



OPERATORS MANUAL

(single acting clutch ram)

Introduction

The SAM Bulk Topdresses have been developed through 25 years experience in manufacturing fertiliser spreading equipment. We manufacture a reliable, ruggedly constructed versatile machine with models to suit a range of farming requirements.

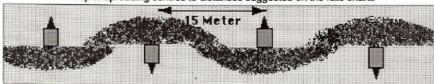
Operation: Back Door Setting / Spreading centres

The sliding door at the back of the bin must first be set to the required sowing rate. With the floor chain speed controlled by the speed of the wheels, the rate is always constant at a given back door setting.

The door settings on the chart are a guide only - all types of manure flow differently and we always recommend spreading the first load into a measured paddock to check the rates carefully. The spreader rate charts printed in this manual are more complete than the chart on the back of the topdresser showing a rate for a wider selection of fertilisers. The spread rates (door settings) are usually very similar for fertilisers of the same density and granule type. Density is measured in tonnes per cubic metre and can vary from N.Z. Urea @ .77 Tonnes per Cubic Metre to Lime @ 1.6 T per Cubic M . We have also included on the chart a selection of BOP Fertilisers with their densities.

Spreading centres are the second important factor to take into account when spreading fertiliser. We suggest on the chart on the back of the bin spreading at 15 metre centres for granulated fert and 10 metres for powdered of very fine granules like lime. We have also shown on our detailed chart spread widths of 12.5 metres. With more expensive high analysis products it is sometimes a good option to select a closer spacing with a lower door setting.

Keep to spreading centres to distances suggested on the rate charts



We suggest

15 m centres for the twin spinner with granulated product (super urea etc.) 10 m for fine or powdered products (Lime).

The 2.75T Single Axie Twin Spinner bin holds approximately 2.15 cubic m of fert

- = 2.6 Tonne super @ 1.2t/m density, 3.50 Tonne lime @ 1.6t /m density.1.7 Tonne urea @ .8t/m density The 3.25T Tandem Axle Twin Spinner bin holds approximately 2.5 cubic m of fert
- = 3.00 Tonne super @1.2t/m density, 4.00 Tonne lime @ 1.6t/m density. 2 Tonne urea @ .8t/m density The 4.75T Tandem Axle Twin Spinner bin holds approximately 3.9 cubic m of fert
- = 4.75 Tonne super @1.2t/m density, 6.25 Tonne lime @ 1.6t /m density. 3 Tonne urea @ .8t/m density (Australian Models) 2.0 Tonne Bin holds 1.68 cubic metres = 2 t super = 2.7 t lime = 1.4 t urea

3.0 Tonne Bin holds 2.53 cubic metres = 3 t super = 4.0 t lime = 2.0 t urea

Hydraulics

The standard SAM Topdresser is fitted with a hydraulic motor (OMP32) requiring a minimum external oil flow of 35 litres per minute at 2000 psi. Any oil flow greater than 35 lit is automatically bypassed back to the tractor through the built in flow control valve (bolted to the hydraulic motor). If the tractor external hydraulics has a flow of between 24 litre and 34 litre, we can supply an alternate motor (OMP25)

<u>Coupling theHydraulics</u> The feed conveyor has an in out clutch (incorporating a ram) that is activated automatically from the tractor seat when the hydraulic spinners are started.

The hydraulic twin spinner and the hydraulic poultry spinner must be coupled correctly to the tractor hydraulics system. Contact either your local agent or the manufacturer if there is any doubt. The **live** hose must be coupled to a high pressure outlet point on the tractors external system. This take off point can be fitted to an existing double acting valve already fitted for loaders, feedwagons, rams etc or a new fitting can be installed. The adjustable flow control valve on the hydraulic motor valve block controls the spinner speed. This is preset in the factory.

(Danfoss OMP32 motor = wind in then 2 1/4 turns out for 950 RPM)

(Danfoss OMP25 motor = wind in then 1 3/4 turns out for 950 RPM)

The <u>return hose with yellow tape</u> should be coupled directly into the tractors <u>hydraulic tank</u> using the quick release coupling supplied. It <u>must not</u> be connected through a cylinder spool or double acting valve where back pressure can build up in the neutral position. The neutral lever position must allow a free passage for the oil returning into the tractor hydraulic tank. Some tractors offer a neutral float position on the hydraulic lever which is quite satisfactory. If the floor mat remains in gear when the hydraulic lever is moved to the neutral position the return line is hooked up incorrectly. If the shaft seal on the hydraulic motor blows, it is connected incorrectly.

	RPM ON SPINNERS	RPM ON SPINNERS
ADJUSTMENT FROM IN OR CLOSED		
1 TURN	600	
1 1/4 TURN	735	610
1 1/2 TURN	855	720
1 3/4 TURN	980	815
2 TURN	1085	900
2 1/4 TURN		985
2 1/2 TURN		1065

If coupling hydraulics to a **John Deere tractor** (30,40,or 50 series) return oil into return plug into back tank and ensure the oil in the live hose is restricted with a needle valve, to a flow less than the charge pump capacity; or return oil into the filter bowl with check valve in the return line. On late model John Deere tractors with built in flow controls, leave the topdressers flow control valve (Black Knob)on the topdresser motor set as per the chart above, and then adjust the tractors built in flow control (from fully open turn slowly to decrease the oil flow) down until the spinners start to decrease speed. Open tractor flow control very slightly until spinners resume normal 950 rpm and leave set in this position Mark position if necessary. **Check with Coombridge & Alexander Ltd if unsure.** Always ensure tractor oils are kept in top condition. Beware when changing machine from one tractor to another unless they use the same hydraulic oils (pump oil out of hoses into a tin). If the hydraulic system is coupled correctly when new it will return excellent results. Beware of the traps and always consult an expert if in doubt.

<u>General Safe Use</u> of a SAM topdresser involves following several safe work practices (also listed in this handbook in the machinery risk assessment page) including:

- !!! TURN OFF TRACTOR BEFORE REMOVING GUARDS OR SERVICING !!!
- !!! READ ALL WARNING LABELS ON THE MACHINE !!!
- !!! NEVER USE YOUR HANDS TO CHECK FOR OIL LEAKS !!!
- !!! STAY AT LEAST 15 METERS CLEAR OF THE SPINNERS WHEN OPERATING !!!
- !!! DON'T RIDE ON THE TOPDRESSER !!!
- !!! DON'T USE THE MACHINE IN STEEP AREAS WHERE THERE IS A RISK TO THE OPERATOR OF A ROLLOVER OCCURRING !!!

GeneralMaintenance

- Vee belts (above the spinners) must be kept tight. Tension by tightening the 20 mm nylock nut on the outside face of the belt mount.
- All roller chains should be kept well oiled especially when the machine is placed in storage for any period of time.
- 3. Tyre pressure for the 11.5 x 15.3 tyres should be between 35-45 p.s.i.
- 4. After initial 10 hours use check all bolts are tight, including the wheel nuts.
- Grease every five hours all nipples in the 8 cast deadeyes and the four high speed spinner bearings.
 Don't spare the grease gun.
- Grease every ten hours all nipples and grease points on front floor adjuster slides, front screw jack, clutch pivot pin and side plates, jockey wheel, back door screw jack has two grease positions, all hubs, and nipples on the pivot points on tandem axles
- 7. Floor conveyor tension to be an even curve from front to rear with 40mm sag below the chassis.
- 8. To guard against corrosive effects of fertilisers, apply used oil mixed with a little diesel around the spinners and deflector plates. Not onto the floor mat and rubber skirts.
- Check the hydraulic system before each use for signs of leaks or wear. To locate small leaks, use a small piece
 of cardboard paper or wood. !!! NEVER USE YOUR HANDS !!!

Good maintenance along the lines already mentioned will keep your machine in top working order for years to come. Always ensure the mesh grill inside the bin remains in place for all sowing rates below 1/2 ton to the acre. If the mesh grill is left out and rocks catch between the back door and the floor mat serious damage can occur. The Machines guarantee is invalid if mesh screen is not used.

Coombridge & Alexander Itd. Tel. Parts and Service 00-64-7-8478492

The next instructions are for double acting clutch ram models only.

If it is impossible to find a free flow return into the tractor hydraulic system (some tractors run a pressurised tank return) then the manufactures can fit a double acting clutch ram in place of the single acting ram on the topdresser. With a double acting ram fitted, there will be two hoses from the motor to the clutch ram. If your machine has only one hose to the clutch ram, then this is not the correct operators information for you.

<u>The live hose (red end) must</u> be coupled to a high pressure outlet point on the tractors external system. This take off point can be fitted to an existing double acting valve already fitted for loaders, feedwagons, rams etc or a new fitting can be installed.

<u>The return hose (yellow end) must</u> be coupled into the same double acting bank using the quick release coupling supplied.

To operate clutch follow the instructions on the shaded label on the front of the machine

HEALTH & SAFETY MACHINERY RISK ASSESSMENT



SAM Tractor Drawn Bulk Topdressers



A hazard identification, risk assessment and risk control procedure has been carried out on a representative example of a SAM topdresser and where found necessary the appropriate risk control measures have been incorporated in the product specifications. The operators manual contains the necessary information, and safety warnings are applied to the machine where necessary.

What is a hazard? A hazard is any situation that may cause injury or illness.

		Fatality	Severity F Major injury	As The big is the factor of the property of the control of the con	Negligible Injury
		- 4	3	2	4.
Very Likely	4	16	12	8	4
Likely	3	12	9	6	3
Unlikely	2	8	6	4	2
Highly Unlikely	1	4	3	2	1

Hazard:	Potential Risk Source:	Fre	Sev	Rating	Safety Measure:
Damage to limbs crushing, abrasions	Moving Chains, Moving Gears.	1	2	2	Warning labels / Instruction Book / Guards Gears and chains can only move with machine in motion
Entanglement,drawing in, trapping	Moving Vee Belts	1	2	2	Warning labels / Instruction Book / Guards
Damage to fingers / eyes through high pressure fluid ejection	Hydraulic Oil Pressure Leaks	2	2	4	Warning in Instruction Book /Adequate pressure ratings for all components
Instability under varying conditions	Machine Roll Over	2	4	8	Warning in Instruction Book/ Adequate weight on hitch /Adequate wheel track
Slipping tripping or falling	Riding on Machine	2	2	4	Warning in Instruction Book
Damage to fingers / eyes through ejection of material	Rotating Spinner discs	1	1	1	Warning in Instruction Book / Pipe frame around discs / Rotation direction
	tractor to tow spreader	3	3	9	Aggregate Trailer Mass (ATM) should not be more than: 1.5 x Tractor Mass (4WD); 1.0 x Tractor Mass (2WD). See Instruction Book
All the above hazards	Lack of information				Operators manual with safety and operating information
	1				

Spread Rates

The spread rate chart (actual size) is fixed beside the back door of the topdresser. The operator only has to select the rate per hectare from the white boxes for the type of fertiliser being spread (on this chart either Lime Super or Urea) and set the top of the back door level with the selected box. The side scale 1-20 represents centimetres open of the door. A more detailed Spread chart is included in the Operators

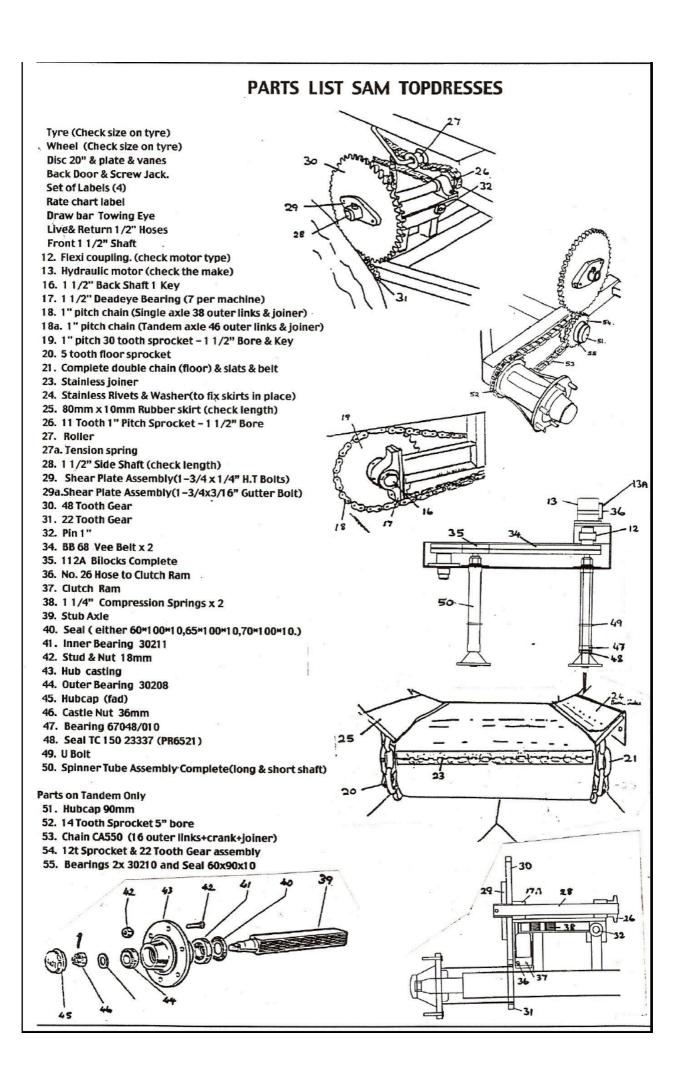
	nua	

	Lime 10m Centres	Super 15m Centres	Urea 15m Centres	
Door Height	Density 1.6 t/cu.m	Density 1.1 t/cu.m	Density .77 t/cu.m	Door Height
– 20	3350	1374	905	20 -
- 19	3183	1305	860	19
- 18	3015	1236	815	18 —
- 17	2848	1168	769	17 —
16	2680	1099	724	16 💳
15	2513	1030	679	15 💳
14	2345	962	634	14 —
13	2178	893	588	13 -
12	2010	824	543	12 -
- 11	1843	756	498	11 -
10	1675	687	453	10 -
9	1508	618	407	9 —
- 8	1340	550	362	8 —
7	1173	481	317	7 —
6	1005	412	272	6 -
5	838	343	226	5 -
- 4	670	275	181	4 -
3	503	206	136	3 -
- 2	335	137	91	2 -
7 1	168	69	45	1 -
Door Height	Lime 10m Centres	Super 15m Centres	Urea 15m Centres	Door Height

Spreading Tables

Set top of door to centre of box with rate required. All rates in KG per Hectare More Detailed Spread Tables in the Instruction Book

Unea Nicolams September-Name Satt Sa	A Spread 0 1358 0 1290 8 1222	Glogram	S Per	Hactar	A STATE OF THE PARTY OF	Market Spirit		things I	00 (1	(Maar	from	Aller			The second secon		MODE OF THE PARTY	-		2000		
Sughthart of Ammonia Superprisephale Salt	Charles and the same of the sa			I SACRET		4		chings	ומ כמ	11000			D HOAD	10 01	e Bac	(Door		5000	2000	oniginar io	S WITH	Manufacturer
1. 1. 1. 1. 1. 1. 1. 1.		0.77 Vo		Sulphate	of Am 1.0 Vec	monia Jbic m	Superp Nitroph Density	hospha oska Bl 1.1 Vcu	E	salt riple S ensity 1	uper 1.2 t/cu		Serpent	ine Su 1.3 Vou		Dolomi	te 1.4 t/c			bck (Sechura		1.6 Vouble m
8 815 1886 1349 1249 1249 1248 1566 1305 2136 1709 1424 2314 1851 1542 2785 2228 1857 2984 3183 3183 3183 3183 3183 3183 3183 31	0.00	12.5 Width		1 0 1	12.5 Width		1.0	12.5 Width I		1 0 1	2.5 Vidth I		1 0 1	2.5 Width		1 0 Spread	12.5 Width	n ≥	1 0 Spread	N/A N/	The state of the s	
8 E IS 1666 1360 126 136 136 2136 1709 1424 2314 1851 1542 2785 2228 1857 2984 3183 8 E IS 1666 1349 1124 1855 1484 1236 2023 1619 1349 2192 1754 1461 2638 2111 1759 2827 3015 3 769 1592 1274 1062 1752 1401 1188 1911 1529 1274 2070 1656 1380 2492 1993 1661 2670 22845 1670 2476 1670 1670 1670 1670 1670 1670 1670 16	1290	1086	908	1873	1499		2061	1649 1	-	248 1	798 1	•	435 1	948	+	2931	2345	1954	3141		3350	2 0
State 1686 1349 1124 1855 1484 1236 2023 1619 1349 1274 1461 2638 2111 1759 2827 2848 2827 2848 2827 2827 2827 2827 2827 2828 2827 2828	1222	1032		1780	1424	1186	8		305	136 1					A		2228	00	2984		3183	1 9
3 7.69 1620 1274 1060 1752 1471 1520 1274 1670 1680 1631 1632 1274 1480 1190 999 1640 1310 1099 1780 1430 1520 1240 1560 1260 2461 1670 1680 1780 1430 1680 1780 1430 1680 1780 1461 1210 2040 2462 1670 1680 1780 1461 1680 1780 1461 1680 1780 1680 1780 1680 1780 1680 1680 1780 1680 1780 1680 1780 1680 1680 1780 1680 1680 1780 1680 1780 1680 1780 1680 178				1686	1349	200800024113	S						192 1		and the same			1759	2827		3015	
9 724 1499 1199 999 1449 1199 999 1480 1199 999 1480 1199 1948 1599 1948 1599 1240 1760 1860 1340 1760 1860 1340 1760 1860 1340 1760 1860 1340 1760 1860 </td <td>1154</td> <td></td> <td>-</td> <td>1592</td> <td>1274</td> <td></td> <td>N</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>1070</td> <td></td> <td></td> <td></td> <td></td> <td>1661</td> <td>2670</td> <td></td> <td>2848</td> <td>1</td>	1154		-	1592	1274		N	-					1070					1661	2670		2848	1
6 5 4 6 1 4 6 1 4 6 1 4 1 4 1 4 1 4 1 4 1 1 4 1 4 1 1 1 1 1 4 1	1086	-	-2 -2 -0 -0 -0 -0			-	0							-			1876	1563	2513		2680	16
6 5 4 1 1 0 8 7 4 4 1	1018		000001 12 127				ယ			686 1			827 1	1		2198		1466	2356		51	1.5
6 588 1218 974 8158 1266 1055 1905 1524 1270 2041 2178 2 543 1124 899 749 1769 974 1759 1407 1173 1884 2010 2 543 1124 899 749 1461 1169 974 1759 1407 1173 1884 2010 3 453 910 756 1236 989 824 1839 1461 1759 1407 1173 1884 2010 2010 3 453 1036 824 1839 1461 1169 974 1759 1407 1173 1843 1612 1899 1461 1699 1461 1759 1407 1759 1418 1759 1818 1759 1418 1759 1418 1759 1418 1759 1418 1759 1418 1759 1419 1759 1419 1759	n na sa		200.000		1.	of the last of the last of	m			574					NO. OLAL J. V.O.		1642	1368	2198		2345	1.4
2 5 4 1 4 8 7 1 2 1 2 1 2 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 3 1 1 3 3 1 4 1 3 3 1 4 3 4 1 3 4 1 4 4 1 4	882	_	2000 10000			21212121	0										-	1270	2041		2178	13
7 498 1030 824 687 1124 899 749 1072 893 1612 1290 1075 1727 1612 1290 1075 1727 1675 <td>815</td> <td></td> <td>10.70</td> <td>- 1</td> <td>-</td> <td>10101-101</td> <td>CO</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>66</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1173</td> <td>1884</td> <td></td> <td>2010</td> <td>-</td>	815		10.70	- 1	-	10101-101	CO	-	-			66						1173	1884		2010	-
3 453 937 749 624 1030 824 687 1124 899 749 1218 974 812 1466 1773 977 1570 1675 4 362 3407 342 664 1012 809 674 1096 877 731 1319 1055 879 1413 1508 1413 1508 1508 1340 1508<			2071	- 1		-	0	-	No					-				1075	1727		1843	÷
4 362 443 674 674 1096 877 731 1319 1055 879 1413 1508 1413 1508 1508 1340 4 362 749 562 749 779 649 1173 938 782 1256 1340 0 317 656 525 437 721 777 649 1173 938 782 1256 1340 2 2226 456 557 481 787 629 575 487 586 487 406 733 586 489 785 609 487 406 733 586 489 785 609 487 406 733 586 489 785 838 785 838 785 838 838 2 226 462 350 244 450 350 244 406 733 586 489 771 81 81	629					-	i	4	10001711-00		-	49	1	4	N		1173	977	1570		1675	1.0
4 362 749 599 574 779 649 1173 938 782 1256 1340 0 317 656 525 437 721 577 481 787 629 525 852 682 568 1026 821 684 1099 1173 2 272 562 450 375 670 487 406 783 586 489 785 1005 2 226 468 375 312 515 412 343 562 450 781 487 406 783 586 489 785 809 487 406 783 586 489 785 809 487 406 783 586 489 785 838 838 838 838 839 838 838 839 838 84 89 489 489 489 489 489 489 489 489	611						927	-	8		-			-			1055	879	1413	A STATE OF THE STA	1508	O
0 317 656 525 437 721 577 481 787 629 525 682 568 1026 821 684 1026 821 684 1026 821 685 487 487 704 586 489 785 942 1005 2 226 468 375 312 515 412 343 562 450 375 609 487 406 733 586 489 785 838 1 181 375 300 250 412 330 275 480 385 292 244 440 352 679 670 670 670 670 670 487 390 224 440 352 293 471 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670 670	543								ililia		-	8-11-11-11-11-11-11-11-11-11-11-11-11-11	1	6	6	1173	938	782	1256		1340	8
6 272 562 450 375 618 674 540 450 731 585 487 704 586 942 704 585 489 785 1005 2 226 468 375 312 515 412 343 562 450 375 609 487 406 733 586 489 785 838 878 878 878 878 878 878 878 879 325 586 469 391 628 670 870 888 888 879 877 878 878 879 874 440 352 883 471 888 670 888 889 89 150 2244 195 162 293 471 177 98 158 168 158 188 188 189 172 89 181 147 117 98 159 168 168 168 168	-						_	-	E CA			LS.		2	100.9° V	1026	821	684	1099		1173	۲
2 2.26 468 375 312 515 412 343 562 480 487 406 783 586 489 785 838 838 7 181 375 300 250 412 330 275 450 365 292 244 440 352 293 471 503 9 13 187 150 165 137 225 180 150 162 293 235 195 314 503 4 45 94 75 122 97 81 147 117 98 157 168							618	40	2		-		11.000	-	487	879	704	586	942		1005	9
7 181 375 300 250 412 330 275 450 360 360 325 586 246 460 325 586 469 391 628 670 3 136 281 225 187 270 225 365 292 244 440 352 293 471 503 4 45 167 165 187 180 150 244 195 162 293 235 193 335 4 45 94 75 62 172 90 75 122 97 81 147 117 98 157 168		_					515	N	က	N	20	S		7	406	733	586	489	785		838	IO.
3 136 281 225 187 309 247 206 337 270 225 365 292 244 440 352 293 471 503 9 91 187 150 125 206 165 137 225 180 150 244 195 162 293 235 195 314 335 4 45 94 75 62 103 82 69 112 90 75 122 97 81 147 117 98 157 168 Door	272		Chicken to con-				412		2		_	10160			325	586	469	391	628		670	4
9 91 187 150 125 180 150 244 195 162 293 235 195 314 335 4 45 94 75 62 103 82 69 112 90 75 122 97 81 147 117 98 157 168 Boot			TOTAL T-A			1733		-		0.0000000000000000000000000000000000000	-	10		-	244	440	352	0	471		503	6
4 45 94 75 62 103 82 69 112 90 75 122 97 81 147 117 98 157 168 Door							206	165	7	- LO	80			2	162	293	3	0	314		335	CA
100C	68	-	45	94	7.5	1000/4	103	82	6	S		2	122	26	81	147	117		157		168	-
	or Settin	88																			å	or Settings
				Step 3.		Follow this		column down to	OWN 10	n to select spreading rate	spreau	Ing rat	e require	red in	d in kilograms pe	ums be	r nects	Φ	g. 343 kg/n	g/n		



Questions Often asked:

What rates will the machine spread at? Question:

From 45 Kg per Ht @ 15 m Centres for urea etc up to 2500 Kg per Ht @ 10 m centres for lime Answer:

Question:

How even is the spread?

Answer:

Representative machines have been tested using the recognised spread mark test for spreader accuracy. Spread patterns are rated using the term Coefficient of Variation, a measure of the % of fertiliser outside a perfect spread with 0% being perfect. New Zealand Standards recognise a CV under 15% as Being acceptable for nitrogenous fertilisers (DAP urea nitroposka blue etc.), and under 25% for other products (super lime etc.) The SAM Spinners have been tested at 10.8% CV with urea and 15% CV with super well within the

standards.

Question:

What is the capacity of the machine?

Answer:

The 2.75T Single Axle Twin Spinner bin holds approximately 2.15 cubic m of fert. = 2.6 Tonne super @1.2 t/m density, = 3.50 Tonne lime @ 1.6 t/m density.

= 1.7 Tonne urea @ .8t/m density

The 3.25T Tandem Axle Twin Spinner bin holds approximately 2.5 cubic m of fert = 3.00 Tonne super @1.2 t/m density, = 4.00 Tonne lime @ 1.6t /m density.

= 2 Tonne urea @ .8 t/m density

The 4.75T Tandem Axle Twin Spinner bin holds approximately 3.9 cubic m of fert. = 4.75 Tonne super @ 1.2t/m density, = 6.25 Tonne lime @ 1.t/m density.

= 3 Tonne urea @ .8t/m density

2.0 Tonne Bin holds 1.68 cubic metres = 2t super = 2.7t lime = 1.4t urea 3.0 Tonne Bin holds 2.53 cubic metres = 3t super = 4.0t lime = 2.0t urea (Australian Models)

Question:

How does the automatic clutch work?

Answer:

As the hydraulic spinners are started (pressurised) oil also opens a hydraulic ram inside the clutch assembly which engages the two gears to start the floor mat. When the spinners are stopped, the two gears are automatically disengaged stopping the floor mat. The system

works perfectly engaging and disengaging on the move.

Question:

What is the expected life of the gears?

Answer:

As they are only engaging at low pressure the will last for many thousands of tonnes

Question:

What oil flow is required?

Answer:

The standard SAM Topdresser is fitted with a hydraulic motor (OMP32) requiring a minimum external oil flow of 35 litres per minute at 2000 psi. Any oil flow greater than 35 lit is automatically bypassed back to the tractor through the built in flow control valve (bolted to the hydraulic motor). If the tractor external hydraulics has a flow of between 24 litre and

34 litre we can supply an alternate motor (OMP25).

Question:

What paint treatment does the machine receive?

Answer:

Chassis - Blast to Sa 2.5 Paint Devshield 236 (2 pot) Paint E Line 929 (2 pot)

Bin - Blast to Sa 2.5 Paint cathacoat zinc 232 then as above.

Question:

How tight should I have the floor chain / mat assembly?

Answer:

The chain should return 40mm below the chassis.

Question:

Are there different tyre options?

Answer:

Yes the standard tyres are 11.5 * 80 * 15.3 * 12ply but other sizes both wider and

larger in diameter are available

Question:

Are the spinners spinning in the correct direction?

Answer:

Looking down on the disks from a position behind the machine, the right hand disk should be

turning anti clockwise with the left disk turning clockwise.

Trouble Shooting

Why is the clutch staying in gear with the tractors hydraulic lever in neutral. Question:

1. Either the return hose is not returning the oil directly to the tank of the tractor see operators manual. There must be no back pressure in the return line.

2. There could be a blockage in the inlet pinhole on the hydraulic ram. Remove the ram, pull out the spear and clean.

3. Check that the pivot point on the clutch is moving freely and is well greased.