

Kellfri[®]

32-S350 GRITTER



**CAREFULLY READ THE OPERATING INSTRUCTIONS BEFORE USING THE PRODUCT!
OPERATING INSTRUCTIONS TRANSLATED FROM THE ORIGINAL**

INTRODUCTION

Thank you for choosing a product from Kellfri AB. By following the general safety information and the instruction manual and by using common sense, you will have a great and safety use of your Kellfri product for many years. Kellfris tools and products aimed at the self operating farmer with high demands on functionality.

PRODUCT INFORMATION

Kellfri's tractor-mounted gritter, with hopper volume of 350 litres, has a wide range of applications. The gritter is suitable for both ice clearance using various materials as well as the laying of sawdust and chippings in running tracks or similar or for top dressing green areas. The Kellfri gritter's spread auger and mixer are hydraulically powered. The adjustable flow valve variably regulates the rotation speed of the spread auger. This allows for easy adjustment of the spreading quantity for various types of materials and for selecting the operating speed. The bottom flaps are spring loaded with adjustable pressure to achieve even spreading adapted for various types of material. When tractor-mounted, loading is easily and efficiently managed from the tractor's control panel by hydraulically angling the gritter backward. In the lowered position, reverse into the sand pile, lift the gritter back to the working position and the hopper will be filled ready for spreading to commence. Equipped with hydraulic pressure rod and three-point linkage. The gritter requires a single-acting, return and double-acting hydraulic outlet on the tractor. The gritter is supplied with four hydraulic ½ inch, quick coupling male hoses

TECHNICAL DATA	32-S350
Working width	1 300 mm
Volume of the hopper	350 L
Weight	300 kg
Hydraulic drive	Standard
Hydraulic linkage	Standard
Variable spreading quantity	Standard
Self-loading	Standard

INTENDED USE

The machine is intended for spreading gritting materials such as sand, salt, wood chips and sawdust.

SAFETY INFORMATION

Before using the product, please read the safety information and instruction manual and understand its contents for your own and others' safety. Always keep the safety information and instruction manual easily accessible to the user of the product. Remember that it may be good for your own and others' safety to read the safety information every now and then. If the instructions manual is damaged or otherwise unusable, please contact and order a new one from: Your retailer

The general safety instruction is also available from Kellfri's website: www.kellfri.co.uk
Do not use this equipment if you are feeling sick, tired or in influence of alcohol. Nor if you are under the influence of strong medications or drugs, suffering from strong depression or severe mental illness. Always follow the general traffic rules and regulations and the rules of the Animal Welfare Act. Persons under 15 years old and people with mental illness may not use these product.









Kellfri disclaims any responsibility for self-made modifications, changes or alterations.

Product Safety Information

- The product may only be used in the manner described in this manual.
- Equipment connected to the tractor: Read the tractor manual!
- Never leave the equipment with the tractor engine running. Turn off the engine and apply the parking brake when leaving the tool - even for a short while.
- Risk of crushing! Never stick your hands or feet on the equipments spread auger
- Only you who operates may be in the vicinity of the machine during operation.
- Always turn off the engine of the towing vehicle before servicing or refilling the hopper.
- Do not overload the equipment while driving. Keep the gritter low during all transport when loaded. Max speed 20km / h.
- During service, put the equipment on level ground.
- Always disengage the machine before performing service or maintenance work.
- Never allow anyone to ride on the equipment.
- Never stand or walk under a raised equipment without ensuring that it is properly supported and locked.
- Ensure that all guards are fitted and can not come loose
- Observe maximum load! Never overload the machine! The suspension device on the front or rear linkage should not lead to exceeding of the permissible load on the axles and tractor tire load capacity.

WARNING DECALS

Ensure that warning labels are always visible and clean. Clean the warning labels as required. Do not rinse using pressure washer directly on the warning labels. Any damage/ brokenstickers should be replace. Order new stickers from your supplier.

SYMBOL	EXPLANATION
	Read the instruction manual carefully before use
	Warning! Risk of flying debris! Risk zone 5 m
	Risk for children accidents.
	Forbidden to stay on the machine.
	Rotating knives
	The machine is CE-marked

PERSONAL PROTECTION

Always wear suitable clothing and footwear. Do not wear loose clothing or jewelry when using the machine. Remember to put up long hair when operating rotating machines. Wear protective gloves, to prevent risking burns on contact with hot surfaces such as exhaust system, and to avoid oil and gasoline on the skin. Hearing protection should be used when the engine is running.



INSTRUCTIONS FOR EMERGENCY SITUATIONS

In case of emergency, call 112.

Always have a mobile phone or emergency phone available when working alone. A first aid kit and fire extinguisher must be kept in an easily accessible location when carrying out any work, maintenance and service. To perform an emergency stop, turn off the tractor.

SURROUNDINGS

Make sure your working area is clear from people, children and objects before installing and using the machine. Risk of serious injuries can occur during operation. Take an extra caution when children are in the area where the equipment/ product is being use or stored. Check the area for low hanging electrical wires. Be careful when working on slopes and near ditches.

Always work alone with single - purpose tools/products. Never have junk lying in your area. Keep working areas clean. Always respect the risk zone.

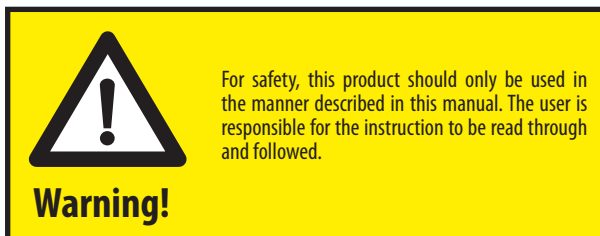


BEFORE USING

Read the instruction manual carefully. Be sure that you understand the safety information, instruction manual and warning labels. Use common sense when using and use the appropriate personal protective equipment.

Always check the performance of the machine combination to be used. Importantly, these harmonize and match in a satisfactory manner. This is to ensure the implement function and your and others' safety. Visually inspect the gear or the product before use. Fix or replace damaged and worn parts immediately to reduce the risk of injury. Lubricate moving parts and check that all screw-nuts and bolts are tightened. Clearing when necessary.

Learn and remember the correct working methods. Beginners should always keep a low speed, use extreme caution before routine and product knowledge is achieved. The user/customer is responsible to handle the situation correctly. The product should not be taken into use unless it can be done in a safe way for the user.



CONNECTING THE EQUIPMENT

- Connect the machine to the tractor's threepoint hitch
- Make sure that the locking pins are correctly mounted.
- Connect the hydraulic hoses to tractor's hydraulic outlet
- Make sure to connect the hydraulic hoses onto the right outlet. It's important that the return flow is correctly connected, the machine don't withstands any counter pressure
- The machine is ready to use.
- **WARNING!** When disconnecting the machine, always make sure that there are no pressure in the hydraulic system before unplugging the hydraulic hoses.

USE

Only people who understand the safety information and operating instructions may operate this equipment or product. Be alert and cautious while working with the equipment and only use the equipment in the manner described in the manual. When working with equipment that has moving parts there is always the risk of crushing.

- Check and tighten all the nuts and bolts of the machine.
- Check that the equipment is not damaged before use.
- Practice the movement pattern calmly and methodically for desired spreading amount
- Operate and control spreading of the gritter
- The spreading quantity is adjusted by the spring loaded bottom flap.
- Bottom flap can be opened and closed by means of the adjustment screw on the left side of the diffuser. This way, the machine can easily be set for different types of materials

Topping up the hopper is easily and efficiently done from the tractor. Fold down the gritter by using the tractor's hydraulic and backed into the sand pile. When the hopper is filled lift the gritter back into working position and spreading can begin. The spreading quantity is set using the adjustable flow valve. The variably regulates the augers rotation speed, set until the desired amount is dispensed. Bottom flap can be opened and closed by the adjustment screw on the left side of the diffuser. This way, the machine can easily set for different media types.



AFTER USE

Rinse the equipment with water if necessary.

TRANSPORT AND STORING

Make sure there are no people, children and foreign objects around the area before transporting the machine. Always take an extra caution during the transport. Ensure that the product is well secured and that transport brackets are mounted. Always place the load as low as possible. Respect the danger zone even during transport. When lifting the equipment, never go underneath suspended loads. Trailer used for transport should have working brakes.

Always store the machine in a dry place preferably underneath a cover when not in use. Ensure that the product is stable and not likely to tip over. Never let children play where the machine is being stored. Always keep in mind the risk of tipping!

MAINTENANCE AND SERVICE

Ensure that the unit is stable and cannot tip over during maintenance and service. Replace damaged or worn parts immediately to reduce the risk of abrasion. Always perform maintenance, service and inspection, as recommended. Use only original replacement parts or spare parts with equivalent performance to reduce the risk of damage. All repairs and connections with electricity must be performed by a qualified person.

SERVICE

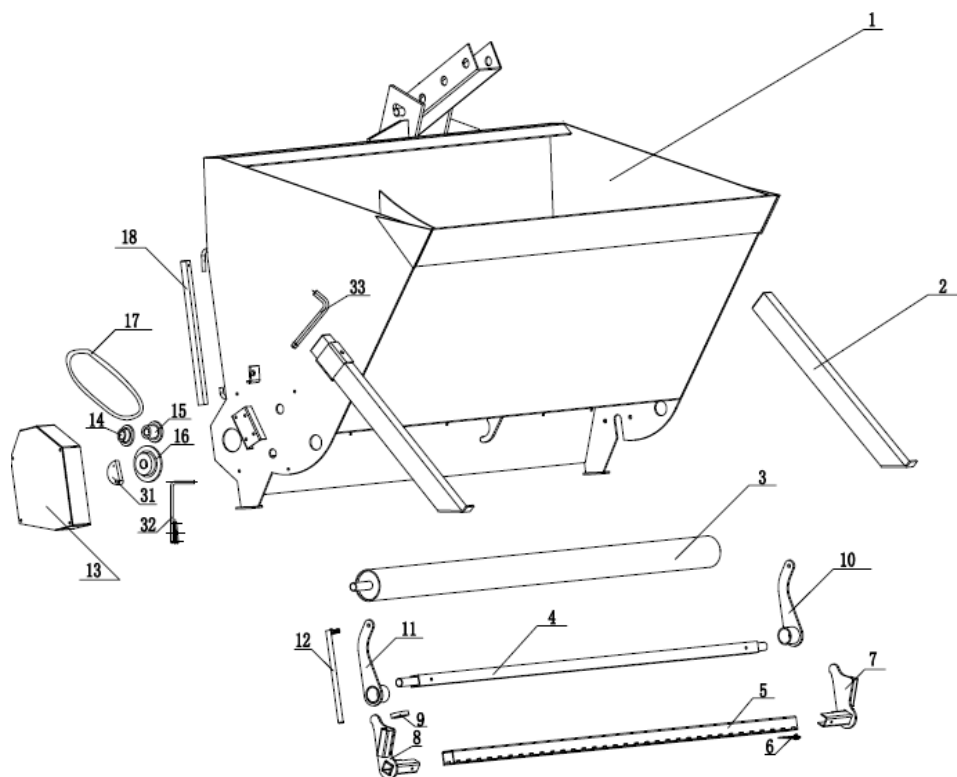
- Regularly check the condition of the gritter before the failure is a fact.
- If cracks, twisting, bending, gaps or fatigue is discovered stop the operation and rectify the fault.
- Replace worn parts.
- Disconnect the equipment from the tractor when remending the faults.
- Rinse the equipment with water, if necessary, preferably after each use.
- Lubricate moving parts regularly. For spare parts: Contact Kellfri Service

TROUBLESHOOTING

Error	Measure
There's no sand / salt coming out of the gritter	Make sure that nothing is stuck in the spreading auger. Caution Risk of crushing! The rotating auger must not be touched! Unclog it from any object that is stuck in it.
Spreading auger does not rotate	Make sure the hydraulic hoses are properly connected. Check the pressure in the system.
Poor spreading results	Check the rubber flap. Adjust if necessary Check the setting of the spreader

RECYCLING

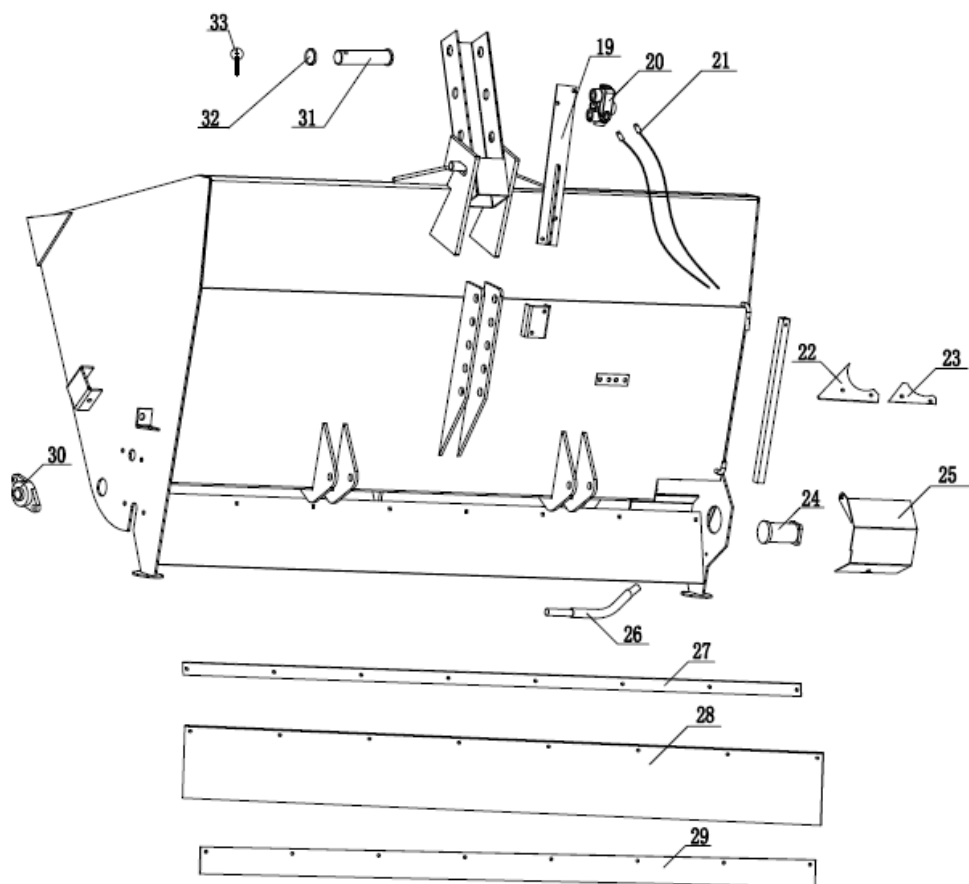
Disposal of the product, disassemble and transport to the municipality's recycling station. Contact your local authority for further information



32-S350

No.	DESCRIPTION	QTY
1	Hopper	1
2	Outrigger	2
3	Auger	1
4	Shaft	1
5	Gritter plate	1
6	Limiter spreading pins	32
7	Right bracket	1
8	Left bracket	1
9	Sleeve	2
10	Right arm	1

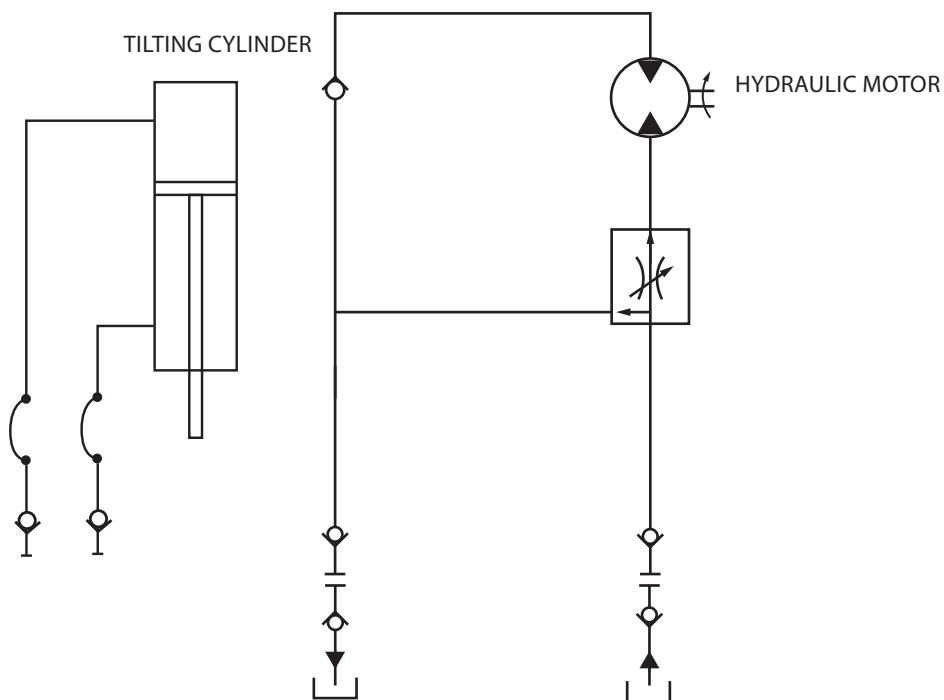
No.	DESCRIPTION	QTY
11	Left arm	1
12	Bolt	2
13	Protection cap	1
14	Bearing part 1	1
15	Bearing part 2	1
16	Bearing part 3	1
17	Belt	1
18	Adjusting pin	1
31	Flange	1
32	Spring	1



32-S350

No.	DECEIPTION	QTY
19	Mounting plate	1
20	Valve	1
21	Hose	4
22	Limiter plate	1
23	Sealing plate	1
24	Hydraulic motor	1
25	Protection cover for the motor	1

No.	DECEIPTION	QTY
26	Shaft	2
27	Mounting plate for flap	2
28	Rubber flap	1
29	Rubber flap	1
30	Bearing	4
31	Pin	1
32	Plane washer	1
33	Linch pin	1





Complaint form

We are grateful for your help pointing out any inaccuracies in the Kellfri product delivered to you. Before making a complaint read Kellfris general warranty and sales conditions in our catalog as well as the enclosed User's manual that comes with the machine.

Please fill in the details below and attach photo and other information in order to process your request.

Buyer:	Customer number:
Adress:	Invoice number:
E-mail:	Phone nr:

When was the product delivered?	When was the product taken into operation?	Did the product functioned as it should upon the first operation?
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Defect product / part:

Problem description:

Describe the sequence of events:

Other:

Submit Complaint form and photo to:
Kellfri AB
Division of Services : Contact Kellfri retailer
Or e-mail service.
info@kellfri.se

Signature:	Date:
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WARRANTY TERMS AND CONDITIONS

Validity of the warranty - Kelifri's Warranty is valid 12 months from the date of purchase.

This warranty replaces - Compensation for spare parts after acknowledgment that the fault lies on the material or manufacturing defects.

This guarantee do not cover

- Labour costs
- Travel expenses
- Any modification that the buyer himself has/had made.
- Any consequential damages that occurred out of damage to the machine.
- Damage due to normal deterioration of the machine, inadequate: service, user inexperience or use of spare parts which are not original.
- Wear parts such as hoses, seals, oils, and mechanical belts

EG-FÖRSÄKRAN OM MASKINENS ÖVERENSTÄMMELSE, ORIGINAL

EC-DECLARATION OF CONFORMITY

According to 2006/42/EC, Annex 2A

Kelfri AB

Munkatorpsgratan 6

532 37 Skara, Sweden

Declares that the machine

Name: 32-S350

Type: Gritter

Complies with all applicable provisions of the Machinery Directive 2006/42/EC.
Other equipment must meet the hardware requirements of the Directive.



Tina Baudtler, CEO 2015-11-04

Kelfri AB is constantly working on further developing their products and therefore reserves the right to modify, among other things the design and appearance without notice.

CUSTOMER SERVICE

You are always welcome to give your feedbacks, reviews or ask us about our tools and products.

Kelfri AB

Telefon: 0046 (0)511 - 242 50

Fax: 0046 (0)511 - 168 33

E-post: info@kelfri.se



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