



# **Kellfri<sup>®</sup>**

## **13-WC10 CHIPPER 100**



**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. Kellfri designs and delivers effective, affordable machinery and components for forest, agriculture, construction and gardening in Sweden, other Nordic countries and Europe.

## PRODUCT INFORMATION

Chip wood waste, small trees, branches and twigs and use it as fuel for heating, to cover garden beds, the basis for exercise trails, compost etc. Simple and strong construction without V-belt for a smooth operation. The wood chipper is mounted on the tractor's three point linkage. The Outthrowing part is rotatable. Splintering wood with a maximum of 100 mm in trunk diameter and brushwood up to 250 mm. The machine comes as standard with PTO shaft.

TECHNICAL DATA	13-WC10
L x W x H	1016 x 1067 x 1524 mm
Cutting disc	635 mm
Knives	4 st moving och 1 stationary (härdat stål)
MAX diameter of timber	upp to 100 mm
RPM	540/ 1 000 rpm
Power requirement	30 - 45 hp
Weight	215 kg
Input opening	500 mm x 500 mm
Output opening	100 mm x 250 mm
Wood chip tube rotation	360 °
Twig breaker	No

## MACHINE

The implement is intended to chip wood waste, twigs and branches.

*NOTE! The machine can be dangerous misuse, therefore, it requires that the user of the machine has sufficient knowledge of how the machine is used and works!*

## 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](http://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.



## PRODUCT SAFETY INFORMATION

- Read the instruction manual carefully before using this product. The product may only be used in the manner described in this manual.
- Keep the work area free from other people, moving parts, increasing the risk of accidents.
- Respect implement risk zone! Only you who drive should stand near the machine during operation. Children must never be staying within the work area, never let children play with the machine.
- The tool works best and safest when it is used in this capacity it is intended for, do not try by various means to increase machine capacity. Never overload the machine.
- Never leave the machine unattended when it is running. Turn off the tractor engine and tighten
- parking brake when you leave the piece of equipment, even for a short while.
- Never leave the gear retracted. The hydraulics can lose pressure and as a result the implement could fall down.
- Ensure that all guards are always installed and can not come off before use.
- The PTO shaft must be protected over its entire length. Make sure to anchor the safety chain well.
- The machine should always be disconnected before maintenance or service.
- The machine may not be used without feeder and hopper.
- Do not drive with the chipper if excessive vibration occurs, stop the machine immediately and check the maintenance schedule.
- Do not use the machine unless all safety precautions are taken
- Do not climb on the chipper!
- NEVER try to remove things that stuck in the wood chipper while it is running!
- Ensure that the equipment has stopped spinning before any action is taken.
- Never place any body part in the machine while it is running.
- The machine may only be lifted on the designated lifting points. Use only suitable lifting equipment with the enough lifting capacity to lift the machine.

## INCASE OF EMERGENCIES

In case of an emergency please dial 112.

Keep cell phone or emergency phone available specially when working alone. First aid kit and fire extinguishers must be kept easily accesable during all work, maintenance and service.

## PERSONAL PROTECTION

Always use suitable protection equipment. Do not wear loose clothing or jewellery while working with the equipment. Long hair should be tied up when working equipment that has moving parts. Use protective gloves as there is a risk of burns if any hot surfaces are touched such as exhaust pipes, and avoid getting oil and petrol on skin. Ear defenders must be worn whilst the engine is running.









## 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.



## 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	LOCATION
	Warning for ejection of objects Risk zone 20 m	The side of the machine
	Warning! Rotating PTO-shaft	
	Rotating machine parts	
	Warning! Keep off the machine!	
	Warning! Accident risk for children!	
	The product is CE-märkt	



For safety, this product should only be used in the manner described in this manual. The user is responsible for the instruction to be read through and followed.

**warning!**

## SAFETY MEASURES BEFORE OPERATING

Please read the safety information and operating instructions carefully. Make sure that you understand the safety information, operating instructions and warning decals. Use common sense when using the implement and use the appropriate personal protective equipment. Always check the performance of the machine combination that will be used. It is important that these harmonize and match in a satisfactory manner. This is to ensure the implement or product's function and your and others' safety.

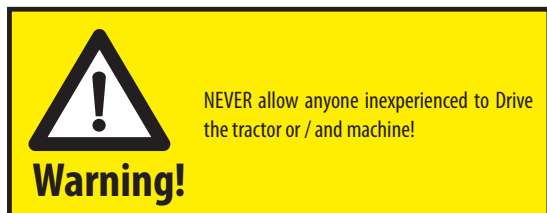
Visually inspect the gear or the product before use. Fix or replace damaged and worn parts immediately to reduce the risk of injury. Lubricate moving parts and check that all bolts and nuts are tightened. Fix if necessary. Learn and remember properly working methods. Beginners should keep a low speed until the person has learned how the machine or the product works. The user / customer is responsible for the how the user handles the situation. If experiencing the machine as dangerous for the user, the machine shall not be used.

- Perform a safety check of the machine before each use. If you notice any errors or omissions, the machine should immediately be repaired.
- Make sure they are not any foreign objects in the machine before using it.
- During operation, the machine must be on a hard, flat surface. Avoid working on slippery surfaces, especially in winter.
- Check the PTO-shaft drive shaft and the three point linkage before the coupling and use of the chipper.
- Check the work area before starting work. Make sure there are not any people or animals nearby.



## USE

Only people who understand the safety information and instructions in this manual may operate the equipment. Be alert and careful when working with the machine and only use the equipment or product in the manner described in this manual. When working with equipment that has moving parts, there is always the risk of injury. Be careful when working with equipment equipped with hydraulic hoses, oil under pressure can penetrate the skin. Seek medical attention immediately if this occurs. Always work alone with the tools that are defined as single purpose tools. Respect the equipment's risk zone.

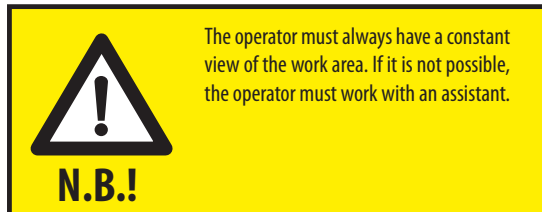


## COUPLING AND UNCOUPLING

- Couple the implement to the tractor's rear three-point hitch.
- Connecting PTO-shaft. Adjust the length, if necessary. (See PTO-shaft manual)
- Anchor the chain well.
- Ready for use.

## UNCOUPLING

- Reduced tractor engine speed to idle, turn off the engine.
- Make sure the gear shaft has stopped spinning before uncoupling of the PTO shaft .
- Before dismounting the chipper from the tractor, park it on a flat, hard surface.
- Make sure it can not tip over.



## CHIPPING

- Get familiar with the chipper without starting it.
- It is important that the chipper is stable during work. The chipper must not be lowered too much in relation to the tractor. The PTO shaft may become loose during operation.
- It is important to always keep a safe distance to the place where the chips are thrown out. Aim the chute so that the chips that are ejected does not pose a risk to the operator or anyone else.
- Starting the chipper carefully with the tractor at low speed. Then increase the speed slowly to the right chipping speed (540/1000 rpm) IMPORTANT! When you turn off the chipper, the chipper disc continues to rotate, wait until the disc has stopped spinning before any action is taken on the machine.
- Never put any part of the body into the hopper or into any other part of the chipper while the machine is running.
- Before feeding material to be chipped, ensure that the wood fed into the chipper is free of metal, earth, nails, stones, etc.
- For manual input, never work in front of the feed hopper.
- Make sure that no one has hands or arms next to the roller.
- Insert the branches to the chipper and the chipping begins, then let go of the branches as soon as the process starts

## AFTER USE

- Parking is not allowed with the implement above ground, park with the implement resting on the ground.
- Clear of the implement from dirt if necessary.

### TRANSPORT AND STORING

Check that the work area is free from bystanders, children and objects before driving off. Always observe additional caution during transport and moving. Ensure that the equipment or product is well anchored and existing transport lashings are fitted. Always position the load as low as possible. Respect the risk zone even during transport and moving. Do not permit anyone to walk under suspended loads when carrying out lifts. Trailers used for transport should have properly working brakes. Always keep the equipment or product on a dry surface, preferably underneath a roof when not in use. Ensure that the equipment or product is stable and cannot fall over. Never permit children to play at the storage site. Be aware of the tipping risk!

If the chipper is to be stored for a long time, lubricate the knives with lubricants.

### 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

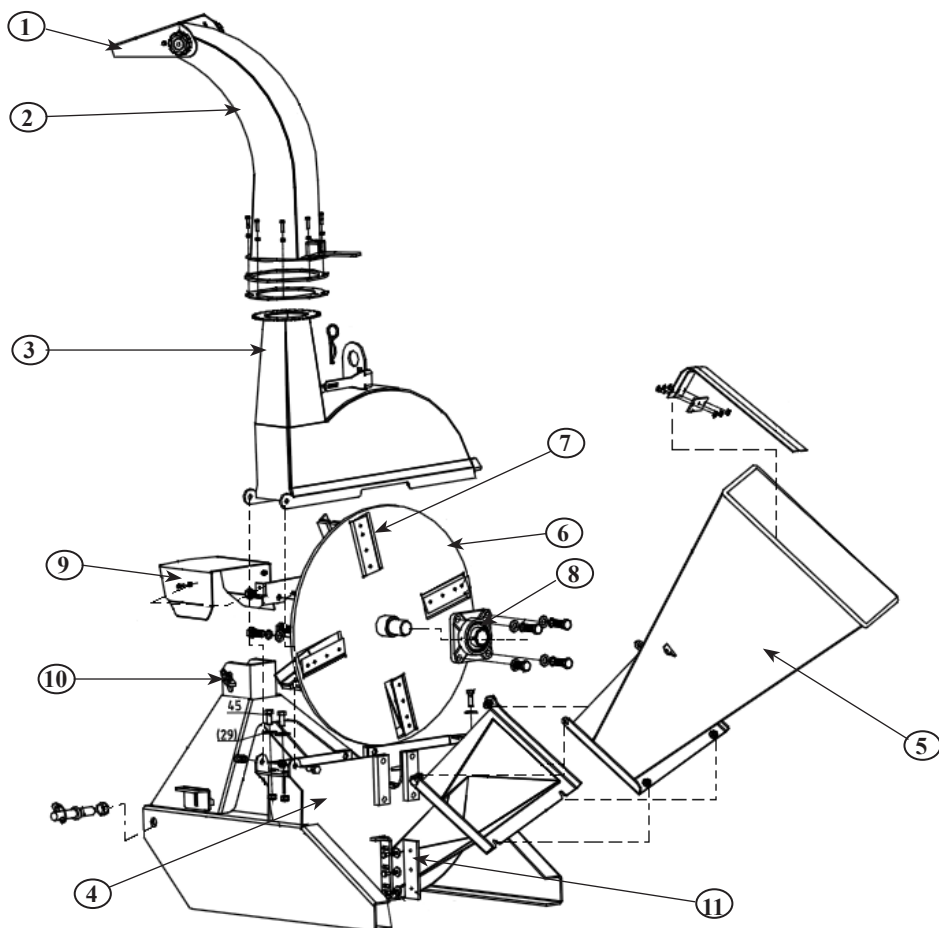
- Always disconnect the implement from the tractor when the fault remedied.
- May only raise in the special lifting points, only use lifting equipment with sufficient lifting capacity.
- Regularly check the condition of the the implement before the break down is a fact. If you discover cracks, twisting, bending, gaps or fatigue stop the operation and rectify the fault.
- Worn parts should be replaced. Tighten all screws and nuts after a few hours of driving, and after a day of using the implement.
- Check all bolts and nuts are tightened after maintenance and service. Always test the machine before opeartion is started.
- Lubricate all lubrication points regularly. Lubrication points are lubricated every 20 hours.

SERVICE	INTERVALL	
Knives	Before each run	Replace any defective blades. Sharp blades provide better results. When replacing bolts, tightened them properly.
	While driving	listen for noises
Bearings	Regularly	lubricate bearings with grease regularly, depending on how much the machine is used. When the machine is oftenly use, all bearing should be lubricated every week. Otherwise, every 50 hours or once a year.
	After 50 running hours	
The implement	After each run	Wash away dirt and grass with water
Safety equipment	Before each run	Check of safety devices such as safety valves, safety etc.

### RECYCLING

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





No	Description
1	Screen
2	Chute
3	Top cover
4	Lower cover
5	Hopper
6	Cutting disc
7	Knife
8	Stock
9	PTO-shaft protection
10	Three point linkage
11	Counterknife

Replacement parts ART. NO	DESCRIPTION
R13-WC10.001	Knife Chipper 100
R13-WC10.002	Bearing Chipper UCF208
R13-WC10.003	Distance Ring chute
R13-WC10.004	Distance Ring chute
R13-WC10.005	Distance Ring chute
R13-WC10.006	Twig breaker
R13-WC10.007	Counterweight

## ADJUSTING THE CHIP LENGTH

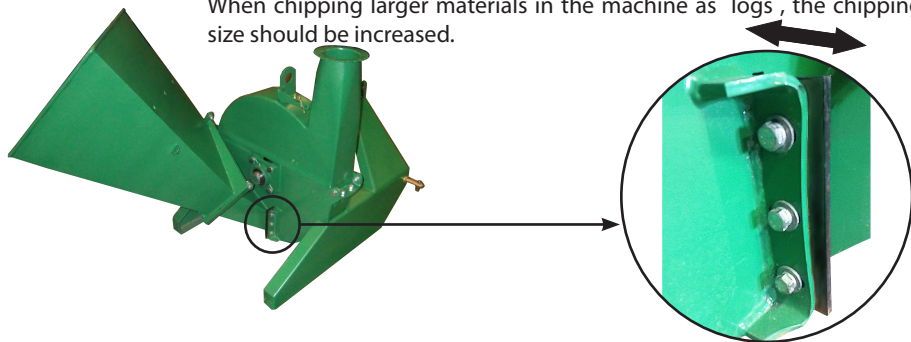
It is the distance between the cutting knives and the counter knife which determines the chip size. Wood chips size is set by moving the cutting knife inward or outward. The greater the distance is between the blades, the larger chips you get.



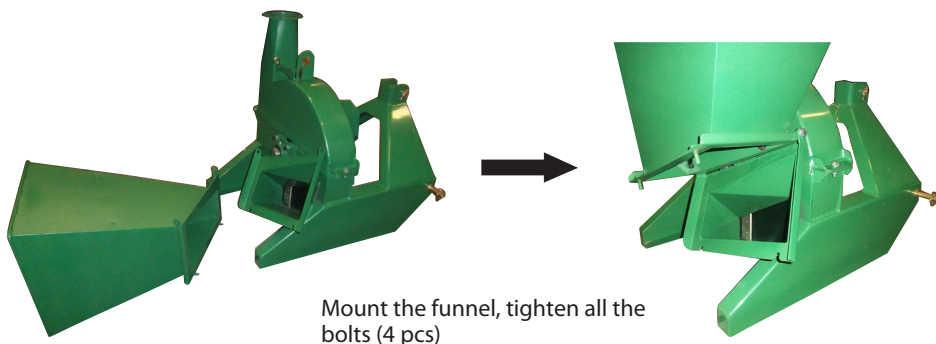
### IMPORTANT!

When adjusting the knives, it is important that the cutting blades do not touch the counter knife and cutting distance is the same on all of them. Always check that all the fixing bolts are tightened

For better chip quality adjust the cutting size to the material. Reduce chip size when chipping small and tough material such as pine branches. When chipping larger materials in the machine as logs, the chipping size should be increased.



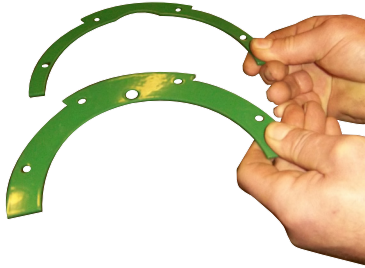
## MOUNTING INSTRUCTION



Mount the funnel, tighten all the bolts (4 pcs)



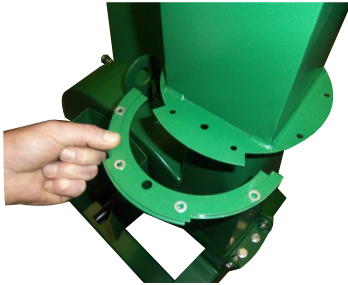
## MOUNTING THE CHUTE



It should be 2 spacers between the discharge chute and lower part of the ejector. Spacers are divided into two parts (half moon)



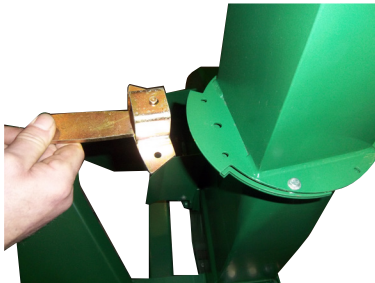
The narrow plate must be above the other and washers must be placed on top.



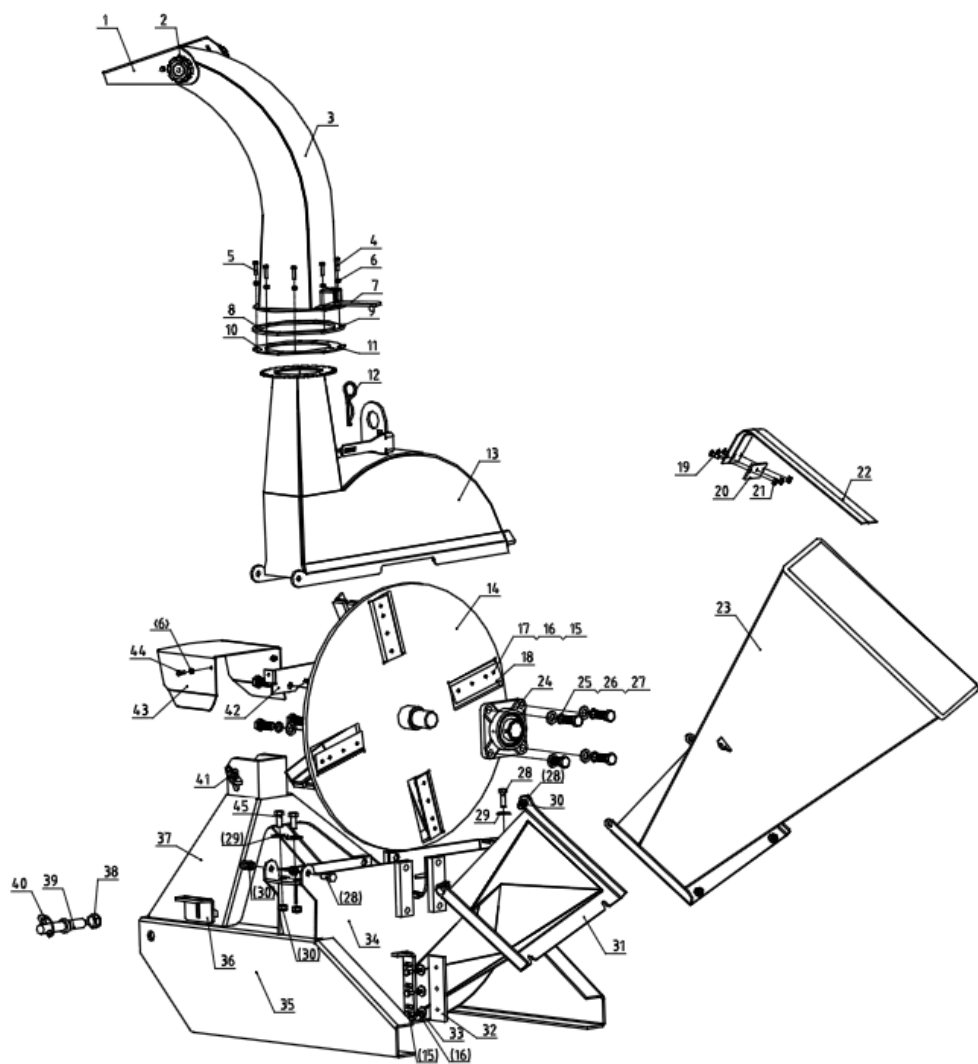
Mount the distance, do not forget the washers. NOTE! Do not tighten the bolts yet.



Fit the spacers on the other side



Ejector part is rotatable. Install ejectors adjustment lever. Install all bolts (8 pcs) and tighten! NOTE! Do not tighten the bolts too tight. Tighten them enough so you can easily turn the chute. Rotate the chute by pulling the lever, and then turn the chute to the desired angle.



No	Description	Amount	No	Description	Amount
1	Screen	1	24	flange bearings UCF208	2
2	Locking nut - Screen	2	25	Washer Ø14	8
3	chute	1	26	Lock Washer Ø14	8
4	Bolt M6x25	2	27	Bolt M14x40	8
5	Bolt M6x20	6	28	Bolt M12x30	5
6	nut M6	10	29	Washer Ø12	3
7	Adjustment lever	1	30	nut M12	6
8	spacer ring	1	31	Lower strutt	1
9	spacer ring	1	32	Anvils - knife	1
10	spacer ring	1	33	Washer Ø8x24x2	3
11	spacer ring	1	34	lower cover	1
12	R-pin Ø4	1	35	frame	1
13	top cover	1	36	twig breaker	1
14	chipper disc	1	37	3-point linkage	1
15	Bolt M8x20x1,5	16	38	Nut M22	2
16	Lock Washer Ø8	19	39	speed monitor	2
17	Washer Ø8	16	40	Clamp Ø11	3
18	knife	4	41	Locking pin	1
19	Bolt M8x20	3	42	knife	1
20	iron plate	1	43	PTO-shaft protection	1
21	nut M8	8	44	Bolt M6x16	2
22	Mud flaps	2	45	Bolt M12x35	2
23	Feeding hopper	1			



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.

<b>Buyer:</b>	<b>Customer number:</b>
<b>Adress:</b>	<b>Invoice number:</b>
<b>E-mail:</b>	<b>Phone nr:</b>

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

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**Problem description:**

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**Describe the sequence of events:**

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**Other:**

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*Submit Complaint form and photo to:*

*Kellfri AB*

*Division of Services : Contact Kellfri retailer*

*Or e-mail service.*

*info@kellfri.se*

<b>Signature:</b>	<b>Date:</b>
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## WARRANTY TERMS AND CONDITIONS

Validity of the warranty - Kelfri'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: 13-WC 10

Type: Chipper

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



Tina Baudtler, VD 2015-07-13

*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

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