

13-EEWCPT0 FIREWOOD CHOPPER PTO



Kellfri

Read this manual carefully
before using the product!
Translated from the original

TABLE OF CONTENTS

Introduction	3
Product information	3
Technical data	3
Intended use:	3
Safety information	4
Product safety information	5
Warning labels	6
Surroundings	7
Connecting the machine	8
Before use	9
Operation	9
Chopping firewood	10
Adjusting the chopping length	11
Transport and storage	12
Troubleshoot	13
Complaint form	15
EC-declaration of conformity, original	16

INTRODUCTION

Thank you for choosing a product from Kellfri AB. By following general safety information, operating instructions and common sense, you will have many years of enjoyable use of the product. Kellfris equipment and products are aimed to be use by active farmers with high demands on functionality.

PRODUCT INFORMATION

- L x W x H: 210 x 65 x 122 cm
- 10 cm capacity
- Cutting length max. 25 cm
- 3 metres in 3 seconds
- 235 kg

Highly efficient, fast and simple

This firewood chopper is the only one of its kind – it offers high efficiency converting logs into firewood in just a few seconds. A log 3 metres long and about 10 cm thick is turned into firewood in just 3 seconds.

It is the only model on the market that cuts the wood with a guillotine optimally designed to cut the wood into several pieces. You decide on the length yourself, up to 25 cm. The firewood chopper can handle trunks 10 cm thick, and the power requirement varies according to the type of wood. For birch, for example, 50 hp is sufficient.

The firewood chopper is fitted with a protective cover for protection against wood chips. Simple design – you can open the side of the gearbox for servicing etc.

Thanks to the firewood chopper's long hopper and its stability on the ground, you can work quickly and safely.

PTO-shaft not included.

TECHNICAL DATA

13-EEWCPTO

Total eight	1220 mm
Length	2100 mm
Width	650 mm
Cutting length	max 25cm
Weight	235 kg

INTENDED USE:

Only intended for cutting firewood. The machine is defined as single purpose equipment. This means that the machine is only allowed to be operated by one operator.



Danger! The machine can be dangerous when using incorrectly. Therefore, it is required that the operator has sufficient knowledge on how the machine works and functions and how to operate it.

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.



WARNING!

The machine's original design must not under any circumstances be changed without the permission of the manufacturer. Unauthorized modifications and / or accessories can result in life-threatening or fatal injury to the operator or others.

Warning symbols identify important safety aspects in this manual to help you and others avoid hazards and accidents. When using the machine: Take extreme caution!



Danger!

This symbol indicates that a serious accident will occur if the instructions in the manual is not followed. The accident resulting in serious injury, possibly death or serious property damage.



Warning!

This symbol indicates that an accident will occur if the instructions in the manual is not followed. The accident resulting in serious injury or property damage.



CAUTION!

This symbol indicates that an accident could occur if the directions is not followed. The accident resulting in personal injury or property damage.

Note!

NOTE! indicates the potential for machine breakdown of the regulations is not followed.

When using the machine in a company, the employer has the responsibility to ensure the user of the machine has theoretical and practical knowledge of the machine and the operation is done safely. Follow the country's Health and Safety regulation. For more information, contact your Health and Safety Executive.

PRODUCT SAFETY INFORMATION

- Please read the operating instructions carefully before using the machine
- The machine is only intended to be used outdoors.
- Keep the work area free from bystanders, moving parts increases the risk for accidents.
- Respect the risk zone! Risk zone 15m around the machine and tractor ! Only the operator may stay near the machine during operation.
- Children are never allowed to be in the work area, never allow children to handle the machine.
- The equipment works best and safest when it's used in the capacity that it is intended for, do not try by any means to increase the capacity of the machine.
- Never overload the machine!
- Never leave the machine unattended whilst it is running. Switch off the tractor engine and pull the parking brake when leaving the work area - even for a short while.
- Stand still and do not stretch over the machine whilst it is running!
- Do not move the machine whilst it is running!
- Never leave the machine unattended whilst it is running!
- Make sure all guards are always fitted and can not loosen prior to operation.
- The power take-off shaft shall be covered throughout its length
- Be sure to secure the safety chain well.
- Always disconnect the machine before performing any maintenance or service.
- **DANGER!** The machine must not be used without the feed hopper!
- Do not operate the machine if excessive vibrations occur, stop the machine immediately and check the error.
- The machine may only be used when all safety precautions are taken
- **WARNING!** Do not climb on the machine!
- **DANGER!** NEVER try to remove things that stuck in the chopper whilst it's running! Make sure the machine has stopped spinning before any action is taken. Wait at least 5 minutes.
- NEVER stick any body part into the machine whilst it is running.
- The machine may only be lifted on intended lifting points. Use only suitable lifting equipment with sufficient lifting capacity to lift the machine.










Warning!

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 LABELS

Make sure that the warning labels are always visible, clean the warning labels if necessary. Do not wash with high pressure washer directly on the warning label. If any part of the decal is worn or label becomes frayed or otherwise unreadable, order new decals.

Symbol	Explanation
	Read the user manual! Before starting the operation.
	Warning! Prohibition of staying in the risk area! Risk zone 15m! No one must be nearby during operation WARNING! Children are not allowed in the work area!
	Warning crushing hazard! No one is allowed to stand underneath any suspended load!
	Warning for rotating PTO shaft and other rotating parts. Risk of serious injuries when caught in rotating parts.
	The machine is intended for single purpose use only No one is allowed to stand behind the tractor when connecting or disconnecting the machine Warning! Do not climb on the machine
	Warning! rotating knives!
	The product 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 machines with rotating parts. Wear protective gloves, to prevent burn injuries 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.



IN CASE OF EMERGENCIES

Turn off the tractor engine!

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 accessible during all work, maintenance and service.

SURROUNDINGS

Make sure your working area is clear from people, children and objects before attaching, connecting 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 products such as this product. Never have junk lying in your area. Keep working areas clean. Always respect the risk zone.

**Danger!** Children in the area should be supervised.

Keep the workplace clean and free of obstacles or debris to minimize the risk of accidents. Debris or other materials lying around that may be in the way during operation may result in accidents.

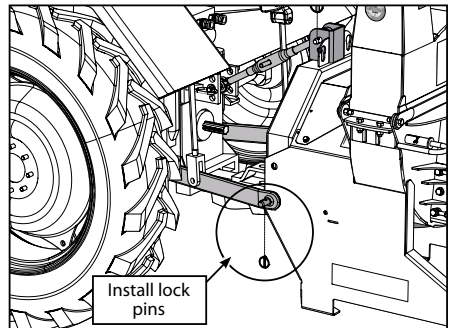
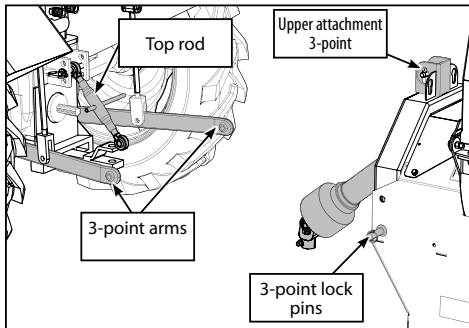
If chopped firewood is gathered on a pile (without using collecting containers), make sure the wood pile does not get too high so that it falls on you. Have your workspaces clean. Always respect the machine's risk zone.

CONNECTING THE MACHINE TO YOUR TRACTOR

This section describes how to attach and connect the machine to the tractor's 3-point hitch and PTO. The machine is attached to CATEGORY 1 three-point hitch. To extend the lifespan and for a safe operation, the PTO shaft should be mounted as straight as possible when the equipment is in its operating mode (down on the ground).

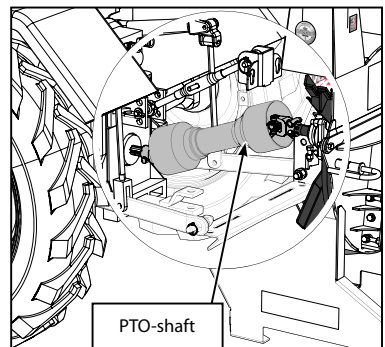
Do the following steps when attaching to a tractor:

1. Make sure no other people are in the area, especially children
2. Make sure there is enough space when backing up to the machine
3. Make sure the tractor's three-point arms are in its widest position
4. Back up slowly until the machine is right angled with the tractor
5. Park the tractor, pull the parking brake, step out and locate the attachment points on the machine
6. Raise or lower the 3-point arms to get them at the same height as the attachment of the machine
7. Go back inside tractor and make the necessary adjustments (up / down)
8. Slowly drive the tractor until the arms of the tractor and the pins on the machine are in line
9. Park the tractor with parking brake on, step out, make more adjustments if needed and mount the locking pins on the machine.
10. Mount all locking pins
11. Mount the turnbuckle on top of the machine's 3-point attachment
12. Adjust until the machine is on level



13. Connect the PTO shaft onto the tractor
 - A. Pull back the PTO guard and connect the PTO shaft onto the tractor's splines
 - B. Make sure the locking bearing clicks into the spline's shaft - this ensures the PTO is locked in place

NOTE! Make sure that the telescopic part of shaft is clean and lubricated.



NOTE! To adjust the length of the PTO shaft, please read the PTO's instruction manual

14. Lift the equipment slowly and make sure that the length of the PTO shaft is enough and that the angle differences is not too big - the level height between the tractor and the machine.
15. Adjust so that the machine is on level, up and down and side to side
16. Make sure that the machine stands stable, use outriggers if necessary

BEFORE USE

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

Always check the performance and the machine combination that are used. It's highly important these matches in a satisfactory manner. This is to ensure the product or the function and most important yours and others safety. Do visual inspection of equipment or product before each use. Fix or replace damaged or worn parts immediately to reduce the risk of injury. Lubricate moving parts and check that all screw-nuts and bolts are tightened.

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.

Read the tractor's manual before connecting machine

OPERATION

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 equipments that are defined as single purpose equipment. Never overload the implement. Respect the equipment's danger zone.

- Always place the chopper on a stable flat surface.
- Connect the PTO- shaft to the power take-off of the tractor. The PTO shaft should be protected over its entire length. Anchor the chain well.
- Use common sense when using the machine. If excessive vibration occurs while driving, stop immediately and check the machine. The machine may only be reused when the error has been rectified
- The tractor's engine functions as the emergency stop



WARNING!

Never use a tool or product with defective safety equipment.



WARNING! The machine may only be maneuvered by one person

CHOPPING FIREWOOD

- **DANGER!** The machine starts as soon as the PTO is engaged!
- **Warning!** The machine's knives are steered by the PTO's rotation and therefore rotates very fast! It is therefore important that you let go of the log as soon as you feel the knives had grabbed the log. Set the tractors speed on 540 rpm.
- Start chopping by inserting the log into the hopper. Let go as soon as the log reaches the knives located at the end of the hopper.
- **CAUTION!** BE careful when chopping hard/twisted type of wood. Some wood can crack and fly off which can result in injuries.
- If anything get stuck inside the machine: Turn off the tractor engine and wait at least 2 minutes to make sure all rotating parts had stop moving. **WARNING!** Never try to pick out anything that get stuck inside the machine whilst its running!
- Never put any body parts inside the hopper whilst the machine is running!



- The hooks on the discharge chute is use to hang firewood bags. If firewood bags are use to collect the firewood, the machine must be shut off when mounting and removing the bag.



WARNING! Crushing hazard! If the wood get stuck during operation: Switch off the tractor engine and ensure that the PTO-shaft has finished spinning before performing anything on the machine. NEVER stick in the hand or other body part, or attempt to remove the stucked wood whilst the machine is running! After the PTO has stopped turning open the cover of the knives and remove the jammed wood. If you need to hit the wood, use suitable tools eg. a rubber mallet, never use your hands!

NOTE! The quality of the wood may affect the chopping performance of the machine.

Adjusting the chopping length

The cutter knives determine the cutting length of the wood

As standard the machine is delivered with 4 knives / rollers, the cutting length is approximately 7cm. Adjust the cutting length by disassembling 2 knives from each rollers- cutting length will be about 25 cm.



Open the knife guard cover

take off the discharge chute



Open the safety cover for the gearwheels



fig. 3



1. Remove a knife, then rotate the knife roller by turning the gears (Figure 3)
2. Then remove the knife on the corresponding side
3. Repeat the same procedure on the lower knife roller (Figure 4)
4. Reassemble the discharged chute and the protective covers.

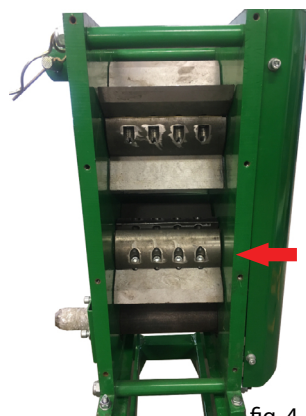


fig. 4

TRANSPORT AND STORAGE

Check that the area is free of persons, children and objects prior transportation. Always take precaution when transporting and moving the machine. Make sure that the equipment or product is well anchored and that existing transport safety lock are fitted. Always place the load as low as possible. Always have the risk zone in mind when transporting and moving the machine. When lifting the machine nobody is allowed to stand underneath suspended load. Trailers used for transport should have functional brakes.

- When moving or during transport, be aware of the machine's length and weight, the machine attached to the 3-point affects tractor stability. Make sure the machine can not loosen during movement and ensure that you have sufficient ballast in front of the tractor.
- Drive slowly when making sharp turns especially when driving on uneven terrain.
- Never let anyone climb or ride the machine or hang on the machine.
- Inform yourself of the rules applicable to public transport and by means follow these rules
- Perform service and maintenance if the machine is to be stored for a long period of time

Always store the machine or product in a dry place, preferably underneath a roof when not in use. Make sure that the equipment or product is standing steady and there is no risk for it to tip over. **Never allow children to play where the machine is stored. Keep in mind the risk of tipping!** When storing a machine, it should be cleaned and all bearings and knives are lubricated.

MAINTENANCE AND SERVICE

Make sure the implement is stable and there's no risk of falling over during maintenance and service. Replace damaged and worn parts immediately to reduce the risk of machine failure and injuries. Perform maintenance, service and inspections as recommended. Use only spare parts with equivalent performance to reduce the risk of damage and failure.

- Check that all bolts and nuts are tightened after maintenance and service.
- Always test the machine before starting work.

SERVICE	INTERVAL	Measure to be taken
Knives	Regularly, preferably before each run	Check that the knives are not worn or damaged
Nuts and bolts	Regularly, preferably before each run	Check and retightened
Moving parts	After each run	Clean and lubricate

TROUBLESHOOT

ERROR	Probable cause	Measure to be taken
The machine does not start	PTO-shaft not correctly attached or not engaged	Check tractors PTO output and the PTO shaft
Machine does not have enough power to grab and cut the log	Rpm too low, PTO shaft is broken or knives are worn/damaged	Check the tractor's rpm: 540 rpm is recommended Check the PTO-shaft and the knives. Replace all worn/broken parts. The machine may not be use until all faults are rectified
Excessive vibration occurs during operation	The machine is not correctly connected to the tractor's three point. The PTO shaft's angle to the machine is far too large. Incorrect setting of knives.	WARNING! The machine must not be used if large vibrations occur. Check the knives, check that the machine is correctly mounted on the tractor's three point. Check the PTO-shaft.

Kellfri AB is constantly working to further develop its products, and therefore reserves the right to make changes on the design and aspects without further notice.

RECYCLING

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

Kellfri

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?
--	---	--

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
Munkatorpsgatan 6
532 37 Skara

Or e-mail service.
info@kellfri.se

Signature:	Date:
-------------------	--------------

KELLFRI AB
Munkatorpsgatan 6
SE-532 37 SKARA
Phone: +46 (0)511-242 50
Fax. +46 (0)511-168 33

Web
www.kellfri.se
E-mail
info@kellfri.se
Issue:: 2014-01-01

WARRANTY TERMS AND CONDITIONS

Validity of the warranty	- Kellfri'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	<ul style="list-style-type: none">• Labour costs• Travel expenses• Any modification that the buyer himself has/had made.• Any consequential damages that occurred due to 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

EC-DECLARATION OF CONFORMITY, ORIGINAL



According to 2006/42/EC, Annex 2A
Kellfri AB
Munkatorpsgratan 6
532 37 Skara, Sweden

Declares that the machine

Name: 13-EEWCPTO

Type: Firewood chopper PTO

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

Kjell Johansson
Product Development Manager

CUSTOMER SERVICE

*You are always welcome to give your feedbacks, reviews or ask us about our equipment and products.
Kellfri AB is constantly working on further developing their products and therefore reserves the right to modify, among other things the design and appearance without further notice.*