



# **CHASER BIN OPERATORS MANUAL**

**From Serial No. CB2711**

**To Serial No. CB6612**



Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

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## INTRODUCTION

Davimac thanks you for purchasing one of our products.

The range of Davimac Chaser Bins has been developed to cater for the needs of the progressive farmer. Davimac has drawn on its years of experience in the harvesting industry to build a range of chaser bins that have a superior build quality, with heavy duty frame construction, and high quality drive systems. You are assured a quality built product for the farmer who only wants the best.

It is the responsibility of the user to understand the operation, safety, maintenance and lubrication before operating the Chaser Bin. It is the user's responsibility to check and service the machine as specified in this Manual.

This manual will familiarise you with safety, assembly, operation, adjustments, maintenance and troubleshooting aspects of the machine.

By reading this manual, and following the recommendations within it, you will help to ensure safe and efficient operation, as well as years of satisfactory use from the machine.

### Models Covered in this Manual

- 18/25/30 Ton Single axel
- 25/30/35 Ton Dual axel

### Description of Unit

Our dedication to building a quality Davimac Chaser Bin is represented by our standard features. One of the best parts of owning a Davimac Chaser Bin is that you can unload your combine on the go and increase harvest efficiency - saving valuable time and money. It's tough and sturdy design ensures strength and durability for the farmer who only wants the best.

- Class leading design.
- A low 3.3m loading side height enhances on-the-go-transfer efficiency.
- The rugged drive train design combines a hydraulic drive 15" and 20" cross auger and a heavy duty direct drive gearbox for the 15" and 20" vertical auger.
- Steep bin sides, so even hard to flow grains will flow.
- Easy clean out - bin design eliminates places for grain to sit.
- The axel is rated to 34 tonne(40 tonne on 30 ton single axel) (80ton on the dual axel).
- Unique heavy duty chassis puts the Davimac Chaser Bin in a class of its own.

### Advantages of owning a Davimac Chaser:

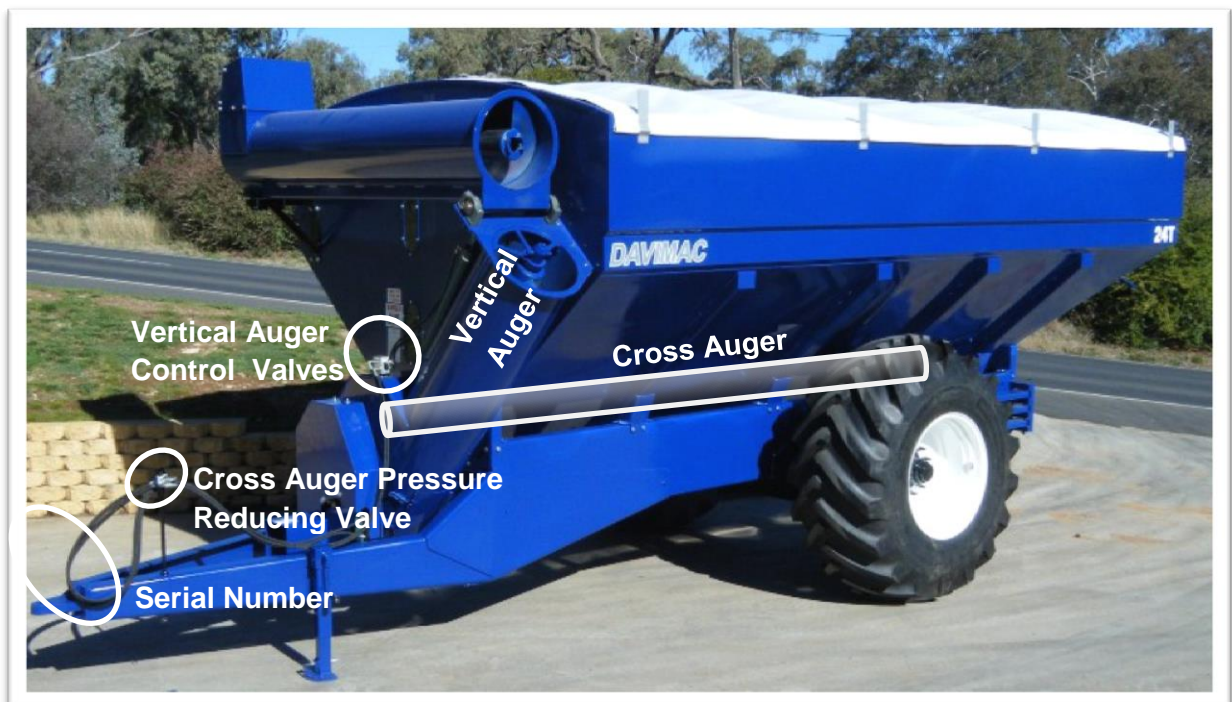
- Increased header capacity up to 30%
- Able to harvest in wetter conditions.
- Less wear and tear on header running across fields
- A product that is built to last.
- Less compaction (no trucks in the fields).

### Standard Features:

- Capacity: Sizes range from 18 tonne to 35 tonne.
- The 15"/20" auger is driven by a heavy duty gearbox.
- Heavy Duty frame manufactures from 6.4mm, 10mm and 16mm plate with all structural joints plated for greater strength.
- The bin is constructed of 3mm sheet in the sides and 6.4mm plate in the front and back of the bin. The bin has a full length clean out slide and steep 55 degree sides so that the bin empties completely.
- Heavy duty floatation wheels are fitted. On the 18 tonne bin 30.5x32 16 ply tyres are fitted and on the 25/35 tonne bin 800/60 R32 tyres are fitted as standard or 900/60R32 tyres can be fitted to give superior floatation.
- The 15" vertical auger has a 6.4mm flight and the 20" vertical auger has a 10mm flight. These heavy gauge flights combined with a 3mm barrel ensure long life. The cross auger has a large 165mm pipe so there is no need for troublesome middle bearings and also has a 6.4mm flight.

### Options:

- Auger mounted work light.
- Spout for filling auger hoppers.
- Hydraulic drive.
- 3 metre wheel centres.
- Rear lights with revolving light.
- Freight available if required.
- Scales



## WARRANTY

Davimac Pty Ltd warrants against defects in materials or workmanship for 1 year from date of delivery.

Davimac Pty Ltd reserves the right to inspect and decide whether material or workmanship was the cause of the fault, or whether the fault was as a result of abuse, accident, misuse or improper maintenance or servicing thus voiding warranty.

Warranty service must be undertaken by a dealer or service centre approved by Davimac Pty Ltd. Warranty service will be performed without charge to the purchaser if the warranty claim is valid. If the original purchaser sells or transfers this product to a third party the warranty does not transfer to the third party in any way.

To process a warranty claim first contact the dealer who sold the unit and provide the serial number of your unit and details of the problem you are experiencing. The dealer will then contact Davimac Pty Ltd to get approval to assess your machine and to proceed with any warranted repairs.

Davimac Pty Ltd will provide replacement parts and repairs but does not cover additional costs incurred for travel and transport beyond work at the approved service location. Excluded from warranty are travel, transport and labour costs for repairs or replacement parts when the owner elects for these to occur at a location other than at an approved service location.

Davimac Pty Ltd reserves the right to make product design changes at any time without notice. They shall not be obligated or liable for the replacement of previously sold products that do not match design updates included in latest models.

Note: Davimac Pty Ltd does not warrant faults relating to wheel nut tightness. It is the responsibility of the operator to check and maintain wheel nut torque on a regular basis. (Refer to the Maintenance section of this manual for requirements).

## Serial Number

The serial-number plate is stamped onto the top of the pitch plate.

Record your chaser bin model and serial number on the front cover of this manual for quick reference.

Quote this number when ordering spare parts, or when you require service.





## SAFETY

Safety is the responsibility of the operator to know how to operate and service the machine.

Thoroughly read and understand the instructions in this manual before operating or servicing the machine. Read all instructions noted on the safety decals.

Below are identified safety points. Identified safety risks can never be considered comprehensive and the operator should always do a safety evaluation of the machine within the operating environment before operating the machine.

### General

- Be familiar with all chaser bin functions.
- Operate machinery from the driver's seat only.
- Do not leave chaser bin unattended with tractor engine running.
- Do not dismount a moving tractor.
- Always look up for power lines before raising the vertical auger.
- Always look for trees and other obstacles before raising your vertical auger.
- Keep hands, feet and clothing away from power-driven parts.
- Wear snug-fitting clothing to avoid entanglement with moving parts.
- Make sure all persons are clear of working area.
- Do not turn tractor too tightly, causing chaser bin to ride up on wheels. This could cause personal injury or equipment damage.
- Do not break suddenly and always make sure you brake when driving in a straight line to avoid risk of jack knifing.
- Never permit any persons other than the operator to ride on the tractor.
- Never ride on the chaser bin or allow others to ride on the chaser bin.
- Do not allow anyone to stand between the hitch and towing vehicle when backing up to the chaser bin.
- Do not operate or do maintenance on the chaser bin unless you are trained to do so.
- Before doing any maintenance do a safety evaluation.
- Do not service the hydraulics while there is pressure in the system.

Throughout this manual, important safety information is indicated by these symbols.



A Blue Caution indicates a hazard that may cause damage to property if the caution is ignored.



A Yellow Warning indicates a hazard that could cause injury or death if the warning is ignored.

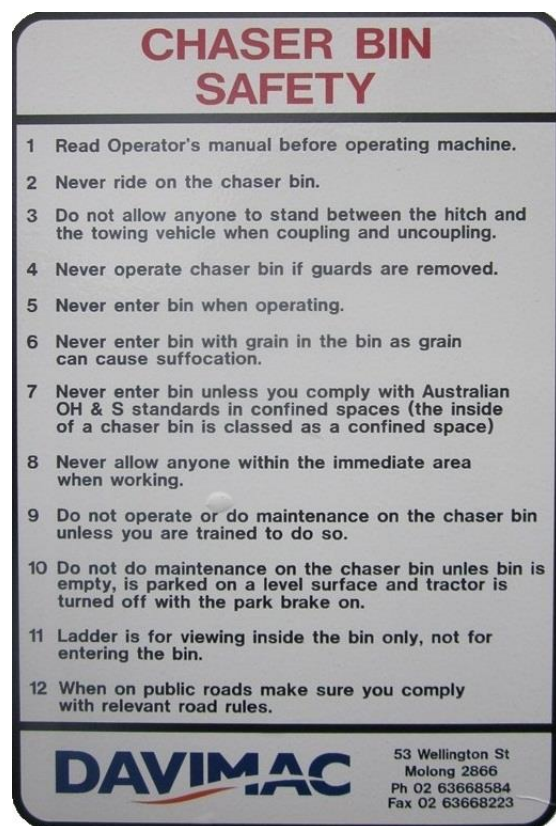
## Protective Equipment

Wear protective clothing and equipment.

- Wear clothing and equipment appropriate for the job.
- Avoid loose-fitting clothing.
- Wear suitable hearing protection such as earmuffs or earplugs.
- Avoid wearing radio headphones while operating machinery.

## Safety Decals

- Read all instructions noted on the decals.
- Keep decals clean.
- Replace damaged, faded and illegible decals.



## High Pressure Fluids



Warning - High Pressure Fluid Hazard: Escaping fluid under pressure can have sufficient pressure to penetrate the skin. Check all hydraulic lines and fittings before applying pressure. Fluid escaping from a very small hole can be almost invisible. Use paper or cardboard, and wear heavy gloves to check for suspected leaks. If an accident occurs seek immediate medical assistance.

- Avoid the hazard by relieving pressure before disconnecting hydraulic lines.
- Use a piece of paper or cardboard to check for suspected leaks.
- Wear protective gloves and safety glasses or goggles, and other appropriate safety equipment when working with hydraulic systems.
- If an accident occurs seek medical assistance immediately.

## Tyre Safety



Tyre changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

- When inflating tyres, use a clip-on nozzle with an extension hose long enough for you to stand to one side of tyre assembly.
- Never walk away while a tyre is inflating. Stay and ensure the tyre is not over inflated.
- When removing and installing wheels, use wheel-handling equipment adequate for weight involved.

## Safe Maintenance

- Understand procedure before doing work. Use proper tools and equipment. Refer to this manual for additional information.
- Always use and wear appropriate personnel safety equipment.
- Work in a clean, dry area.
- Put the tractor in park on flat level ground, turn off engine, and remove key before performing maintenance.
- Make sure all moving parts have stopped and all system pressure is relieved.
- Remove build-up of grease, oil or debris.
- Ensure removal of all tools and unused parts from chaser bin before operation.



## OPERATION AND SETUP

### Tractor Requirements

Check that tractor compatibility and power are sufficient for the chaser bin and that it has two remote hydraulic outlets. If the unit has the option of a variable hydraulic auger spout or full hydraulic drive you will need an additional outlet for each feature. (eg up to 4 outlets may be required).

- For the 15" auger you will need 75 l/min of oil flow.
- For the 20" auger you will need 120 l/min of oil flow (35 ton 20" will need 135 l/min).
- For the 15" full hydraulic drive you will need 150 l/min of oil flow.

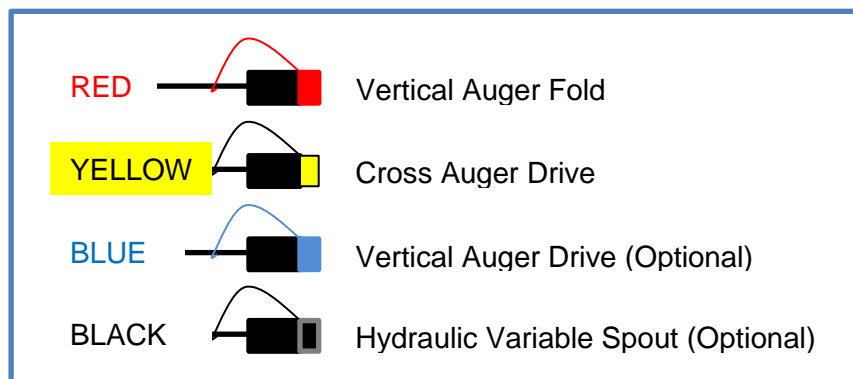
Note the chaser bin loaded weights for each model are listed in the specifications section of this document.

### Hitching Tractor to Chaser Bin



**Warning – Crushing Hazard: When hooking chaser bin to the towing vehicle the operator has the responsibility of safety for other persons in the area. Persons should not stand in between tractor and chaser bin. Stop tractor engine and set park brake before installing the hitch pin.**

1. Make sure the tractor and chaser bin are on level ground.
2. With chaser bin tongue level, adjust chaser bin hitch on tongue to match your tractor-drawbar height.
3. When chaser bin hitch matches tractor-drawbar height, hitch chaser bin to tractor.
4. Securely attach chaser bin safety chain to an anchor on tractor capable of pulling chaser bin load.
5. Attach PTO shaft. Ensure guards are in place and in good working condition.
6. Connect hydraulic hoses which are colour coded to help with connection:



**Warning – High Pressure Fluid Hazard: Escaping fluid under pressure can have sufficient pressure to penetrate the skin. Check all hydraulic lines and fittings before applying pressure. Fluid escaping from a very small hole can be almost invisible. Use paper or cardboard, and wear heavy gloves to check for suspected leaks. If an accident occurs, seek immediate medical assistance.**

7. Raise the jack.



Caution: When towing check that the safety chain is attached.

Caution: When towing on public roads check that you comply with all road rules

Caution: When loaded do not exceed 10 km/h

## Transporting

1. Fold up discharge chutes.
2. Locate jack stand in transport position.
3. Maximum towing speed 30 km/h when empty.
4. Ensure towing vehicle requirements are adequate for the towed vehicle e.g. mass / brakes etc.
5. Braking when towing can cause the load to jack knife. Use extra care when towing in adverse conditions such as mud, inclines and sharp bends.
6. Lower towing speeds are recommended on farm roads/tracks and where one wheel is on or over a road verge.
7. Attach safety chains to tractor. Note: The safety chains are provided with sufficient length to cater for all towing vehicles. Safety chains must be shortened by cutting off excess length so that if the coupling fails the drawbar will not hit the ground.

## Pre Start Checklist

1. Check wheel nuts are tight.
2. Check tyre pressure is as specified within this manual.
3. Check for oil leaks.
4. Check that no foreign objects are in the chaser bin.
5. Check the chassis for cracks or damage.
6. Ensure PTO shaft guards and all other guards are in place and in good working condition.

## Field Operation



Caution: The chaser bin needs to be filled evenly so that the loading to the tractor hitch does not tend to lift or put downward force on the hitch connection.

Caution: When loaded do not exceed 10 km/h

Caution: You cannot turn or be on an angle when the PTO shaft is engaged. This will cause damage to your universal joint.

To start the augers:

1. Check for power lines, other augers, trees or other equipment and obstacles.
2. Once you have come to a stop you are ready to fold your auger out.
3. Fold out auger using hydraulics.
4. Engage the PTO to start the vertical auger whilst the tractor is idling.
5. Start the cross auger with hydraulics.
6. Increase tractor RPM to desired speed.

To stop the augers:

1. Reduce tractor RPM to idle.
2. Disengage hydraulic drive for cross auger.
3. Once the vertical auger is empty disengage the PTO drive.
4. Fold down vertical auger. It is advised to wait 30 seconds for residual grain to flow back down the auger.

Emergency Stop Procedure:

1. In an emergency you can disengage the PTO drive which will stop grain flowing immediately.
2. Then disengage the hydraulic drive for the cross auger.

NOTE: You will need to restart the augers and follow the correct stop procedure to be able to fold the vertical auger up.



Caution: The emergency stop should not be used unless necessary as it causes grain to compact at the base of the auger which will cause premature wear to your machine if done regularly.

## MAINTENANCE AND LUBRICATION

### Maintenance

Proper servicing and maintenance is the key to long implement life. With careful and systematic inspection, you can avoid costly maintenance, downtime and repair. Always turn off and remove the tractor key before making any adjustments or performing any maintenance.



Warning – Crushing Hazard: You may be severely injured or worse by being crushed under the falling implement. Always have transport locks in place and frame sufficiently blocked up when working on or under implement.



Warning – High Pressure Fluid Hazard: Escaping fluid under pressure can have sufficient pressure to penetrate the skin. Check all hydraulic lines and fittings before applying pressure. Fluid escaping from a very small hole can be almost invisible. If an accident occurs seek immediate medical assistance.

1. After using the chaser bin for several hours, check all bolts to be sure they are tight.
2. Lubricate areas listed under “Lubrication”.
3. Check tyre inflation as specified in “Tyre Inflation Chart”.
4. Clean out grain from feed bin regularly.
5. Replace any worn, damaged or illegible safety decals.

## Lubrication

Area	Weekly	Half Yearly	Pre-Season
Grease drive line bearings	✓		
Auger Hinge Bearing			✓
Check Gearbox oil and top up if required	✓		
Change Gearbox oil			✓

Note recommended Gear Oil: 80W/90 Gear Oil

## Tyre Inflation Chart

Tyre Size	psi	kPa
30.5 x 32 16 ply	42	289
800/60 R32	49	340
900/60 R32	55	379



Caution: Tyre pressure should be checked weekly

## Bolts and Hardware

Check wheel nuts every day for the first 3 days and weekly after that. Wheel nuts should be tightened to 1025Nm (756 ft-lbs).

Note: Davimac Pty Ltd does not warrant faults relating to wheel nut tightness. It is the responsibility of the operator to check and maintain wheel nut torque on a regular basis.

Check all bolts and hardware after the first 50 hours of use. All fasteners should be checked and retightened as required during an annual service.



Caution: Use only metric tools on metric bolts to avoid damage to bolt heads and to prevent tools slipping and causing injury.

## Torque Chart

Bolt Dia	Class 4.6		Class 8.8		Class 10.9	
	Nm	ft-lbs	Nm	ft-lbs	Nm	ft-lbs
8	8	6	22	16	32	24
10	17	13	44	32	63	46
12	30	22	77	57	109	80
14	51	38	133	98	189	139
16	73	54	190	140	270	199
18	108	80	281	207	399	294
20	143	105	372	274	528	389
24	248	183	640	472	914	674
30	491	362	1314	969	1817	1340

Bolts should only be replaced with higher grade bolts. If replaced by a higher grade bolt then the original bolt torque should be applied.

## Storage



**Warning – Make sure the chaser bin is stored on level ground, with the key removed and all drives disengaged.**

The chaser bin should be stored under cover when not in use for longer life.

1. Unload bin.
2. Thoroughly clean grain residue from the box and auger.
3. Remove any dirt and debris that can hold moisture and cause corrosion.
4. Inspect chaser bin for worn or damaged parts. Make repairs and service during the off season.
5. Use spray paint to cover scratches, chips and worn areas on the chaser bin to protect the metal.

## TROUBLESHOOTING


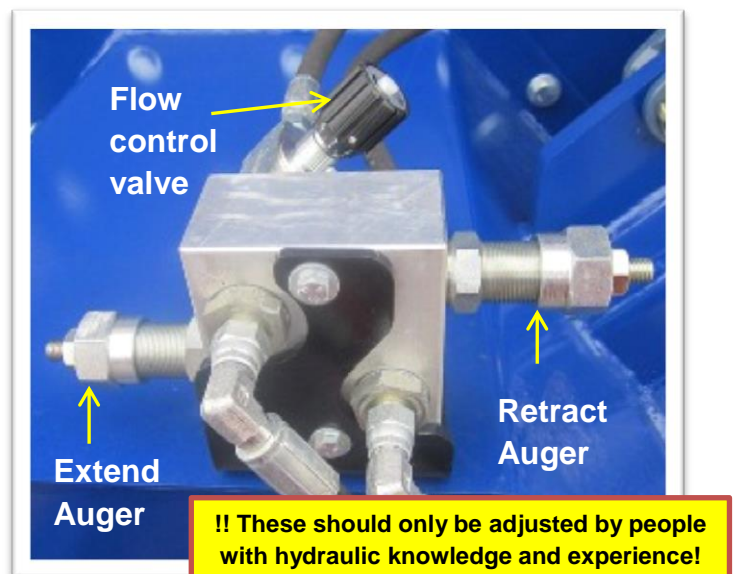
Problem	Possible Cause	Possible Solution
<b>Cross auger not driving</b>	Poor flowing grain (eg Faba Bean, rice)	Turn the pressure up on the pressure reducing valve located in the hydraulic motor lines. (See Figure 1 below)
<b>Slow cross auger operation</b>	Hydraulic flow rate too low	<ol style="list-style-type: none"> <li>1. Turn pressure up on the pressure reducing valve.(See figure 1)</li> <li>2. Tractor does not have sufficient hydraulic flow. Review tractor selection or performance.</li> </ol>
<b>Vertical auger folding is too slow or too fast</b>	Flow control valve set to low	Adjust flow control valve. (Black knob shown in figure 2 below)
<b>Vertical auger not folding</b>	Relief valve set too low	Adjust relief valve. (See figure 2 below) <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p><b>Ensure the correct relief valve is adjusted.</b></p> <p><b>Over adjustment can cause premature wear.</b></p> <p><b>If this valve is not set properly it can cause damage.</b></p> </div> </div>

Figure 1 - Pressure Reducing Valve



Figure 2 - Vertical Auger Control Valve





## SPECIFICATIONS AND CAPACITIES

Capacity:	18 tonne Wheat	25 tonne Wheat	30 tonne Wheat	35 tonne Wheat
<b>Auger Size:</b>	15" (5.5 ton min) Optional 20" auger (12 tonne/min)	20" auger (12 tonne/min)	20" auger (12 tonne/min)	20" auger (12 tonne/min)
<b>Auger Flight Thickness:</b>	6.4mm (20" 10mm)	6.4mm (20" 10mm)	6.4mm (20" 10mm)	6.4mm (20" 10mm)
<b>Auger Spout Height:</b>	4.1m	4.1m	4.1m	4.1m
<b>Bin Side Height:</b>	3.31m	3.31m	3.31m	3.31m
<b>Overall Length:</b>	7.3m	8.8m		
<b>Overall Width:</b>	3.480m (3.850m with 3m axle option)	3.480m (3.850m with 3m axle option)	3.480m (3.850m with 3m axle option)	3.480m (3.850m with 3m axle option)
<b>Tyres:</b>	30.5 x 32 18 ply	800/60 x 32 ply Optional 900/60 x 32 tyres on 3 metre axle	900/60 x 32 tyres. Dual axel 800/65 x 32 tyres	800/60 x 32 ply Optional 900/60 x 32 tyres on 3 metre axle
<b>Wheel Tracks:</b>	2.66m standard 3m optional	2.66m standard 3m optional	2.66m standard 3m optional	2.66m standard 3m optional
<b>Weight (Unloaded):</b>	4.92 tonnes	5.84 tonnes Dual axel 7.4 tonnes	8.2 tonnes Dual axel 9.8 tonnes	10.3 tonnes
<b>Weight (Loaded):</b>	23 tonnes	34 tonnes	40 tonnes	45 tonnes

## SPARE PARTS LIST

Part Description	Part Number
Bearings:	
65 ID – Vertical Auger Bottom	2601003
50 ID – Auger Hinge	2602001
15" Vertical Mid Bearing	0207034
20" Vertical Mid Bearing	0207005
Gear Box	B4667
PTO Shafts:	
- Tractor to Bin	DE8105
- Gear Box to Mid Support	CC8105
Clutch	B6790
Clutch Disc	B3721
Safety Decals:	
- Main Safety Decal	
- Keep Hands Clear	
- Tarp Decal	
- DANGER – Ladder Use	
Augers:	
- Vertical Auger Upper	
- Vertical Auger Lower	
- Cross Auger	
Axles:	
- Standard	0204001
- 3 metres	0204006
Tarpaulin:	
- 18 tonne	Tarp (followed by serial number)
- 25 tonne	
- 35 tonne	
Stub Axle	2203007

## AFTER SALES OPTIONS

Description		Part Number
Load Cells		
Auger Hopper Chute		
Hydraulic Variable Chute		
Rear Lights Set with Revolving Unit		
Auger Mounted Work Light		