



Vacuum Tanker

# Operators Manual



**Ensure that everybody that operates the machine reads and fully understands this manual prior to operation.**

This manual is considered a permanent part of the machine and should remain with the machine at all times.



Operators Manual  
Standard Models (Non – Recessed)  
1100, 1300, 1600  
  
Recessed Models  
1800, 2200, 2600  
(English)



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# Introduction

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## **Thank you for purchasing a New Rossmore Vacuum Tanker**

Take the time to fully read this manual carefully – it has been written to ensure that you get the very best from your purchase. Failure to do so may result in serious injury or fatality to the driver or others and/or machine damage.

**This manual is considered a permanent part of the machine and should remain with the machine when you sell it.**

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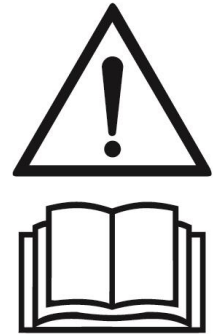
*Please fill in the following information for future reference:*

Machine Type:	Vacuum Tanker
Model :	_____
Serial Number:	RE - _____ - _____
Purchased from:	_____
Date of purchase:	_____

# Foreword

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To ensure personal safety and the safety of others, please ensure that **everybody** that operates the machine **reads and fully understands** this manual **prior to** operation. It is essential that you observe all safety instructions. It is the responsibility of the owner to advise the operator of the operating instructions and make sure they fully understand all instructions. Failure to do so may lead to personal injury and/or machine damage. Using the vacuum tanker is a one person operation therefore there should be no other person(s) in the vicinity of the machine while in use. Person under the age of 16 must not operate the machine.



## Intended Use

**Vacuum Tanker** – Machine for handling, transporting and distributing slurry, sludge or water.

**The intended use of the Vacuum Tanker is designed solely for use in customary agriculture or similar operations.** These operations include the sucking of slurry into the tank, transporting it and then distributing it through either land spread or dispose of it in a safe manner. The tanker may also be used to suck sludge and water.

Use of the Vacuum Tanker in any other way is considered contrary to the intended use. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacture also constitute essential elements for the intended use.

**Note:** It must be noted that the Rossmore Vacuum Tanks have been designed to travel at a maximum speed of 35 km/h.



**Important!** We reserve the right to introduce changes to the design and specifications, or improvements at any time, without prior notice.



# Safety Awareness

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**Warning Symbol.** Please pay particular attention to the machine and the sections of this manual that carry this warning symbol.



It is important that **all** operators of the machine carefully read, understand and follow **all** safety instructions **before** commencing operation. Ensure that all warning signs and safety decals are in good condition, completely readable and clear to understand.

## Safety Decals

Safety decals are placed on various areas of the vacuum tanker.

Damaged or missing safety decals must be replaced immediately. Safety decals are available directly through a local dealer or from Rossmore Engineering Stores. Any additions or changes to a Rossmore machine including replacement equipment or repairs, replacement safety decals must be included.

## Safe Operation



**Improper use of a tank can lead to serious injury or death.**

No persons should operate this machine before fully reading and understanding the user manual. Learn how to operate the machine correctly and safely. If you are not an experienced driver, read and study the manual with an experienced driver who can explain things to you. In addition to this ensure a safe system of work is in place by the operator/owner.

Keep the machine in proper working order at all times. Do not carry out any unauthorized modifications to any Rossmore machine as this may affect the designed purpose of the machine and its lifespan.

The manufacturer accepts no liability for damage or injury resulting from the misuse of the machine. These risks are borne solely by the user.

Rossmore Engineering Limited cannot be responsible for damage to either the machine or injury to members of the public caused by defects in the machine as a result of servicing, repairs or alterations put in place incorrectly or as a result of work being undertaken by a non-qualified personnel.

**Contact your local dealer or Rossmore Engineering Ltd on +353 (0) 504 42230 if you do not understand any part of the Operator's Manual.**

# Safety Decal Locations

Safety decals are placed on various areas of the vacuum tanker. Damaged or missing safety decals must be replaced immediately.



- Fitted to both mud guards on recessed models.
- Fitted to both sides of tank barrel on standard models.



- Safety decal will also be present at any additional filling point.



## Safety Decal Locations

Safety decals are placed on various areas of the vacuum tanker. Damaged or missing safety decals must be replaced immediately.



*Left*

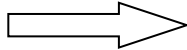
**Jackpoint** – Located on the underneath of the wheel axel inside the tyre. Identified with accompanied decal.

*Right*

**Hook point** – Located on the top of the tank, identified with the accompanied decal.



**Hook-Point**

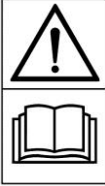









- Located on all recessed model tankers.
- Fitted to models fitted with sprung draw bar option.

# Safety Decals




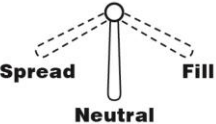

## Understanding Safety Decals

Safety decals are placed at several important places on this machine. They are affixed to identify potential dangers from residual risks. It is important that if they become damaged or removed they are replaced immediately. The following identifies their location and a brief explanatory text.

To ensure your safety and the safety of others, please ensure that <b>everybody</b> who operates the machine <b>reads and fully understands</b> this manual <b>prior to</b> operation.	
Important to check and grease the tank at regular intervals, after 10 hours of operation. See manual (Service & Maintenance) for location of grease points.	
Danger of entanglement from PTO. Keep a safe distance from moving PTO. Keep hands and loose clothing away. Always ensure the PTO is fitted with a guard. If the guard is anyway damaged it must be replaced immediately.	
The maximum safe speed Rossmore tanks are designed to travel at is 35km/h.	
Ensure and keep a constant check on the pumps oil levels. Also ensure the oil dripper if working correctly. <i>(One drop per second)</i>	
Check wheel nuts at regular intervals. We recommend before commencing each day's work.	
The contents cannot be left in the tank for any length of time – after use.	
Located at each greasing point on the tank. See Service & Maintenance for greasing information.	



# Safety Decals

<p>Hook points. Indicates where the tank can be lifted if using crane lift.</p>	
<p>Indicates the jack-point should a wheel need to be changed on the tank. The tank wheels can only be jacked and changed on an Unladen (empty tank). <b>Rossmore only recommends professional tyre mechanics to change all tank wheels.</b></p>	<p><b>JACKPOINT</b></p> 
<p>Alerts the operators to the extreme dangers of slurries gases.</p> <ul style="list-style-type: none"> <li>Keep animals and people out of slatted houses when mixing is in progress.</li> <li>Secure suction hoses to prevent them falling into the tank.</li> <li>Don't stand near tank openings or stoop to floor level when mixing in progress.</li> <li>Never enter a below ground slurry tank unless there is no alternative. If you have to go in, wear a life line held by 2 men.</li> </ul>	<p><b>DANGER</b></p>  <p><b>SLURRY GAS KILLS</b></p> <p><b>EVACUATE AND VENTILATE BEFORE YOU AGITATE</b></p>
<p>Placed on the front of the tank. Includes;</p> <ul style="list-style-type: none"> <li>Operation instructions for the tank, to fill and to spread.</li> <li>Important checks and maintenance schedules for the tank.</li> <li>Correct lever control positions.</li> <li>Warning checks and timing checks and oils.</li> <li>Working pressure gauge indicator.</li> </ul>	<div data-bbox="802 1032 1109 1664"> <p><b>ROSSMORE</b> Rossmore Engineering Slurry Tanker-Operation Manual</p> <p><b>TO FILL</b></p> <ol style="list-style-type: none"> <li>Engage tractor handbrake and place transmission in park.</li> <li>Place vacuum handle in 'fill' position.</li> <li>Connect filling hose to tank.</li> <li>Engage tractor PTO - Keep PTO between 300/350 revs/min.</li> <li>Allow 10 seconds for vacuum to build up.</li> <li>Open valve.</li> <li>When sight glass fills (1) close valve, (2) disengage PTO and (3) remove filling hose.</li> </ol> <p><b>TO SPREAD</b></p> <ol style="list-style-type: none"> <li>Set vacuum handle to 'spread'.</li> <li>Engage PTO and allow pressure to build up for minimum 10 seconds.</li> <li>Open rear hydraulic valve and commence spreading.</li> <li>Disengage PTO when turning and reversing.</li> </ol> <p><b>IMPORTANT</b></p> <ol style="list-style-type: none"> <li>Ensure oil dropper is set at one drop per second.</li> <li>Check gearbox oil levels after every 20 hours of operation. Change oil after every 100 hours of operation.</li> <li>Keep syphon drained. If syphon fills regularly, check top sanitary trap and stop ball.</li> <li>Flush out pump and valves with diesel every month and/or when been left up for long period.</li> </ol>  </div> <div data-bbox="1117 1032 1423 1664"> <p><b>WARNING</b></p> <ol style="list-style-type: none"> <li>Check wheel nuts after initial hour of operation and after every 10 hours of operation thereafter.</li> <li>Check tyre pressure after every 10 hours of operation. Recommended tyre pressure is printed on the side of every tyre. If unreadable contact Rossmore Engineering direct.</li> <li>Check oil after every 20 hours of operation.</li> <li>Oil: Pump Hydraulic 32</li> <li>Oil: Gearbox EP90 (SAE 90)</li> <li>Disengage PTO when turning and reversing.</li> <li>Run pump at 300 - 350 revs/min.</li> <li>Check tension on sprung drawbar tanks after every 20 hours of operation.</li> <li>Grease tank after every 10 hours of operation.</li> </ol> <p><b>WORKING PRESSURE FOR TANKERS MUST NOT EXCEED 1 BAR - 14.2 PSI</b></p>  </div>








# Safety Instructions

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## Protection

1. Check the tank on a weekly basis for any defects or blemishes.
2. Inspect hydraulic hoses, tyres, brake cylinders, grease points and other key features.
3. Keep people and livestock clear of the working area of the machine during operation. It is the operators 100% responsibility to be aware of their surroundings when in operation.
4. For improved safety work with a safety exclusion zone of 15m around the tractor and tank.

## Protection Safety Checks

-  Never operate the vacuum tanker unless all safety guards are fitted and are firmly in position. Always ensure that all guards and covers are replaced after carrying out maintenance or adjustments. Do not make any sharp turns with the PTO shaft in motion.
-  Do not under any circumstances allow any persons to travel on the tank or stand on the tank drawbar.
-  Never allow children to play on or around tractors or machinery
-  Never operate the machine with persons standing in the spreading path. There is a danger to both persons and livestock standing within the vicinity. Employ a safety exclusion zone of 15m around the tractor and tank.
-  Do not use the machine if you think there may be large stones or foreign objects inside, they could cause serious damage to your machine.
-  Never leave the machine unattended while in operation.
-  Always disengage the PTO before dismounting from the tractor.

# Safety Instructions

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## Storage

Before disconnecting the tank, relieve all hydraulic pressure from the tractor's hydraulics. When the tank is disconnected from the tractor ensure it is stored in a secure safe position. Store the tank on a hard level surface and blocks positioned below each wheel. Incorrect storage may lead to serious injury or even death. Store the tanker clear of bystanders and children.

## Storage Safety Checks



Never park the tank on a slope.



Always disengage the PTO shaft, apply the handbrake before dismounting from the tractor.



Slurry cannot be left in the tank for any length of time after use.

## Carry out the following during tank storage

- a) Clean the tank thoroughly. Remove any debris, dirt, excess grease or oil.
- b) Apply a thin layer of grease on visible piston rods in order to protect them.
- c) Paint the tank where needed.
- d) Replace any damaged or missing parts, decals, hoses or hardware.
- e) Place a cover over the pump when storing outdoors.



Always disengage the PTO shaft, apply the handbrake, stop the tractor and remove the key before carrying out any maintenance or adjustments.

## Protective Clothing

Correct Personal Protective Equipment (PPE) and correct clothing is essential when working with or operating any machinery. Choose appropriate equipment for the job. (Example: Fitted clothing, ear defenders, gloves, safety glasses/goggles, dust mask and safety boots). Use of mobile phones and music headphones is not permitted during machine operation.



Operators should not wear loose fitting clothing when working close to PTO driven equipment. Keep long hair tied back. Never be in the vicinity of a rotating PTO shaft.

# Safety Instructions

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## Safe Maintenance

Before commencing maintenance, ensure tank is on a hard level surface, engage handbrake on tank, place blocks on either side of each wheel.



Always disengage the PTO shaft, apply the handbrake, stop the tractor and remove the key before carrying out any maintenance or adjustments.



**Warning!** Never service a under a raised tank. If the tank has to be raised it must be securely supported underneath.



Never service, adjust or lubricate the tank while in operation or the tractor is engaged.



**Warning!** Only trained fitters should change and/or replace a wheel/tyre on a tanker.

It is important to keep the tank in good condition at all times. Repair any damage immediately. Replace worn or broken hoses and parts. Any build-up of grease, oil or debris should be removed.

Any machine parts that need to be raised for service work should be securely supported. Do not work or walk under a raised tank unless it is securely supported in a safe position.



**All repairs and servicing should be undertaken by fully qualified personnel.**  
**Warranty is negated when works, repairs and servicing are undertaken by non-qualified personnel.**




# Safe Operation

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## General Safety

Ensure the tank is securely attached to the tractor. The use of a hitch is the preferred method of attachment. When the tank is securely attached, place the tractor in park, place handbrake on, turn of the ignition. Relieve the hydraulic pressure in the tractor and then securely attached the brake hose and rear valve hose.


Never leave the tank partially attached to the tractor. Always visually check the tank is properly connected and in a locked position.


 **Check connections works correctly**, ensuring hydraulics, braking system and lights have been securely fitted before commencing work.

## Safe Working Area

Always ensure that work is carried out in a safe environment. Ensure that all individuals, especially children and animals are clear before starting the machine and commencing work. If individuals or animal enter the exclusion zone, stop the machine, engage transmission in park and handbrake ON. Do not recommence work until the work zone is clear.



 **Never** allow children to play on or around tractors or machinery

 **Never** operate the machine with persons standing in the spreading path. There is a danger to both persons and livestock standing within the vicinity. Employ a safety exclusion zone of 15m around the tractor and tank.

## Increase stability and Avoid roll over by;

- Ensuring as much visibility at all times
- Avoid working on slopes where possible.
- Carry a lighter load when working on extreme slopes to help lower centre of gravity.
- Reduce speed, avoiding sharp turns, holes, ditches and other obstructions.
- *and wear a seatbelt. This will help prevent personal injury or death caused by rollover accidents.*

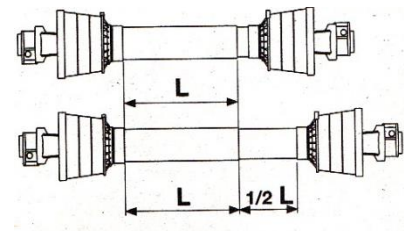


Take extreme care when operating the tank on sloping ground. Exercise extreme caution when turning on sloping ground. Especially with a partially filled tanker as the inertia will cause the weight of the tank to be thrown to one side of the tank.

# Safe Operation

## Power Take Off (P.T.O) Shaft Settings

Check the length of the power shaft in both a working position and transport position before use. The length of the power shaft may need re-sizing before use. Ensure the power shaft has a minimum opening of  $1/2 L$  when in a working position. Required length for each tractor can vary. Always check Power



shaft length when operating on different tractor. A power shaft that is too long or too short may damage both the tank and tractor (not covered by warranty). Secure the PTO guard by means of check chains to suitable points on the tractor and machine.

**Warning!** Before starting the power shaft, ensure there are no loose safety guards, parts or tools placed on or underneath the machine.

**Warning!** Never step over a power shaft at any time.



**Warning!** Never operate a power shaft with a damaged or missing safety guard.











**Warning!** Secure the PTO guard by means of check chains to suitable points on the tractor and machine.

## Use of public roads

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Before bring the machine onto a public road, it is important to check thoroughly that the machine is following all of the appropriate guidelines.

-  Before travelling on a road, ensure the **brakes** are connected and working correctly.
-  Ensure **lights** are connected and working properly.
-  Ensure PTO is disengaged.
-  Observe local maximum road speeds for this type of machine.
-  Take extra care when driving on rough, bumpy roads. Adjust speed accordingly to prevent any accidents when travelling with a loaded tank. Owners and operators do so at their own risk.
-  The operator must ensure that any other regulations regarding road use are adhered to.
-  Extreme care must be taken when negotiating acute bends with high speed tractors.
-  Where incur total blind view onto an exiting road, seek assistance to be beckoned out.

**Note:** It must be noted that the Rossmore Vacuum Tanks have been designed to travel at a maximum speed of 35 km/h.



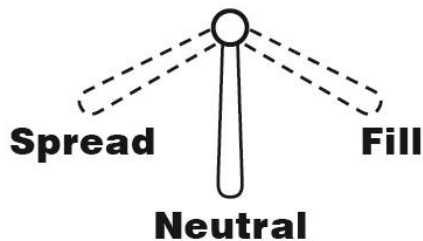
# Operating Instructions

## Filling

1. Engage tractor handbrake and place transmission in park.
2. Place vacuum handle in 'fill' position.
3. Connect filling hose to tank.
4. Engage tractor PTO - Keep PTO between 300/350 revs/min.
5. Allow 10 seconds for vacuum to build up.
6. Open valve.
7. When sight glass fills (1) close valve, (2) disengage PTO and (3) remove filling hose.

## Spreading

1. Set vacuum handle to 'spread'.
2. Engage PTO and allow pressure to build up for minimum 10 seconds.
3. Open rear hydraulic valve and commence spreading.
4. Disengage PTO when turning and reversing.



**ROSSMORE**  
Rossmore Engineering Slurry  
Tanker-Operation Manual

**TO FILL**

1. Engage tractor handbrake and place transmission in park.
2. Place vacuum handle in 'fill' position.
3. Connect filling hose to tank.
4. Engage tractor PTO - Keep PTO between 300/350 revs/min.
5. Allow 10 seconds for vacuum to build up.
6. Open valve.
7. When sight glass fills (1) close valve, (2) disengage PTO and (3) remove filling hose.

**TO SPREAD**

1. Set vacuum handle to 'spread'.
2. Engage PTO and allow pressure to build up for minimum 10 seconds.
3. Open rear hydraulic valve and commence spreading.
4. Disengage PTO when turning and reversing.

**IMPORTANT**

1. Ensure oil dropper is set at one drop per second.
2. Check gearbox oil levels after every 20 hours of operation.
3. Change oil after every 100 hours of operation.
4. Keep syphon drained. If syphon fills regularly, check top sanitary trap and stop ball.
5. Flush out pump and valves with diesel every month and/or when been left up for long period.

Spread  
Neutral  
Fill

**WARNING**

1. Check wheel nuts after initial hour of operation and after every 10 hours of operation thereafter.
2. Check tyre pressure after every 10 hours of operation. Recommended tyre pressure is printed on the side of every tyre. If unreadable contact Rossmore Engineering direct.
3. Check oil after every 20 hours of operation.
4. Oil: Pump Hydraulic 32
5. Oil: Gearbox EP90 (SAE 90)
6. Disengage PTO when turning and reversing.
7. Run pump at 300 - 350 revs/min.
8. Check tension on sprung drawbar tanks after every 20 hours of operation.
9. Grease tank after every 10 hours of operation.

**WORKING PRESSURE FOR TANKERS  
MUST NOT EXCEED 1 BAR - 14.2 PSI**

A circular pressure gauge with two scales. The outer scale is in psi, ranging from 0 to 30. The inner scale is in bar, ranging from 0 to 1. A needle points to approximately 10 psi (0.7 bar). The word 'MAX' is printed near the 10 psi mark.

**⚠ Warning!** Do not improperly adjust safety pressure gauge.

*The pressure gauge has been tested and set at Rossmore Engineering LTD.*

If the gauge becomes damaged or made ineffective replace it immediately.

# Service and Maintenance

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**Warning!** The engine of the tractor or of the machine should be stopped before any intervention, service or maintenance is carried out on the tractor.



Tank pressure must be released before and external work commences.

## Lubrication & Greasing

Grease your tank after every **10 hours** of work. Rossmore Engineering LTD recommends only *Pin and Bush grease*.

Pin and bush grease is lithium based containing molybdenum disulphide and high grade graphite to enhance anti-wear characteristics. Used where adhesion, pivoting and shock loading is present.

There is **no grease points** on standard model tanks (Non-Recessed) – 1100, 1300 & 1600 GI models.

There is **3 grease points** on recessed models – 1800, 2200 and 2600 GI models as described below.

## Recessed Models – 1800, 2200 & 2600

1. On the swivel hitch.
2. On the sprung drawbar plate.
3. On the main pivot bush between the drawbar and axle.

## Important

1. Ensure oil dropper is set at one drop per second.
2. Check gearbox oil levels after every 20 hours of operation. Change oil after every 100 hours of operation.
3. Keep syphon drained. If syphon fills regularly, check top sanitary trap and stop ball.
4. Flush out pump and valves with diesel every month and/or when been left up for long period.

## Warning

1. Check wheel nuts after initial hour of operation and after every 10 hours of operation thereafter.
2. Check tyre pressure after every 10 hours of operation. Recommended tyre pressure is printed on the side of every tyre. If unreadable contact Rossmore Engineering direct.
3. Check oil after every 20 hours of operation.
4. Oil: Pump Hydraulic 32
5. Oil: Gearbox EP90 (SAE 90)
6. Disengage PTO when turning and reversing.

# Service and Maintenance


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7. Run pump at 300 – 350 revs/min.
8. Check tension on sprung drawbar tanks after every 10 hours of operation.
9. Grease tank after every 10 hours of operation.


## Replacement Parts

**Important!** When a spare part is needed for regular maintenance or service, use only genuine, original equipment spare parts to restore your equipment to original specifications. The manufacturer is not responsible for damages that may occur due to installation of non-approved parts and/or accessories.

## Tyre Maintenance

 **Warning!** It is compulsory that only trained fitters should change and/or replace a wheel/tyre on a tanker.

 Never service a tank that contains any content.

 Never service a tank on soft ground.

- If a wheel or tyre becomes damaged, seize operation immediately.
- **Plan the work;** If any work has to be carried out on a wheel or tyre, empty the contents of the tanker.
- Move the tank to a safe, hard level surface to carry out any maintenance.
- Ensure the tank is attached to the tractor and handbrake placed on to secure in position.
- Never service or change a wheel or tyre with while the tank contains any content.
- **Use appropriate equipment;** Only trained fitters should change or replace a wheel or tyre.
- Only prop the tank with correct strength axel stands and jacking mechanisms.

**Important!** Safety **JackPoints** are located underneath the tank axels and are clearly identified with the decal shown right.



## Wheel Bolts

Check tightness of wheels daily.

Wheel nuts should be tightened diagonally using a torque wrench.

- Standard models – 510 Nm
- Recessed models – 600 Nm

# Service and Maintenance

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## Hydraulic hoses

Inspect hydraulic hoses on a **monthly** basis. Ensure there are no leaks, twists, kinks or defects in the hoses. Remove any debris, dirt and grime.



Never check hydraulic hoses for leakages with fingers or hands. Use a piece of cardboard. Pressurised oil can penetrate skin. Ensure hydraulic pressure is relieved beforehand. **In the occurrence of an accident seek medical attention immediately.**



**After 6 years, it is recommended to replace hydraulic hoses due to wear and tear.**

## Cleaning the Tank

Inspect and clean the tank on a regular basis. Ensure that **ALL** marking information remains legible.

The procedures to be followed in order to remove any stones or any foreign matter from inside the tank without entering it;



Opening the back door fully, evacuate the area and allow the tank to ventilate for approx. 30 minutes before commencing cleaning.



If you have a long brush or scraper clean out the debris without entering the tank where possible.



If you have to enter the tank it is mandatory to wear some breathing equipment.

### Note:

1100, 1300 and 1600 model tanks are fitted with full opening back doors allowing the debris to be cleared straight out.

1800, 2200 and 2600 models are fitted with a large opening back door and sump hole allowing the debris to be cleared out through the sump hole or cleared out through the back door.

# Waste Disposal

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**Improper waste disposal is a continuous threat to the environment. Ensure that you dispose of any waste in a correct and safe manner.**

**Such waste from Rossmore machines include;**

Oil, Hydraulic hoses, Plastic, Rubber and Steel.

Use leak proof containers when disposing of oil. Do not use beverage or food containers as this may mislead someone into drinking them. Do not pour waste oil onto the ground, down a drain or into any water source.

Local recycling and environmental centres will inform you on the proper procedure to dispose of or recycle any waste.



# Tanker Specifications

Specifications		Non Recessed Models			Recessed Models		
Model and Capacity Per Gallons	GL	1100	1300	1600	1800	2200	2600
Approx. Capacity in Litres	l	4091	5910	7274	9092	10000	11820
Features							
Pump Capacity	Litre/Min	8000	8000	8000	9000	11000	11000
Spread Approx.	m	9.5	9.5	9.5	13.5	13.5	13.5
Axel		70 mm 6 Studs or 80mm 8 Stud	80mm 8 Stud	90mm 8 Stud	110 mm 10 Studs	110 mm 10 Studs	110 mm 10 Studs
Wheel Size		16.5 R 22.5 or 550/60 R 22.5 or 21.3 R 24	550/60 R22.5 or 21.3 R 24	500/60 R22.5 or 21.3 R 24	28.1 R 26	28.1 R 26	30.5 R 32
Hydraulic Brakes		✓	✓	✓	✓	✓	✓
Mudguards		Optional	Optional	Optional	✓	✓	✓
Sprung Drawbar		N/A	N/A	Optional	✓	✓	✓
LED Lights		✓	✓	✓	✓	✓	✓
Wall Thickness	mm	5	6	6	6	6	6
Anti-Surge Partition		No	No	No	Yes	Yes	Yes
Suction Hose	Ø in mm	150mm	150mm	150mm	150mm	150mm	150mm
Suction Hose Length	m	4.5	4.5	4.5	6.0	6.0	6.0
Dimensions							
Overall Length	m	5.28	5.98	5.97	6.91	6.81	6.71
Height	m	2.62	2.56	2.66	2.90	3.01	3.12
Width	m	2.48	2.42	2.52	2.67	2.62	2.57
Barrel Diameter	m	1.37	1.37	1.53	1.52	1.68	1.83
Tanker Weight (Unladen)	kg	1810	2080	2400	3420	3820	4060

*\*As we are continually improving products we reserve the right to change specifications without notice*

# Conditions of Warranty

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## Limited Warranty

Rossmore Engineering LTD, Clonoulty, Cashel, Co. Tipperary, Ireland (hereinafter referred to as “the company”) warrants the original retail purchaser that new products sold, shall be at the time of delivery be free from defects in material and workmanship, and that such equipment is covered under Limited Warranty providing the machine is used and serviced in accordance with the recommendations in the operators manual.

**The Limited Warranty covers the equipment for a period of 12 months starting from the date the equipment is delivered to the original retail purchaser.**

*These conditions are subject to the following expectations;*

1. Warranty claims will only be assessed when all alleged faulty parts have been returned to the manufacturer. All parts dispatched to replace damaged parts under warranty consideration are chargeable, pending decision on claim.
2. Parts of a Rossmore Engineering machine which are not of Rossmore manufacture, such as PTO shafts, slip clutches, hydraulic cylinders, selected hydraulic hoses, etc are not covered by this limited warranty but are subject to the warranty of the original manufacturer. Warranty claims applying to these types of parts must be submitted in the same way as if these parts were manufactured by Rossmore. However, compensation will be paid in accordance with the agreement of the manufacturer concerned.
3. This limited warranty does not apply to failure through normal wear and tear, to damage resulting from negligence or from lack of inspection, from misuse, from lack of maintenance and/or if the machine has been involved in an accident, lent out or used for purposes other those for which it was intended by the company.
4. This limited warranty will not apply to any product that has been altered or modified in any way without the express permission of the company, or if parts not approved by Rossmore Engineering are used in repair.
5. Warranty is negated when works, repairs and servicing are undertaken by non-qualified personnel.
6. The company take no responsibility for any additional costs, including loss of oil and/or consumables incurred during the failure and repair of a product.
7. The company cannot be held responsible for any claims or injuries to the owner or third party, nor to any resulting responsibility.
8. Also, on no account can the company be held liable for incidental or consequential damages (including loss of anticipated profits) or for any impairment due to failure, a latent defect or a breakdown of a machine.

## **The customer will be responsible for the following cost;**

Normal maintenance such as greasing, adjusting oil levels etc. As specified in the operators manual.

Labour charges other than original agreed, incurred in the removal and replacement of components.

Dealers travel time and costs to and from the machine.

Parts defined as normal wear items such as, but not limited to blades, chains, tines, tine barrels, slip clutches, pins and bushings etc. that are not covered under the limited warranty.

# Conditions of Warranty

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- a) Where the Purchaser deals as a consumer within the meaning of Sales of Goods and Supply of Service Act 1980, the goods are sold subject to any condition and warranties implied by the Sales of Goods Acts, 1893 and 1980 or any amending statute.
- b) Save in the case where the Purchaser deals as a consumer as herein before defined, all statements, representations and conditions or warranties as to the quality of the Goods or their fitness for any particular purpose whether expressed or implied by law or otherwise are hereby expressly excluded.
- c) Whilst every care is taken that the goods are in accordance with specifications and of good material standard and workmanship, the Company shall not be liable for any loss or injury arising directly or indirectly from the use of the Goods or any component thereof whether manufactured or supplied by them or otherwise.
- d) In the case of products manufactured by the Company, as our manufacturing policy is one of continuous improvement, the Company reserves the right to amend specifications, without notice.
- e) Except where the Purchaser of the Goods is a consumer as hereinbefore defined, all terms and conditions as implied by statute or by common law in the case of contracts for the supply of goods and services are hereby expressly excluded.

## Repairs and Alterations

Any products accepted for repair or alteration by the company and are held by the Company are entirely at the customers own risk.

## General Considerations

- Rossmore Engineering Ltd shall hereinafter be referred to as "the Company".
  - All products and/or components or whatever kind and all services sold by the Company shall be sold subject to these terms and conditions of sale and shall hereinafter be referred to as "the Goods".
  - The buyer of the goods shall be hereinafter referred to as "the Purchaser".
- a) The conditions of sale shall be deemed to be incorporated in all tenders, quotations, delivery dockets, invoices, credit notes, and other documents of a similar nature submitted by the Company for the supply of Goods.
  - b) Any Terms or Conditions in the Purchaser's order which are inconsistent of these Terms and Conditions of sale shall not form part of any contract between the Company and the Purchaser unless accepted in writing.
  - c) Unless previously withdrawn, offers by the company shall remain open for acceptance for a period of 30 days or such longer period as the Company may agree in writing.
  - d) Each and every provision of these conditions of Sale and Reservation of Title Clause and ever part of every such provision shall be separate and severable, and enforceable accordingly.
  - e) The Law of the Republic of Ireland shall govern operations and interpretation of these Conditions of Sale and Reservation of Title Clause, but the Company may sue for monies on foot of any sale in any jurisdiction.

## Purchasers Rights

Nothing contained herein or in any other document in relation to any contracts is intended to affect or prejudice nor will affect or prejudice the contractual rights enjoyed by the purchaser by virtue of Sale of Goods Act 1893 and 1980 and in particular, of sections 12, 13, 14 and 15 of the said Act of 1893 as amended or where Goods are sold outside the jurisdiction of the Republic of Ireland, the statutory rights of a Purchaser who is a Consumer as hereinbefore defined.

## Force Majeure

If circumstances occur which not have been foreseen at the time the contract was concluded and which are beyond the control of the Company and directly or indirectly prevent, hinder or make more difficult the full or partial performance of the contract, such circumstances being, inter alia war, threat of war, civil war, natural disasters, riots, strikes, lockouts, fire, breakdown in the company's

# Conditions of Warranty

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factory, delayed or incorrect deliveries by the companies suppliers, government measures, blockades, the Company shall have the right without incurring further liability, whether to suspend performance of the contract wholly or in part or to treat the contract as cancelled and thereupon all amounts due to the Company by the Purchaser committing an act of bankruptcy, suspending payments of its debts, entering into an agreement with its creditors, closing its business or in case of a limited company, having a Receiver of Liquidator appointed over its assets (liquidation for the purpose of restricting excepted).

## Prices and Terms of Payment

- a) All prices are subject to alteration without notice and prices charged for goods and services are those ruling on date of dispatch. This clause also applies to backorders. All prices are exclusive of VAT and same, together with carriage when charged, shall be borne by the Purchaser.
- b) The Company must be paid in full without deduction irrespective of alleged disputes or counter-claims in accordance with the terms specified, by the last day of the month following month of invoice.
- c) If part only of an order shall be supplied, the terms of the payment shall apply to the Goods actually delivered, notwithstanding the shortfall.

## Damage in Transit and Shortages

On delivery, the Goods must be checked against the Delivery Note which shall be signed by or on behalf of the Purchaser. Such signature is an acknowledgement that the Goods have been received in good condition and order. The company will accept no responsibility for damage in transit or shortages unless the same are noted on the Delivery Note before the signature. In any event all claims must be received in writing by the company within 7 days of the receipt of the Goods by the Purchaser.

## Risks and Reservations of Title

- a) Ownership of the Goods, the subject matter of this contract shall not pass to the Purchaser until the invoice covering same has been paid in full.
- b) The Goods shall be at the Purchasers risk from the date of delivery until they are paid for in full and during this time the purchaser shall store the Goods so as clearly show them to be the property of the Company.
- c) The personnel of the Company, its servants or agents will be allowed full access to the Goods and place of storage at all reasonable times with the intention that such personnel may remove such Goods in exercise of any provisions in the clause.  
Any

expense incurred in so doing shall be borne by the purchaser.

# EC Declaration of Conformity

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**Directive BS EN 707:1999**

**+A1: 2009**

Rossmore Engineering Ltd,  
Coolanga, Clonoulty,  
Cashel,  
Co. Tipperary,  
Ireland

Tel: +353 (0) 504 42230

Hereby certifies that:

From January 2014, all Vacuum Tankers;

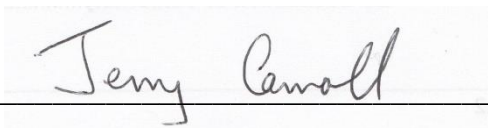
**Standard Models, 1100, 1300 and 1600**  
**Recessed Models, 1800, 2200, and 2600**

are manufactured to comply with EU provisions:

Directive - Safety of Machinery.....2006/42/EC

Directive - Agricultural Machinery : Slurry Tankers - Safety.....BS EN 707:1999+A1:2009

The person authorised to compile technical documentation at Rossmore Engineering Ltd  
is Jason Forrestall, Product Development Director.

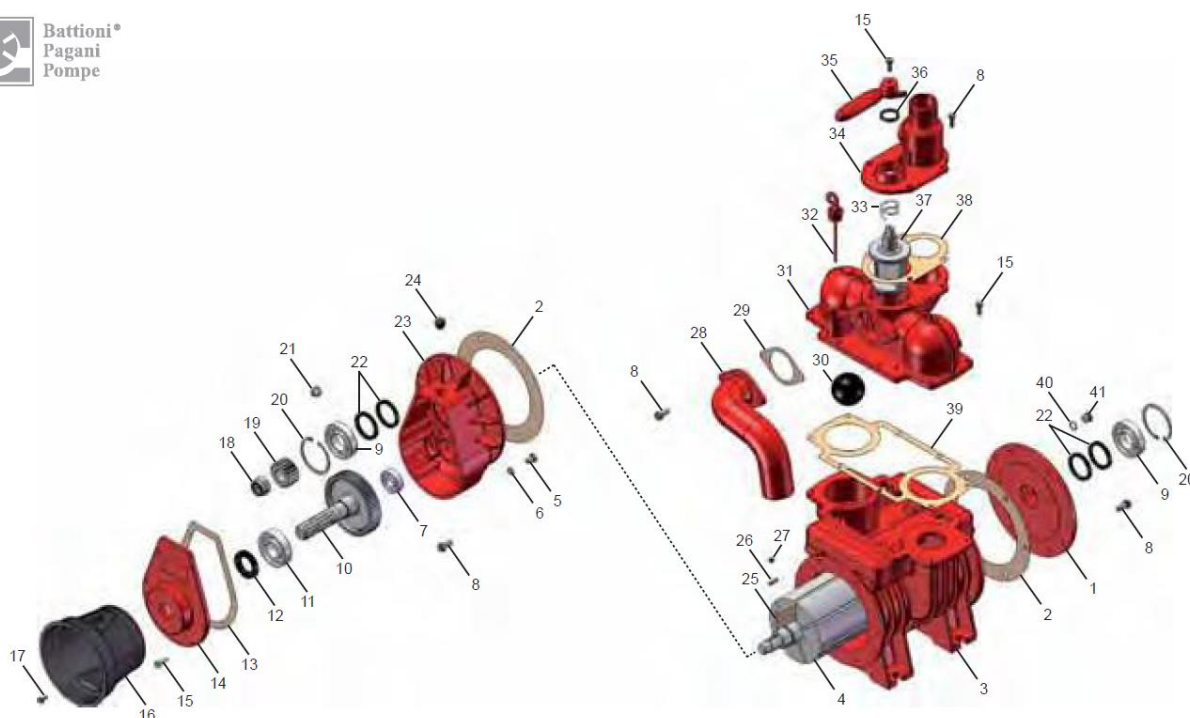


Jerry Carroll ( Company Director)

# Spare Parts



## Spare Parts to suit MEC 8000 M Series Pumps



No.	Description	Qty	No.	Description	Qty
1	Back cover	1	22	Seal 48x62x8	4
2	Gasket	2	23	Housing	1
3	MEC 8000 Body	1	24	Stud 3/8"	1
4	MEC 8000 Rotor	1	25	Vane 450x46.5x6.3	7
5	Bolt M10x16	1	26	Key 6x6x25	1
6	Washer M10	1	27	Threaded dowl	1
7	Bearing	1	28	Exhaust	1
8	Bolt M10x25	1	29	Exhaust gasket	1
9	Bearing	1	30	Ball 40mm	1
10	Gear 53 teeth	1	31	Housing	1
11	Bearing	1	32	Dipstick - New 136mm	1
12	Seal 35x62x10	20		Dipstick - Old 79mm	1
13	Cover gasket	2	33	Spring	1
14	Cover	1	34	Top housing	1
15	Bolt M8x25	1	35	Handle	1
16	Black cone bolt-on	1	36	Seal	1
	Orange cone push-on		37	Valve	1
17	Bolt M6x16	4	38	Gasket	1
18	Lock nut M27x2	1	39	Body gasket	1
19	Gear 23 teeth	1	40	Aluminium washer	1
20	Internal circlip Ø80	2	41	Iron plug	1
21	Plug 3/8"	1			

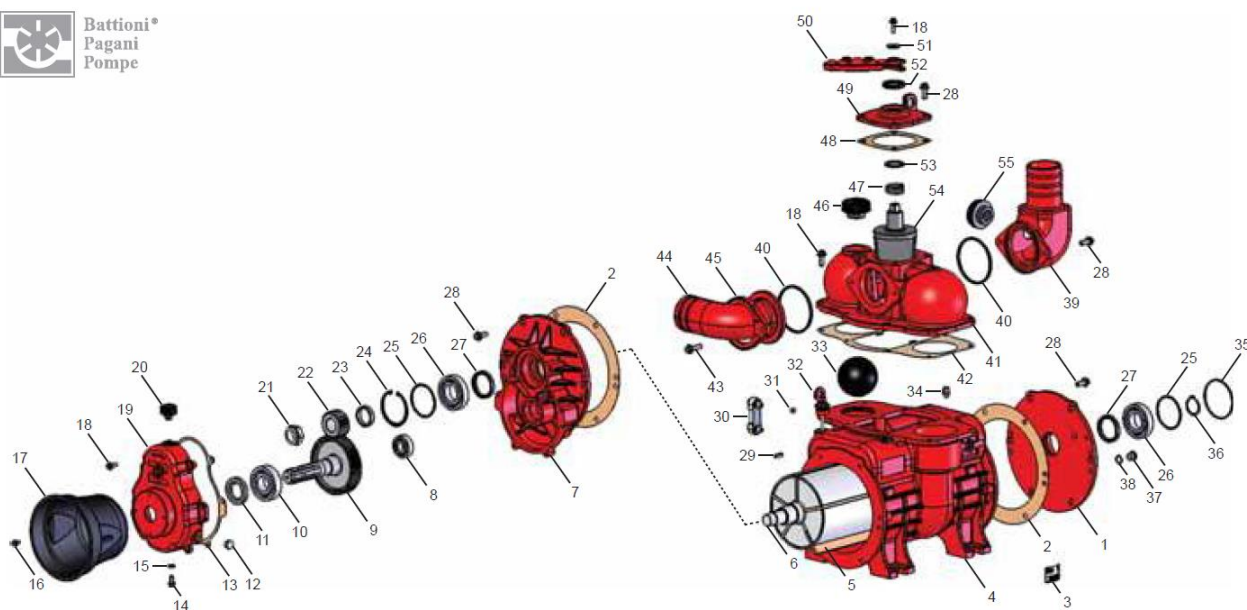
# Spare Parts



## Spare Parts to suit New MEC 9000& 11000 M Series Pumps



Battioni®  
Pagni  
Pompe



No.	Description	Qty	No.	Description	Qty
1	Back cover	1	29	Key 6x6x25	1
2	Gasket	2	30	Complete oil level ind.	1
3	Thermo label	1		Glass only	1
4	9000 Pump body	1	31	Plug Ø1/8"	1
	11000 Pump body		32	Dipstick	1
5	Vane 300x60x6.5	5	33	Rubber ball Ø90	1
	Vane 370x60x6.5		34	M10 Plug / vent	1
6	9000 Rotor	1	35	O' Ring	1
	11000 Rotor		36	Ring Ø40 - Din 471	1
7	Housing	1	37	Plug M16x1.5 Din908	1
8	Ball bearing	1	38	Washer Ø16x20x1.5	1
9	53T gear for 540rpm	1	39	Suction elbow Ø76	1
	43T gear for 1000rpm			Suction elbow Ø80	
10	Ball bearing	1		Suction elbow Ø100	
11	Oil seal 35x62x10	1	40	O' Ring	2
12	Oil level plug Ø3/8"	1	41	Top housing	1
13	Cover gasket	1	42	Top housing gasket	1
14	Screw M10x16 TE	1	43	Screw M10x35 TEF	4
15	Washer Ø10x16x1.5	1	44	Rotating elbow Ø76	1
16	Screw M6x10 TEF	4		Rotating elbow Ø80	
17	Guard cone	1		Rotating elbow Ø100	
18	Screw M10x25 TEF	17	45	Elbow flange Ø76 / Ø80	1
19	Gearbox cover	1		Elbow flange Ø100	
20	Oil plug Ø3/8"	1	46	Cap Ø2"	1
21	Lock nut M27x2x16	1	47	Spring	1
22	23T gear for 540rpm	1	48	Manifold cover gasket	1
	33T gear for 1000rpm		49	Manifold cover	1
23	Rotor spacer	1	50	Handle	1
24	Ring Ø80	1	51	Washer 8x23x4 Din6340	1
25	Washer Ø80	2	52	Oil seal 35x50x7	1
26	Ball bearing	2	53	Washer	1
27	Oil seal 48x62x10	2	54	Reversing valve	1
28	Screw M10x25 TE	19	55	Plug Ø1 1/2"	1

# Spare Parts

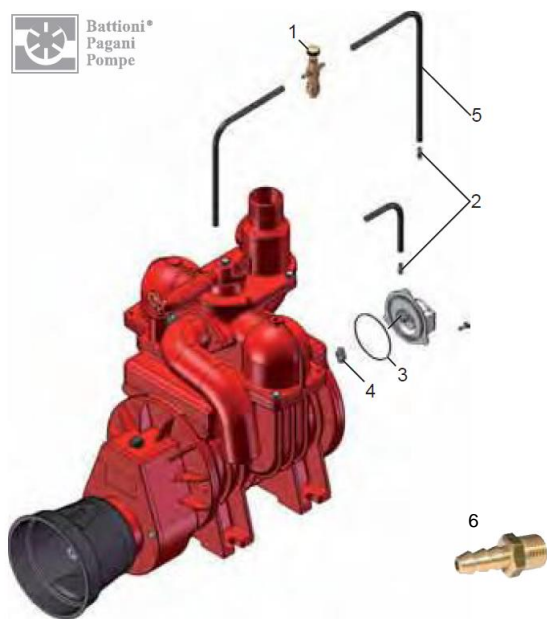


## Force Feed Oil Pump

To suit MEC/M Series



Battioni\*  
Pagani  
Pompe



Description
Force feed oil pump (Includes all parts shown)

Replacement Parts		
No.	Description	Qty
1	Double oil dropper	1
2	Hose connection	1
3	O' Ring	1
4	Key	1
5	Oil hose	3
<b>Oil Hose Connection for NEW MEC Pumps</b> To suit: MEC 9000 & MEC 11000 Threads into pump body		
6	Oil Hose Connection M10 x 1	



## Notes

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