

LEHNER



AgroDos®

Operating instructions with parts list

Controller LAS PSM

Software from Version 1.1 onwards

Status: September 2012

Serial number:

Software version:

Translation of original operating instructions

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1. What you should know

1.1 Foreword

Thank you for placing your trust in us. We congratulate you on your decision. With the **AgroDos®**, 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 equipment meets all efficiency, quality, reliability and value requirements.

The **AgroDos®** has been registered with the Julius Kühn Institute for application of pesticide, and has been entered in the corresponding register.

Maintaining and servicing in accordance with the operating instructions ensures the safety of the device and maintains the value of your **AgroDos®**.




1.2 About these operating instructions

This operating manual forms part of the **AgroDos®** and must always be readily available. All persons who work with the **AgroDos®** must read and follow the operating manual.

They will learn about the technical details and how to control the machine and optimise its performance.

Warning notices

Warning notices in these operating instructions are identified as follows:

	<p>Danger!</p> <p>Warning against immediate danger. Non-observance of appropriate measures may result in death and severe personal injury or serious damage to property.</p>
	<p>Warning!</p> <p>Warning of possible danger. Death, severe personal injury or serious damage to property are possible.</p>
	<p>Caution!</p> <p>Warning of possible dangerous situations. Slight personal injury or damage to property is possible.</p>

**Important!**

For application instructions and other useful information.

1.3 Intended use

The **AgroDos®** is exclusively intended for applying granulated pesticides, granulated fertilizer or seed.

The spreader is only allowed to be used within the scope of its designated use. The output rate is between 4 and 40 kg/ha.

Special rotary feeders are available if different output rates are required. In this regard, please contact the product specialists at Lehner.

1.4 Designated use

The spreader consists of a frame, hopper (capacity 12, 22 or 70 litres, depending on variant), dosing device with two rotary feeder valves (standard 5.9 cm³/revolution), electronic control panel and drive motor.

Additional equipment: Two fishtails for applying GOLDOR BAIT.

Comply with the application regulations of the spreading material manufacturers with regard to other pesticides or fertilizers.

At the time of manufacture, we are not aware of any negative effects from the seed, the pesticide or the fertilizer on the materials of the spreader.

1.5 Warranty

We offer a 24 month warranty on the **AgroDos®**.



Caution!

Danger of short circuit

Faulty or incorrectly sized plugs and cables can lead to malfunctions. Only use original plugs and cables, or ones approved by the manufacturer.

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

Warranty repairs must be coordinated with the manufacturer 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.

On receipt:

Check your **AgroDos®** upon receipt for any damage caused in transit. Any such damage must be reported to the manufacturer within 24 hours of receipt.

1.6 About your safety

- Carefully read and observe these operating instructions before use. Always keep these instructions to hand at the point of use.
- Observe the accident prevention regulations, safety and operating regulations and the regulations for environmental protection.
- Observe all applicable standards and guidelines.
- Observe the safety instructions in these operating instructions.
- Wear appropriate working and protective clothing.
- Disconnect the electrical power supply for maintenance work.
- Do not start up the **AgroDos®** if it has any safety-related deficiencies. Immediately resolve any safety-related deficiencies.
- Keep out of the spreading zone. Make sure that no other persons or animals are in the spreading zone.
- Do not touch the container during operation.
- Disconnect the mains plug before repair, maintenance and cleaning work on the **AgroDos®**.
- Comply with the safety instructions on the pesticide or fertilizer that you are using.
- Comply with the regulations of the spreading material manufacturer.
- It is essential to comply with the instructions of the spreading material manufacturer in question.
- Spreading tables and additional information about the spreading material used can be requested from the spreading material manufacturer in question.
- During all working procedures, make sure that no pesticide is spilled onto the ground.
- After completing work, always perform a complete residual discharge of the spreader.
- Lehner Agrar GmbH declines any liability for storage and application of the spreading material.

1.7 Technical data of AgroDOS®

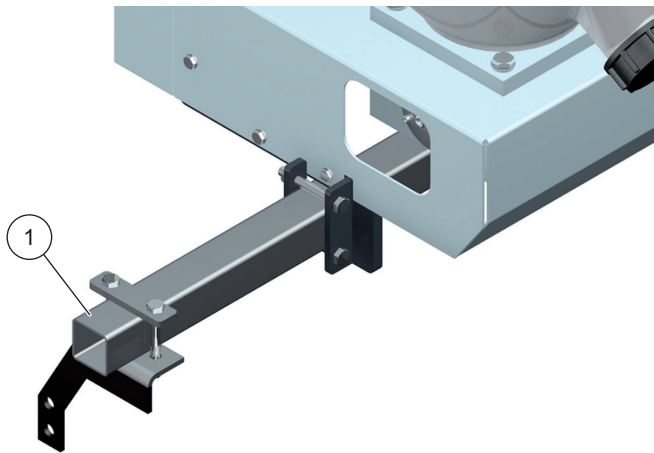
	AgroDos® 12 litre variant	AgroDos® 22 litre variant	AgroDos® 70 litre variant
Length [mm]	462 mm	425 mm	554 mm
Width [mm]	250	300 mm	489 mm
Height [mm]	480 mm	535 mm	788 mm
Weight, empty [kg]	10 kg	11 kg	22 kg
Weight, full [kg]	approx. 20 kg	approx. 30 kg	approx. 80 kg
Standard drive	Straight drive	Bevel drive	Bevel drive
Drive variant	Bevel drive		

2. Taking AgroDos® into operation

2.1 Preparing the implement holder

The implement holder is specifically dependent upon the carrier vehicle provided, and must be adapted to its conditions. As a result, the implement holder is not supplied.

Implement holder for AgroDos®



For the **AgroDos®** 12 litre and 22 litre variants, we recommend using a square-profile tube **(1)** with dimensions 30 x 30 x 3 mm as the implement holder.

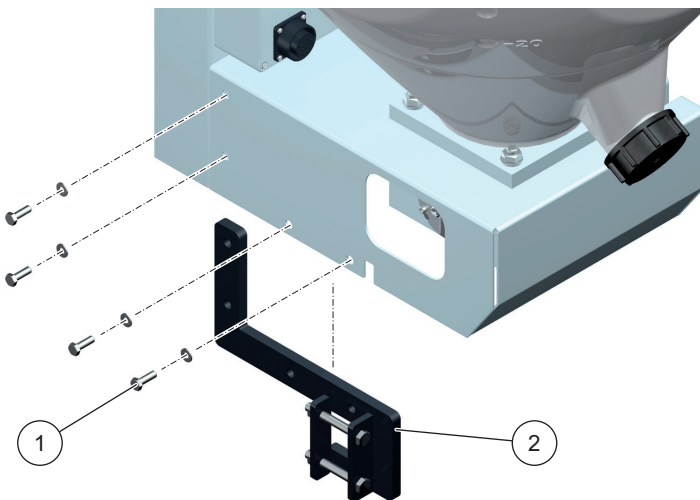
For the **AgroDos®** 70 litre, we recommend using a square-profile tube **(1)** with dimensions 40 x 40 x 3 mm as the implement holder.

2.2 Mounting AgroDos®

On the **AgroDos®** 12 litre and 22 litre variants, the holders for attaching to the square-profile tube are pre-installed on the supplied unit. The holder for the **AgroDos®** 70 litre variant is installed as described below.

AgroDos® 70 litre variant

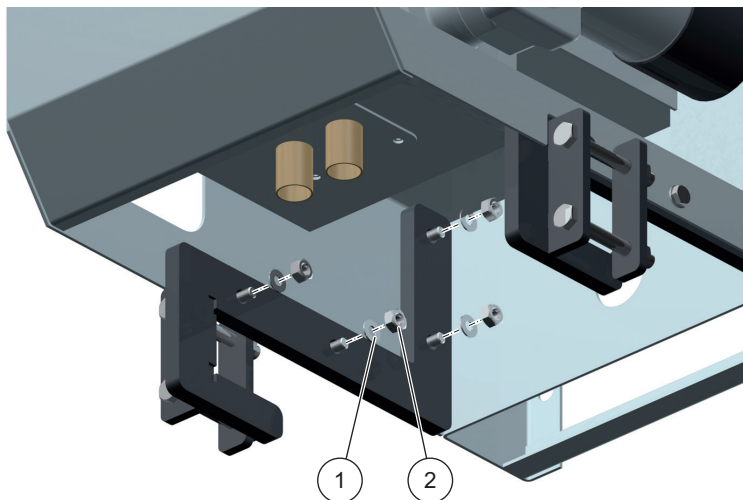
1. Positioning the holder



Attach the holder **(2)** on **AgroDos®** from the inside with screws **(1)** (M8x30 8.8).

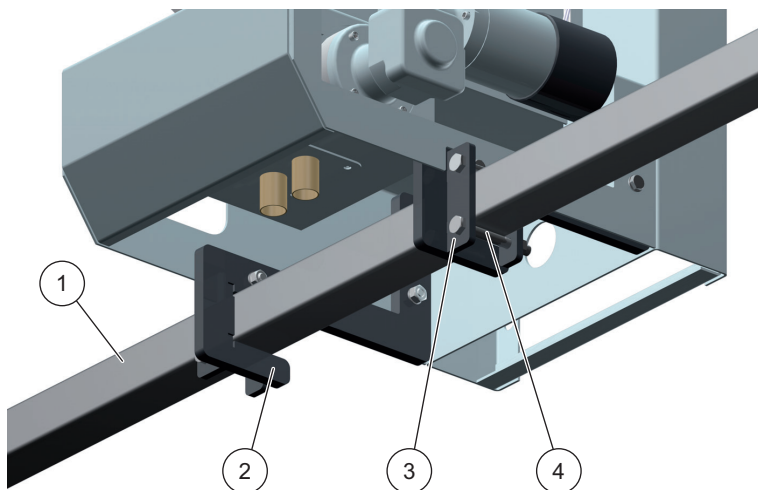
Push screws **(1)** from the outside through the housing.

2. Tightening the holder



Screw self-locking nuts **(2)** with washers **(1)** onto the screws and tighten

3. Installing the spreader



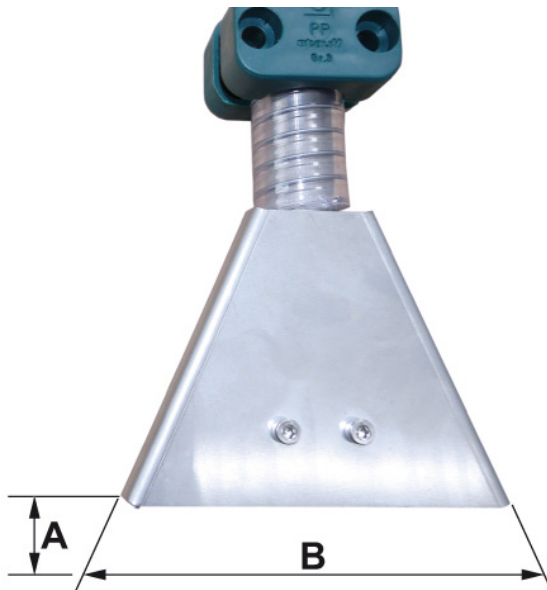
Push the **AgroDos®** spreader onto the prepared implement holder **(1)** on the carrier vehicle.

Screw the spreader onto the holder **(2)** for the spreader using four screws **(4)** (M8x65 8.8) and two backing plates **(3)**.

Check that **AgroDos®** is securely attached and that the container is sitting correctly in the container mounting.

The **AgroDos®** 12 litre and 22 litre variants are mounted in accordance with the 70 litre variant.

2.3 Installing fishtails



Install fishtails so that a mounting height **A** of 4 - 7 cm above the ground is guaranteed during operation. This produces a spreading width **B** of approx. 15 - 20 cm. Please comply with the information from the spreading material manufacturer.

2.4 Installing hoses

Secure the supplied hoses onto the fishtails using hose clamps. Route the hoses as perpendicular as possible to one plant or seed row each.

If it is defined where the spreader will be mounted on the carrier unit, cut the hoses to length accordingly and secure on the hose connection with a hose clamp.

2.5 Electrical connection

Technical data, electrical system

Operating voltage	12 to 15 V
Fuse	25 A
Speed range	20 to 120 rpm
Power consumption of motor	3 A
Operating temperature	-10 to +70 °C
Storage temperature	-30 to +70 °C

Power loss must be taken into account when extending cables. A poor power supply may prevent you from achieving the desired speed. Also, this could lead to intermittent complete failure.

2.6 Operating additional spreaders (electrical connection)



Important!

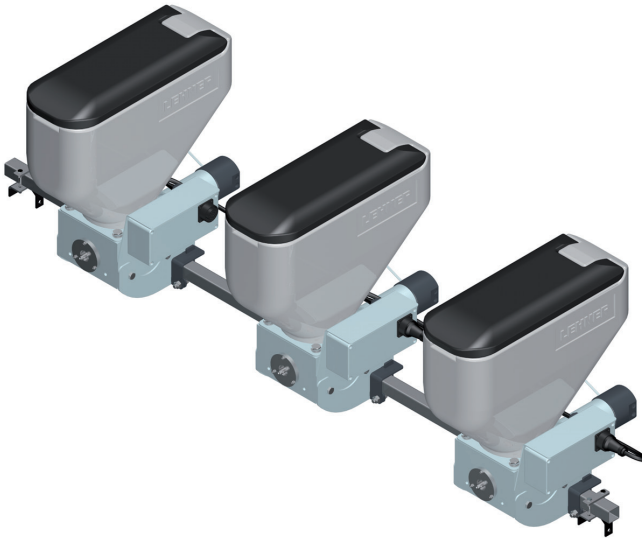
Make sure that only spreaders with equally sized rotary feeders are connected together. Differently sized rotary feeders have different output rates.

It is possible to connect up to 5 **AgroDos®** units together electrically and operate them with one control panel.

The electrical connection is the same on all three **AgroDos®** variants

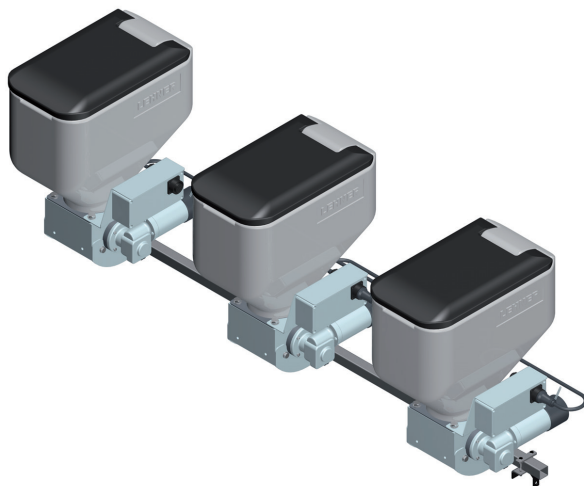
2.6.1 Electrical connection of the AgroDos® 12 litre variant

For the electrical connection, connect the cable of each added spreader to the multi-pin socket of the spreader that has already been mounted.



2.6.2 Electrical connection of the AgroDos® 22 litre variant

See the description of the electrical connection in 2.6.1



2.6.3 Electrical connection of the AgroDos® 70 litre variant

See the description of the electrical connection in 2.6.1



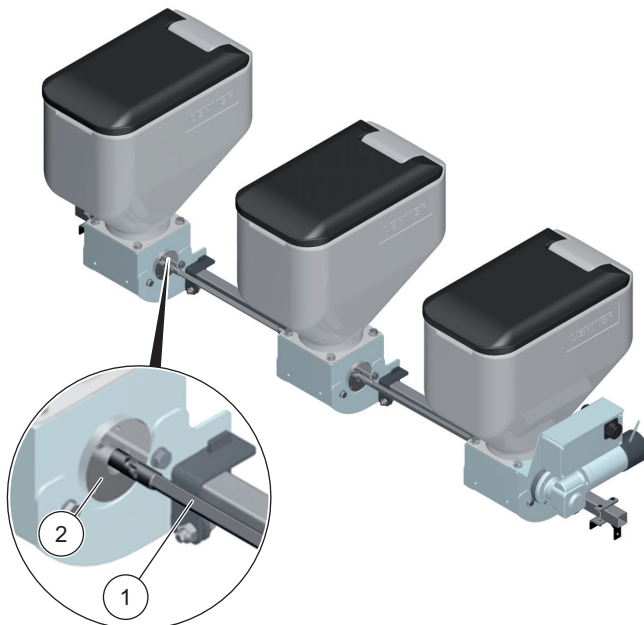
2.7 Operating additional spreaders (mechanical connection)

The design of the individual spreader means that only machines with a bevel drive can be mechanically connected. In the mechanical connection, the electric motor is only allowed to be fitted on the first spreader (see figure). On additional spreaders, the electric motor must be replaced by a coupling flange. For more information, please contact the product specialists at Lehner.

2.7.1 Mechanical connection of the AgroDos® 22 litre variant

For connecting the spreaders, it is first necessary to position them on the square-profile tube and then secure them. Position the driving spreader on the outside with the electric motor pointing outwards. Insert the coupling rod into the flanges between two spreaders by pulling apart. Secure the connecting element with screws in the flanges to prevent them from falling out.

It is possible to connect up to 4 **AgroDos®** units mechanically.

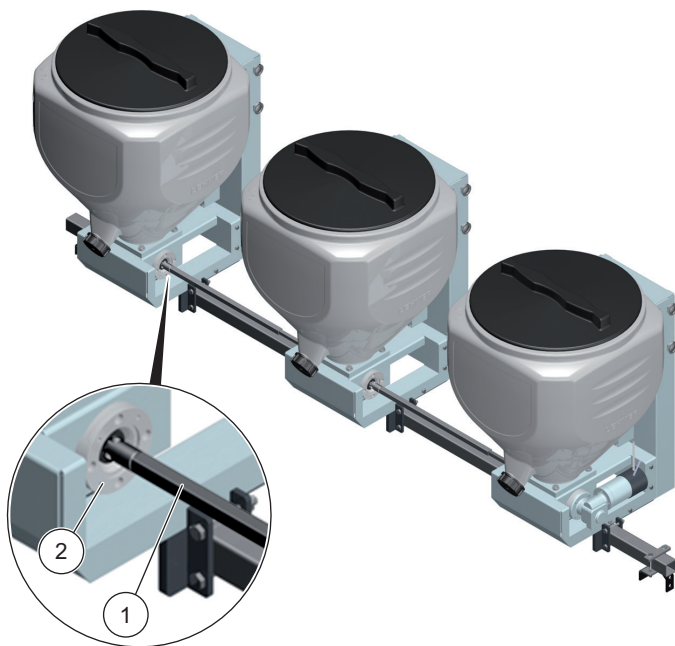


(1) Universal joint shaft

(2) Satellite drive

2.7.2 Mechanical connection of the AgroDos® 70 litre variant

See the description of the mechanical connection in 2.7.1



(1) Universal joint shaft

(2) Satellite drive

3. Operating AgroDos®

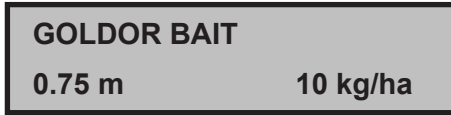
3.1 Controls on the control panel



- 1** Switching on / off
- 2** Display
- 3** Start/stop spreader
 - Green LED lights up: Rotary feeder valve drive motor running
 - Yellow LED lights up: Rotary feeder valve drive motor off
- 4** Switch automatic dosing on and off
- 5** Rotary feeder valve speed and various menu functions
- 6** Toggle switch for menu control by the program

3.2 The display

When EHR connected (operating mode: Automatic dosing)



1. Selected spreading table
2. Distance between plant or seed rows
3. Output rate in kg/ha

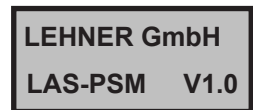
When EHR not connected (operating mode: Manual mode)



1. Manual operating mode
2. Current speed of the rotary feeder valve
3. Dosing OFF: Rotary feeder valve drive motor off
Dosing ON: Rotary feeder valve drive motor running

3.3 Switching on/off

When the control panel is switched on, the versions of the hardware and software are displayed briefly



Press the key.
LED above the key lights up: Spreader is ready for operation and in Automatic dosing operating mode.



3.4 Automatic dosing

In Automatic dosing, the speed of the rotary feeder is calculated according to the following values:

- Speed
- Output rate
- Distance between plant or seed rows
- Calibration value of the spreading material

The calibration value can be stored in a spreading table, see chapter 4.8 Spreading tables and calibration procedure.

The output rate, distance and product can be set directly, see chapter 3.5 Changing settings.

Display with automatic dosing:

The following appears on the display:

- Product name (spreading table used)
- Distance between plant or seed rows
- Output rate

GOLDOR BAIT 0.75 m 10 kg/ha
--

Starting automatic dosing:

Automatic dosing can only be started if electronic lifting gear control (EHR) is connected.



Risk of injury!

Make sure that no-one is in the danger area during operation.



Press the key.

Dosing starts when the speed is faster than 2 km/h and the hydraulics are lowered.

GOLDOR BAIT RFV 80 U 8 km/h
--

Green LED lights up.

Rotary feeder valve drive motor running.

The following is shown in the display:

- Product name (spreading table used)
- Speed of the rotary feeder
- Travel speed

The start key has no function until a travel speed of at least 2 km/h has been reached and the hydraulics have been lowered sufficiently.

An audible signal indicates when dosing has started correctly. Three audible signals indicate there is a fault and dosing has not been started.

Stopping automatic dosing



The spreading procedure can be stopped at any time by pressing the key.

Otherwise, dosing is stopped automatically when the hydraulics are raised or the travel speed is less than 1.5 km/h. The drive motor stops and the rotary feeder is turned back by approx. 25°.



After an automatic interruption, it is necessary to press the start key in order to restart the dosing.

3.5 Changing the setting

The output rate, distance and product can be set directly. A product change is only possible if several products have already been stored. Only the GOLDOR BAIT product is stored in the factory settings. In order to create new products, see 4.8 Spreading tables and calibration procedure.



Press toggle switch. The selected value flashes and can be set. To move to the next item, or to return to operating mode, press the toggle switch again.

GOLDOR BAIT

0.75 m 12.3 kg/ha



Press the +/- keys to switch between the stored products or to change the numerical values.

3.6 Manual mode

In manual mode, the speed of the rotary feeder is set manually.

Setting



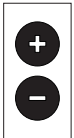
Press the Automatic dosing key
This changes between automatic dosing and manual mode.

Display in manual mode:

The following appears on the display:

- Manual: Manual operating mode
- Speed of the rotary feeder in rpm
- Dosing OFF: Rotary feeder valve drive motor off

Setting the speed



Press the +/- keys to change the speed.

Start dosing

Manual mode cannot be started if electronic lifting gear control (EHR) is connected.



Risk of injury!

The drive motor starts when switching on. Make sure that no-one is in the danger area.



Press the key.
Green LED lights up.
Rotary feeder valve drive motor running.
The following appears on the display:

- Manual: Manual operating mode
- Speed of the rotary feeder in rpm
- Dosing ON: Rotary feeder valve drive motor running.

Manual RFV 42 U
Dosing ON

Stopping dosing



Press the key.
Yellow LED lights up:
The drive motor stops, the rotary feeder is turned back by approx. 25°.

Manual RFV 42 U
Dosing OFF

3.7 Residual discharge



Caution!

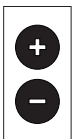
After completing work, always perform a complete residual discharge of the spreader

Even if a visual inspection indicates that the spreader is empty, it can be expected that there will still be approx. 2 litres remaining in the spreader. The residual amount of granulate must be collected in containers with a sufficient capacity. Remove larger amounts through the residual discharge opening (70 litre variant only) on the container. For smaller amounts:



Press the toggle switch twice within one second.

Start emptying?
+ = YES



Press the + key to start the residual discharge.
It is possible to cancel the residual discharge whilst in progress by pressing the + key.
Return to operating mode by pressing the - or **Auto** key.

Stop emptying?
+ = YES

3.8 Error message

Message on the display:

GOLDOR BAIT	xE
0.75m	10.0kg/ha

GOLDOR BAIT	↓E
0.75m	10.0kg/ha

GOLDOR BAIT	↓O
0.75m	10.0kg/ha

GOLDOR BAIT	xR
0.75m	10.0kg/ha

GOLDOR BAIT	xO
0.75m	10.0kg/ha

Explanation:

xE = The 7-pin plug is not connected to the control panel.

↓E = The 7-pin plug is connected to the control panel, but there is no speed signal.
↑

Down arrow = Hydraulics lowered.

Up arrow = Hydraulics raised.

O = **O circulating** = Means that the speed is too slow (slower than 1.5 km/h).

O circulating and flashing = The speed is OK (faster than 1.5 km/h).

xR = **x** = No lifting gear magnetic sensor is connected to the control panel.

R = No wheel sensor is connected to the control panel or wheel sensor plugged in but no signal from the sensor.

xO = **x** = No lifting gear magnetic sensor is connected to the control panel.

O circulating = No signal from the wheel sensor or speed is too slow (slower than 1.5 km/h).

3.9 Troubleshooting

No signal from the wheel sensor	<ul style="list-style-type: none">- Check the distance between the sensor and wheel nuts and set if necessary. Distance should be less than or equal to 4 mm.- Check the wheel sensor/control panel plug connection.- Check the counting points.- Check the cables.
No signal from the lifting gear magnetic sensor	<ul style="list-style-type: none">- Distance between the sensor and magnet too large.- Note the installation direction of the sensor.- Check the cables.
Output rate excessive/insufficient	<ul style="list-style-type: none">- Perform a calibration test, enter the correct value and confirm.

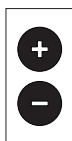
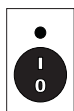
4. Basic settings and displays

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

- Language
- Quantity adaptation
- Calibrating the wheel sensor
- Setting the EHR signal
- Entering the calibration values
- Creating products

4.1 Making settings

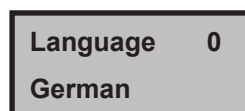
Switch off the machine.



Press the + and - keys at the same time and hold them, thereby switching on the machine.

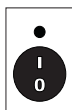
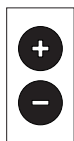
Keep all three keys pressed for about 3 seconds.

The language selection is displayed.

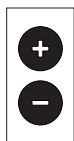
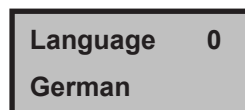


4.2 Language

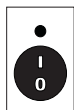
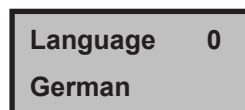
Switch off the machine:



Press the +, - and On/Off keys at the same time.



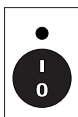
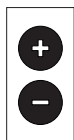
Press the key to set the language.



Use the On/Off key to exit the menu.

4.3 Displaying product lists and deleting products

Switch off the spreader:



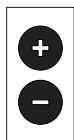
Press the +, - and On/Off keys at the same time.

Language 0
German



Press the toggle switch to call up the product list.

View list
+ = scroll



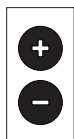
Press the + key to scroll in the list.

GOLDOR BAIT
123 grams/100R



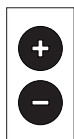
Press the toggle switch again to be able to delete products.

Delete list
+ = scroll



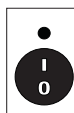
Press the + key to scroll in the list.

Delete list
+ = scroll



Press the - key to delete the displayed product. GOLDOR BAIT cannot be deleted!

Delete list
+ = scroll



Use the On/Off key to exit the menu.

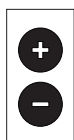
4.4 Quantity adaptation

The spreading value stored in the spreading table can be changed temporarily. This change is not stored when the spreader is switched off.



Press the Automatic dosing key for approx. 5 seconds.

Quantity adaptation
0%



Press the + key to increase the spreading value up to 20 %.
Press the - key to decrease the spreading value up to 20 %.



Press the Automatic dosing key to return to the operating mode.

4.5 Calibrating the wheel sensor

To calibrate the wheel sensor, it is necessary to move a distance of exactly 100 m.



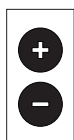
Press the Automatic dosing key for approx. 6 seconds.

Quantity adaptation
0%



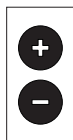
Press the toggle switch once. Confirm with the + key.

Calibrate wheel sensor
+ = YES



Press the + key, the calibration procedure starts.
After moving 100 m, press the - key, the calibration procedure is finished.

Cal run 100 m
+ = Start - = Stop



Press the + key to store the value.

Store 0.12 /m
+ = YES - = NO



Press the Automatic dosing key to return to the operating mode or

Speed pulses wheel
0.12 /m



press the toggle switch to set the EHR signal now.

If both an EHR signal and a wheel sensor signal are being output, the wheel sensor signal always takes priority.

4.6 Setting signal for electronic lifting gear control (EHR)

The spreader is equipped ex-works with EHR signal communication. The hydraulic signal is taken from the 7-pin EHR socket of the tractor or from the sensors attached to the lower link (install magnet with sensor on lower link - option).

Depending on the carrier vehicle, the signal is output on lifting or on lowering. Check the EHR signal is set correctly and correct it if necessary.



Press the Automatic dosing key for approx. 6 seconds.

Quantity adaptation
0%



Press the toggle switch twice.

Calibrate wheel sensor
+ = YES



Press the key to set the EHR signal.

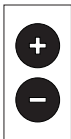
EHR signal for lifting:
High active is displayed

EHR signal for lowering:
Low active is displayed

EHR signal	0
High active	



Press the Automatic dosing key to return to the operating mode or



Press the toggle switch to display the setting for the speed sensor of the EHR signal. Adapt the speed signal with the +/- keys.
Factory setting 130 per min.

Speed pulse EHR
130 /m

4.7 EHR function

When the machine is lifted, the spreader is automatically stopped and the rotary feeder valve turns back 25°. The spreader can be stopped **manually at any time** using the control panel.

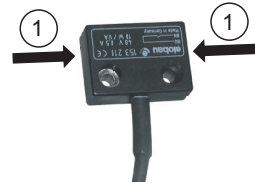
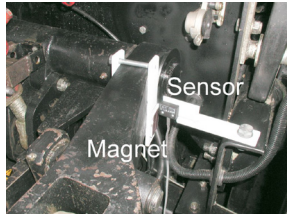
The signal can be detected from a 7-pin socket or a sensor signal.

7-pin socket



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

Sensor signal



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

Hydraulics lowered:

Sensor not in field of magnetic encoder.

Hydraulics at the height where the slide should close or open: Sensor just reaches field of magnetic encoder.

Hydraulics lifted:

Sensor must still be in field of magnetic encoder. When the hydraulics are lifted, the sensor must not leave the field of the magnetic encoder, as otherwise the slide will open again.

Please note that the contact surfaces **(1)** of the sensor are only located on the left and right sides.

4.8 Spreading tables and calibration procedure

Always perform a calibration at the start of a season or after intervals of more than two weeks.

Calibration procedure

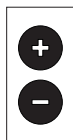
1. Disconnect the plug connection to all other spreaders, the calibration procedure is only allowed to be performed on the basic unit.
2. Place two empty containers under the two hoses of the basic spreader.
3. Start the calibration procedure:



Briefly press the toggle switch twice within one second.
Then press the toggle switch again.

Calibrate start?

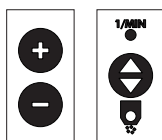
+ = YES



Press the **+** key.
The spreader starts the calibration procedure. The calibration procedure has finished as soon as the spreader stops, and a weight value is shown on the display.

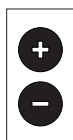
Calibrating....

4. Weigh the spreading material dispensed from **one hose** and input this weight:



Press the **+/-** keys to enter the weighed value and confirm with the toggle switch.

Input result:
123 grams +/-



Press the **+** key to store the value.

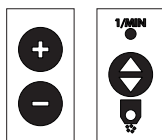
Save 123g
+ = YES - = NO

5. Select the product name/spreading table or create a new one:



Press the **+** key in order to save the entered value in the "GOLDOR BAIT" spreading table.
Press the **-** key in order to save the entered value to a new table.

GOLDOR BAIT
+ = YES - = NO



Press the **+/-** keys to select the letters or numbers and confirm each one with the toggle switch.

New name
AAA



Press the toggle switch twice to save the name in the spreading table.
The program automatically returns to the operating mode.

5. Maintenance and cleaning

5.1 Maintenance

**Warning!****Risk of injury**

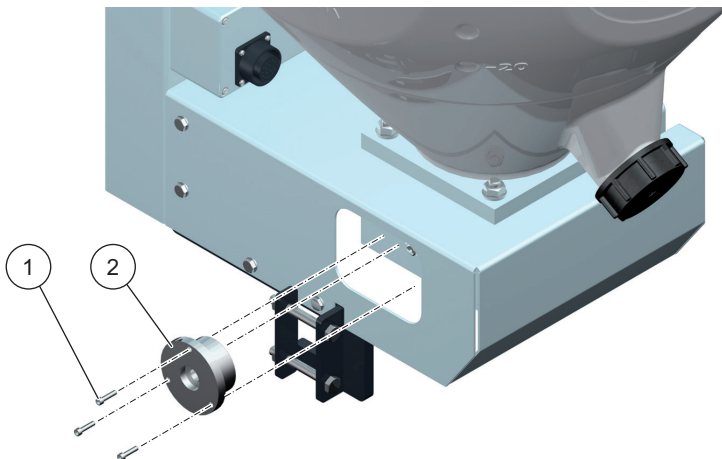
Disconnect the electrical power supply for maintenance work.

**Warning!****Risk of injury**

Wear appropriate working and protective clothing during all work. Comply with the regulations of the spreading material manufacturer.

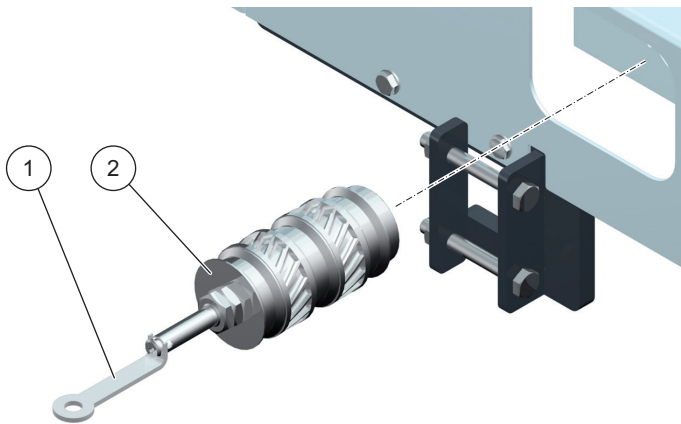
Clean the rotary feeder after approx. 20 operating hours and at the end of the season. This extends the service life of your spreader. Carry out this maintenance work, otherwise the warranty may be invalidated.

1. Removing the pressure piece



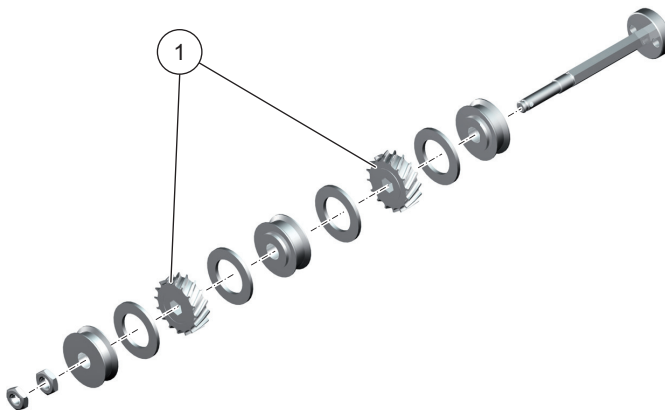
- Unscrew the hexagon socket screws **(1)** (M4x16) and pull out the pressure piece **(2)**.

2. Removing the rotary feeder shaft



- Pull out the rotary feeder shaft **(2)** with the supplied tool **(1)**.
- Strip down and clean the rotary feeder shaft **(2)**.

3. Dismantling and assembling the rotary feeder shaft



- Pull the rotary feeders (wearing parts) **(1)** off the shaft and clean them. Check individual parts for damage and wear, renew if necessary.
- When dismantling the shaft, identify the sequence of components, and push back onto the shaft in reverse order when assembling.

6. Appendix

6.1 Identification

The serial number of the spreader is applied to the rear of the frame. Note the serial number in this operating manual so that it is readily available for inquiries.

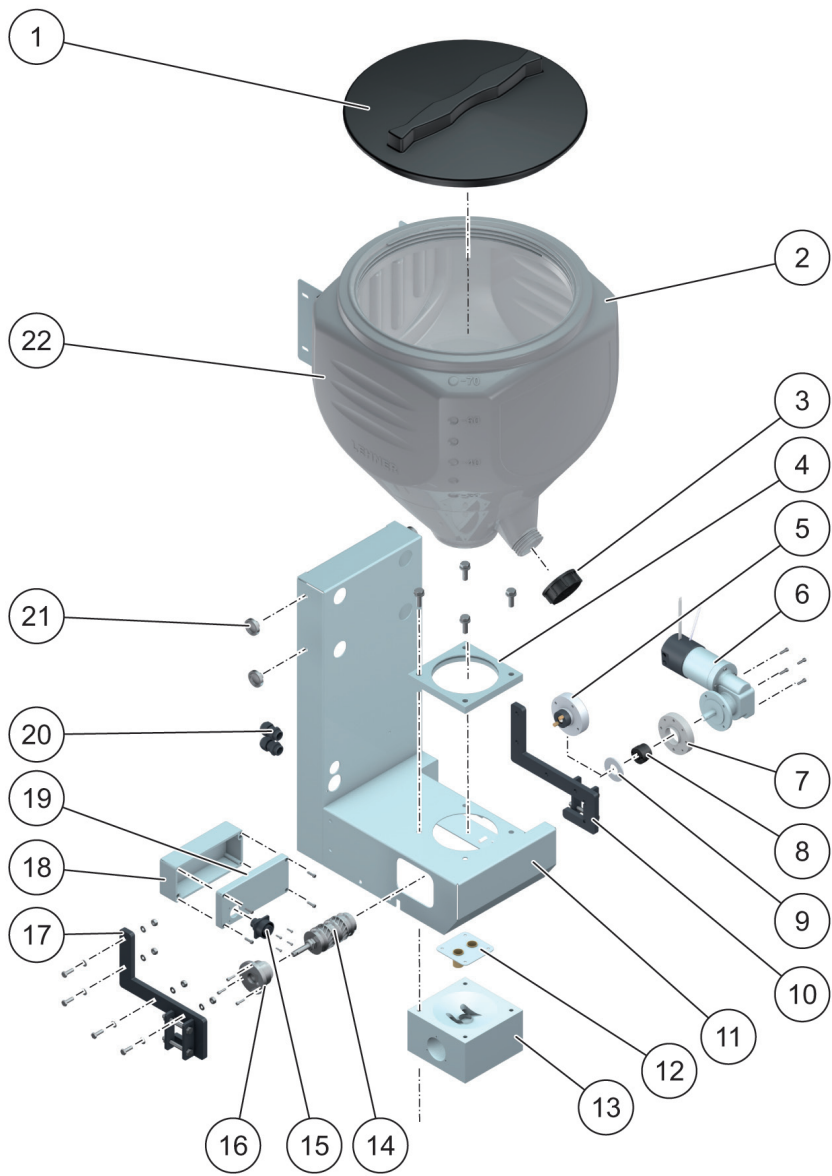
The hardware and software versions are briefly displayed when the control panel is switched on.

Note the software version in this operating manual so that it is readily available for inquiries.

LEHNER	GmbH
LAS-PSM	V1.1

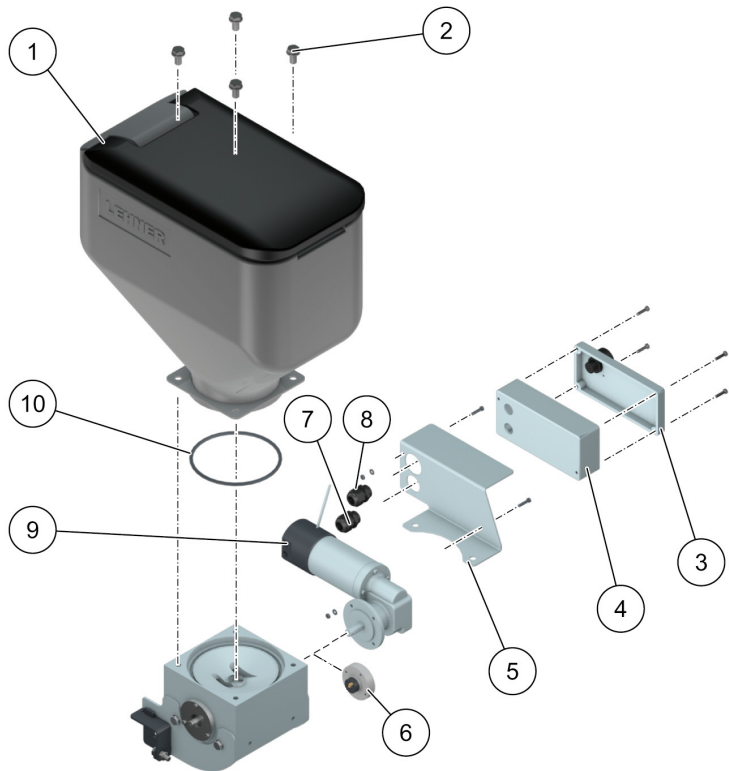
6.2 Spreader spare parts list

6.2.1 AgroDos® 70 litre variant



Object	Number	Parts number	Name
1	1	80107	Lid
2	1	81075	70 litre container
3	1	80393	Residual discharge lid
4	1	80264	Container mounting
5	1	81277	Satellite drive
6	1	81258	Drive with bevel gearbox
7	1	81293	Motor flange
8	1	81277	Driver
9	1	81276	Sliding disc
10	1	81098-1	Adapter right
11	1	81084	Sheet metal housing
12	1	81085	Hose connection
13	1	81229	Dosing block two-row
14	1	81379	Rotary feeder shaft
15	1		Amphenol socket
16	1	81275	Pressure piece
17	1	81098-1	Adapter left
18	1		Control housing
19	1		Control housing cover
20	2		Cable connection
21	2	80116	Star-knob screw 50 M8x14
22	1	81086	Container bracket

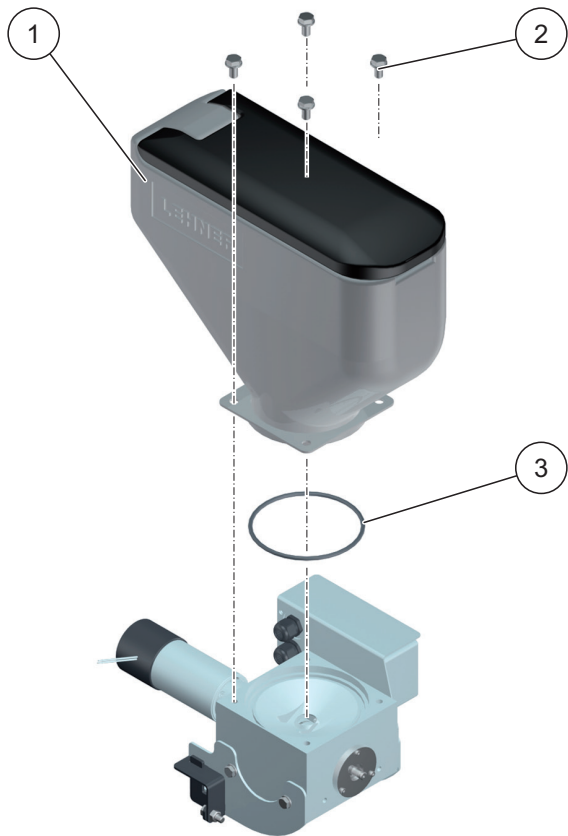
6.2.2 AgroDos® 22 litre variant



AgroDos-013

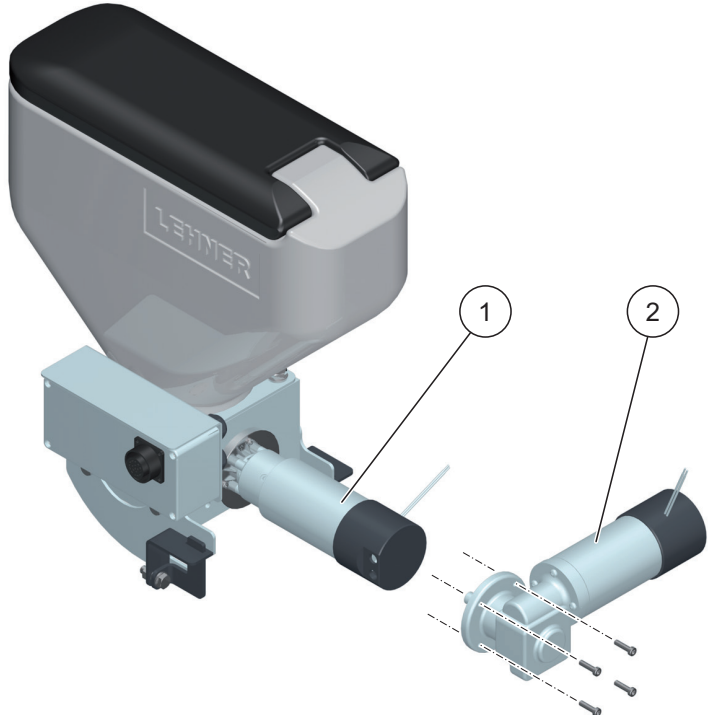
Object	Number	Parts number	Name
1	1	81300	22 litre container
2	4		Hexagon screws M10x20
3	1		Control housing cover
4	1		Control housing
5	1	81296	Frame
6	1	81277	Satellite drive
7	1		Cable gland
8	1		Cable gland
9	1	81374	O-ring

6.2.3 AgroDos® 12 litre variant (container)



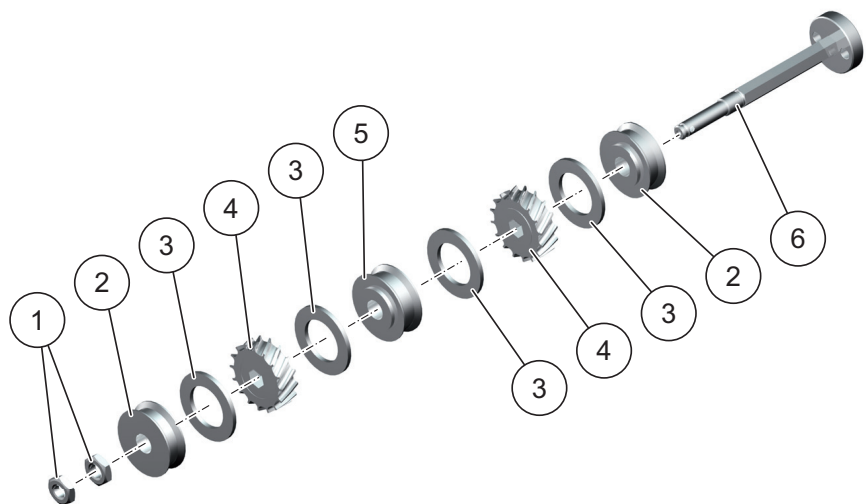
Object	Number	Parts number	Name
1	1	81299	12 litre container
2	4		Hexagon screws M10x20
3	1	81374	O-ring

6.2.4 AgroDos® 12 litre and 22 litre variant (electric motor)



Object	Number	Parts number	Name
1	1	81235	Straight drive
2	1	81258	Drive with bevel gearbox

6.3 Spare parts list rotary feeder



Object	Number	Parts number	Name	Designation
1	2		Nut M12	
2	2	81278	Rotary feeder spacer disc	
3	4	81234	Felt ring	
4	2	81379	Rotary feeder M 5.9 ccm	Standard
4	2	81378	Rotary feeder S 3.9 ccm	Option
5	1	81279	Rotary feeder spacer disc	
6	1	81256	Rotary feeder shaft	

6.4 AgroDos® spreading table for GOLDOR BAIT

Rotary feeder shaft rpm							
Row spacing	37.5 cm	50 cm	70 cm	75 cm	77.5 cm	80 cm	100 cm
2 km/h			8	9	9	10	12
3 km/h		9	12	13	14	14	18
4 km/h	9	12	16	18	18	19	24
5 km/h	11	15	21	22	23	24	29
6 km/h	13	18	25	26	27	28	35
7 km/h	15	21	29	31	32	33	47
8 km/h	18	24	33	35	36	38	47
9 km/h	20	27	37	40	41	42	53
10 km/h	22	29	41	44	45	47	59

Rotary feeder M 5.9 cm³

Output rate 10.0 kg/ha

The settings must be checked with a field trial.

Rotation speed of the rotary feeder 7 - 120 rpm

6.5 AgroDos® spreading table for Nemathorin

Rotary feeder shaft rpm							
Row spacing	37.5 cm	50 cm	70 cm	75 cm	77.5 cm	80 cm	90 cm
2 km/h		8	11	12	12	13	14
3 km/h	9	12	17	18	18	19	21
4 km/h	12	16	22	24	24	25	28
5 km/h	15	20	28	29	30	31	35
6 km/h	18	24	33	35	37	38	42
7 km/h	21	28	39	41	43	44	50
8 km/h	24	31	44	47	49	50	57
9 km/h	27	35	50	53	55	57	64
10 km/h	29	39	55	59	61	63	71

Rotary feeder M 5.9 cm³

Calibration test: 530.0 g/100 rpm

Output rate 25.0 kg/ha

The settings must be checked with a field trial.

Rotation speed of the rotary feeder 7 - 120 rpm

6.6 AgroDos® spreading table for Physiostart

Rotary feeder shaft rpm							
Row spacing	37.5 cm	50 cm	70 cm	75 cm	77.5 cm	80 cm	90 cm
2 km/h		8	11	12	12	13	15
3 km/h	9	12	17	18	19	20	22
4 km/h	12	16	23	25	25	26	30
5 km/h	15	21	29	31	32	33	37
6 km/h	18	25	34	37	38	39	44
7 km/h	22	29	40	43	44	46	52
8 km/h	25	33	46	49	51	52	59
9 km/h	28	37	52	55	57	59	66
10 km/h	31	41	57	62	64	66	74

Rotary feeder M 5.9 cm³

Calibration test: 508.0 g/100 rpm

Output rate 25.0 kg/ha

The settings must be checked with a field trial.

Rotation speed of the rotary feeder 7 - 120 rpm

6.7 EC Declaration of conformity

EC Declaration of conformity

in accordance with the EC Machinery Directive 2006/42/EC, app. II, 1.A

Manufacturer:

LEHNER Agrar GmbH
Häuslesäcker 5-9
D-89198 Westerstetten

Person resident in the Community who is entitled to assemble the relevant technical documents:

Jürgen Beck-Graf
LEHNER Agrar GmbH
Häuslesäcker 5-9
D-89198 Westerstetten

Description and identification of the machine:

Product: AgroDos®
Type: 12/22/70

Function: The AgroDos® is a dosing unit for applying pesticides and various special fertilizers in granulated form. It is produced in three sizes. These differ in the hopper capacity, 12, 22 and 70 litres. The machine is operated using a control panel in the operator's cab. Dosing is performed via a rotary feeder valve that is driven by a 12-volt electric drive. The power supply comes from the vehicle battery. To achieve very precise dosing, the drive can be controlled according to the travel speed. The granulate to be dosed is applied close to the ground via two hoses, using gravity feed.

It is expressly declared that the machine is in accordance with all relevant provisions of the following EC Directives:

2006/42/EC	EC Machinery Directive 2006/42/EC
2004/108/EC	(Electromagnetic Compatibility) Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC

Source of the applied harmonised standard acc. to Article 7, para. 2:

EN ISO 12100-2:2003-11	Safety of Machinery – Basic concepts; general principles for design – Part 2 Technical principles
EN ISO 14121-1:2007	Safety of Machinery – Risk assessment – Part 1: Principles (ISO 14121-1:2007)
EN 50498:2010	Electromagnetic compatibility – Product family standard for electronic equipment installed subsequently in vehicles
EN ISO 14982:2009	Electromagnetic compatibility – Agricultural and forestry machinery

Source of the applied other technical standards and specifications:

EN ISO 12100-1:2003-11	Safety of Machinery – Basic concepts; general principles for design – Part 1: Basic terminology, methodology
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Westerstetten, 10.08.2012

Place, date



Signature
Helmut Lehner
CEO

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