

Bunning[®]
AGRICULTURAL ENGINEERS

Lowlander[®] Manure Spreaders

A comprehensive range of spreaders for the application of a wide range of materials.



Lowlander Mk4 Range
Lowlander HD150 Mk2
Lowlander Widebody



Lowlander[®] Mk4 Manure Spreaders

Originally developed circa 1990, the Lowlander's well proven abilities and features have secured it's position at the forefront of today's market. It's popularity has not only been realised within the UK as increasing demand from overseas's markets has led to an established global presence.

The Lowlander Mark 4 Range, so called due to it's gradual and incremental evolution, incorporates state of the art technologies as part of a sound overall design to guarantee the user satisfaction in ever competitive environments.

Key qualities of this product are it's simplicity, durability and ultimate reliability.

It is equally suited to both farmers and contractors alike. Comprising six different models, the smallest has a carrying capacity of 8.2 cubic metres through to the largest which holds 19.7 cubic metres. The fully welded body has an internal width of 1500mm throughout the range.

As a standard machine, the Lowlander Mark 4 is perfectly equipped for general every day usage. It's versatile nature ensures that all manures can be handled very effectively. A catalogue of optional equipment compliments the basic unit allowing it's use to be tailored to more specific applications, ideal for any contractor. Whatever the associated requirement, the Lowlander Mark 4 can deliver.



A robust, simple and reliable floor tensioning system ensures floor chain tension can be easily adjusted in order to be kept to its optimum setting. Floor chains are visible from the exterior of the machine making it easy to judge when tensioning is required. Floor shafts are 50mm diameter (60mm on the 150 model), both high tensile.



The 500 series floor drive gearbox is fitted to all models with the exception of the 150. It is hydraulically driven to ensure an even feed of material to the spreading mechanism at all times. With a reverse feature, any foreign object too large to pass through the beaters can be easily removed. An adjustable crossline relief valve also delivers additional protection.



Full width floor slats clear the whole floor eliminating the possibility of bridging - a problem sometimes encountered with multi slat floor systems.

The socket fit design facilitates maintenance, which can be carried out in the field.

It also allows the chain to pull straight, should a slat become bent.



Twin 690mm diameter dynamically balanced vertical augers have flights laser cut from high tensile steel to improve strength and service life.

Reversible points manufactured using EN8 steel are bolted and supported along the back edge.



The robust one piece gearbox houses internal gear sets unique to Bunnings in order to ensure that auger speeds are optimised to achieve excellent spread patterns. They are large in diameter with 54mm output shafts manufactured from heat treated steel. The precision machined castings ensure perfect alignment of all the driveline components.



Grade 60 16mm heavy duty chains are drawn by high tensile sprockets. Sprockets are fitted to the front floor shaft as well as the driven rear shaft, ensuring perfect alignment and timing of the chains, which, in turn makes for a more reliable floor drive. Each chain has a 32 tonne breaking load.



50mm high tensile floor drive shafts rotate through polyester reinforced composite bushes that contain a solid graphite filler, chosen for their high load applications in a variety of environments they are greasable, further extending their life.

Bush highlighted in red.



Especially developed to reduce shock loads to the auger drive gearbox, the rubber cushion arrangement located between the output shaft of the auger gearbox and the base of the auger contributes to the reliability and longevity of the machine.

Rubber cushion highlighted in green.

Lowlander[®] Mk4 Manure Spreaders

Standard Specification:

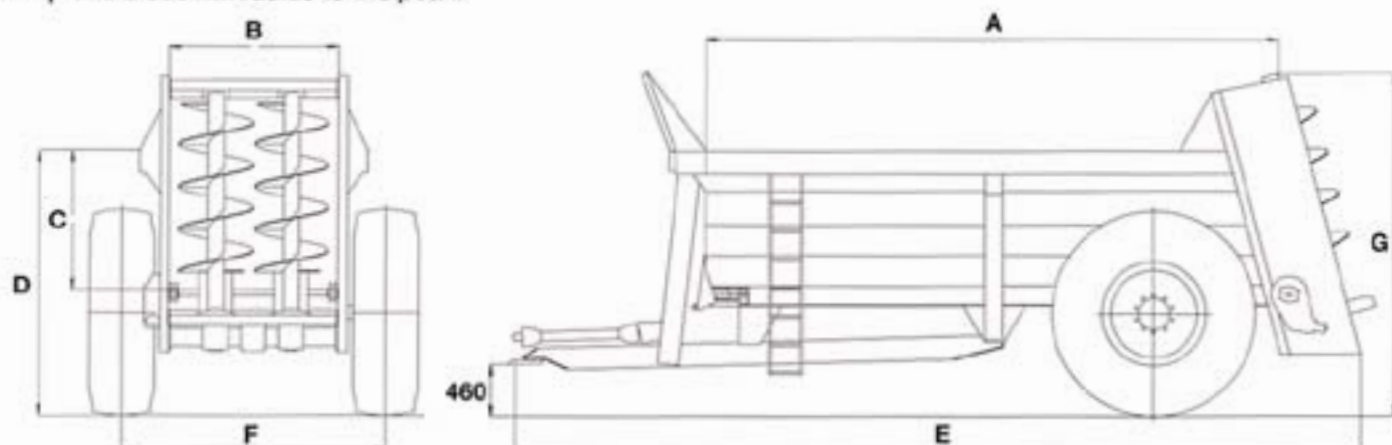
- Heavy duty fully welded construction
- Handles all manure types and other materials
- Dynamically balanced twin vertical augers
- Augers protected by rubber cushioned drive
- Auger gearbox protection via shearbolt
- Reversible cutters with re-inforcing plate
- One piece auger gearbox arrangement
- High tensile front and rear floor shaft
- Long lasting composite floor shaft bearings
- Floor protected by cross line relief valve
- High torque hydraulic motor
- Quick fit socket on full width floor slats
- Calibrated grade 80 high tensile floor chains
- Variable floor speed control
- 1000 rpm PTO speed
- Single pole drawbar for tighter turning circle
- Choice of screwjack or pick up support
- Hydraulic brakes & handbrake
- Full LED road lighting
- Large diameter wheels (options available)
- Access ladder
- Choice of standard colour 2 pack paint finish

Specifications

	75 - Mk4	90 - Mk4	105c - Mk4	105 - Mk4	120 - 12 Tonne	150 - 15 Tonne
Axle	single	single	single	single	single	single
Axle beam size	90mm	100mm	110mm	110mm	140mm	150mm
Carrying capacity	8.5 tonnes*	11.6 tonnes	12.6 tonnes	12.6 tonnes	14 tonnes	16.6 tonnes
Cubic meters level	6.8m	8.6m	9.6m	10.4m	11.8m	12.6m
Cubic meters heaped	9.1m	11.4m	12.9m	13.2m	14.6m	15.9m
Heaped extended capacity	12.9m	15.7m	N/A	17.5m	19.1m	20.9m
Body size (nt. mm)	4200 x 1500 x 1010	5200 x 1500 x 1000	4200 x 1500 x 1270	5200 x 1500 x 1225	5500 x 1500 x 1500	6000 x 1500 x 1300
Floor drive	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Floor chain size	16mm	16mm	16mm	16mm	16mm	16mm
Brake size mm	335 x 80	400 x 80	400 x 80	400 x 80	406 x 120	406 x 140
Tyre size	16.9 x 34 PR14	18.4 x 34 PR14	580/70 R38	580/70 R38	580/70 R38	580/70 R38
Spread mechanism	Twin vertical augers	Twin vertical augers	Twin vertical augers	Twin vertical augers	Twin vertical augers	Twin vertical augers
Spread width	up to 16m	up to 16m	up to 16m	up to 16m	up to 16m	up to 16m
PTO speed	1000 RPM	1000 RPM	1000 RPM	1000 RPM	1000 RPM	1000 RPM
Floor plate	5mm	5mm	5mm	5mm	5mm	5mm
Side plate	4mm	4mm	4mm	4mm	4mm	4mm
Unladen weight	3920 kgs	4150 kgs	4800 kgs	4800 kgs	5100 kgs	5450 kgs

* 10.5 Tonnes when fitted with 18.4 x 34 (or larger tyres)

All cubic capacity figures are given without slurry door fitted. Heaped capacity is given assuming a 30° angle to the heap and a 300mm radius to the peak.



Model	A	B	C	D	E	F	G
75-Mk4	4200	1500	990	1970	6500	2630	2640
90-Mk4	5200	1500	990	2010	7560	2670	2680
105-Mk4	5200	1500	1230	2350	7560	2920	3060
105c-Mk4	4200	1500	1270	2383	6515	2920	3060
120-Mk4	5500	1500	1290	2410	7950	2920	2340
150-Mk4	6000	1500	1290	2420	8350	2920	3080



LOWLANDER 90 with high augers and gullotine slurry door



LOWLANDER 76 with gullotine slurry door



LOWLANDER 105 standard machine



LOWLANDER 105 COMPACT with gullotine slurry door



LOWLANDER 150 with detachable spinner deck, weigh cells, bolt on extension sides, gullotine slurry door and sprung drawbar



LOWLANDER 150 with 2 horizontal beaters and spinning discs, weigh cells, bolt in flared extension sides, gullotine slurry door and sprung drawbar



LOWLANDER 120 with widebody augers



LOWLANDER 120 with gullotine slurry door



LOWLANDER 106 with 2 horizontal beaters and spinning discs, spreading poultry manure



LOWLANDER 106 with built in flared extension sides and dual air & hydraulic braking system

Lowlander[®] Heavy Duty 150 Mk2 Manure Spreader

A truly outstanding workhorse, the Lowlander Heavy Duty 150 Mark 2 model is unmatched for strength, reliability and performance. With an Internal body width of 1600mm and fitted with 580/70 R38 tyres, the machine is under 3 metres wide on the road. Fitted with 965mm diameter augers from the Widebody Range, loads are dispersed quickly, accurately and finely shred. With a choice of body build options, the 150HD can be tailored to suit customers requirements.

Cubic capacities range from 17.1 to 22.8 cubic metres. An 18 tonne axle and high load tyres complete with a fully welded construction ensures confidence, reliability and high residual values.



A robust, simple and reliable floor tensioning system ensures floor chain tension can be easily adjusted in order to be kept to its optimum setting. Floor chains are visible from the exterior of the machine making it easy to judge when tensioning is required.



The 800 series floor drive gearbox is fitted to the Lowlander 150 Heavy Duty model. It is hydraulically driven to ensure an even feed of material to the spreading mechanism at all times. With a reverse feature, any foreign object too large to pass through the beaters can be easily removed. An adjustable crossline relief valve also delivers additional protection.



Full width channel floor slats clear the whole floor ensuring materials have no chance of bridging in the middle, a problem sometimes encountered with multi slat floor systems.

The socket fit design enables easy fitting of the slat, it also allows the chain to continue to pull straight should a slat become bent.



Twin 905mm diameter dynamically balanced vertical augers have flights laser cut from high tensile steel to improve strength and service life.

20mm thick reversible points manufactured using EN8 steel are bolted and supported along the back edge.



The robust one piece gearbox houses internal gear sets unique to Bunnings in order to ensure that auger speeds are optimised to achieve excellent spread patterns. They are large in diameter with 54mm output shafts manufactured from heat treated steel. The precision machined castings ensure perfect alignment of all the driveline components.

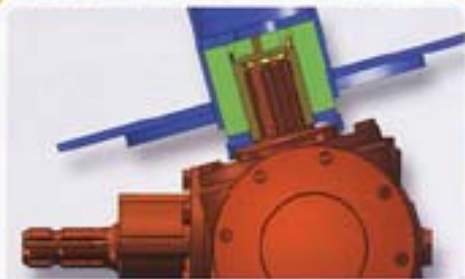


Grade 80 20mm heavy duty chains are drawn by high tensile sprockets. Sprockets are fitted to the front floor shaft as well as the driven rear shaft, ensuring perfect alignment and timing of the chains, which, in turn makes for a more reliable floor drive. Each chain has a 50 tonne breaking load.



60mm high tensile floor drive shafts rotate through polyester reinforced composite bushes that contain a solid graphite filler, chosen for their high load applications in a variety of environments they are greasable, further extending their life.

Bush highlighted in red.



Especially developed to reduce shock loads to the auger drive gearbox, the rubber cushion arrangement located between the output shaft of the auger gearbox and the base of the auger contributes to the reliability and longevity of the machine.

Rubber cushion highlighted in green.

Lowlander® Heavy Duty 150 Mk2 Manure Spreaders



LOWLANDER HD 150 with gliotline slurry door and sprung drawbar.



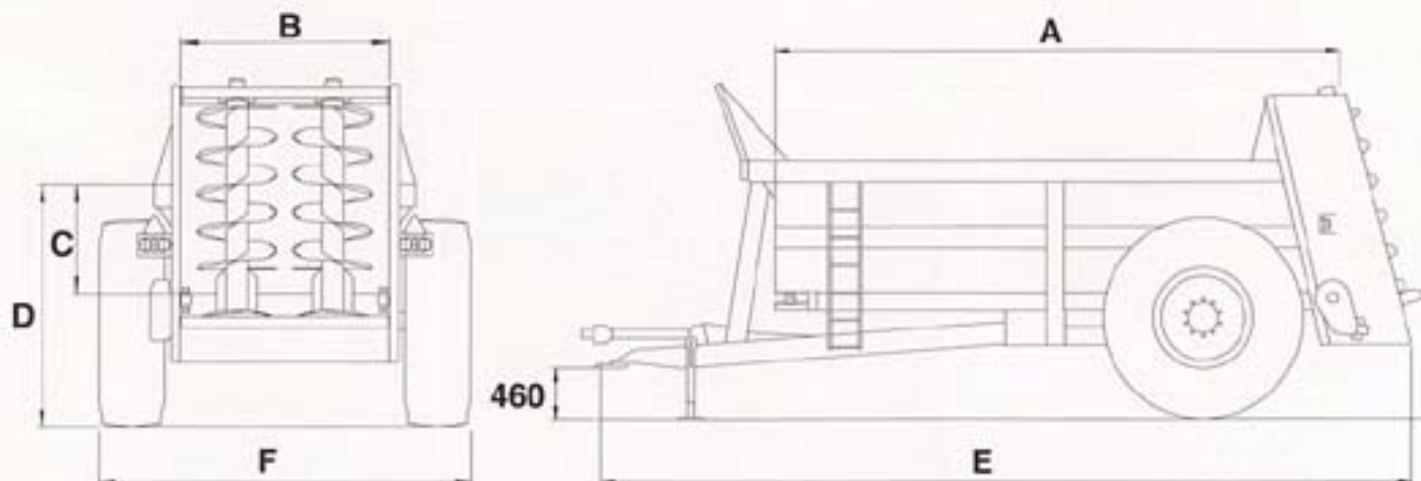
LOWLANDER HD 150 with gliotline slurry door spreading bio-solids.

Standard Specification:

- Heavy duty fully welded construction
- Handles all manure types and other materials
- Widebody (965mm dia.) dynamically balanced twin vertical augers
- 1600mm internal body width
- Augers protected by rubber cushioned drive
- Auger gearbox protection via shearbolt
- Thicker high tensile 10mm 50B auger flights
- Reversible cutters with re-inforcing plate
- One piece auger gearbox arrangement
- High tensile front and rear floor shafts
- Long lasting composit floor shaft bearings
- Floor protected by cross line relief valve
- High torque hydraulic motor
- Quick fit socket on full width floor slats
- Calibrated 20mm grade 80 high tensile floor chains
- Variable floor speed control
- 1000 rpm PTO speed
- Single pole drawbar for tighter turning circle
- Choice of screwjack or pick up support
- Hydraulic brakes & handbrake
- Full LED road lighting
- 580/70 R38 High load Alliance wheel units (options available)
- Access ladder
- Choice of standard colour 2 pack paint finish

Specifications

	Heavy Duty Mk2
Axle	single
Axle beam size	150 square
Carrying capacity	15 tonnes
Cubic meters level	13.6m
Cubic meters heaped	17.1m
Heaped extended capacity	22.8m
Body size (int. mm)	6000 x 1600 x 1250
Floor drive	Hydraulic
Floor chain size	20mm
Brake size mm	400mm x 140mm
Tyre size	580/70 R38
Spread mechanism	Twin vertical augers
Spread width	up to 20m
PTO speed	1000 RPM
Floor plate	5mm
Side plate	4mm
Unladen weight	6220 kgs



Model	A	B	C	D	E	F	G
HD 150	6000	1830	1250	2450	8560	3020	3080



LOWLANDER HD 150 sludge cake build with flared body, guillotine slurry door, 710/70 R38 tyres and load cells, composting



LOWLANDER HD 150 with detachable spinner deck, guillotine slurry door and sprung drawbar



LOWLANDER HD 150 with guillotine slurry door



LOWLANDER HD 150 sludge cake build with guillotine slurry door



LOWLANDER HD 150 sludge cake build with flared body, guillotine slurry door and 710/70 R38 tyres, spreading bio solids

Lowlander[®] Widebody[®] Manure Spreaders

With capacity's ranging from 14m³ to 35m³ the Lowlander Widebody range is most suited to large scale farmers & contractors. Available in single, tandem, tri axle or truck mounted builds the Widebody can carry up to 35 tonnes. With twin 965mm diameter shredding augers as standard all types of manure and waste can be spread accurately and evenly up to 20 metres wide.

The fully welded construction ensures long life and unmatched residual values. With an 1830mm internal body width, the proven dual chain full width floor system is used throughout the range, further increasing reliability, performance and strength.

As a factory build option the Widebody range can be specified with 2 or 3 horizontal beaters and twin spinning discs or standard augers with a detachable spinner deck.



A robust, simple and reliable floor tensioning system ensures floor chain tension can be easily adjusted in order to be kept to its optimum setting.

Floor chains are visible from the exterior of the machine making it easy to judge when tensioning is required.



The 800 series floor drive gearbox is fitted to all models within the range. It is hydraulically driven to ensure an even feed of material to the spreading mechanism at all times. With a reverse feature, any foreign object too large to pass through the beaters can be easily removed. An adjustable crossline relief valve also delivers additional protection. The 350 model is fitted with 2 floor gearboxes as standard.



Full width channel floor slats clear the whole floor ensuring materials have no chance of bridging in the middle, a problem sometimes encountered with multi slat floor systems. The socket fit design enables easy fitting of the slat, its also allows the chain to continue to pull straight should a slat become bent. Heavy duty 80 x 30 x 4 mm box slats are fitted to Lowlander Widebody 350 models.



Twin 965mm diameter dynamically balanced vertical augers have flights laser cut from high tensile steel to improve strength and service life.

20mm thick reversible points manufactured using EN8 steel are bolted and supported along the back edge.



The robust one piece gearbox houses internal gear sets unique to Bunnings in order to ensure that auger speeds are optimised to achieve excellent spread patterns. They are large in diameter with 54mm output shafts manufactured from heat treated steel. The precision machined castings ensure perfect alignment of all the driveline components.



Grade 80 20mm heavy duty chains are drawn by high tensile sprockets. Sprockets are fitted to the front floor shaft as well as the driven rear shaft, ensuring perfect alignment and timing of the chains, which, in turn makes for a more reliable floor drive. Each chain has a 50 tonne breaking load.



60mm high tensile floor drive shafts rotate through polyester reinforced composite bushes that contain a solid graphite filler, chosen for their high load applications in a variety of environments they are greasable, further extending their life.

Bush highlighted in red.



Especially developed to reduce shock loads to the auger drive gearbox, the rubber cushion arrangement located between the output shaft of the auger gearbox and the base of the auger contributes to the reliability and longevity of the machine.

Rubber cushion highlighted in green.

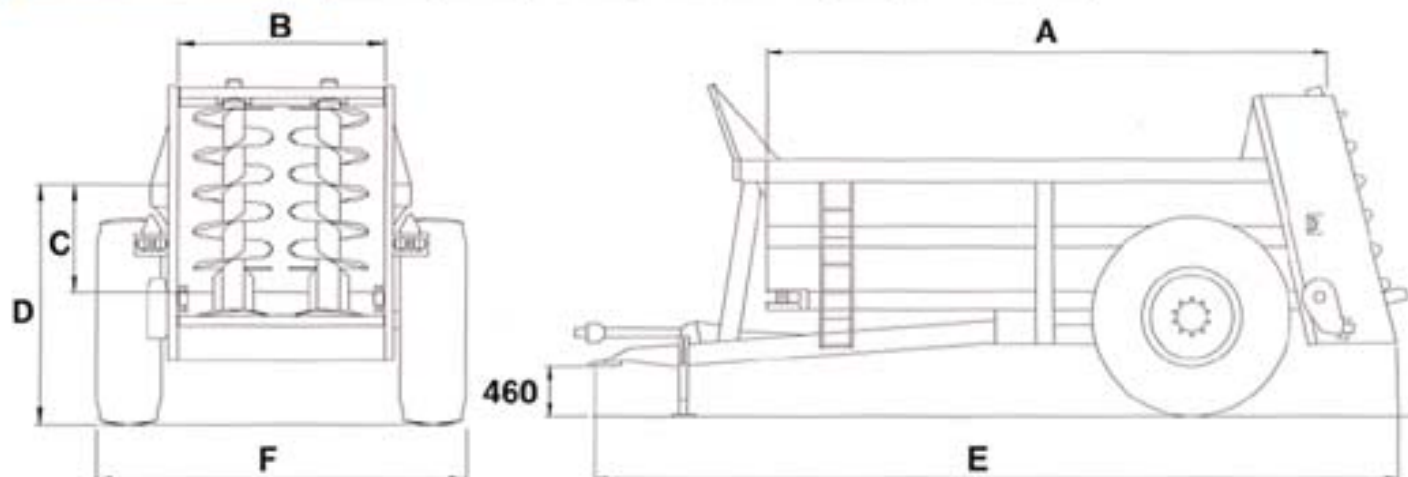
Lowlander® Widebody® Manure Spreaders

Standard Specification:

- Heavy duty fully welded construction
- Handles all manure types and other materials
- Widebody (965mm dia.) dynamically balanced twin vertical augers
- 1830mm Internal body width
- Augers protected by rubber cushioned drive
- Auger gearbox protection via shearbolt + over run clutch
- Thicker high tensile 10mm 50B auger flights
- Reversible cutters with re-inforcing plate 20mm thick
- One piece auger gearbox arrangement
- High tensile 60mm front and rear floor shafts
- Long lasting composit floor shaft bearings
- Floor protected by cross line relief valve
- High torque hydraulic motor
- Quick fit socket on full width floor slats
- Calibrated 20mm grade 80 high tensile floor chains
- Variable floor speed control
- 1000 rpm PTO speed
- Single pole drawbar for tighter turning circle
- Choice of screwjack or pick up support
- Hydraulic brakes & handbrake
- Full LED road lighting
- Access ladder
- Choice of standard colour 2 pack paint finish

Specifications

	140 Truck Mnt	180	230	350
Axle	none	single	single	single
Axle beam size	none	150 mm	110 mm	140 mm
Carrying capacity	14 tonnes	18 tonnes	23 tonnes	35 tonnes
Cubic meters level	8.5 m	10 m	10 m	16.5 m
Cubic meters heaped	13 m	14 m	14 m	22 m
Heaped extended capacity	none	26 m	26 m	35 m
Body size (int. mm)	5000 x 1830 x 950	6000 x 1830 x 950	6000 x 1830 x 950	8000 x 1830 x 1160
Floor drive	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Floor speed control	Hydraulic variable speed c/w reverse			
Floor chain size	20 mm	20 mm	20 mm	20 mm
Brake size mm	N/A	406 x 140	406 x 80	420 x 200
Tyre size	N/A	580/70 R38	600/55 R22.5	600/55 R22.5
Spread mechanism	Twin vertical augers	Twin vertical augers	Twin vertical augers	Twin vertical augers
Spread width	up to 20 m	up to 20 m	up to 20 m	up to 20 m
PTO speed	1000 RPM	1000 RPM	1000 RPM	1000 RPM
Floor plate	5mm	5mm	5mm	5mm
Side plate	4mm	4mm	4mm	4mm
Unladen weight	4000 kgs	7020 kgs	7920 kgs	10000 kgs



Model	A	B	C	D	E	F	G
140 Truck Mnt	5000	1830	960	N/A	6400	N/A	
180	6000	1830	960	2150	8560	3270	3080
230	6000	1830	960	2150	8560	3350*	3080
350	8000	1830	1160	2520	10830	3500*	3220

* 2000mm with wheels under body.



160 WIDEBODY with 710/70 R38 tyres, 260mm bolt on extension sides and sprung drawbar



140 WIDEBODY TRUCK MOUNT with guillotine slurry door



200 WIDEBODY with 530mm bolt on extension sides, guillotine slurry door and sprung drawbar



300 WIDEBODY with 1 steering axle and guillotine slurry door



160 WIDEBODY with 710/70 R38 tyres, 260mm bolt on extension sides and sprung drawbar



160 WIDEBODY with 2 horizontal beaters and spinning discs, load cells and 710/70 R38 tyres



230 WIDEBODY with 530mm bolt on extension sides and guillotine slurry door



WIDEBODY with guillotine slurry door



230 WIDEBODY sludge cake build with built in flared extension sides and guillotine slurry door



350 WIDEBODY with 2 horizontal beaters and spinning discs, 530mm bolt on extension sides, 2 steering axles, guillotine slurry door and sprung drawbar

Optional Equipment



Widebody Augers

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150 STD
- Widebody STD



2 or 3 Horizontal Beaters & Spinning Discs

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Detachable Spinner Deck

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



High Augers

- Mk4 75 -90
- Mk4 105 - 150 STD
- Heavy Duty 150 STD
- Widebody STD



Sprung Drawbar

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Steel PTO Guard

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Load Cells

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Electric Remote Floor Control

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Drop Down Covers

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Hydraulic Folding Lights

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Swivel Pick-up Eye Attachment

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Bolt on Extension Sides

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Tool Box

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Guillotine Slurry Door

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Built-in Flared Extension Sides

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Flared Body to Standard Height*

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Sludge Cake Build

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody



Rear Clevis Drawbar Assembly

- Mk4 75 -90
- Mk4 105 - 150
- Heavy Duty 150
- Widebody

Options continued...

	Mk4 75 -90	Mk4 105 - 150	Heavy Duty 150	Widebody
Extra height to sides per inch	●	●	●	●
Rear manual doors for compost	●	●	●	●
Large diameter bottom blades	○	○	○	●
Sludge Cake Kit	●	●	●	●
Lift off Augers	●	●	●	●
Silage Sides	●	●	●	●
10 Stud Axle (excluding Lowlander Mk4 75)	STD	STD	STD	STD
Wide Angle PTO	●	●	●	●
Wide Angle PTO with Torque Limiter	●	●	●	●
Steering Axle	○	○	○	230 & 350
2 Line Air Brakes	●	●	●	●
Dual Air & Hydraulic Brakes	●	●	●	●
Non Standard Colour Finish Paint	●	●	●	●

Suspension for tandem axle machines can be rocking beam, leaf sprung or hydraulic. For tri-axle machines leaf sprung or hydraulic suspension is available.

Wheel Options

	75 ONLY			
18.4x34	○	○	○	○
18.4x38	●	○	○	○
520/70 R34	●	○	○	○
580/70 R38	●	STD	○	○
580/70 R38 High Load	●	●	STD	STD ON 180
620/70 R38	●	●	●	180 ONLY
710/70 R38	●	●	●	180 ONLY
600/55 R22.5 380 Tread Pattern	○	○	○	230/350



With our continual development programme we use a state of the art 3D CAD system, which we have recently added a Stress Analysis (FEA) package to.

This enables us to highlight any potential problems, such as fatigue long before they may occur in the field, therefore assisting us in the design of the next generation of spreaders. This, in conjunction with customer feedback keeps Bunnings at the forefront of design and development.



All machines are shotblasted with aluminium oxide prior to being painted. They are then coated with a two component primer and left to cure.

Following this procedure a two component top coat is then applied before being baked over a duration of several hours at 60°C.



Bunning®

AGRICULTURAL ENGINEERS



address Smithy House
The Green
Gressenhall
Dereham
Norfolk
NR20 4DT

telephone +44 (0) 1362 860352
facsimile +44 (0) 1362 860930
email sales@gtbunning.co.uk
website www.gtbunning.co.uk

dealer