

Safety

The KEENAN MechFiber® Mixer Wagon has many safety features built into its design but ultimately, safe operation requires the vigilance of the operator and an understanding of potential safety hazards. The machine is designed to be used as a mixer/chopper wagon for mixing animal feeds. It should not be used for any other purpose which will affect its performance or safety.

The following safety points are general guidelines. Given the wide variety of possible operating conditions other safety risks may exist which are not captured in the list over.

1. Always park the mixer wagon on level ground and apply the handbrake when not in use.
2. Do not exceed 15 km/h (10 mph) when in use/transit. Local road traffic laws will apply when machine is in transit on public road, on which the maximum permissible speed is 25 km/h. Exceeding this will compromise the life and safety of major components such as the hitch, axle, wheels and chassis.
3. Exercise extreme caution for possible overtaking traffic at either side when turning.
4. Do not stand on the ladder whilst the feeder is in transit. The mixer wagon should never be used for the transport of people, animals or objects.
5. Do not stand between the tractor and mixer wagon while it is in use.
6. Use only a PTO shaft with a properly fitted safety guard and correct shear bolt.
7. Always connect the PTO shaft with the shear bolt end to the machine. The operating speed of the PTO is 540 rpm and the direction of rotation is marked on the front cover. Always use a well maintained PTO shaft and keep the safety covers in good condition.
8. Ensure all trailing leads, hoses, etc. are well clear of the PTO.
9. Never operate the PTO in 'ground speed mode' or drive the PTO in reverse.
10. Make sure all covers/guards are fitted and closed correctly. Never remove guards when the mixer wagon is connected to the tractor. Ensure that the engine of the tractor is stopped and PTO shaft disconnected before carrying out service or maintenance work and especially if removing trapped objects from the machine.
11. Ensure the mixer wagon and the immediate area surrounding it is clear of people, especially children, before commencing operation. Ensure that there is sufficient visibility for the operator to observe all danger zones and that the tractor is equipped with mirrors to enable the operator to see both sides of the machine while it is in operation.
12. When connecting the tractor to the mixer wagon only connect using the ring hitch/hitch on the mixer wagon to ensure safe coupling. Ensure that the hitch is connected properly to the tractor and that all pins and clips are properly installed. Then connect the PTO shaft in the correct fashion. Connect the hydraulic hoses ensuring that the functions match the indicated valve on the tractor.
13. When disconnecting always ensure that a stand or jack is used to secure the mixer wagon in the park position and ensure that the handbrake is properly applied. Before driving the tractor away from the mixer wagon ensure that all hoses and cables are disconnected.
14. Load only from the side indicated on machine (auger chamber side), using suitable equipment.
15. Standing level with or above the machine in order to load manually is not permitted. Loading should only be carried out with suitable equipment.
16. Regularly inspect all chains (at least weekly), sprockets and moving parts for wear and check all nuts and bolts for tightness.

17. The ladder on the rear of the mixer wagon is to be used as a viewing point for the mixing chamber. It should not be used as a means of access to the mixing chamber nor onto the body of the machine. It is strictly forbidden to climb on the upper brim of the machine body. The height of the machine presents a potential fall hazard during entry and exit.
18. Routine cleaning should be carried out using a power hose, with the drain bung open, eliminating any reason to climb into the mixing chamber.
19. The top knife should always be fitted with the supplied guard (figure 3b) before routine cleaning or maintenance is carried out. Note: the machine is supplied with a top knife guard which can be found inside the driveline covers of the mixer wagon.
20. It is recommended that only KEENAN trained and qualified maintenance personnel enter the mixing chamber. In the case of an untrained person entering the mixing chamber, at the very minimum, the following precautionary safety guidelines should be strictly adhered at all times.
 - a. Ensure the PTO and hydraulic hoses are removed.
 - b. Apply the mixer wagon handbrake and disconnect the tractor on level ground.
 - c. Use a suitable ladder for access to and from the mixer wagon. Note: The viewing ladder is only used for viewing and not for access to the mixing chamber.
 - d. Personnel should make themselves familiar with the location of all potential hazards before entering the machine, in particular the location of the top knife and body blades.
 - e. Use suitable PPE and fit blade covers as shown in figure 3a.
21. If the person intending to enter and work within the machine is not confident about doing so safely, then they should contact a KEENAN Service Person to complete the work.
22. Noise emission levels above 90dB would require the wearing of suitable ear protection.
23. The Breakaway Safety Brake device should be attached to the tractor at all times. Cable ties fix the wire rope along the handbrake handle in place. Cable tie the wire rope to the drawbar. Fix the other end of the wire rope to a solid location on the back of the tractor e.g.: using the top link pin. In the event that the Breakaway Safety Brake device has been activated or damaged, it is recommended that KEENAN Service are contacted for directions to reset.