

# **SPALDINGS** **BROADCASTER**



## **Operating instructions with parts list**

Control LAS 2  
Software from version 1.6  
Status: April 2007

Serial number: .....

Software version: .....

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# 1 What you should know

## 1.1 Foreword

Thank you for purchasing. With the Spaldings Broadcaster, you have acquired a high quality and innovative product.

Thanks to its advanced design, meticulous material selection, state-of-the-art manufacturing techniques and the precision work of our employees, this device meets all efficiency, quality, reliability and value requirements.

Maintaining and servicing in accordance with the operating instructions ensures the safety of the device and maintains the value of your Spaldings Broadcaster.




## 1.2 About these operating instructions

These operating instructions are part of the Spaldings Broadcaster and must always be readily available. All persons who work with the Spaldings Broadcaster must read and follow the operating instructions.

You must become acquainted with the intricacies of the device, control the device and optimise its operation.

### Warning notices

Warning notices in these operating instructions are identified as follows:

|   |  |
|---|--|
|   | <b>Danger!</b><br>Warning against immediate danger. Not observing appropriate measures can result in death and severe personal injury or heavy damage to property. |
|  | <b>Warning!</b><br>Warning against possible danger. Death, severe personal injury or heavy damage to property are possible.  |
|  | <b>Caution!</b><br>Warning against possible dangerous situations. Slight personal injury or damage to property is possible.  |


# 1 What you should know

## 1.3 Intended use

The Spaldings Broadcaster is used exclusively for spreading granulates and seeds.

## 1.4 Warranty

We provide a guarantee of 6 months and warranty of 24 months on the Spaldings Broadcaster.

|   |  |
|---|--|
|  | <p><b>Caution!</b><br/>Defective or plugs and cables of the wrong size can lead to functional deficiencies.<br/>Use original or cables and plugs approved by the manufacturer.</p> |
|---|--|

Any change to cable or plug connections without factory approval automatically voids the warranty. Motors may not be opened or dismantled.

Warranty repairs must be coordinated with the manufacture before any work is started.

For replacement parts, additional expenses are automatically charged for any changes made to cables and plugs by the customer. Replacement parts are to be returned carriage paid.

Rusted bearings are not subject to the manufacturer's warranty.

Prior to assembly:

Check your Spaldings Broadcaster upon receipt for any damage caused in transit. Such damage(s) must be reported to the manufacturer within 24 hours of receipt.

# 1 What you should know

## 1.5 About your safety

- Carefully read and observe these operating instructions before use. Always keep these instructions at the point of use.
- Adhere to the accident prevention regulations, safety and operating regulations and the regulations for environmental protection.
- Adhere to all applicable standards and guidelines.
- When travelling on public roads and streets, follow the legal rules of the road.
- Follow the safety instructions.
- Immediately resolve any safety-related deficiencies.
- It is forbidden to stay in the spreading zone. Make sure that nobody is within the spreading zone.
- Do not touch the hopper during operation.
- Follow the safety guidelines of the package insert when spreading granulates.
- Wear protective clothing, universal protective gloves in particular, when filling slug pellets or baits. Only fill as many pellets and bait as needed in the short term. Return any remaining product to the original packaging. Ensure that the product does not get into the environment uncontrolled.
- The manufacture guidelines for handling slug pellets or bait with pesticides must be followed.
- Observe the following points when spreading slug pellets:  
The device should only be mounted on the front of the carrier vehicles with a closed cabin.  
Windows should remain closed.  
Care should be taken that air intake into the cabin is always filtered.  
The functionality of the filters must be ensured by the user.
- Do not undertake any repairs, maintenance or cleaning procedures on the Spaldings Broadcaster when the mains plug is connected.

# 2 Putting the Spaldings Broadcaster into service

## 2.1 Mounting the frame

The Spaldings Broadcaster can be screwed on directly or an auxiliary bracket can be used.

Mounting holes are provided on the back of the framework.

Please take the delivery height from the spreading charts (1.00 - 1.30 m).

The Spaldings Broadcaster can be attached on the front or rear of the tractor, off-road vehicle, ATV or soil cultivation equipment. Because a full hopper makes the Spaldings Broadcaster considerably heavier, the load capacity of platform gates and other consoles is to be checked.

## 2.2 Electrical connection

### Technical data

|                                    |   |
|------------------------------------|---|
| Operating voltage                  | 10 to 15 volt                                 |
| Fuse                               | 25 A  |
| Motor output                       | 180 watt                                      |
| Speed range                        | 200 to 3000 RPM                               |
| Current consumption<br>Bosch Motor | Start up to 25 A, normal operation up to 18 A |
| Operating temperature              | -10 to +70 °C                                 |
| Storage temperature                | -30 to +70 °C                                 |

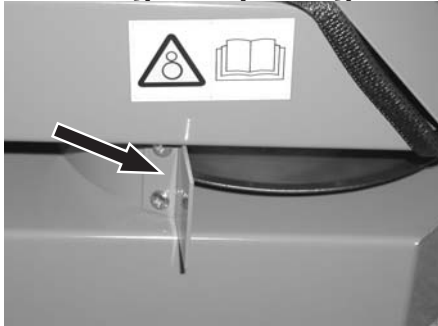
Any change to cable or plug connections without factory approval automatically voids the entire guarantee. Changes to cables are taken into account in the case of repair.

You must consult with the manufacture before carrying out any cable modifications.

Power loss must be taken into account when extending cables. A poor power supply may prevent you from achieving the desired speed. It can also lead to complete loss in the short term.

## 2 Putting the Spaldings Broadcaster into service

### 2.3 Mounting the Spaldings Broadcaster



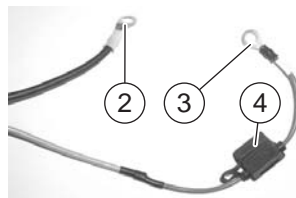
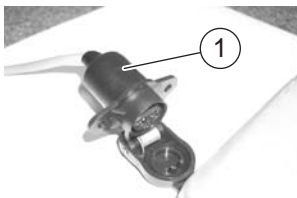
Check whether the hopper fits well in the hopper platform.

Using the included screws, attach the included deflector plate (arrow) perpendicular to the spreader.

Check that the Spaldings Broadcaster is securely attached.

### 2.4 Mounting the control panel

|  |  |
|--|--|
|  | <p><b>Caution!</b><br/>Ensure that the cable is not routed over any sharp edges.</p> |
|--|--|



Mount support for the control panel in the vehicle cabin.

Plug the control panel cable into the 3-pin plug **1** of the carrier vehicle.

If the plug is not available, use the provided battery cable:

Connect terminal **2** to -pole of the battery (not to the body).

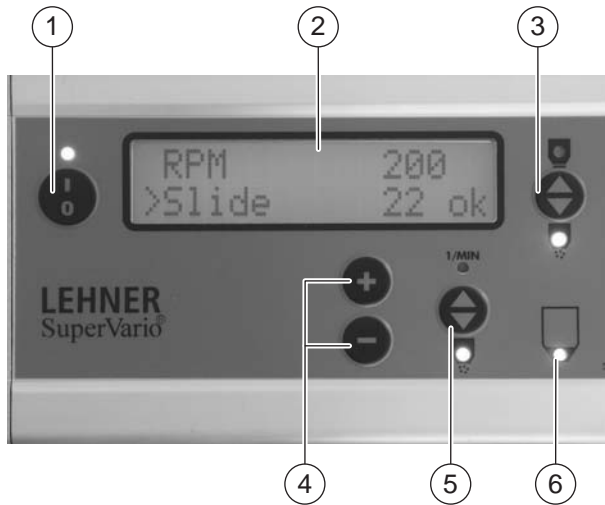
Connect terminal **3** (with fuse **4**) to +pole of the battery

Insert the cable end with plug into the carrier vehicle.

Plug the spreader cable into the 16-pin plug of the control panel.

# 3 Operating the Spaldings Broadcaster

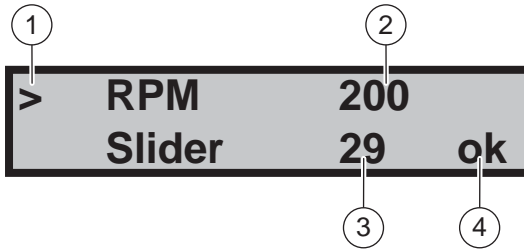
## 3.1 Controls on the control panel



- 1 Switching on / off
- 2 Display
- 3 Opening and closing the slide  
Slide open: green LED lights up  
Slide closed: yellow LED lights up
- 4 Setting the speed or slide
- 5 Switch to change between speed and slide
- 6 Empty signal

# 3 Operating the Spaldings Broadcaster

## 3.2 The display




- 1 Arrow denotes the active line
- 2 Spreading disc speed
- 3 Slide opening
- 4 OK sign for open slide

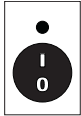
**Disc blocking**  
**Slide not open**

Error messages, also see Troubleshooting chapter.

# 3 Operating the Spaldings Broadcaster

## 3.3 Switching on / off

|   |  |
|---|--|
|  | <b>Danger!</b><br>The driver motor immediately starts when switched on.<br>Make sure the danger area is clear when starting. |
|---|--|



Press the button.  
The speed of the spreading disc and the slide opening is displayed. The slide is always closed when switching on the drive motor.

|         |     |
|---------|-----|
| RPM     | 200 |
| > Slide | 29  |

If this message is displayed, a cable is damaged or a plug disconnected.

|                 |     |
|-----------------|-----|
| > RPM           | 200 |
| Connecting spr. |     |

Low temperatures can cause the empty signal to not respond in time.  
To check the adjustment:

Allow the spreader to run approx. 1 minute with the slide closed.

If the slide is then now opened, the empty signal must be addressed after approx. 5 seconds.

If not, adjust the empty signal by 5% to the negative range; see Settings and displays chapter, Adjusting the empty signal.


### Automatic choke

If the motor is difficult to start due to heavy loads, start the motor up to 10 times in alternating motor direction. If the mixer does not break free as a result, the motor is automatically switched off.

The following message is displayed:

### Disc blocking

# 3 Operating the Spaldings Broadcaster

|   |  |
|---|--|
|  | <p><b>Danger!</b></p> <p>Never open the hopper or touch the spreading disc when the drive motor is running.</p> <p>Switch off the drive motor and ensure that the motor is stopped before opening the hopper or touching the spreading disc.</p> |
|---|--|

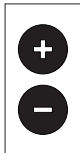
To eliminate the blockage:

1. Switch off the motor.
2. Manually turn the spreading disc or empty the hopper.

## 3.4 Setting the speed



If necessary, press the button to select the speed; the arrow points to the first line in the display.



Press the button to set the speed.  
The speed can be adjusted continuously from 200 - 3000 RPM.  
You can take the required speed from the spreading charts.  
The setpoint speed is displayed for 10 seconds, after which the actual speed is displayed.

# 3 Operating the Spaldings Broadcaster

## 3.5 Setting the slide opening



If necessary, press the button to select the slide. The arrow points to the second line in the display.

|       |     |
|-------|-----|
| > RPM | 200 |
| Slide | 29  |



Press the button to adjust the slide opening. You can take the required slide opening from the spreading chart.

## 3.6 Opening/closing the slide



Press the button to open or close the slide.  
Slide open: green LED lights up  
Slide closed: yellow LED lights up

|       |       |
|-------|-------|
| > RPM | 200   |
| Slide | 29 ok |

### Slide monitoring

If the slide does not reach the specified position within 10 seconds, the spreader switches off.

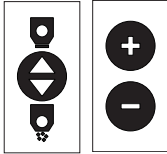
The following message is displayed:

**Slide not open** or **Slide not close**. 5 warning signals also sound. For troubleshooting, see Troubleshooting chapter.

# 3 Operating the Spaldings Broadcaster

## 3.7 Performing the slide reference run

The slide motor and control panel are mutually adjusted at the factory. The setting can be lost in the course of time or when replacing the control panel.



Switch off the machine.

Press and hold the button for switching between speed and slide and the + button to switch the machine on.

The slide performs its reference run.

Approx. 240 is displayed as the upper value and approx. 40 as the lower value.

Switch off the machine from the main switch; the values are saved.

If a slide reference run cannot be performed, the following message flashes on the display: **slide not calib.**

Check the mechanical clearance of the slide and perform another reference run.

## 3.8 Setting the spreading width

The spreading width depends on the condition of the spreading material and the speed of the spreading disc. The more coarse the spreading material, the larger the possible spreading width.

1. Set the speed according to the spreading chart.
2. Set the casting shovels according to the spreading chart.

# 3 Operating the Spaldings Broadcaster

## 3.9 Setting the mixer

Because grasses, in contrast to seeds with their grain structure, have very poor flow properties, the mixer must be adjusted accordingly.



Setting for grasses:  
Upper stirring shaft on one side  
Lower stirring shaft at a ratio of 2/3 or 1/3



Setting for remaining products:  
Upper stirring shaft dismantled  
Lower stirring shaft at a ration of 1 to 1



### **Danger!**

Do not adjust the stirring shafts if the mixer is installed, which otherwise could lead to bearing failure on the motor.

1. Remove the hopper.
2. Firmly hold the spreading disc and turn the mixer to the right.  
**Caution: Left-hand thread!**
3. Appropriately install the stirring shafts.

## 3.10 Empty signal

The empty signal shows you when the spreading material on the hopper falls below a specific fill level:

The following message flashes on the display for approx. 5 seconds:

**Hopper empty**, 8 warning signals sound and the red LED flashes on the empty signal.

To switch off the empty signal:

Close the slide or switch off the spreader.

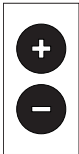
# 4 Settings and displays

The control element can be used to make the following settings:

- Language
- Empty signal selection
- EHR signal
- Empty signal adjustment
- Spreader type
- Motor selection
- Headland manager (optional accessory)

## 4.1 Adjusting the settings

Switch off the machine.

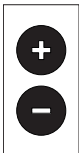


Press both buttons at the same time to switch on the machine.  
The language selection is displayed.

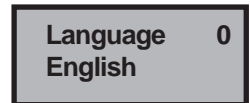


Press the button to select the desired menu item.

## 4.2 Language



Press the button to set the language.

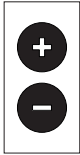


Press toggle switch: Setting saved, next menu item  
or  
press main switch: Setting saved and machine switched off.

# 4 Settings and displays

## 4.3 Selecting the empty signal

The spreader has different versions of the empty signal.



Press the button to select the empty signal:

Via spreading disc resistance (1),  
via mixer motor (2) with soft mixer,  
via external empty signal (3) - not  
programmed

or  
empty signal switched off (0)

**Empty signal 1**  
**Run disc**



Press toggle switch: Setting saved, next  
menu item

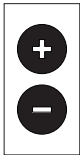
or  
press main switch: Setting saved and  
machine switched off.

## 4.4 Setting the EHR signal

When the spreader is equipped with the headland manager accessory, the hydraulic signal of the tractor can be detected. The signal is emitted when lifting or lowering.

The spreader is set at the factory for the signal when lifting.

If the tractor emits the hydraulic signal when lowering, you can adjust the spreader.



Press the button to set the EHR signal.

EHR signal for lifting:  
**High active** is displayed.

EHR signal for lowering:  
**Low active** is displayed.

**EHR signal 0**  
**High active**



Press toggle switch: Setting saved, next  
menu item

or  
press main switch: Setting saved and  
machine switched off.

# 4 Settings and displays

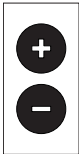
## 4.5 Adjusting the empty signal

Depending on the requirement and spreading material, the empty signal can be set to respond earlier or later.

The value for the empty signal to switch on (if the spreading material falls below a certain fill level) can be adjusted from -50 to +50.

**Note:**

Depending on the spreading material or material humidity, the remainder level can vary somewhat.



Press the button to set the value.  
Factory setting is 0  
With + values, the empty signal responds at higher fill level.  
With - values, the empty signal responds at lower fill level.



## 4.6 Displaying the spreader type

The control is provided for various spreaders.  
The Spaldings Broadcaster is programmed at the factory.



Press toggle switch: Setting saved, next menu item  
or  
press main switch: Setting saved and machine switched off.



## 4.7 Displaying the motor

The Spaldings Broadcaster can be equipped with 2 different drive motors. The control is programmed at the factory and set to the motor installed. The setting cannot be changed.

# 4 Settings and displays

## 4.8 Headland manager (optional accessory)

If the headland manager is connected, an \* is displayed at the end of the first line.

|        |       |
|--------|-------|
| RPM    | 200 * |
| Slider | 29    |

With the headland manager, the slide is automatically opened when lowering the hydraulic and automatically closed when lifting. The slide can **be manually** opened and closed from the control panel.

The signal can be detected from a 7-pin plug or a sensor signal.

### 7-pin plug



1. Connect the connecting cable of the control panel to the 7-pin signal plug of the tractor.
2. Set the EHR signal of the spreader depending on whether the tractor emits the hydraulic signal when lifting or lowering.

# 4 Settings and displays

## Sensor signal



1. Mount the sensor in the joint area of the lower link.
2. Mount the magnetic sensor to the lower link.
3. Set the position of the sensor and magnetic encoder.  
Maximum 10 mm distance.

Hydraulics down:

Sensor not in the area of the magnetic encoder.

Hydraulics up:

Sensor must be in the area of the magnetic encoder.

When the hydraulics lift, the sensor should not leave the area of the magnetic encoder to prevent the slide from re-opening.

## 4.9 Controls

### Voltage check

In order to check the operating voltage (in V), the spreader must be on and the hopper filled.



Press the button for 5 seconds.  
The operating voltage is displayed for 8 seconds.

**Voltage 14.0 V**

# 4 Settings and displays

## Performance check

The motor is set at the factory. No changes are permitted, since otherwise the drive and control parameters no longer match.

To check the performance data, the spreader must be on.



Press the button for min. 5 seconds.

The following information is displayed as long as the button is pressed:

**Line 1:** current drive motor, power consumption in watts and the exact speed.

**Line 2:** R value for factory-internal data, the motor voltage in volts, the current consumption of the motor in ampere.

|     |       |      |
|-----|-------|------|
| TLK | 23.4W | 201  |
| 91R | 3.4V  | 6.9A |

## 4.10 Spreading width and turning procedure

Reference values for the spreading widths of individual spreading materials is available from the included spreading charts.

If you turn the spreader off, please note that spreading material continues to roll on firm surfaces, while on the field it falls directly into the surface soil. In addition, the flow quantities differ from the testing values due to various vibrations during field use.

# 4 Settings and displays

## Turning

1. Put the spreader in the carton or put the carton over the spreader to catch the spreading material.
2. Due to the pull, the speed of the spreading disc used in practice must be set.
3. Weigh out the ejected spreading material at various slide positions until the suitable slide position is determined.

## Determining the spreading width

1. Spread on a firm surface.
2. Weigh spreading material or sweep up a swath lateral to the direction of travel and assess the side distribution.

## Formulas

$$\frac{\text{kg/min} \times 600}{\text{Speed} \times \text{Spreading width (m)}} = \text{Output (kg/ha)}$$

$$\frac{\text{kg/min} \times 600}{\text{Output/ha (kg)} \times \text{Spreading width (m)}} = \text{Speed (km/h)}$$

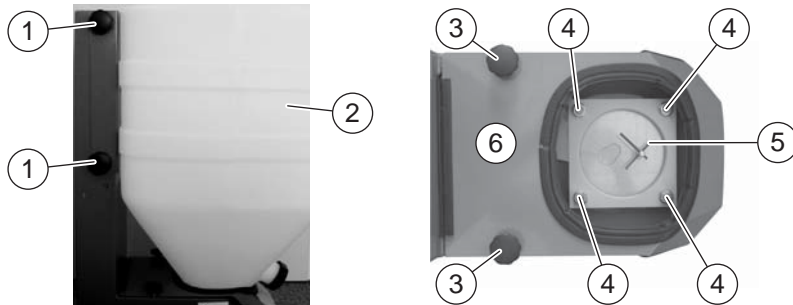
$$\frac{\text{Speed (km/h)} \times \text{Output/ha (kg)} \times \text{Spreading width (m)}}{600} = \text{kg/min}$$

# 5 Maintenance and cleaning

## 5.1 Maintenance

The dosing device and slide should be inspected and cleaned from time to time.

In particular, spreading material with a high dust content can cause the slide unit to clog.



1. Remove screws **1** on the right and left.
2. Remove the hopper **2**.
3. Remove screws **3**.
4. Remove the cover plate **6**.
5. Firmly hold the spreading disc and turn the mixer **5** to the right.  
**Caution: Left-hand thread!**
6. Remove nuts **4**.
7. Dismantle the hopper platform and pull the dosage slide out from the top.
8. Clean the slide unit with a broom or compressed air.

For aggressive spreading material (e.g. silage), regularly remove and clean the motor, and fill the shaft end with grease or copper compound.




## 5.2 Cleaning

The hopper can be nearly emptied by means of the rest discharge.

1. Unscrew the hopper.
2. Clean spreader and hopper with a broom.

# 6 Appendix

## 6.1 EC Declaration of conformity

|  |   |
|--|---|
| <br> | <p>We,<br/><br/>LEHNER Agrar GmbH<br/><b>Häuslesäcker 5-9</b><br/><b>D-89198 Westerstetten</b><br/><b>Tel.: (+49) 07348 95 96 - 0</b><br/><b>Fax: (+49) 07348 95 96 - 40</b><br/><b>www.lehner.eu</b><br/><b>info@lehner.eu</b></p>                                       |
|  | <p>declare that the 12 volt Spaldings Broadcaster conforms to the following directives:<br/>Machinery Directive 98/37/EC,<br/>Low Voltage Directive 73/23/EEC,<br/>EMC Directive 89/336/EEC,<br/>EC Directive 93/68/EEC,<br/>as well as other relevant EC directives.</p> |
|  | <p>Westerstetten, 01.03.2007</p>  |
|  | <br>Manfred Lehner   |

# 6 Appendix

## 6.2 Identification

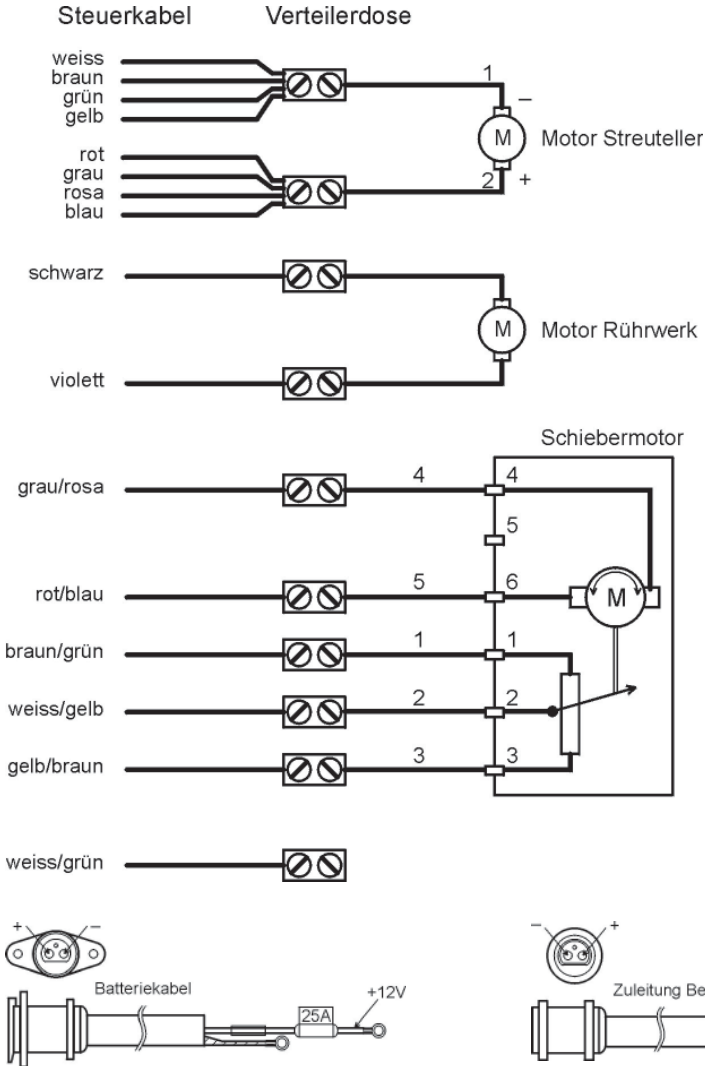
The serial number of the spreader is located on the cover plate. Note the serial number in these operating instructions so that it is readily available for inquiries.



The hardware and software versions are briefly displayed when the control panel is plugged in. Note the software version in these operating instructions so that it is readily available for inquiries.



## 6.3 Distribution box reference list



### Legend

|                      |                           |       |        |         |        |
|----------------------|---------------------------|-------|--------|---------|--------|
| Steuerkabel          | Control cable             | weiß  | white  | blau    | blue   |
| Verteilerdose        | Junction box              | braun | brown  | schwarz | black  |
| Motor Streuteller    | Spreading disc motor      | grün  | green  | violett | violet |
| Motor Rührwerk       | Mixer motor               | gelb  | yellow |         |        |
| Schiebermotor        | Slide motor               | rot   | red    |         |        |
| Batterie Kabel       | Battery cable             | grau  | grey   |         |        |
| Zuleitung Bedienteil | Control panel supply line | rosa  | pink   |         |        |

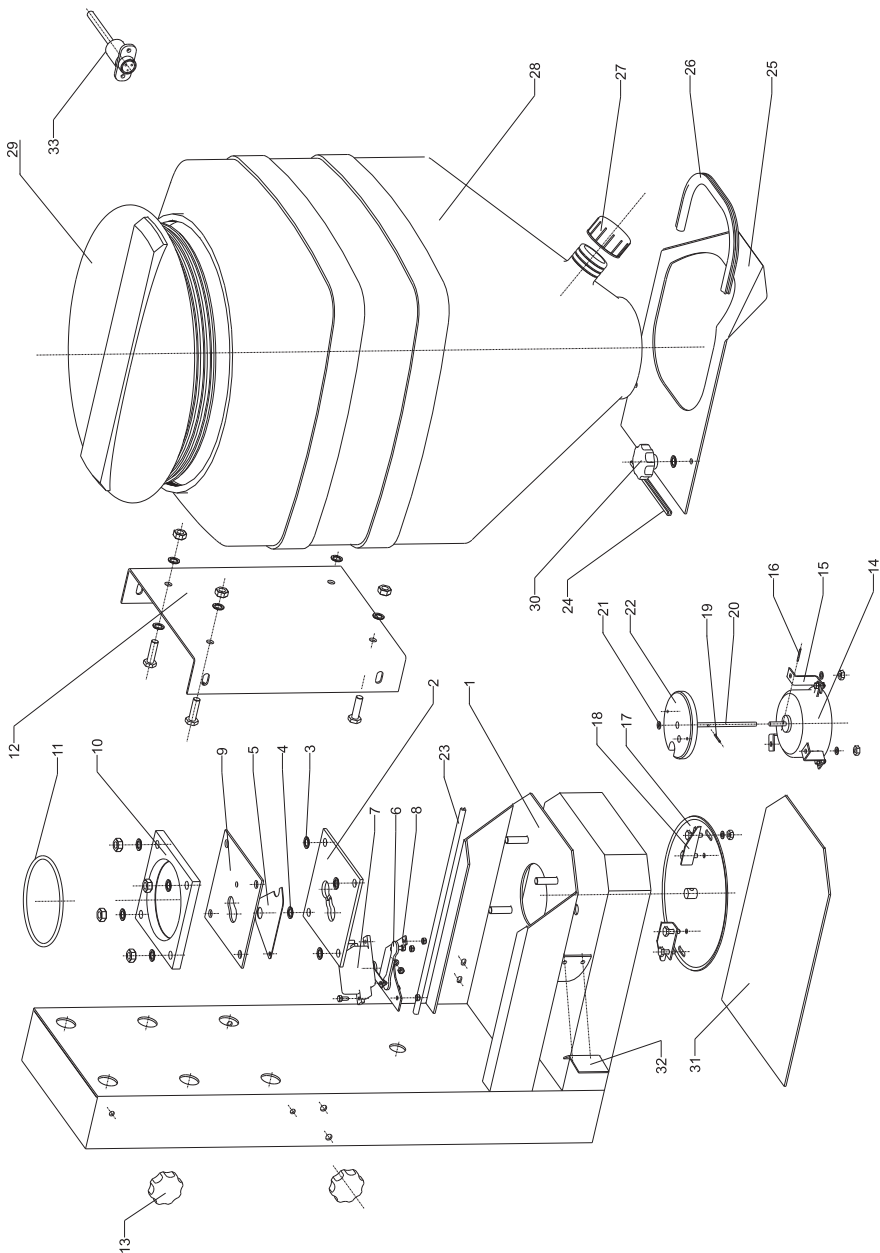
# 6 Appendix

## 6.4 Troubleshooting

| <b>Troubleshooting SPALDINGS BROADCASTER</b>  |   | Status: 01/2007  |
|---|---|--|
| The following information should help you resolve minor problems directly. You are welcome to call us as needed. We are glad to help. |   |  |
| Problem   | Cause   | Resolution   |
| The control panel crackles  | Loose contact on the power supply   | Check contacts and fuses   |
| No display  | + and - were switched or fuse is bad  | Check connections and fuses  |
| Mixer does not turn over  | Foreign body on the mixer   | Empty hopper and check for foreign body  |
| Motor only reaches 1200 RPM with slug pellets   | Upper stirring shaft installed  | Dismantle upper stirring shaft   |
| RPMs fall to approx. 1300 with grass  | Very strong vibrations and resulting settling of the material                             | And place lower stirring shaft in centre<br>Order and install "load relief roof" accessory                                 |
| Spreading disc does not reach set speed   | Foreign body on the mixer, load to great or power supply too weak                         | Check mixer, stirring finger control, see page 15,<br>Check power supply, see page 7, 26                                   |
| Slide jams  | Spreading material or dirt is jammed between the slide plates                             | Clean slide  |
| On the display: Disc blocking   | Spreading disc does not turn; switched off after 10 attempts<br>Material may be compacted | Check mixer, stirring finger control, see page 15,<br>Possibly start spreader again  |
| On the display: Slide not open  | Slide could not go into position when opening   | Check slide for contamination, or perform reference run; see Slide reference run,<br>Cable not plugged in, motor defective |
| On the display: Slide not close   | Slide could not go into position when closing   | Check slide mechanics for foreign body, or perform reference run; see Slide reference run                                  |
| The version is displayed again and again.   | Fuse oxidised, loose contact.   | Check contacts and fuses   |
| Slide does not open although no error message is displayed.   | Damage to slide mechanics   | Check slide motor and transfer mechanics   |
| On the display: Connecting spr.   | Control panel plug not connected to spreader or line damage                               | Check plug connections and lines   |
| Empty signal does not respond   | Empty signal is set too low   | Adjust empty signal (see page 18)  |
| Headland manager closes the slide when draining the hydraulics and opens when lifting   | Signal incorrectly applied  | Turn signal. See EHR signal  |
| Headland manager does not always close  | Distance to magnetic sensor too large   | Check distance, max. 10 mm.  |

# 6 Appendix

## 6.5 Parts list



# 6 Appendix

## SPALDINGS BROADCASTER parts list

Status 03/2007

| Designation                                     | Quantity | Material                  | Size            |
|---|----------|---------------------------|-----------------|
| 1 Steel frame                                   | 1        | steel                     |                 |
| 2 Dosage slide                                  | 1        | plastic                   | 150/150 mm      |
| 3 U disc  | 3        | stainless steel           | M 10            |
| 4 Adjusting washer                              | 1        | stainless steel           | M10             |
| 5 Slide   | 1        | stainless steel           |                 |
| 6 Double spherical bearings with ball stud      | 1        | plastic / galvanised      |                 |
| 7 Slide motor                                   | 1        |                           |                 |
| 8 Fixing bracket for slide motor                | 1        | steel                     | M5/16           |
| 9 Dosage slide, top                             | 1        | stainless steel           | 150/150/2       |
| 10 Hopper platform                              | 1        | plastic                   | 150/150/15      |
| 11 Hopper seal                                  | 1        | rubber                    | 140             |
| 12 Hopper bracket                               | 1        | steel                     | M6/16           |
| 13 Knurled screw                                | 4        | plastic / stainless steel | M 8/15          |
| 14 Drive motor                                  | 1        |                           |                 |
| 15 Motor mounts                                 | 3        | stainless steel           |                 |
| 16 Hexagon socket set screw                     | 1        | stainless steel           | M6x10           |
| 17 Spreading disc                               | 1        | stainless steel           | 250             |
| 18 Casting shovel                               | 2        | stainless steel           |                 |
| 19 Stirring shaft                               | 2        | steel                     | 3x50            |
| 20 Agitator                                     | 1        | stainless steel           |                 |
| 21 Sealing disc                                 | 1        | plastic                   |                 |
| 22 Stabilisation disc                           | 1        | plastic                   |                 |
| 23 Edge guard without padding                   | 1        | plastic                   |                 |
| 24 Edge guard with padding                      | 1        | plastic                   |                 |
| 25 Cover plate                                  | 1        | steel                     |                 |
| 26 Edge guard with padding for hopper           | 1        | plastic                   |                 |
| 27 Discharge cover                              | 1        | plastic                   |                 |
| 28 Hopper                                       | 1        | plastic                   | 70/105/170 ltr. |
| 29 Sealing cap                                  | 1        | plastic                   |                 |
| 30 Star grip nut                                | 2        | plastic / stainless steel | M 6             |
| 31 Base plate                                   | 1        | plastic                   |                 |
| 32 Deflector plate                              | 1        | steel                     |                 |
| 33 Battery cable with bracket                   | 1        |                           |                 |
| 34 Cable set (no diagram)                       | 1        |                           |                 |
| 35 Control panel (no diagram)                   | 1        |                           |                 |
| 36 Operating instructions with spreading charts | 1        |                           |                 |

# 6 Appendix

## 6.6 Spreading charts

| <b>SPALDINGS BROADCASTER</b>          |    |    |   |    |    |          |    |    |          |    |    |         |    |    |     |     |
|---------------------------------------|----|----|---|----|----|----------|----|----|----------|----|----|---------|----|----|-----|-----|
| <b>Spreading chart, white mustard</b> |    |    | Status: 08/2005      Check settings with field samples. |    |    |          |    |    |          |    |    |         |    |    |     |     |
| Delivery height: 1.00 m               |    |    | 2.5 m   |    |    | 3.00 m   |    |    | 4.00 m   |    |    | 4.70 m  |    |    |     |     |
| Spreading width                       |    |    | 300 RPM   |    |    | 350 RPM  |    |    | 400 RPM  |    |    | 460 RPM |    |    |     |     |
| RPM                                   | 6  | 8  | 10  | 12 | 6  | 8        | 10 | 12 | 6        | 8  | 10 | 12      | 6  | 8  | 10  | 12  |
| <b>Slide opening:</b>                 |    |    |   |    |    |          |    |    |          |    |    |         |    |    |     |     |
| at 8 kg/ha                            | 18 | 20 | 22  | 24 | 19 | 21       | 23 | 25 | 21       | 24 | 26 | 27      | 22 | 25 | 27  | 28  |
| at 10 kg/ha                           | 19 | 22 | 24  | 26 | 20 | 24       | 26 | 27 | 23       | 26 | 28 | 30      | 24 | 27 | 29  | 31  |
| at 12 kg/ha                           | 21 | 24 | 26  | 28 | 22 | 26       | 27 | 29 | 25       | 28 | 30 | 32      | 26 | 29 | 31  | 35  |
| at 15 kg/ha                           | 23 | 26 | 28  | 31 | 25 | 27       | 29 | 32 | 27       | 30 | 33 | 37      | 28 | 31 | 35  | 39  |
| at 20 kg/ha                           | 26 | 29 | 33  | 36 | 27 | 30       | 35 | 38 | 30       | 35 | 39 | 42      | 31 | 36 | 41  | 45  |
| at 25 kg/ha                           | 28 | 33 | 37  | 40 | 29 | 35       | 39 | 42 | 32       | 39 | 44 | 48      | 35 | 41 | 47  | 51  |
| <b>Spreading width</b>                |    |    |   |    |    |          |    |    |          |    |    |         |    |    |     |     |
| 6.00 m                                |    |    | 9.00 m  |    |    | 12.00 m  |    |    | 15.00 m  |    |    |         |    |    |     |     |
| 600 RPM                               |    |    | 980 RPM   |    |    | 1300 RPM |    |    | 2300 RPM |    |    |         |    |    |     |     |
| RPM                                   | 6  | 8  | 10  | 12 | 6  | 8        | 10 | 12 | 8        | 10 | 15 | 20      | 8  | 10 | 15  | 20  |
| <b>Slide opening:</b>                 |    |    |   |    |    |          |    |    |          |    |    |         |    |    |     |     |
| at 8 kg/ha                            | 23 | 26 | 28  | 29 | 25 | 28       | 31 | 35 | 30       | 34 | 43 | 50      | 29 | 32 | 41  | 49  |
| at 10 kg/ha                           | 25 | 28 | 31  | 34 | 27 | 31       | 35 | 39 | 34       | 38 | 48 | 57      | 32 | 36 | 47  | 58  |
| at 12 kg/ha                           | 27 | 30 | 35  | 37 | 29 | 34       | 39 | 43 | 38       | 43 | 53 | 65      | 36 | 40 | 54  | 67  |
| at 15 kg/ha                           | 30 | 34 | 38  | 43 | 33 | 39       | 44 | 48 | 43       | 48 | 62 | 76      | 40 | 47 | 63  | 82  |
| at 20 kg/ha                           | 34 | 40 | 45  | 49 | 39 | 45       | 54 | 58 | 50       | 59 | 76 | 91      | 49 | 58 | 82  | 100 |
| at 25 kg/ha                           | 38 | 45 | 50  | 54 | 44 | 50       | 60 | 66 | 59       | 67 | 87 | 100     | 58 | 70 | 100 | 100 |

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Position of casting shovels: completely against direction of rotation or up to 10 mm away.  
 At low delivery heights, the speed of the disc must be increased.  
 The pull of the spreading disc increases as the speed increases.

# 6 Appendix

## Spreading chart, fodder radish

SPALDINGS BROADCASTER

Delivery height: 1.00 m Status: 08/2005 Check settings with field samples.

| Spreading width        |  | 2.5 m   |    |    | 3 m     |    |    | 3.4 m   |    |    | 4.00 m   |    |    |    |    |    |    |
|------------------------|--|---------|----|----|---------|----|----|---------|----|----|----------|----|----|----|----|----|----|
| RPM                    |  | 200 RPM |    |    | 250 RPM |    |    | 300 RPM |    |    | 340 RPM  |    |    |    |    |    |    |
| km/h                   |  | 6       | 8  | 10 | 12      | 6  | 8  | 10      | 12 | 6  | 8        | 10 | 12 |    |    |    |    |
| <b>Slide opening:</b>  |  |         |    |    |         |    |    |         |    |    |          |    |    |    |    |    |    |
| at 10 kg/ha            |  | 23      | 25 | 26 | 28      | 24 | 26 | 28      | 30 | 25 | 27       | 29 | 31 | 26 | 28 | 31 | 35 |
| at 12 kg/ha            |  | 24      | 26 | 28 | 30      | 25 | 28 | 30      | 33 | 26 | 29       | 32 | 35 | 27 | 30 | 35 | 37 |
| at 15 kg/ha            |  | 26      | 28 | 30 | 33      | 27 | 30 | 34      | 37 | 28 | 31       | 36 | 39 | 30 | 35 | 38 | 41 |
| at 20 kg/ha            |  | 28      | 31 | 35 | 38      | 30 | 34 | 38      | 42 | 31 | 37       | 40 | 44 | 34 | 39 | 43 | 47 |
| at 25 kg/ha            |  | 30      | 35 | 38 | 42      | 34 | 38 | 42      | 46 | 36 | 40       | 45 | 48 | 38 | 43 | 47 | 51 |
| <b>Spreading width</b> |  |         |    |    |         |    |    |         |    |    |          |    |    |    |    |    |    |
|                        |  | 5.00 m  |    |    | 6.00 m  |    |    | 12.00 m |    |    | 17.00 m  |    |    |    |    |    |    |
| RPM                    |  | 370 RPM |    |    | 460 RPM |    |    | 930 RPM |    |    | 2300 RPM |    |    |    |    |    |    |
| km/h                   |  | 6       | 8  | 10 | 12      | 6  | 8  | 10      | 12 | 6  | 8        | 10 | 12 | 6  | 8  | 10 | 12 |
| <b>Slide opening:</b>  |  |         |    |    |         |    |    |         |    |    |          |    |    |    |    |    |    |
| at 10 kg/ha            |  | 28      | 31 | 34 | 37      | 29 | 32 | 35      | 38 | 35 | 42       | 46 | 50 | 32 | 38 | 43 | 47 |
| at 12 kg/ha            |  | 30      | 33 | 37 | 40      | 31 | 34 | 38      | 45 | 40 | 45       | 50 | 55 | 36 | 42 | 47 | 51 |
| at 15 kg/ha            |  | 32      | 37 | 41 | 45      | 34 | 38 | 45      | 48 | 44 | 50       | 57 | 60 | 40 | 47 | 53 | 59 |
| at 20 kg/ha            |  | 38      | 43 | 47 | 51      | 39 | 46 | 50      | 56 | 50 | 58       | 69 | 75 | 47 | 56 | 66 | 74 |
| at 25 kg/ha            |  | 41      | 47 | 53 | 59      | 45 | 50 | 57      | 66 | 56 | 69       | 78 | 87 | 54 | 66 | 80 | 90 |

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Position of casting shovels: completely against direction of rotation or up to 10 mm away.  
 At low delivery heights, the speed of the disc must be increased.  
 The pull of the spreading disc increases as the speed increases.

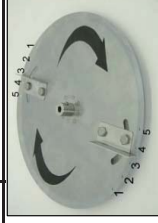
# 6 Appendix

## Spreading chart, red clover

Status 08/2005 SPALDINGS BROADCASTER

| Delivery height: 1.00 m     |      | Recommended output: 20 kg/ha |          |          |          |          |          | Check settings with field samples. |          |          |    |    |    |        |    |    |    |    |    |    |    |
|-----------------------------|------|------------------------------|----------|----------|----------|----------|----------|------------------------------------|----------|----------|----|----|----|--------|----|----|----|----|----|----|----|
| Spreading width             |      | 2.5 m                        |          | 3 m      |          | 4 m      |          | 5 m                                |          | 6 m      |    |    |    |        |    |    |    |    |    |    |    |
| RPM                         | km/h | 250 RPM                      | 300 RPM  | 300 RPM  | 400 RPM  | 400 RPM  | 500 RPM  | 500 RPM                            | 700 RPM  | 700 RPM  |    |    |    |        |    |    |    |    |    |    |    |
| Slide opening:              |      | 6                            | 8        | 10       | 12       | 6        | 8        | 10                                 | 12       | 6        | 8  | 10 | 12 |        |    |    |    |    |    |    |    |
| at 10 kg/ha                 |      | 14                           | 19       | 21       | 22       | 18       | 21       | 22                                 | 26       | 22       | 23 | 26 | 28 | 23     | 26 | 27 | 30 | 24 | 27 | 29 | 32 |
| at 12 kg/ha                 |      | 21                           | 22       | 23       | 25       | 22       | 24       | 25                                 | 28       | 24       | 26 | 28 | 30 | 25     | 28 | 30 | 32 | 26 | 30 | 32 | 35 |
| at 15 kg/ha                 |      | 23                           | 24       | 26       | 28       | 24       | 27       | 29                                 | 30       | 26       | 28 | 31 | 33 | 27     | 30 | 33 | 36 | 30 | 33 | 36 | 39 |
| at 20 kg/ha                 |      | 26                           | 27       | 28       | 30       | 27       | 28       | 32                                 | 33       | 29       | 31 | 34 | 37 | 31     | 34 | 38 | 41 | 33 | 36 | 41 | 44 |
| at 25 kg/ha                 |      | 28                           | 29       | 30       | 33       | 30       | 31       | 34                                 | 35       | 32       | 34 | 37 | 41 | 33     | 37 | 42 | 45 | 34 | 39 | 45 | 47 |
| Position of casting shovels |      | Hole 4.5                     |          |          |          |          |          | Hole 4.5                           |          |          |    |    |    | Hole 4 |    |    |    |    |    |    |    |
| Spreading width             |      | 7 m                          |          | 8 m      |          | 9 m      |          | 12 m                               |          | 15 m     |    |    |    |        |    |    |    |    |    |    |    |
| RPM                         | km/h | 1300 RPM                     | 1500 RPM | 1500 RPM | 1700 RPM | 1700 RPM | 2300 RPM | 2300 RPM                           | 2500 RPM | 2500 RPM |    |    |    |        |    |    |    |    |    |    |    |
| Slide opening:              |      | 6                            | 8        | 10       | 12       | 6        | 8        | 10                                 | 12       | 6        | 8  | 10 | 12 | 6      | 8  | 10 | 12 |    |    |    |    |
| at 10 kg/ha                 |      | 22                           | 25       | 27       | 30       | 23       | 26       | 28                                 | 32       | 24       | 27 | 30 | 34 | 25     | 28 | 33 | 36 | 26 | 32 | 34 | 38 |
| at 12 kg/ha                 |      | 24                           | 28       | 30       | 33       | 25       | 29       | 32                                 | 35       | 26       | 31 | 34 | 36 | 27     | 33 | 36 | 39 | 31 | 34 | 38 | 42 |
| at 15 kg/ha                 |      | 28                           | 30       | 32       | 37       | 29       | 31       | 34                                 | 37       | 30       | 33 | 36 | 42 | 32     | 36 | 40 | 45 | 34 | 38 | 45 | 48 |
| at 20 kg/ha                 |      | 31                           | 34       | 39       | 44       | 33       | 36       | 42                                 | 46       | 35       | 38 | 44 | 51 | 36     | 41 | 46 | 52 | 38 | 45 | 49 | 57 |
| at 25 kg/ha                 |      | 33                           | 39       | 44       | 47       | 34       | 41       | 46                                 | 50       | 37       | 44 | 51 | 54 | 40     | 45 | 53 | 57 | 45 | 49 | 57 | 69 |
| Position of casting shovels |      | Hole 3.5                     |          |          |          |          |          | Hole 3                             |          |          |    |    |    | Hole 3 |    |    |    |    |    |    |    |

At low delivery heights, the speed of the disc must be increased.  
 The speed may decrease at upper spreading width. Please shorten stirring shaft by half.  
 The pull of the spreading disc increases as the speed increases.



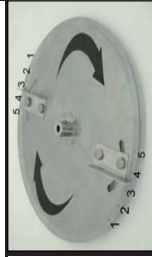
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# 6 Appendix

| <b>Spreading chart, white clover</b>                                |  |                |   |    |                |    |    |                 |    |    |                 |    | <b>SPALDINGS BROADCASTER</b> |    |    |    |    |
|---|--|----------------|---|----|----------------|----|----|-----------------|----|----|-----------------|----|------------------------------|----|----|----|----|
| <b>Delivery height: 1.00 m</b>                                      |  |                | <b>Check settings with field samples.</b> |    |                |    |    |                 |    |    |                 |    |                              |    |    |    |    |
| <b>Spreading width</b>  |  | <b>2.5 m</b>   |   |    | <b>3.0 m</b>   |    |    | <b>6.0 m</b>    |    |    | <b>12.0 m</b>   |    |                              |    |    |    |    |
| <b>RPM</b>  |  | <b>500 RPM</b> |   |    | <b>600 RPM</b> |    |    | <b>1000 RPM</b> |    |    | <b>2100 RPM</b> |    |                              |    |    |    |    |
| <b>km/h</b>   |  | 6              | 8   | 10 | 12             | 6  | 8  | 10              | 12 | 6  | 8               | 10 | 12                           | 6  | 8  | 10 | 12 |
| <b>Slide opening:</b>   |  |                |   |    |                |    |    |                 |    |    |                 |    |                              |    |    |    |    |
| <b>at 10 kg/ha</b>  |  | 10             | 12  | 14 | 16             | 12 | 14 | 16              | 18 | 13 | 15              | 18 | 20                           | 16 | 19 | 21 | 23 |
| At lower delivery heights, the speed of the disc must be increased. |  |                |   |    |                |    |    |                 |    |    |                 |    |                              |    |    |    |    |
| If side distribution is uneven, adjust casting shovels.             |  |                |   |    |                |    |    |                 |    |    |                 |    |                              |    |    |    |    |
| © LEHNER  |  |                |   |    |                |    |    |                 |    |    |                 |    |                              |    |    |    |    |

# 6 Appendix

| <b>Spreading chart, grassland mixture</b>   |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   | <b>SPALDINGS BROADCASTER</b> |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|----|----|----|----|--------|----|----|----|-----|--------|----|----|----|----|----------|---|------------------------------|----|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 30% ryegrass, 18% timothy, 21% meadow fescue, 9% orchard grass, 13% Kentucky bluegrass, 9% white clover         |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   | Status: 03/2005              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.00 m  |    |    |    |    | 2.50 m |    |    |    |     | 3.00 m |    |    |    |    | 4.00 RPM |   |                              |    |    | 800 RPM |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RPM   | 6  | 8  | 10 | 12 | 15     | 6  | 8  | 10 | 12  | 15     | 6  | 8  | 10 | 12 | 15       | 6 | 8                            | 10 | 12 | 15      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Slide opening:</b>   |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 kg/ha   | 56 | 58 | 59 | 61 | 63     | 57 | 59 | 61 | 62  | 64     | 46 | 50 | 52 | 54 | 56       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 kg/ha   | 58 | 60 | 62 | 64 | 67     | 60 | 62 | 63 | 65  | 68     | 50 | 53 | 55 | 57 | 59       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 kg/ha  | 61 | 64 | 67 | 69 | 72     | 62 | 64 | 67 | 70  | 72     | 54 | 56 | 59 | 61 | 62       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 kg/ha  | 65 | 69 | 72 | 74 | 76     | 65 | 70 | 72 | 74  | 77     | 58 | 61 | 63 | 65 | 68       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 kg/ha  | 69 | 72 | 75 | 76 | 78     | 71 | 73 | 75 | 78  | 80     | 61 | 64 | 67 | 70 | 71       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 kg/ha  | 72 | 75 | 77 | 78 | 80     | 72 | 75 | 78 | 81  | 83     | 63 | 66 | 70 | 72 | 74       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 kg/ha  | 76 | 78 | 80 | 85 | 88     | 74 | 81 | 84 | 87  | 89     | 69 | 72 | 75 | 77 | 81       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Position of casting shovels on scale 5  |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spreading width 4.00 m  |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RPM 1200 RPM  |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6   | 8  | 10 | 12 | 15 | 6      | 8  | 10 | 12 | 15  | 6      | 8  | 10 | 12 | 15 | 6        | 8 | 10                           | 12 | 15 |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Slide opening:</b>   |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 kg/ha   | 43 | 46 | 50 | 52 | 55     | 37 | 39 | 42 | 44  | 48     | 34 | 35 | 37 | 39 | 44       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 kg/ha   | 47 | 51 | 54 | 56 | 59     | 40 | 43 | 46 | 51  | 53     | 39 | 40 | 42 | 44 | 50       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 kg/ha  | 51 | 55 | 59 | 63 | 67     | 44 | 49 | 53 | 56  | 68     | 45 | 46 | 50 | 52 | 57       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 kg/ha  | 57 | 62 | 67 | 71 | 76     | 51 | 56 | 67 | 72  | 75     | 52 | 53 | 58 | 62 | 66       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 kg/ha  | 63 | 68 | 75 | 77 | 79     | 56 | 70 | 73 | 77  | 81     | 60 | 61 | 65 | 68 | 76       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 kg/ha  | 67 | 75 | 77 | 79 | 84     | 68 | 73 | 77 | 81  | 84     | 65 | 66 | 69 | 76 | 80       |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 kg/ha  | 77 | 80 | 86 | 98 | 100    | 76 | 82 | 85 | 100 | 100    | 77 | 78 | 82 | 87 |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Position of casting shovels on scale 4  |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delivery height: 1.00 m   |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Check settings with field samples.  |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| If side distribution is uneven, adjust casting shovels.   |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| The flow properties of grass seed are greatly affected by external influences such as water content - humidity. |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |
| The pull of the spreading disc increases as the speed increases.  |    |    |    |    |        |    |    |    |     |        |    |    |    |    |          |   |                              |    |    |         |  |  |  |  |  |  |  |  |  |  |  |  |  |



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# 6 Appendix

| <b>Spreading chart, Welsh ryegrass</b> |  |  |  |             |  |  |  |             |  |  |  |             |  |  |  |
|--|--|--|--|-------------|--|--|--|-------------|--|--|--|-------------|--|--|--|
| SPALDINGS BROADCASTER                  |  |  |  |             |  |  |  |             |  |  |  |             |  |  |  |
| Delivery height: 1.00 m                |  |  |  | 2.50 m      |  |  |  | 4.00 m      |  |  |  | 6.00 m      |  |  |  |
| Spreading width                        |  |  |  | 500 RPM     |  |  |  | 1200 RPM    |  |  |  | 2000 RPM    |  |  |  |
| RPM                                    |  |  |  | 6 8 10 12   |  |  |  | 6 8 10 12   |  |  |  | 6 8 10 12   |  |  |  |
| km/h                                   |  |  |  |             |  |  |  |             |  |  |  |             |  |  |  |
| Slide opening:                         |  |  |  |             |  |  |  |             |  |  |  |             |  |  |  |
| at 15 kg/ha                            |  |  |  | 48 52 56 59 |  |  |  | 38 40 43 45 |  |  |  | 44 45 46 48 |  |  |  |
| at 25 kg/ha                            |  |  |  | 53 57 60 62 |  |  |  | 45 56 60 65 |  |  |  | 55 56 57 58 |  |  |  |

Check settings with field samples.

| <b>Spreading chart, German ryegrass</b> |  |  |  |             |  |  |  |             |  |  |  |             |  |  |  |
|---|--|--|--|-------------|--|--|--|-------------|--|--|--|-------------|--|--|--|
| SPALDINGS BROADCASTER                   |  |  |  |             |  |  |  |             |  |  |  |             |  |  |  |
| Delivery height: 1.00 m                 |  |  |  | 2.50 m      |  |  |  | 4.00 m      |  |  |  | 6.00 m      |  |  |  |
| Spreading width                         |  |  |  | 500 RPM     |  |  |  | 1200 RPM    |  |  |  | 2000 RPM    |  |  |  |
| RPM                                     |  |  |  | 6 8 10 12   |  |  |  | 6 8 10 12   |  |  |  | 6 8 10 12   |  |  |  |
| km/h                                    |  |  |  |             |  |  |  |             |  |  |  |             |  |  |  |
| Slide opening:                          |  |  |  |             |  |  |  |             |  |  |  |             |  |  |  |
| at 15 kg/ha                             |  |  |  | 48 51 57 59 |  |  |  | 39 43 52 55 |  |  |  | 38 40 45 48 |  |  |  |
| at 25 kg/ha                             |  |  |  | 52 55 70 82 |  |  |  | 50 53 66 72 |  |  |  | 60 75 82    |  |  |  |

Check settings with field samples.

Position of casting shovels: completely against direction of the spreading disc.

The flow properties of grass seed are greatly affected by external influences such as water content - humidity:

The pull of the spreading disc increases as the speed increases.

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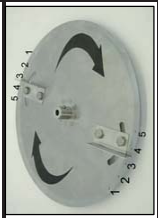
# 6 Appendix

## MG 500 coated seed

### SPALDINGS BROADCASTER

Delivery height: 1.00 m      Status: 08/2005      Check settings with field samples.

| Spreading width             | 2.5 m    |    |    |    | 3 m      |    |    |    | 4 m      |    |    |    | 5 m      |    |    |    |
|-----------------------------|----------|----|----|----|----------|----|----|----|----------|----|----|----|----------|----|----|----|
|                             | 200 RPM  |    |    |    | 250 RPM  |    |    |    | 300 RPM  |    |    |    | 350 RPM  |    |    |    |
| RPM                         | 6        | 8  | 10 | 12 | 6        | 8  | 10 | 12 | 6        | 8  | 10 | 12 | 6        | 8  | 10 | 12 |
| km/h                        |          |    |    |    |          |    |    |    |          |    |    |    |          |    |    |    |
| Slide opening:              |          |    |    |    |          |    |    |    |          |    |    |    |          |    |    |    |
| 5 kg/ha                     | /        |    |    |    | /        |    |    |    | /        |    |    |    | /        |    |    |    |
| 7 kg/ha                     | /        |    |    |    | /        |    |    |    | /        |    |    |    | /        |    |    |    |
| 10 kg/ha                    | /        |    |    |    | /        |    |    |    | /        |    |    |    | /        |    |    |    |
| 15 kg/ha                    | /        |    |    |    | /        |    |    |    | /        |    |    |    | /        |    |    |    |
| 20 kg/ha                    | /        |    |    |    | /        |    |    |    | /        |    |    |    | /        |    |    |    |
| 25 kg/ha                    | /        |    |    |    | /        |    |    |    | /        |    |    |    | /        |    |    |    |
| 40 kg/ha                    | /        |    |    |    | /        |    |    |    | /        |    |    |    | /        |    |    |    |
| Position of casting shovels | Hole 3   |    |    |    | Hole 3.5 |    |    |    | Hole 3.5 |    |    |    | Hole 4.5 |    |    |    |
| Spreading width             | 6 m      |    |    |    | 8 m      |    |    |    | 9 m      |    |    |    | 10 m     |    |    |    |
| RPM                         | 1600 RPM |    |    |    | 2000 RPM |    |    |    | 2250 RPM |    |    |    | 2500 RPM |    |    |    |
| km/h                        | 6        | 8  | 10 | 12 | 6        | 8  | 10 | 12 | 6        | 8  | 10 | 12 | 6        | 8  | 10 | 12 |
| Slide opening:              |          |    |    |    |          |    |    |    |          |    |    |    |          |    |    |    |
| 5 kg/ha                     | 39       | 40 | 42 | 44 | 38       | 42 | 46 | 47 | 39       | 45 | 50 | 52 | 38       | 45 | 47 | 49 |
| 7 kg/ha                     | 43       | 44 | 45 | 47 | 43       | 47 | 49 | 52 | 46       | 51 | 53 | 55 | 45       | 48 | 51 | 60 |
| 10 kg/ha                    | 45       | 46 | 48 | 50 | 48       | 51 | 54 | 61 | 52       | 55 | 59 | 62 | 50       | 56 | 61 | 63 |
| 15 kg/ha                    | 48       | 50 | 51 | 56 | 52       | 62 | 65 | 71 | 56       | 63 | 69 | 74 | 60       | 63 | 70 | 76 |
| 20 kg/ha                    | 53       | 57 | 60 | 62 | 61       | 69 | 73 | 78 | 63       | 71 | 80 | 83 | 63       | 73 | 78 | 84 |
| 25 kg/ha                    | 58       | 59 | 64 | 68 | 66       | 73 | 80 | 88 | 69       | 80 | 84 | 85 | 70       | 78 | 85 | 88 |
| 40 kg/ha                    | 69       | 70 | 77 | 87 | 77       | 90 | 94 | 98 | 83       | 91 | 96 | 99 | 84       | 89 | 98 | 98 |
| Position of casting shovels | Hole 5   |    |    |    | Hole 4.5 |    |    |    | Hole 4.5 |    |    |    | Hole 4   |    |    |    |



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If side distribution is uneven, adjust casting shovels.  
 The flow properties of grass seed are greatly affected by external influences such as water content - humidity.  
 The pull of the spreading disc increases as the speed increases.

# 6 Appendix

| <b>Spreading chart, ann. ryegrass</b> |  |  |  |  |  |   |  |          |  |           |  | <b>SPALDINGS BROADCASTER</b> |  |          |  |          |  |           |  |    |  |    |  |    |  |    |  |
|---------------------------------------|--|--|--|--|--|---|--|----------|--|-----------|--|------------------------------|--|----------|--|----------|--|-----------|--|----|--|----|--|----|--|----|--|
| <b>Delivery height: 1.00 m</b>        |  |  |  |  |  | <b>Check settings with field samples.</b> |  |          |  |           |  |                              |  |          |  |          |  |           |  |    |  |    |  |    |  |    |  |
| <b>Spreading width 2.50 m</b>         |  |  |  |  |  | <b>4.00 m</b>                             |  |          |  |           |  | <b>6.00 m</b>                |  |          |  |          |  |           |  |    |  |    |  |    |  |    |  |
| <b>RPM</b>                            |  |  |  |  |  | <b>1200 RPM</b>                           |  |          |  |           |  | <b>2100 RPM</b>              |  |          |  |          |  |           |  |    |  |    |  |    |  |    |  |
| <b>km/h</b>                           |  |  |  |  |  | <b>6</b>                                  |  | <b>8</b> |  | <b>10</b> |  | <b>12</b>                    |  | <b>6</b> |  | <b>8</b> |  | <b>10</b> |  |    |  |    |  |    |  |    |  |
| <b>Slide opening:</b>                 |  |  |  |  |  |   |  |          |  |           |  |                              |  |          |  |          |  |           |  |    |  |    |  |    |  |    |  |
| <b>at 15 kg/ha</b>                    |  |  |  |  |  | 41  |  | 46       |  | 50        |  | 53                           |  | 43       |  | 48       |  | 50        |  | 61 |  | 47 |  | 49 |  | 52 |  |
| <b>at 25 kg/ha</b>                    |  |  |  |  |  | 47  |  | 53       |  | 56        |  | 59                           |  | 49       |  | 56       |  | 62        |  | 72 |  | 58 |  | 60 |  | 68 |  |

Position of casting shovels: completely against direction of the spreading disc.  
 The flow properties of grass seed are greatly affected by external influences such as water content - humidity.  
 The pull of the spreading disc increases as the speed increases.

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# 6 Appendix

## Spreading chart, rodenticide Ratron

### SPALDINGS BROADCASTER

Delivery height: 1.30 m

Status: 08/2005

Check settings with field samples.

| Spreading width             | 3 m        |    |    |    |    | 4 m      |    |    |    |    | 6 m      |    |    |    |    | 9 m        |    |    |    |    | 10 m     |    |    |     |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
|-----------------------------|------------|----|----|----|----|----------|----|----|----|----|----------|----|----|----|----|------------|----|----|----|----|----------|----|----|-----|----|----|----|----|----|----|------------|--|--|--|--|--|--|--|--|--|
|                             | 250 RPM    |    |    |    |    | 300 RPM  |    |    |    |    | 500 RPM  |    |    |    |    | 850 RPM    |    |    |    |    | 1000 RPM |    |    |     |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
| Speed                       | 6          | 8  | 10 | 12 | 15 | 6        | 8  | 10 | 12 | 15 | 6        | 8  | 10 | 12 | 15 | 6          | 8  | 10 | 12 | 15 | 6        | 8  | 10 | 12  | 15 | 6  | 8  | 10 | 15 | 20 |            |  |  |  |  |  |  |  |  |  |
| Slide opening:              |            |    |    |    |    |          |    |    |    |    |          |    |    |    |    |            |    |    |    |    |          |    |    |     |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
| at 3 kg/ha                  | 30         | 31 | 32 | 33 | 28 | 31       | 32 | 33 | 34 | 29 | 32       | 33 | 34 | 35 | 30 | 33         | 35 | 36 | 38 | 32 | 34       | 36 | 37 | 39  | 34 | 36 | 38 | 39 | 41 | 40 | 46         |  |  |  |  |  |  |  |  |  |
| at 6 kg/ha                  | 30         | 33 | 35 | 37 | 38 | 31       | 34 | 36 | 39 | 42 | 33       | 35 | 37 | 41 | 43 | 35         | 39 | 41 | 44 | 49 | 36       | 41 | 44 | 49  | 36 | 41 | 44 | 49 | 36 | 41 | 52         |  |  |  |  |  |  |  |  |  |
| at 9 kg/ha                  | 32         | 37 | 38 | 39 | 41 | 35       | 40 | 42 | 44 | 46 | 38       | 41 | 44 | 46 | 48 | 42         | 44 | 48 | 51 | 54 | 44       | 47 | 51 | 59  | 47 | 51 | 59 | 71 |    |    |            |  |  |  |  |  |  |  |  |  |
| at 12 kg/ha                 | 35         | 39 | 40 | 42 | 43 | 38       | 43 | 45 | 47 | 49 | 42       | 45 | 47 | 49 | 53 | 45         | 49 | 50 | 53 | 58 | 48       | 53 | 55 | 63  | 51 | 63 | 81 |    |    |    |            |  |  |  |  |  |  |  |  |  |
| at 25 kg/ha                 | 41         | 45 | 49 | 53 | 59 | 48       | 53 | 58 | 63 | 70 | 56       | 57 | 61 | 66 | 73 | 63         | 71 | 79 | 86 | 97 | 65       | 75 | 82 | 100 |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
| Position of casting shovels | on scale 5 |    |    |    |    |          |    |    |    |    |          |    |    |    |    | on scale 4 |    |    |    |    |          |    |    |     |    |    |    |    |    |    | on scale 5 |  |  |  |  |  |  |  |  |  |
| Spreading width             | 12 m       |    |    |    |    | 15 m     |    |    |    |    | 18 m     |    |    |    |    | 21 m       |    |    |    |    | 24 m     |    |    |     |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
| Speed                       | 1200 RPM   |    |    |    |    | 1700 RPM |    |    |    |    | 1900 RPM |    |    |    |    | 2400 RPM   |    |    |    |    | 2650 RPM |    |    |     |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
| km/h                        | 6          | 8  | 10 | 15 | 20 | 6        | 8  | 10 | 15 | 20 | 6        | 8  | 10 | 15 | 20 | 6          | 8  | 10 | 15 | 20 | 6        | 8  | 10 | 15  | 20 | 6  | 8  | 10 | 15 | 20 |            |  |  |  |  |  |  |  |  |  |
| Slide opening:              |            |    |    |    |    |          |    |    |    |    |          |    |    |    |    |            |    |    |    |    |          |    |    |     |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
| at 3 kg/ha                  | 33         | 35 | 37 | 42 | 47 | 34       | 36 | 38 | 43 | 48 | 35       | 37 | 39 | 44 | 49 | 36         | 38 | 41 | 45 | 50 | 37       | 39 | 44 | 47  | 51 | 37 | 39 | 44 | 47 | 51 |            |  |  |  |  |  |  |  |  |  |
| at 6 kg/ha                  | 37         | 42 | 46 | 54 | 62 | 38       | 43 | 48 | 55 | 63 | 40       | 44 | 49 | 57 | 65 | 41         | 45 | 50 | 58 | 66 | 43       | 47 | 51 | 59  | 63 | 43 | 47 | 51 | 59 | 63 |            |  |  |  |  |  |  |  |  |  |
| at 9 kg/ha                  | 45         | 50 | 54 | 64 | 75 | 46       | 51 | 55 | 67 | 78 | 47       | 52 | 57 | 70 | 81 | 48         | 53 | 58 | 71 | 83 | 49       | 55 | 63 |     |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
| at 12 kg/ha                 | 49         | 56 | 59 | 68 | 85 | 50       | 57 | 63 | 74 | 88 | 51       | 59 | 65 | 79 | 93 | 52         | 60 | 66 | 84 |    |          |    |    |     |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
| at 25 kg/ha                 | 68         | 79 | 86 |    |    | 69       | 81 | 90 |    |    | 74       | 86 | 97 |    |    | 59         | 68 | 75 |    |    | 61       | 71 |    |     |    |    |    |    |    |    |            |  |  |  |  |  |  |  |  |  |
| Position of casting shovels | on scale 5 |    |    |    |    |          |    |    |    |    |          |    |    |    |    | on scale 4 |    |    |    |    |          |    |    |     |    |    |    |    |    |    | on scale 5 |  |  |  |  |  |  |  |  |  |

For large spreading widths, wind speed should be noted to avoid incorrect spreading.

At lower delivery heights, the speed of the disc must be increased.

The speed may decrease at upper spreading width. Please shorten stirring shaft by half.



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# 6 Appendix

## Spreading chart, Mesurol slug pellets SPALDINGS BROADCASTER

| Delivery height: 1.30 m     |  | Status 08/2003 |    |    |    |    |                |    |    |    |    | Check settings with field samples. |    |    |    |    |                   |    |    |    |    |                |    |    |    |    |   |    |    |    |    |
|-----------------------------|--|----------------|----|----|----|----|----------------|----|----|----|----|------------------------------------|----|----|----|----|-------------------|----|----|----|----|----------------|----|----|----|----|---|----|----|----|----|
| Spreading width             |  | 3 m            |    |    |    |    | 4 m            |    |    |    |    | 6 m                                |    |    |    |    | 9 m               |    |    |    |    | 10 m           |    |    |    |    |   |    |    |    |    |
| Speed                       |  | 300 RPM        |    |    |    |    | 400 RPM        |    |    |    |    | 500 RPM                            |    |    |    |    | 750 RPM           |    |    |    |    | 850 RPM        |    |    |    |    |   |    |    |    |    |
| km/h                        |  | 6              | 8  | 10 | 12 | 15 | 6              | 8  | 10 | 12 | 15 | 6                                  | 8  | 10 | 12 | 15 | 6                 | 8  | 10 | 12 | 15 | 6              | 8  | 10 | 12 | 15 | 8 | 10 | 12 | 15 | 20 |
| Slide opening:              |  | 21 23 25 27 29 |    |    |    |    | 20 22 24 26 28 |    |    |    |    | 20 23 24 27 28                     |    |    |    |    | 21 23 24 26 28    |    |    |    |    | 22 23 25 28 33 |    |    |    |    |   |    |    |    |    |
| at 3 kg/ha                  |  | 21 23 25 27 29 |    |    |    |    | 21 23 26 28 29 |    |    |    |    | 21 24 27 28 30                     |    |    |    |    | 22 24 27 30 31    |    |    |    |    | 25 26 28 31 36 |    |    |    |    |   |    |    |    |    |
| at 5 kg/ha                  |  | Hole 2.5       |    |    |    |    | Hole 2.5       |    |    |    |    | Hole 2.5                           |    |    |    |    | Hole 2.5          |    |    |    |    | Hole 2.5       |    |    |    |    |   |    |    |    |    |
| Position of casting shovels |  | Hole 2.5       |    |    |    |    | Hole 2.5       |    |    |    |    | Hole 2.5                           |    |    |    |    | Hole 2.5          |    |    |    |    | Hole 2.5       |    |    |    |    |   |    |    |    |    |
| Spreading width             |  | 12 m           |    |    |    |    | 15 m           |    |    |    |    | 18 m                               |    |    |    |    | 21 m              |    |    |    |    | 24 m           |    |    |    |    |   |    |    |    |    |
| Speed                       |  | 1000 RPM       |    |    |    |    | 1800 RPM       |    |    |    |    | 2300 RPM                           |    |    |    |    | 2500 RPM          |    |    |    |    | 2700 RPM       |    |    |    |    |   |    |    |    |    |
| km/h                        |  | 8              | 10 | 12 | 15 | 20 | 8              | 10 | 12 | 15 | 20 | 8                                  | 10 | 12 | 15 | 20 | 8                 | 10 | 12 | 15 | 20 | 8              | 10 | 12 | 15 | 20 | 8 | 10 | 12 | 15 | 20 |
| Slide opening:              |  |                |    |    |    |    |                |    |    |    |    |                                    |    |    |    |    |                   |    |    |    |    |                |    |    |    |    |   |    |    |    |    |
| at 3 kg/ha                  |  | 23 24 26 29 33 |    |    |    |    | 23 25 28 30 34 |    |    |    |    | 23 25 28 30 35 23                  |    |    |    |    | 23 25 28 31 36 24 |    |    |    |    | 25 29 32 36    |    |    |    |    |   |    |    |    |    |
| at 5 kg/ha                  |  | 26 27 28 31 39 |    |    |    |    | 27 30 32 37 41 |    |    |    |    | 28 31 34 39 42                     |    |    |    |    | 28 32 36 41 43    |    |    |    |    | 30 33 37 44 45 |    |    |    |    |   |    |    |    |    |
| Position of casting shovels |  | Hole 3         |    |    |    |    | Hole 3         |    |    |    |    | Hole 3                             |    |    |    |    | Hole 3            |    |    |    |    | Hole 3         |    |    |    |    |   |    |    |    |    |




For large spreading widths, note wind speed to avoid incorrect spreading.  
 At lower delivery heights, the speed of the disc must be increased.  
 If side distribution is uneven, adjust casting shovels.  
 The speed may decrease at upper spreading width. Please shorten stirring shaft by half.

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# 6 Appendix

| <b>SPALDINGS BROADCASTER</b>                 |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|--|----------|----|----------|----|---|----|----------|----|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>Spreading chart, METAREX slug pellets</b> |  |          |    |          |    | <b>Check settings with field samples.</b> |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Status: 11/2004                              |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Delivery height: 1.30 m                      |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Spreading width                              |  | 3 m      |    | 4 m      |    | 6 m                                       |    | 9 m      |    | 10 m     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed  |  | 250 RPM  |    | 350 RPM  |    | 400 RPM                                   |    | 600 RPM  |    | 750 RPM  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| km/h   |  | 6        | 8  | 10       | 12 | 15  | 6  | 8        | 10 | 12       | 15 | 6  | 8  | 10 | 12 | 15 | 20 |    |    |    |    |    |    |    |    |    |
| Slide opening:                               |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| at 3 kg/ha                                   |  | 22       | 24 | 26       | 23 | 24  | 27 | 22       | 24 | 25       | 28 | 22 | 23 | 25 | 26 | 29 | 24 | 26 | 27 | 30 | 31 |    |    |    |    |    |
| at 5 kg/ha                                   |  | 23       | 24 | 25       | 27 | 29  | 24 | 25       | 26 | 28       | 30 | 25 | 26 | 27 | 28 | 31 | 26 | 27 | 28 | 29 | 32 | 27 | 28 | 29 | 33 | 34 |
| at 7 kg/ha                                   |  | 25       | 26 | 27       | 29 | 31  | 26 | 27       | 28 | 31       | 33 | 27 | 28 | 29 | 32 | 34 | 28 | 29 | 30 | 32 | 35 | 30 | 31 | 34 | 36 | 37 |
| Position of casting shovels on scale 2,5     |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| on scale 2,5                                 |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| on scale 2,5                                 |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| on scale 2,5                                 |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Spreading width                              |  | 12 m     |    | 15 m     |    | 18 m                                      |    | 21 m     |    | 24 m     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Speed  |  | 1000 RPM |    | 1700 RPM |    | 2500 RPM                                  |    | 2650 RPM |    | 2800 RPM |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| km/h   |  | 8        | 10 | 12       | 15 | 20  | 8  | 10       | 12 | 15       | 20 | 8  | 10 | 12 | 15 | 20 | 8  | 10 | 12 | 15 | 20 |    |    |    |    |    |
| Slide opening:                               |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| at 3 kg/ha                                   |  | 25       | 27 | 28       | 31 | 34  | 26 | 28       | 29 | 32       | 35 | 27 | 29 | 30 | 33 | 36 | 28 | 30 | 32 | 36 | 38 | 30 | 32 | 34 | 38 | 41 |
| at 5 kg/ha                                   |  | 28       | 29 | 32       | 33 | 36  | 28 | 30       | 33 | 34       | 38 | 30 | 31 | 35 | 36 | 39 | 31 | 32 | 36 | 37 | 42 | 33 | 34 | 38 | 42 | 45 |
| at 7 kg/ha                                   |  | 31       | 32 | 35       | 40 | 42  | 32 | 33       | 37 | 41       | 43 | 33 | 34 | 39 | 42 | 46 | 34 | 35 | 40 | 43 | 51 | 35 | 38 | 42 | 45 | 53 |
| Position of casting shovels on scale 2       |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| on scale 2                                   |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| on scale 2                                   |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| on scale 2                                   |  |          |    |          |    |   |    |          |    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |



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For large spreading widths, wind speed should be noted to avoid incorrect spreading.  
 At lower delivery heights, the speed of the disc must be increased.  
 If side distribution is uneven, adjust casting shovels.



# 6 Appendix

| Spreading chart, Clartext blue slug pellets |              |    |          |              |    |                |              |    |          |              |    |                                    | SPALDINGS BROADCASTER |    |    |  |  |  |  |  |  |  |  |  |
|---|--------------|----|----------|--------------|----|----------------|--------------|----|----------|--------------|----|------------------------------------|-----------------------|----|----|--|--|--|--|--|--|--|--|--|
| Delivery height: 1.30 m                     |              |    |          |              |    | Status 08/2005 |              |    |          |              |    | Check settings with field samples. |                       |    |    |  |  |  |  |  |  |  |  |  |
| 3 m   |              |    | 4 m      |              |    | 6 m            |              |    | 9 m      |              |    | 10 m                               |                       |    |    |  |  |  |  |  |  |  |  |  |
| 250 RPM                                     |              |    | 350 RPM  |              |    | 400 RPM        |              |    | 600 RPM  |              |    | 750 RPM                            |                       |    |    |  |  |  |  |  |  |  |  |  |
| km/h  | 6            | 8  | 10       | 12           | 15 | 6              | 8            | 10 | 12       | 15           | 6  | 8                                  | 10                    | 12 | 15 |  |  |  |  |  |  |  |  |  |
| Slide opening:                              |              |    |          |              |    |                |              |    |          |              |    |                                    |                       |    |    |  |  |  |  |  |  |  |  |  |
| at 3 kg/ha                                  | 23           | 24 | 26       | 24           | 25 | 28             | 24           | 26 | 27       | 30           | 25 | 26                                 | 28                    | 29 | 32 |  |  |  |  |  |  |  |  |  |
| at 5 kg/ha                                  | 23           | 24 | 25       | 27           | 29 | 31             | 27           | 28 | 29       | 30           | 33 | 29                                 | 30                    | 31 | 32 |  |  |  |  |  |  |  |  |  |
| at 7 kg/ha                                  | 25           | 26 | 27       | 29           | 31 | 34             | 29           | 30 | 31       | 34           | 36 | 31                                 | 32                    | 33 | 35 |  |  |  |  |  |  |  |  |  |
| Position of casting shovels                 | on scale 2.5 |    |          | on scale 2.5 |    |                | on scale 2.5 |    |          | on scale 2.5 |    |                                    | on scale 2.5          |    |    |  |  |  |  |  |  |  |  |  |
|   |              |    |          |              |    |                |              |    |          |              |    |                                    |                       |    |    |  |  |  |  |  |  |  |  |  |
| 12 m  |              |    | 15 m     |              |    | 18 m           |              |    | 21 m     |              |    | 24 m                               |                       |    |    |  |  |  |  |  |  |  |  |  |
| 1000 RPM                                    |              |    | 1700 RPM |              |    | 2500 RPM       |              |    | 2650 RPM |              |    | 2800 RPM                           |                       |    |    |  |  |  |  |  |  |  |  |  |
| km/h  | 8            | 10 | 12       | 15           | 20 | 8              | 10           | 12 | 15       | 20           | 8  | 10                                 | 12                    | 15 | 20 |  |  |  |  |  |  |  |  |  |
| Slide opening:                              |              |    |          |              |    |                |              |    |          |              |    |                                    |                       |    |    |  |  |  |  |  |  |  |  |  |
| at 3 kg/ha                                  | 29           | 31 | 32       | 35           | 38 | 30             | 32           | 33 | 36       | 39           | 31 | 33                                 | 34                    | 37 | 40 |  |  |  |  |  |  |  |  |  |
| at 5 kg/ha                                  | 32           | 33 | 36       | 37           | 40 | 33             | 34           | 37 | 38       | 42           | 34 | 35                                 | 39                    | 40 | 43 |  |  |  |  |  |  |  |  |  |
| at 7 kg/ha                                  | 35           | 36 | 39       | 44           | 46 | 36             | 37           | 41 | 45       | 48           | 37 | 38                                 | 43                    | 46 | 50 |  |  |  |  |  |  |  |  |  |
| Position of casting shovels                 | on scale 2   |    |          | on scale 2   |    |                | on scale 2   |    |          | on scale 2   |    |                                    | on scale 2            |    |    |  |  |  |  |  |  |  |  |  |



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For large spreading widths, wind speed should be noted to avoid incorrect spreading.  
 At lower delivery heights, the speed of the disc must be increased.  
 If side distribution is uneven, adjust casting shovels.

# 6 Appendix

## Spreading chart, DELICIA snail pellets

## SPALDINGS BROADCASTER

Delivery height: 1.30 m

Status 08/2005

Check settings with field samples.

| Spreading width             | 3 m                         | 4 m                         | 6 m                         | 9 m                         |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| RPM                         | 350 RPM                     | 450 RPM                     | 550 RPM                     | 920 RPM                     |
| Speed                       | 6   8   10   12   15   20   | 6   8   10   12   15   20   | 6   8   10   12   15   20   | 6   8   10   12   15   20   |
| Slide opening<br>at 3 kg/ha | 23   24   25   26           | 23   25   26   27   28      | 24   26   27   28   29   32 | 24   27   28   29   31   34 |
| Position of casting shovels | on scale 3.0                | on scale 4.0                | on scale 4.0                | on scale 4.0                |
| Spreading width             | 10 m                        | 12 m                        | 15 m                        | 21 m                        |
| RPM                         | 1000 RPM                    | 1350 RPM                    | 1900 RPM                    | 3000 RPM                    |
| Speed                       | 6   8   10   12   15   20   | 6   8   10   12   15   20   | 6   8   10   12   15   20   | 6   8   10   12   15   20   |
| Slide opening<br>at 3 kg/ha | 25   28   29   31   33   38 | 24   27   29   30   33   38 | 24   27   29   30   33   37 | 24   26   29   31   34   39 |
| Position of casting shovels | on scale 4.0                | on scale 4.0                | on scale 4.0                | on scale 4.0                |



For large spreading widths, wind speed should be noted to avoid incorrect spreading.  
At lower delivery heights, the speed of the disc must be increased.  
If side distribution is uneven, adjust casting shovels.

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# 6 Appendix

## Spreading chart, Castile

### SPALDINGS BROADCASTER

Delivery height: 1,00 m      Status: 09/2009

Check settings with field samples.

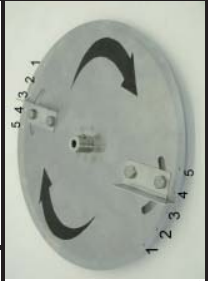
| Spreading width              | 2,5 m   |    |    |    |  | 3,00 m   |    |    |    |  | 4,00 m   |    |    |    |  | 4,70 m   |    |    |    |  |
|------------------------------|---------|----|----|----|--|----------|----|----|----|--|----------|----|----|----|--|----------|----|----|----|--|
|                              | 350 RPM |    |    |    |  | 400 RPM  |    |    |    |  | 450 RPM  |    |    |    |  | 510 RPM  |    |    |    |  |
| Speed RPM                    | 6       | 8  | 10 | 12 |  | 6        | 8  | 10 | 12 |  | 6        | 8  | 10 | 12 |  | 6        | 8  | 10 | 12 |  |
| km/h                         |         |    |    |    |  |          |    |    |    |  |          |    |    |    |  |          |    |    |    |  |
| Slide opening:               |         |    |    |    |  |          |    |    |    |  |          |    |    |    |  |          |    |    |    |  |
| at 8 kg/ha                   | 17      | 19 | 21 | 23 |  | 18       | 20 | 22 | 24 |  | 20       | 23 | 25 | 26 |  | 21       | 24 | 26 | 27 |  |
| at 10 kg/ha                  | 18      | 21 | 23 | 25 |  | 19       | 23 | 25 | 26 |  | 22       | 25 | 27 | 29 |  | 23       | 26 | 28 | 30 |  |
| at 12 kg/ha                  | 20      | 23 | 25 | 27 |  | 21       | 25 | 26 | 28 |  | 24       | 27 | 29 | 31 |  | 25       | 28 | 30 | 34 |  |
| at 15 kg/ha                  | 22      | 25 | 27 | 30 |  | 24       | 26 | 28 | 31 |  | 26       | 29 | 32 | 36 |  | 27       | 30 | 34 | 38 |  |
| at 20 kg/ha                  | 25      | 28 | 32 | 35 |  | 26       | 29 | 34 | 37 |  | 29       | 34 | 38 | 41 |  | 30       | 35 | 40 | 44 |  |
| at 25 kg/ha                  | 27      | 32 | 36 | 39 |  | 28       | 34 | 38 | 41 |  | 31       | 38 | 43 | 47 |  | 34       | 39 | 46 | 50 |  |
| Position of casting shovels: | Hole 5  |    |    |    |  | Hole 5   |    |    |    |  | Hole 5   |    |    |    |  | Hole 5   |    |    |    |  |
| Spreading width              | 6,00 m  |    |    |    |  | 9,00 m   |    |    |    |  | 12,00 m  |    |    |    |  | 15,00 m  |    |    |    |  |
| Speed RPM                    | 650 RPM |    |    |    |  | 1050 RPM |    |    |    |  | 1400 RPM |    |    |    |  | 2450 RPM |    |    |    |  |
| km/h                         | 6       | 8  | 10 | 12 |  | 6        | 8  | 10 | 12 |  | 8        | 10 | 15 | 20 |  | 8        | 10 | 15 | 20 |  |
| Slide opening:               |         |    |    |    |  |          |    |    |    |  |          |    |    |    |  |          |    |    |    |  |
| at 8 kg/ha                   | 22      | 25 | 27 | 28 |  | 23       | 26 | 29 | 33 |  | 28       | 32 | 41 | 48 |  | 29       | 31 | 40 | 48 |  |
| at 10 kg/ha                  | 24      | 27 | 30 | 33 |  | 25       | 29 | 33 | 37 |  | 32       | 36 | 46 | 55 |  | 31       | 35 | 46 | 57 |  |
| at 12 kg/ha                  | 26      | 29 | 34 | 36 |  | 27       | 32 | 37 | 41 |  | 36       | 41 | 51 | 63 |  | 35       | 39 | 53 | 66 |  |
| at 15 kg/ha                  | 29      | 33 | 37 | 42 |  | 31       | 37 | 42 | 46 |  | 41       | 47 | 60 | 74 |  | 39       | 46 | 62 | 81 |  |
| at 20 kg/ha                  | 33      | 39 | 44 | 48 |  | 37       | 43 | 52 | 56 |  | 48       | 57 | 74 | 89 |  | 48       | 57 | 81 |    |  |
| at 25 kg/ha                  | 37      | 44 | 49 | 53 |  | 42       | 48 | 58 | 64 |  | 57       | 65 | 85 |    |  | 57       | 69 | 99 |    |  |
| Position of casting shovels: | Hole 5  |    |    |    |  | Hole 5   |    |    |    |  | Hole 5   |    |    |    |  | Hole 5   |    |    |    |  |

At a lower delivery heights, the speed of the disc must be increased.

The speed may decrease at upper spreading width. Please shorten stirring shaft by half.

If there's an uneven spreading, please change the position of the casting shovels.

The pull of the spreading disc increases as the speed increases.



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# 6 Appendix

## Spreading chart Rape

Delivery height: 1,00 m

## SPALDINGS Broadcaster

Please check the tables at a field test!!

| Spreading width<br>RPM | 2,5 m   |    |    | 3,00 m  |    |    | 4,00 m   |    |    | 4,70 m   |    |    |
|------------------------|---------|----|----|---------|----|----|----------|----|----|----------|----|----|
|                        | 6       | 8  | 10 | 12      | 6  | 8  | 10       | 12 | 6  | 8        | 10 | 12 |
| Slide opening:         |         |    |    |         |    |    |          |    |    |          |    |    |
| 6 kg/ha                | 18      | 19 | 20 | 21      | 17 | 19 | 21       | 23 | 18 | 20       | 23 | 24 |
| 8 kg/ha                | 20      | 21 | 23 | 24      | 19 | 21 | 23       | 24 | 20 | 23       | 26 | 27 |
| 10 kg/ha               | 17      | 19 | 22 | 23      | 18 | 21 | 23       | 24 | 20 | 23       | 26 | 28 |
| 12 kg/ha               | 19      | 21 | 23 | 24      | 20 | 23 | 25       | 28 | 23 | 26       | 28 | 31 |
| Spreading width<br>RPM | 6,00 m  |    |    | 9,00 m  |    |    | 12,00 m  |    |    | 15,00 m  |    |    |
|                        | 600 rpm |    |    | 980 rpm |    |    | 1300 rpm |    |    | 2300 rpm |    |    |
| 6 kg/ha                | 6       | 8  | 10 | 12      | 6  | 8  | 10       | 12 | 8  | 10       | 15 | 20 |
| Slide opening:         |         |    |    |         |    |    |          |    |    |          |    |    |
| 6 kg/ha                | 20      | 23 | 26 | 28      | 24 | 27 | 29       | 32 | 30 | 33       | 42 |    |
| 8 kg/ha                | 23      | 26 | 28 | 30      | 27 | 29 | 31       | 34 | 32 | 38       | 50 |    |
| 10 kg/ha               | 26      | 28 | 30 | 32      | 29 | 31 | 33       | 36 | 34 | 43       | 58 |    |
| 12 kg/ha               | 28      | 30 | 32 | 34      | 31 | 33 | 35       | 48 | 36 | 48       | 66 |    |

Position casting shovels between 2 - 3  
If side distribution is uneven, adjust casting shovels.  
The speed may decrease at upper spreading width. Please short stirring shaft by half.

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