



# Fertiliser Spreader Settings for Grasstrac Application

The One Sure Way of Providing Those Essential Trace  
Elements at Grass



copper | selenium | cobalt | iodine | zinc | sodium

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This booklet contains information on fertiliser spreaders to help guide the farmer who asks for a setting to spread Grasstrac through his particular machine.

### **Grasstrac Specification**

<b>Application Rate:</b>	20 kg/acre (44 lb/acre or 50 kg/ha).
<b>Bulk Density:</b>	1.19 kg/l
<b>Size Range:</b>	1 - 4 mm (85% 1.5 - 3.2 mm)
<b>Mean Size:</b>	2.4 mm

### **Spreading Characteristics**

Grasstrac can be compared with muriate of potash granules for application purposes.

### **General Guidelines**

The following guidelines pertain to most, but not all spreaders.

<b>PTO Speed:</b>	540 rpm
<b>Spread Width:</b>	12 metres (40 feet)
<b>Tractor Speed:</b>	11 km per hour (7 mph)

Because of the low application rate for Grasstrac, in general the lowest setting on the machine should be used.

### **Specific Guidelines**

Spreader settings are given for the most common machines used by grassland farmers. It should be stressed that these are approximate settings since the farmer should ideally calibrate his own machine according to the instruction manual. In practice this will rarely happen.

### **Spreader Calibration Services**

Mr Robert Foxall runs this company which specialises in calibrating fertiliser spreaders at approx. £160.00 per machine.

Contact address: Rookery Farm, Roman Road, Wheaton Aston, Stafford. ST19 9QF.  
Tel. (01785) 840849 mobile. (07768) 945497.

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1.	Accord	Kverneland
2.	Amazone	Amazone
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4.	Econ Fertispread/Tasker	Shelbourne Reynolds Engineering
5.	Electro-Broadcaster  (A.T.V. Mounted Spreader)	Evans and Pearce
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9.	Lely	Tulip
10.	Logic	Logic
11.	Sulky	Ruston's Engineering Co. (RECO)
12.	Teagle	TeagleMachinery
13.	Vicon	Kverneland

# Accord

**Manufacturer:** Kverneland Group (UK) Ltd  
Walkers Lane  
Lea Green  
St Helens  
Merseyside WA9 4AF

Telephone: (01744) 853200  
Fax: (01744) 853400

**Contact Name:** Graham Owen (07977) 984066

## Spreader Settings

Model	PTO (RPM)	Bout Width (Metres)	Forward Speed (Km/Hr)	Machine Setting
Discus	440	12	8	Shovel Length 210 mm Position A Setting 6
Discus	540	24	8	Shovel Length 275 mm Position C Setting 7
Turbo	540	12	8	Setting 15

Settings for the new range of Exacta EL,CL, HL and TL spreaders can be found at [www.kvernelandgroup.com/accord](http://www.kvernelandgroup.com/accord)

# Amazone

Manufacturer: Amazone Ltd  
 Blyth Road  
 Harworth  
 Doncaster  
 S. Yorks DN11 8NE

Telephone: (01302) 751200  
 Fax: (01302) 751202

Contact Name: Nigel Foster  
 Trevor Brocklesby (07715) 609409

## Spreader Settings

Model	Forward Speed (Km/Hr)	Disc	Height Above Grass (cm)	Vane	Setting
ZA-F	11	Red	Level Machine 70	66 + 82	9
ZA-U	11	Yellow	Level Machine 50	80 + 85	18
ZA-M (12M)	11	Red (10/18)	Level Machine 50	60 + 81	18
ZA-M (24M)	11	White (20/28)	Level Machine 80	60+86	20
ZA-OC		Normal		3 + 39	A 47 (9)
ZA-X	11	Green	Level Machine 80	4 short 37 long	9

\* For all models: PTO (RPM) = 540  
 Bout Width (M) = 12

Notes: Agitators may need to be removed to prevent granule breakdown.

# Bogballe/KRM

## Importer/Distributor

Keith Rennie Machinery Ltd (KRM)  
 Clay Pit Lane  
 Bar Lane Industrial Estate  
 Boroughbridge  
 North Yorkshire  
 YO51 9LS

Telephone: (01423) 324221  
 Fax: (01423) 324355

## Contact Name:

Ted Barker  
 (07831) 348786  
 Mike Britton  
 (07831) 304553

## Spreader Settings

Models	PTO (RPM)	Bout Width (Metres) Speed	Forward Setting (Km/Hr)	Machine Type	Vane Setting	Vane
Bogballe D/DZ E/EX M2/M3	540	12	10	1.2	E - 1	1 and 2
D1000	540	12	6	1.0	E - 1	
Twin			12	1.3	E - 1	
<b>KRM</b>						
Bredall Belt Type	540	12	N/A	Downshute 145 or 150		Scale 1
	540	20	N/A	160		Scale 2.5

# Econ Fertispread/Econ Tasker

Manufacturer: Shelbourne Reynolds  
Engineering Ltd  
Shepherds Grove  
Stanton  
Bury St Edmunds  
Suffolk IP31 2AR

Telephone: (01359) 250415  
Fax: (01359) 252031

Contact Name: Andrew Freeman  
Mike Scott

## Spreader Settings

Model	PTO (RPM)	Bout Width (Metres)	Forward Speed (Km/Hr)	Machine Setting
Fertispread 12-30	540	12	8	Primary/ Secondary Drive Ratio Sprocket A setting 10 B setting 30 Conveyor Pulley Top 8 Bottom 7
Fertispread 12-40	540	12	8	A = 10 B = 30 Top = 8 Bottom = 5
Mark 9	540	6.4	8	A = 15 B = 30 Top = 5 Bottom = 8 Gate 1/4 Top hole

# T.F. 80 Electro-Broadcaster (A.T.V. Mounted Spreader)

**Manufacturer:** Evans and Pearce  
Anchor Farm  
Hummer  
Sherborne  
Dorset

Telephone: (01935) 850750  
Fax: (01935) 851432

**Contact Name:** Brian White  
Robert White

## Spreader Settings

Model	Bout Width (Metres)	Forward Speed (Km/Hr)	Machine Setting
T.F. 80	12	10	9
		15	12

# Howard

**Manufacturer:** Kongskilde (UK) Ltd  
Hempstead Road  
Holt  
Norfolk  
NR25 6EE

Telephone: (01263) 713291  
Fax: (01263) 712922

**Contact Name:** Stuart Davis

## Spreader Settings

Model	PTO (RPM)	Bout Width (Metres)	Forward Speed (Km/Hr)	Machine Setting
Farmhand Single Disc	540	12	12	Rate Adjustment 2.5 Balance Setting J
Farmhand Twin Disc	540	12	14.4	Rate Adjustment 7 Width Setting N

# Kubota

**Manufacturer:**

Kubota (UK) Ltd  
Dormer Road  
Thame  
Oxfordshire  
OX9 3UN

Telephone: (01844) 214500  
Fax: (01844) 261478

**Contact Name:**

Keith Miller

## Spreader Settings

Model	Bout Width (Metres)	Forward Speed (Km/Hr)	Machine Setting
XA and XL	12	12	2

# Kuhn/Rauch

## Manufacturer:

Kuhn Farm Machinery (U.K.) Ltd  
 Stafford Park 7, Telford, Shropshire  
 TF3 3BQ  
 Telephone: (01952) 239300  
 Fax: (01952) 290091

## Contact Name:

Robert Garthwaite, Clive French  
 Phil Norman

## Spreader Settings

Model	PTO (RPM)	Bout Width (Metres)	Forward Speed (Km/Hr)	Disc	Blade or Vane Position	Height above Grass (cm)	Scale Position
ZSB 900	360	12	12	NC Orange	1	Front (A) 40 Back 32	12
ZSA 800 (Rauch ZS 800N)	540	12	12	Standard		Front (A) 60 Back (B) 60	10
MDS 620/701/735/901/921/935	540	12	12	M1	C2-A1	Front (A) 50 Back (B) 50	15
MDS 1121 1132	540	12	12	M3	E3-D1	Front (A) 50 Back (B) 50	8
MDS 1121 1132	540	24	12	M5	D1 - A1	Front (A) 50 Back (B) 50	18
MDS 1141 1142	540	18	12	M3	E4-C1	Front (A) 50 Back (B) 50	27 (DFC)



Manufacturer:

Lely UK Ltd/Tulip  
Station Road  
St Neots  
Huntingdon  
Cambridgeshire PE19 1QH

Telephone: (01480) 226800

Fax: (01480) 226801

Contact Name:

Peter Chessum  
Peter Wheeler

### Spreader Settings

Model	PTO (RPM)	Bout Width (Metres)	Forward Speed (Km/Hr)	Machine Setting
Centerliner Supabowl	540	12	9	Quadrant Position 2
CL 1500	540	24	9	2C
Centerliner CL	540	12	11	3
Centerliner 1400 C	540	12	8	3

# Logic

Manufacturer: Logic  
Hexham  
Northumberland

Telephone: (01434) 606661

## Spreader Settings

Model	Forward Speed (Km/Hr)	Machine Setting
Ground Drive LDS 100	12	Between 1 and 3

# Sulky

## Importer

Ruston's Engineering Co Ltd  
(RECO)  
Brampton Road  
Huntingdon  
Cambridgeshire  
PE29 3BS

Telephone: (01480) 455151  
Fax: (01480) 52116

## Contact Name:

Patrick Desmond (07768) 601224  
Chris Clark  
Kim Bannister

## *Spreader Settings*

Model	PTO (RPM)	Bout Width (Metres)	Forward Speed (Km/Hr)	Machine Setting
Sulky DPX Series (e.g. 604, 804, 1004, 1154)	540	12	8	Chute Setting 2.2 Shutter Setting 1.5
DPX 1204/1504 1804/2004	540	12	9	Chute Setting 1.5 Shutter Setting 1.1
DR 450/650/ 850/1150	540	12	12	Vane position 5/1 Shutter Setting 25
Prima	540	12	9	Chute Setting 114 Shutter Setting 10

# Teagle

**Manufacturer:**

Teagle Machinery Ltd  
Blackwater  
Truro  
Cornwall  
TR4 8HQ

Telephone: (01872) 560592  
Fax: (01872) 561166

**Contact Name:**

Geoff Osbourne  
Duncan Wilson

### *Spreader Settings*

Model	PTO (RPM)	Bout Width (Metres)	Forward Speed (KM/Hr)	Machine Setting
AT 22/AT 44	540	12	10	13
XT22 XT24 XT44 XT46 XT48	540	12	10	20

**Notes:** The agitators should be positioned 13 mm above the exit aperture.

# Vicon

**Manufacturer:** Kverneland Group (UK) Ltd  
Walkers Lane  
Lea Green  
St Helens Merseyside WA9 4AF

Telephone: (01744) 853200  
Fax: (01744) 853400

**Contact Name:** Mike Howell (07977) 984090

## *Spreader Settings*

Model	PTO (RPM)	Bout Width (Metres)	Forward Speed (KM/Hr)	Machine
Varispreader	540	7.5	10	13
802/402	540	12	10	18
Vicon Rotaflow	540	12	14	Shutter 22 Width L Flow rate 15 kg/min
RS/M	540	12	14	18 K

**Notes:** The recommended setting is based on the formula:

$$\frac{\text{Application rate (kg/ha)} \times \text{tractor speed (km/hr)} \times \text{bout width (m)}}{600}$$

600

e.g.  $\frac{50 \times 10 \times 12}{600} = 10 \text{ kg/min}$

The farmer should ideally calibrate his spreader to this rate. In practice very few will follow this procedure, hence the need to give an approximate machine setting.

# NOTES

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