

SMARTFEEDERS TMR VMIXER

VERTICAL FEED MIXER

OPERATOR'S MANUAL

Supplied by Green Ag Holdings

1. INTRODUCTION

Dear Customer,

We thank you for your purchase of the Smartfeeders TMR Vertical feed Mixer.

This machine has been designed for the mixing and distribution of livestock feed when towed behind a suitable agricultural tractor for use on a farm only .

IMPORTANT:

Before operating this machine, read this manual carefully and ensure you understand all safety, operational, and maintenance requirements.

Failure to follow the instructions in this manual may result in serious injury, death, or damage to equipment.

Keep this manual with the machine at all times.

2. SAFETY INSTRUCTIONS

Safety Alert Symbol

Whenever you see this symbol in the manual:



It indicates a safety warning. Your personal safety is involved. Obey the message that follows.

Please read all decals supplied on machine and adhere to all safety instructions

2.1 Operator Responsibility

Operation by an incompetent person is likely to result in serious injury or death.

It is your legal duty as the purchaser to:

- Train operators
- Supervise operators
- Ensure operators are competent
- Ensure the machine is used according to this manual

Only trained and authorised persons may operate this machine.

2.2 General Safety

- Never operate without all guards in place.
 - Never allow riders on the machine.
 - Never allow children near the machine.
 - Stop tractor, remove key, and place in pocket before:
 - Maintenance
 - Cleaning
 - Unblocking
 - Adjustments
 - Depressurise hydraulics before service.
 - Never enter mixing bowl while machine is connected or capable of movement.
 - Do not operate near bystanders.
 - Wear PPE:
 - Safety boots
 - Gloves
 - Eye protection
 - Hearing protection
 - Close-fitting clothing
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3. MACHINE SPECIFICATIONS RECORD

Record machine details from identification plate:

Vehicle Identification No: _____

Model: _____

Serial Number: _____

Year of Manufacture: _____

These details must be quoted when ordering spare parts.

4. DELIVERY & WARRANTY REGISTRATION

The purchaser acknowledges:

- Receipt of machine in good condition
 - Understanding of warranty provisions is 12 months
 - Understanding that no other warranties exist beyond those stated and required by law
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5. PRE-DELIVERY INSPECTION CHECKLIST

Before delivery ensure:

- PTO shaft secure
 - Guards fitted
 - Rotation correct
 - Hydraulic hoses secure
 - Tyres inflated correctly
 - Gearbox oil levels correct
 - All decals fitted and readable
 - No fluid leaks after 15 min operation
 - Slip clutch/shear bolt correct
 - Operator manual supplied
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6. PROPER USE / INTENDED PURPOSE

This machine is designed to: use on farms only

- Mix silage, hay, straw, grains and supplements
- Distribute mixed feed to livestock
- Operate only when towed by a suitable tractor

The mixing bowl must be at least 30% full to mix correctly.

Maximum Speed: 10 km/h

Maximum Slope: 10%

PTO Speed: 540 RPM
Rotation: Anti-clockwise viewed from rear

Use outside these limits is unsafe.

7. LIMITS OF SAFE USE.

The machine must NOT be used for:

- Carrying people
- Transporting materials other than feed
- Towing other equipment
- Use on slopes exceeding 10%
- Use at speeds exceeding 10 km/h
- Public road use without legal compliance

Green Ag Holdings accepts no responsibility for use beyond these limits.

8. LIKELY MISUSE.

Likely misuse includes:

- Overloading
- Excessive speed
- Using undersized tractor
- Operating on soft or steep ground
- Riding on machine
- Public road use without compliance
- Operation by untrained person

Any of these may result in serious injury or death.

9. GROSS MISUSE.

Gross misuse includes wilful disregard for:

- Safety instructions
- Load limits
- Maintenance requirements
- Proper operation procedures

Warranty is void in cases of gross misuse.

10. EMERGENCY PROCEDURE

In an emergency:

1. Stop tractor immediately.
 2. Disengage PTO.
 3. Lower hydraulics.
 4. Shut off engine.
 5. Remove key.
 6. Assess situation before action.
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11. HAZARD SUMMARY & RISK CONTROLS ■

Entanglement

Hazards: ■

- PTO shaft
- Drive shafts
- Conveyor belt
- Augers

Controls: ■

- Fit and maintain guards
 - Do not operate without shields
 - Never wear loose clothing
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Crushing / Impact

Hazards: ■

- Machine rollover
- Runaway trailer
- Service operations

Controls: 1

- Park on level ground
 - Chock wheels
 - Use competent service personnel
-

Cutting ■

Hazards:

- Auger knives

Controls:

- No access during operation
 - Depower before cleaning
 - Wear gloves
-

Slipping ■

Hazards:

- Ladder
- Platform

Controls:

- Maintain 3 points of contact
 - Keep clean
 - Do not climb elsewhere
-

Hydraulic Fluid Penetration (CRITICAL) ■

High-pressure hydraulic fluid can penetrate skin and cause death.

- Never use hands to find leaks
 - Use cardboard or paper
 - Wear gloves
 - Seek immediate medical treatment if injected
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Tyre Explosion

- Inflate only to specified pressure
 - Stand clear during inflation
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Noise ■

Operator must wear hearing protection.

12. TRACTOR SELECTION

Unbraked Trailer:

Minimum tractor mass must equal at least 50% of trailer gross mass under ideal conditions.

If:

- Slopes > 10%
- Slippery ground
- High speeds

Then:

- Reduce trailer load by 50%
OR
 - Double tractor mass
OR
 - Fit trailer brakes
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13. PTO DRIVE SHAFT SAFETY

- Fit only with engine OFF
 - Remove key before installation
 - Maintain 1/3 shaft overlap
 - Use only guarded PTO shaft
 - Observe PTO manufacturer instructions
 - Protected by shear pin
 - Do not exceed 540 RPM
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14. HYDRAULIC SYSTEM SAFETY

- Replace hoses every 6 years
 - Depressurise before service
 - Mark connectors
 - Support raised components
 - Only competent persons may repair
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16. MIXING PROCEDURE

Loading Order:

1. Longest fibre first
2. Shortest fibre next
3. Dry ingredients
4. Wet ingredients
5. Concentrates last

Mix until homogeneous.

If feed revolves too fast:

- Engage counter cutters
- Reduce speed

Never climb onto mixer to cut bales.

17. UNLOADING

1. Engage conveyor.
 2. Open door slowly.
 3. Adjust counter cutter for flow control.
 4. Increase PTO to 1000 rpm briefly to empty fully.
 5. Return to 540 rpm.
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18. MAINTENANCE

Daily

- Check oil
- Check hydraulics
- Check guards
- Check tyres

100 Hours

- Grease
- Check bearings
- Check brakes

1000 Hours

- Change gearbox oil
- Repack wheel bearings

Gearbox Oil:

SAE 80-140

Angular gearbox: 20L

2-speed gearbox: 14L

Never run gearbox dry.

19. AXLES, WHEELS & BRAKES

Wheel torque:

M18 x 1.5 = 310 Nm

Check:

- After first use
- After 50 hours
- Every 100 hours

Use safety stands when working under raised machine. 1

20. STORAGE & CLEANING

- Do not pressure wash closer than 300 mm
 - Do not pressure wash weighing device
 - Store on level ground
 - Clean after use
 - Protect from weather store in a shed when not in use
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21. TRAINING

Recommended Training must include:

- PTO installation
 - Emergency procedures
 - Hydraulic hazards
 - Load limits
 - Safe mixing practices
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IMPORTANT SAFETY NOTE

When feeding in paddocks using the conveyor system, **do not allow cattle, sheep or any livestock near the conveyor while the machine is operating.**

Animals approaching the conveyor during feed-out can create serious safety risks. Always ensure livestock are kept at a safe distance from the machine during operation.

FINAL SAFETY STATEMENT

All risks associated with this machine increase significantly when:

- It is improperly maintained
- It is overloaded
- It is operated by untrained personnel
- Safety guards are removed
- Manufacturer instructions are ignored

All operators must be trained and supervised.

Failure to comply may result in serious injury or death.
