

ROBERTSON *Transpread*

H317N – H319W – 335 TRAILER SPREADER OPERATING MANUAL



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Robertson

MANUFACTURING LTD

MACHINE TYPE		SERIAL No.	
MACHINE TARE WEIGHT (kg)		MAX. GROSS (kg)	
MAX. AXLE CAP. (kg)	VERT D (kg)	TOW R (kg)	
TYRE SIZE	TYRE PRESS. (cold)	lbs	bar
DATE MANUF.	SPEED RATED (loaded)	km/Hour	
OPTION 1 (kg)	OPTION 2 (kg)		
OPTION 3 (kg)	OPTION 4 (kg)		
OPTION 5 (kg)	OPTION 6 (kg)		

Main South Road, PO Box 6, Hinds, Mid Canterbury, New Zealand Phone 03 **303 7228**

CAUTION

This machine must never be operated with the rear door in the closed position. On some fertilisers the door should **not** be operated less than 60 mm of gap as packing may occur and the chain will jam, thus causing damage to gearbox or rear shaft. When spreading Steel Works Slag, always operate the machine in the low gear with the door open as wide as possible. Enquire for larger jockey wheel if very low rates are required.

General

1. Keep the machine as clean as possible.
2. Check the wheel nuts daily before use.
3. Check tyre pressure before use (including jockey wheel on gear box).
4. Grease all bearings weekly. **IMPORTANT!** Push gear selector right in to grease gear shift. If doing heavy rates, grease daily.
5. Always check the oil filter indicator (if fitted) on the spreader before use.
6. Always change tractor oil and filter in accordance with the manufactures instructions.

CONNECTING UP YOUR TRAILER

1. Connect the large diameter return hose to the return line breakaway coupling on your tractor.
2. Connect the small diameter pressure hose to the pressure line breakaway coupling on your tractor.
3. With the tractor at an idle, engage your hydraulic spinners. The right hand spinner should rotate anticlockwise. The left hand spinner should rotate clockwise.

NOTE: If the spinners do not rotate or rotate the wrong direction then the delivery and return hoses may have to be swapped over.

Caution !!

Spinners can be over speeded. **Check Your Tachometer !!** Max. for 575mm diameter Spinners is 1300 rpm, and 475mm diameter spinners, 1600 rpm. On any new set-up always shut flow control before start up, bring tractor rev to Max. Then slowly open up flow control until desired spinner speed is reached. Mark flow control setting to keep Max. spinner speed within above parameters.

SETTING SPINNER SPEEDS

Spinner Speed is the most important factor in achieving an accurate spread pattern. The spinner speed is adjusted by altering the control on the valve at the front of the machine. Guideline speeds for various different materials are given in the table on page 12. When setting spinner speeds ensure the engine of the tractor is running at the same R.P.M. as it will normally be operating in the field and make sure that the oil is warmed up to its normal operating temperature. Always monitor the spinner speed by watching the tachometer when operating the spreader as an error of 50 R.P.M. on spinner speed will result in a deterioration of the spread pattern. If the spinner speed is too high there will be too much material behind the spreader. If the spinner speed is too slow there will be too little material behind the spreader.

SETTING THE APPLICATION RATE.

The application rate of material is controlled by the back door settings and gear setting. Refer to the rate charts in appendix 1 at the back of this manual (ensure you get the correct density) for guideline settings of the door opening in millimetres and which gear should be selected. Once you have selected your rate from the charts, remove the retaining pin in the door handle and adjust the door so that the top of the door indicator lines up with your selected figure on the chart. Replace the retaining pins. The rate is now set. With the huge variation of prills and compounds it is impossible to be 100% accurate without checking the batch of material you are spreading.

GEAR SETTINGS

High and Low gear denoted on the table refers to the gear box selector on the inside of the jockey wheel drive arm. High gear is selected when the arm is pulled fully out. Low is pushed right in, **and is also where it should be greased.** Neutral is selected in a mid way position between gears. **Always remember to replace the retaining pin after changing gear.**

Use will dictate accurate settings.

TO START SPREADING

Single Spool Tractors... Start the spinners by opening the tractor spool valve.

Twin Spool Tractors... Start the spinners by opening the tractor spool valve, this will engage the gearbox by lowering the gearbox ram until the gearbox jockey wheel is in full contact with the trailer wheel.

Both... Ensure engine RPM is within the range as when the spinner speed was set and check the spinner speed on the tachometer. Drive off maintaining engine RPM and using the tractor gearbox to keep the engine from labouring. This will ensure the hydraulic flow will be sufficient to maintain spinner speed.

To lift the gearbox, reverse flow until the Jockey wheel is fully up and then return to neutral.

Twin Spool Tractors... Lift the gearbox clear of the main trailer wheel by operating the gearbox ram spool valve on the tractor, only stop spinners if required.

Stop spinners by operating the spinner spool valve on the tractor when required.

CHAIN ADJUSTMENT



Chain should be adjusted to spring length of 70 mm. Too tight will cause chain to jam, spreading material will build up in the sprockets, too loose will allow chain to jam under floor and not return, this can damage gear box and rear shaft.

IMPORTANT!
Check after each load for first day while chain is bedding in

SERVICE

For the first week.. Grease all gear box bearings daily. **IMPORTANT ! Push gear selector right in to Low gear to grease gear shift.**

Weekly Service... Grease all grease points. **IMPORTANT ! Push gear selector right in to Low gear to grease gear shift.**

12 Monthly Service...

Check and repack wheel bearings. Open gear box and repack with grease. (See Full Service Manual for instructions)

TESTING YOUR TRACTOR PUMP.

The difference between the rated flow of the pump and what its delivery actually is can be considerable.

Check Pressure

A pump in good condition can put out full pressure, with the oil at operating temperature, at 1000 rpm of the engine. If it takes high engine rev. to accomplish full system pressure then the pump is worn out. Pump problems usually show up when spreading at high rates i.e... Lime at 2 Tonnes per ha.

Check Flow

To check the actual delivery from the pump the spinner motors can be used as a flow meter. Open flow control for spinners to its maximum then run tractor at 1000 rpm read spinner speed. Multiply spinner speed by motor cc size. If motors are in parallel add the two motor sizes together.

Spinner Speed 500 rpm
Motor size 40 cc = .040 Litre x 500 rpm
= 20 Litre

Then multiply this by the % increase in tractor rev up to the speed you operate i.e. 2200 rpm multiply by 2.2 thus ... 20ltr x 2.2 = 44 litre maximum flow.

All this testing should be done at operating temperature as there will be a considerable drop off as the temperature rises.

Contractors doing heavy rates should consider fitting a separate vane type pump to greatly improve performance.

TRANSPREAD FOR GROUNDSREAD

Spinner Speed :

How do you tell what your spinners are doing? When do you know if they are going too fast or too slow, before or after the farmer complain about the poor job done?

To be certain you have the right speed at the right time connect a **Tachometer**



This will give you the speed of your spinners so that you should always know what they are doing. Spinner speed will vary with load, oil temperature and engine revs. If the spread pattern is too heavy behind the spreader, spinner speed is usually high too and visa versa, too light is revs to low. To get correct spread pattern the spreader must be pan tested.



This shows a typical hoop at the front of the Spreader. The Larger line heading down to the right exiting the picture frame is the Return to your Tractor. The Smaller line at the same location is the pressure line From your Tractor.

The Red valve (with the lever), is a variable speed control for the spinner Revs, indicated by the rev counter (Tachometer). The small line from the silver block to the fitting on the front of the bin is for the gearbox lift control ram. The Large line running across the bin is the main return line from the Spinner Motors.

BE REALISTIC - FIT A TACHOMETER

TRANSPREAD FOR WIDESPREAD

What width do I drive?

- This depends on the . .

- a) Density of the fertiliser
- b) Size of granule.
- c) Density of granule
- d) Shape of granule

Using the Transpread sieve system you can work out more accurately what distance apart you should be driving.

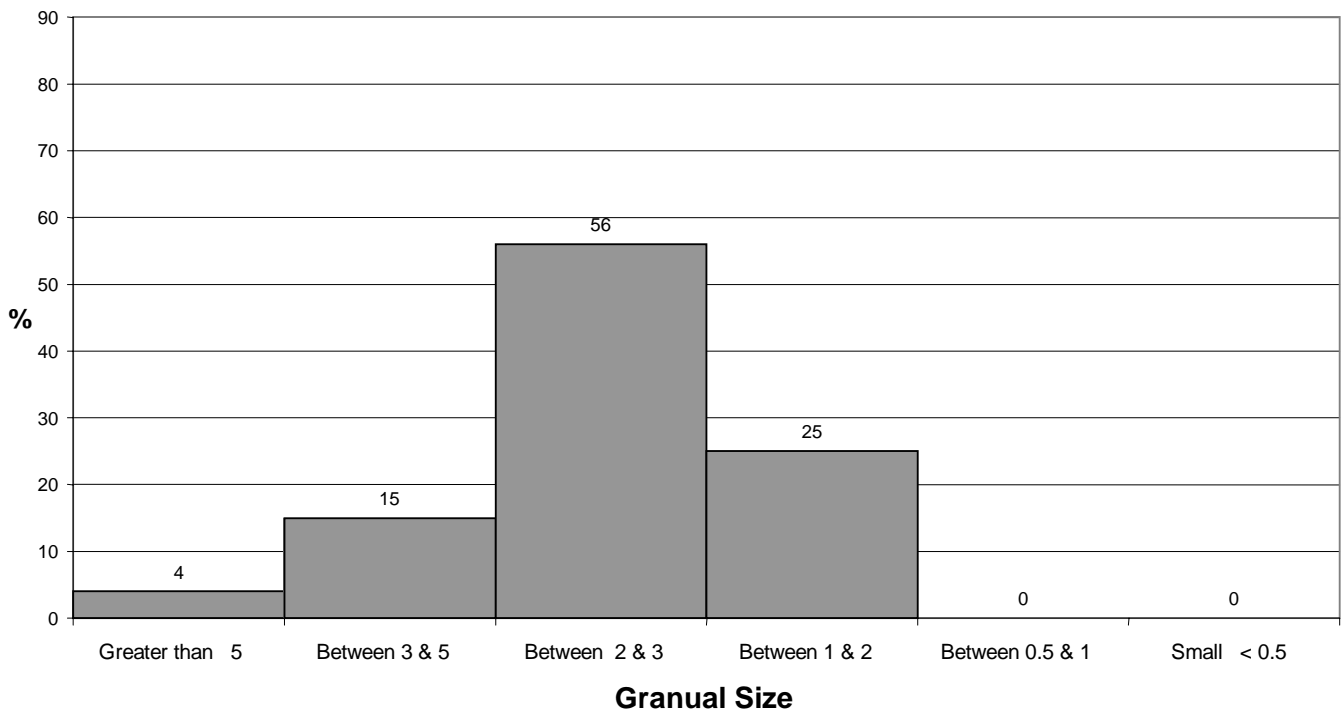
Take some fertiliser which is a fair example of the whole load and fill first segment (+5) of [Transpread Fertiliser Sieve](#). Close the lid and shake it around. When no more fertiliser will go through the grids stand the sieve up and read the amounts in each compartment

The more fertiliser which falls to the smaller grid compartments, the closer together you drive. The more in the large compartments, the further apart you can drive.

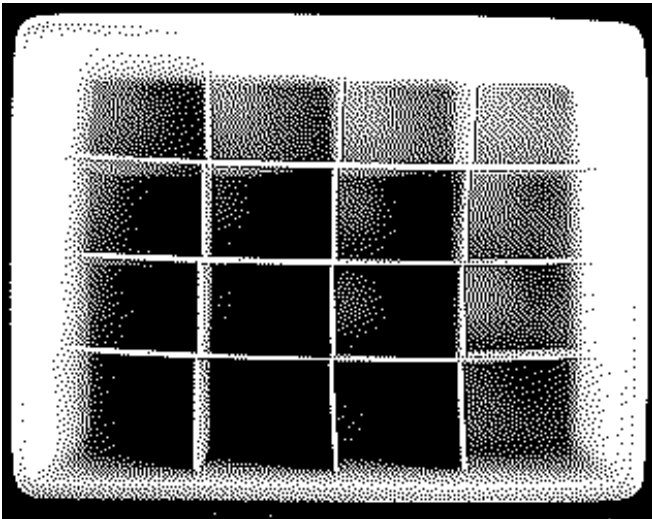
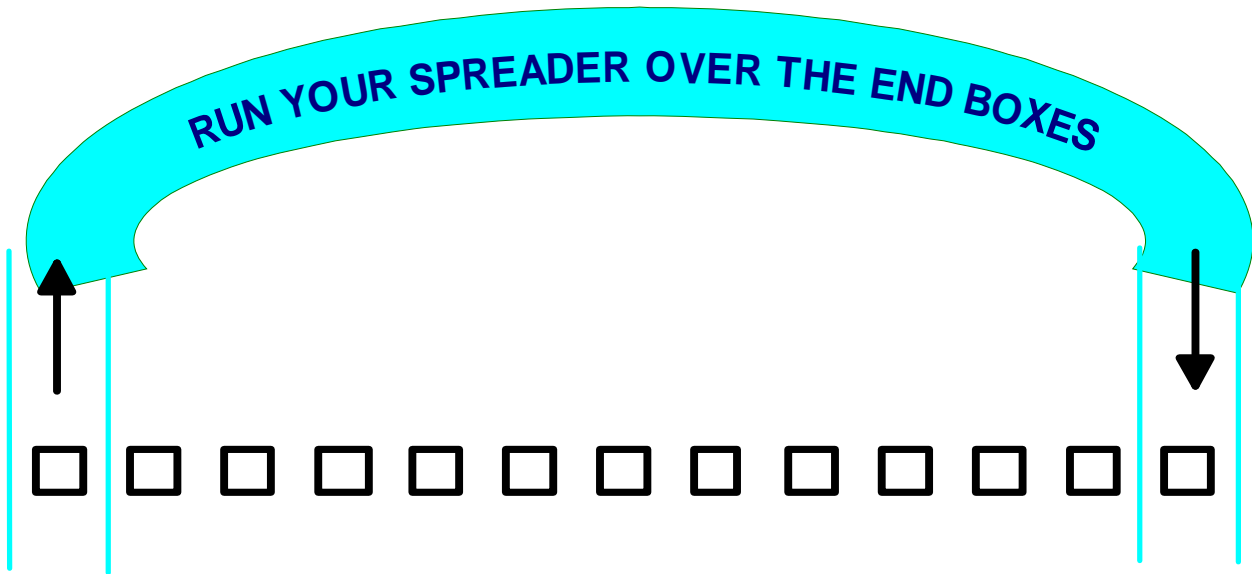
By taking the fertiliser from the smallest grid compartment and spreading it on a white sheet of paper you can often see what the sample of fertiliser is made up of. e.g.. sulphur will show yellow. If there is an even mixture there should be no problem spreading. But if one product shows much more than others, such as sulphur, there will be stripping on sulphur deficient soil. To do this officially the fertiliser should be analysed by a competent authority. After using the sieve on materials you know spread correctly you will get a fair knowledge of what is possible on different fertilisers.

TRANSPREAD Fertiliser Sieve P/N 605140

Transpread Fertiliser Sieve

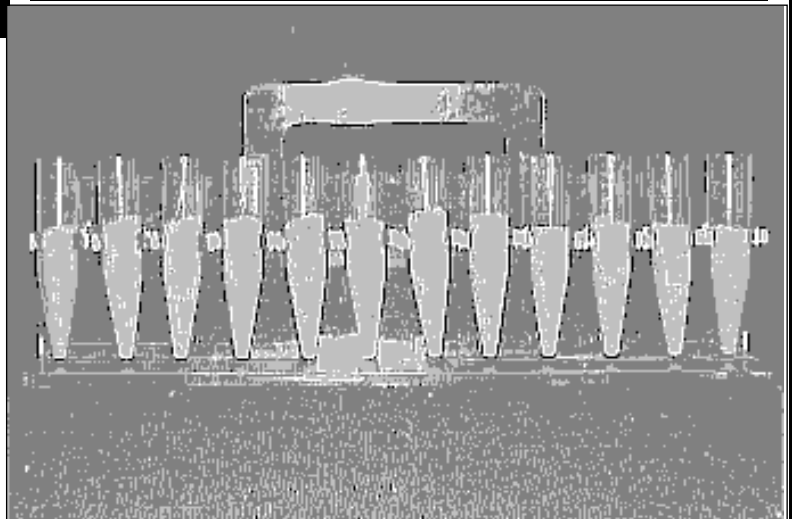


Transpread Tested World Wide



The correct number of boxes should be spaced 2 metres apart for 13 Tray Kit or 1 metre for 24 or 40 Tray Kits to the width you are testing for i.e.. 10 or 19 boxes for 18 metres, 13 or 25 boxes for 24 metres. If several tests are being done a knotted string can be used to mark where boxes go.

Carefully empty containers into test tubes using a funnel and a small paint brush. Place on table and view at eye level and read off numbers on the markings of the tubes. This will give you the overlap and evenness at the single Bout Width that was travelled



Test Kits are available from TRANSPREAD

TRANSPREAD....*BEST BY TEST*

TRANSPREAD Bout Width Testing Form

Test Number: Spreader Identification:..... Date :.....

Test Material:.....

Spinner Size:

Spinner Speed:

Bout Width:.....

Rate:

Number of Runs:.....

Direction Spread: Up&Dn/Round&Round

Weight/Measurement of Bins

Bin Number

Weight/Measurement

Bin 1

.....

Bin 2

.....

Bin 3

.....

Bin 4

.....

Bin 5

.....

Bin 6

.....

Bin 7

.....

Bin 8

.....

Bin 9

.....

Bin 10

.....

Bin 11

.....

Bin 12

.....

Bin 13

.....

If you would like a CV chat done from these results fax this form to Transpread

Fax Number :.....

Tyre Chart

Recommended pressure should be increased for hillside work.

Tyre		Max. Load	Max. Pressure	Recommended Pres.
10/75x15.3	10 Ply	1830 kg	5.5 bar (80 Psi)	2.5 bar (37 Psi)
11.5/80x15.3	12 Ply	2575 kg	5.6 bar (82 Psi)	2.5 bar (37 Psi)
11.5/80x15.3	12 Ply	2575 kg	5.6 bar (82 Psi)	3.5 bar (51 Psi)
12.5/80x15.3	14 Ply	3000 kg	5.6 bar (82 Psi)	3.5 bar (51 Psi)
15x22.5	16 Ply	4250 kg	5 bar (73 Psi)	2 bar (29 Psi)
15x22.5	16 Ply	4250 kg	5 bar (73 Psi)	3 bar (44 Psi)
400/60x15.5	14 Ply	3300 kg	4.8 bar (70 Psi)	3 bar (44 Psi)
500/45x22.5	16 Ply	3750 kg	3.6 bar (53 Psi)	2.5 bar (37 Psi)
500/60x22.5	16 Ply	4875 kg	3.2 bar (47 Psi)	2.5 bar (37 Psi)
550/60x22.5	16 Ply	5450 kg	2.8 bar (41Psi)	2.3 bar (34 Psi)
600/55x26.5	16 Ply	6000 kg	2.6 bar (38 Psi)	2.2 bar (32 Psi)
700/50x26.5	16Ply	6700 kg	2.4 bar (35 Psi)	2.0 bar (29 Psi)
16x20	12 Ply	3600 kg	3 bar (44 Psi)	2.0 bar (29 Psi)
16x20	12 Ply	3600 kg	3 bar (44 Psi)	2.5 bar (37 Psi)
22/70x20	10 Ply	4500 kg	2 bar (29 Psi)	1.0 bar (14.7 Psi)
22/70x20	10 Ply	4500 kg	2 bar (29 Psi)	1.0 bar (14.7 Psi)
22/70x20	10 Ply	4500 kg	2 bar (29 Psi)	1.5 bar (22 Psi)
22/70x20	10 Ply	4500 kg	2 bar (29 Psi)	1.5 bar (22 Psi)
22/70x20	10 Ply	4500 kg	2 bar (29 Psi)	1.75 bar (26 Psi)

Tables for converting CWT. Or Lb/Acre to Kg/Hectare

CWT/Acre	Lb/Acre	Kg/Hectare		CWT/Acre	Lb/Acre	Kg/Hectare
0.5	56	60		6	672	750
1.0	112	125		7	784	875
1.5	168	200		8	896	1000
2.0	224	250		9	1008	1125
3.0	336	375		10	1120	1250
3.5	392	404		15	1680	1875
4.0	448	566		20	2240	2500

Settings approximate only, all units should be pan tested to ensure accuracy.

This chart represents Spinner Revs					
Spread Width					
Material	12m	18m			
Hydro Extran 21-8-11	950	1050			
Kemira 21-8-11	950	1100			
Nitraprill	950	1050			
Kemira 20-10-10	900	1000			
Kemira Swardsman 25-5-5	900	1000			
Hydro Supergrass 25-5-5	900	950			
Urea	950	1050			
Sulphate of ammonia	1050	N/A			
Lime	800	950			
Super	950	1100	1200		

Appendix 1. Setting your Spreading Rate.

What affects the application rate of your Transpread Spreader ?

1) Material Density, usually expressed as relative density.

This is a comparison of weight to volume. Imagine a table tennis ball and a golf ball, they are of a similar size and volume but the weight of a golf ball is far greater. This means that a golf ball is far denser than a table tennis ball. In spreading terms this means that to spread a similar weight of materials of differing densities the volume of material spread must change. To spread accurately you must know the density of the material you are spreading. The rate charts shown in this appendix are referenced to material density.

2) How a material flows.

Materials of the same density can have different flow characteristics; for example, take the charts cluded in this section for Hydro Extran and Kemira Nitraprill. Both materials have the same density but with the same door opening far more Nitraprill will come out than Extran. This is due to the prill size and the ease with which it will flow. Compounds will not flow as readily as prills as they tend to be more angular in shape compared to the spherical prills. Humidity and dampness can also affect the way a material flows as can the age of the fertiliser. This means that although guideline charts are included in this section it is important that the user calculates their own application rate from the formula provided.

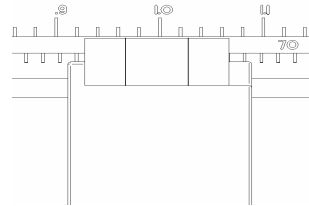
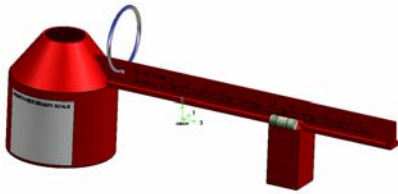
3) Driving inaccurately.

Although your Transpread unit has a ground related moving floor, driving inaccuracies can affect your rate per Hectare. If your machine is set for a 12M bout width any variation from this in your rows will be reflected in the error of Rate application. i.e... If you drive at 10M instead of 12M the error in your rate will be $12/10 \times 100 = 120\%$ of your required rate per hectare. Like wise if you drive at 14M instead of 12M the error in your rate will be $12/14 \times 100 = 86\%$ of your required rate per hectare. Errors in this region are likely to cause stripping and are costing you money.

REMEMBER! IT PAYS TO DRIVE ACCURATELY.

The following pages are for setting the machine **Door Height** (millimetres) and **Gear Selection** (Low, Medium or High), in relation to the **Density** (KG/CU DM) and **Rate** (KG per HA) of fertiliser. (see sample chart below)

The **Density** is found by using the Counter Balance Scale supplied with your spreader. Use the measurement scale labelled "KG/CU DM" sample shows 1.0 KG/CU DM



Down the right side of each chart on each page you will find the **Density value** and **Gear Selection** for quick referencing, once you know the **Density**, you can then look on each chart (i.e. **Low, Medium or High**) with the **relative Density**, and then find the **required Rate** (on the left hand side). Along the top of the chart you will see the spread **Width**. By following the **Rate** line across and the **Width** line down you will find a number, this number is the **Door Height** in mm.

You can now set up your spreader to the Known **Door Height**, and **Gear Selection**

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Width →

RATE →

→ **Density**

→ **Gear**

Gear Ratio...Low		RATE CHART KG PER HA																
Material Density KG/CU DM 1.00		Based on use with Medium (Std) Jockey Wheel																
SPREAD WIDTH IN METRES																		
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36		
R A T E	30												17	18	20	21	22	
	40								18	20	21	23	25	26	28	30		
	50						18	21	23	25	27	29	31	33	35	37		
	60				17	20	22	25	27	30	32	34	37	39	42	44		
	70			17	20	23	26	29	32	34	37	40	43	46	49	52		
	80		20	23	26	30	33	36	39	43	46	49	53	56	59			
	90	18	22	26	30	33	37	41	44	48	52	55	59	63	66			
	100	21	25	29	33	37	41	45	49	53	57	62	66	70	74			
	110	18	23	27	32	36	41	45	50	54	59	63	68	72	77	81		
	120	20	25	30	34	39	44	49	54	59	64	69	74	79	84	89		
130	21	27	32	37	43	48	53	59	64	69	75	80	85	91	96			
140	23	29	34	40	46	52	57	63	69	75	80	86	92	98	103			
150	25	31	37	43	49	55	62	68	74	80	86	92	98	105	111			
160	26	33	39	46	53	59	66	72	79	85	92	98	105	112	118			
170	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126			
180	30	37	44	52	59	66	74	81	89	96	103	111	118	126	133			
190	31	39	47	55	62	70	78	86	94	101	109	117	125	133	140			
200	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148			
210	34	43	52	60	69	78	86	95	103	112	121	129	138	146	155			
220	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162			
230	38	47	57	66	75	85	94	104	113	123	132	142	151	160	170			
240	39	49	59	69	79	89	98	108	118	128	138	148	158	167	177			
250	41	51	62	72	82	92	103	113	123	133	144	154	164	174	185			
260	43	53	64	75	85	96	107	117	128	139	149	160	171	181	192			
270	44	55	66	78	89	100	111	122	133	144	155	166	177	188	199			
280	46	57	69	80	92	103	115	126	138	149	161	172	184	195	207			
290	48	59	71	83	95	107	119	131	143	155	167	178	190	202	214			
300	49	62	74	86	98	111	123	135	148	160	172	185	197	209	222			
320	53	66	79	92	105	118	131	144	158	171	184	197	210	223	236			
340	56	70	84	98	112	126	139	153	167	181	195	209	223	237	251			
360	59	74	89	103	118	133	148	162	177	192	207	222	236	251	266			
380	62	78	94	109	125	140	156	171	187	203	218	234	249	265	281			
400	66	82	98	115	131	148	164	181	197	213	230	246	263	279	295			
425	70	87	105	122	139	157	174	192	209	227	244	262	279	296	314			
450	74	92	111	129	148	166	185	203	222	240	258	277	295	314	332			
475	78	97	117	136	156	175	195	214	234	253	273	292	312	331	351			
500	82	103	123	144	164	185	205	226	246	267	287	308	328	349	369			
525	86	108	129	151	172	194	215	237	258	280	302	323	345	366	388			
550	90	113	135	158	181	203	226	248	271	293	316	338	361	384				
575	94	118	142	165	189	212	236	259	283	307	330	354	377					
600	98	123	148	172	197	222	246	271	295	320	345	369	394					

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...Low		RATE CHART KG PER HA														
Material Density KG/CU DM 0.75		Based on use with Medium (Std) Jockey Wheel														
S P R E A D W I D T H I N M E T R E S																
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30	-----	-----	-----	-----	-----	-----	-----	18	20	21	23	25	26	28	30
	40	-----	-----	-----	-----	18	20	22	24	26	28	31	33	35	37	39
	50	-----	-----	-----	19	22	25	27	30	33	36	38	41	44	46	49
	60	-----	-----	20	23	26	30	33	36	39	43	46	49	53	56	59
	70	-----	19	23	27	31	34	38	42	46	50	54	57	61	65	69
	80	18	22	26	31	35	39	44	48	53	57	61	66	70	74	79
	90	20	25	30	34	39	44	49	54	59	64	69	74	79	84	89
	100	22	27	33	38	44	49	55	60	66	71	77	82	88	93	98
	110	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108
	120	26	33	39	46	53	59	66	72	79	85	92	98	105	112	118
K G	130	28	36	43	50	57	64	71	78	85	92	100	107	114	121	128
	140	31	38	46	54	61	69	77	84	92	100	107	115	123	130	138
	150	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
	160	35	44	53	61	70	79	88	96	105	114	123	131	140	149	158
	170	37	46	56	65	74	84	93	102	112	121	130	139	149	158	167
	180	39	49	59	69	79	89	98	108	118	128	138	148	158	167	177
	190	42	52	62	73	83	94	104	114	125	135	145	156	166	177	187
	200	44	55	66	77	88	98	109	120	131	142	153	164	175	186	197
	210	46	57	69	80	92	103	115	126	138	149	161	172	184	195	207
	220	48	60	72	84	96	108	120	132	144	156	168	181	193	205	217
P E R H A	230	50	63	75	88	101	113	126	138	151	164	176	189	201	214	226
	240	53	66	79	92	105	118	131	144	158	171	184	197	210	223	236
	250	55	68	82	96	109	123	137	150	164	178	191	205	219	232	246
	260	57	71	85	100	114	128	142	156	171	185	199	213	228	242	256
	270	59	74	89	103	118	133	148	162	177	192	207	222	236	251	266
	280	61	77	92	107	123	138	153	168	184	199	214	230	245	260	276
	290	63	79	95	111	127	143	159	174	190	206	222	238	254	270	286
	300	66	82	98	115	131	148	164	181	197	213	230	246	263	279	295
	320	70	88	105	123	140	158	175	193	210	228	245	263	280	298	315
	340	74	93	112	130	149	167	186	205	223	242	260	279	298	316	335
H A	360	79	98	118	138	158	177	197	217	236	256	276	295	315	335	354
	380	83	104	125	145	166	187	208	229	249	270	291	312	333	353	374
	400	88	109	131	153	175	197	219	241	263	284	306	328	350	372	394
	425	93	116	139	163	186	209	232	256	279	302	325	349	372	395	-----
	450	98	123	148	172	197	222	246	271	295	320	345	369	394	-----	-----
	475	104	130	156	182	208	234	260	286	312	338	364	390	-----	-----	-----
	500	109	137	164	191	219	246	273	301	328	356	383	-----	-----	-----	-----
	525	115	144	172	201	230	258	287	316	345	373	-----	-----	-----	-----	-----
	550	120	150	181	211	241	271	301	331	361	391	-----	-----	-----	-----	-----
	575	126	157	189	220	252	283	315	346	377	-----	-----	-----	-----	-----	-----
600	131	164	197	230	263	295	328	361	394	-----	-----	-----	-----	-----	-----	

0.75
LOW GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio... Low		RATE CHART KG PER HA														
Material Density KG/CU DM 0.80		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R	30	-----	-----	-----	-----	-----	-----	-----	-----	18	20	22	23	25	26	28
	40	-----	-----	-----	-----	-----	18	21	23	25	27	29	31	33	35	37
	50	-----	-----	-----	18	21	23	26	28	31	33	36	38	41	44	46
	60	-----	-----	18	22	25	28	31	34	37	40	43	46	49	52	55
	70	-----	18	22	25	29	32	36	39	43	47	50	54	57	61	65
	80	-----	21	25	29	33	37	41	45	49	53	57	62	66	70	74
	90	18	23	28	32	37	42	46	51	55	60	65	69	74	78	83
	100	21	26	31	36	41	46	51	56	62	67	72	77	82	87	92
	110	23	28	34	39	45	51	56	62	68	73	79	85	90	96	102
	120	25	31	37	43	49	55	62	68	74	80	86	92	98	105	111
K	130	27	33	40	47	53	60	67	73	80	87	93	100	107	113	120
	140	29	36	43	50	57	65	72	79	86	93	101	108	115	122	129
	150	31	38	46	54	62	69	77	85	92	100	108	115	123	131	138
	160	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
	170	35	44	52	61	70	78	87	96	105	113	122	131	139	148	157
	180	37	46	55	65	74	83	92	102	111	120	129	138	148	157	166
	190	39	49	58	68	78	88	97	107	117	127	136	146	156	166	175
	200	41	51	62	72	82	92	103	113	123	133	144	154	164	174	185
	210	43	54	65	75	86	97	108	118	129	140	151	162	172	183	194
	220	45	56	68	79	90	102	113	124	135	147	158	169	181	192	203
P	230	47	59	71	83	94	106	118	130	142	153	165	177	189	200	212
	240	49	62	74	86	98	111	123	135	148	160	172	185	197	209	222
	250	51	64	77	90	103	115	128	141	154	167	179	192	205	218	231
	260	53	67	80	93	107	120	133	147	160	173	187	200	213	227	240
	270	55	69	83	97	111	125	138	152	166	180	194	208	222	235	249
	280	57	72	86	101	115	129	144	158	172	187	201	215	230	244	258
	290	59	74	89	104	119	134	149	164	178	193	208	223	238	253	268
	300	62	77	92	108	123	138	154	169	185	200	215	231	246	262	277
	320	66	82	98	115	131	148	164	181	197	213	230	246	263	279	295
	H	340	70	87	105	122	139	157	174	192	209	227	244	262	279	296
360		74	92	111	129	148	166	185	203	222	240	258	277	295	314	332
380		78	97	117	136	156	175	195	214	234	253	273	292	312	331	351
400		82	103	123	144	164	185	205	226	246	267	287	308	328	349	369
425		87	109	131	153	174	196	218	240	262	283	305	327	349	370	392
450		92	115	138	162	185	208	231	254	277	300	323	346	369	392	-----
475		97	122	146	171	195	219	244	268	292	317	341	365	390	-----	-----
500		103	128	154	179	205	231	256	282	308	333	359	385	-----	-----	-----
525		108	135	162	188	215	242	269	296	323	350	377	-----	-----	-----	-----
550		113	141	169	197	226	254	282	310	338	367	395	-----	-----	-----	-----
575	118	147	177	206	236	265	295	324	354	383	-----	-----	-----	-----	-----	
600	123	154	185	215	246	277	308	338	369	400	-----	-----	-----	-----	-----	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...Low		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30	-----	-----	-----	-----	-----	-----	-----	17	19	20	22	23	25	26	
	40	-----	-----	-----	-----	-----	17	19	21	23	25	27	29	31	33	35
	50	-----	-----	-----	-----	19	22	24	27	29	31	34	36	39	41	43
	60	-----	-----	17	20	23	26	29	32	35	38	41	43	46	49	52
	70	-----	-----	20	24	27	30	34	37	41	44	47	51	54	57	61
	80	-----	19	23	27	31	35	39	42	46	50	54	58	62	66	69
	90	17	22	26	30	35	39	43	48	52	56	61	65	69	74	78
	100	19	24	29	34	39	43	48	53	58	63	68	72	77	82	87
	110	21	27	32	37	42	48	53	58	64	69	74	80	85	90	96
	120	23	29	35	41	46	52	58	64	69	75	81	87	93	98	104
K G	130	25	31	38	44	50	56	63	69	75	82	88	94	100	107	113
	140	27	34	41	47	54	61	68	74	81	88	95	101	108	115	122
	150	29	36	43	51	58	65	72	80	87	94	101	109	116	123	130
	160	31	39	46	54	62	69	77	85	93	100	108	116	124	131	139
	170	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
	180	35	43	52	61	69	78	87	96	104	113	122	130	139	148	156
	190	37	46	55	64	73	83	92	101	110	119	128	138	147	156	165
	200	39	48	58	68	77	87	97	106	116	125	135	145	154	164	174
	210	41	51	61	71	81	91	101	111	122	132	142	152	162	172	182
	220	42	53	64	74	85	96	106	117	127	138	149	159	170	181	191
P E R	230	44	56	67	78	89	100	111	122	133	144	155	167	178	189	200
	240	46	58	69	81	93	104	116	127	139	151	162	174	185	197	208
	250	48	60	72	84	97	109	121	133	145	157	169	181	193	205	217
	260	50	63	75	88	100	113	125	138	151	163	176	188	201	213	226
	270	52	65	78	91	104	117	130	143	156	169	182	195	208	222	235
	280	54	68	81	95	108	122	135	149	162	176	189	203	216	230	243
	290	56	70	84	98	112	126	140	154	168	182	196	210	224	238	252
	300	58	72	87	101	116	130	145	159	174	186	203	217	232	246	261
	320	62	77	93	108	124	139	154	170	185	201	216	232	247	263	278
	340	66	82	98	115	131	148	164	181	197	213	230	246	263	279	295
H A	360	69	87	104	122	139	156	174	191	208	226	243	261	278	295	313
	380	73	92	110	128	147	165	183	202	220	238	257	275	293	312	330
	400	77	97	116	135	154	174	193	212	232	251	270	290	309	328	347
	425	82	103	123	144	164	185	205	226	246	267	287	308	328	349	369
	450	87	109	130	152	174	195	217	239	261	282	304	326	347	369	391
	475	92	115	138	160	183	206	229	252	275	298	321	344	367	390	-----
	500	97	121	145	169	193	217	241	265	290	314	338	362	386	-----	-----
	525	101	127	152	177	203	228	253	279	304	329	355	380	-----	-----	-----
	550	106	133	159	186	212	239	265	292	319	345	372	398	-----	-----	-----
	575	111	139	167	194	222	250	278	305	333	361	389	-----	-----	-----	-----
600	116	145	174	203	232	261	290	319	347	376	-----	-----	-----	-----	-----	

0.85
LOW GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio... Low		RATE CHART KG PER HA														
Material Density KG/CU DM 0.90		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	23	25
	40	-----	-----	-----	-----	-----	-----	18	20	22	24	26	27	29	31	33
	50	-----	-----	-----	-----	18	21	23	25	27	30	32	34	36	39	41
	60	-----	-----	-----	19	22	25	27	30	33	36	38	41	44	46	49
	70	-----	-----	19	22	26	29	32	35	38	41	45	48	51	54	57
	80	-----	18	22	26	29	33	36	40	44	47	51	55	58	62	66
	90	-----	21	25	29	33	37	41	45	49	53	57	62	66	70	74
	100	18	23	27	32	36	41	46	50	55	59	64	68	73	77	82
	110	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
	120	22	27	33	38	44	49	55	60	66	71	77	82	88	93	98
130	24	30	36	41	47	53	59	65	71	77	83	89	95	101	107	
140	26	32	38	45	51	57	64	70	77	83	89	96	102	108	115	
150	27	34	41	48	55	62	68	75	82	89	96	103	109	116	123	
160	29	36	44	51	58	66	73	80	88	95	102	109	117	124	131	
170	31	39	46	54	62	70	77	85	93	101	108	116	124	132	139	
180	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148	
190	35	43	52	61	69	78	87	95	104	113	121	130	139	147	156	
200	36	46	55	64	73	82	91	100	109	119	128	137	146	155	164	
210	38	48	57	67	77	86	96	105	115	124	134	144	153	163	172	
220	40	50	60	70	80	90	100	110	120	130	140	150	160	170	181	
230	42	52	63	73	84	94	105	115	126	136	147	157	168	178	189	
240	44	55	66	77	88	98	109	120	131	142	153	164	175	186	197	
250	46	57	68	80	91	103	114	125	137	148	160	171	182	194	205	
260	47	59	71	83	95	107	119	130	142	154	166	178	190	201	213	
270	49	62	74	86	98	111	123	135	148	160	172	185	197	209	222	
280	51	64	77	89	102	115	128	140	153	166	179	191	204	217	230	
290	53	66	79	93	106	119	132	145	159	172	185	198	211	225	238	
300	55	68	82	96	109	123	137	150	164	178	191	205	219	232	246	
320	58	73	88	102	117	131	146	160	175	190	204	219	233	248	263	
340	62	77	93	108	124	139	155	170	186	201	217	232	248	263	279	
360	66	82	98	115	131	148	164	181	197	213	230	246	263	279	295	
380	69	87	104	121	139	156	173	191	208	225	242	260	277	294	312	
400	73	91	109	128	146	164	182	201	219	237	255	273	292	310	328	
425	77	97	116	136	155	174	194	213	232	252	271	291	310	329	349	
450	82	103	123	144	164	185	205	226	246	267	287	308	328	349	369	
475	87	108	130	152	173	195	217	238	260	281	303	325	346	368	390	
500	91	114	137	160	182	205	228	251	273	296	319	342	365	387	-----	
525	96	120	144	168	191	215	239	263	287	311	335	359	383	-----	-----	
550	100	125	150	175	201	226	251	276	301	326	351	376	-----	-----	-----	
575	105	131	157	183	210	236	262	288	315	341	367	393	-----	-----	-----	
600	109	137	164	191	219	246	273	301	328	356	383	-----	-----	-----	-----	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...Low		RATE CHART KG PER HA														
Material Density KG/CU DM 1.00		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	18	20	21	22
	40	-----	-----	-----	-----	-----	-----	-----	18	20	21	23	25	26	28	30
	50	-----	-----	-----	-----	-----	18	21	23	25	27	29	31	33	35	37
	60	-----	-----	-----	17	20	22	25	27	30	32	34	37	39	42	44
	70	-----	-----	17	20	23	26	29	32	34	37	40	43	46	49	52
	80	-----	-----	20	23	26	30	33	36	39	43	46	49	53	56	59
	90	-----	18	22	26	30	33	37	41	44	48	52	55	59	63	66
	100	-----	21	25	29	33	37	41	45	49	53	57	62	66	70	74
	110	18	23	27	32	36	41	45	50	54	59	63	68	72	77	81
	120	20	25	30	34	39	44	49	54	59	64	69	74	79	84	89
K G	130	21	27	32	37	43	48	53	59	64	69	75	80	85	91	96
	140	23	29	34	40	46	52	57	63	69	75	80	86	92	98	103
	150	25	31	37	43	49	55	62	68	74	80	86	92	98	105	111
	160	26	33	39	46	53	59	66	72	79	85	92	98	105	112	118
	170	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126
	180	30	37	44	52	59	66	74	81	89	96	103	111	118	126	133
	190	31	39	47	55	62	70	78	86	94	101	109	117	125	133	140
	200	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
	210	34	43	52	60	69	78	86	95	103	112	121	129	138	146	155
	220	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162
P E R	230	38	47	57	66	75	85	94	104	113	123	132	142	151	160	170
	240	39	49	59	69	79	89	98	108	118	128	138	148	158	167	177
	250	41	51	62	72	82	92	103	113	123	133	144	154	164	174	185
	260	43	53	64	75	85	96	107	117	128	139	149	160	171	181	192
	270	44	55	66	78	89	100	111	122	133	144	155	166	177	188	199
	280	46	57	69	80	92	103	115	126	138	149	161	172	184	195	207
	290	48	59	71	83	95	107	119	131	143	155	167	178	190	202	214
	300	49	62	74	86	98	111	123	135	148	160	172	185	197	209	222
	320	53	66	79	92	105	118	131	144	158	171	184	197	210	223	236
	340	56	70	84	98	112	126	139	153	167	181	195	209	223	237	251
H A	360	59	74	89	103	118	133	148	162	177	192	207	222	236	251	266
	380	62	78	94	109	125	140	156	171	187	203	218	234	249	265	281
	400	66	82	98	115	131	148	164	181	197	213	230	246	263	279	295
	425	70	87	105	122	139	157	174	192	209	227	244	262	279	296	314
	450	74	92	111	129	148	166	185	203	222	240	258	277	295	314	332
	475	78	97	117	136	156	175	195	214	234	253	273	292	312	331	351
	500	82	103	123	144	164	185	205	226	246	267	287	308	328	349	369
	525	86	108	129	151	172	194	215	237	258	280	302	323	345	366	388
	550	90	113	135	158	181	203	226	248	271	293	316	338	361	384	-----
	575	94	118	142	165	189	212	236	259	283	307	330	354	377	-----	-----
600	98	123	148	172	197	222	246	271	295	320	345	369	394	-----	-----	

1.00
LOW GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio... Low		RATE CHART KG PER HA														
Material Density KG/CU DM 1.05		Based on use with Medium (Std) Jockey Wheel														
S P R E A D W I D T H I N M E T R E S																
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
R A T E	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20	21	
	40	-----	-----	-----	-----	-----	-----	17	19	20	22	23	25	27	28	
	50	-----	-----	-----	-----	-----	18	20	21	23	25	27	29	31	33	35
	60	-----	-----	-----	-----	19	21	23	26	28	30	33	35	38	40	42
	70	-----	-----	-----	19	22	25	27	30	33	36	38	41	44	46	49
	80	-----	-----	19	22	25	28	31	34	38	41	44	47	50	53	56
	90	-----	18	21	25	28	32	35	39	42	46	49	53	56	60	63
	100	-----	20	23	27	31	35	39	43	47	51	55	59	63	66	70
	110	17	21	26	30	34	39	43	47	52	56	60	64	69	73	77
	120	19	23	28	33	38	42	47	52	56	61	66	70	75	80	84
K G	130	20	25	30	36	41	46	51	56	61	66	71	76	81	86	91
	140	22	27	33	38	44	49	55	60	66	71	77	82	88	93	98
	150	23	29	35	41	47	53	59	64	70	76	82	88	94	100	105
	160	25	31	38	44	50	56	63	69	75	81	88	94	100	106	113
	170	27	33	40	46	53	60	66	73	80	86	93	100	106	113	120
	180	28	35	42	49	56	63	70	77	84	91	98	105	113	120	127
	190	30	37	45	52	59	67	74	82	89	97	104	111	119	126	134
	200	31	39	47	55	63	70	78	86	94	102	109	117	125	133	141
	210	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
	220	34	43	52	60	69	77	86	95	103	112	120	129	138	146	155
P E R	230	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162
	240	38	47	56	66	75	84	94	103	113	122	131	141	150	159	169
	250	39	49	59	68	78	88	98	107	117	127	137	147	156	166	176
	260	41	51	61	71	81	91	102	112	122	132	142	152	163	173	183
	270	42	53	63	74	84	95	105	116	127	137	148	158	169	179	190
	280	44	55	66	77	88	98	109	120	131	142	153	164	175	186	197
	290	45	57	68	79	91	102	113	125	136	147	159	170	181	193	204
	300	47	59	70	82	94	105	117	129	141	152	164	176	188	199	211
	320	50	63	75	88	100	113	125	138	150	163	175	188	200	213	225
	340	53	66	80	93	106	120	133	146	159	173	186	199	213	226	239
H A	360	56	70	84	98	113	127	141	155	169	183	197	211	225	239	253
	380	59	74	89	104	119	134	148	163	178	193	208	223	238	252	267
	400	63	78	94	109	125	141	156	172	188	203	219	234	250	266	281
	425	66	83	100	116	133	149	166	183	199	216	232	249	266	282	299
	450	70	88	105	123	141	158	176	193	211	229	246	264	281	299	316
	475	74	93	111	130	148	167	186	204	223	241	260	278	297	315	334
	500	78	98	117	137	156	176	195	215	234	254	273	293	313	332	352
	525	82	103	123	144	164	185	205	226	246	267	287	308	328	349	369
	550	86	107	129	150	172	193	215	236	258	279	301	322	344	365	387
	575	90	112	135	157	180	202	225	247	270	292	315	337	359	382	-----
600	94	117	141	164	188	211	234	258	281	305	328	352	375	399	-----	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...Low		RATE CHART KG PER HA														
Material Density KG/CU DM 1.10		Based on use with Medium (Std) Jockey Wheel														
S P R E A D W I D T H I N M E T R E S																
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20
	40	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	25	27
	50	-----	-----	-----	-----	-----	-----	19	21	22	24	26	28	30	32	34
	60	-----	-----	-----	-----	18	20	22	25	27	29	31	34	36	38	40
	70	-----	-----	-----	18	21	23	26	29	31	34	37	39	42	44	47
	80	-----	-----	18	21	24	27	30	33	36	39	42	45	48	51	54
	90	-----	-----	20	23	27	30	34	37	40	44	47	50	54	57	60
	100	-----	19	22	26	30	34	37	41	45	48	52	56	60	63	67
	110	-----	21	25	29	33	37	41	45	49	53	57	62	66	70	74
	120	18	22	27	31	36	40	45	49	54	58	63	67	72	76	81
K G	130	19	24	29	34	39	44	48	53	58	63	68	73	78	82	87
	140	21	26	31	37	42	47	52	57	63	68	73	78	84	89	94
	150	22	28	34	39	45	50	56	62	67	73	78	84	90	95	101
	160	24	30	36	42	48	54	60	66	72	78	84	90	95	101	107
	170	25	32	38	44	51	57	63	70	76	82	89	95	101	108	114
	180	27	34	40	47	54	60	67	74	81	87	94	101	107	114	121
	190	28	35	43	50	57	64	71	78	85	92	99	106	113	120	128
	200	30	37	45	52	60	67	75	82	90	97	104	112	119	127	134
	210	31	39	47	55	63	70	78	86	94	102	110	117	125	133	141
	220	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
P E R	230	34	43	51	60	69	77	86	94	103	112	120	129	137	146	154
	240	36	45	54	63	72	81	90	98	107	116	125	134	143	152	161
	250	37	47	56	65	75	84	93	103	112	121	131	140	149	158	168
	260	39	48	58	68	78	87	97	107	116	126	136	145	155	165	175
	270	40	50	60	70	81	91	101	111	121	131	141	151	161	171	181
	280	42	52	63	73	84	94	104	115	125	136	146	157	167	178	188
	290	43	54	65	76	87	97	108	119	130	141	151	162	173	184	195
	300	45	56	67	78	90	101	112	123	134	145	157	168	179	190	201
	320	48	60	72	84	95	107	119	131	143	155	167	179	191	203	215
	340	51	63	76	89	101	114	127	139	152	165	178	190	203	216	228
H A	360	54	67	81	94	107	121	134	148	161	175	188	201	215	228	242
	380	57	71	85	99	113	128	142	156	170	184	198	213	227	241	255
	400	60	75	90	104	119	134	149	164	179	194	209	224	239	254	269
	425	63	79	95	111	127	143	158	174	190	206	222	238	254	269	285
	450	67	84	101	117	134	151	168	185	201	218	235	252	269	285	302
	475	71	89	106	124	142	159	177	195	213	230	248	266	283	301	319
	500	75	93	112	131	149	168	186	205	224	242	261	280	298	317	336
	525	78	98	117	137	157	176	196	215	235	255	274	294	313	333	352
	550	82	103	123	144	164	185	205	226	246	267	287	308	328	349	369
	575	86	107	129	150	172	193	214	236	257	279	300	322	343	365	386
600	90	112	134	157	179	201	224	246	269	291	313	336	358	380	-----	

1.10
LOW GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio... Low		RATE CHART KG PER HA														
Material Density KG/CU DM 1.15		Based on use with Medium (Std) Jockey Wheel														
S P R E A D W I D T H I N M E T R E S																
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
R A T E	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	18	19	
	40	-----	-----	-----	-----	-----	-----	-----	17	19	20	21	23	24	26	
	50	-----	-----	-----	-----	-----	18	20	21	23	25	27	29	30	32	
	60	-----	-----	-----	-----	17	19	21	24	26	28	30	32	34	36	39
	70	-----	-----	-----	17	20	22	25	27	30	32	35	37	40	42	45
	80	-----	-----	17	20	23	26	29	31	34	37	40	43	46	49	51
	90	-----	-----	19	22	26	29	32	35	39	42	45	48	51	55	58
	100	-----	18	21	25	29	32	36	39	43	46	50	54	57	61	64
	110	-----	20	24	27	31	35	39	43	47	51	55	59	63	67	71
	120	17	21	26	30	34	39	43	47	51	56	60	64	68	73	77
130	19	23	28	32	37	42	46	51	56	60	65	70	74	79	83	
140	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
150	21	27	32	37	43	48	54	59	64	70	75	80	86	91	96	
160	23	29	34	40	46	51	57	63	68	74	80	86	91	97	103	
170	24	30	36	42	49	55	61	67	73	79	85	91	97	103	109	
180	26	32	39	45	51	58	64	71	77	83	90	96	103	109	116	
190	27	34	41	47	54	61	68	75	81	88	95	102	108	115	122	
200	29	36	43	50	57	64	71	78	86	93	100	107	114	121	128	
210	30	37	45	52	60	67	75	82	90	97	105	112	120	127	135	
220	31	39	47	55	63	71	78	86	94	102	110	118	126	133	141	
230	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148	
240	34	43	51	60	68	77	86	94	103	111	120	128	137	146	154	
250	36	45	54	62	71	80	89	98	107	116	125	134	143	152	161	
260	37	46	56	65	74	83	93	102	111	121	130	139	148	158	167	
270	39	48	58	67	77	87	96	106	116	125	135	144	154	164	173	
280	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	
290	41	52	62	72	83	93	103	114	124	134	145	155	166	176	186	
300	43	54	64	75	86	96	107	118	128	139	150	161	171	182	193	
320	46	57	68	80	91	103	114	126	137	148	160	171	183	194	205	
340	49	61	73	85	97	109	121	133	146	158	170	182	194	206	218	
360	51	64	77	90	103	116	128	141	154	167	180	193	205	218	231	
380	54	68	81	95	108	122	136	149	163	176	190	203	217	230	244	
400	57	71	86	100	114	128	143	157	171	185	200	214	228	243	257	
425	61	76	91	106	121	136	152	167	182	197	212	227	243	258	273	
450	64	80	96	112	128	144	161	177	193	209	225	241	257	273	289	
475	68	85	102	119	136	152	169	186	203	220	237	254	271	288	305	
500	71	89	107	125	143	161	178	196	214	232	250	268	285	303	321	
525	75	94	112	131	150	169	187	206	225	243	262	281	300	318	337	
550	78	98	118	137	157	177	196	216	235	255	275	294	314	334	353	
575	82	103	123	144	164	185	205	226	246	267	287	308	328	349	369	
600	86	107	128	150	171	193	214	235	257	278	300	321	342	364	385	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...Low		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	18
	40	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	23	25
	50	-----	-----	-----	-----	-----	-----	17	19	21	22	24	26	27	29	31
	60	-----	-----	-----	-----	-----	18	21	23	25	27	29	31	33	35	37
	70	-----	-----	-----	-----	19	22	24	26	29	31	34	36	38	41	43
	80	-----	-----	-----	19	22	25	27	30	33	36	38	41	44	46	49
	90	-----	-----	18	22	25	28	31	34	37	40	43	46	49	52	55
	100	-----	17	21	24	27	31	34	38	41	44	48	51	55	58	62
	110	-----	19	23	26	30	34	38	41	45	49	53	56	60	64	68
	120	-----	21	25	29	33	37	41	45	49	53	57	62	66	70	74
K G	130	18	22	27	31	36	40	44	49	53	58	62	67	71	76	80
	140	19	24	29	34	38	43	48	53	57	62	67	72	77	81	86
	150	21	26	31	36	41	46	51	56	62	67	72	77	82	87	92
	160	22	27	33	38	44	49	55	60	66	71	77	82	88	93	98
	170	23	29	35	41	46	52	58	64	70	76	81	87	93	99	105
	180	25	31	37	43	49	55	62	68	74	80	86	92	98	105	111
	190	26	32	39	45	52	58	65	71	78	84	91	97	104	110	117
	200	27	34	41	48	56	62	68	75	82	89	96	103	109	116	123
	210	29	36	43	50	57	65	72	79	86	93	101	108	115	122	129
	220	30	38	45	53	60	68	75	83	90	98	105	113	120	128	135
P E R H A	230	31	39	47	55	63	71	79	86	94	102	110	118	126	134	142
	240	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
	250	34	43	51	60	68	77	85	94	103	111	120	128	137	145	154
	260	36	44	53	62	71	80	89	98	107	116	124	133	142	151	160
	270	37	46	55	65	74	83	92	102	111	120	129	138	148	157	166
	280	38	48	57	67	77	86	96	105	115	124	134	144	153	163	172
	290	40	50	59	69	79	89	99	109	119	129	139	149	159	169	178
	300	41	51	62	72	82	92	103	113	123	133	144	154	164	174	185
	320	44	55	66	77	88	98	109	120	131	142	153	164	175	186	197
	340	46	58	70	81	93	105	116	128	139	151	163	174	186	198	209
H A	360	49	62	74	86	98	111	123	135	148	160	172	185	197	209	222
	380	52	65	78	91	104	117	130	143	156	169	182	195	208	221	234
	400	55	68	82	96	109	123	137	150	164	178	191	205	219	232	246
	425	58	73	87	102	116	131	145	160	174	189	203	218	232	247	262
	450	62	77	92	108	123	138	154	169	185	200	215	231	246	262	277
	475	65	81	97	114	130	146	162	179	195	211	227	244	260	276	292
	500	68	85	103	120	137	154	171	188	205	222	239	256	273	291	308
	525	72	90	108	126	144	162	179	197	215	233	251	269	287	305	323
	550	75	94	113	132	150	169	188	207	226	244	263	282	301	320	338
	575	79	98	118	138	157	177	197	216	236	256	275	295	315	334	354
600	82	103	123	144	164	185	205	226	246	267	287	308	328	349	369	

1.20
LOW GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio... Low		RATE CHART KG PER HA														
Material Density KG/CU DM 1.25		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18
	40	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	18	20	21	22	24
	50	-----	-----	-----	-----	-----	-----	18	20	21	23	25	26	28	30	
	60	-----	-----	-----	-----	-----	18	20	22	24	26	28	30	32	33	35
	70	-----	-----	-----	-----	18	21	23	25	28	30	32	34	37	39	41
	80	-----	-----	-----	18	21	24	26	29	32	34	37	39	42	45	47
	90	-----	-----	18	21	24	27	30	32	35	38	41	44	47	50	53
	100	-----	-----	20	23	26	30	33	36	39	43	46	49	53	56	59
	110	-----	18	22	25	29	32	36	40	43	47	51	54	58	61	65
	120	-----	20	24	28	32	35	39	43	47	51	55	59	63	67	71
K G	130	17	21	26	30	34	38	43	47	51	55	60	64	68	73	77
	140	18	23	28	32	37	41	46	51	55	60	64	69	74	78	83
	150	20	25	30	34	39	44	49	54	59	64	69	74	79	84	89
	160	21	26	32	37	42	47	53	58	63	68	74	79	84	89	95
	170	22	28	33	39	45	50	56	61	67	73	78	84	89	95	100
	180	24	30	35	41	47	53	59	65	71	77	83	89	95	100	106
	190	25	31	37	44	50	56	62	69	75	81	87	94	100	106	112
	200	26	33	39	46	53	59	66	72	79	85	92	98	105	112	118
	210	28	34	41	48	55	62	69	76	83	90	96	103	110	117	124
	220	29	36	43	51	58	65	72	79	87	94	101	108	116	123	130
P E R	230	30	38	45	53	60	68	75	83	91	98	106	113	121	128	136
	240	32	39	47	55	63	71	79	87	95	102	110	118	126	134	142
	250	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
	260	34	43	51	60	68	77	85	94	102	111	119	128	137	145	154
	270	35	44	53	62	71	80	89	97	106	115	124	133	142	151	159
	280	37	46	55	64	74	83	92	101	110	119	129	138	147	156	165
	290	38	48	57	67	76	86	95	105	114	124	133	143	152	162	171
	300	39	49	59	69	79	89	98	108	118	128	138	148	158	167	177
	320	42	53	63	74	84	95	105	116	126	137	147	158	168	179	189
	H A	340	45	56	67	78	89	100	112	123	134	145	156	167	179	190
360		47	59	71	83	95	106	118	130	142	154	165	177	189	201	213
380		50	62	75	87	100	112	125	137	150	162	175	187	200	212	224
400		53	66	79	92	105	118	131	144	158	171	184	197	210	223	236
425		56	70	84	98	112	126	139	153	167	181	195	209	223	237	251
450		59	74	89	103	118	133	148	162	177	192	207	222	236	251	266
475		62	78	94	109	125	140	156	171	187	203	218	234	249	265	281
500		66	82	98	115	131	148	164	181	197	213	230	246	263	279	295
525		69	86	103	121	138	155	172	190	207	224	241	258	276	293	310
550		72	90	108	126	144	162	181	199	217	235	253	271	289	307	325
575	75	94	113	132	151	170	189	208	226	245	264	283	302	321	340	
600	79	98	118	138	158	177	197	217	236	256	276	295	315	335	354	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...Low		RATE CHART KG PER HA														
Material Density KG/CU DM 1.30		Based on use with Medium (Std) Jockey Wheel														
S P R E A D W I D T H I N M E T R E S																
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30															17
	40											18	19	20	21	23
	50							17	19	21	22	24	25	27	28	
	60						17	19	21	23	25	27	28	30	32	34
	70					18	20	22	24	27	29	31	33	35	38	40
	80			18	20	23	25	28	30	33	35	38	40	43	45	
	90		17	20	23	26	28	31	34	37	40	43	45	48	51	
	100		19	22	25	28	32	35	38	41	44	47	50	54	57	
	110	17	21	24	28	31	35	38	42	45	49	52	56	59	62	
	120	19	23	27	30	34	38	42	45	49	53	57	61	64	68	
K G	130	21	25	29	33	37	41	45	49	53	57	62	66	70	74	
	140	18	22	27	31	35	40	44	49	53	57	62	66	71	75	80
	150	19	24	28	33	38	43	47	52	57	62	66	71	76	80	85
	160	20	25	30	35	40	45	50	56	61	66	71	76	81	86	91
	170	21	27	32	38	43	48	54	59	64	70	75	80	86	91	97
	180	23	28	34	40	45	51	57	62	68	74	80	85	91	97	102
	190	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108
	200	25	32	38	44	50	57	63	69	76	82	88	95	101	107	114
	210	27	33	40	46	53	60	66	73	80	86	93	99	106	113	119
	220	28	35	42	49	56	62	69	76	83	90	97	104	111	118	125
P E R	230	29	36	44	51	58	65	73	80	87	94	102	109	116	123	131
	240	30	38	45	53	61	68	76	83	91	98	106	114	121	129	136
	250	32	39	47	55	63	71	79	87	95	103	110	118	126	134	142
	260	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
	270	34	43	51	60	68	77	85	94	102	111	119	128	136	145	153
	280	35	44	53	62	71	80	88	97	106	115	124	133	141	150	159
	290	37	46	55	64	73	82	92	101	110	119	128	137	146	156	165
	300	38	47	57	66	76	85	95	104	114	123	133	142	151	161	170
	320	40	50	61	71	81	91	101	111	121	131	141	151	162	172	182
	340	43	54	64	75	86	97	107	118	129	139	150	161	172	182	193
H A	360	45	57	68	80	91	102	114	125	136	148	159	170	182	193	204
	380	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216
	400	50	63	76	88	101	114	126	139	151	164	177	189	202	215	227
	425	54	67	80	94	107	121	134	148	161	174	188	201	215	228	241
	450	57	71	85	99	114	128	142	156	170	185	199	213	227	241	256
	475	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
	500	63	79	95	110	126	142	158	174	189	205	221	237	252	268	284
	525	66	83	99	116	133	149	166	182	199	215	232	249	265	282	298
	550	69	87	104	121	139	156	174	191	208	226	243	260	278	295	312
	575	73	91	109	127	145	163	181	200	218	236	254	272	290	308	327
600	76	95	114	133	151	170	189	208	227	246	265	284	303	322	341	

1.30
LOW GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio... Low		RATE CHART KG PER HA														
Material Density KG/CU DM 1.35		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	40	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	18	19	21	22
	50	-----	-----	-----	-----	-----	-----	-----	-----	18	20	21	23	24	26	27
	60	-----	-----	-----	-----	-----	-----	18	20	22	24	26	27	29	31	33
	70	-----	-----	-----	-----	17	19	21	23	26	28	30	32	34	36	38
	80	-----	-----	-----	17	19	22	24	27	29	32	34	36	39	41	44
	90	-----	-----	-----	19	22	25	27	30	33	36	38	41	44	46	49
	100	-----	-----	18	21	24	27	30	33	36	40	43	46	49	52	55
	110	-----	-----	20	23	27	30	33	37	40	43	47	50	53	57	60
	120	-----	18	22	26	29	33	36	40	44	47	51	55	58	62	66
	130	-----	20	24	28	32	36	40	43	47	51	55	59	63	67	71
	140	17	21	26	30	34	38	43	47	51	55	60	64	68	72	77
150	18	23	27	32	36	41	46	50	55	59	64	68	73	77	82	
160	19	24	29	34	39	44	49	53	58	63	68	73	78	83	88	
170	21	26	31	36	41	46	52	57	62	67	72	77	83	88	93	
180	22	27	33	38	44	49	55	60	66	71	77	82	88	93	98	
190	23	29	35	40	46	52	58	64	69	75	81	87	92	98	104	
200	24	30	36	43	49	55	61	67	73	79	85	91	97	103	109	
210	26	32	38	45	51	57	64	70	77	83	89	96	102	108	115	
220	27	33	40	47	53	60	67	74	80	87	94	100	107	114	120	
230	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	
240	29	36	44	51	58	66	73	80	88	95	102	109	117	124	131	
250	30	38	46	53	61	68	76	84	91	99	106	114	122	129	137	
260	32	40	47	55	63	71	79	87	95	103	111	119	126	134	142	
270	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148	
280	34	43	51	60	68	77	85	94	102	111	119	128	136	145	153	
290	35	44	53	62	70	79	88	97	106	115	123	132	141	150	159	
300	36	46	55	64	73	82	91	100	109	119	128	137	146	155	164	
320	39	49	58	68	78	88	97	107	117	126	136	146	156	165	175	
340	41	52	62	72	83	93	103	114	124	134	145	155	165	176	186	
360	44	55	66	77	88	98	109	120	131	142	153	164	175	186	197	
380	46	58	69	81	92	104	115	127	139	150	162	173	185	196	208	
400	49	61	73	85	97	109	122	134	146	158	170	182	194	207	219	
425	52	65	77	90	103	116	129	142	156	168	181	194	207	220	232	
450	55	68	82	96	109	123	137	150	164	178	191	205	219	232	246	
475	58	72	87	101	115	130	144	159	173	188	202	217	231	245	260	
500	61	76	91	106	122	137	152	167	182	198	213	228	243	258	273	
525	64	80	96	112	128	144	160	175	191	207	223	239	255	271	287	
550	67	84	100	117	134	150	167	184	201	217	234	251	267	284	301	
575	70	87	105	122	140	157	175	192	210	227	245	262	280	297	315	
600	73	91	109	128	146	164	182	201	219	237	255	273	292	310	328	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...Low		RATE CHART KG PER HA													
Material Density KG/CU DM 1.40		Based on use with Medium (Std) Jockey Wheel													
S P R E A D W I D T H I N M E T R E S															
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30														
	40											18	19	20	21
	50								18	19	21	22	23	25	26
	60							18	19	21	23	25	26	28	30
	70						18	21	23	25	27	29	31	33	35
	80					19	21	23	26	28	30	33	35	38	40
	90				18	21	24	26	29	32	34	37	40	42	45
	100			18	21	23	26	29	32	35	38	41	44	47	50
	110			19	23	26	29	32	35	39	42	45	48	52	55
	120		18	21	25	28	32	35	39	42	46	49	53	56	60
K G	130		19	23	27	30	34	38	42	46	50	53	57	61	65
	140		21	25	29	33	37	41	45	49	53	57	62	66	70
	150	18	22	26	31	35	40	44	48	53	57	62	66	70	75
	160	19	23	28	33	38	42	47	52	56	61	66	70	75	80
	170	20	25	30	35	40	45	50	55	60	65	70	75	80	85
	180	21	26	32	37	42	47	53	58	63	69	74	79	84	90
	190	22	28	33	39	45	50	56	61	67	72	78	84	89	95
	200	23	29	35	41	47	53	59	64	70	76	82	88	94	100
	210	25	31	37	43	49	55	62	68	74	80	86	92	98	105
	220	26	32	39	45	52	58	64	71	77	84	90	97	103	110
P E R	230	27	34	40	47	54	61	67	74	81	88	94	101	108	115
	240	28	35	42	49	56	63	70	77	84	91	98	105	113	120
	250	29	37	44	51	59	66	73	81	88	95	103	110	117	125
	260	30	38	46	53	61	69	76	84	91	99	107	114	122	130
	270	32	40	47	55	63	71	79	87	95	103	111	119	127	134
	280	33	41	49	57	66	74	82	90	98	107	115	123	131	139
	290	34	42	51	59	68	76	85	93	102	110	119	127	136	144
	300	35	44	53	62	70	79	88	97	105	114	123	132	141	149
	320	38	47	56	66	75	84	94	103	113	122	131	141	150	159
	340	40	50	60	70	80	90	100	110	120	130	139	149	159	169
H A	360	42	53	63	74	84	95	105	116	127	137	148	158	169	179
	380	45	56	67	78	89	100	111	122	134	145	156	167	178	189
	400	47	59	70	82	94	105	117	129	141	152	164	176	188	199
	425	50	62	75	87	100	112	125	137	149	162	174	187	199	212
	450	53	66	79	92	105	119	132	145	158	171	185	198	211	224
	475	56	70	84	97	111	125	139	153	167	181	195	209	223	237
	500	59	73	88	103	117	132	147	161	176	190	205	220	234	249
	525	62	77	92	108	123	138	154	169	185	200	215	231	246	262
	550	64	81	97	113	129	145	161	177	193	210	226	242	258	274
	575	67	84	101	118	135	152	168	185	202	219	236	253	270	286
600	70	88	105	123	141	158	176	193	211	229	246	264	281	299	

1.40
LOW GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio... Low		RATE CHART KG PER HA														
Material Density KG/CU DM 1.45		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	40	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20
	50	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	20	21	23	24	25
	60	-----	-----	-----	-----	-----	-----	-----	19	20	22	24	25	27	29	31
	70	-----	-----	-----	-----	-----	18	20	22	24	26	28	30	32	34	36
	80	-----	-----	-----	-----	18	20	23	25	27	29	32	34	36	38	41
	90	-----	-----	-----	18	20	23	25	28	31	33	36	38	41	43	46
	100	-----	-----	-----	20	23	25	28	31	34	37	40	42	45	48	51
	110	-----	-----	19	22	25	28	31	34	37	40	44	47	50	53	56
	120	-----	-----	20	24	27	31	34	37	41	44	48	51	54	58	61
130	-----	18	22	26	29	33	37	40	44	48	51	55	59	63	66	
140	-----	20	24	28	32	36	40	44	48	51	55	59	63	67	71	
150	-----	21	25	30	34	38	42	47	51	55	59	64	68	72	76	
160	18	23	27	32	36	41	45	50	54	59	63	68	72	77	81	
170	19	24	29	34	38	43	48	53	58	63	67	72	77	82	87	
180	20	25	31	36	41	46	51	56	61	66	71	76	81	87	92	
190	22	27	32	38	43	48	54	59	65	70	75	81	86	91	97	
200	23	28	34	40	45	51	57	62	68	74	79	85	91	96	102	
210	24	30	36	42	48	53	59	65	71	77	83	89	95	101	107	
220	25	31	37	44	50	56	62	68	75	81	87	93	100	106	112	
230	26	33	39	46	52	59	65	72	78	85	91	98	104	111	117	
240	27	34	41	48	54	61	68	75	81	88	95	102	109	115	122	
250	28	35	42	50	57	64	71	78	85	92	99	106	113	120	127	
260	29	37	44	51	59	66	74	81	88	96	103	110	118	125	132	
270	31	38	46	53	61	69	76	84	92	99	107	115	122	130	137	
280	32	40	48	55	63	71	79	87	95	103	111	119	127	135	143	
290	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148	
300	34	42	51	59	68	76	85	93	102	110	119	127	136	144	153	
320	36	45	54	63	72	81	91	100	109	118	127	136	145	154	163	
340	38	48	58	67	77	87	96	106	115	125	135	144	154	164	173	
360	41	51	61	71	81	92	102	112	122	132	143	153	163	173	183	
380	43	54	65	75	86	97	108	118	129	140	151	161	172	183	194	
400	45	57	68	79	91	102	113	124	136	147	158	170	181	192	204	
425	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	
450	51	64	76	89	102	115	127	140	153	166	178	191	204	216	229	
475	54	67	81	94	108	121	134	148	161	175	188	202	215	228	242	
500	57	71	85	99	113	127	141	156	170	184	198	212	226	240	255	
525	59	74	89	104	119	134	149	163	178	193	208	223	238	253	267	
550	62	78	93	109	124	140	156	171	187	202	218	233	249	265	280	
575	65	81	98	114	130	146	163	179	195	211	228	244	260	277	293	
600	68	85	102	119	136	153	170	187	204	221	238	255	272	289	306	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...Low		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	30															
	40												18	19	20	
	50									18	19	21	22	23	25	
	60							18	20	21	23	25	26	28	30	
	70						17	19	21	23	25	27	29	31	33	34
	80					18	20	22	24	26	28	31	33	35	37	39
	90				17	20	22	25	27	30	32	34	37	39	42	44
	100				19	22	25	27	30	33	36	38	41	44	46	49
	110			18	21	24	27	30	33	36	39	42	45	48	51	54
	120			20	23	26	30	33	36	39	43	46	49	53	56	59
K G	130		18	21	25	28	32	36	39	43	46	50	53	57	60	64
	140		19	23	27	31	34	38	42	46	50	54	57	61	65	69
	150		21	25	29	33	37	41	45	49	53	57	62	66	70	74
	160	18	22	26	31	35	39	44	48	53	57	61	66	70	74	79
	170	19	23	28	33	37	42	46	51	56	60	65	70	74	79	84
	180	20	25	30	34	39	44	49	54	59	64	69	74	79	84	89
	190	21	26	31	36	42	47	52	57	62	68	73	78	83	88	94
	200	22	27	33	38	44	49	55	60	66	71	77	82	88	93	98
	210	23	29	34	40	46	52	57	63	69	75	80	86	92	98	103
	220	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108
P E R	230	25	31	38	44	50	57	63	69	75	82	88	94	101	107	113
	240	26	33	39	46	53	59	66	72	79	85	92	98	105	112	118
	250	27	34	41	48	55	62	68	75	82	89	96	103	109	116	123
	260	28	36	43	50	57	64	71	78	85	92	100	107	114	121	128
	270	30	37	44	52	59	66	74	81	89	96	103	111	118	126	133
	280	31	38	46	54	61	69	77	84	92	100	107	115	123	130	138
	290	32	40	48	56	63	71	79	87	95	103	111	119	127	135	143
	300	33	41	49	57	66	74	82	90	98	107	115	123	131	139	148
	320	35	44	53	61	70	79	88	96	105	114	123	131	140	149	158
	340	37	46	56	65	74	84	93	102	112	121	130	139	149	158	167
H A	360	39	49	59	69	79	89	98	108	118	128	138	148	158	167	177
	380	42	52	62	73	83	94	104	114	125	135	145	156	166	177	187
	400	44	55	66	77	88	98	109	120	131	142	153	164	175	186	197
	425	46	58	70	81	93	105	116	128	139	151	163	174	186	198	209
	450	49	62	74	86	98	111	123	135	148	160	172	185	197	209	222
	475	52	65	78	91	104	117	130	143	156	169	182	195	208	221	234
	500	55	68	82	96	109	123	137	150	164	178	191	205	219	232	246
	525	57	72	86	101	115	129	144	158	172	187	201	215	230	244	258
	550	60	75	90	105	120	135	150	165	181	196	211	226	241	256	271
	575	63	79	94	110	126	142	157	173	189	204	220	236	252	267	283
600	66	82	98	115	131	148	164	181	197	213	230	246	263	279	295	

1.50
LOW GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA																
Material Density KG/CU DM 0.75		Based on use with Medium (Std) Jockey Wheel																
		S P R E A D W I D T H I N M E T R E S																
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36		
HIGH GEAR	R A T E	100	-----	-----	-----	-----	-----	19	21	23	25	27	29	31	33	35	37	
		110	-----	-----	-----	-----	-----	18	20	23	25	27	29	32	34	36	38	41
		120	-----	-----	-----	17	20	22	25	27	30	32	35	37	40	42	44	
		130	-----	-----	-----	19	21	24	27	29	32	35	37	40	43	45	48	
		140	-----	-----	17	20	23	26	29	32	35	37	40	43	46	49	52	
		150	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56	
		160	-----	-----	20	23	26	30	33	36	40	43	46	49	53	56	59	
		170	-----	17	21	24	28	31	35	38	42	45	49	52	56	59	63	
		180	-----	19	22	26	30	33	37	41	44	48	52	56	59	63	67	
		190	-----	20	23	27	31	35	39	43	47	51	55	59	63	66	70	
K G	P E R	200	-----	21	25	29	33	37	41	45	49	54	58	62	66	70	74	
		210	17	22	26	30	35	39	43	48	52	56	61	65	69	73	78	
		220	18	23	27	32	36	41	45	50	54	59	63	68	72	77	82	
		230	19	24	28	33	38	43	47	52	57	62	66	71	76	80	85	
		240	20	25	30	35	40	44	49	54	59	64	69	74	79	84	89	
		250	21	26	31	36	41	46	51	57	62	67	72	77	82	87	93	
		260	21	27	32	37	43	48	54	59	64	70	75	80	86	91	96	
		270	22	28	33	39	44	50	56	61	67	72	78	83	89	94	100	
		280	23	29	35	40	46	52	58	63	69	75	81	86	92	98	104	
		290	24	30	36	42	48	54	60	66	72	78	84	90	96	101	107	
H A	P E R	300	25	31	37	43	49	56	62	68	74	80	86	93	99	105	111	
		320	26	33	40	46	53	59	66	72	79	86	92	99	105	112	119	
		340	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	
		360	30	37	44	52	59	67	74	82	89	96	104	111	119	126	133	
		400	33	41	49	58	66	74	82	91	99	107	115	124	132	140	148	
		500	41	51	62	72	82	93	103	113	124	134	144	154	165	175	185	
		600	49	62	74	86	99	111	124	136	148	161	173	185	198	210	222	
		700	58	72	86	101	115	130	144	158	173	187	202	216	231	245	259	
		800	66	82	99	115	132	148	165	181	198	214	231	247	263	280	296	
		900	74	93	111	130	148	167	185	204	222	241	259	278	296	315	333	
H A	P E R	1000	82	103	124	144	165	185	206	226	247	268	288	309	329	350	371	
		1250	103	129	154	180	206	232	257	283	309	334	360	386	-----	-----	-----	
		1500	124	154	185	216	247	278	309	340	371	-----	-----	-----	-----	-----	-----	
		1750	144	180	216	252	288	324	360	396	-----	-----	-----	-----	-----	-----	-----	
		2000	165	206	247	288	329	371	-----	-----	-----	-----	-----	-----	-----	-----	-----	
		2500	206	257	309	360	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
		3000	247	309	371	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	100	-----	-----	-----	-----	-----	17	19	21	23	25	27	29	31	33	35
	110	-----	-----	-----	-----	-----	19	21	23	25	28	30	32	34	36	38
	120	-----	-----	-----	-----	19	21	23	25	28	30	32	35	37	39	42
	130	-----	-----	-----	18	20	23	25	28	30	33	35	38	40	43	45
	140	-----	-----	-----	19	22	24	27	30	32	35	38	41	43	46	49
	150	-----	-----	17	20	23	26	29	32	35	38	41	43	46	49	52
	160	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
	170	-----	-----	20	23	26	30	33	36	39	43	46	49	52	56	59
	180	-----	17	21	24	28	31	35	38	42	45	49	52	56	59	63
	190	-----	18	22	26	29	33	37	40	44	48	51	55	59	62	66
	200	-----	19	23	27	31	35	39	42	46	50	54	58	62	66	69
	210	-----	20	24	28	32	36	41	45	49	53	57	61	65	69	73
	220	-----	21	25	30	34	38	42	47	51	55	59	64	68	72	76
	230	18	22	27	31	36	40	44	49	53	58	62	67	71	75	80
	240	19	23	28	32	37	42	46	51	56	60	65	69	74	79	83
	250	19	24	29	34	39	43	48	53	58	63	68	72	77	82	87
	260	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
	270	21	26	31	36	42	47	52	57	63	68	73	78	83	89	94
	280	22	27	32	38	43	49	54	59	65	70	76	81	86	92	97
	290	22	28	34	39	45	50	56	62	67	73	78	84	90	95	101
	300	23	29	35	41	46	52	58	64	69	75	81	87	93	98	104
	320	25	31	37	43	49	56	62	68	74	80	86	93	99	105	111
	340	26	33	39	46	52	59	66	72	79	85	92	98	105	112	118
	360	28	35	42	49	56	63	69	76	83	90	97	104	111	118	125
	400	31	39	46	54	62	69	77	85	93	100	108	116	124	131	139
	500	39	48	58	68	77	87	96	106	116	125	135	145	154	164	174
	600	46	58	69	81	93	104	116	127	139	151	162	174	185	197	208
	700	54	68	81	95	108	122	135	149	162	176	189	203	216	230	243
	800	62	77	93	108	124	139	154	170	185	201	216	232	247	262	278
	900	69	87	104	122	139	156	174	191	208	226	243	261	278	295	313
1000	77	96	116	135	154	174	193	212	232	251	270	289	309	328	347	
1250	96	121	145	169	193	217	241	265	289	314	338	362	386	-----	-----	
1500	116	145	174	203	232	261	289	318	347	376	-----	-----	-----	-----	-----	
1750	135	169	203	236	270	304	338	371	-----	-----	-----	-----	-----	-----	-----	
2000	154	193	232	270	309	347	386	-----	-----	-----	-----	-----	-----	-----	-----	
2500	193	241	289	338	386	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
3000	232	289	347	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	

0.80
HIGH GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA															
Material Density KG/CU DM 0.85		Based on use with Medium (Std) Jockey Wheel															
S P R E A D W I D T H I N M E T R E S																	
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
HIGH GEAR	R A T E	100	-----	-----	-----	-----	-----	18	20	22	24	25	27	29	31	33	
		110	-----	-----	-----	-----	-----	18	20	22	24	26	28	30	32	34	36
		120	-----	-----	-----	-----	17	20	22	24	26	28	31	33	35	37	39
		130	-----	-----	-----	-----	19	21	24	26	28	31	33	35	38	40	42
		140	-----	-----	-----	18	20	23	25	28	31	33	36	38	41	43	46
		150	-----	-----	-----	19	22	25	27	30	33	35	38	41	44	46	49
		160	-----	-----	17	20	23	26	29	32	35	38	41	44	46	49	52
		170	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
		180	-----	-----	20	23	26	29	33	36	39	42	46	49	52	56	59
		190	-----	17	21	24	28	31	35	38	41	45	48	52	55	59	62
K G	P E R	200	-----	18	22	25	29	33	36	40	44	47	51	54	58	62	65
		210	-----	19	23	27	31	34	38	42	46	50	53	57	61	65	69
		220	-----	20	24	28	32	36	40	44	48	52	56	60	64	68	72
		230	-----	21	25	29	33	38	42	46	50	54	58	63	67	71	75
		240	17	22	26	31	35	39	44	48	52	57	61	65	70	74	78
		250	18	23	27	32	36	41	45	50	54	59	64	68	73	77	82
		260	19	24	28	33	38	42	47	52	57	61	66	71	76	80	85
		270	20	25	29	34	39	44	49	54	59	64	69	74	78	83	88
		280	20	25	31	36	41	46	51	56	61	66	71	76	81	86	92
		290	21	26	32	37	42	47	53	58	63	68	74	79	84	90	95
H A	P E R	300	22	27	33	38	44	49	54	60	65	71	76	82	87	93	98
		320	23	29	35	41	46	52	58	64	70	76	81	87	93	99	105
		340	25	31	37	43	49	56	62	68	74	80	86	93	99	105	111
		360	26	33	39	46	52	59	65	72	78	85	92	98	105	111	118
		400	29	36	44	51	58	65	73	80	87	94	102	109	116	124	131
		500	36	45	54	64	73	82	91	100	109	118	127	136	145	154	163
		600	44	54	65	76	87	98	109	120	131	142	153	163	174	185	196
		700	51	64	76	89	102	114	127	140	153	165	178	191	203	216	229
		800	58	73	87	102	116	131	145	160	174	189	203	218	232	247	262
		900	65	82	98	114	131	147	163	180	196	212	229	245	262	278	294
		1000	73	91	109	127	145	163	182	200	218	236	254	272	291	309	327
		1250	91	114	136	159	182	204	227	250	272	295	318	341	363	386	-----
		1500	109	136	163	191	218	245	272	300	327	354	381	-----	-----	-----	-----
		1750	127	159	191	222	254	286	318	350	381	-----	-----	-----	-----	-----	-----
		2000	145	182	218	254	291	327	363	400	-----	-----	-----	-----	-----	-----	-----
		2500	182	227	272	318	363	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
		3000	218	272	327	381	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	100	-----	-----	-----	-----	-----	-----	17	19	21	22	24	26	27	29	31
	110	-----	-----	-----	-----	-----	-----	19	21	23	25	26	28	30	32	34
	120	-----	-----	-----	-----	-----	19	21	23	25	27	29	31	33	35	37
	130	-----	-----	-----	-----	18	20	22	25	27	29	31	33	36	38	40
	140	-----	-----	-----	-----	19	22	24	26	29	31	34	36	38	41	43
	150	-----	-----	-----	18	21	23	26	28	31	33	36	39	41	44	46
	160	-----	-----	-----	19	22	25	27	30	33	36	38	41	44	47	49
	170	-----	-----	17	20	23	26	29	32	35	38	41	44	47	50	52
	180	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
	190	-----	-----	20	23	26	29	33	36	39	42	46	49	52	55	59
	200	-----	17	21	24	27	31	34	38	41	45	48	51	55	58	62
	210	-----	18	22	25	29	32	36	40	43	47	50	54	58	61	65
	220	-----	19	23	26	30	34	38	42	45	49	53	57	60	64	68
	230	-----	20	24	28	32	36	39	43	47	51	55	59	63	67	71
	240	-----	21	25	29	33	37	41	45	49	54	58	62	66	70	74
	250	17	21	26	30	34	39	43	47	51	56	60	64	69	73	77
	260	18	22	27	31	36	40	45	49	54	58	62	67	71	76	80
	270	19	23	28	32	37	42	46	51	56	60	65	69	74	79	83
	280	19	24	29	34	38	43	48	53	58	62	67	72	77	82	86
	290	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
	300	21	26	31	36	41	46	51	57	62	67	72	77	82	87	93
	320	22	27	33	38	44	49	55	60	66	71	77	82	88	93	99
	340	23	29	35	41	47	52	58	64	70	76	82	87	93	99	105
	360	25	31	37	43	49	56	62	68	74	80	86	93	99	105	111
	400	27	34	41	48	55	62	69	75	82	89	96	103	110	117	124
	500	34	43	51	60	69	77	86	94	103	111	120	129	137	146	154
	600	41	51	62	72	82	93	103	113	124	134	144	154	165	175	185
	700	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216
	800	55	69	82	96	110	124	137	151	165	178	192	206	220	233	247
	900	62	77	93	108	124	139	154	170	185	201	216	232	247	262	278
1000	69	86	103	120	137	154	172	189	206	223	240	257	274	292	309	
1250	86	107	129	150	172	193	214	236	257	279	300	322	343	365	386	
1500	103	129	154	180	206	232	257	283	309	334	360	386	-----	-----	-----	
1750	120	150	180	210	240	270	300	330	360	390	-----	-----	-----	-----	-----	
2000	137	172	206	240	274	309	343	377	-----	-----	-----	-----	-----	-----	-----	
2500	172	214	257	300	343	386	-----	-----	-----	-----	-----	-----	-----	-----	-----	
3000	206	257	309	360	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	

0.90
HIGH GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA																
Material Density KG/CU DM 0.95		Based on use with Medium (Std) Jockey Wheel																
		S P R E A D W I D T H I N M E T R E S																
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36		
HIGH GEAR	R A T E	100	-----	-----	-----	-----	-----	-----	-----	18	20	21	23	24	26	28	29	
		110	-----	-----	-----	-----	-----	-----	-----	18	20	21	23	25	27	29	30	32
		120	-----	-----	-----	-----	-----	18	20	21	23	25	27	29	31	33	35	
		130	-----	-----	-----	-----	-----	19	21	23	25	27	30	32	34	36	38	
		140	-----	-----	-----	-----	18	20	23	25	27	30	32	34	36	39	41	
		150	-----	-----	-----	17	20	22	24	27	29	32	34	37	39	41	44	
		160	-----	-----	-----	18	21	23	26	29	31	34	36	39	42	44	47	
		170	-----	-----	-----	19	22	25	28	30	33	36	39	41	44	47	50	
		180	-----	-----	18	20	23	26	29	32	35	38	41	44	47	50	53	
		190	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56	
	200	-----	-----	20	23	26	29	33	36	39	42	46	49	52	55	59		
	210	-----	17	20	24	27	31	34	38	41	44	48	51	55	58	61		
	220	-----	18	21	25	29	32	36	39	43	46	50	54	57	61	64		
	230	-----	19	22	26	30	34	37	41	45	49	52	56	60	64	67		
	240	-----	20	23	27	31	35	39	43	47	51	55	59	62	66	70		
	250	-----	20	24	28	33	37	41	45	49	53	57	61	65	69	73		
	260	-----	21	25	30	34	38	42	46	51	55	59	63	68	72	76		
	K G	270	18	22	26	31	35	39	44	48	53	57	61	66	70	75	79	
		280	18	23	27	32	36	41	46	50	55	59	64	68	73	77	82	
		290	19	24	28	33	38	42	47	52	57	61	66	71	75	80	85	
300		20	24	29	34	39	44	49	54	59	63	68	73	78	83	88		
320		21	26	31	36	42	47	52	57	62	68	73	78	83	88	94		
340		22	28	33	39	44	50	55	61	66	72	77	83	88	94	99		
360		23	29	35	41	47	53	59	64	70	76	82	88	94	99	105		
400		26	33	39	46	52	59	65	72	78	85	91	98	104	111	117		
500		33	41	49	57	65	73	81	89	98	106	114	122	130	138	146		
600		39	49	59	68	78	88	98	107	117	127	137	146	156	166	176		
P E R	700	46	57	68	80	91	102	114	125	137	148	159	171	182	193	205		
	800	52	65	78	91	104	117	130	143	156	169	182	195	208	221	234		
	900	59	73	88	102	117	132	146	161	176	190	205	219	234	249	263		
	1000	65	81	98	114	130	146	163	179	195	211	228	244	260	276	293		
	1250	81	102	122	142	163	183	203	223	244	264	284	305	325	345	366		
	1500	98	122	146	171	195	219	244	268	293	317	341	366	390	-----	-----		
	1750	114	142	171	199	228	256	284	313	341	370	398	-----	-----	-----	-----		
	2000	130	163	195	228	260	293	325	358	390	-----	-----	-----	-----	-----	-----		
	2500	163	203	244	284	325	366	-----	-----	-----	-----	-----	-----	-----	-----	-----		
	3000	195	244	293	341	390	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----		

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	100	-----	-----	-----	-----	-----	-----	-----	19	20	22	23	25	26	28	
	110	-----	-----	-----	-----	-----	-----	-----	19	20	22	24	25	27	29	31
	120	-----	-----	-----	-----	-----	-----	19	20	22	24	26	28	30	31	33
	130	-----	-----	-----	-----	-----	18	20	22	24	26	28	30	32	34	36
	140	-----	-----	-----	-----	17	19	22	24	26	28	30	32	35	37	39
	150	-----	-----	-----	-----	19	21	23	25	28	30	32	35	37	39	42
	160	-----	-----	-----	17	20	22	25	27	30	32	35	37	40	42	44
	170	-----	-----	-----	18	21	24	26	29	31	34	37	39	42	45	47
	180	-----	-----	-----	19	22	25	28	31	33	36	39	42	44	47	50
	190	-----	-----	18	21	23	26	29	32	35	38	41	44	47	50	53
	200	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
	210	-----	-----	19	23	26	29	32	36	39	42	45	49	52	55	58
	220	-----	-----	20	24	27	31	34	37	41	44	48	51	54	58	61
	230	-----	18	21	25	28	32	36	39	43	46	50	53	57	60	64
	240	-----	19	22	26	30	33	37	41	44	48	52	56	59	63	67
	250	-----	19	23	27	31	35	39	42	46	50	54	58	62	66	69
	260	-----	20	24	28	32	36	40	44	48	52	56	60	64	68	72
	270	-----	21	25	29	33	38	42	46	50	54	58	63	67	71	75
	280	17	22	26	30	35	39	43	48	52	56	61	65	69	73	78
	290	18	22	27	31	36	40	45	49	54	58	63	67	72	76	81
	300	19	23	28	32	37	42	46	51	56	60	65	69	74	79	83
	320	20	25	30	35	40	44	49	54	59	64	69	74	79	84	89
	340	21	26	31	37	42	47	52	58	63	68	73	79	84	89	94
	360	22	28	33	39	44	50	56	61	67	72	78	83	89	94	100
	400	25	31	37	43	49	56	62	68	74	80	86	93	99	105	111
	500	31	39	46	54	62	69	77	85	93	100	108	116	124	131	139
	600	37	46	56	65	74	83	93	102	111	120	130	139	148	157	167
	700	43	54	65	76	86	97	108	119	130	140	151	162	173	184	195
	800	49	62	74	86	99	111	124	136	148	161	173	185	198	210	222
	900	56	69	83	97	111	125	139	153	167	181	195	208	222	236	250
1000	62	77	93	108	124	139	154	170	185	201	216	232	247	262	278	
1250	77	96	116	135	154	174	193	212	232	251	270	289	309	328	347	
1500	93	116	139	162	185	208	232	255	278	301	324	347	371	394	-----	
1750	108	135	162	189	216	243	270	297	324	351	378	-----	-----	-----	-----	
2000	124	154	185	216	247	278	309	340	371	-----	-----	-----	-----	-----	-----	
2500	154	193	232	270	309	347	386	-----	-----	-----	-----	-----	-----	-----	-----	
3000	185	232	278	324	371	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	

1.00
HIGH GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA															
Material Density KG/CU DM 1.05		Based on use with Medium (Std) Jockey Wheel															
		S P R E A D W I D T H I N M E T R E S															
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
HIGH GEAR	R A T E	100	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	25	26	
		110	-----	-----	-----	-----	-----	-----	-----	18	19	21	23	24	26	27	29
		120	-----	-----	-----	-----	-----	-----	18	19	21	23	25	26	28	30	32
		130	-----	-----	-----	-----	-----	17	19	21	23	25	27	29	31	32	34
		140	-----	-----	-----	-----	-----	19	21	23	25	27	29	31	33	35	37
		150	-----	-----	-----	-----	18	20	22	24	26	29	31	33	35	37	40
		160	-----	-----	-----	-----	19	21	24	26	28	31	33	35	38	40	42
		170	-----	-----	-----	17	20	22	25	27	30	32	35	37	40	42	45
		180	-----	-----	-----	19	21	24	26	29	32	34	37	40	42	45	48
		190	-----	-----	-----	20	22	25	28	31	34	36	39	42	45	47	50
	200	-----	-----	18	21	24	26	29	32	35	38	41	44	47	50	53	
	210	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56	
	220	-----	-----	19	23	26	29	32	36	39	42	45	49	52	55	58	
	230	-----	-----	20	24	27	30	34	37	41	44	47	51	54	57	61	
	240	-----	18	21	25	28	32	35	39	42	46	49	53	56	60	64	
	K G	250	-----	18	22	26	29	33	37	40	44	48	51	55	59	62	66
		260	-----	19	23	27	31	34	38	42	46	50	54	57	61	65	69
		270	-----	20	24	28	32	36	40	44	48	52	56	60	64	67	71
		280	-----	21	25	29	33	37	41	45	49	54	58	62	66	70	74
		290	17	21	26	30	34	38	43	47	51	55	60	64	68	72	77
300		18	22	26	31	35	40	44	49	53	57	62	66	71	75	79	
320		19	24	28	33	38	42	47	52	56	61	66	71	75	80	85	
340		20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
360		21	26	32	37	42	48	53	58	64	69	74	79	85	90	95	
400		24	29	35	41	47	53	59	65	71	76	82	88	94	100	106	
P E R	500	29	37	44	51	59	66	74	81	88	96	103	110	118	125	132	
	600	35	44	53	62	71	79	88	97	106	115	124	132	141	150	159	
	700	41	51	62	72	82	93	103	113	124	134	144	154	165	175	185	
	800	47	59	71	82	94	106	118	129	141	153	165	176	188	200	212	
	900	53	66	79	93	106	119	132	146	159	172	185	198	212	225	238	
	1000	59	74	88	103	118	132	147	162	176	191	206	221	235	250	265	
	1250	74	92	110	129	147	165	184	202	221	239	257	276	294	312	331	
	1500	88	110	132	154	176	198	221	243	265	287	309	331	353	375	397	
	1750	103	129	154	180	206	232	257	283	309	334	360	386	-----	-----	-----	
	2000	118	147	176	206	235	265	294	323	353	382	-----	-----	-----	-----	-----	
H A	2500	147	184	221	257	294	331	368	-----	-----	-----	-----	-----	-----	-----		
	3000	176	221	265	309	353	397	-----	-----	-----	-----	-----	-----	-----	-----		

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	100	-----	-----	-----	-----	-----	-----	-----	-----	18	20	21	22	24	25	
	110	-----	-----	-----	-----	-----	-----	-----	19	20	22	23	25	26	28	
	120	-----	-----	-----	-----	-----	-----	-----	19	20	22	24	25	27	29	30
	130	-----	-----	-----	-----	-----	-----	18	20	22	24	26	27	29	31	33
	140	-----	-----	-----	-----	-----	18	20	22	24	26	28	29	31	33	35
	150	-----	-----	-----	-----	-----	19	21	23	25	27	29	32	34	36	38
	160	-----	-----	-----	-----	18	20	22	25	27	29	31	34	36	38	40
	170	-----	-----	-----	-----	19	21	24	26	29	31	33	36	38	41	43
	180	-----	-----	-----	18	20	23	25	28	30	33	35	38	40	43	45
	190	-----	-----	-----	19	21	24	27	29	32	35	37	40	43	45	48
	200	-----	-----	-----	20	22	25	28	31	34	36	39	42	45	48	51
	210	-----	-----	18	21	24	27	29	32	35	38	41	44	47	50	53
	220	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
	230	-----	-----	19	23	26	29	32	36	39	42	45	48	52	55	58
	240	-----	-----	20	24	27	30	34	37	40	44	47	51	54	57	61
	250	-----	18	21	25	28	32	35	39	42	46	49	53	56	60	63
	260	-----	18	22	26	29	33	36	40	44	47	51	55	58	62	66
	270	-----	19	23	27	30	34	38	42	45	49	53	57	61	64	68
	280	-----	20	24	28	31	35	39	43	47	51	55	59	63	67	71
	290	-----	20	24	28	33	37	41	45	49	53	57	61	65	69	73
	300	-----	21	25	29	34	38	42	46	51	55	59	63	67	72	76
	320	18	22	27	31	36	40	45	49	54	58	63	67	72	76	81
	340	19	24	29	33	38	43	48	52	57	62	67	72	76	81	86
	360	20	25	30	35	40	45	51	56	61	66	71	76	81	86	91
	400	22	28	34	39	45	51	56	62	67	73	79	84	90	95	101
	500	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126
	600	34	42	51	59	67	76	84	93	101	109	118	126	135	143	152
	700	39	49	59	69	79	88	98	108	118	128	138	147	157	167	177
	800	45	56	67	79	90	101	112	124	135	146	157	168	180	191	202
	900	51	63	76	88	101	114	126	139	152	164	177	189	202	215	227
1000	56	70	84	98	112	126	140	154	168	182	196	211	225	239	253	
1250	70	88	105	123	140	158	175	193	211	228	246	263	281	298	316	
1500	84	105	126	147	168	189	211	232	253	274	295	316	337	358	379	
1750	98	123	147	172	196	221	246	270	295	319	344	368	393	-----	-----	
2000	112	140	168	196	225	253	281	309	337	365	393	-----	-----	-----	-----	
2500	140	175	211	246	281	316	351	386	-----	-----	-----	-----	-----	-----	-----	
3000	176	168	211	253	295	337	379	-----	-----	-----	-----	-----	-----	-----	-----	

1.10
HIGH GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA															
Material Density KG/CU DM 1.15		Based on use with Medium (Std) Jockey Wheel															
		S P R E A D W I D T H I N M E T R E S															
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
HIGH GEAR	R A T E	100	-----	-----	-----	-----	-----	-----	-----	-----	17	19	20	21	23	24	
		110	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	25	27
		120	-----	-----	-----	-----	-----	-----	-----	18	19	21	23	24	26	27	29
		130	-----	-----	-----	-----	-----	-----	17	19	21	23	24	26	28	30	31
		140	-----	-----	-----	-----	-----	-----	19	21	23	24	26	28	30	32	34
		150	-----	-----	-----	-----	-----	18	20	22	24	26	28	30	32	34	36
		160	-----	-----	-----	-----	17	19	21	24	26	28	30	32	34	37	39
		170	-----	-----	-----	-----	18	21	23	25	27	30	32	34	37	39	41
		180	-----	-----	-----	-----	19	22	24	27	29	31	34	36	39	41	43
		190	-----	-----	18	20	23	26	28	31	33	36	38	41	43	46	48
K G	P E R	200	-----	-----	19	21	24	27	30	32	35	38	40	43	46	48	
		210	-----	-----	20	23	25	28	31	34	37	39	42	45	48	51	
		220	-----	-----	18	21	24	27	30	32	35	38	41	44	47	50	53
		230	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
		240	-----	-----	19	23	26	29	32	35	39	42	45	48	52	55	58
		250	-----	-----	20	23	27	30	34	37	40	44	47	50	54	57	60
		260	-----	17	21	24	28	31	35	38	42	45	49	52	56	59	63
		270	-----	18	22	25	29	33	36	40	43	47	51	54	58	62	65
		280	-----	19	23	26	30	34	38	41	45	49	53	56	60	64	68
		290	-----	19	23	27	31	35	39	43	47	51	55	58	62	66	70
H A	R A T E	300	-----	20	24	28	32	36	40	44	48	52	56	60	64	72	
		320	17	21	26	30	34	39	43	47	52	56	60	64	69	73	77
		340	18	23	27	32	37	41	46	50	55	59	64	68	73	78	82
		360	19	24	29	34	39	43	48	53	58	63	68	72	77	82	87
		400	21	27	32	38	43	48	54	59	64	70	75	81	86	91	97
		500	27	34	40	47	54	60	67	74	81	87	94	101	107	114	121
		600	32	40	48	56	64	72	81	89	97	105	113	121	129	137	145
		700	38	47	56	66	75	85	94	103	113	122	132	141	150	160	169
		800	43	54	64	75	86	97	107	118	129	140	150	161	172	183	193
		900	48	60	72	85	97	109	121	133	145	157	169	181	193	205	217
		1000	54	67	81	94	107	121	134	148	161	175	188	201	215	228	242
		1250	67	84	101	117	134	151	168	185	201	218	235	252	268	285	302
		1500	81	101	121	141	161	181	201	222	242	262	282	302	322	342	362
		1750	94	117	141	164	188	211	235	258	282	305	329	352	376	399	423
		2000	107	134	161	188	215	242	268	295	322	349	376	-----	-----	-----	-----
		2500	134	168	201	235	268	302	336	369	-----	-----	-----	-----	-----	-----	-----
		3000	161	201	242	282	322	362	-----	-----	-----	-----	-----	-----	-----	-----	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	23
	110	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	20	21	23	24	25
	120	-----	-----	-----	-----	-----	-----	-----	-----	19	20	22	23	25	26	28
	130	-----	-----	-----	-----	-----	-----	-----	18	20	22	23	25	27	28	30
	140	-----	-----	-----	-----	-----	-----	18	20	22	23	25	27	29	31	32
	150	-----	-----	-----	-----	-----	17	19	21	23	25	27	29	31	33	35
	160	-----	-----	-----	-----	-----	19	21	23	25	27	29	31	33	35	37
	170	-----	-----	-----	-----	17	20	22	24	26	28	31	33	35	37	39
	180	-----	-----	-----	-----	19	21	23	25	28	30	32	35	37	39	42
	190	-----	-----	-----	17	20	22	24	27	29	32	34	37	39	42	44
	200	-----	-----	-----	18	21	23	26	28	31	33	36	39	41	44	46
	210	-----	-----	-----	19	22	24	27	30	32	35	38	41	43	46	49
	220	-----	-----	-----	20	23	25	28	31	34	37	40	42	45	48	51
	230	-----	-----	18	21	24	27	30	33	36	38	41	44	47	50	53
	240	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
	250	-----	-----	19	23	26	29	32	35	39	42	45	48	51	55	58
	260	-----	-----	20	23	27	30	33	37	40	43	47	50	54	57	60
	270	-----	17	21	24	28	31	35	38	42	45	49	52	56	59	63
	280	-----	18	22	25	29	32	36	40	43	47	50	54	58	61	65
	290	-----	19	22	26	30	34	37	41	45	49	52	56	60	63	67
	300	-----	19	23	27	31	35	39	42	46	50	54	58	62	66	69
	320	-----	21	25	29	33	37	41	45	49	54	58	62	66	70	74
	340	17	22	26	31	35	39	44	48	52	57	61	66	70	74	79
	360	19	23	28	32	37	42	46	51	56	60	65	69	74	79	83
	400	21	26	31	36	41	46	51	57	62	67	72	77	82	87	93
	500	26	32	39	45	51	58	64	71	77	84	90	96	103	109	116
	600	31	39	46	54	62	69	77	85	93	100	108	116	124	131	139
	700	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162
	800	41	51	62	72	82	93	103	113	124	134	144	154	165	175	185
	900	46	58	69	81	93	104	116	127	139	151	162	174	185	197	208
1000	51	64	77	90	103	116	129	142	154	167	180	193	206	219	232	
1250	64	80	96	113	129	145	161	177	193	209	225	241	257	273	289	
1500	77	96	116	135	154	174	193	212	232	251	270	289	309	328	347	
1750	90	113	135	158	180	203	225	248	270	293	315	338	360	383	-----	
2000	103	129	154	180	206	232	257	283	309	334	360	386	-----	-----	-----	
2500	129	161	193	225	257	289	322	354	386	-----	-----	-----	-----	-----	-----	
3000	154	193	232	270	309	347	386	-----	-----	-----	-----	-----	-----	-----	-----	

1.20
HIGH GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA															
Material Density KG/CU DM 1.25		Based on use with Medium (Std) Jockey Wheel															
		S P R E A D W I D T H I N M E T R E S															
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
HIGH GEAR	R A T E	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	19	20	21	22	
		110	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20	22	23	24
		120	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	25	27
		130	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	26	27	29
		140	-----	-----	-----	-----	-----	-----	17	19	21	22	24	26	28	29	31
		150	-----	-----	-----	-----	-----	-----	19	20	22	24	26	28	30	31	33
		160	-----	-----	-----	-----	-----	18	20	22	24	26	28	30	32	34	36
		170	-----	-----	-----	-----	-----	19	21	23	25	27	29	31	34	36	38
		180	-----	-----	-----	-----	18	20	22	24	27	29	31	33	36	38	40
		190	-----	-----	-----	-----	19	21	23	26	28	31	33	35	38	40	42
	200	-----	-----	-----	17	20	22	25	27	30	32	35	37	40	42	44	
	210	-----	-----	-----	18	21	23	26	29	31	34	36	39	41	44	47	
	220	-----	-----	-----	19	22	24	27	30	33	35	38	41	43	46	49	
	230	-----	-----	17	20	23	26	28	31	34	37	40	43	45	48	51	
	240	-----	-----	18	21	24	27	30	33	36	39	41	44	47	50	53	
	250	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56	
	260	-----	-----	19	22	26	29	32	35	39	42	45	48	51	55	58	
	270	-----	-----	20	23	27	30	33	37	40	43	47	50	53	57	60	
	K G	280	-----	17	21	24	28	31	35	38	41	45	48	52	55	59	62
		290	-----	18	21	25	29	32	36	39	43	47	50	54	57	61	64
300		-----	19	22	26	30	33	37	41	44	48	52	56	59	63	67	
320		-----	20	24	28	32	36	40	43	47	51	55	59	63	67	71	
340		-----	21	25	29	34	38	42	46	50	55	59	63	67	71	76	
360		18	22	27	31	36	40	44	49	53	58	62	67	71	76	80	
400		20	25	30	35	40	44	49	54	59	64	69	74	79	84	89	
500		25	31	37	43	49	56	62	68	74	80	86	93	99	105	111	
600		30	37	44	52	59	67	74	82	89	96	104	111	119	126	133	
700		35	43	52	61	69	78	86	95	104	112	121	130	138	147	156	
P E R A	800	40	49	59	69	79	89	99	109	119	128	138	148	158	168	178	
	900	44	56	67	78	89	100	111	122	133	144	156	167	178	189	200	
	1000	49	62	74	86	99	111	124	136	148	161	173	185	198	210	222	
	1250	62	77	93	108	124	139	154	170	185	201	216	232	247	262	278	
	1500	74	93	111	130	148	167	185	204	222	241	259	278	296	315	333	
	1750	86	108	130	151	173	195	216	238	259	281	303	324	346	367	389	
	2000	99	124	148	173	198	222	247	272	296	321	346	371	395	-----	-----	
	2500	124	154	185	216	247	278	309	340	371	-----	-----	-----	-----	-----	-----	
	3000	148	185	222	259	296	333	371	-----	-----	-----	-----	-----	-----	-----	-----	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20	21
	110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	20	21	22	24
	120	-----	-----	-----	-----	-----	-----	-----	-----	17	19	20	21	23	24	26
	130	-----	-----	-----	-----	-----	-----	-----	-----	19	20	22	23	25	26	28
	140	-----	-----	-----	-----	-----	-----	-----	18	20	22	23	25	27	28	30
	150	-----	-----	-----	-----	-----	-----	18	20	21	23	25	27	29	30	32
	160	-----	-----	-----	-----	-----	17	19	21	23	25	27	29	30	32	34
	170	-----	-----	-----	-----	-----	18	20	22	24	26	28	30	32	34	36
	180	-----	-----	-----	-----	17	19	21	24	26	28	30	32	34	36	38
	190	-----	-----	-----	-----	18	20	23	25	27	29	32	34	36	38	41
	200	-----	-----	-----	-----	19	21	24	26	29	31	33	36	38	40	43
	210	-----	-----	-----	17	20	22	25	27	30	32	35	37	40	42	45
	220	-----	-----	-----	18	21	24	26	29	31	34	37	39	42	44	47
	230	-----	-----	-----	19	22	25	27	30	33	36	38	41	44	46	49
	240	-----	-----	17	20	23	26	29	31	34	37	40	43	46	48	51
	250	-----	-----	18	21	24	27	30	33	36	39	42	45	48	50	53
	260	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
	270	-----	-----	19	22	26	29	32	35	38	42	45	48	51	55	58
	280	-----	-----	20	23	27	30	33	37	40	43	47	50	53	57	60
	290	-----	17	21	24	28	31	34	38	41	45	48	52	55	59	62
	300	-----	18	21	25	29	32	36	39	43	46	50	53	57	61	64
	320	-----	19	23	27	30	34	38	42	46	49	53	57	61	65	68
	340	-----	20	24	28	32	36	40	44	48	52	57	61	65	69	73
	360	17	21	26	30	34	38	43	47	51	56	60	64	68	73	77
	400	19	24	29	33	38	43	48	52	57	62	67	71	76	81	86
	500	24	30	36	42	48	53	59	65	71	77	83	89	95	101	107
	600	29	36	43	50	57	64	71	78	86	93	100	107	114	121	128
	700	33	42	50	58	67	75	83	91	100	108	116	125	133	141	150
	800	38	48	57	67	76	86	95	105	114	124	133	143	152	162	171
	900	43	53	64	75	86	96	107	118	128	139	150	160	171	182	192
1000	48	59	71	83	95	107	119	131	143	154	166	178	190	202	214	
1250	59	74	89	104	119	134	148	163	178	193	208	223	238	252	267	
1500	71	89	107	125	143	160	178	196	214	232	249	267	285	303	321	
1750	83	104	125	145	166	187	208	229	249	270	291	312	333	353	374	
2000	95	119	143	166	190	214	238	261	285	309	333	356	380	-----	-----	
2500	119	148	178	208	238	267	297	327	356	386	-----	-----	-----	-----	-----	
3000	143	178	214	249	285	321	356	392	-----	-----	-----	-----	-----	-----	-----	

1.30
HIGH GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA															
Material Density KG/CU DM 1.35		Based on use with Medium (Std) Jockey Wheel															
		S P R E A D				W I D T H				I N				M E T R E S			
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	
HIGH GEAR	R A T E	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	18	19	21	
		110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20	21	23
		120	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	23	25
		130	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	25	27
		140	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	26	27	29
		150	-----	-----	-----	-----	-----	-----	17	19	21	22	24	26	27	29	31
		160	-----	-----	-----	-----	-----	-----	18	20	22	24	26	27	29	31	33
		170	-----	-----	-----	-----	-----	17	19	21	23	25	27	29	31	33	35
		180	-----	-----	-----	-----	-----	19	21	23	25	27	29	31	33	35	37
		190	-----	-----	-----	-----	17	20	22	24	26	28	30	33	35	37	39
K G	P E R	200	-----	-----	-----	-----	18	21	23	25	27	30	32	34	37	41	
		210	-----	-----	-----	-----	19	22	24	26	29	31	34	36	38	41	43
		220	-----	-----	-----	18	20	23	25	28	30	33	35	38	40	43	45
		230	-----	-----	-----	18	21	24	26	29	32	34	37	39	42	45	47
		240	-----	-----	-----	19	22	25	27	30	33	36	38	41	44	47	49
		250	-----	-----	17	20	23	26	29	31	34	37	40	43	46	49	51
		260	-----	-----	18	21	24	27	30	33	36	39	42	45	48	51	54
		270	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
		280	-----	-----	19	22	26	29	32	35	38	42	45	48	51	54	58
		290	-----	-----	20	23	27	30	33	36	40	43	46	50	53	56	60
H A	P E R	300	-----	17	21	24	27	31	34	38	41	45	48	51	55	58	62
		320	-----	18	22	26	29	33	37	40	44	48	51	55	59	62	66
		340	-----	19	23	27	31	35	39	43	47	51	54	58	62	66	70
		360	-----	21	25	29	33	37	41	45	49	54	58	62	66	70	74
		400	18	23	27	32	37	41	46	50	55	59	64	69	73	78	82
		500	23	29	34	40	46	51	57	63	69	74	80	86	91	97	103
		600	27	34	41	48	55	62	69	75	82	89	96	103	110	117	124
		700	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144
		800	37	46	55	64	73	82	91	101	110	119	128	137	146	156	165
		900	41	51	62	72	82	93	103	113	124	134	144	154	165	175	185
H A	P E R	1000	46	57	69	80	91	103	114	126	137	149	160	172	183	194	206
		1250	57	71	86	100	114	129	143	157	172	186	200	214	229	243	257
		1500	69	86	103	120	137	154	172	189	206	223	240	257	274	292	309
		1750	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360
		2000	91	114	137	160	183	206	229	252	274	297	320	343	366	389	-----
		2500	114	143	172	200	229	257	286	314	343	372	400	-----	-----	-----	-----
		3000	137	172	206	240	274	309	343	377	-----	-----	-----	-----	-----	-----	

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA														
Material Density KG/CU DM 1.40		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R A T E	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20
	110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22
	120	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	19	20	21	22	24
	130	-----	-----	-----	-----	-----	-----	-----	-----	17	19	20	22	23	24	26
	140	-----	-----	-----	-----	-----	-----	-----	-----	19	20	22	23	25	26	28
	150	-----	-----	-----	-----	-----	-----	-----	18	20	22	23	25	26	28	30
	160	-----	-----	-----	-----	-----	-----	18	19	21	23	25	26	28	30	32
	170	-----	-----	-----	-----	-----	-----	19	21	22	24	26	28	30	32	34
	180	-----	-----	-----	-----	-----	18	20	22	24	26	28	30	32	34	36
	190	-----	-----	-----	-----	-----	19	21	23	25	27	29	31	34	36	38
	200	-----	-----	-----	-----	18	20	22	24	26	29	31	33	35	37	40
	210	-----	-----	-----	-----	19	21	23	25	28	30	32	35	37	39	42
	220	-----	-----	-----	-----	19	22	24	27	29	32	34	36	39	41	44
	230	-----	-----	-----	18	20	23	25	28	30	33	36	38	41	43	46
	240	-----	-----	-----	19	21	24	26	29	32	34	37	40	42	45	48
	250	-----	-----	-----	19	22	25	28	30	33	36	39	41	44	47	50
	260	-----	-----	17	20	23	26	29	32	34	37	40	43	46	49	52
	270	-----	-----	18	21	24	27	30	33	36	39	42	45	48	51	54
	280	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56
	290	-----	-----	19	22	26	29	32	35	38	42	45	48	51	54	58
	300	-----	-----	20	23	26	30	33	36	40	43	46	50	53	56	60
	320	-----	18	21	25	28	32	35	39	42	46	49	53	56	60	64
	340	-----	19	22	26	30	34	37	41	45	49	52	56	60	64	67
	360	-----	20	24	28	32	36	40	44	48	52	56	60	64	67	71
	400	18	22	26	31	35	40	44	49	53	57	62	66	71	75	79
	500	22	28	33	39	44	50	55	61	66	72	77	83	88	94	99
	600	26	33	40	46	53	60	66	73	79	86	93	99	106	112	119
	700	31	39	46	54	62	69	77	85	93	100	108	116	124	131	139
	800	35	44	53	62	71	79	88	97	106	115	124	132	141	150	159
	900	40	50	60	69	79	89	99	109	119	129	139	149	159	169	179
1000	44	55	66	77	88	99	110	121	132	143	154	165	176	187	198	
1250	55	69	83	96	110	124	138	152	165	179	193	207	221	234	248	
1500	66	83	99	116	132	149	165	182	198	215	232	248	265	281	298	
1750	77	96	116	135	154	174	193	212	232	251	270	289	309	328	347	
2000	88	110	132	154	176	198	221	243	265	287	309	331	353	375	397	
2500	110	138	165	193	221	248	276	303	331	358	386	-----	-----	-----	-----	
3000	132	165	198	232	265	298	331	364	397	-----	-----	-----	-----	-----	-----	

1.40
HIGH GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA																
Material Density KG/CU DM 1.45		Based on use with Medium (Std) Jockey Wheel																
		S P R E A D W I D T H I N M E T R E S																
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36		
HIGH GEAR	R A T E	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	18	19	
		110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20	21
		120	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20	22	23
		130	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	25	25
		140	-----	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	25	27	27
		150	-----	-----	-----	-----	-----	-----	-----	18	19	21	22	24	26	27	29	29
		160	-----	-----	-----	-----	-----	-----	17	19	20	22	24	26	27	29	31	31
		170	-----	-----	-----	-----	-----	-----	18	20	22	24	25	27	29	31	33	33
		180	-----	-----	-----	-----	-----	17	19	21	23	25	27	29	31	33	34	34
		190	-----	-----	-----	-----	-----	18	20	22	24	26	28	30	32	34	36	36
	200	-----	-----	-----	-----	17	19	21	23	26	28	30	32	34	36	38	38	
	210	-----	-----	-----	-----	18	20	22	25	27	29	31	34	36	38	40	40	
	220	-----	-----	-----	-----	19	21	23	26	28	30	33	35	37	40	42	42	
	230	-----	-----	-----	17	20	22	24	27	29	32	34	37	39	42	44	44	
	240	-----	-----	-----	18	20	23	26	28	31	33	36	38	41	43	46	46	
	250	-----	-----	-----	19	21	24	27	29	32	35	37	40	43	45	48	48	
	260	-----	-----	-----	19	22	25	28	30	33	36	39	42	44	47	50	50	
	270	-----	-----	17	20	23	26	29	32	34	37	40	43	46	49	52	52	
	280	-----	-----	18	21	24	27	30	33	36	39	42	45	48	51	54	54	
	290	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56	56	
300	-----	-----	19	22	26	29	32	35	38	42	45	48	51	54	57	57		
P E R	320	-----	17	20	24	27	31	34	37	41	44	48	51	55	58	61		
	340	-----	18	22	25	29	33	36	40	43	47	51	54	58	62	65		
	360	-----	19	23	27	31	34	38	42	46	50	54	57	61	65	69		
	400	17	21	26	30	34	38	43	47	51	55	60	64	68	72	77		
	500	21	27	32	37	43	48	53	59	64	69	75	80	85	90	96		
	600	26	32	38	45	51	57	64	70	77	83	89	96	102	109	115		
	700	30	37	45	52	60	67	75	82	89	97	104	112	119	127	134		
	800	34	43	51	60	68	77	85	94	102	111	119	128	136	145	153		
	900	38	48	57	67	77	86	96	105	115	125	134	144	153	163	172		
	1000	43	53	64	75	85	96	106	117	128	138	149	160	170	181	192		
H A	1250	53	67	80	93	106	120	133	146	160	173	186	200	213	226	240		
	1500	64	80	96	112	128	144	160	176	192	208	224	240	256	271	287		
	1750	75	93	112	130	149	168	186	205	224	242	261	279	298	317	335		
	2000	85	106	128	149	170	192	213	234	256	277	298	319	341	362	383		
	2500	106	133	160	186	213	240	266	293	319	346	373	399	-----	-----	-----		
	3000	128	160	192	224	256	287	319	351	383	-----	-----	-----	-----	-----	-----		
	millimetres of door opening																	

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

For Use with **TRANSPREAD** Density Meter
Accuracy of final settings is operators responsibility.

Gear Ratio...High		RATE CHART KG PER HA														
Material Density KG/CU DM		Based on use with Medium (Std) Jockey Wheel														
		S P R E A D W I D T H I N M E T R E S														
		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
R	100	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	19
	110	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	18	19	20
	120	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	19	20	21	22
	130	-----	-----	-----	-----	-----	-----	-----	-----	-----	17	19	20	21	23	24
	140	-----	-----	-----	-----	-----	-----	-----	-----	17	19	20	22	23	24	26
	150	-----	-----	-----	-----	-----	-----	-----	-----	19	20	22	23	25	26	28
	160	-----	-----	-----	-----	-----	-----	-----	18	20	21	23	25	26	28	30
	170	-----	-----	-----	-----	-----	-----	17	19	21	23	24	26	28	30	31
	180	-----	-----	-----	-----	-----	-----	19	20	22	24	26	28	30	31	33
	190	-----	-----	-----	-----	-----	18	20	22	23	25	27	29	31	33	35
200	-----	-----	-----	-----	-----	19	21	23	25	27	29	31	33	35	37	
210	-----	-----	-----	-----	17	19	22	24	26	28	30	32	35	37	39	
220	-----	-----	-----	-----	18	20	23	25	27	29	32	34	36	38	41	
230	-----	-----	-----	-----	19	21	24	26	28	31	33	36	38	40	43	
240	-----	-----	-----	17	20	22	25	27	30	32	35	37	40	42	44	
250	-----	-----	-----	18	21	23	26	28	31	33	36	39	41	44	46	
260	-----	-----	-----	19	21	24	27	29	32	35	37	40	43	45	48	
270	-----	-----	-----	19	22	25	28	31	33	36	39	42	44	47	50	
280	-----	-----	17	20	23	26	29	32	35	37	40	43	46	49	52	
290	-----	-----	18	21	24	27	30	33	36	39	42	45	48	51	54	
300	-----	-----	19	22	25	28	31	34	37	40	43	46	49	52	56	
320	-----	-----	20	23	26	30	33	36	40	43	46	49	53	56	59	
340	-----	17	21	24	28	31	35	38	42	45	49	52	56	59	63	
360	-----	19	22	26	30	33	37	41	44	48	52	56	59	63	67	
400	-----	21	25	29	33	37	41	45	49	54	58	62	66	70	74	
500	21	26	31	36	41	46	51	57	62	67	72	77	82	87	93	
600	25	31	37	43	49	56	62	68	74	80	86	93	99	105	111	
700	29	36	43	50	58	65	72	79	86	94	101	108	115	122	130	
800	33	41	49	58	66	74	82	91	99	107	115	124	132	140	148	
900	37	46	56	65	74	83	93	102	111	120	130	139	148	157	167	
1000	41	51	62	72	82	93	103	113	124	134	144	154	165	175	185	
1250	51	64	77	90	103	116	129	142	154	167	180	193	206	219	232	
1500	62	77	93	108	124	139	154	170	185	201	216	232	247	262	278	
1750	72	90	108	126	144	162	180	198	216	234	252	270	288	306	324	
2000	82	103	124	144	165	185	206	226	247	268	288	309	329	350	371	
2500	103	129	154	180	206	232	257	283	309	334	360	386	-----	-----	-----	
3000	124	154	185	216	247	278	309	340	371	-----	-----	-----	-----	-----	-----	

1.50
HIGH GEAR

millimetres of door opening

Small jockey wheel multiply door setting by 0.74 for correct setting
Large jockey wheel multiply door setting by 1.33 for correct setting
Deep Low multiply door setting by 1.23 for correct setting

AMENDMENTS

Amendment Number	
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Please complete this form, remove and return to dealer

Dealer Copy

MODEL
SERIAL NUMBER
OWNER
ADDRESS
TELEPHONE NUMBER
FAX NUMBER
E-MAIL
DELIVERY DATE
DEALER NAME
DEALER TELEPHONE NUMBER
DECLARATION	I declare that I have read this manual and understand the Warnings and Cautions Ow ner Signature.....Date.....
	Pre delivery check completed(initial) Dealer Signature.....Date.....

Please complete this form, fold along the dotted lines on the reverse of this page,
tape the edge, affix a stamp and post

Robertson's Copy

MODEL	
SERIAL NUMBER	
OWNER	
ADDRESS	
TELEPHONE NUMBER	
FAX NUMBER	
E-MAIL	
DELIVERY DATE	
DEALER NAME	
DEALER TELEPHONE NUMBER	
DECLARATION	I declare that I have read this manual and understand the Warnings and Cautions Owner Signature.....Date.....
	Pre delivery check completed(initial) Dealer Signature.....Date.....

FOLD HERE

POST TO....

AFFIX STAMP
HERE

**ROBERTSON MANUFACTURING LTD
P O BOX 6
HINDS
MID CANTERBURY
NEW ZEALAND**

FOLD HERE
