

# Instructions for use

## Circular saw for firewood

Model: LCS700/400V





**The saw must not be put into operation before you read these instructions for use, follow the instructions given here and assemble the device as described. Translation of original operating instructions.**

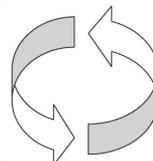
**Keep these instructions for further use.**

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## Caution

You must pay attention to the direction of rotation of the motor. The motor is briefly switched on for this purpose and then switched off again. When looking at the machine from the left hand side, the saw blade should turn in a clockwise direction (see the arrow showing the direction of rotation on the saw blade). If it does not, you must change the direction of rotation using the element for switching the phase on the connection plug. Use a screwdriver for this purpose and turn the switch on the plug by 180° (see pic.).



## Box contents

- 1 saw for firewood with cradle
- 2 wheels
- instructions for use

 After removing the packaging check the contents of the box to make sure they are

- > complete
- > there is no transport damage

Submit claims to the seller, supplier or manufacturer immediately. Claims made at a later date will not be acknowledged.

## Specific noise values

DIN EN ISO 3746/DIN EN ISO 11202

The machine is used as a saw for firewood with a cradle and a series saw blade.

	Acoustic power level (processing)	Acoustic pressure level at the workplace (processing)
LCS 700	$L_{WA} = 115 \text{ dB(A)}$	$L_{PA} = 99 \text{ dB(A)}$

Measurement uncertainty factor: 4 dB

The aforementioned values apply as emission values and may not represent safe values at the workplace. Even though there is a link between the emission and pollutant values, these cannot be used for reliable extrapolation of whether additional preventive measures are needed or not. Factors which may affect the current pollutant value at the workplace include the duration of noise, the specific properties of the workplace, additional sources of noise, etc., e.g. the number of machines and other processes taking place near the machine. Permissible values at the workplace may also differ depending on country. However, this information is intended to help the user to estimate danger and risks better.

## Operating times

Please abide by regional regulations for noise protection.

## Symbols on the machine

 <p>Read the instructions for use before putting the machine into operation and follow all safety instructions given in the instructions.</p>	  <p>Always switch the motor off and remove the plug from them mains before conducting repairs, maintenance or cleaning.</p>
 <p>Risk of injury to fingers and hands by the saw blade.</p>	 <p>Use protective gloves.</p>
 <p>Use protective goggles.</p>	 <p>Use protective working footwear.</p>
 <p>Use ear protectors.</p>	 <p>Use protective clothing.</p>
 <p>Use a mouth mask.</p>	 <p>Direction of rotation of the saw blade.</p>
 <p>Caution against the saw's hot surface. Risk of suffering burns! Do not touch the hot parts of the motor.</p>	
 <p><b>Do not dispose of electrical devices in household waste. In accordance with Directive 2012/19/EU of the European Parliament and of the Council on waste electrical and electronic equipment and transposition into national law, used electrical devices must be collected separately and recycled in an environmentally friendly manner. Recycling alternative to the demand to return electrical devices:</b>  <b>As an alternative to returning the electrical device, the owner is obliged to cooperate in ensuring that the device is properly recycled if ownership is relinquished. This can be ensured by handing the used device to a collection point which will dispose of it in accordance with the national legislation on recycling and waste. This does not apply to accessories and auxiliary equipment without any electrical components which are included with the used device.</b></p>	

## Symbols in the instructions for use

-  **Risk of danger or dangerous situation.** Failure to follow these instructions could result in injury or material damages.
-  **Important instructions for correct procedure.** Failure to follow these instructions may cause malfunctions.
-  **Instructions for users.** These instructions will assure in optimum use of all functions.
-  **Assembly, operation and maintenance.** These are detailed explanations on how to proceed.

## Use in compliance with the machine's purpose

- The machine is suitable for cross-cutting firewood for home and non-commercial use.
- The machine must not be used to cut round timber less than 30 mm and over 240 mm in diameter, because such pieces of wood cannot be safely secured. Only good quality saw blades meeting EN 847-1 standard, of a diameter of 700 mm, may be used.
- Saws for cutting firewood with a cradle may only be used outdoors due to the absence of a vacuum attachment.
- Only pieces of wood, which can be safely placed and secured in the cradle, can be sawn.
- The machine must not be used with saw blades made from HSS steel (high-alloy high-speed steel) because this steel is hard and brittle. If the saw blade cracks there is a risk of injury and part of the saw blade being catapulted. Use in compliance with the purpose of the machine includes abiding by the terms of operation, maintenance and repairs as prescribed by the manufacturer and adherence to safety instructions according to the instructions for use.
- The relevant valid preventive regulations for operation and other generally acknowledged rules for occupational medicine and safety techniques must be adhered to.
- Any use outside the scope of validity of these rules is not considered use in compliance with the purpose of the machine. The manufacturer is not liable for damages of any type caused by such use: the user bears full liability.
- Arbitrary modifications of the saw eliminate the manufacturer's liability for damages of any type, incurred in relation to such intervention.
- The saw may only be prepared, used and maintained by persons who are familiar with it and are informed of the related hazards. Repairs may only be carried out by us, or our authorised servicing facilities.
- The machine must not be used in environments with a high risk of explosion or exposed to rain.
- Metal components (nails, etc.) must be removed from the material being sawn without fail.

## Residual risks

Even during use in compliance with the machine's purpose and adherence to all the relevant safety provisions, there may be residual risks on the basis of the design as determined by the purpose of use.

Residual risks can be minimised if principles according to "safety instructions" are adhered to and during "use in compliance with the machine's purpose" and according to the operating instructions. Thoughtful and careful work reduces the risk of injury to persons and material damages.

- Risk of injury to fingers and hands by the work implement (saw blade) or piece of wood, e.g. during replacement of the saw blade.
- Injury by catapulted pieces of wood.
- Recoil by the pieces of wood.
- Cracking or catapulting of the saw blade.
- Risk of injury by electric current during use of incorrect connection cables.
- Touching live parts when the electrical structural components are open.
- Negative impact on hearing when working for long periods without ear protectors.
- In spite of all the implemented preventive measures, residual risks, which are not evident, may also occur.

## Work safety

 **Woodworking machines may be dangerous during unskilled use. When using electric tools you must take basic safety measures to avoid the risk of fire, injury by electric current and injury to persons.**

**Read and adhere to the following instructions and to the preventive regulations of your professional organisation, or the valid safety provisions in your country for the protection of yourself and other persons against potential injury, before putting this product into operation.**

-  Pass these safety instructions on to all persons working with the machine.
-  Store these safety instructions in a safe place.

Become familiar with the machine before using it by reading the instructions for use.

**Be observant. Concentrate on what you are doing. Work with caution. Do not use the machine if you are tired or under the influence of drugs, alcohol or medicaments. A moment of inattention during use of this machine could lead to serious injury.**

- Avoid holding unusual positions. Assure a stable foundation and always keep your balance. Do not lean forward.

- Wear appropriate clothing:
  - do not wear loose clothing or jewellery, which could be caught in the moving parts
  - wear non-slip footwear
  - use nets on long hair
- Use personal protective equipment:
  - ear protectors (the acoustic pressure level at the workplace usually exceeds 85 dB (A))
  - protective goggles
  - protective visor
  - gloves when replacing the saw blade
- If possible, protective packaging should be used for transporting the saw blades.
- Only use the saw on a
  - solid
  - level
  - non-slippery
  - base, which is not exposed to vibrations.
- Keep the workplace tidy! Disorder can cause injury.
- The cutting machine should be installed on a horizontal and flat floor. The floor around the machine should be maintained and kept clean, free of particles, such as sawdust and cut-off trunk pieces.
- Take influences from the surrounding area into consideration:
  - do not expose the saw to rain.
  - do not use the saw in a wet or humid environment.
  - assure good lighting.
  - Do not use the saw near flammable liquids or gases.
- Never leave the saw unsupervised.
- People under 18 years old must not operate the saw.
- Other people in the area must be sufficiently far away from the saw. Do not let other people (particularly children) touch the machine or cables. These persons must remain outside your working area.
- Assume the correct work position. Stand in front, on the side for operation, facing towards the line of the saw blade.
- Only start cutting when the saw blade achieves the required saw revolutions.
- Do not overburden the machine! Work may proceed better and more safely within the specified performance range.
- Only operate the saw with fully and correctly attached protective equipment and do not modify anything on the machine, which could have a negative impact on safety.
- Do not use cracked saw blades or deformed blades.
- Only use sharp saw blades, because blunt blades not only increase the risk of recoil, but also burden the motor.
- Do not use saw blades made from high-speed steel (HSS), because this steel is hard and brittle – only use implements according to the EN 847 – 1 standard.
- Use of other implements and other equipment may result in the risk of injury. Make sure that the saw blade also has the correct dimensions given in the "Technical data" section and is suitable for the wood being sawn.
- Only cut one piece of wood at a time. Never cut several pieces at once or bundles of individual pieces. This poses the risk that the individual pieces will be caught by the saw blade in an uncontrolled manner.

- Make sure that the cut pieces cannot be caught and catapulted by the teeth on the saw blade.
- Do not use the saw for purposes it is not intended for (see use in compliance with the machine's purpose).
- Remove all nails and metal items from the wood to be sawn before cutting.
- Make sure that the wood to be sawn does not contain any cables, rope, etc.
- Only cut pieces of wood of dimensions enabling them to be safely secured when sawing.
- The maximum length of the material being cut must not exceed 1 m. The minimum length of the material being sawn must not be less than 20 cm.
- Only wood of a diameter between 30 and 240 mm can be sawn, so that it does not have to be turned and sawn from the other side to cut it through.
- Always keep a safe distance from the saw blade.
- The saw blade slows down gradually. Wait until it has stopped completely before you begin removing fragments, shavings and waste.
- Do not brake the saw blade by applying pressure from the side.
- Do not remove fragments, shavings and waste from the high-risk area of the saw blade with your hands.
- Remove cutting residue (as required) from the machine to avoid compromising safety at the workplace. The same applies to shavings – the shavings channel must be kept open.
- Switch the machine off and disconnect the mains cable from the socket during:
  - repairs
  - maintenance and cleaning
  - repairs of malfunctions (this includes removal of jammed fragments)
  - checking the connecting cables, to make sure they are not twisted or damaged
  - moving the saw
  - replacing the saw blade
  - leaving the saw unattended (even during a brief interruption of work).
- Take careful care of the saw:
  - Keep the implements sharp and clean to enable easier and safer work.
  - Follow the instructions for maintenance and instructions for replacement of implements.
  - Keep the handles dry and remove oil and Vaseline from them.
- Check the machine for potential damages:
  - Before using the machine protective equipment or slightly damaged components must be carefully inspected to make sure they will function correctly according to their purpose.
  - Check that the moving parts work perfectly and are not jammed or damaged. All components must be correctly assembled and must fulfil all the conditions for assuring problem-free operation of the saw.
  - Damaged protective equipment and components must be repaired professionally and replaced by

an authorised servicing workshop, unless stated otherwise in the instructions for use.

- Damaged or illegible safety labels must be replaced.

- Do not leave any spanners for tightening implements attached! Before switching the machine on, always check that all spanners and adjusting tools have been removed.
- Keep unused machines in a dry and locked area, out of reach of children.
- Keep the processed timber nearby the work site of the saw operation personnel.
- If you locate any defect of the machine, including separated safety devices or a detached saw blade, immediately report it.
- To prevent fires, you must comply with the given safety procedures related to cleaning, maintenance and regular removal of sawdust and dust.
- Observe maintenance, setup and saw blade repairs instructions of the manufacturer.
- Observe the maximal permitted rotational speed of the saw blade.
- Use correctly sharpened saw blades.
- Make sure that the used flanges comply with the given manufacturer specifications and are suitable for the given use.
- Do not remove any cut-off pieces or other workpieces from the cutting area while the machine is running, unless you use a pole designed for this activity.
- The operation personnel shall be sufficiently trained for the use, adjustments and operation of the machine.
- Make sure the machine and its parts do not uncontrollably tilt or shift during the machine's lifespan as a result of its transport, assembly, disassembly, liquidation or scrapping.
- The operation personnel must be informed about the conditions that have an impact on the noise of the machine (for example, saw blades that are designed with the purpose of noise reduction, taking care of the saw blade and of the machine, etc.).
- Dust exposure depends on the type of the cut material.

## Electric safety

- Connecting cables according to IEC 60 24 5 (H 07 RN-F) with a core cross-section of at least
- 1.5 mm<sup>2</sup> during cable lengths of up to 25 m
- 2.5 mm<sup>2</sup> during cable lengths of over 25 m
- Long and thin connecting cables reduce supply voltage. The motor does not achieve its maximum performance values and the machine's function is limited.
- The plug and the connecting elements on the connecting cables must be made from rubber, soft PVC or other thermoplastic material of a similar mechanical strength or be covered in such material.
- Protect yourself against electrical current. Don't let your body parts come into contact with earthed components.
- The cable plug must be protected against splashing water.

- When using the cable unwind it from the cable drum completely.
- Do not use the cable for purposes it was not intended for. Protect the cable from the heat, oil and sharp edges. Do not use the cable to pull the plug from the socket.
- When laying the connecting cable make sure that it is not disturbed, squashed, bent in a sharp angle and that the connecting elements cannot become wet.
- Extension cables should be regularly checked and replaced if they are damaged.
- Do not use defective connecting cables.
- Only use approved and appropriately identified extension cables outdoors.
- Do not use any makeshift electrical connections.
- Never bridge protective equipment or otherwise put it out of operation.
- Only connect the machine through a residual current device (RCD) (30 mA).
- Electrical connection or repairs to electrical components on the machine may only be executed by an authorised electrician or our servicing facility. Local regulations must be adhered to, particularly in relation to protective measures.
- Repairs to other parts of the machine must be carried out by the manufacturer or an authorised servicing facility.
- Only use original spare parts. Use of other spare parts and other implements could cause the user injury. The manufacturer is not liable for such damages.

## Assembly

### Assembly of the wheels

1. Attach one wheel (1) to each side of the axle of the prepared machine unit. Attach the wheels by fitting a washer and screw (2x screw M8x20, 2x washer A 8, 4).

### Preparation for putting into operation

 To achieve perfect function of the machine follow the instructions below:

- Situate the saw so that the following conditions are met:
  - outdoors
  - non-slip surface
  - no vibrations
  - horizontal surface and flat floor even around the machine, well maintained without any dirt
  - no risk of tripping
  - sufficient lighting
- To assure an even safer position when working with the saw, secure the saw against movement.
- Before every use, check:
  - the connecting cable for weak point (cracks, cuts, etc.)
  - do not use defective cables)
  - that the saw blade is in perfect condition
  - the cradle function

- tight of all parts, especially firm tightening the screw on shaft of the saw-blade

- Do not use cracked saw blades which are deformed.
- Do not use saw blades made from high-speed steel (HSS).
- Assume the correct position for operation of the saw. Stand at the front, on the side for operation, facing the line of the saw blade.

## Removal of the transport securing lock

2. Press the cradle (2) down in the direction of the saw blade. The securing hook (3) will disengage.
3. Flip the securing hook so that it sits on the axle
4. The cradle (2) with restoring spring (11) is automatically returned to its resting position.

## Putting the machine into operation

### Direction of rotation of the saw blade

-  Make sure that the direction of rotation of the saw blade complies with the direction of rotation specified on the guard (19).

### Choice of saw blade

-  When choosing the saw blade be aware that no blunt or damaged saw blades can be used and the bore diameter of the saw blade is 30 mm (follow the information on the model label on the machine)

### Supply mains

-  Compare the voltage given on the model label on the machine, e.g. 400 V with the mains voltage and connect the saw to the corresponding regulation socket. Use a CEE socket, 400 V mains voltage with residual current device (30 mA residual current device).

### Circuit breaker: 16 A slow

### Mains switch

**Do not use any machine, on which the mains switch cannot be switched on or off. Damaged switches must be immediately repaired or replaced by a servicing facility.**

### Switching the machine on

Press the mains switch - green button.

-  In the event of a power outage the machine is switched off automatically. Press the green button to switch it on again.



### Switching the machine off

Press the mains switch - red button. The saw blade will be stopped by the built-in brake within 10 s.

Make sure the brake is operational prior to cutting. Turn the saw on and let it run. Once running, turn the machine off and record the time it takes for the blade to come to a complete stop.



The machine must not be used if the brake is defective. This means cases when the saw blade needs more than 10 seconds to stop fully when the machine is switched off.

### Motor circuit-breaker

The motor is equipped with a circuit-breaker and is switched off automatically if overburdened. The motor can be switched back on after activities are ceased and the machine cools down (approx. 5 - 10 minutes).

## Working with the saw



Before commencing work follow the safety instructions to minimise the risk of injury.

- Are the saw blade and restoring spring in order?
- Is the work place in order?
- You must not put the machine into operation until you have read these instructions for use, adhere to all the instructions and the machine is assembled according to regulations!



Before modification or adjustment of the saw (e.g. before replacing the saw blade)

- switch the machine off
- wait until the saw blade stops
- remove the mains plug from the socket



Also adhere to the following important points:

- Stand away from the high-risk area.
- Place the wood in the cradle. Cut the piece of wood by applying uniform pressure.
- Never remove loose fragments, shavings, etc. with your hand.



You must follow all the safety instructions.

### Work instructions.

1. Secure the saw against movement.
2. Place the wood in the cradle.
  - You can cut wood up to a maximum diameter of 240 mm.
3. Now grip the handle (14) on the cradle with both hands and press the cradle evenly against the saw blade.

Do not make jerky movements! The notches in the cradle prevent the piece of wood from rotating when being sawn.



Do not press the cradle against the saw blade to hard, because this could reduce the motor revolutions significantly!

4. After cutting, the cradle automatically returns to its resting position as a result of pressure from the spring.



If the spring (11) breaks, the cradle is not automatically returned to its resting position. Replace the restoring spring, see "replacement of the restoring spring".



Never saw without the restoring spring or with a defective restoring spring!

5. Insert another piece of wood after you have finished cutting the previous piece.

## Maintenance and cleaning



### Before maintenance and cleaning

- switch the machine off
- wait until the saw blade stops moving
- remove the mains plug from the socket

Only the servicing facility may carry out expanded maintenance and cleaning, apart from work specified in this chapter. Safety elements removed for the purpose of cleaning and maintenance must be assembled again and inspected without fail. Only use original parts. Other parts may cause unforeseeable damages and injury.

### Cleaning



To make sure the saw functions properly follow the instructions below:

- Do not spray the machine with water.
- Only use a brush or vacuum cleaner to remove shavings from sawing and dust.
- Regularly clean all moving components and apply oil to them.



Never use vaseline!



Only use oil for sewing machines or ecological aerosol oil for example.

- Ensure that there are no traces of corrosion or resin on the saw blade.
- Remove resin residue from the cradle surface. Resin residue may be removed using standard products for maintenance and care.
- The saw blade is a component, which is subject to rapid wear and will become blunt after extended or frequent use.



Replace the saw blade or have it sharpened.



### Maintenance.

#### Replacement of the saw blade.



Remove the mains plug from the socket before replacing the saw blade.



### Risk of suffering cuts!

The saw blade is heavy and may be slippery. Use gloves when replacing the saw blade.

- Do not use saw blades made from high-speed steel (HSS).
- Do not use cracked saw blades or deformed saw blades.

- Only use well-sharpened saw blades.

**Risk of suffering burns! The saw blade remains hot for a short time after cutting has stopped.**

#### Replacing the saw blade:

1. Unplug the saw from the outlet.
2. Unfasten the chain with the spring cotter pin from the leg and release the follower rest with the latch.
3. Secure the cradle in the transport position with the latch attached to the leg.
4. Release the metal cover (12), secured by an Allen screw (A) on the saw blade cover.
5. Remove the nut (4) and washers from the securing screw (10) with a reverse spring (11).
6. Hold the cradle, slide the follower rest out and carefully tilt the cradle towards the ground.
7. Slide the locking pin in the hole in the cover (B) to secure the saw blade against turning.
8. Loosen the nut (6) with washers (7) on the blade and remove the flange (8) with the saw blade (5).
9. Put a new or sharpened saw blade on. Make sure the blade sits correctly on the rear flange and the blade teeth face the right direction pursuant to the direction showed by the arrow.
10. To assemble the blade, follow the above stated instruction in reverse order.
11. Hold the saw blade securely when you are replacing it. Secure the blade if you need to transport it. The saw blade is heavy and can be slippery. If you drop it, it can cause serious injuries.

**Attention:** To prevent injuries, always wear safety gloves when replacing the saw blade!

**Attention:** Once you replace the saw blade, do not forget to remove the locking pin from the blade cover!

#### Replacing the reverse spring:

Worn or cracked spring must be replaced immediately.

1. Release the metal cover (12).
2. Remove the nut and washers (4) from the adjustment screw. While doing so, hold the cradle securely.
3. Slowly tilt the cradle back.
4. Replace the washers (9) and the reverse spring (11).
5. Put a new spring and washers back on the securing screw (10).
6. Lift the cradle and slide the screw back through the hole in the saw leg.
7. At the same time, put back and fasten the metal cover (12) using the Allen screw.

If necessary, have another person to assist you.

8. Put the washers on and screw the nut back on the adjustment screw.

## Transport



**Remove the mains plug from the socket every time you need to move the saw.**



#### Before moving the saw:

1. Press the cradle to the saw blade.
2. Tilt the securing hook until it engages.

**Transport:** Grip the handle (14), put one foot on the axle and tilt the saw towards you.

The saw is easy to move in this position.

**Parking:** Put your foot on the axle and carefully park the saw.

## Storage



**Remove the mains plug from the socket**

- Store the unused machine in a dry and locked area, out of reach of children.
- Before storing for extended periods take note of the following points for extending the saw's service life and assuring ease of operation:
  - Clean the machine thoroughly
  - Apply ecological oil to all moving components.

**i** Never use vaseline!

## Warranty

Take note of the appended warranty declaration.

## Technical data

Model	LCS700/400V
Input power P1	4,0 kW
Mains voltage	400 V ~
Mains frequency	50 Hz
Saw blade Ø	700 mm
Saw blade bore Ø	30 mm
Saw blade thickness	3,2 mm
Wood Ø min./max.	30-240 mm
Weight	105 kg

## Spare parts

Use only original spare parts. Using other parts could result in damages of health or assets.

## Possible malfunctions



**Before repairing malfunctions always:**

- switch the machine off
- wait until the saw blade has stopped
- remove the mains plug from the socket



After repairing each malfunction put all the safety elements back into operation and check their function.

Malfunction	Possible cause	Removal
The machine does not start running after it is switched on	Power outage	Check the circuit-breakers
	Defective extension cable	Check the cable, do not use defective cables
	Motor or switch malfunction	Have the motor or switch checked/repared by an authorised electrician or have it replaced with an original spare part
The cradle does not function	The securing hook is not disengaged	Disengage the securing hook (3)
The machine stops during sawing	The saw blade is blunt	Replace the saw blade with a new one or have it sharpened
	The pressure on the cradle is too strong	Let the motor cool down and apply less pressure
The piece of wood to be sawn is squeezed when moving it forward or back	The saw blade is blunt	Take hold of the piece of wood and immediately switch the motor off
		Replace the saw blade with a new one or have it sharpened
Burns in cutting	The saw blade is blunt	Replace the saw blade with a new one or have it sharpened
The saw vibrates	The saw blade is deformed	Fit the saw blade correctly
	The saw blade is not properly mounted	The blade properly attach
The cradle recoil mechanism is not working	The restoring spring is broken or worn	Replace the restoring spring
The braking mechanism is insufficient (braking time >10s)	Defective brake	Have the switch checked/repared by an authorised electrician, or have it replaced with an original spare part
	Worn brake disc	
	Various causes	

## Description of the machine/spare parts

Item	Name
1	Wheel
2	Cradle
3	Support with pawl
4	Nut
5	Saw blade - hard metal - Ø 700 mm
6	Screw
7	Washer
8	Saw blade flange - front
9	Washer
10	Securing screw
11	Reverse spring
12	Metal cover
13	Locking pin

Item	Name
14	Handle
15	Saw blade flange - rear
16	Three-phase motor
17	Mains switch
19	Guard cover
20	Fitted spring
21	Fan cover
22	Fan wing

Figures - see page 10

