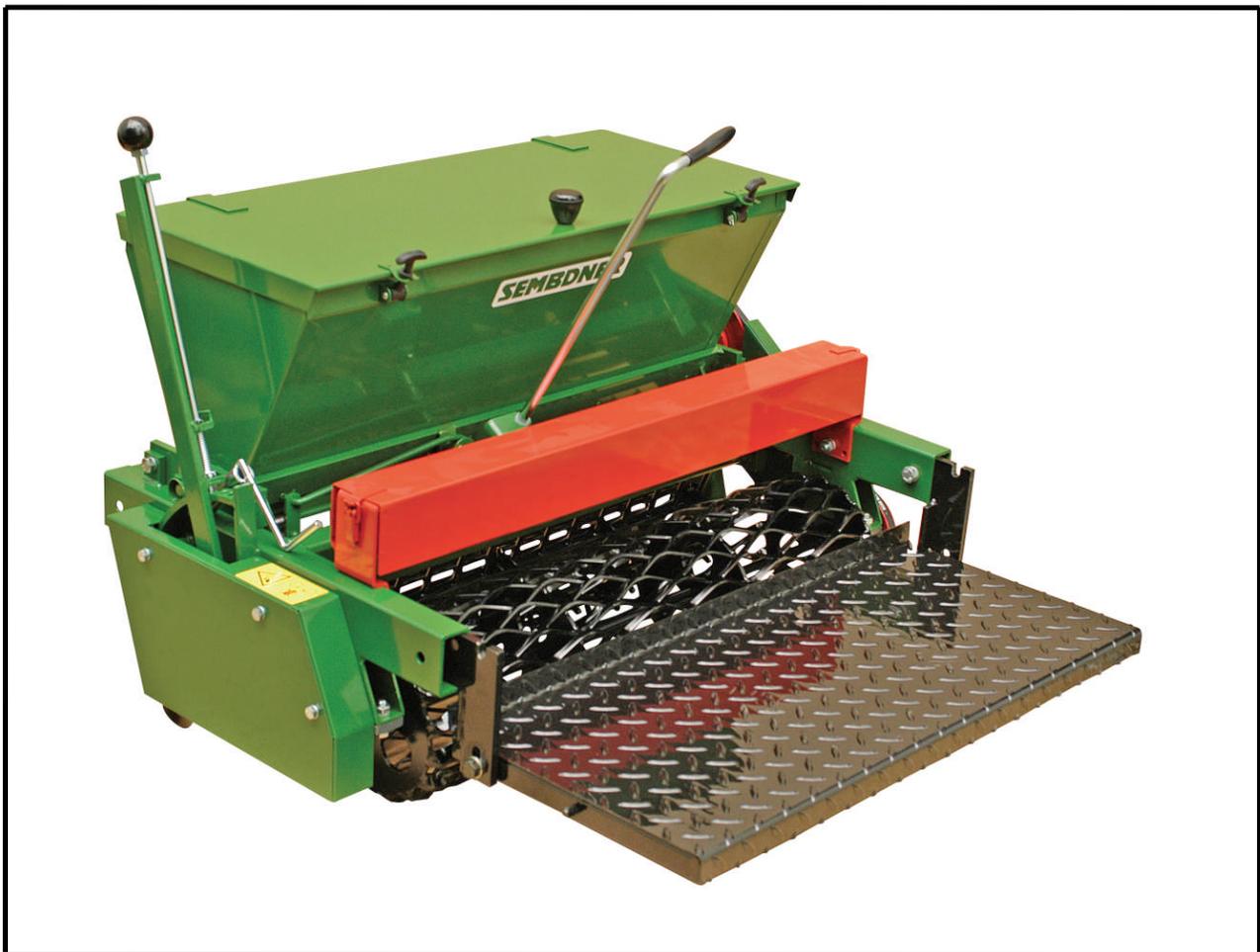


Operating instructions

Lawn seeding-thatching machine tow roller by Sembdner

RS 80 E
RS 100 E



Sembdner Maschinenbau GmbH - Sembdner Strasse 1 - 82110 Germering
Telefon +49 (89) 84 23 77 - Telefax +49 (89) 8 40 24 52

Preface

We would like to thank you for your purchase of a lawn seeding-thatching machine tow roller by SEMBDNER and your trust in our product.

These operating instructions should be viewed as a part of the machine and must remain with the machine when reselling the machine.

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1 Technical Data

1.1 Machine ratings

Technical data	RS 80 E	RS 100 E
Working width	80 cm	100 cm
Overall width	100 cm	120 cm
Weight	115 kg	140 kg
Content of seed container	Approx. 70 liters	Approx. 90 liters
Area capacity per hour	Approx. 2,500 m ²	Approx. 3,200 m ²
Seed spreader quick adjustment	+	+
Maintenance-free bearing points	+	+

1.2 Model plate

Sembdner	
Maschinenbau GmbH	CE
D - 82110 Germering	
Model <input type="text"/>	No. <input type="text"/>
Weight <input type="text"/>	

1.3 Proper use

The lawn seeding-thatching machine tow roller is only designated to seed lawn surfaces (proper use). Any other use is deemed to be improper.

The manufacturer is not liable for any resulting damages; the user carries the sole risk. The adherence of the specified operating, maintenance and service requirements are also a part of proper use.

The lawn seeding-thatching machine tow roller may only be used, maintained and serviced by persons familiar with this and who are instructed of the risks.

The clear accident prevention regulations as well as any other generally recognized technical safety, occupational medical and legal traffic regulations must be adhered to.

Arbitrary modifications of the machine exclude any liability by the manufacturer for any resulting damages.

2 Safety references

2.1 Warnings

Read and observe the operating instructions and safety references prior to start-up!



We have provided all items concerning your safety in these operating instructions with this sign.

2.2 General safety information

Observe general safety and accident prevention regulations in addition to the references in these operating instructions. Submit all safety instructions to other users.

Youths under the age of 18 may not operate the lawn seeding-thatching machine tow roller.

The operating personnel must be familiar with all equipment and control elements as well as their functions prior to any work. It is too late during the work process.

Prior to startup: Check the close range area (children!); observe adequate visibility.

The clothing of the driver should be close-fitting. Avoid loose clothing.

2.3 Selection and qualifications of personnel

Only dependable personnel may work with the lawn seeding-thatching machine tow roller. Observe the legally permitted minimum age. The operator is responsible for the necessary instruction of expert personnel and/or subordinate personnel.

It is recommended that the operator is convinced of the following points of the level of knowledge of personnel employed by him prior to starting the lawn seeding-thatching machine tow roller:

- Knowledge of the content of the operating instructions
- Knowledge of the safety and operating instructions listed therein.
- Knowledge of legal accident prevention regulations

Only hire trained or instructed personnel. Clearly define responsibilities of personnel for the operation, maintenance and service.

2.4 Safety instructions for the operation

All instructions described in reference to operating safety, as well as all items of general safety and accident prevention, which must be performed or observed before, during and after startup must be strictly adhered to.

Any non-compliance may result in accidents and therefore personal injuries.

A safe distance must be maintained when driving backward in enclosed areas or toward solid construction elements.

Safety equipment may not be disconnected or modified against its regulations.

Alterations and modifications of the machine are prohibited.

The operator must be convinced of the proper and safe operational condition of the machine prior to each startup of the lawn seeding-thatching machine tow roller.

Do not leave the operator station while working.

2.5 Safety instructions for maintenance

Adjusting, maintenance and repairs specified in the operating instructions may only be performed by expert personnel.

Provide a safe and environmentally friendly disposal of the operating and ancillary material, as well as the replacement parts!

Only dependable and suitable tools and ancillary material may be used to avoid injuries during adjustments, maintenance and repairs.

Re-attach safety devices on the machine after any work.

Routinely check for proper seating of fastening elements (screws, etc.) and if necessary Tighten.

2.6 Safety instructions for operators

- wear tight fitting clothing
- Wear safety shoes.

3 In General

3.1 Limitation of liability

Technical information, data and references for the operation and maintenance of the lawn seeding-thatching machine tow roller contained in these operating instructions correspond with the current state of the art and are based on the best of our knowledge with the inclusion of our previous experiences and knowledge.

We retain the rights of technical modifications within the scope of further developments of the lawn seeding-thatching machine tow roller described in these operating instructions.

Claims may therefore not be based on the information, illustrations and descriptions of these operating instructions.

We do not assume any liability for damages and operating breakdowns resulting from operating errors, non-compliance with these operating instructions or from incorrect repairs.

Any liability for damages resulting from the use of spare parts and/or accessories that are not original parts of the Sembdner Maschinenbau GmbH is excluded.

Translations were completed according to our best knowledge. We therefore cannot assume any liability for translation errors, even when the translation has been completed or contracted by us.

The German text remains decisive.

3.2 Warranty

Warranty claims must be reported immediately after verification of the damage with information of the purchasing data. Complaints must be confirmed by us. Wear parts are not subject under the warranty.

The warranty expires in the event of:

- improper operation
- improper use
- unapproved operating resources
- not using original spare parts

3.3 Accident prevention regulations

The accident prevention regulations of the horticultural trade association are applicable.

4 Transportation/startup

4.1 Packaging

The lawn seeding-thatching machine tow roller is braced on the shipping pallet with retaining straps and is packaged with a carton sleeve and strapping.

4.2 Delivery scope

The completeness of the accessory parts must be checked when accepting the lawn seeding-thatching machine tow roller.

Parts that were damaged or lost during shipping must be claimed at the shipping company.

4.3 Actions prior to startup

You will need the original connecting piece 4 of your single axle equipment 5 prior to coupling your lawn seeding-thatching machine tow roller.

Attach this and place the single axle tow, as well as the lawn seeding-thatching machine tow roller in a horizontal position, since a perfect operation of the seeding machine will only be guaranteed by this method. Now transfer the mounting holes, the connecting piece, onto the intended connecting plate 3 of the seeding machine.

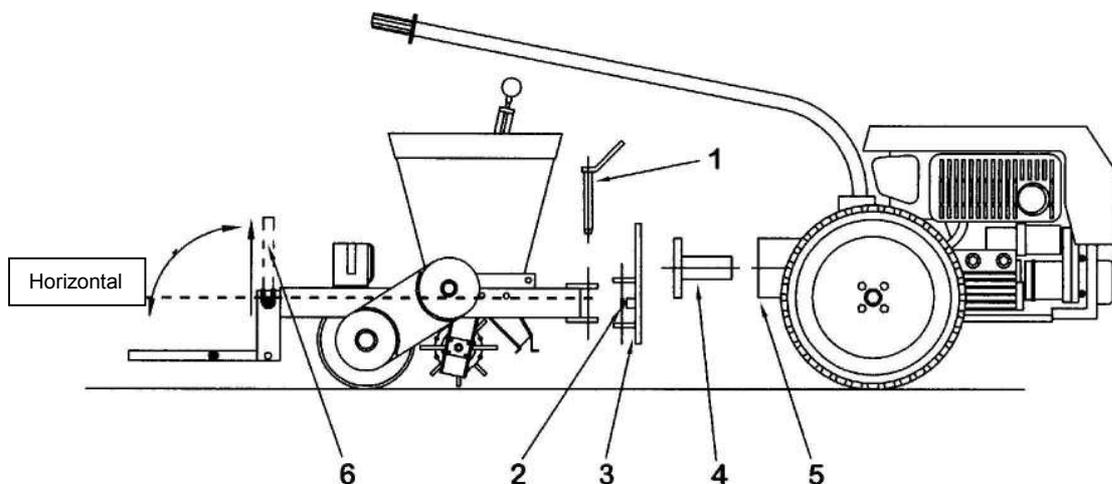
Note: The connecting plate is height adjustable by simply turning it by 180 °.

Remove the connecting plate of the seeding machine 3 by pulling out the red locking pin 1. Drill the connecting plate according to its markings and screw it down with the connecting plate of your single axle equipment.

You will see two adjusting screws 2, which stabilize the steering of the single axle equipment or release it when tightening it on the inside of the connecting plate.

Note: We recommend wide tires.

Fold the running board 6 down for the startup, by first pulling it upward out of the guide and then folding it down. For transporting, pull it upward and carefully insert it in the guide again.



5 Operation

5.1 Working method of the lawn seeding-thatching machine tow roller

Seeding:

The seeding equipment has a shaft of low-wearing nylon brushes, which is resistant against small foreign objects and is not subject to jamming as in rigid models. The precise seed adjustment occurs on a large scale.

The seeds in the seed container are spread out evenly by the brush roller after opening the insert plate and therefore drop through the wind-protected seed outlet hopper.

Thatching:

The seed thatching machine is powered and operates with the cleaning cage without interruptions even on rocky, calcified or moist soil.

The seeds are placed into the soil through the roller behind the seed outlet. The roller is powered so that each individual pin makes an approximately 3 cm long raking movement (roller delay).

Many more seeds are placed into the soil by this, as if only the roller moves across the soil.

Rolling:

The smoothing roller presses the soil surface and the seeds evenly and the seeds therefore germinate more quickly. One benefit of the smoothing roller is the easy turning and steering of the machine without shifting the soil and clogging with rocks or clumps of earth. A disadvantageous soil compression is not anticipated at the weight of the RS-E by SEMBDNER.

Operation of the lawn seeding-thatching machine tow roller:

The angled shift lever for the seed outlet is located in the operator area. Open = vertical / Close = to the right.

The shift lever opens the seed outlet during seeding;

The seed outlet must be closed when turning or driving in reverse.

If the seeding operation is interrupted in the seeding area, the seeding machine must be driven back approx. 15 cm prior to continuing the job, in order to prevent unseeded strips.

It must be noted that one path connecting to the other path are seeded, so that neither double seeded nor empty areas develop.

In order to eliminate this error source when using high quality lawn seeds, half the seed quantity can be sown cross-wise. Seeding errors due to incorrect driving can be generally compensated by this working method.



When turning the machine and when driving backward in enclosed areas

and on solid building parts: Always observe safety distances!

You can turn the seeding machine by cornering the single axle equipment or by lifting and turning the seeding machine over the handle of the two-wheeled tractor with a set connecting plate.

We recommend not driving very tight curves when the connecting plate is not set and with narrow tires, since you may leave deeper tire tracks, which cannot be compensated by the seeding machine.

Adjusting the thatching machine: The penetrating depth of the thatching machine can be adjusted and/or completely switched off by a control lever on the left side of the machine, and now, the machine can be used as only a roller.

The penetrating depth of the thatching machine should be no more than 2 cm during seeding. The thatching machine has 7 set adjusting options; however, it can be used by a floating method, if necessary.

The thatching machine should not be engaged when starting and first driving the tractor, so that the pins on the thatching machine will not be damaged.

Seed filling:

The lawn mixtures should be mixed thoroughly again prior to filling the seeds into the seeding machine, since they may have become dislodged and/or distributed to one side during the previous transport.

Adjusting the seed quantity:

The seed quantity per sqm is adjusted by the lockable control lever on the large scale at the front of the seed container. The numbers on the scale do not designate any details in grams, but are only reference points. The seed outlet is completely blocked at point 0.

Calculating the seed volume per sqm.

There are two options in which the seed collection container (attached above the roughing roller by 2 snap closures) has to be pushed onto the seed guide plate.

- (1) Machine model RS 80 E measure a section of 12.5 m and then start.
- Machine model RS 100 E measure a section of 10.0 m and then start.

This always yields a seed volume for 10 sqm in the seed collection container; calculate and set the desired value by adjusting the seed scale accordingly.

- (2) A V-belt pulley with a coupling is located on the seed container, which must be loosened according to the following shutoff description. Pull out the driving pin and prevent it from locking again by a quarter turn. On the opposite side of the machine,

- 18 revolutions for machine model RS 80 E
- 14 ½ revolutions for machine model RS 100 E

are completed evenly with the crank on the agitator after opening the seed outlet.

This always yields a seed volume for 10 sqm in the seed collection container; calculate and set the desired value by adjusting the control lever of the seed scale accordingly.
Do not forget to latch the coupling again.

Please note that the V-belt pulley clutch locks again prior to seeding.

NOTES

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6 Maintenance/service

6.1 Maintenance information

Check the function of the seeding mechanism by activating the seed outlet lever.

If the seed outlet lever is difficult to move, loosen the four fastening screws of the seed box frame and remove the seed box from the machine frame. Pull out the end plate of the seed volume adjustment and clean the guides with a wire brush.



Following all maintenance, service and retrofitting jobs: Protective chain and belt

Covers must be reattached and the function of the safety switch must be checked!

All ball bearing are sealed and permanently greased and are therefore maintenance-free!

6.2 Spare parts

Only original replacement parts by SEMBDNER may be used, otherwise the warranty eligibility will expire. We request that you include the machine number as well as technical data on the model tag when ordering replacement parts.

6.3 Customer service

Our expert personnel or our resellers, agricultural machine dealers and engineers will be available for any technical information.

Authorized agencies, and/or shops are available to our foreign customers. Please contact the manufacturing plant, if necessary, where we will be happy to be of assistance.

6.4 Customer service addresses

A listing of customer service shops of the relevant engine manufacturer for maintenance and repairs is attached to the operating instructions.

7 Accessories

Seeding thatching machine for golf course fairways:

The lawn seeding-thatching machine tow roller models RS 80 E and RS 100 E can be equipped with special seeding thatching machines to seed golf course fairways. These golf course thatching machines have essentially more pins and are best suited for working the lawn seeds into the substrate areas of the golf course fairways. The thatching machine rollers can be changed out very easily and in a relatively short time.

8 Conformity declaration

Conformity Declaration

Pursuant to the EC Guideline

Sembdner Maschinenbau GmbH
Sembdner Strasse 1
82110 Germering

We hereby declare that the products,

Lawn seeding-thatching machine tow roller
machine model RS 80 E

Lawn seeding-thatching machine tow roller
machine model RS 100 E

which are referred to in this declaration,
Corresponds with the clear safety and health requirements
Of EC Guideline 98 / 37 / EG

Germering, 07.12.2001



Olaf Stauß
Manager