



Manufacturers of Agricultural Machinery

Hi-Spec Side Spreader



Operators

Manual

2012

Models:

800, 1000

rev - ss101



Hi-Spec Engineering Ltd.

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Introduction

Congratulations on Purchasing a Hi-Spec Side Spreader.

Please Read the Following Manual Before Using Machine

The way you care for and maintain this machine will decide its future performance. This manual has been carefully written to help you maintain the condition of your machine. Read this manual carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or machine damage.

Hi-Spec Side Spreaders have been designed and manufactured in compliance with the following directives and standards;

Machinery Directive 2006/42/EEC

Harmonised standards;

EN ISO 12100-1:2003, Safety of machinery Part 1: Basic terminology, methodology

EN ISO 12100-2:2003, Safety of machinery Part 2: Technical principles

EN ISO 4254-1:2005, Agricultural machinery -- Safety -- Part 1: General requirements

EN ISO 14121-1:2007, Safety of Machinery – Principle of Risk Assessment

This manual should be kept within the vicinity of the machine at all times and should be considered a permanent part of your machine. It should remain with the machine should you decide to sell it.

Warranty is provided as a part of Hi-Spec Engineering's support program for customers who operate and maintain this machine and equipment as described in this manual. This warranty provides you the assurance that Hi-Spec Engineering will back its machines should defects appear within the warranty period. If the machine is abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and improvements may be denied.

All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication.

It is the policy of Hi-Spec Engineering to improve its products and designs whenever it is practical and possible to do so. We reserve the right to make changes or improvements at any time without incurring any obligation to make such changes on products sold previously

Thank You for Choosing Hi-Spec Engineering

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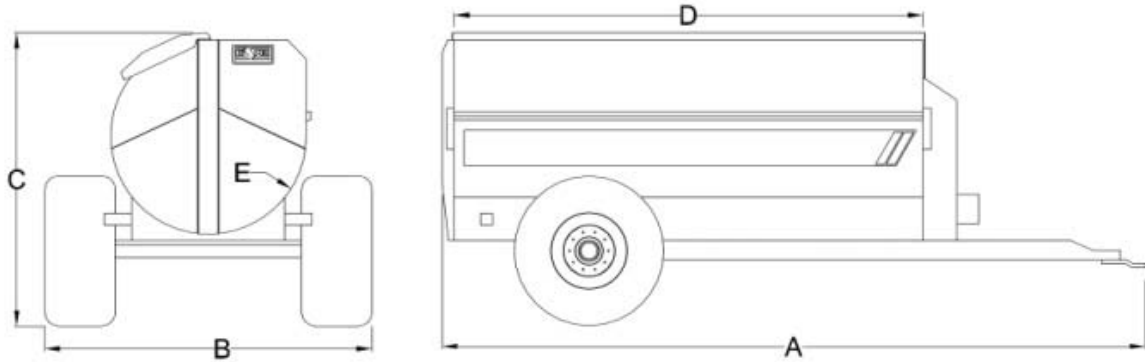
Designated Use of Machine

The Hi-Spec Side Spreader is exclusively designed for use of transporting and spreading agricultural manure.

Hi-Spec Engineering will not be held responsible for any loss or damage resulting from machine applications other than those specified above. Any other use the machine may be put to is entirely at the owners/operators risk. The Designated use of a Hi-Spec Side Spreader includes that the operating, maintenance and repair instructions given by the manufacturer will be strictly fulfilled. Designated use means operating the Side Spreader is exclusively for persons familiar with the machine and fully aware of the associated risks involved in operating it.

By any alteration of safety equipment, the Declaration of Conformity, as well as the CE sign on machine loses its validity

Technical Specifications and Dimensions



		800	1000
Loading Height		1500mm / 4'11"	1680mm / 5'6"
Overall Length	A	4725mm / 15'6"	5430mm / 17'10"
Overall Width	B	2500mm / 8'3"	2550mm / 8'5"
Overall Height	C	2490mm / 8'2"	2540mm / 8'4"
Body Length	D	3000mm / 9'10"	3625mm / 11'10"
Diameter	E	1525mm / 5'	1525mm / 5'
Rotor Speed		229 rpm	229 rpm
Unladen Weight		1700kg	2180kg
Lid Thickness		3mm	3mm
Body Thickness		5mm	5mm

Safety

Recognise Safety Information.



This is a safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow the recommended guidelines for safe operating practice:

Understand signal words: - On machine safety signs, signal words give the level of the hazard.

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury

WARNING

Indicates a potentially more hazardous situation which, if not avoided, could result in death or serious injury

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury

You will find these signs located near specific hazards on your machinery.

Please pay attention to these signs for your own safety

Safety signs should be maintained and replaced when necessary. They can often become dirty, torn or unreadable due to dirt and wear and tear.

If you need a replacement sign or have lost your user manual, please contact your Hi-Spec authorised dealer or Hi-Spec Engineering directly and we would be happy to issue you with a replacement.

General Safety

- Keep a first-aid kit and a fire extinguisher close by at all times, if possible, on your tractor with this operator instruction manual.
- Have an emergency plan.
- Keep all emergency numbers close by; write them into your manual.
- Inspect your machine carefully each time before use; this will only take a minute.
- Stop machine when leaving unattended.
- Children should never be in the area when your Spreader is in operation.
- Using a Side Spreader is a one-man operation therefore there should be no other person(s) in the vicinity of the machine while in use.
- Remember that the first step to avoiding danger is to recognise the hazards.

Safety Checklist

- ✓ Always disconnect all power sources before carrying out any adjustment or maintenance.
- ✓ Always check inside the machine to make sure it is empty.
- ✓ Always check around the machine making sure everything is in order; this will only take a minute.
- ✓ Study this manual. Provide training to new users. Like all farm machinery, any machine is potentially dangerous when under the control of untrained personnel.
- ✓ Exercise extreme care when loading the machine.
- ✓ Always ensure guards and other safety devices are kept in good working order. Replace if necessary.
- ✓ Keep clear of all moving parts.
- ✓ Always connect the shear bolt end of the PTO shaft to the tractor.
- ✓ Always use shear bolts recommended to you by Hi-Spec Engineering.
- ✓ Always keep all hydraulic hoses and electric cables clear from PTO shaft.
- ✓ Always apply the handbrake before unhitching and park the machine in a level area.
- ✓ Always take extra precautions when using the machine on hilly or sloping ground.
- X Never permit young persons or spectators to operate PTO driven equipment or stand anywhere close by when the machine is in operation.



- X Never permit untrained personnel to operate the machine without reading this manual and or receiving training.
- X Never operate the machine without having all guards in place; they are there for your safety and protection against serious injury and death.
- X Never remove guards while there is still power going into the machine, all power must be off!
- X Never enter the machine while in operation.
- X Never wear loose clothes when operating machinery, if standing too close, your clothing can pull you into the machine.
- X Never operate the machine if you think there could be large stones or foreign objects inside, they could cause serious damage to your machine.
- X Never leave the machine running when unattended.
- X If the machine should become blocked with a stone or foreign object, do not attempt to free the object while the tractor is running.

Description of Safety Warnings and Instructions

The following is a list of safety signs and warning labels on the Hi-Spec Side Spreader. Look carefully and make sure you know where on the machine they are positioned and what they mean.

It is important you are fully aware of the areas of risk on your machine.

Keep a safe distance from the revolving Rotor while feeder is in operation.



Do not stand between the machine and the tractor while the PTO is in operation.

Keep clear of machine while working.



This safety sign is to remind the operator to disengage the PTO before turning



General danger sign. There is a danger of rotating parts and foreign objects.

Keep clear of machine while working.



PTO Shaft Safety

The PTO shaft is a vital link in driving the machine. It is also a very dangerous piece of equipment, therefore it is important to follow the manufacturer's guidelines on maintenance and repair. These guidelines are fixed to the PTO when new. They should be removed, read carefully and then stored with this instruction manual for future reference. If the guidelines are missing from the PTO Shaft please contact your Hi-Spec dealer for another copy.

The irregular shape and connection joints of a turning shaft can cause serious injury. The rotational force of the shaft is the main hazard.

Do not wear loose fitting clothing or articles such as jewellery that might get caught in a turning PTO. The rotation of the PTO is 540 rpm when spreading. Accidents can happen very fast therefore keep a safe distance from the shaft when it is in use.



PTO Shafts account for most of tractor related fatalities.

**Make sure the shaft is guarded.
Replace the guards when they are
Damaged or missing.
Never use the machine with
Damaged or missing guards
In an emergency situation, take the PTO
Out of gear, stop the engine and set the brake.**



Getting Started

Tractor Requirements

Horsepower

As standard for the 800 model – minimum of 75 HP (it is possible to reduce this to 65 HP if required using different gearing)

As standard for the 1000 model – minimum of 90 HP (it is possible to reduce this to 80 HP if required using different gearing)

Hydraulic Requirements

1 single acting spool valve

Connecting to Tractor

1. Two double acting valves are required on the tractor.
2. Connect brake connection to the tractor.
3. Connect tail light plug to the tractor.
4. Adjust the spreader drawbar to ensure that the spreader is level or high to the front when attached to the tractor. Adjustment options are shown in Fig. 1
5. Connect PTO shaft to tractor making sure that shaft guard chains are anchored. Please ensure the PTO is the correct length (As detailed in 'Fitting PTO shaft')

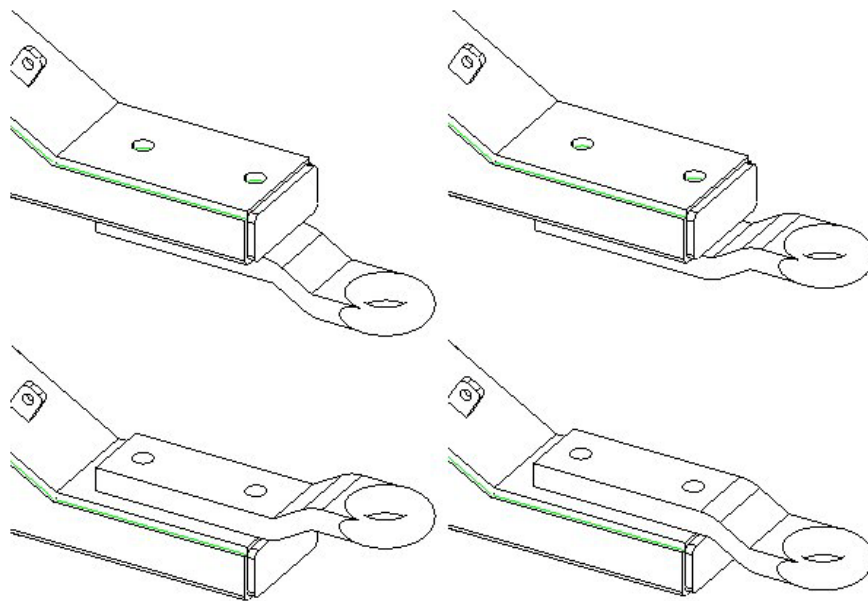
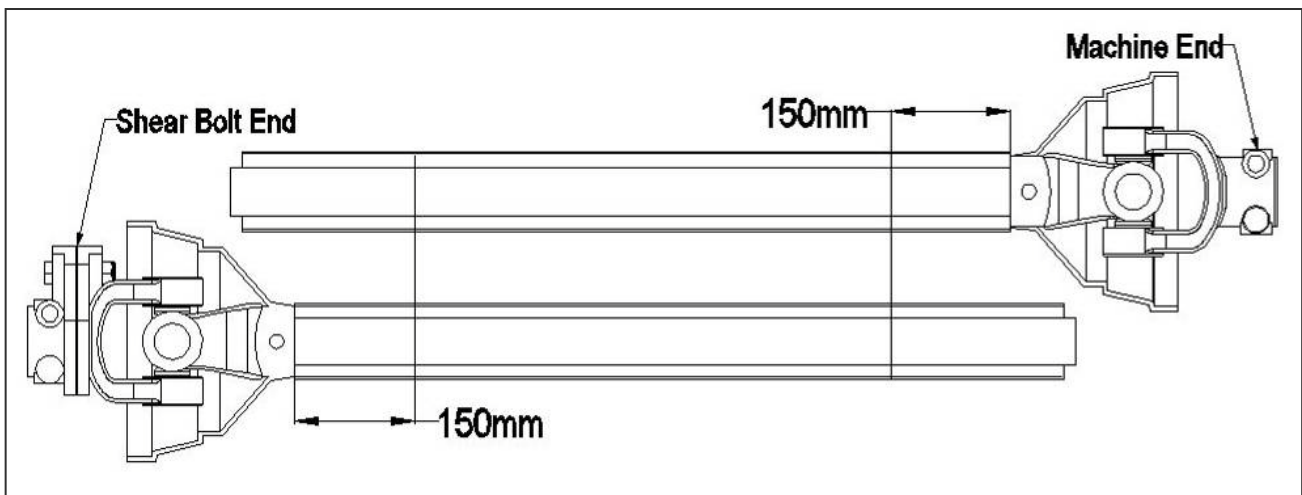


Fig. 1

	<p>The operator MUST be competent in the use of the machine. By competent we mean they have obtained certain knowledge by training and are proficient in using the machine.</p>
	<p>Always keep all hydraulic hoses and electric cables clear from the PTO shaft.</p>

Fitting PTO Shaft

- Turn the tractor to full lock to either the left or right to get the shortest point of the PTO shaft.
- Slide the PTO apart and fit the half with the shear bolt to the tractor and the other end to the machine.
- Lift the two parts of the PTO shaft up so that they are level with each other.
- Mark 150 mm (6") back from each other as shown in the diagram below.
- Cut off the excess profile.



Road Transportation

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

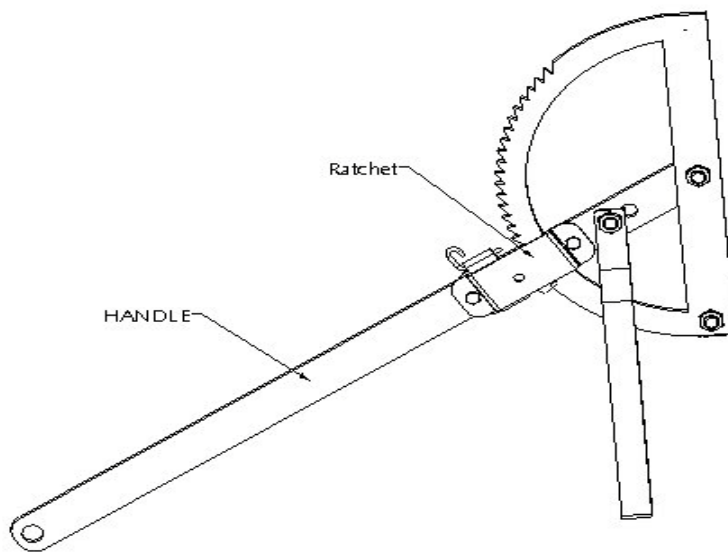
- Ensure brakes are connected and working correctly
- Ensure lights are connected and working correctly
- Ensure PTO is disengaged
- Observe local maximum road speeds for this type of machine
- Hi-Spec Engineering strongly recommends extreme care to be taken by the operator when travelling on rough roads with a loaded Machine.
- 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

Emergency Breakaway Handbrake

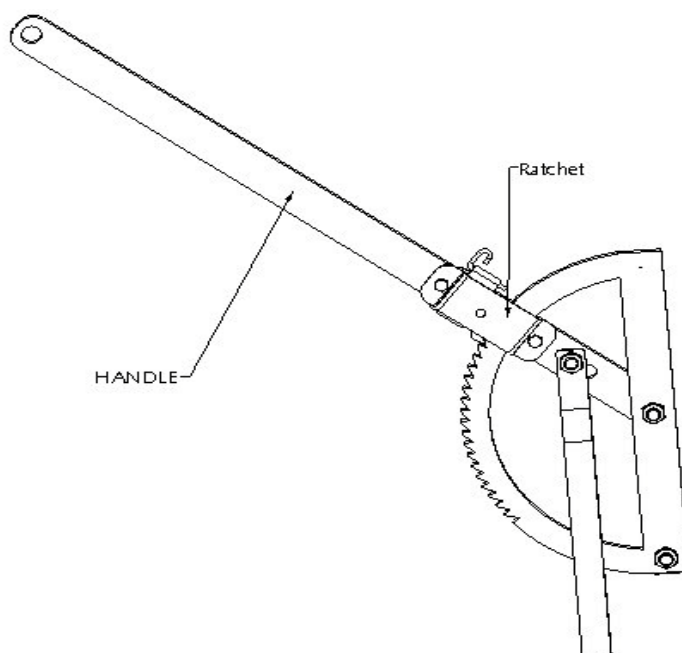
The emergency breakaway handbrake should be connected to the tractor every time the Side Spreader is been used. It should be done using the wire rope provided. The wire rope should be attached to a solid part of the tractor like the top link pin and not to a panel on the tractor.

The wire rope should be tight enough so it will work effectively if the Side Spreader became detached from the tractor but loose enough that the handbrake is not been applied during normal operation.

Handbrake in the off position



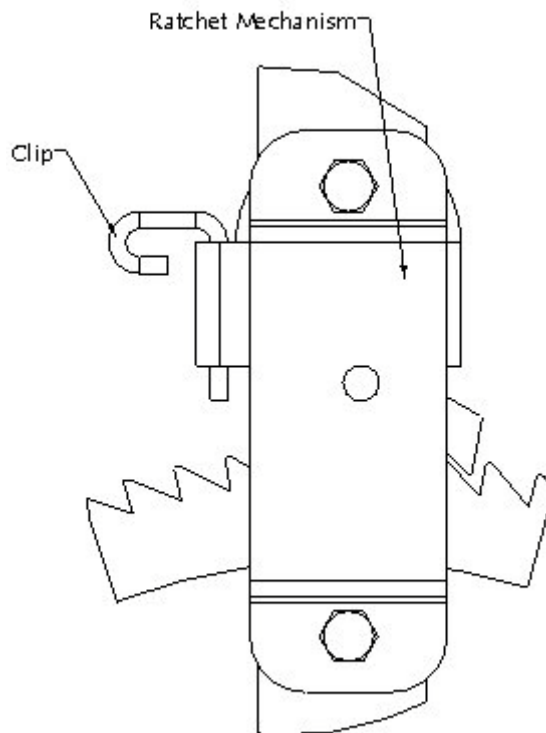
Handbrake in the on position



Disengaging the Emergency breakaway handbrake

It is disengaged by following the steps below:

- Make sure the clip in front of the ratchet is facing forward or turned away from the gearbox on the feeder.
- If the clip is turned towards the gearbox the ratchet mechanism will not release.



- Push the handle towards the feeder so the ratchet becomes tight against the teeth that hold it in place.
- Pull the handle away from the feeder so the ratchet will disconnect itself from the teeth.
- Push the handle back to its original off position.

WARNING: It is important to check that the handbrake be fully released when the spreader is in use. If the brake is left half applied it will cause damage to the brakes on the spreader.

Operating Instructions

1. Disengage the PTO before greasing or making and adjustments
2. Disengage PTO before turning
3. Engage PTO slowly to wrap chains around rotor when starting to spread
4. Rate of spread is controlled by the PTO speed and forward ground movement
5. In liquid manure, it may be necessary to tie up alternate sets of chains
6. When working with low HP tractors, the loose flail plates may be removed







Loading Instructions

7. Make sure the spreader is parked on level ground and that the handbrake is applied
8. For liquid manure, fill to the lip of the spreader
9. For solids, do not overload the spreader, if the spreader is overloaded the rotor will turn but may not be able to spread the material

Maintenance

Correct Maintenance and Inspection Procedures

- ✎ Learn how to service your machine correctly.
- ✎ Follow the correct maintenance and inspection procedures shown in this manual.
- ✎ Inspect the machine daily before starting.
- ✎ Walk around the machine checking general appearance.
- ✎ Check for loose or missing parts.
- ✎ Always disengage the PTO and stop the tractor engine before greasing and making any adjustments.
- ✎ Never operate the machine without safety guards in position.

	<p>During operation, some parts of the hydraulic system can become hot; allow the machine to cool down before beginning inspection or maintenance procedures.</p>
	<p>Damage, including damage caused by insufficient greasing, is not covered by the warranty.</p>
	<p>Installing, doing periodical maintenance and performing repairs may only be done by technically skilled person unless otherwise indicated.</p>
	<p>When repairing, maintaining and cleaning always shut down the motor, remove ignition key and carefully observe the instructions in the manual.</p>
	<p>Always use the correct tools and wear gloves when performing any maintenance. If working on a hoisted machine always ensure decent support.</p>
	<p>If there is a problem with the machine contact your local Hi-Spec Dealer or Hi-Spec Engineering Ltd directly.</p>

Greasing Points

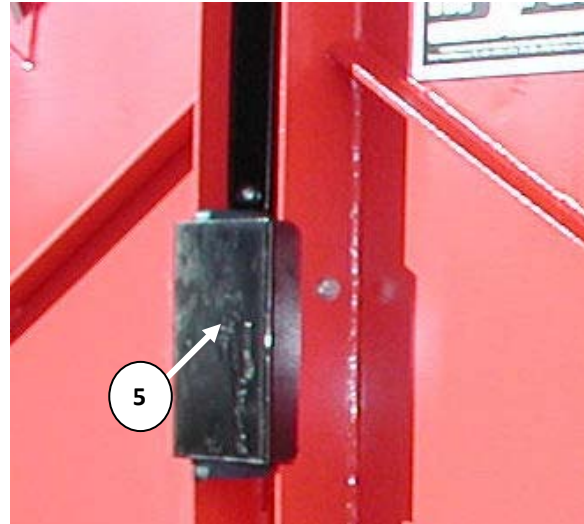
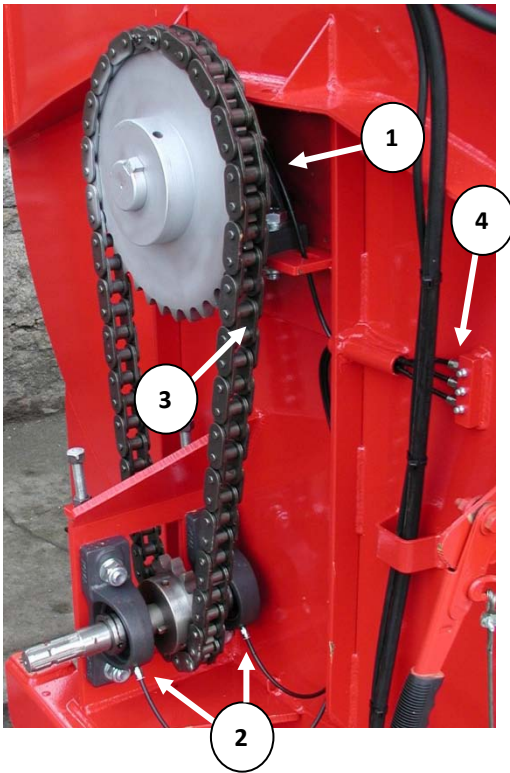


Image shows machine with central greasing point (optional) (no. 4)

Nos. 1 and 2 do not require greasing on machine fitted with a central greasing point

No. 3 does not require oiling on machines fitted with an auto oiler.

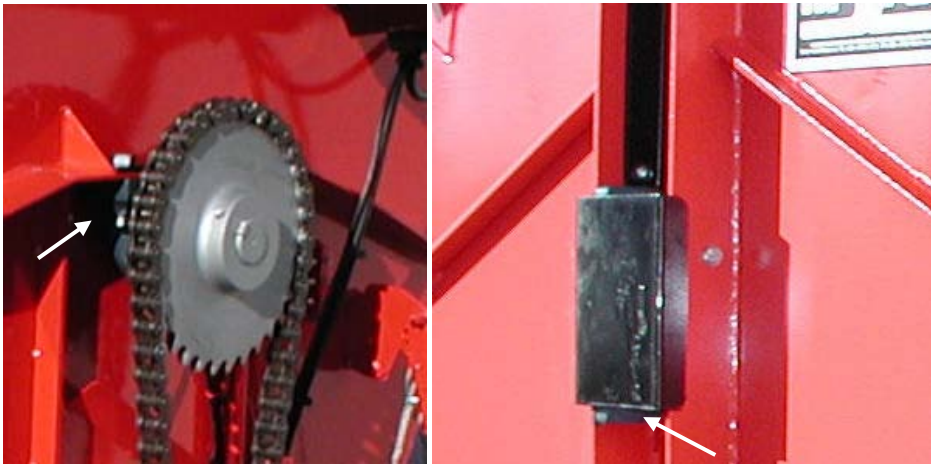
	Description	Grease	Operating hours
1	Front Rotor Bearing	Solid	8
2	Input Shaft Bearings	Solid	8
3	Main Drive Chain	Gearoil (universal tractor oil)	25
4	Central Greasing Point (optional)	Solid	8
5	Rear Rotor Bearing	Solid	8

This symbol is found on each greasing point on the machine.



Daily Maintenance

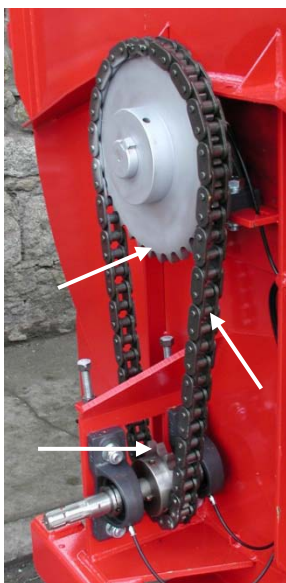
1. Grease bearings on the rotor tube



2. Grease universal joints and sliding tubes on the PTO shaft
3. Check rotor and tighten all bolts and replace all damaged or missing chains or plates
4. Check tightness of wheel nuts, Wheel nuts should be tightened diagonally using a torque wrench - Standard 510 Nm

Weekly Maintenance

1. Check studs on the rotor tube
2. Grease drive chain and sprockets



3. Oil hinges on lids



4. Check free play on drive chain and adjust if necessary



NOTE: Ensure sprockets are in alignment

Wheel removal/refitting

Due to the size and weight of trailing agricultural machines special precautions must be adhered to when removing or replacing a tyre and wheel assembly. It is strongly advised that if a tyre is punctured or damaged any repair work is carried out by a skilled professional tyre fitter.

It is advised that before any work is carried out;

- If the machine is a hazard on a public road that suitable warning is provided to other road users;
- The machine is emptied and moved to a level area with good solid ground;
- The machine wheels are chocked and it is hitched to a tractor with its parking brake effectively engaged;
- A jacking / lifting / supporting position is chosen to maintain maximum machine stability;
- The load at the jacking / lifting point is known;
- The jacking / lifting equipment has sufficient lift capacity and is adequately maintained for the task;
- Ground conditions at the jacking point can withstand the loading;
- The hydraulics of any Forklift Truck / Telescopic Handler / etc, deployed are not solely relied upon while working in the danger zone;
- An adequately rated axle stand or other prop is positioned following the same safety procedure as for choosing the jacking point;
- There is no possibility of slippage between the safety prop (axle stand or other adequate strength support) and the machine;
- As far as possible those involved in the task stay clear of the danger zone (crush area if the machine were to collapse off its temporary support);
- Where possible, mechanical aids are used to lift / position wheels;
- High visibility clothing is worn where appropriate and where possible the work is carried out away from live traffic;
- Please consult your local Hi-Spec dealer or contact Hi-Spec Engineering Ltd directly if there are any queries.

Troubleshooting

Chain Flail Shortening

The Side Spreader chain flails can be shortened when they have lengthened due to wear on the links. As shown in Fig.1. Insert a bolt in the corner of a link and tighten. The bolt should be positioned on the 'back' side of the chain so it will be protected from stones etc. when the machine is operating.



Figure 1

Sales and Service

Ireland

Head office

Hi-Spec Engineering Ltd., Station Rd, Bagenalstown, Co. Carlow, Ireland

Tel: - +353 59 9721929 Fax: - +353 59 9721980

Email: - sales@hispec.net or info@hispec.net

After Sales Service

Contact: - Brian McArdle, Hi-Spec Engineering Ltd. Tel: - +353 87 2562963

Email: - Brian@hispec.net

Machine Servicing

Contact: - Michael Brennan, Hi-Spec Engineering Ltd. Tel: - +353 87 2403312

Spare Parts Store

Contact: Mike Nolan or Terence Byrne, Hi-Spec Engineering Ltd.

Tel: - +353 59 9721929 Fax: - +353 59 9721980

Email: - stores@hispec.net

U.K.

After Sales service:

Wales, Midlands & South West England

Contact: - George Reed, Hi-Spec Engineering Ltd. Tel: - +44 7802 652139

Email: georgereed@hispec.net

East & South East England

Contact: - John Molton, Hi-Spec Engineering Ltd. Tel: - +44 7825 330887

Email: - john@hispec.net

Northern England & Scotland

Contact: - Paul McUrick, Hi-Spec Engineering Ltd. Tel: - +44 7810 040100

Email: - paul@hispec.net

For spare parts

Contact: - Your local Hi-Spec dealer. If you require a contact name and number you can telephone head office and we would be glad to assist you.

Warranty

The following is a list of warranty terms. Warranty claims will be disallowed if they do not fall into the categories shown here.

Warranty Terms

1 Year Warranty on Drive System, Bearings and manufacturing defects

Subject to conditions of sale

NO Warranty on the following:

- PTO Shafts
- Hydraulic fittings
- Hydraulic hoses
- Chains, Flails and Heads

NO Warranty allowed for breakdowns due to:

- Misuse of the machine, e.g. overloading by the operator
- Lack of maintenance, e.g. failure to carry out regular oiling and greasing of components and bearings where appropriate

Conditions of Sale

General

In these conditions the word "Company" means Hi-Spec Engineering Limited. The word "dealer" means a customer of Hi-Spec Engineering Ltd. Purchasing machines from them for resale at recommended retail prices and the word "first user" means the first person to whom the dealer sells any goods for actual use. The company's employees may negotiate orders and issue quotations but an order is only binding on a company when it has acknowledged the order in writing on the company's official acknowledgement forms.

Such acknowledgement and confirmation will only be given subject to these conditions of sale. The acceptance of delivery of the goods either at the dealer's premises or those of the first user if delivered direct to the first user shall bind the dealer and the dealer shall only sell to the first user on conditions which incorporate the company's warranty. If he fails to sell the dealer shall have no claim whatsoever against the company except insofar as the company will honour the warranty to the dealer and through him to the first user. The term goods where used means such articles as are invoiced by the company whether manufactured, imported, distributed or otherwise sold by them.

Delivery

Should the company be prevented from delivering any goods owing to any lockout, strike, weather conditions, or other exceptional causes occurring either at their own premises, or elsewhere, then delivery shall be postponed until a reasonable time after the occurrence has ceased to cause delay, unless the parties shall mutually agree to the cancellation of the contract in respect of such goods.

Cancellation of Orders

The only ground for acceptance of a cancellation of an order shall be the non acceptance of these terms and conditions by the dealer and then only if

Within seven days of receiving notification of the terms and conditions the dealer notifies the company in writing of its non-acceptance.

The dealer pays the company any losses suffered including any carriage charges if these have been incurred.

Delays

While every effort has been made to adhere to delivery dates or times quoted by the company, such dates or times given though given in good faith are mere estimates only. The company accepts no responsibility for delay in delivery or for the consequences of such delay however caused nor shall the dealer be entitled to reject goods thereof by reason.

Design

No responsibility is accepted for any deviation from drawings or from illustrations in catalogues, price lists, brochures or advertising material for discrepancies in weight, rated outputs. Performance from those mentioned here in which shall be treated as illustrative and approximate only.

Price

Any fluctuation in prices arising after the contract but before dispatch shall entail adjustment in the contract price and the price to be paid shall be fixed at the date of dispatch.

Damage, Shortage or Loss

The company do not accept any responsibility for any damage, shortage or loss in transit when goods are dispatched to instructions and where the transit is affected through a third party and not by the Company itself.

Conditions of Resale

The dealer shall only re-sell any of the company's products with the full and unaltered warranty that is issued with every machine invoiced by the company. If the dealer either through negligence or for any other cause fails to get the agreement of the first user to accept this warranty the dealer shall have no other recourse against the company except that contained in these conditions of sale and he dealer expressly agrees that in accepting delivery he has recourse in law against the company nor will he join the company as third or other party in any action which results against him from the resale of the company's products.

Warranty

The Company warrants its products through the dealer and through the dealer to the first user. The dealer shall only re-sell the company's machines with the benefit of the company's warrants. The said warranty is as follows:

The company warrants, subject as hereinafter provided, that all new goods supplied by it shall be free from defects in material and workmanship, its liability under such warranty being limited to making good at a factory to be nominated by it, such parts or parts which shall within twelve calendar months from the date which the product was delivered new to the retail purchaser be returned to the company or its authorised representative which the company is satisfied on its examination of the part or parts to have been defective in material or workmanship provided that. All replaced parts shall become the property of the company.

The foregoing warranty does not extend to any product which shall have been repaired, altered, neglected or used in any way so as, in the judgement of the company (whose decision is final) may have adversely affected its stability or reliability, nor does this warranty apply to proprietary articles, accessories or parts not manufactured by the company but where any such warranty is given by the manufacturers of such articles, accessories or parts any benefits under such warranty will be passed on by the company.

The company will not be responsible for damage or loss caused by incorrect machine settings, ground speed or operation of the machine in unsuitable conditions and the company's decision as to the suitability of the condition shall be final. Fair wear and tear is excluded from any claim and no responsibility whatsoever is accepted for damage, which in the company's Opinion is caused by hazards of soil, stones or foreign objects.

The warranty is transferable to a second or subsequent owner (within the warranty period) subject to the company being notified in writing of this change of ownership.

Complaints referring to faulty or incomplete deliveries or to obvious faults must be notified to the dealer in writing within fourteen days after receipt of goods. In the absence of such notification delivery shall be considered as having been accepted as in good order and condition.

The company does not give any warranty in respect of its goods except therefore going Warranty which is given expressly in lieu of and excludes all other warranties and conditions expressed or implied whether under common law, Statute or otherwise and every form of liability for loss or damage direct or consequential or for any accidents resulting from defective material faulty workmanship or otherwise, is expressly excluded.

Liability

In no circumstances whatsoever shall the Company's liability (in contract, tort or otherwise) to a buyer under, out of or in connection with this contract or the goods supplied exceed the invoice price of the particular goods in regard to which component is made.

Title of the Goods

The title in the goods shall not pass to the customer until the customer shall have discharged all sums due by the customer to the company at the date of the final handing over of the possessions of goods

Interest

If the customer shall fail to pay any sum due in foot of this transaction within fourteen days after the same shall become due, the customer shall pay interest thereon calculated from the due date of payment at the annual rate equal to 4% over the prime rate charged from time to time by the associated banks on secured loans to individual customers.

Registration Forms



Hi-Spec Engineering Ltd.
Station Rd., Bagenalstown,
Co. Carlow, Ireland
Tel: - 059 9721929
Fax: - 059 9721980

Please complete the following forms in full.

The first is a warranty registration form; this form is issued in accordance with our conditions of sale and with particular reference to the condition governing warranty. We cannot process a claim unless all particulars are supplied.

The second is an acceptance form, which the purchaser is asked to sign to acknowledge he/she has received a copy of the Operator manual and full training for the machine purchased.

Please do not sign if you have not received both of these.

Warranty Registration

Date of Purchase: _____
Purchaser's Name: _____
Signature: _____
Address: _____
Phone: _____
Dealer's Name: _____
Signature: _____
Address: _____
Phone: _____
Machine Type: _____
Machine Model: _____
Serial Number: _____

Training & Operator Manual Registration

Please sign the following declaration to state that on the day you (the purchaser) purchased a Hi-Spec Side Spreader you received an operator manual and training instructions.

I, the purchaser have received my Hi-Spec Side Spreader Operator Manual and training from the below dealer

Purchaser: _____	Signature: _____
Date: _____	
Dealer: _____	Signature: _____
Date: _____	

This copy is to be kept in your manual for your reference.



Registration Forms



Hi-Spec Engineering Ltd.
Station Rd., Bagenalstown,
Co. Carlow, Ireland
Tel: - 059 9721929
Fax: - 059 9721980

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Warranty Registration

Date of Purchase: _____
Purchaser's Name: _____
Signature: _____
Address: _____
Phone: _____
Dealer's Name: _____
Signature: _____
Address: _____
Phone: _____
Machine Type: _____
Machine Model: _____
Serial Number: _____

Training & Operator Manual Registration

Please sign the following declaration to state that on the day you (the purchaser) purchased a Hi-Spec Side Spreader you received an operator manual and training instructions.

I the purchaser have received my Hi-Spec Side Spreader Operator Manual and training from the below dealer.

Purchaser: _____	Signature: _____
Date: _____	
Dealer: _____	Signature: _____
Date: _____	

This copy is to be posted to Hi-Spec Engineering or given to your dealer



Declaration of Conformity

EC Machinery Directive

2006/42/EC

We hereby certify that the machinery stipulated below complies with all relevant provisions of the EC Machinery Directive and the National Laws and Regulations adopting this Directive.

Modifications to the machine without prior approval from the undersigned will render this declaration null and void.

Machine Description and Function:	Manure Spreader designed for use of transporting and spreading agricultural manure
Make:	Hi-Spec
Model:	800 / 1000
Serial Number:	
Manufacturer:	Hi-Spec Engineering Ltd.
Address:	Station Rd, Bagenalstown, Co. Carlow, Ireland

Technical file compiled by: Derek Whelan, Myshall, Co. Carlow

Harmonised standards applied:

EN ISO 12100-1:2003, Safety of machinery Part 1: Basic terminology, methodology

EN ISO 12100-2:2003, Safety of machinery Part 2: Technical principles

EN ISO 4254-1:2005, Agricultural machinery -- Safety -- Part 1: General requirements

BS EN 690:1995, Agricultural machinery, Manure spreaders, Safety

Signed: _____

Date: **6th June 2010**

Name: **Mike Nolan**

Position: **Managing Director**

Being the responsible person appointed by the manufacturer.

Hi-Spec Engineering reserve the right to make changes and improvements at any time without incurring any obligation to make such changes on products previously sold.