



For Your Own Safety

In this enclosure to the operating instructions you will find some general rules of conduct explaining how to operate the implement correctly - and some safety advice which we advise you to observe for your own safety!

The list is very extensive, and some of the advice does not specifically relate to the implement supplied. However, the summary of advice is to remind you of safety guidelines which are often unconsciously ignored when operating the machines and implements on a daily basis.

1. Authorized Use

The implement has been specifically built to perform standard operations pertaining to agricultural work (authorized use).

Any type of usage outside of these parameters is deemed to be improper usage. The manufacturer accepts no responsibility for damage resulting from such usage, and the risks are to be borne solely by the user.

Within the bounds of authorized usage it is also necessary to adhere to the manufacturer's prescribed operational, maintenance and service conditions.

The implement may only be used, maintained or serviced by people who are familiar with such an implement and aware of the risks involved. Please also ensure that all safety instructions are passed on to other users.

It is important that any and all relevant accident prevention regulations and any other generally recognized safety, industrial hygiene and road traffic regulations be observed.

Modifications to the implement made by the user will void any liability on the part of the manufacturer for any resulting damage.

2. General Safety Advice and Accident Prevention Regulations

- Before starting up your implement and tractor, please check that it is roadworthy and operatively safe.
- Please observe all generally valid safety and accident prevention regulations.
- The warnings and signs found on the implement are there to provide essential data needed to operate the unit safely. Please observe these for your own safety.
- When using public roads always follow the relevant traffic regulations.
- Before commencing work, ensure that you are familiar with all devices and operating controls as well as with the functions these perform. It is too late to do so once the implement is in operation!
- Operators should wear tight-fitting clothing. Try to avoid wearing loose clothing wherever possible!
- The machine should be kept clean to prevent the risk of fire!
- Check the immediate surroundings before driving off and putting the machine into operation! (Beware of children!) Ensure that you have sufficient visibility!
- Riding on the equipment during work or transportation is not allowed!
- Implements should be correctly coupled and only secured to the specified appliances.
- Special care is to be taken when coupling and uncoupling implements to or from the tractor.
- When coupling and uncoupling supports, always position them correctly. (Stability)
- Always ensure that weights are only added correctly to the specified mounting points.
- Observe all permissible axle loads, total weights and transportation dimensions.
- Check and mount transportation equipment such as lighting, warning devices, and guards, if necessary.
- Ensure that the release ropes used for rapid coupling and uncoupling hang loose and do not automatically release when in a low position.
- Never leave the operating platform when in transit.

- Road, steering and braking performance will be influenced by mounted or attached implements and ballast. Therefore make sure that you have sufficient steering and brake capability.
- Account for the width of the implement and its working load when taking corners.
- Only operate implements once all the safety devices/guards have been mounted and are in protection mode.
- Keep clear of working areas at all times.
- Keep clear of rotating and swinging parts on the implement.
- Ensure the swinging parts are clear of bystanders before operating any hydraulic folding frames.
- Power-steered parts (e.g. hydraulics) can cause crushing or amputation!
- On high-speed implements with ground-driven implements beware of after-running swinging parts! Only approach once the implement is at a complete standstill!
- Before leaving the tractor, lower the implement to the ground, switch off the engine and remove the ignition key!
- Do not allow anyone to stand between the tractor and the implement without first having secured the vehicle against running away by putting on the handbrake and/or using wheel chocks.
- Ensure that the folded-in frames and lifting equipment are securely in transportation position.
- Fold in and lock the packer catching arms before transporting on roads.
- Lock the marker arms to transportation position.

2.1 Coupled Implements

- Before coupling or uncoupling an implement to the three-point linkage, position the operating device in such a way as to prevent unintentional lifting or lowering.
- When using the three-point linkage it is vital that the coupling configurations of the tractor and implement correspond or are co-ordinated.
- There is a risk of injury through crushing or amputation near the three-point linkage.

- When using the external controls to operate the three-point linkage, keep clear of the area between the tractor and the implement.
- When the implement is in transportation position, always ensure that the tractor's three-point linkage is sufficiently locked at the side.
- When transporting a raised implement on public roads ensure the control lever is locked in place to prevent accidental lowering.

2.2 Mounted Implements

- Secure the implement to prevent it from running away.
- Observe the max. permissible bearing loads for the trailer coupling, swinging drawbar or hitch.
- If a drawbar trailer is used, ensure that there is sufficient manoeuvrability at the towing point.

2.3 PTO Drive (applies only to PTO-driven implements)

- Only use the drive shafts specified by the manufacturer.
- A pipe shield and protective bell must be mounted on the drive shaft as well as a PTO guard – also possible on the implement - and must be in perfect working order.
- Ensure the specified pipe covers are used on the drive shafts when in transportation and working position.
- Only couple and uncouple the drive shaft once the PTO has been disengaged, the engine switched off and the ignition key removed.
- Ensure that the drive shaft is mounted and secured correctly at all times.
- Secure the drive shaft guard by locking the chains in place to prevent them from turning.
- Before engaging the PTO make sure that the PTO speed chosen on the tractor complies with the permissible speed of the implement.
- When using ground speed power take-off ensure that the speed is regulated by the travel speed and that the direction of rotation changes when reversing.

- Before engaging the PTO make sure that the area of danger around the implement is free of bystanders.
- Never engage the PTO when the engine is switched off.
- When working with the PTO, keep the area around the rotating PTO and drive shaft clear of any bystanders.
- Always disengage the PTO where the bends are too big and it is not needed.
- Caution! Beware of after-running gyrating loads after disengaging the PTO! Do not stand too close to the implement during this time. Only begin working on it once it has come to a complete standstill. It is essential that you switch off the engine and remove the ignition key.
- Before cleaning, greasing or adjusting a PTO-driven implement or its drive shaft, always disengage the PTO, switch off the engine and remove the ignition key.
- Place the uncoupled drive shaft on the specified support.
- Cover the stump of the PTO with a protective cover after dismounting the drive shaft.
- Any damage which may arise should be repaired immediately. Never work with a damaged implement.

2.4 Hydraulic Equipment

- Hydraulic equipment is under very high pressure.
- When connecting hydraulic cylinders and motors ensure that the hydraulic hoses are connected as specified.
- When connecting hydraulic hoses to the tractor's hydraulics ensure that the hydraulics are depressurized on the tractor and the implement.
- Where it is necessary to connect hydraulic functions between the tractor and the implement, the coupling sockets and plugs should be marked to prevent faulty operation. Mixing up the connections will reverse the functions (e.g. lift/lower) - **Risk of injury!**
- Check the hydraulic hose connections at regular intervals and replace if damaged or aged. The replacement hydraulic hoses must comply with the technical requirements stipulated by the implement manufacturer.
- When looking for leaks, use suitable aids and resources to prevent injury.

- Liquids that leak at high pressure (hydraulic oil) can penetrate the skin and cause serious injury! In the event of injury, consult a doctor immediately. Risk of infection!
- Before working on hydraulic units, lower the implement, depressurize the system, switch off the engine and remove the ignition key.

2.5 Brakes and Tyres

- Check that the brakes are functional before every journey.
- Thorough checks are to be performed on the brake systems at regular intervals.
- Adjustments or repairs to the brake system may only be performed by qualified staff or recognized brake service centres. Only use the prescribed brake fluid and replace as specified.
- When working on the tyres please ensure that the implement has been securely parked and cannot run away (wheel chocks).
- Fitting tyres requires having sufficient training and the correct fitting tools.
- Wheel and tyre repairs may only be performed by qualified staff using the correct fitting tools.
- Check the air pressure at regular intervals observing the prescribed air pressures given.

2.6 Maintenance

- Service, maintenance and cleaning work as well as the elimination of malfunctions should only be carried out once the drive unit has been switched off and the engine has come to a standstill. Remove the ignition key.
- Check that the nuts and bolts are snug, and tighten as necessary.
- When carrying out maintenance work on a raised implement always secure using suitable support elements.
- When replacing bladed working tools use the appropriate tools and gloves.
- Dispose of all oils, grease and filters in a due and proper manner.
- Always disconnect the power supply before working on electrical equipment.

- When performing electrical welding work on a tractor with a mounted implement disconnect any cables connected to the generator and the battery.
- Gas tanks must only be filled using nitrogen to avoid risk of explosion.!
- Spare parts must at a minimum comply with the technical requirements given by the manufacturer of the implement. We therefore recommend that for your own safety you **use original parts only!**

2.7 Additional Hints and Tips: Mechanical Seed Drills

- Danger! Beware of rotating and oscillating machine parts when performing a calibration test.
- Only use the tread plates for filling purposes. Riding on the machine during operation is prohibited.
- When transporting on public roads protect or remove the thrust collars on the pre-emergence marking.
- When filling the seed hopper, observe the information provided by the implement manufacturer.
- Lock row markers in transportation position.
- Do not place any foreign parts in the seed hopper – the agitating shaft also rotates during manoeuvring.
- Observe the permissible filling quantities.