



Kellfri[®]

13-KW340 COMBINED MACHINE



PLEASE READ ALL INSTRUCTIONS BEFORE USING THE PRODUCT!!

TRANSLATED FROM THE ORIGINAL

INTRODUCTION

Thank you for choosing a product from Kellfri AB. By following the general safety information, instruction manual and common sense you will get many years of enjoyable use of the product. Kellfri's tools and machines are aimed for farmers with high demands on functionality.

PRODUCT INFORMATION

KW430 Combined machine is equipped with a electric chainsaw, Bar Oregon and Oregon Chain, The chainsaw can handle up to 34 cm thick logs. The machine can split logs into 2 or 4 pieces. The height of the knife is adjustable. The machine is equipped with a hitch and 3 phase inverter as standard.

The electric chainsaw must be connected to a separate 230 V outlet.

| TECHNICAL INFORMATION | 13-KW340 |
|-------------------------------------|-----------------------|
| Cutting diameter | 340 mm |
| Cut length | 600 mm |
| Compression Force | 7 ton |
| Engine | 4 kw |
| rPM | 1400 rpm |
| Fuse | 16 amp |
| Hydraulic oil tank | 35 l |
| Oil flow | 26 l/min |
| Electric saw | 2,2 kW |
| Blade lenght | 400 mm |
| Chain | 3,25 |
| Wheel | 600-9 |
| Towing | 50 mm kula |
| Three-phase with the phase inverter | Standard |
| Length x Width x Height | 3000 x 1100 x 1250 mm |

USE OF PRODUCT

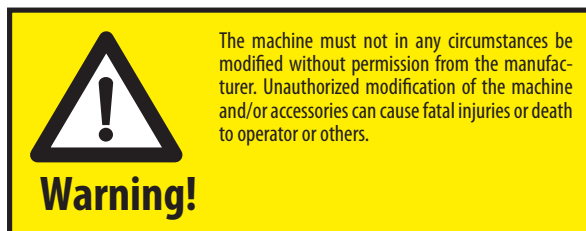
Only for cutting and splitting logs. The machine is for outdoor use only.

FOR YOUR SAFETY

Before using this 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 unreadable, please contact and order a new one from your supplier

The general safety instruction is also available from Kellfris website: www.kellfri.se
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 regulations and regulations and the rules of the Animal Welfare Act. Persons under 15 years old and people with mental illness may not use these tools.



SAFETY WARNINGS

- Read the manual carefully before using the machine.
- The machine should only connect on 3-phase 400V grounded outlet. The outlet shall be installed by a qualified electrician.
- For your own and others safety, make sure that circuit breaker is installed.
- Keep working area free from other people. Moving parts increases the risk of accidents.
- Do not use or store the machine on a place exposed to rain or moisture.
- Make sure the working area is well lit.
- Do not use electrical equipment near inflammable gases or liquids.
- Children must never be present within the work area, never let children handle machines, tools or extension cords.
- Use the machine only within the capacity it is meant for. Do not increase the capacity of the machine!
- Stand firmly, never bend over the machine when it is running.
- Check the cords and extension cords periodically, to ensure that no damage has occurred.
- Unplug the power cord when the machine is not in use and during maintenance/service.
- Make sure the power switch is turned off (OFF) before power is connected.
- Never overload the machine.
- Do not move the machine while it is running.
- Never leave the machine unattended when it is running.
- Do not allow any person to be near the chainsaw when starting and stopping.
- Keep bystanders and animals out of the workplace.
- Keep away all body parts from the chainsaw when it is running.
- Never use the chainsaw if it is damaged, improperly installed or not correctly set.
- Make sure that the chain stops moving when you release the button.



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 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.

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.

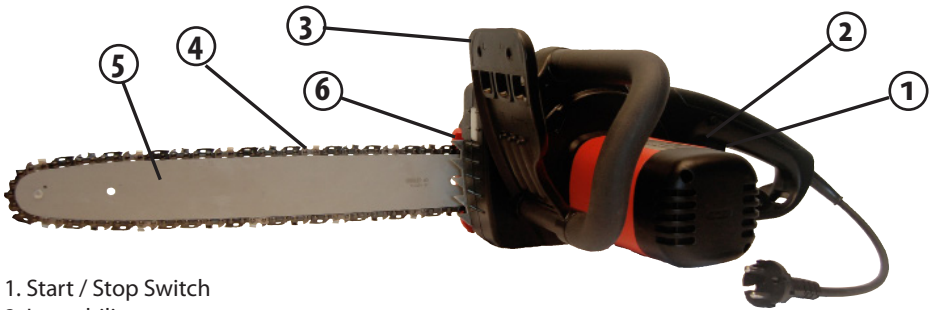


WARNING SIGNS AND LABELS

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/ broken stickers should be replace. Order new stickers from your supplier.

| SYMBOL | SPECIFICATION |
|---|---|
|  | Read the instructions manual before using the machine. |
|  | Warning! High voltage! |
|  | Beware of thrown objects! Be aware of the equipment's danger zone! |
|  | Warning! Risk for injuries! |
|  | Warning! Prohibition to sojourn on the machine! |
|  | Warning! Risk for accident! Children must not be in any circumstances be near the machine. |
|  | The machine is CE-labeled |
|  | WARNING! In case of electrical fault, contact certified electricians! |

ELECTRIC CHAINSAW



- 1. Start / Stop Switch
- 2. Immobilizer
- 3. Hand guard
- 4. Chain
- 5. Guide bar
- 6. Oil tank cap

THECNICAL INFORMATION 13-KW109

| | |
|-------------------------|-------------|
| Max power | 2,2 kW/3 hp |
| Cutting length 16 "(mm) | 400 |
| Oil, Volume (ml) | 270 |
| Blade size (in) | 16" |
| Chain pitch (in) | 3/8" |
| Chain spåvidd (in) | 0,058" |
| Weight | 5,5 kg |



Warning!
The machine can be dangerous when it is use carelessly or incorrectly . This can cause serious injury or even death.



DANGER!
Be aware of kickback!



Read the instruction!



Förbiden to use the machine when it's raining and in bad weather



Always use safety guards



Switch off and unplugg whenever you leave the machine



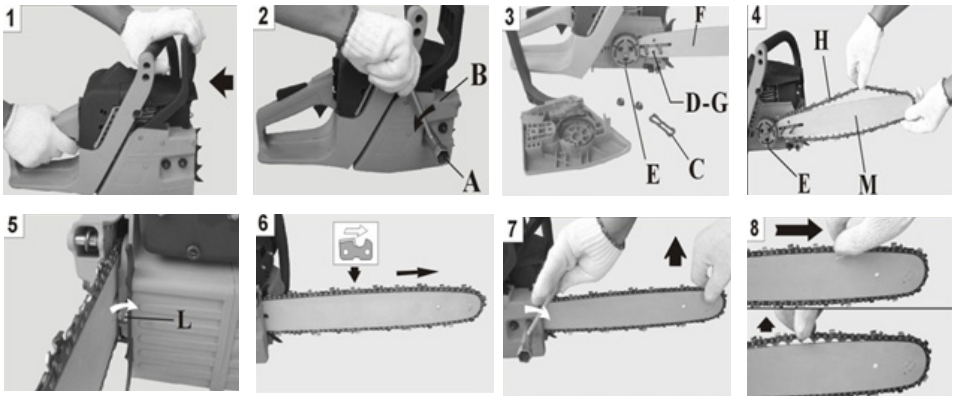
Loud sound coming from the machine. use hearing protection



CE-label

PRODUCT SAFETY INFORMATION

- Before using the product for the first time, you should know how it works. If it is possible, learn the proper use of the machine from a person with experience.
- Do not use in conditions such as; rainfall, thunderstorms and strong winds, or when the weather conditions make it unsafe to use this product.
- Do not allow other person to be near the chainsaw when starting and stopping it. Keep bystanders and animals out of the working area.
- Keep all body parts away from the saw when the engine is running.
- Before starting the engine, make sure that the saw is not in contact with any objects.
- Do not use a chainsaw that is damaged, improperly adjusted or not correctly installed.
- Make sure that the chain stops moving when the throttle is released.
- Follow the instructions in the manual on how to start a chain saw and make sure to hold the chain saw with a firm grip on the handles.
- Keep handles dry, clean and free from oil. A chainsaw should never be carried around with the engine running.
- When transporting your chain saw you must use appropriate protective guards which should be provided for the guide bar or chain.
- Protection against kickback hazard. Kickback occurs when the bar makes an upward movement. This occurs when the chainsaw, at the front of the bar, come into contact with an object. Kickback can cause you to lose control of the saw and can be very dangerous.
- A chainsaw is intended to be use with two hands. Careless use of the chainsaw can result a serious injury to the operator, helpers, and / or by standers.



- Pull the cover (Fig. 1) towards the front handle to check that the chain brake is not activated.
- Remove the screw-nuts (A) and the chain guard (B) (Fig. 2)
- Remove and discard plastic spacers from the pins (C) (3)
- Move chain tension pin (D) all the way to the gear (E) (Fig. 3) using chain tension screw (L) (Figure 5).
- Place the bar (F) on the pins so that tension pin (D) fits into the groove (G) (Fig. 3)
- Install the chain (H) on to the gear (E) and around the guide bar (M) (Fig. 4)
- Pay attention to the chain direction (Fig. 6)
- Reinstall the chain guard and nuts, but do not tighten them completely.
- Tighten the chain using by turning tensioning screw (L) (Figure 5)
- Keep the top of the bar upwards and tighten the nuts completely on the chain guard (Fig. 7).
- The chain should be taut but still can move (Fig. 8)
- The chain is correctly tensioned when it can be pulled up by a few millimeters (Figure 8)

BEFORE OPERATING

- Check the working area, the object to be cut and the cutting direction.
- Before you begin cutting, make sure that the working area is cleared.
- Take care and keep bystanders and animals away from the area within 5m in diameter.
- Make sure the machine is not worn out, have loose or damaged parts. Do not use if damaged, incorrectly, or if not installed correctly. Make sure the sawchain stops moving when the throttle is released.

CHAIN OIL

Use lubricating oil intended for the chain saw.

Use of proper lubricating chain-oil when cutting limits wear to a minimum between the chain and the guide bar. This prolongs the life of the product. Always use oil of good quality.

NOTE! Never use discarded oil. Always use a biodegradable environmentally friendly lubricant designed for bar and chain, gentle both to nature and chainsaw parts.

HAND GUARD

This saw is equipped with a chain brake that stops the chain in the event of a kickback. You must check the chain brake before each use by running the saw at full throttle for about 2 seconds and pushing the front hand guard forward.

The chain should immediately stop the engine at maximum speed. If the chain stops too slowly or does not stop at all, the brake band and clutch drum must be replaced before the saw can be used again. It is essential that the chain brake is properly checked before each use and that the chain is sharpened to maintain security on this saw.

Removal of safety equipment, inadequate maintenance or incorrect replacement the bar or chain may increase the risk of serious injury due to kickback.

CHAIN BRAKE

The machine is equipped with an automatic brake that stops the chains rotation when kickback occurs. The brake system is automatic and controlled by a mechanical force responsive to the weight of the front shield.

This brake can also be controlled manually with the front hood that folds down to the bar. Release the brake by pulling up the front guard toward the handle until a "click" is heard.

NOTE! BE THOROUGH WITH THE DAILY INSPECTION OF THE BREAK.

Checking the chain break:

- Turn off the engine.
- Hold the saw horizontally and let go of the front handle, let the guide come in contact with a tree stump or similar object and check that the brake is activated. Operating levels vary between different bar sizes. If the brake does not work, you must submit the saw for inspection and repair to your nearest dealer. The engine can be at high rpm for extended periods because of warmed up clutch which can lead to problems. When the brake is activated during operation, you must immediately release the throttle.

Before using the machine you must read the sections entitled "SAFETY" and "PRODUCT INFORMATION". We recommend that you start by practicing sawing smaller logs. This also helps you to learn the proper use of the chainsaw.

Always follow the safety rules. The chainsaw must only be used to cut wood. It is forbidden to cut any other types of materials. Vibrations and kickback vary between different materials and the requirements for safety are not met by cutting into other materials. Do not use the chainsaw as a lever to lift, move, or to share objects. Lock it in fixed positions. It is forbidden to assemble the tools or attachments that are not specified by the supplier.

It is not necessary to force the chainsaw to cut the log. Apply only light pressure while the engine is running at full throttle. Do not try to pull out the chain saw with violence if it gets stuck in the cutter, but use a wedge or a skewer to break up the log.

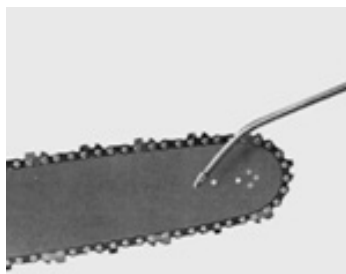
STARTING THE ENGINE

Plug the saw's power cord into an outlet. Start the chain saw by pressing the throttle. Always hold the saw firmly with both hands when the engine is running. Use a firm grip with thumbs and fingers around the handle. Keep all body parts away from the machine while the engine is running. Before starting the engine, make sure that the chain is not touching anything.



INSTALLING NEW CHAIN

New chains are stretched out and must be adjusted periodically. Adjusting the chain should only be done when the chain is cold. First lubricate the chain and bar with oil, then start the chain saw and put it on it's average speed. Make sure the oil pump is working properly. Stop the engine and adjust the chain's tension. Start the saw again and make a pair of cut on a log to warm up the chain. Stop the engine and let the chain cool and adjust again. Repeat this process until the chain gets the right tension. Do not touch the ground with the chain.



CHECK THE OIL PATTERN



Start the engine and drive chain on the average speed and see if the oil is spreading as shown in the picture

STOPPING THE ENGINE



Warning!

WARNING: Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a lightning fast reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious injury to user.

AFTER USE

Turn off the chainsaw and unplug the power. Clean the unit before storing. Be extra careful and make sure the air intake is free from dirt. Use a mild detergent and sponge to clean the plastic parts. Store in a dry place out of reach of children. Make sure the chain is clean when storing in a longer period of time and keep the chain saw guide bar chain oiled.



Warning!

Maintain safety.
Dangerous accidents may occur when:
Improper maintenance or removal of safety devices.
Always follow the instructions carefully

SAFETY MEASURES BEFORE OPERATING

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 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 keep a low speed until the person has learn the proper use of the machine/product. The user/customer is responsible to handle the situation correctly. Do not use the machine if it is experienced to be dangerous for the user.

- The machine is supplied with three-pole plug CEE 16A. The plug according to the law must be connected to a corresponding outlet, which should be installed by a qualified electrician.
- the machine is tested before shipping and delivered filled with hydraulic oil SHS 32, motor protection and mounted terminal glove.
- The chainsaw is to be plugged to a separate outlet (230 V)
- Place the machine on a flat, stable surface. Make sure it cannot roll or overturn.
- Lower the conveyor.
- Familiarize yourself with the machine without starting it.

PHASE INVERTER

After starting the log splitter, check the engine rotation. An arrow that indicates the direction of rotation is located at the rear of the motor. If the ram does not move forward, this is a sign that the engine is running in the wrong direction. Stop at once, check and change the engine's rotation.

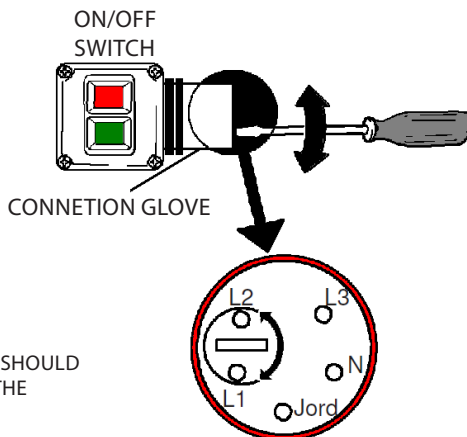
The direction of the motor rotation is changed simply by turning the phase inverter with a screwdriver.



ROTATABLE PHASE INVERTER WITH A SLOT FOR A SCREWDRIVER.



THE EMERGENCY BUTTON SHOULD BE MOUNTED ON TOP OF THE ON/OFF SWITCH





OPERATING THE MACHINE

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 tool 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 danger zone.

- Place the machine on stable flat surface.
- Plug the power cord into a grounded 400V and chainsaw on 230V outlet. Always check that the power cables and electrical connectors are not damaged before use.
- Check that the engine / hydraulic pump is running in the right direction. Rotation is changed easily with phase inverter that is mounted on the machine.
- Press the engine start button, then the machine is ready to use.
- After finishing the work, switch OFF the power and unplug.
- Switch OFF the power and unplug the machines when you leave even if only for a brief moment. This ensures that no one in particular children can access and maneuver the machine accidentally while playing.

CUTTING AND SPLITTING OF WOOD

- Make sure no one there's no hands or arms on the moving parts of the machine.
- Place the log on the roller pressing it towards the chain saw.
- Set the measurement to the desired length.
- Start cutting by moving the log towards the chainsaw.
- Start the chainsaw and bring it down to the log. When releasing the handle, the chain should stop moving.
- Press lever forward to move the pressure plate towards the wedge.
- The pressure plate goes back to its initial position when the log is splitted and the valve reaches the endpoint.

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!

Kellfri disclaim any responsibility for self-made modifications, alterations or conversions of the product.

ALWAYS REMEMBER!

- Work alone, concentrate and always use common sense.
- Use working gloves, safety glasses and shoes with steel cap.
- Do not wear loose or hanging clothing that can be drawn into the machine.
- Always connect the hydraulic pressure hoses correctly.

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.

Check all nuts and bolts are tightened after performing maintenance and service.

Always test the machine before using it.

| SERVICE | INTERVAL | ACTION |
|----------------|--|--|
| Oil | Exchange after 10 h Thereafter every 50 h or once a year | Oil Change <ul style="list-style-type: none">• Use hydraulic oil ISO 32 or 46• Draining the tank is done by removing the drain-plug under the tank.• Fill through the filler plug on top. |
| Bolts and nuts | Check regularly, preferably before each use | Check and retighten all bolts and nuts |
| Moving parts | Regularly | Lubricate moving parts on a regular basis |
| Chainsaw | Regularly | Check the condition of the following parts: Gear: check for abrasion and/or cracks Guide bar: Check for abrasion. Chain: The cutting links must be kept sharp for the machine to cut efficiently. Sharpens if requires. |

TROUBLESHOOTING

| ERROR | PROBABLE CAUSE | ACTION |
|----------------------------------|--|---|
| The piston is not moving forward | Low or no pressure in the system The engine rotates the wrong way | Check oil pressure and level. check if there's a leak age in the system. Check the engine rotation and reverse if requires |
| The machine doesn't start | Fault with the power source The machine is not correctly plugged | Check the power source Check and plug the machine correctly. |
| The machine don't have the power | Low or no pressure in the system | Check if there's leakage in the system. Check all couplings and hydraulic hoses. |
| Chainsaw is not working | The machine is not plug | Check and connect. |

RECYCLING

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



SPARE PARTS

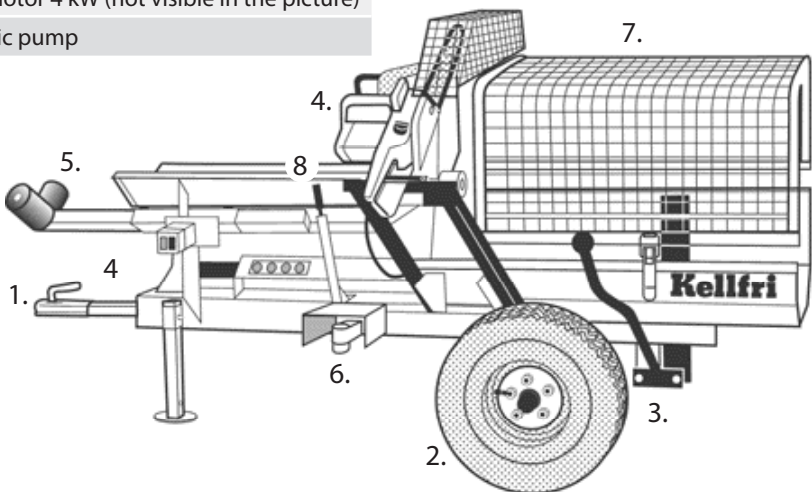
| | |
|---------------|--------------|
| R13-KW109.001 | Sågkedja 16" |
| R13-KW109.002 | Svärd 16" |

SPARE PARTS FOR KW340

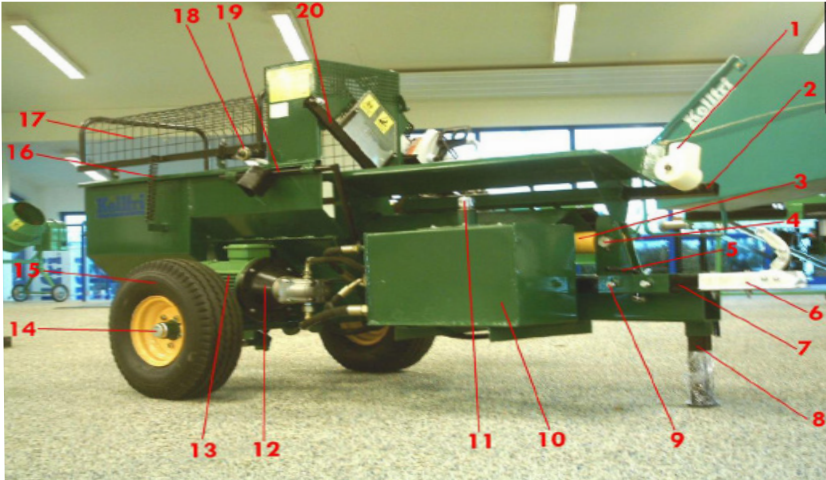
| |
|---|
| 1. Hitch |
| 2. Wheel, 600 - 9 |
| 3. Adjusting lever for the wedge |
| 4. Electric chain saw |
| 5. Log support with rollers |
| 6. Guard for the engine |
| 7. Cage |
| 8. Valve lever for the splitter |
| 9. Electric motor 4 kW (not visible in the picture) |
| 10. Hydraulic pump |

ASSEMBLY

- Mount the wheel.
- Mount the chainsaw holder.
- Install support stabilizer and the hitch.
- Install timber support.
- Tighten bolts.



KW340

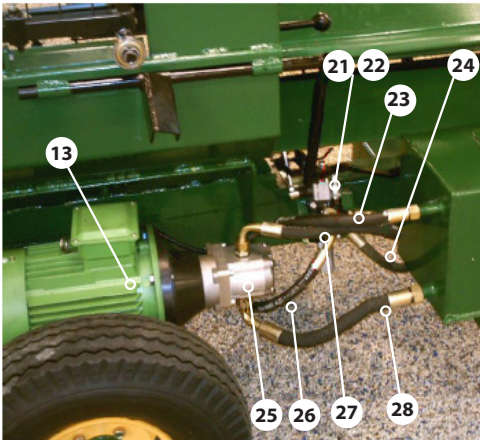


NR. SPECIFICATION

| | |
|----|----------------------------------|
| 1. | Rollers (plastic) 80/16 x95mm |
| 2. | Supporting arm |
| 3. | Cylinder 0 60/37 sl. 630 |
| 4. | Sprint 0 35 x95mm - cyl. bracket |
| 5. | Sprint 0 16 x100mm - drawbar |
| 6. | Towing hitch 0 50 mm |
| 7. | Drawbar 50x50 x950mm |
| 8. | Supporting leg 50x50 x400mm |

NR. SPECIFICATION

| | |
|-----|---|
| 9. | Bolt FZB M12x25 |
| 10. | Oil tank |
| 11. | Filler cup, Venting |
| 12. | bell housing-motor pump |
| 13. | Electric motor Y2 112M-4-4kW S1 1430 rpm 380V |
| 14. | Wheel hub cap |
| 15. | Wheel 600-9 |
| 16. | Tension spring w/ hook Ø 30 tr. Ø4x150mm |
| 17. | Cage |
| 18. | Ball bearing 6304 2RS |
| 19. | Valve assembly |
| 20. | Protection cover |
| 21. | Hydraulic valve |
| 22. | Valve housing (90°) |
| 23. | Hydraulic tube ½ L=370mm- 90° 90° coupling - inner threaded (Retur ,pump - tank) |
| 24. | Hydraulic tube ½ L=1050 mm 90° coupling - inner threaded (Pressure ,cyl- valve assbly) |
| 25. | Hydraulic pump |
| 26. | Hydr. tube ½ L=1000 mm |
| 27. | Hydr.tube ½ L=450 mm |
| 28. | Hydr.tube ½ L=350 rak 90° coupling - inner threaded (IN ,pump -tank) |



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.

EC-DECLARATION OF CONFORMITY

According to 2006/42/EC, Annex 2A

Kelfri AB
Munkatorpsgratan 6
532 37 Skara, Sweden

Declares that the machine
Name: Combined Machine
Type: 13-KW340

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

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.

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