation (forward / reverse) | 13 Revolution and hour counter |
| 5 Water dosage | 14 Water temperature gauge |
| 6 Bonnet | 15 Indicator light – preheater |
| 7 Feed pump control (manual / automatic) | 16 Indicator light – oil pressure |
| 8 Feed pump rotation (forward / reverse) | 17 Indicator light – water temperature |
| 9 Light switch | 18 Indicator light – battery charging |
| | 19 Hand brake |

The machine's functional units



- 20 Feed pedal
- 21 Operating pedal
- 22 Setting the operator's seat
- 23 Heater
- 24 Filling – diesel
- 25 Filling – hydraulic oil
- 26 Hydraulic oil filter
- 27 Filling – water
- 28 Draining – water
- 29 Adjustment of water dosage
- 30 Adjustment of feed pump speed

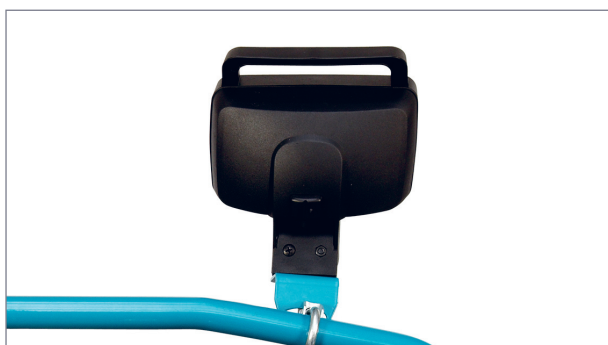
- 31 Main switch
- 32 Drip tray
- 33 Seat belt
- 34 Emergency stop
- 35 Battery
- 36 Fuse box
- 37 Filling – cooling water
- 38 Filling – motor oil
- 39 Air filter
- 40 Combi-cooler filter
- 41 Tow rope attachment point

2.1 Hand-held terminal for individual feeding (optional extra)



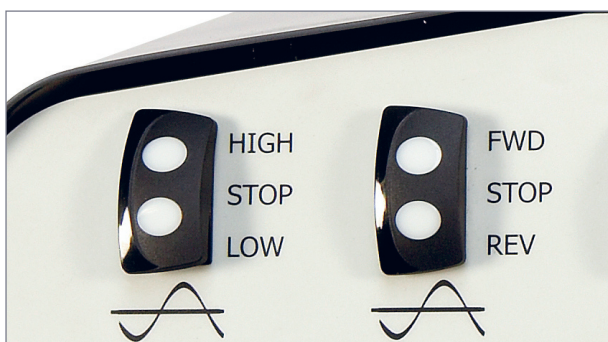
See the section about extra equipment on page 17.

2.2 Work light



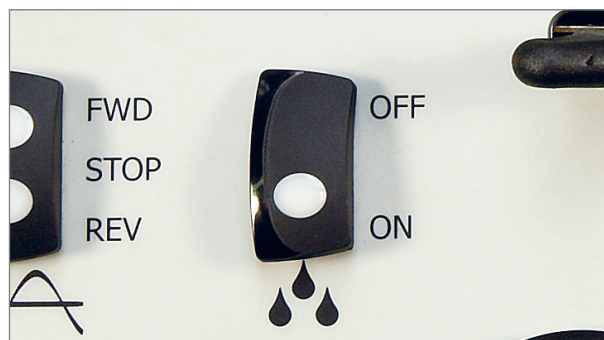
Make sure that you always have plenty of light to work by.

2.3 – 2.4 Mixer control



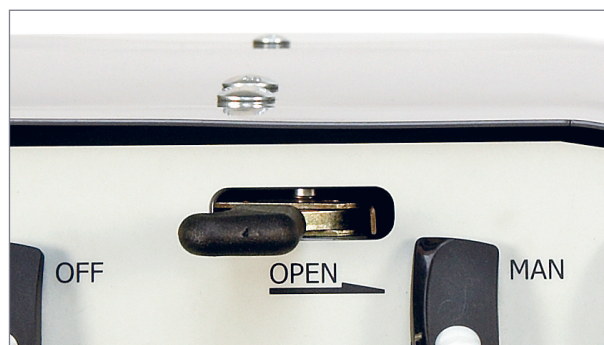
Use the switch on the left to select the rotation speed (high or low) for the mixer. Use the switch on the right to choose whether the mixer direction is to be forward (FWD) or reverse (REV). Turn the switches to their centre position to deactivate the mixer.

2.5 Water dosage



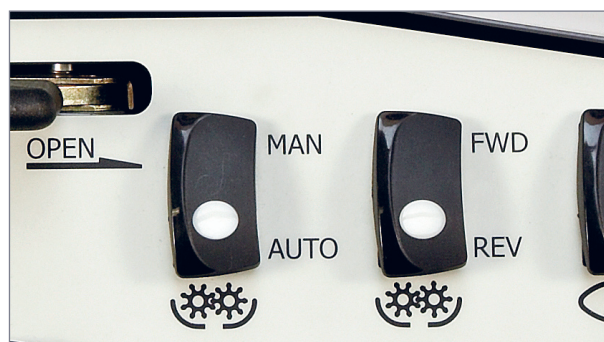
Use this switch to turn the water dosage on or off.

2.6 Opening the bonnet



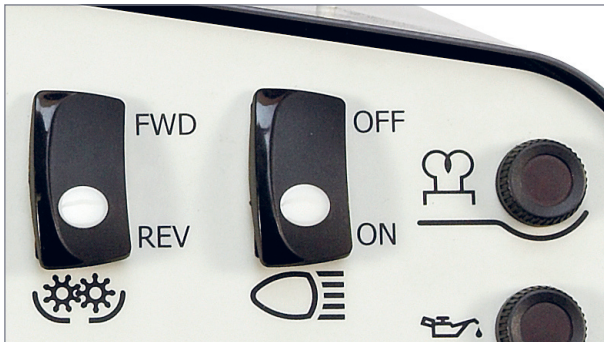
Turn the switch to the right to deactivate the bonnet locking mechanism.

2.7 – 2.8 Feed pump control



Use the switch on the left to set feed pump control to manual (MAN) or automatic (AUTO). Use the switch on the right to choose whether the feed pump is to run forward (FWD) or reverse (REV).

2.9 Light switch



The light switch is positioned on the right-hand side of the operator's panel.

2.12 Throttle level



The throttle lever is positioned to the right of the ignition switch.

2.10 Feed computer (optional extra)



You can use a feed computer to ensure a uniform volume of feed. See the section about extra equipment on page 17.

2.11 Ignition switch



The ignition switch features four positions:

0. Stop
1. Ignition
2. Preheat
3. Start

2.13 Revolution and hour counter



The hour counter (bottom centre) indicates how many hours the machine has run. Please note that it will continue to count as long as the machine is switched on. Therefore, remember to switch off the ignition and remove the key when you leave the machine.

If the hour counter breaks, make sure to have it repaired immediately. Otherwise, it will be impossible to keep track of when to change the oil, etc.

2.14 Water temperature gauge



NB Watch the temperature gauge to monitor the water temperature. If the warning light next to the gauge lights up, you must stop the machine immediately.

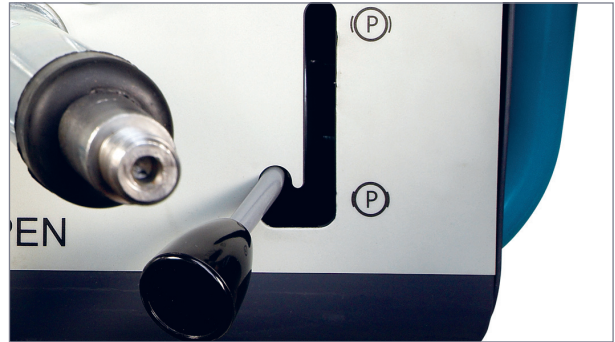
2.15 – 2.18 Indicator lights



To the far right on the operator's panel, there are four indicator lights with the following functions:

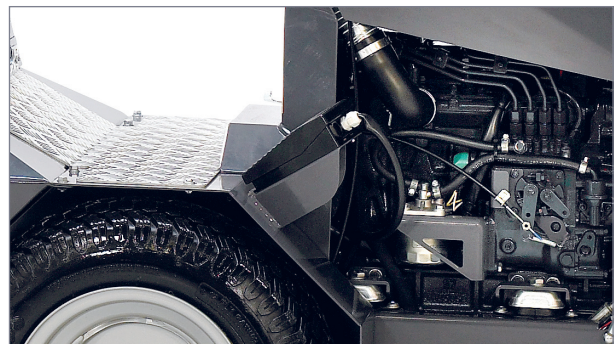
- 1) **Preheater light** – must switch off before you start the engine
- 2) **Oil indicator light** must switch off approx. 2 seconds after you start the engine. If it does not, turn the engine off immediately.
- 3) **Temperature warning light** – lights up if the engine overheats. If this indicator light illuminates, turn the engine off immediately.
- 4) **Charging indicator** – lights up during operation if the battery is not charging.

2.19 Hand brake



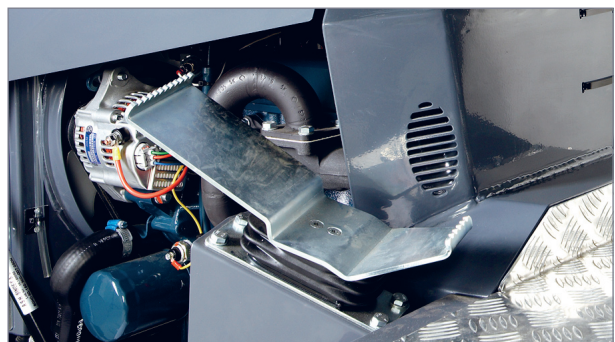
Always apply the handbrake before leaving the machine.

2.20 Feed pedal



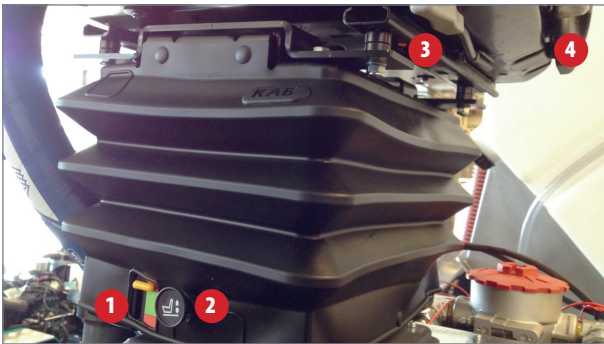
The feed pedal is located on the right-hand side of the machine. Activate the pedal every time you want to pump feed out.

2.21 Operating pedal



The operating pedal is located on the left-hand side of the machine. **NB:** Activate this pedal carefully, as the speed of the machine increases proportionally to the degree the pedal is depressed. This means that the further you press the pedal down, the faster the machine will move. For the best driving experience, operate the pedal with smooth movements.

2.22 Setting the operator's seat



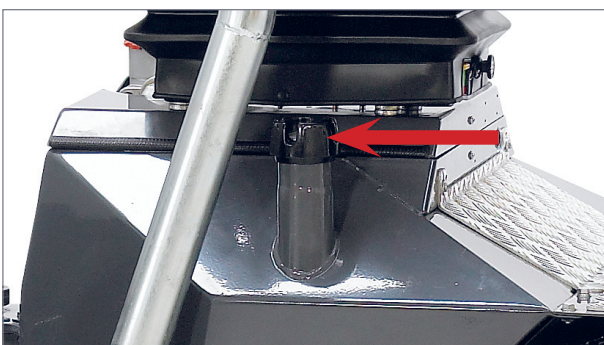
- 1) Indication of correct setting
When the yellow mark is in the green area, the seat has been adjusted correctly in relation to the operator's weight.
- 2) Hardness setting
- 3) Seat cushion setting
- 4) Backrest setting

2.23 Heater



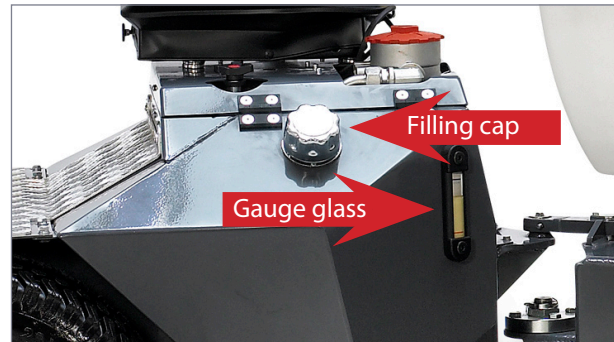
The heater is located below the operator's panel. To activate it, loosen the star handle and turn the disc.

2.24 Filling – diesel



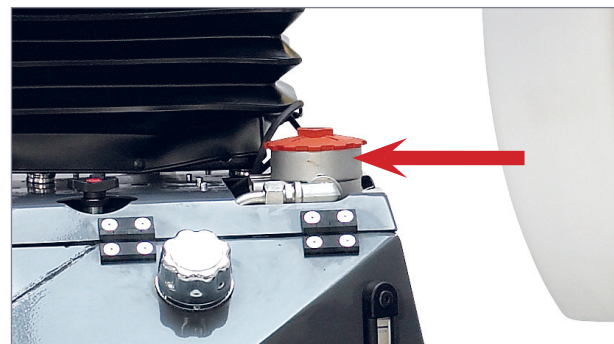
The fuel cap is positioned to the right of the operator's seat. Always check the tank to make sure there is sufficient diesel in it.

2.25 Filling – hydraulic oil



The hydraulic oil tank is positioned to the left of the operator's seat. Use the gauge glass to check the oil level visually.

2.26 Hydraulic oil filter



The hydraulic oil filter is positioned behind the operator's seat.

2.27–28 Filling / Draining – water



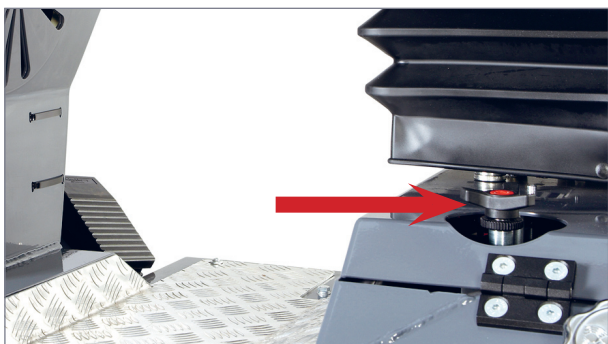
To fill water into the machine, pour it into the top of the water tank in front of the feed container. The drain valve is located on the bottom right-hand side of the water tank. **Please note** that the container volume indication is approximate.

2.29 Adjustment of water dosage



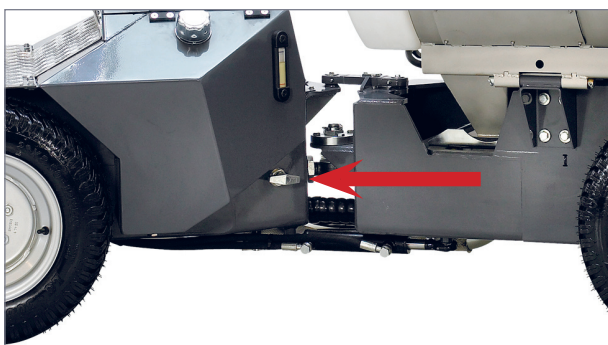
You can adjust the volume of water that is mixed with the feed when the feed pump is activated. The dosage adjuster is located on the centre of the water tank. Turn the tap to regulate the water volume. Clockwise: less water; anti-clockwise: more water.

2.30 Adjustment of feed pump speed



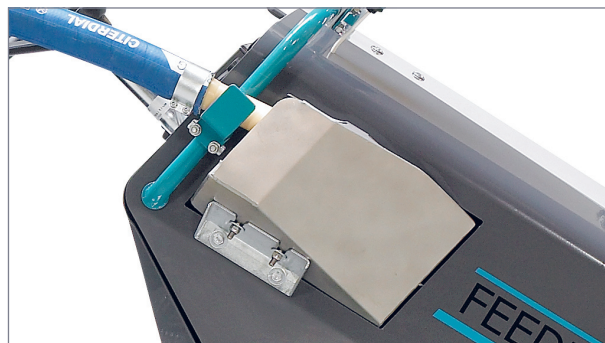
You can regulate the circulation speed of the feed pump so that more or less feed is supplied during a given period. The regulator is positioned to the left of the operator's seat.

2.31 Main switch



The main switch is located behind the tractor on the left-hand side.

2.32 Drip tray



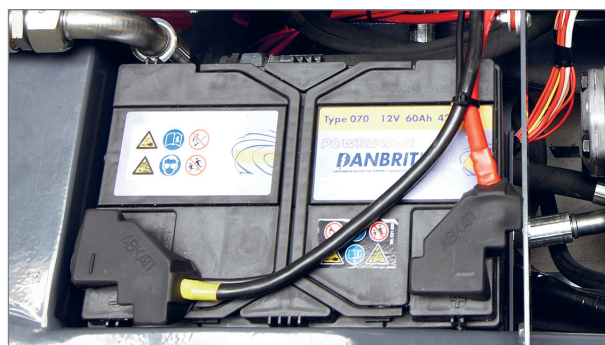
The drip tray for feed is located on the right-hand side of the bonnet.

2.34 Emergency stop



An emergency stop button is fitted on the back of the feed tank. To reset the system, pull the red button out. Then check that the bottom indicator is green and that the top line is between the arrows.

2.35 Battery



The battery is located under the operator's seat. Always keep the top of the battery clean, otherwise there is a risk that it will discharge.

2.36 Fuse box



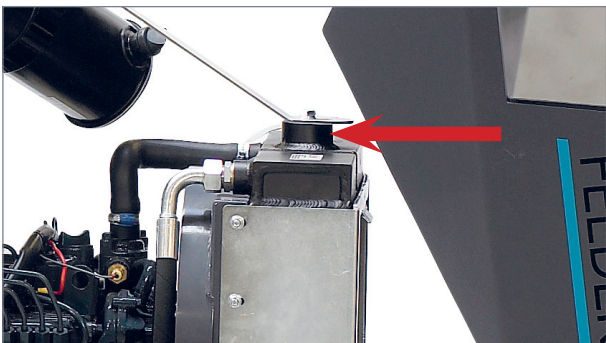
The fuse box is located under the operator's seat. Never use fuses larger than those originally fitted in the machine. When replacing fuses, see the electrical diagrams on pages 24–25.

2.39 Air filter



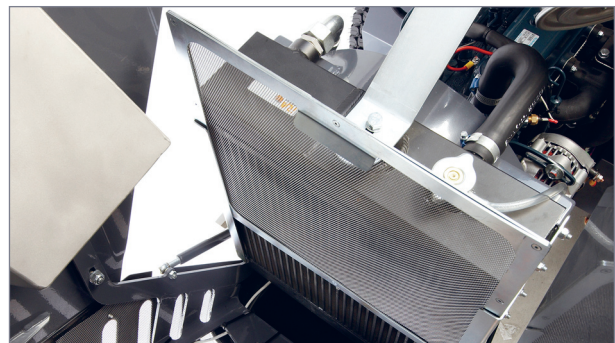
The air filter is also located under the bonnet. To replace the filter, remove the end cap and pull the insert out.

2.37 Filling – cooling water



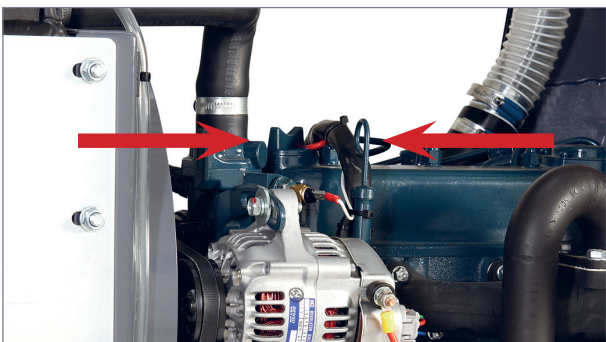
The radiator is located under the bonnet. **Please note** that the engine must be cold before you remove the radiator cap to refill with coolant. If the engine is hot, there is a risk of scalding.

2.40 Combi-cooler filter



The particle filter for the combi-cooler is located on the front of the machine. Open the bonnet and remove the filter when it is time to blow it clean.

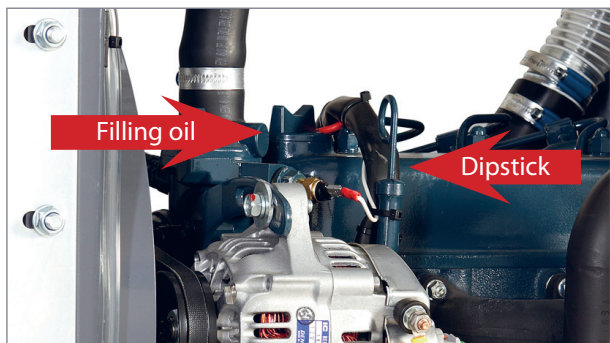
2.38 Filling – motor oil



Check the motor oil level daily. To do this, use the dipstick located next to the oil filler cap.

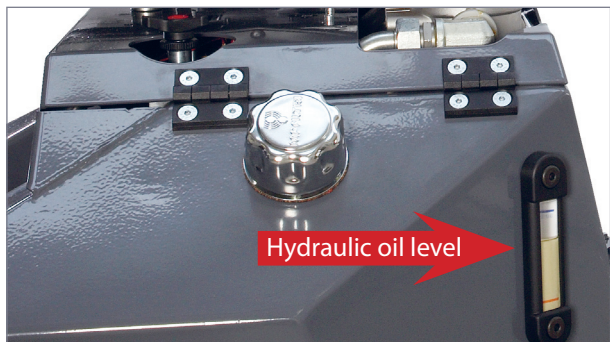
3 Precautions

3.1 Oil level, engine



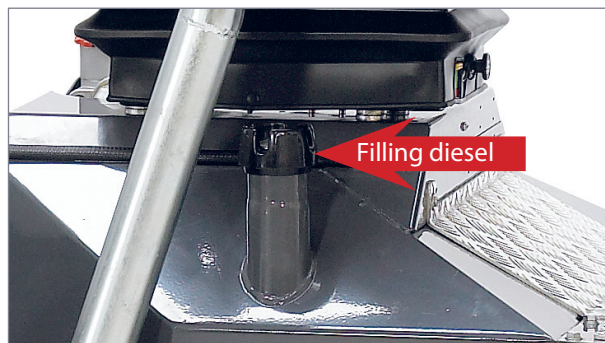
Every time you use the machine, check the oil level in the engine before starting it. Make sure the machine is standing on a level surface when you check the oil level. Pull the dipstick out and wipe it clean with a cloth. Replace it, remove it again and read the level. If the oil level is below or just over the minimum line, refill with oil up to the maximum line.

3.2 Oil level, hydraulic



Use the gauge glass to the right of the filler cap to check the level of hydraulic oil.

3.3 Fuel, filling



Use standard diesel oil for Feeder 100/125/160 M. Look in the tank to check the volume of fuel it contains. Diesel oil is normally frost proof to temperatures as low as -21°C . In sharp frosts, however, paraffin may form in diesel oil. To prevent this happening, you can add petroleum according to the following table:

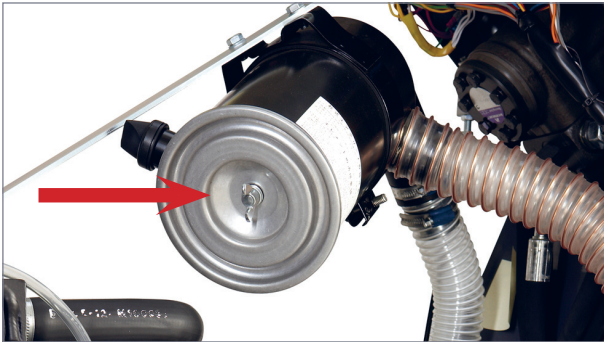
In temperatures below	Add
-10°C	10% petroleum
-20°C	25% petroleum
-30°C	40% petroleum
-40°C	55% petroleum

To be absolutely sure of the antifreeze level, we recommend that you ask your supplier for specifications for precisely the type of diesel you use.

WARNING

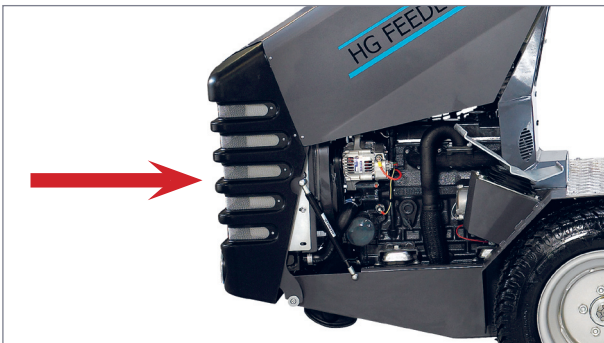
- Fuel is highly flammable. Be very careful, and always refuel outdoors.
- Newer smoke while refuelling.
- Newer refuel a hot engine. Wait at least 10 minutes for the engine to cool down.
- Do not overfill the tank as fuel can expand and spill over. Make sure that the cap is securely tightened after refuelling.
- Store fuel in a cool place, using containers designed for the purpose.
- Regularly check the fuel tank and hoses for leaks.

3.4 Air filter

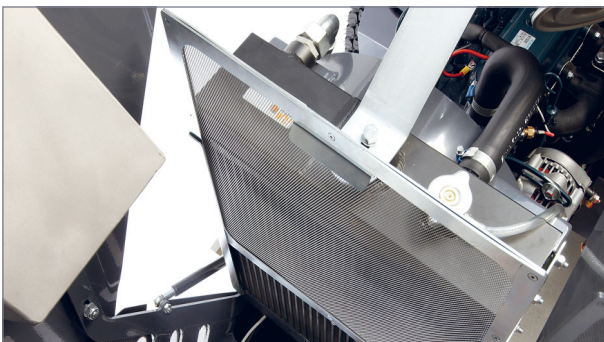


Make sure to keep the air filter clean. A dirty or clogged air filter will reduce the output of the engine, increase fuel consumption and cause more wear and tear to the engine.

3.5 Radiator grille/combi-cooler



IMPORTANT! You must keep the radiator clean because it functions as the air intake for cooling the engine. A fully or partially clogged grille will cause the engine temperature to rise, increasing the risk of engine problems/breakdown.



You can remove the particle filter in the radiator grille. Open the bonnet and remove the filter when it is time to blow it clean.

3.6 Tyre pressure



Check that the tyre pressure is correct. Incorrect tyre pressure can make the machine unstable and have an unpredictable effect on its manoeuvrability.

Lawn tyres (standard) no. 474746

Max.	65 PSI
Pressure	4.48 bar



Tractor tyres are available as an optional extra.

Tractor tyres no. 474760

Max.	67 PSI
Pressure	4.6 bar

4 Driving/feeding

4.1 Starting



Move the throttle lever to its top position. Turn the ignition key until the control lights illuminate. Check that they all light up. Now turn the key to the next position and hold it there until the preheater indicator light goes out. Then turn the key all the way to the final position and the engine will start.

WARNING

- The preheating should take no more than 10 seconds. If it takes longer than this, the preheater and the adjoining components may be damaged.
- Do not repeat preheating if the engine does not start first time.

4.2 Driving

Place both hands on the wheel and position your feet as far to the sides as possible. Open the throttle until you reach the desired number of revolutions. Then carefully press the accelerator pedal on the far left. The smoother the movements of your foot, the smoother the drive. We recommend that you do not drive the machine on soft land or on terrain approaching an incline of 15°.

WARNING

- Make sure that your feet and legs do not stick out so far from the machine that you risk bumping them against – or getting them caught on – cages, doorways, etc.
- You must only activate the pedals with your feet when sitting in the operator's seat – never activate them with your hands or while standing up.

Make sure not to take corners quickly, especially with a full feed container. If you do so, the machine can easily tip over as its centre of gravity is very high when the feed container is full.

We also recommend that you avoid driving the machine on terrain approaching an incline of 15°. Here, too, the machine will tip over very easily.

4.3 Feeding

Start by setting the feed pump speed and the water dosage (see page 12). You will normally only need to do this more than once if the consistency/water content of the feed varies.

Press the feed pedal on the far right once for each portion of feed you are to distribute.

When distributing feed, make sure to concentrate on the task at hand and maintain a good overview. Take care not to come too close to the fittings and furnishings. A lapse of concentration can easily result in the machine damaging cages, nesting boxes, etc.

4.4 Stop

Throttle back to neutral and let the machine run for a few minutes to allow the engine temperature to fall to normal operating temperature before you stop it. This will help extend the service life of the engine.

4.5 Parking



Always park on level ground and remember to activate the handbrake and remove the ignition key.

4.6 Feed computer for individual feeding (optional extra)



If you fit a feed computer you can, for example, set the machine to distribute 200 g of feed in each portion. The computer can do much more besides.

For instance, it can take the strain off your ankle as you only need to keep the feed pedal depressed rather than having to activate it for each portion of feed.



If you have a hand-held terminal for individual feeding, you can use it to read a barcode placed on each cage to define how much feed each animal is to receive.

This helps ensure that the animals receive the maximum amount of feed every day so you can make full use of their growth potential. It will also help you save around 2 hours a day during the growth period if you have a stock of 3,000 females.

5 Maintenance

5.1 Maintenance schedule

Activity		For every xx hours of operation						
		5	25	100	200	500	2500	5000
Check	Hydraulic oil level and leaks	●						
	Motor oil level	●						
	Water pump			●				
	Oil indicator light			●				
	Acid level in accumulator			●				
	Fan belt tightness			●				
	Engine rack			●				
	Coolant		●					
	Exhaust	●						
	Pre-filter in air filter box (sponge)	●						
	Air filter	●						
	Air intake and radiator grille	●						
Adjust	Neutral position			●				
	Brake cable			●				
	Throttle cable			●				
Lubricate	Feed pump		●					
	Mixer screw			●				
	Brake axles			●				
	Cables			●				
	Steering gear			●				
Tighten	Various bolts			●				
	Wheel hubs			●				
	Engine rack			●				
Clean	Air filter			●				
	Fuel tank			●				
	Radiator fins and air intake			●				
	Filter on front of radiator		●					
Replace	Motor oil *)		First		●			
	Hydraulic oil *)		First			●		
	Air filter				●			
	Hydraulic oil filter		First			●		
	Fuel filter				●			
	Motor oil filter		First		●			
Engine overhaul	Belts					●		
	Partial						●	
	Complete							●

First

= Replace when the machine hour counter has reached 25 hours.

*)

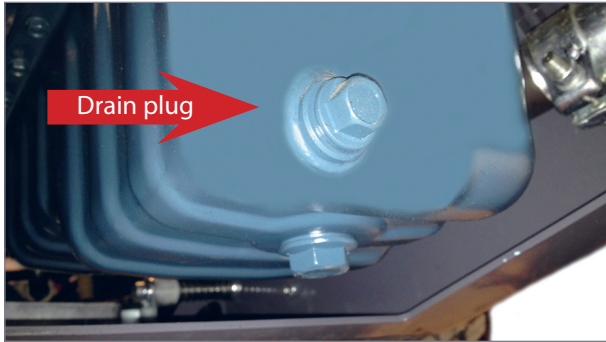
= Replace at least once a year

Check components according to the supplier's recommendations. Hedensted Gruppen stipulates that an authorised service technician must perform a major service on the machine after every 500 hours of operation or at least once a year. All maintenance must be performed by a trained mechanic, farmer or similar.

5.2 Changing the motor oil and oil filter

We recommend that HG performs this task.

Motor oil



Place a suitable container under the engine with sufficient capacity to hold the 4.5 litres or so of oil you drain from the engine. Remove the drain plug. Once the oil has drained, replace the drain plug and refill with clean oil.

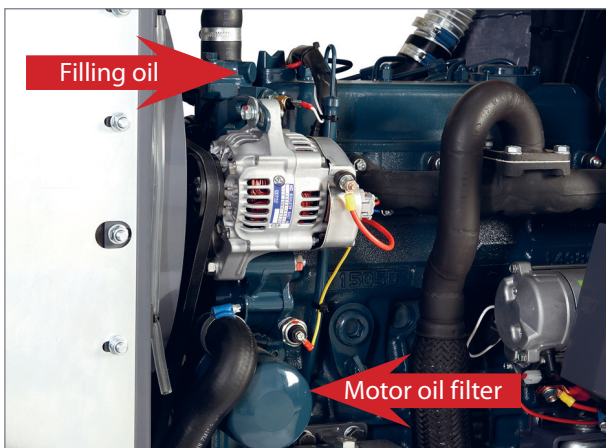
- ◆ Every time you unscrew the drain plug, you will need to replace the drain plug seal.

WARNING

- The motor oil can be very hot, so take care!

Oil filter

Remove the old oil filter and replace it with a new one.



Make sure that the area around the oil cap is clean before you remove it.

5.3 Changing the hydraulic oil and the hydraulic oil filter

We recommend that HG performs this task.

Hydraulic oil



Place a suitable container under the hydraulic oil tank and remove the drain plug. Please note that a large volume of oil will be released. Replace the drain plug once all the oil has drained out. Refill with clean hydraulic oil (volume: see the specifications on page 26).

WARNING

- The hydraulic oil can be very hot, so take care!

Hydraulic oil filter



Unscrew the filter cap, remove the filter and replace it with a new one.

Make sure that the filter cap and the surrounding area are clean before you remove it.

5.4 Replacing/cleaning the air filter



When it is time to clean or replace the air filter, remove the screw from the end of the filter housing and then pull the filter out. Tap it gently on the floor to remove the loose dirt.

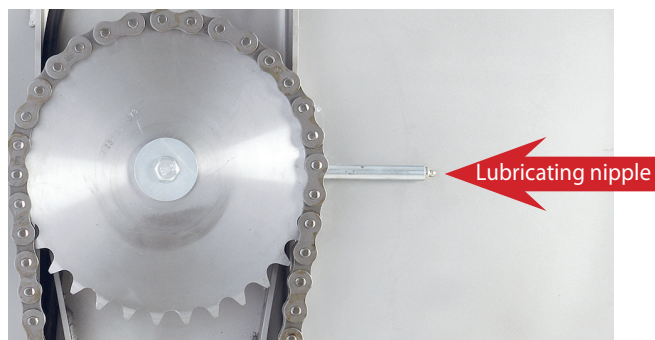


5.5 Lubrication

You can use standard high pressure grease for lubrication. Lubricating nipples are located:

- ◆ On the front and back steering cylinders
- ◆ In the feed pump
- ◆ In each steering joint between tractor and trailer
- ◆ At both ends of the mixer
- ◆ On the brake axle behind the front wheels

Mixer chain

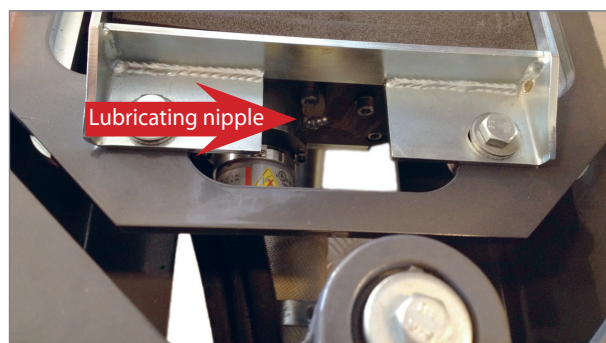


Use chain oil or grease to lubricate the chain that powers the mixer. Here, too, you will find a lubricating nipple.

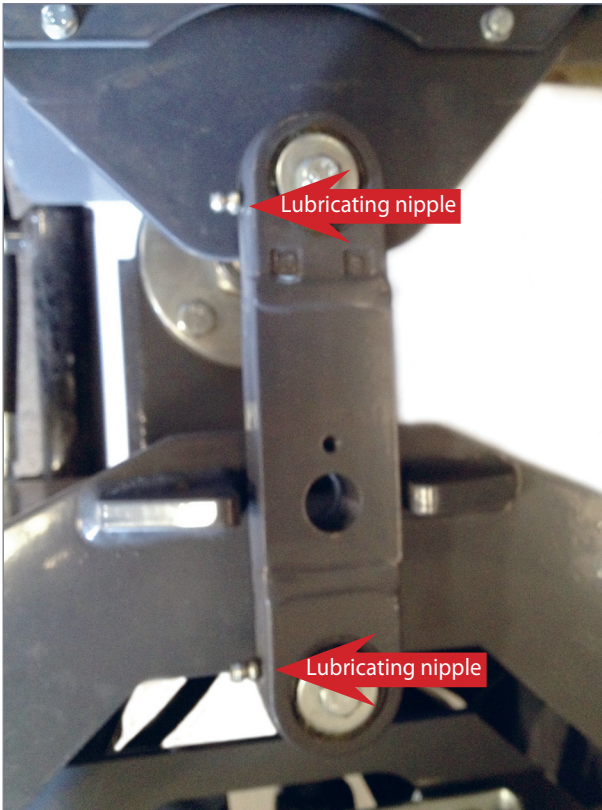
Steering cylinder



Feed pump



Steering joint between tractor and trailer



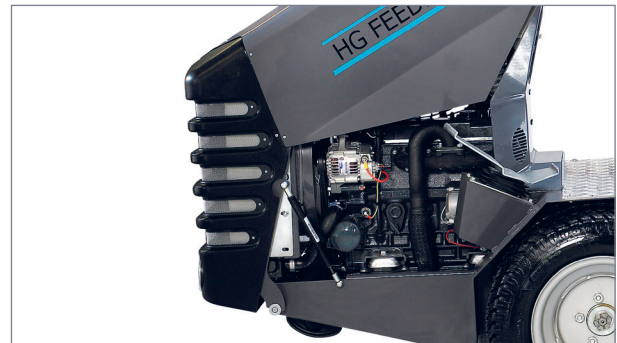
Brake axle



Mixer



5.6 Cleaning the combi-cooler



The radiator grille on the front of the machine must be kept clean of wool and dirt. Lift the filter up and clean it. Remove any dirt from the water and oil cooler.

DO NOT clean with a water hose or compressed air as this may damage the engine.

WARNING

- Turn off the engine and remove the ignition key before starting the cleaning work.

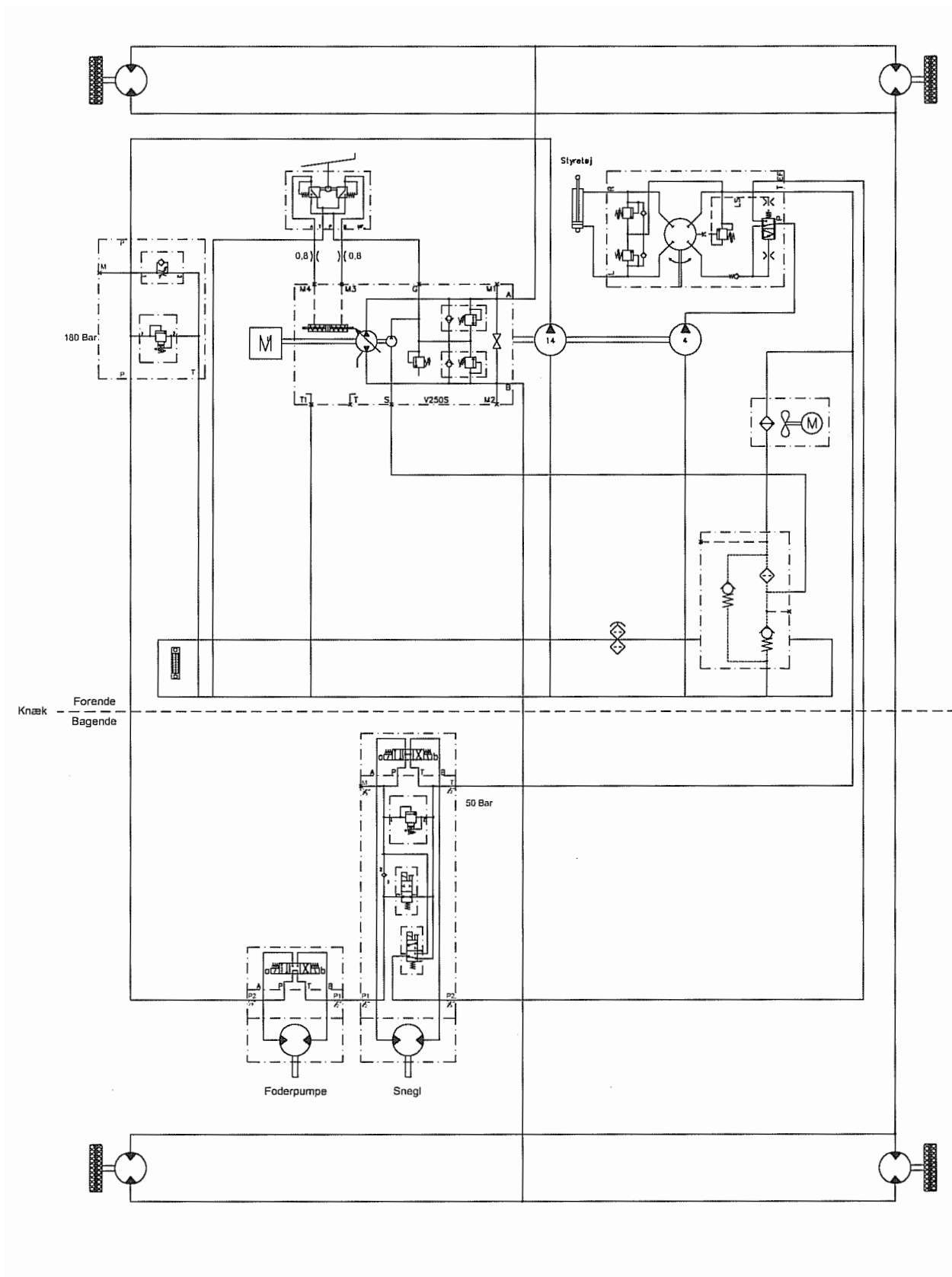
5.7 Protectors

It is only permitted to remove any of the protectors on the machine in connection with repairs or service procedures.

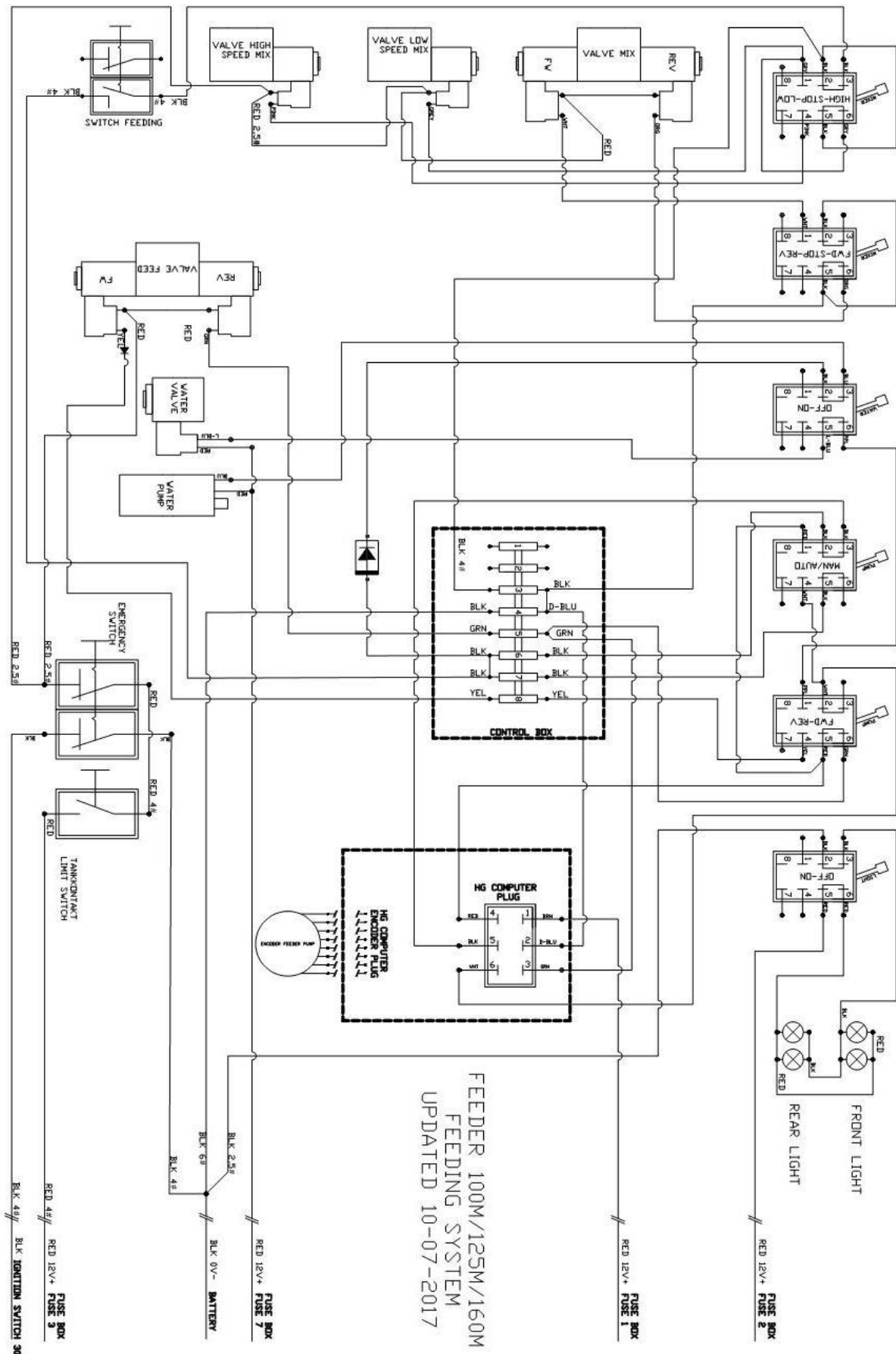
6 FAQ

Problem	Possible cause	
The engine does not start	<ul style="list-style-type: none"> Incorrect fuel Air in the fuel pump 	<ul style="list-style-type: none"> Empty fuel tank Excessive piston clearance Blocked ventilation in filler cap
The engine starts but then stops	<ul style="list-style-type: none"> Blocked air filter Air in the fuel pump Blocked fuel filter 	<ul style="list-style-type: none"> Defective or blocked fuel supply Blocked valve in fuel tank Burned out exhaust valve
No power from the engine	<ul style="list-style-type: none"> Blocked air filter Blocked fuel filter Worn cylinder 	<ul style="list-style-type: none"> Worn piston rings Defective or blocked fuel supply Burned out exhaust valve
Low oil pressure in the engine	<ul style="list-style-type: none"> Blocked lubrication circuit Worn oil pump 	<ul style="list-style-type: none"> Defective oil pressure valve Defective main bearing
Engine blocked	<ul style="list-style-type: none"> Main bearing burned out or defective 	<ul style="list-style-type: none"> Pistons burned out Hydraulic pump blocked
Engine produces blue exhaust (diesel)	<ul style="list-style-type: none"> Worn valve guide Worn cylinder 	<ul style="list-style-type: none"> Too much oil in crankcase Worn piston rings
Engine produces white exhaust (diesel)	<ul style="list-style-type: none"> Excessive piston clearance 	<ul style="list-style-type: none"> Incorrect injection timing
Engine produces black exhaust (diesel)	<ul style="list-style-type: none"> Overload 	<ul style="list-style-type: none"> Injection error
Engine knock in the crankcase	<ul style="list-style-type: none"> Small or big end bearings burned out or defective 	
Engine knock in the tappet	<ul style="list-style-type: none"> Incorrect fuel Insufficient piston clearance 	<ul style="list-style-type: none"> Incorrect injection timing Worn piston rings
Engine consumes a lot of oil	<ul style="list-style-type: none"> Worn valves Worn cylinder Leaky oil seals 	<ul style="list-style-type: none"> Too much oil in crankcase Worn piston rings
Motor oil level rises	<ul style="list-style-type: none"> Excessive piston clearance 	<ul style="list-style-type: none"> Defective injection system
Engine losing oil	<ul style="list-style-type: none"> Blocked breather pipe 	<ul style="list-style-type: none"> Defective injection system
Engine overheats	<ul style="list-style-type: none"> Insufficient piston clearance Blocked radiator fins Incorrect injection timing 	<ul style="list-style-type: none"> Defective injection system Overloaded engine
Engine misfires	<ul style="list-style-type: none"> Incorrect fuel Cold engine Blocked radiator fins 	<ul style="list-style-type: none"> False air via the injection pump Defective injection system
Poor acceleration	<ul style="list-style-type: none"> Incorrect fuel 	<ul style="list-style-type: none"> False air via the injection pump

7 Hydraulic diagram



7 Electric circuit diagram



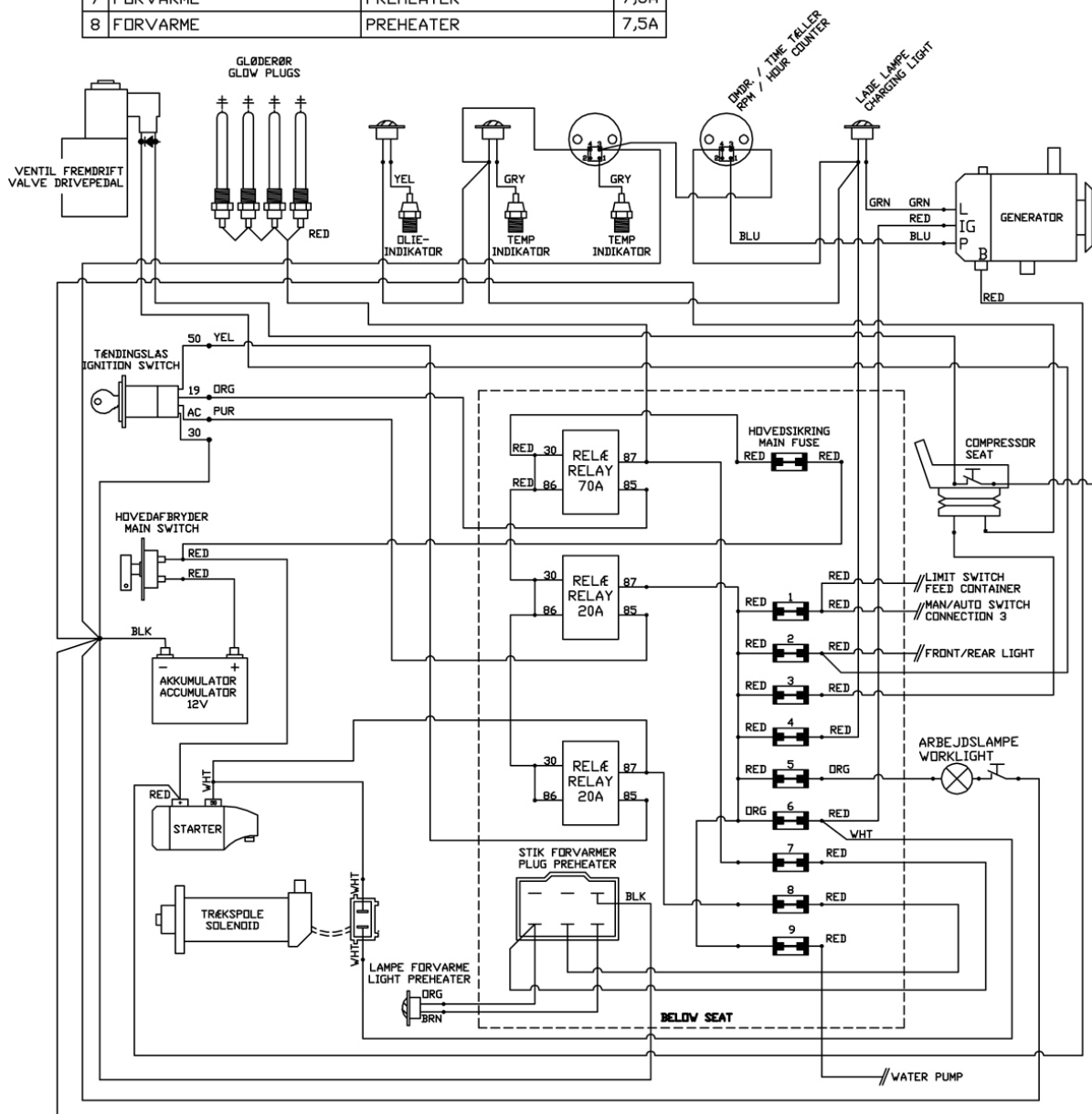
7 Electric circuit diagram

SIKRINGER / FUSES			
NR	BESKRIVELSE	DISCRIPTION	A
	HOVEDSIKRING	MAIN FUSE	80A
1	FODERSYSTEM	FEEDING SYSTEM	15A
2	LYS FOR/BAG	LIGHT FRONT/REAR	7,5A
3	KOMPRESSOR SÆDE	COMPRESSOR SEAT	15A
4	KONTROLLAMPER	KONTROLLAMPER	7,5A
5	ARBEJDSLAMPE	WORKLIGHT	15A
6	TRÆKSPOLE-GENERATOR	SOLENOID - GENERATOR	7,5A
7	FORVARME	PREHEATER	7,5A
8	FORVARME	PREHEATER	7,5A

FARVEKODER - COLORCODES.

BLK - SORT / BLACK
 BLU - BLÅ / BLUE
 BRN - BRUN / BROWN
 GRN - GRØN / GREEN
 GRY - GRÅ / GRAY
 ORG - ORANGE
 PNK - LYSERØD / PINK
 PPL - LILLA / PURPLE
 RED - RØD / RED
 VHT - HVID / WHITE
 YEL - GUL / YELLOW

FEEDER 100M/125M/160M
 UPDATED 23-04-2013



8 Technical data

8.1 HG Feeder 100/125/160 M

Dimensions and weight	Feeder 100 M	Feeder 125 M	Feeder 160 M
Width	90 cm	90 cm	90 cm
Length	360 cm	390 cm	430 cm
Height	156 cm	156 cm	161 cm
Net weight	1,050 kg	1,150 kg	1,350 kg

Engine	Feeder 100 M	Feeder 125 M	Feeder 160 M
Kubota V1305	34 hp (26 kW)	34 hp (26 kW)	34 hp (26 kW)
Capacity	1,335 cm ³	1,335 cm ³	1,335 cm ³
Bore x stroke	76 x 73.6 mm	76 x 73.6 mm	76 x 73.6 mm

Miscellaneous fluids	Feeder 100 M	Feeder 125 M	Feeder 160 M
Motor oil	Q8 7520 15W-40 (or better)	Q8 7520 15W-40 (or better)	Q8 7520 15W-40 (or better)
Hydraulic oil	Q8 Handel 46	Q8 Handel 46	Q8 Handel 46
Fuel	Diesel	Diesel	Diesel

Tanks and containers	Feeder 100 M	Feeder 125 M	Feeder 160 M
Feed tank	1,000 litres	1,250 litres	1,600 litres
Water tank	85 litres	85 litres	85 litres
Diesel tank	29 litres	29 litres	29 litres
Hydraulic tank	35 litres	35 litres	35 litres

Wheel dim. / tyre pressure	Feeder 100 M	Feeder 125 M	Feeder 160 M
Wheel dimensions	23 x 8.50-12	23 x 8.50-12	23 x 8.50-12
Tyre pressure	65 PSI	65 PSI	65 PSI

Steering gear	Feeder 100 M	Feeder 125 M	Feeder 160 M
Steering	Servo	Servo	Servo
Turn diameter (circumscribed circle)	5.7 metres	6.3 metres	6.6 metres

9 Warranty conditions

Warranty period

Hedensted Gruppen provides a 12-month warranty (max. 1,000 operating hours) as from the date of delivery.

The warranty covers

- ◆ Components that have to be repaired or replaced on account of material defect or manufacturing error.

The warranty does not cover wearing parts and consumables such as:

- ◆ Feed pumps, tyres, light bulbs, filters, oil and so on.

The manufacturer's warranty shall be terminated in the event that

- ◆ The machine is used incorrectly.
- ◆ The machine is used without the operator complying with the information in the instruction manual and safety regulations.
- ◆ The timings in the service schedule are not observed, or if obsolete parts such as filters are used.
- ◆ The machine is used after a fault or defect has been identified, and the resulting repair is more expensive than the cost of repairing the original fault.

The owner's own insurance should cover:

- ◆ Fire, break-in, theft and vandalism
- ◆ Water and frost damage
- ◆ Corrosion damage caused by battery acid
- ◆ Damage caused by the weather

These are not covered by the manufacturer's warranty.

Approval of claims for compensation

Approval from the manufacturer of claims for compensation is conditional upon the defective part(s) being presented to the manufacturer or the manufacturer's representative within two (2) weeks of the damage being identified. The right of ownership to the damaged part(s) shall be transferred to the supplier of the new part(s).

Only components can be replaced under the warranty, which therefore does not cover

- ◆ Freight costs.
- ◆ Costs in connection with waiting time, the machine owner's working hours and travel expenses.
- ◆ Loss of earnings and other consequential expenses.

Other information

Before repairs under warranty, the manufacturer must be contacted to agree on the procedure. If the repair work has been initiated or completed, the cost of same cannot be claimed against the warranty.

The present warranty conditions can only be amended through a separate agreement.

WARRANTY CERTIFICATE

Version _____

Type/Chassis no. _____

Model/year _____

Delivery date _____

Seller/fitter _____

Company _____

Address _____

Signature _____

First owner _____

Address _____

Telephone no. _____

Second owner _____

Address _____

Telephone no. _____

Special conditions _____

The warranty certificate is to be filled in by an HG fitter no later than in connection with the first service (50 hours).

10 Service documentation

Service no. 1

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 4

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 2

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 5

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 3

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 6

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

10 Service dokumentation

Service no. 7

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 10

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 8

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 11

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 9

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

Service no. 12

Service completed

Number of hours _____

Date _____

Work order no. _____

SIGNATURE

11 Spare parts list and appendice

11.1 Commonly used parts

Item no.	Feeder 100/125/160 M
474760	Tractor tyres (only Feeder 100/125 M)
474746	Lawn tyres (only Feeder 100/125 M)
476710	Motor oil, 20 litre container
476722	Hydraulic oil, 20 litre container
424533	Filter insert for hydraulic oil
468025	Air filter insert
468030	Motor oil filter
468035	Fuel filter
468040	Fan belt
475507	Work light

12 EU Declaration of conformity

Hedensted Gruppen A/S
Vejlevej 15
DK-8722 Hedensted
Tel. (+45) 75 89 12 44
Fax (+45) 75 89 11 80
www.hedensted-gruppen.dk

hereby declares that:

HG Feeder 100 M
HG item no. 250066

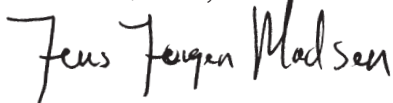
conforms with

The Machine Safety Directive 2006/42/EC

**under application of the following
harmonising standards:**

DS/EN 12100-1:2005
DS/EN 13857:2008

Hedensted, 31 May 2012



Jens Jørgen Madsen
CEO

Hedensted Gruppen A/S
Vejlevej 15
DK-8722 Hedensted
Tel. (+45) 75 89 12 44
Fax (+45) 75 89 11 80
www.hedensted-gruppen.dk

hereby declares that:

HG Feeder 125 M
HG item no. 250068

conforms with

The Machine Safety Directive 2006/42/EC

**under application of the following
harmonising standards:**

DS/EN 12100-1:2005
DS/EN 13857:2008

Hedensted, 31 May 2012



Jens Jørgen Madsen
CEO

Hedensted Gruppen A/S
Vejlevej 15
DK-8722 Hedensted
Tel. (+45) 75 89 12 44
Fax (+45) 75 89 11 80
www.hedensted-gruppen.dk

hereby declares that:

HG Feeder 160 M
HG item no. 250070

conforms with

The Machine Safety Directive 2006/42/EC

**under application of the following
harmonising standards:**

DS/EN 12100-1:2005
DS/EN 13857:2008

Hedensted, 30 June 2013



Jens Jørgen Madsen
CEO

[illegible]



HG
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