

Order No. 9900.00.20GB01

Operating Instructions

Seedbed combination

Sturmvogel L



Read and follow safety instructions



Operating Instructions

Seedbed Combination Sturmvogel L

Before operating this seedbed combination for the first time, please read carefully through this operating manual and the safety precautions ("For your own safety") and ensure that they are observed at all times.

Ensure that the operators are properly qualified, trained in its use and everyday maintenance, and familiar with the potential hazards and accident-prevention regulations involved. Make sure that other operators are supplied with a complete copy of the safety precautions.

Ensure that all applicable accident-prevention regulations are observed, along with other generally recognized safety procedures and any legislation that may apply with respect to health and safety in the workplace.

Observe the warning labels at all times!

Instructions in this manual accompanied by this symbol and a warning label indicate DANGER. (For further details, see the section entitled "Key to pictograms".)



Loss of warranty

This seedbed combination is designed and built exclusively for standard agricultural use.

Use for any other purpose will be regarded as unauthorized operation and no liability whatsoever will be accepted for any damage or injury that may occur as a result.

The term "unauthorized operation" also covers the full observance of all operating, maintenance and servicing specifications: including, for example, the kW/PS limits and the exclusive use of original spare parts.

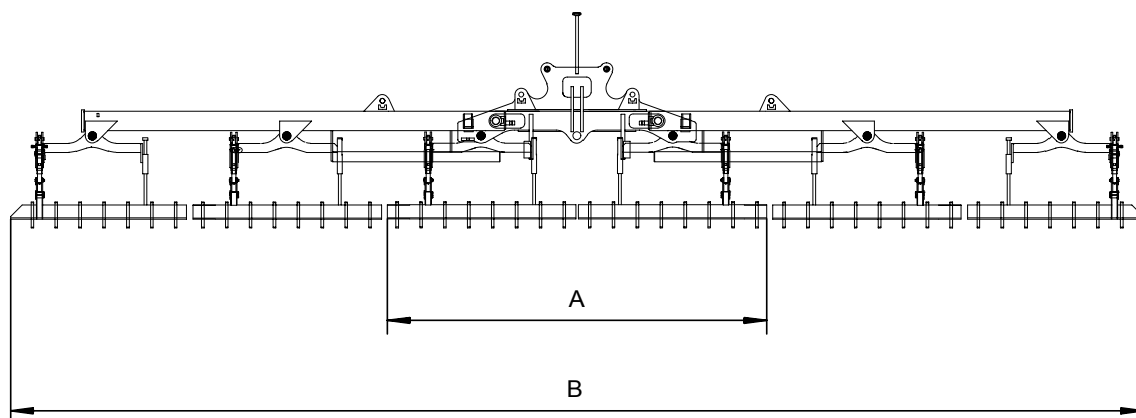
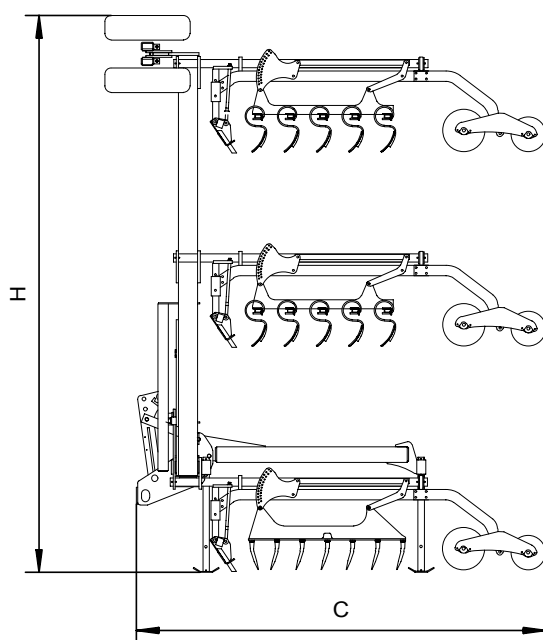
The use of non-original accessories, spares and/or consumables that do not carry specific approval from RABE Agrarsysteme GmbH+Co.KG shall void all warranty liabilities.

We accept no liability for damage, loss or injury resulting from the carrying out of unauthorized repairs and/or modifications to the device.

Claims resulting from missing or damaged items detected at the moment of delivery (transit damage, missing parts) should be made immediately and in writing.

Warranty claims, warranty conditions and our liability exclusions are based on our general terms of delivery.

Technical data



Sturmvogel L							
Type	weight in kg. (approx.)	harrow leaves	tractor max KW/PS	dimensions in mm (approx.)			
				A	B	C	H
4500 L	1706	3	100/135	2950	4500	3168	1698
6000 L	1950	4	133/180		6000		2312
7500 L	2865	5	147/200		7500		3280
9000 L*	3385	6	178/240		9000		4312

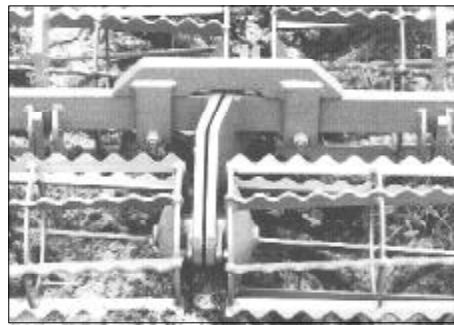
* **Attention!** in the transport position, the height is about 4m, the transport on public roads is not allowed.

Equipment

Three-point linkage cat. II (4.5 m), or cat. III (6 & 9 m), hydraulic folding frame – twin-action, spring-mounted **tined levelling bar**, roller-bearing spike tooth rotary harrow – front: 330 mm; rear: 270 mm ø – middle crumbler connected on 6 and 9 m implements (**1/1**), harrow leaves with 5-row extra-heavy tilth harrow tines or 4-row vibra-tines and/or steep-angled vibra-tines.

Additional equipment:

Track loosener: rigid (36 kg) or spring-mounted (56 kg); lighting gear with warning labels.



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Key to illustrations: (**13/1**) refers to Fig. 13, item 1.

Warning labels (pictograms)

The warning labels are used to indicate possible danger areas; they are designed to ensure the safety of all persons involved in the operation of the machine.

Please refer to the appendix entitled "position of warning labels" for further details.

Replace any missing or damaged warning labels!
(These can be purchased from RABE under the relevant order no.).

Safety precautions



DO NOT allow anyone to stand between the tractor and the implement during coupling or uncoupling. Note that this includes stepping between the tractor and implement to operate the external hydraulic controls (risk of injury).

Set the tractor's control hydraulics to "position control" before coupling and uncoupling.

The operator is responsible for "safety". Before operating the tractor and the implement, ensure that they are both in safe operating and transport condition.



Ensure that the tractor can be steered safely by attaching an adequate counterweight to the front of the tractor if necessary.

Note that there is a danger of crushing and cutting injuries occurring in the area of the three-point linkage and the collapsible side sections.

Before moving or operating the implement (folding in / out), always check to ensure that no one is standing within its turning circle or operating area.



Beware of after-running roller segments when the implement is lifted at the end of a fast run; do not approach until the rollers have come to a complete stop.

DO NOT stand or ride on the implement or remain within its turning circle or operating area.

Disable the tractor's hydraulic control system to prevent accidental operation while the implement is being towed.



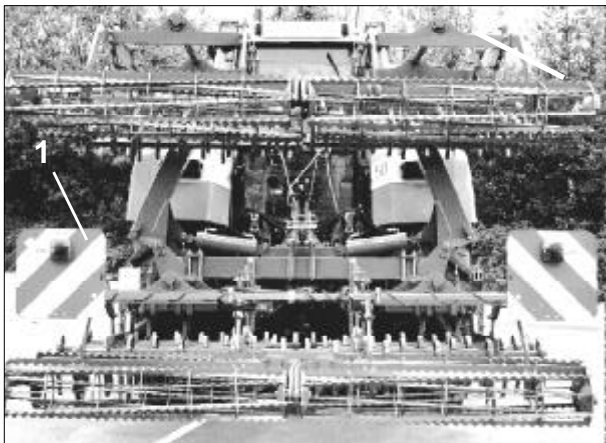
Before leaving the tractor unattended, lower the implement, switch off the engine and remove the ignition key.

Always lower the implement before carrying out any adjustments or maintenance work.

Take the centre of gravity into account when folding in or transporting the implement on steep slopes (along the contour line).

Never fold in or fold out the implement when dismantled!

Before operating for the first time – or after long downtimes – check all screws and bolts for tightness, ensure that all bearings are adequately greased and examine the hydraulic system for leaks.



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Set-up

Check both parts of the coupling for compatibility (cat.: tractor/ implement).

Set the lower links of the tractor to the same height. Couple the lower link shaft.

Set the upper control arm to a height that allows it to reach the implement when in operation.

Correctly secure the coupling assembly (three-point linkage).

Couple the hydraulic hoses: twin-acting – 2 connections – and ensure they are properly connected.

Function: "Lift" - Fold in
"Depress/Lower" - Fold out



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Raise the support legs



Check that there is no clashing when the implement is folded in/folded out, e.g. with a hinged rear window

Transportation position

To fold in or fold out, lift the implement slightly.

If a **4.5 m** long implement is being used, do not fold in when the harrow leafs are set very low unless the two outer sections have already been adjusted to a "flatter" position – connector **4/1** (not required for tilt harrows).

If using a **9 m** implement, turn down the locking hooks (**5/1**) so that they lock automatically before folding in the implement – ensure they have engaged correctly.

Insert the track looseners at a low implement width.

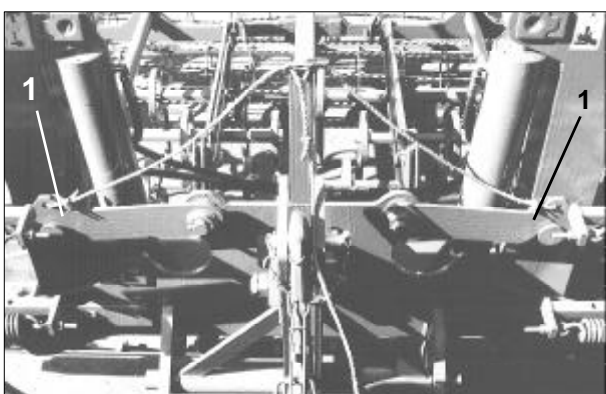
Make allowances for the transportation height – over 4 m.

Mount the lighting gear together with the warning labels (**3/1** = Additional Equipment)

Fasten the lower link of the tractor to the side.

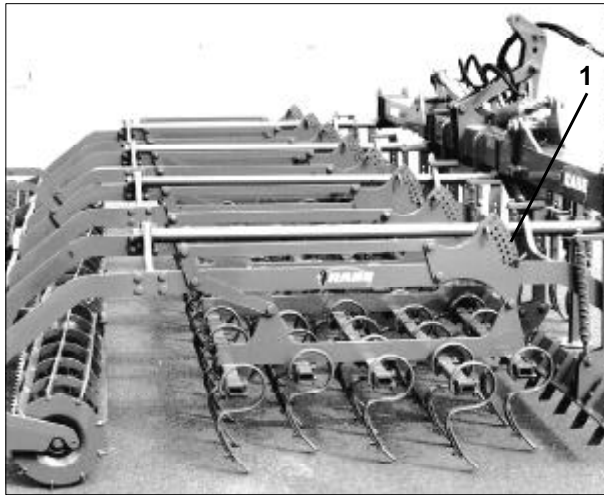
Secure the control units in the tractor.

See page 7 for further details of road-transport procedures.

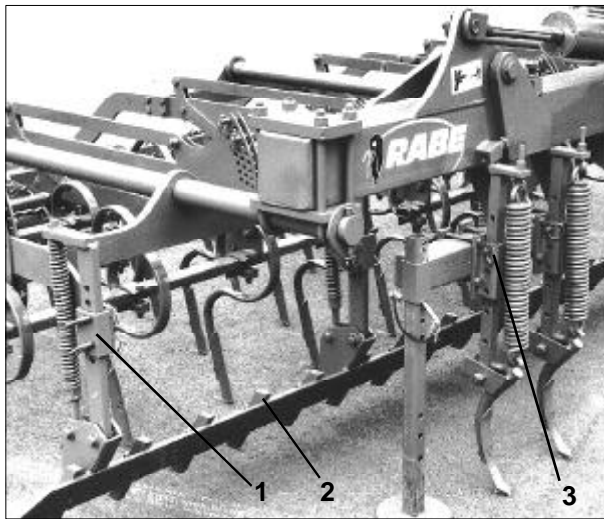


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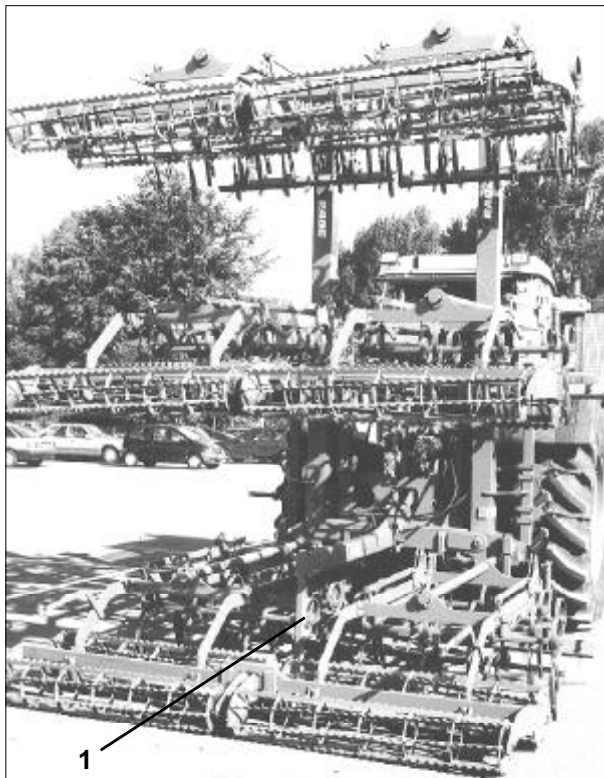
Converting to operating position: Fold out the side sections. On the "**9 m** implement", briefly activate the pressure transducer to "fold in" and disengage the locking device (**5/1**)



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Operation

Avoid taking sharp curves during operation and always raise the implement before reversing. The lower links of the tractor should be positioned to one side; limit any lateral movement on steep slopes. Bring the implement frame into horizontal position by adjusting the length of the top link. Move the combination to "float"; the position of the top link will act on the roller pressure:
 ... steep incline of top link to implement – less roller pressure
 ... level incline of top link to implement – more roller pressure.

Working depth of harrow: in the perforated jibs (6/1), pre-select using the connector – set all to the same value.

Levelling board: The spring-mounted tined levelling board levels and "breaks up" rough clods of earth. It is led regardless of the working depth of the harrow;
 ... make any necessary height adjustments at (7/1) (do not allow any walls of earth to be shunted from the front)
 ... each tine (7/2) can be adjusted individually.

Track looseners: (rigid or spring-mounted) – adapt these to the necessary track width. The depth control is pin adjustable (7/3) - do not set the looseners too deep. The loosener shares are reversible. Overload backup on rigid looseners: splint pin 8 x 50 mm. Fully raise the looseners on the "9 m implement" before transporting.

Dismantling / Parking

The implement may be parked folded out or folded in (secured for transport) – on rollers or supporting legs (9/1); the rear support leg also used for "9 m" implements (8/1)

Ensure the implement is on solid ground!
 Keep the hydraulic coupler free of dust.



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Maintenance

Before working on the attached implement, switch off the engine and remove the ignition key.



DO NOT work under a raised implement.

If the implement needs to be raised, take adequate precautions to prevent the implement from dropping by accident.

Before working on the hydraulic system, completely lower the implement in its folded out position and release any hydraulic pressure.

Dispose of used oil correctly (hydraulic oil is mineral-based).

After initial use (approx. 8 h), retighten all screws and bolts and then re-check their tightness at regular intervals.

Grease the folding frame bearing and crumbling roller bearing at regular intervals (universal lithium-based grease).

Daily: tow rod guides (10/1), spring-mounted track loosener (10/2).

Ensure all linkages are moving freely.

Readjust the stop screws, if required. The side frame should run parallel to the centre section (11/1 or 12/1) and be folded in (11/2 or 12/2).

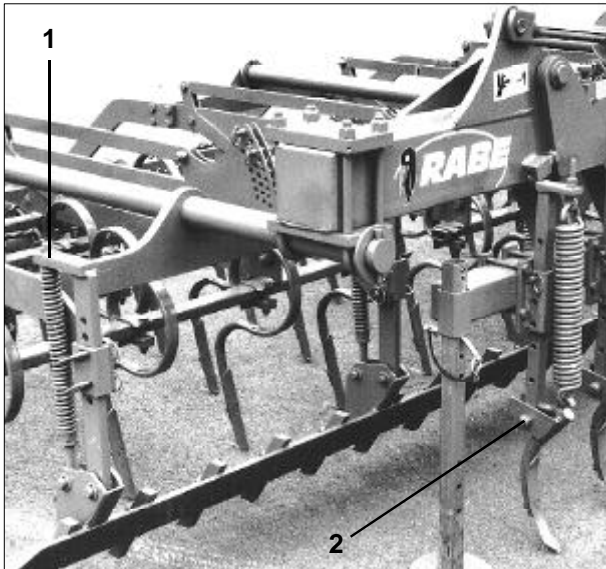
Check the hydraulic hose regularly for signs of damage or brittleness and replace as required (see list of spare parts). These hoses are subject to a natural ageing process and should in any case be replaced after 5-6 years, regardless of their apparent condition.

Avoid directing the hose "at the bearings" for any length of time when cleaning the implement with high-pressure water.

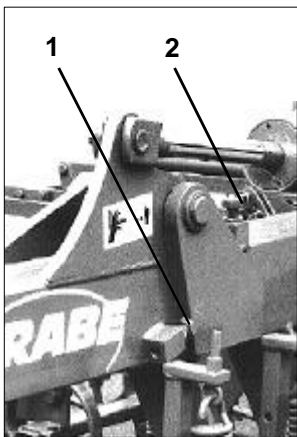
With the implement parked, apply a corrosion-prevention agent to all tools and conserve the piston rods with acid-free grease.

Touch up any chipped or damaged paintwork.

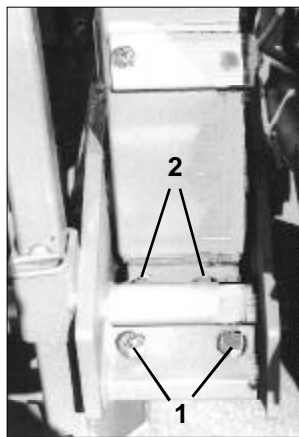
Replace worn shares immediately, or turn twin-core shares around. (**Use original spares only**).



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Precautions / Road transport



Set the implement to transportation position and check that it is roadworthy.

DO NOT allow anyone to stand or ride on the implement, or remain within its turning circle or operating area.

Observe the relevant speed limits and traffic regulations when transporting the implement by road.

Take care when negotiating curves, as towed implements tend to swing out.

Account for centre of gravity on inclines and in curves.



Observe your local road traffic regulations (Highway Code). These regulations normally hold the user responsible for the secure hitching and safe operation on public roads of the tractor and the implements being towed.

Implements must not impair the safe steering of traction engines. The permissible axle loads, the permissible total weight or the wheel bearing capacity (depending on the speed and tyre pressure) may not be exceeded as a result of the mounted implement. To ensure safe steering, the front axle load of the tractor must not be less than 20 % of the empty weight of the vehicle.



The maximum permitted transportation width is 3 metres. A special permit is normally required for moving oversized loads.

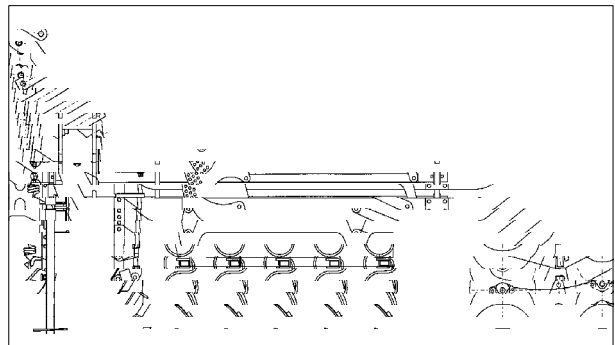
No avoidably overhanging item must endanger other traffic or road users (sect. 32 StVZO [German highway code] or your local equivalent). Overhanging items that cannot be avoided must be covered and fitted with warning signs.

Safety devices include appropriate lighting and signs around all sides and the rear of the vehicle and towed implement, e.g. size 423 x 423 mm, red/white striped warning labels (DIN 11030).



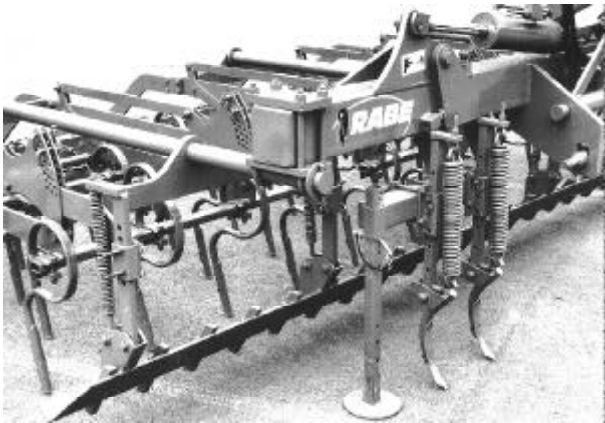
Lighting is required if the towed implement blocks those already fitted to the tractor, or weather conditions make it advisable: e.g. to front and rear, if the towed implement exceeds the width of the tractor's lights by more than 40 cm, or overhangs by more than 1 metre with respect to the existing rear lights.

A lighting system – with warning labels – can also be obtained from RABE as an optional extra.



Sturmvogel 6000 L

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Positioning of warning labels on the unit

For explanation see subsequent warning symbols

