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# scheppach HL810 Log Splitter Instruction Manual



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https://www.scheppach.com/de/service







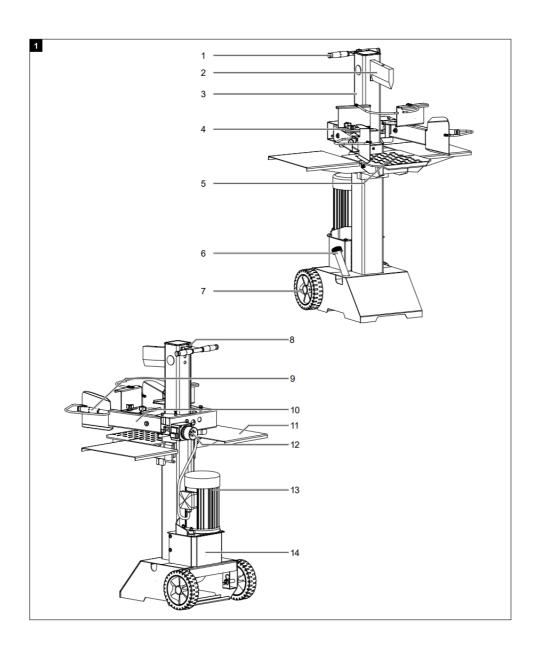
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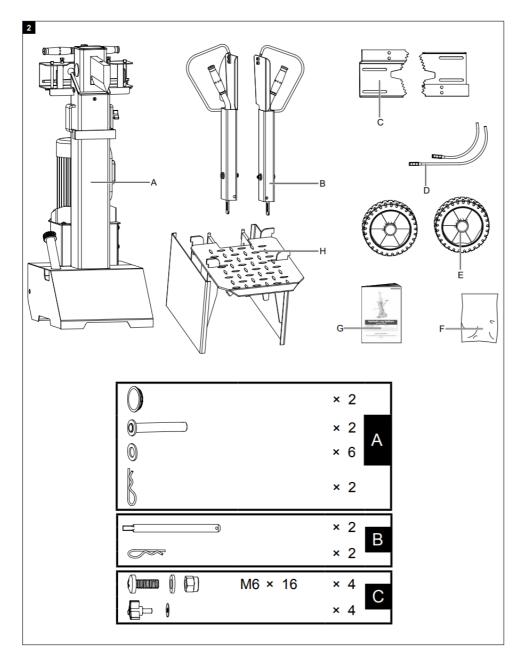
## **HL810**

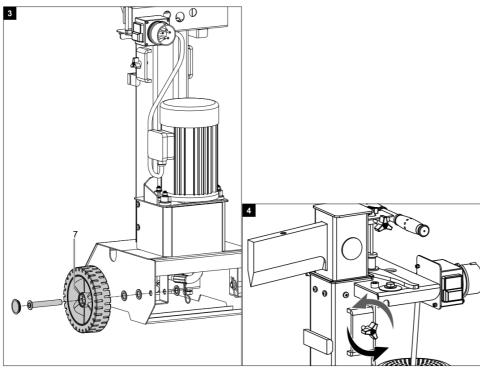
## Log splitter

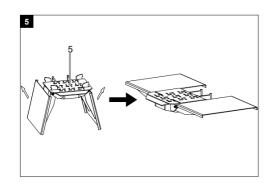
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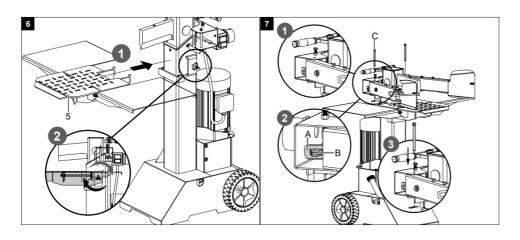


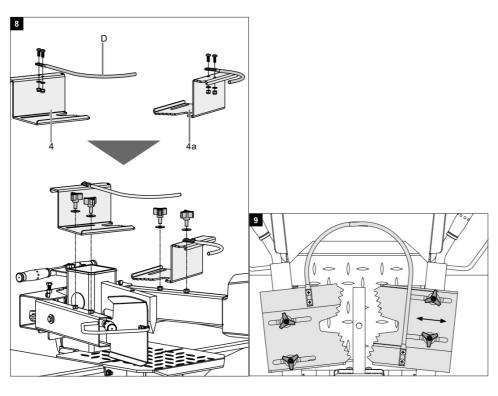


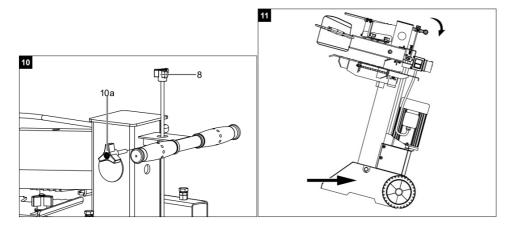


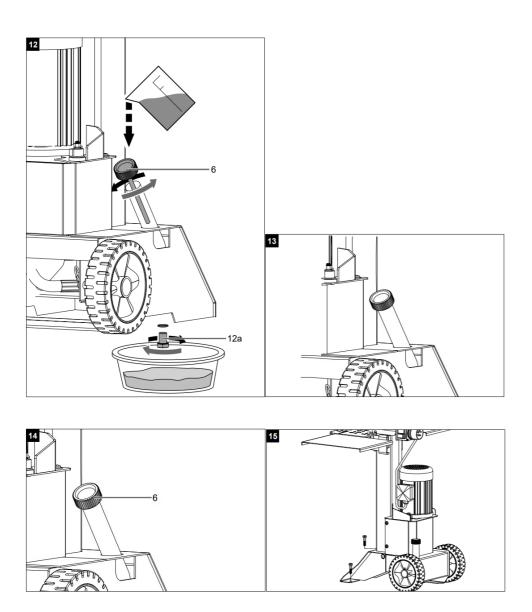








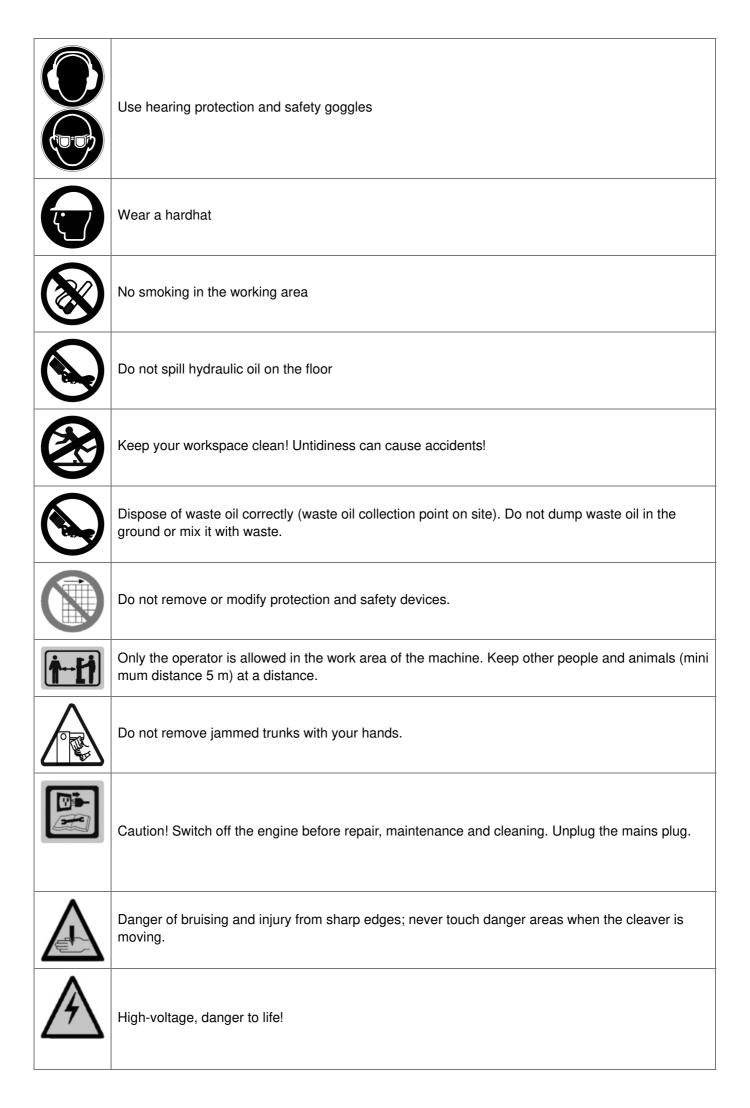




## Explanation of the symbols on the equipment

The use of symbols in this manual is intended to draw your attention to possible risks. The safety symbols and the explanations that accompany them must be perfectly understood. The warnings in themselves do not remove the risks and cannot replace correct actions for preventing accidents.





Li XII	The machine must only be operated by one person!
Ho.	Loosen the vent bolt two revolutions, before starting work. Close before transport.
	Caution! Moving machine parts!
Fi Xx	Do not transport the device in the horizontal position!
⚠ Attent ion!	In this operating manual, we have used this sign to mark all sections that concern your safety.

#### 1. Introduction

#### Manufacturer:

Scheppach GmbH Günzburger Straße 69 D-89335 Ichenhausen

#### Dear customer,

We hope your new tool brings you much enjoyment and success.

#### Note:

According to the applicable product liability laws, the manufacturer of the device does not assume liability for damages to the product or damages caused by the product that occurs due to:

- · Improper handling,
- Non-compliance of the operating instructions,
- · Repairs by third parties, not by authorized service technicians,
- Installation and replacement of non-original spare parts,
- · Application other than specified,
- A breakdown of the electrical system that occurs due to the non-compliance of the electric regulations and VDE regulations 0100, DIN 57113 /VDE0113.

### We recommend:

Read through the complete text in the operating instructions before installing and commissioning the device. The operating instructions are intended to help the user to become familiar with the machine and take advantage of its application possibilities in accordance with the recommendations.

The operating instructions contain important information on how to operate the machine safely, professionally and economically, how to avoid danger, costly repairs, reduce downtimes and how to increase reliability and service life of the machine.

In addition to the safety regulations in the operating instructions, you have to meet the applicable regulations that apply for the operation of the machine in your country.

Keep the operating instructions package with the machine at all times and store it in a plastic cover to protect it from dirt and moisture. Read the instruction manual each time before operating the machine and carefully follow

its information.

The machine can only be operated by persons who were instructed concerning the operation of the machine and who are informed about the associated dangers. The minimum age requirement must be complied with. In addition to the safety instructions in this operating manual and the separate regulations of your country, the generally recognised technical rules for operating woodworking machines must also be observed. We accept no liability for accidents or damage that occur due to a failure to observe this manual and the safety instructions.

## 2. Device description

- 1. Transport handles
- 2. Riving knife
- 3. Riving bar
- 4. Adjustable claws
- 5. Table
- 6. Oil dipstick
- 7. Wheels
- 8. Stroke setting bar
- 9. Control handle
- 10. Complete control arms
- 11. Tray table (lateral)
- 12. Combination switch/plug
- 13. Motor
- 14. Cover

#### 3. Scope of delivery

- A. Splitter
- B. Control arms
- C. Adjustable claws
- D. Additional retainers
- E. Wheels
- F. Enclosed accessories bag (A, B, C)
- G. Operating manual
- H. Table including tray tables

## 4. Intended use

The equipment is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

The equipment is to be operated only with suitable saw blades. It is prohibited to use any type of cutting-off wheel.

To use the equipment properly you must also observe the safety information, the assembly instructions and the operating instructions to be found in this manual.

All persons who use and service the equipment have to be acquainted with this manual and must be informed about the equipment's potential hazards. It is also imperative to observe the accident prevention regulations in force in your area. The same applies for the general rules of health and safety at work.

The manufacturer will not be liable for any changes made to the equipment nor for any damage resulting from such changes.

The machine may only be used with original accessories and original tools of the manufacturer.

The safety, work and maintenance instructions of the manufacturer as well as the dimensions indicated in the Technical Data section must be adhered to.

• The hydraulic log splitter can only be used in a vertical position. Logs may only be split along the direction of the fiber. Log dimensions are:

Wood length min. – max.: 100 – 550 mm Wood diameter min. – max.: 80 – 300 mm

- Never split logs in horizontal position or against the direction of the fiber.
- Observe the safety, working, and maintenance instructions of the manufacturer, as well as the dimensions given in the chapter Technical data.
- The applicable accident prevention regulations as well as all generally recognized safety rules must be adhered to.
- Only persons who have been trained in the use of the machine and have been informed of the various dangers
  may work with the machine and service or repair it. Arbitrary modifications of the machine release the
  manufacturer from any responsibility for resulting damage.
- The machine may only be used with original accessories and original tools of the manufacturer.
- Any other use exceeds authorization. The manufacturer is not responsible for any damages resulting from unauthorized use; risk is the sole responsibility of the operator.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the equipment is used in commercial, trade or industrial businesses or for equivalent purposes.

## 5. Safety notes

WARNING: When you use electric machines, always observe the following safety instructions in order to reduce the risk of fire, electric shock, and injuries.

Please read all the instructions before you work with this machine.

- Observe all safety notes and warnings attached to the machine.
- See to it that safety instructions and warnings attached to the machine are always complete and perfectly legible.
- Protection and safety devices on the machine may not be removed or made useless.
- Check electrical connection leads. Do not use any faulty connection leads.
- Before putting into operation check the correct function of the two-hand control.
- Operating personnel must be at least 18 years of age. Trainees must be at least 16 years of age, but may only operate the machine under adult supervision.
- · Wear working gloves when working.
- Caution when working: There is a danger to fingers and hands from the splitting tool.
- Use adequate supports when splitting heavy or bulky logs.
- Before starting any conversion, setting, cleaning, maintenance or repair work, always switch off the machine and disconnect the plug from the power supply.
- Connections, repairs, or servicing work on the electrical equipment may only be carried out by an electrician.
- All protection and safety devices must be replaced after completing repair and maintenance procedures.
- When leaving the work place, switch off the machine and disconnect the plug from the power supply.

#### 6. Additional safety instructions

- The log splitter may only be operated by **one person**.
- Wear protective gear like safety goggles or other eye protection, gloves, safety shoes etc. to protect yourself from possible injuries.
- Never split logs containing nails, wire, or other foreign objects.
- Already split wood and wood chips can be dangerous. You can stumble, slip or fall down. Keep the working
  area tidy.
- While the machine is switched on, never put your hands on moving parts of the machine.
- Only split logs with a maximum length of 55 cm.

**Warning!** This electric tool generates an electromagnetic field during operation. This field can impair active or passive medical implants under certain conditions. In order to prevent the risk of serious or deadly injuries, we recommend that persons with medical implants consult with their physician and the manufacturer of the medical implant prior to operating the electric tool.

#### Remaining hazards

The machine has been built using modern technology in accordance with recognized safety rules. Some remaining hazards, however, may still exist.

- The splitting tool can cause injuries to fingers and hands if the wood is incorrectly guided or supported.
- Thrown pieces can lead to injury if the work piece is not correctly placed or held.
- Injury through electric current if incorrect electric connection leads are used.
- Even when all safety measures are taken, some remaining hazards which are not yet evident may still be present.
- Remaining hazards can be minimized by following the safety instructions as well as the instructions in the chapter Authorized use and in the entire operating manual.
- Health hazard due to electrical power, with the use of improper electrical connection cables.
- Release the handle button and switch off the machine prior to any operations.
- Avoid accidental starts of the machine: Do not press the start button while inserting the plug into the socket.
- Use the tools recommended in this manual to obtain the best results from your machine.
- Always keep hands away from the work area when the machine is running.

## 7. Technical data

Motor	230 V~ / 50 Hz
Input P1	3000 W
Output P2	2200 W
Operating mode	S6 40%

Motor speed	2800 1/min
Dimensions D/W/H	845 x 935 x 1500 mm
Table height	800 mm
Working height	940 mm
Wood length min. – max.	100 – 550 mm
Wood diameter min. – max.	80 – 300 mm
Power max.	8 t*
Piston stroke	550 mm
Forward speed	3,1 cm/s
Return speed	17,3 cm/s
Oil quantity	41
Weight	109,9 kg

# Subject to technical changes!

\* Operating mode S6 40% is an uninterrupted, periodic mode. The mode comprises of a start-up period, a time with constant load and an idle time. The operating time is 10 mins, the relative duty cycle is 40% of the operating time.

## Noise

△Warning: Noise can have serious effects on your health. If the machine noise exceeds 85 dB, please wear suitable hearing protection.

## Noise data

 $\begin{array}{lll} \text{Sound power level $L_{WA}$} & 93,6 \text{ dB} \\ \text{Sound pressure level $L_{pA}$} & 77,8 \text{ dB} \\ \text{Uncertainty $K_{WA/pA}$} & 3 \text{ dB} \end{array}$ 

#### 8. Unpacking

Open the packaging and remove the device carefully. Remove the packaging material as well as the packaging and transport bracing (if available).

Check that the delivery is complete.

Check the device and accessory parts for transport damage.

In case of complaints the dealer must be informed immediately. Subsequent complaints will not be accepted. If possible, store the packaging until the warranty period has expired.

Read the operating manual to make yourself familiar with the device prior to using it.

Only use original parts for accessories as well as for wearing and spare parts. Spare parts are available from your specialized dealer.

Specify our part numbers as well as the type and year of construction of the device in your orders.

# **ATTENTION**

The device and packaging materials are not toys! Children must not be allowed to play with plastic bags, film and small parts! There is a risk of swallowing and suffocation!

### 9. Attachment / Before starting the equipment

#### 9.1 Fitting the wheels (7) (accessories bag A)

- · Insert the bolt through the wheel.
- · Attach two washers.
- Now insert the bolt through the holes in the lower part of the splitter (fig. 3).
- Now fix the bolt with a washer and a cotter pin.
- · Finally fit the small wheel cap
- Repeat this process on the other side.

#### 9.2 Fitting the table (5)

- Undo the star-grip screw (Fig. 4)
- Now fold out both side trays (11), as shown in Fig. 5
- Now fit the table in the retainer intended (Fig. 6 (1)) and re-tighten the star grip screws previously loosened (Fig. 6 (2)).

# 9.3 Fitting the complete control arms (10) (accessories bag B)

- Remove pre-assembled bolt (fig. 7 (C)).
- Grease the top and bottom plates.
- Insert the complete control arm in the position provided (fig. 7 (1)).
- Guide control arm (A) into the rocker switch (B) (Fig. 7 (2))
- Secure the control arms completely with the bolts (C) and fix them with a cotter pin.
- Now fasten the other control arm on the other side in accordance with the method described

# 9.4 Fitting the claws (enclosed accessories bag C)

- Fasten the additional retainers (D) to the claws with two Phillips head screws, washers and nuts (Fig. 8)
- Make sure that the larger additional retainer is fastened with the left claw (4).
- Place the adjustable claws on the hexagon nuts previously attached, and fasten these with the star grip screws and washers enclosed (Fig. 8)
- Note that the prongs on the claws must point towards each other after installation (fig. 9)

# **∆IMPORTANT!**

## You must fully assemble the appliance before using it for the first time!

## 10. Initial operation

Before commissioning, secure the splitter to the floor using M10 screws, as shown in Figure 15.

Make sure the machine is completely and expertly assembled. Check before every use:

- The connection cables for any defective spots (cracks, cuts etc.).
- The machine for any possible damage.
- The firm seat of all bolts.
- The hydraulic system for leakage.
- · The oil level.

## Checking the oil level (fig. 13)

The hydraulic unit is a closed system with oil tank, oil pump and control valve. Check the oil level regularly before every use. Too low an oil level can damage the oil pump. The oil level must be within the centre mark on the oil dipstick.

The splitting column must be retracted before the check, the machine must be level.

Screw in the oil dipstick fully, to measure the oil level.

#### **Functional test**

Test the function before every use.

Action:	Result:		
Push both handles towards below.	Splitting knife goes down to approx. 10 cm above the table.		
Let one handle loose, then the other.	Splitting knife stops in the desired position.		
Let both handles loose.	Splitting knife returns to upper position.		

Check the oil level before every use see chapter "Maintenance".

## Venting (Fig. 14)

Before working with the log splitter, vent the hydraulic system.

- Release the venting cap 6 by a few revolutions so the air can escape from the oil tank.
- Leave the cap open during the operation.
- Before you move the log splitter, close the cap again in order not to lose any oil.

If the hydraulic system is not vented, the enclosed air will damage the gaskets and with it the complete log splitter.

## Stroke limit for short logs (Fig. 10)

Lower splitting knife position about 10 cm above table.

- Move splitting knife to the desired position
- · Release one operating arm
- · Switch motor off
- · Release the second operating arm
- Undo the star grip screw (10a)
- Push the stroke set rod (8) to the top until it is stopped by the spring
- Tighten the star grip screw (10a) again.
- · Switch motor on
- Check upper position

## Switching on and off (12)

Press the green button for switching on.

Press the red button for switching off.

Note: Check the function of the ON/OFF unit before every use by switching on and off once.

## Restarting safety in case of current interruption (no-volt release).

In case of current failure, inadvertent pulling of the plug, or a defective fuse, the machine is switched off automatically.

For switching on again, press anew the green button of the switch unit.

## **Splitting**

• Place the log on the table, hold it with both handles, press the handles down. As soon as the splitting knife enters the wood, push the handles down and to the outside at the same time.

This prevents the wood from putting pressure on the holder plates.

- Only split straight cut logs.
- Split the logs in vertical position.
- · Never split in horizontal position or across.
- Wear protective gloves when splitting.

Attention! The lateral tray tables may not be used as splitting support or splitting table.

## End of work

- Move the splitting knife to the lower position.
- · Release one operating arm.
- Switch the machine off and pull the power plug.
- Close the venting cap.
- Observe the general maintenance instructions.

## 11. Electrical connection

The electrical motor installed is connected and ready for operation. The connection complies with the applicable VDE and DIN provisions.

The customer's mains connection as well as the extension cable used must also comply with these regulations.

- The product fulfils the requirements of EN 61000-3-11 and may only be used at the following connection points: This means that use of the product at any freely selectable connection points is not allowed.
- Given unfavourable conditions in the power supply the product can cause the voltage to fluctuate temporarily.
- The product is intended solely for use at connection points that
  - a. do not exceed a maximum permissible mains impedance "Z" (Zmax =  $0.354 \Omega$ ), or
  - b. have a continuous current-carrying capacity of the mains of at least 100 A per phase.
- As the user, you are required to ensure, in consultation with your electric power company if necessary, that the
  connection point at which you wish to operate the product meets one of the two requirements, a) or b), named
  above.

## Damaged electrical connection cable

The insulation on electrical connection cables is often damaged.

This may have the following causes:

- Passage points, where connection cables are passed through windows or doors.
- Kinks where the connection cable has been improperly fastened or routed.
- Places where the connection cables have been cut due to being driven over.
- Insulation damage due to being ripped out of the wall outlet.
- Cracks due to the insulation ageing.

Such damaged electrical connection cables must not be used and are life-threatening due to the insulation damage.

Check the electrical connection cables for damage regularly. Make sure that the connection cable does not hang on the power network during the inspection. Electrical connection cables must comply with the applicable VDE and DIN provisions. Only use connection cables with the marking "H07RN".

The printing of the type designation on the connection cable is mandatory.

For single-phase AC motors, we recommend a fuse rating of 16A (C) or 16A (K) for machines with a high starting current (starting from 3000 watts)!

## AC motor 230 V~ / 50 Hz

## Mains voltage 230 V~ / 50 Hz.

The mains connection and the extension cable have to be three-core cables = P + N + SL - (1/N/PE). Extension cables must have a minimum cross-section of 1.5 mm<sup>2</sup>. Mains fuse protection is 16 A maximum.

#### 12. Cleaning

#### Attention!

Pull out the power plug before carrying out any cleaning work on the equipment.

We recommend that you clean the equipment immediately after you use it. Wipe swarf and dust off the machine from time to time with a cloth.

Clean the equipment regularly with a damp cloth and some soft soap. Do not use cleaning agents or solvents; these may be aggressive to the plastic parts in the equipment. Ensure that no water can get into the interior of the

equipment.

#### 13. Transport

For transport, the splitting knife A must be completely moved down. Slightly tilt the log splitter with handle B on the splitting column until the machine is inclined on the wheels and can be moved. (Fig 11)

## 14. Storage

Store the device and its accessories in a dark, dry and frost-proof place that is inaccessible to children. The optimum storage temperature is between 5 and 30°C.

Store the device in its original packaging.

Cover the electrical tool in order to protect it from dust and moisture. Store the operating manual with the electrical tool.

#### 15. Maintenance

#### Attention!

Pull out the power plug before carrying out any maintenance work on the equipment.

## When must the oil be changed?

First oil change after 50 operating hours, then every 500 operating hours.

## Oil change (Fig. 12)

- Completely retract the splitting column.
- Put a container with a volume of at least 6 litres under the splitter.
- · Release the oil dipstick 6.
- Open the oil drain plug 12a under the oil tank so the oil can flow out.
- Afterwards, close the oil drain plug 12a again.
- Remove the ventilation cap, pour in 4 litres of fresh hydraulic oil using a clean funnel.
- · Screw the oil dipstick in again.

Dispose of the used oil in a correct manner at a public collection facility. It is prohibited to drop old oil on the ground or to mix it with waste.

We recommend oil from the HLP 32 range.

## Splitting spar

Before use, the spar of the splitter must be slightly greased. Repeat this procedure every five operating hours. Slightly apply grease of oil spray.

The spar may never run dry.

## **Hydraulic system**

The hydraulic unit is a closed system with oil tank, oil pump and control valve.

The system is complete when the machine is delivered, and may not be changed or manipulated.

## **Connections and repairs**

Connections and repairs of electrical equipment may only be carried out by an electrician.

ATTENTION! Observe the correct direction of rotation when inserting the saw blade.

## Please provide the following information in the event of any enquiries:

- Type of current for the motor
- Machine data type plate
- Motor data type plate

#### Service information

Please note that the following parts of this product are subject to normal or natural wear and that the following parts are therefore also required for use as consumables.

Wear parts\*: splitting wedge guides, hydraulic oil, splitting wedge

\* Not necessarily included in the scope of delivery!

Spare parts and accessories can be obtained from our service centre. To do this, scan the QR code on the cover page.

#### 16. Disposal and recycling

#### Notes for packaging

The packaging materials are recyclable. Please dispose of packaging in an environmentally friendly manner.

## Notes on the electrical and electronic equipment act [ElektroG]



Waste electrical and electronic equipment does not belong in household waste, but must be collected and disposed of separately!

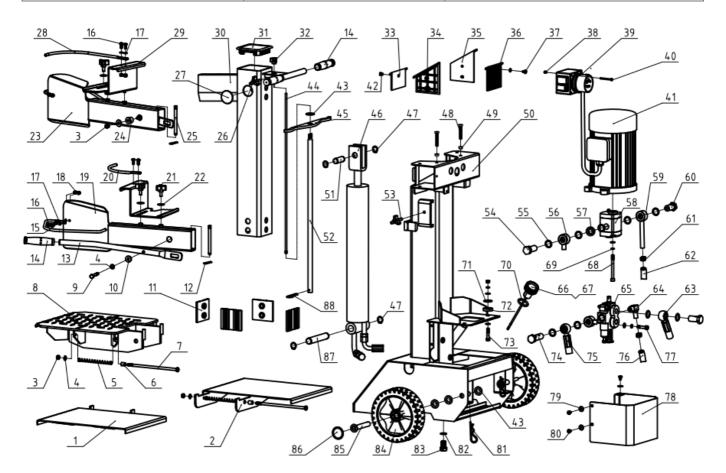
- Used batteries or rechargeable batteries that are not installed permanently in the old appliance must be removed non-destructively before disposal. Their disposal is regulated by the battery law.
- Owners or users of electrical and electronic devices are legally obliged to return them after use.
- The end user is responsible for deleting their personal data from the old device being disposed of!
- The symbol of the crossed-out dustbin means that waste electrical and electronic equipment must not be disposed of with household waste.
- Waste electrical and electronic equipment can be handed in free of charge at the following places:
  - Public disposal or collection points (e.g. municipal works yards)
  - Points of sale of electrical appliances (stationary and online), provided that dealers are obliged to take them back or offer to do so voluntarily.
  - Up to three waste electrical devices per type of device, with an edge length of no more than 25 centimetres, can be returned free of charge to the manufacturer without prior purchase of a new device from the manufacturer or taken to another authorised collection point in your vicinity.
  - Further supplementary take-back conditions of the manufacturers and distributors can be obtained from the respective customer service.

- If the manufacturer delivers a new electrical appliance to a private household, the manufacturer can arrange for the free collection of the old electrical appliance upon request from the end user. Please contact the manufacturer's customer service for this.
- These statements only apply to devices installed and sold in the countries of the European Union and which
  are subject to the European Directive 2012/19/EU. In countries outside the European Union, different
  regulations may apply to the disposal of waste electrical and electronic equipment.

#### 17. Troubleshooting

The table below contains a list of error symptoms and explains what you can do to solve the problem if your tool fails to work properly. If the problem persists after working through the list, please contact your nearest service workshop.

Malfunction	Possible cause	Remedy
	No electric power	Check cable for electric power
The hydraulic pump does not start	Thermal switch of motor cut off	Engage thermal switch inside the motor casing again
	Low oil level	Check oil level and refill
The column does not move down	One of the levers not connecte d	Check fixing of lever
	Dirt in the rails	Clean the column
Motor starts but column does not move down	Wrong turning direction of 3-ph ase motor	Check turning direction of motor and change





# Scheppach GmbH, Günzburger Str. 69, D-89335 Ichenhausen

hereby declares the following conformity under the EU Directive and standards for the following article

Brand: SCHEPPACH

Article name: LOG SPLITTER – HL810

Art. no.: 5905310901

	2014/29/EU		2004/22/EG		89/686/EWG_96/58/EG		
	2014/35/EU		2014/68/EU		90/396/EWG		
х	2014/30/EU	х	2011/65/EU*				
х	2006/42/EG						
	Annex IV Notified Body: Notified Body No.: Certificate No.:						
	2000/14/EG_2005/88/EG						
		Annex V					
		Annex VI Noise: measured $L_{WA} = xx$ dB; guaranteed $L_{WA} = xx$ dB $P = xx \ KW; \ L/\varnothing = cm$ Notified Body: Notified Body No.:					
	2016/1628/EU						
	Emission. No:						

#### Standard references:

EN 60204-1:2006+A1:2009+AC:2010; EN 609-1:2017; EN 55014-1:2017; EN 55014-2:2015; EN 61000-3-2:2014; EN 61000-3-11:2000

This declaration of conformity is issued under the sole responsibility of the manufacturer.

\* The object of the declaration described above fulfils the regulations of the directive 2011/65/EU of the European Parliament and Council from 8th June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Ichenhausen, 11.11.2022

Signature / Andreas Pecher / Head of Project Management

First CE: 2018

Subject to change without notice

**Documents registrar:** Viktor Härtl Günzburger Str. 69, D-89335 Ichenhausen

## Warranty

Apparent defects must be notified within 8 days from the receipt of the goods. Otherwise, the buyer's rights of claim due to such defects are invalidated. We guarantee for our machines in case of proper treatment for the time of the statutory warranty period from delivery in such a way that we replace any machine part free of charge which provably becomes unusable due to faulty material or defects of fabrication within such period of time. With respect to parts not manufactured by us we only warrant insofar as we are entitled to warranty claims against the upstream suppliers. The costs for the installation of the new parts shall be borne by the buyer. The cancellation of sale or the reduction of purchase price as well as any other claims for damages shall be excluded.

www.scheppach.com

## **Documents / Resources**



scheppach HL810 Log Splitter [pdf] Instruction Manual 5905310901, HL810, HL810 Log Splitter, Log Splitter, Splitter

#### References

• 5 scheppach | scheppach

Kontakt & Service | scheppach | scheppach

Manuals+,