

Short log splitter



Original Operator's Manual Copyright by Binderberger GmbH



Read the operating instructions carefully before
commissioning the machine!

This manual is valid for:

Model	Article number
H6 E	KH-M6-1
H8 E	KH-M8-1
H8 EZ	KH-M8-2

Model	Article number
SP8 Z	KH-MSP-1
SP8 E	KH-MSP-2
SP8 EZ	KH-MSP-3

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1 EC Declaration of Conformity

We hereby declare that the various technical versions of the machine:

Designation: Short log splitter
Type: H6 E, H8 E, H8 EZ, SP8 Z, SP8 E, SP8 EZ
Serial number: _____

comply with the provisions of the Machinery Directive 2006/42 / EC, the EN 609-1 and the other related standards.

The accompanying safety regulations and operating instructions apply to these machines.

The machines must not be modified. If changes are made to the machine that have not been agreed with us, this declaration becomes invalid.

The following is the name and address of the person authorized to compile the technical documentation.

CEO Karl Binderberger
Binderberger Maschinenbau GmbH
Fillmannsbach 9
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St. Georgen am Fill., 20.05.2015
Place, Date


Signature


2 Safety instructions


2.1 Explanation of symbols

Please pay attention to the meaning of the following symbolic explanations and instructions description. They are divided into levels of risk and classified in accordance with ISO 3864- 2

DANGER	
	<p><i>Indicates an immediate threat of danger. If the information is not followed, death or serious bodily injury (invalidity) is the result.</i></p>

WARNING	
	<p><i>Indicates a potentially dangerous situation. If the information is not followed, death or serious bodily injury (disability) are the result</i></p>

CAUTION	
	<p><i>Indicates a potentially dangerous situation. If the information is not followed, material damage as well as minor or moderate physical injuries are the result.</i></p>

NOTICE	
	<p><i>Indicates general instructions, useful operator instructions and working recommendations that have no influence on the safety and health of personnel.</i></p>

2.2 Pictograms and their meaning:

	<p>Read the operating instructions carefully before commissioning!</p> <p>Earmuffs and safety goggles must be worn during operation!</p> <p>Wear safety shoes (with steel toecap) during operation!</p> <p>Gloves must be worn during operation.</p> <p>The machine may only be operated by one person</p> <p>Warning of hot media</p> <p>Warning against rotating parts</p> <p>Warning against drawing in</p> <p>Warning of danger of crushing</p>
	<p>Switch off the machine before maintenance work and secure it against being switched on again.</p> <p>Machine may only be serviced by one person</p> <p>Let the machine cool down before maintenance work</p>

2.3 General safety instructions

The machine may only be operated by people who are trained, instructed and authorised for its use. These people must know the operating instructions and act in accordance with them. The respective competences of the operating personnel are clearly defined.

Operating personnel undergoing training may only initially work with the machine under the supervision of an experienced person. The completed and successful instruction is to be confirmed in writing.

2.4 Intended use

The splitter is designed exclusively for splitting firewood. All other forms of usage do not comply with the intended use. The manufacturer is not responsible for any personal injury or material damage that originates from non-compliant usage, but rather the operator of the machine is!

The reading of this manual as well as the observance of all instructions contained within it, particularly the safety instructions, also comply with the intended use. Also included is the fact that all inspection and servicing work is to be conducted in the prescribed time intervals.

2.5 Operator requirements

No special knowledge of mechanical or electrical engineering is required to operate the machine. However, the operator must be at least **18 years** old. The operator must be trained and instructed accordingly by the operator of the machine before starting work for the first time (see General safety regulations). Protective shoes and close-fitting clothing must be worn when operating the machine.

If the operator carries out maintenance and servicing work, he must have the necessary specialist knowledge.

2.6 Modifications to the machine

For safety reasons, no unauthorised modifications may be made to the machine; this applies in particular to welding work on load-bearing parts.

Only use original spare parts / original wear parts / original accessories - these parts are specially designed for the machine. In the case of externally sourced parts, there is no guarantee that they are designed and manufactured to withstand stress and safety.

Parts and special equipment not supplied by us are also not approved by us for use on the machine.

2.7 Misuse and residual risks

Despite correct application of all safety instructions for the machine, residual risks can still occur. These usually result from misuse of the machine.

- Touching rotating or moving components
- Injury from falling wooden or machine parts.
- Fire hazard due to inadequate ventilation of the engine
- Hearing damage from working without hearing protection
- Human error:
 - Mental overload
 - Entering a danger zone
 - Distractions
 - Neglected control activities

3 Description of the machine

3.1 How it works

H6 / H8

The compact short log splitters from Binderberger enable the quick splitting of wood for firewood production. The H6 / H8 is a standing log splitter for short wood, which has a splitting force of 6 / 8 tons. The maximum splitting length of 55 centimetres allows splitting of all types of short wood.

The desired lifting height of the Binderberger H6 log splitter can be steplessly adjusted by chain. The user can thus adjust the setting flexibly, quickly and with just one movement of the hand to the respective requirements. This makes the log splitter suitable for short wood with varying lengths. The two-hand operation of the firewood splitter H6 / H8, in combination with the hand lever protection, ensures a high degree of safety.

SP8

The horizontal design significantly increases working comfort and safety. Available with 8 t splitting force, the wood is pressed through the standard height-adjustable 4-fold splitting wedge, after which it remains on the folded-out wood tray. To avoid the splitting wedge having to travel an unnecessary empty distance to the stop, the stroke path can be limited and adjusted to the firewood length.

For easy transport, the standard transport trolley and the stable chassis with large-dimension wheels are used. The SP8 models are optionally available with Speed Control. This control regulates the changeover from rapid to normal speed depending on the pressure. This increases the splitting performance by up to 30 %, as work is always carried out at maximum speed.

3.2 Overview



H6



H8



SP8


3.3 Technical data

Type	H6 E	H8 E / Z	SP8 E / Z
Splitting force [t]	6	8	8
Wood length [cm]	55	55	55
Weight* [kg]	160	230	215
E-motor power [kW]	4,0	4,0	4,0
Motor speed [rpm]	1500	1400	1400
PTO -speed [rpm]	-	440	440
Hydraulic oil litres	6	9	12
Splitting speed* [cm/s]	7	7 / 10	9 / 11
Retract speed. * [cm/s]	31	39 / 54	13 / 15
Dimensions [cm]	84x48x100	160x67x115	160x67x115
Noise level	70 dB (A)		

*... the dimensions and weights given are approximate values

4 Transport of the machine

4.1 Safety instructions during transport

WARNING	
	<p style="text-align: center;"><u>Risk of injury during transport!</u></p> <ul style="list-style-type: none">• Make sure that there are no persons in the danger zone and that a sufficient safety distance is kept!• Lubricants may have leaked out due to inclined positions during transport; there is a risk of chemical burns in case of direct contact with the skin!• The machine may only be lifted at the intended holding points!

4.2 Transport journeys and journeys in public roads

Before transporting the machine, all points of decommissioning must be carried out.

When driving on public roads, the national legal regulations must be observed!

If the log splitter is hitched to the tractor and you want to transport it, make sure that there are no parts on the machine that could fall off and that the log splitter is properly attached to the tractor's 3-point linkage.

After each hitching operation, check that the upper or lower link pins are secured with a cotter pin.

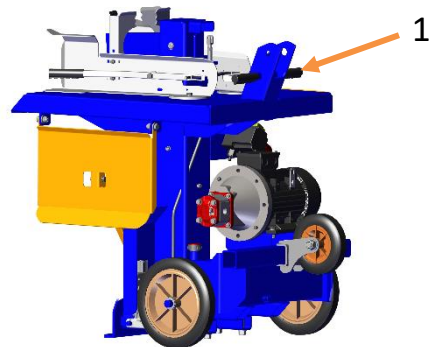
In addition, the tractor must be designed for the total weight of the machine.

- When driving the vehicle, the driving speed must be adapted to the ground conditions. In this way, you protect the log splitter from powerful vibrations that have an unfavourable effect on the joints.

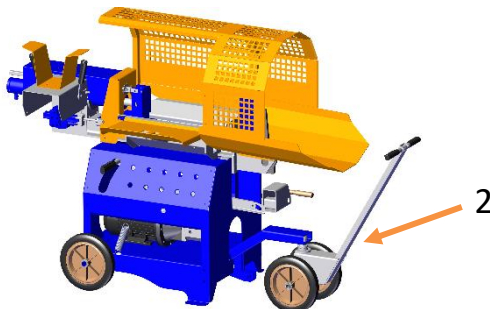
4.3 Manual Transport

For manual transport, the log splitter must first be disconnected from the tractor drive or the mains. Likewise, the splitter must still be unhooked from the 3-point. Remove all tripping hazards from the transport area and ensure that the machine is in a good standing position.

Now all you have to do is take the log splitter by the handle (1) at the back and tilt it towards your body. Now you can bring it to any point.




Due to the higher weight, it is not necessary to tilt the SP8 for transport. A transport trolley (2) is available, which is hooked in at the front and thus enables easy movement.




5 Set up of the machine

5.1 Safety instructions for set up

WARNING	
	<p><u>Risk of injury if the machine is not set up correctly!</u></p> <ul style="list-style-type: none">• Always check the machine for transport damage before setting it up!• Set up the machine on a level and firm surface!• Ensure that no persons are endangered by the installation!• Lay machine connections and cables in such a way that there are no tripping hazards!• The machine may only be operated when in perfect condition!• Do not connect or disconnect pressurised hoses!• Secure the PTO shaft guard against rotation• Ensure that there are no persons between the machine and the tractor!• Only work under sufficient lighting!• In the event of a thunderstorm (possible lightning strike) do not use the machine under any circumstances!• To reduce noise, it is advisable to position the machine as far away as possible from walls and sound-reflecting surfaces!• Do not work in closed rooms. Exhaust fumes during PTO operation can lead to reduced breathability!

5.2 Duties before starting work

<h1>NOTICE</h1>	
	<p><u>Carry out the following steps before starting work:</u></p> <ul style="list-style-type: none">• Assembly and connection must be carried out according to the instructions.• Check all hoses, couplings, bolts and screw connections for tightness before starting work.• If the outside temperature is below 0° Celsius, allow the machine to idle for approx. 10 minutes without load.• Secure the PTO shaft guard against rotation

5.3 Electrical supply line

The fuse and dimensioning of the electrical supply line must be selected by a qualified electrician in accordance with national standards and depending on the length of the line!

Connect the 5-pole CEE 400V/16A supply cable to the plug.

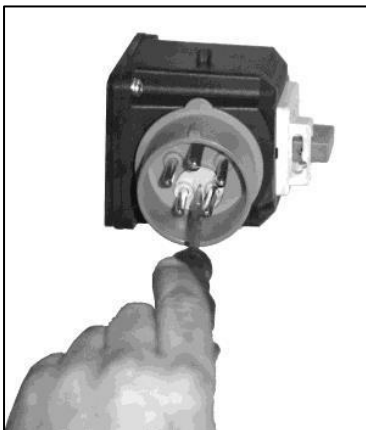
Never carry out work on electrical equipment if you do not have the necessary expertise!

5.4 Check direction of rotation of motor

Switch on the motor only briefly and check the direction of rotation on the fan blades of the motor. The correct direction of rotation is indicated by the sticker on the fan cover of the motor. If the direction of rotation is not correct, disconnect the supply line to the log splitter.



There is a phase inverter in the plug with which you can change the direction of rotation of the motor (press the disc in the plug in with a screwdriver and turn it 180°).



5.5 Connecting the PTO shaft

Drive the tractor in front of the log splitter and hitch it to the tractor's three-point linkage.

Park the tractor. Now you can connect the splitter and the tractor to the PTO shaft.

It is recommended to operate the machine with a PTO speed of 440 rpm.



A cardan shaft of type BG4 must be used.

The PTO shaft guard must be secured against rotation.

5.6 Set up the SP8

First you have to bring the splitting tray into the working position. This can be folded down without any tools.


The splitting tray must first be lifted before it can be folded down.


Push the splitting tray slightly towards the cylinder to secure the position.




6 Operation

6.1 Safety instructions during operation

DANGER	
	<p><u>Risk of injury from being caught or pulled in on moving machine parts!</u></p> <ul style="list-style-type: none">• Keep a sufficient safety distance from moving machine parts!

WARNING	
	<p><u>Risk of injury when operating!</u></p> <ul style="list-style-type: none">• Make sure that only the operator is at the control panel.• That no other persons are in the danger zone and that a sufficient safety distance is maintained!• Familiarise yourself with the controls of the log splitter!• Ensure that the machine is in a safe position!• Make sure that there are no persons between the machine and the tractor!• Wear protective gloves and safety shoes with steel toecaps.• All parts that do not belong to the machine must be removed from its environment. (Tripping)

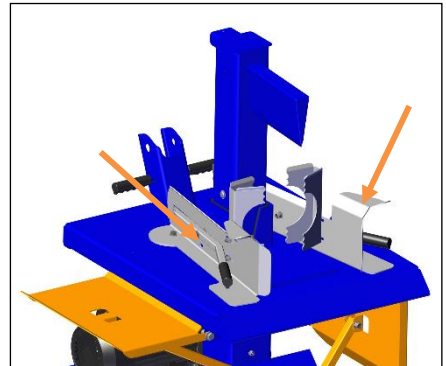
6.2 Important notes during operation

<h1>NOTICE</h1>	
	<ul style="list-style-type: none">• The operating personnel must ensure that no unauthorised persons are in the working area of the machine.• Before switching on the machine, inform yourself about the correct behaviour in case of malfunctions.• Before switching on the machine, carry out the points listed in the chapter "Duties before starting work".• After switching off the machine, always carry out the work steps in the following chapter "Decommissioning".• If the operator leaves the machine unattended, it must be shut down and secured against unauthorised restarting.

6.3 How the safety two-hand control works

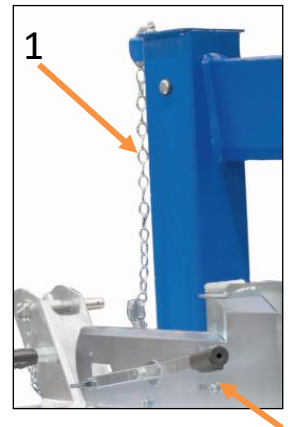
The splitting process can only be triggered by pressing both hand levers downwards or, in the case of the SP8, by pulling them forwards. If only one hand lever is pressed, no movement takes place. The same applies if only one hand lever is released during the splitting process.

If one of the hand levers is released, the splitting wedge remains in its position. To return to the starting position, both hand levers must be released. The splitting wedge then automatically moves to its starting position and switches off upwards via the stroke length adjustment.



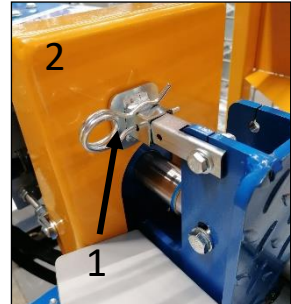
6.4 Splitting height adjustment (H6, H8)

To adjust the splitting length of the log splitter, move the splitting wedge to the desired height by pressing the two hand levers. As soon as you have reached this height, release one of the hand levers. The splitting wedge remains in this position and you can adjust the splitting height. With the hand that has become free, hang the chain (1) taut at the top of the splitting wedge. This is now the new stopping point.



6.5 Splitting length adjustment (SP8)

To adjust the splitting length of the log splitter, extend the cylinder to the desired height by pressing the two hand levers. Once you have reached the optimum position, release one of the hand levers. The cylinder remains in this position and you can adjust the stroke height.

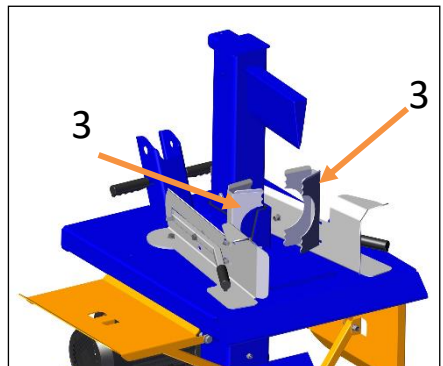


To do this, push back the small square shaped tube piece (1) with the freed hand on the shut-off rod and secure it with the cotter pin so that it is directly on the shut-off plate (2) as shown in the picture. If this shaped tube piece presses against the shut-off plate when it is moved back, the control valve is closed via a linkage.

6.6 The splitting process (H6, H8)

Place the wood on the splitting table and align it according to the grain of the wood and the desired split size. By pressing the two hand levers, the splitting process is triggered and the wood is split. As soon as the wood is split, both hand levers can be released. The splitting wedge then automatically moves back to its original position.

If the wood does not stay on the table by itself, proceed as follows. Turn one hand lever guard to the splitting wedge. With the other hand, place the wood on the table so that it is supported by the wood claw (3). Then move the second wooden claw towards the wood, thereby clamping it. Now you only have to press the two hand levers to split the wood.



6.7 The splitting process (SP8)

Place the wood in the splitting tray. Adjust the height of the splitting wedge with the lever (1) to the right of the two-hand control.

This can either be set all the way down to split the wood only centrally into two pieces or into four pieces in one splitting operation. By pulling the two hand levers, the splitting process is then triggered and the wood is pushed through the splitting wedge.



As soon as the wood is split, both hand levers can be released. The pusher moves back to its original position. After this step, the wood lies in a trough from which it can be easily removed. However, a wheelbarrow can also be placed underneath to catch the wood immediately. This means that it is no longer necessary to pick up the logs again.



If the wood is cut at an angle, make sure that the slanted side faces the wedge.

Otherwise, it can happen that the wood slips off the pusher with a jerk under the high pressure. This can lead to injuries.


6.8 Daily inspection


Visually inspect the unit. Look for faults and defects that could have an influence on safety. Any faults and defects must be rectified.


- Make sure that there are no leaks in the hydraulics.
- Make sure that there are no damaged hoses.

7 Shutdown

7.1 Safety instructions for decommissioning

DANGER	
	<p><u>Risk of injury from being caught or pulled in on moving machine parts!</u></p> <ul style="list-style-type: none">• After parking, wait until all moving machine parts have come to a standstill!• Keep a sufficient safety distance from moving machine parts!

WARNING	
	<p><u>Risk of injury when taking out of operation!</u></p> <ul style="list-style-type: none">• Ensure that there are no persons in the danger zone and that a sufficient safety distance is maintained!• Ensure that there are no persons between the machine and the tractor!

<h1>WARNING</h1>	
	<p style="text-align: center;"><u>Risk of injury when switching on the machine by unauthorised persons!</u></p> <ul style="list-style-type: none">• Secure the machine after operation against unauthorised switching on!• When leaving the workplace of the machine for a longer period of time, disconnect the power source.

7.2 Turn off the splitter

Turn off the machine and disconnect it from the power source.


Fold all the tables of the log splitter back in and secure the splitting wedge in the lower position.


7.2.1 Electric drive


1. Switch off the drive by pressing the switch!
2. Disconnect the 400V/63A supply cable from the plug and secure the drive against being switched on again!

8 Maintenance


8.1 Safety instructions during maintenance

<h1>DANGER</h1>	
	<p style="text-align: center;"><u>Serious risk of injury from switching on the drive during maintenance work!</u></p> <ul style="list-style-type: none">• Switch off the machine!• Secure against being switched on again!

<h1>CAUTION</h1>	
	<p style="text-align: center;"><u>Lubricants!</u></p> <ul style="list-style-type: none">• Use suitable collection containers.• Remove spilled oil immediately.• Avoid contact with skin and eyes.• Do not swallow or inhale.• Use suitable protective equipment (gloves, goggles).• Take care that no oil gets into the environment.

<h1>CAUTION</h1>	
	<p style="text-align: center;"><u>Risk of injury! Scalding by hot machine components and media!</u></p> <ul style="list-style-type: none">• Allow the machine to cool down to ambient temperature before carrying out any maintenance work.• Keep easily flammable material away from hot surfaces.

8.2 Important instructions during maintenance

<h1>NOTICE</h1>	
	<ul style="list-style-type: none">• Replace all machine parts that are not in perfect working condition immediately.• Only use original spare parts.• Ensure that suitable collection containers are available for all substances hazardous to groundwater (oils, etc.).• Use only the specified operating materials.• Self-locking screws and nuts must always be renewed.• All operating materials and lubricants that are not reused must be disposed of in an environmentally friendly manner.• Installing the wrong spare parts or wearing parts can cause serious damage to the machine.• There is a risk of fire during welding work. Keep fire extinguishers ready.• Improperly routed cables can cause braising and cable fires.• Never release the machine for operation without the factory-provided safety devices.• It is strictly forbidden to remove safety notices affixed to the machine.• Replace the information stickers on the machine if they are no longer legible.• Always observe the warning notices located on the machine. They help to avoid hazards.• Do not carry out any repairs if you do not have the necessary qualifications.

8.3 Notes when working on electrical equipment

All work on the electrical equipment of the machine may only be carried out by trained electricians.

- Check electrical equipment regularly.
- Reattach loose connections.
- Replace damaged lines or cables immediately.
- Never clean electrical equipment with water or similar liquids.

8.4 Notes when working on hydraulic equipment

All work on the machine's hydraulic equipment may only be carried out by trained specialists.

- Depressurise all hydraulic systems / system parts before starting work.
- Before starting work, ensure that suitable collection containers are available for all substances hazardous to groundwater (oils, coolants, etc.).

8.5 Cleaning

After each operation and before each maintenance, the machine must be cleaned of dirt!

After each cleaning with water, the log splitter must be lubricated!

8.6 Changing the hydraulic oil

The oil should be changed every 250 operating hours or once a year. The oil quantity can be found in the technical data for your log splitter. HLP 32 or equivalent oil must be used as the hydraulic oil. Make sure that an appropriately large collection container is available.

The oil should be changed every 250 operating hours or once a year. The oil quantity can be found in the technical data for your log splitter. HLP 32 or equivalent oil must be used as the hydraulic oil. Make sure that an appropriately large collection container is available.

To drain the hydraulic oil, open a hydraulic hose at the front or rear of the tank. To drain the last remnants of the tank contents, tilt the log splitter a little. When the oil has been drained from the tank, refit the hose firmly to the tank. Refill the tank with the appropriate amount of oil at the filler opening (picture). The tank should be approximately 2/3 full.



After filling, start the log splitter and run the splitting wedge up and down a few times without wood. When the blade is in its upper position, check the oil level again and top up with some more hydraulic oil if necessary.

After filling, start the log splitter and run the splitting wedge up and down a few times without wood. When the blade is in its upper position, check the oil level again and fill up some more hydraulic oil if necessary.

8.7 Lubrication

The machine should be cleaned regularly to remove dirt! In addition, the knife bar of the H6 or H8 should be lightly greased after each cleaning.

8.8 Changing the oil in the gear box

(only for PTO pump operated log splitters)

The gear oil should be changed for the first time after 100 operating hours. Thereafter every 500 operating hours or once a year. The gear oil used should be of viscosity class SAE 90. Approx. 0.2 l is required for one filling.

To drain the oil, there is a drain plug on the lower part of the gearbox. Open it and drain the oil. When tightening the screw, be careful not to tighten it too much, otherwise the thread in the aluminium housing could tear out.

To refill, remove the bleeding (1) at the top of the gearbox. After filling, tighten it again with feeling.



8.9 Changing the hydraulic hoses

All hydraulic hoses must be replaced after 5 years.

Otherwise, damage to the hoses can cause serious injuries.

8.10 Maintenance time scheme

Regular maintenance is the best guarantee that your splitter will work effectively and economically. The short log splitter has already been carefully tested and adjusted at the factory.

	10h	1.st time after 50h	Thereafter every 250h or 1 time per year
I-Beam	Lightly grease		
Oil change		x	x


8.11 Duties before finishing maintenance


After completing the maintenance work and before starting the machine, observe the following points:


- Check all previously loosened screw connections for tightness.
- Check that all previously removed guards, covers, container lids, are properly reinstalled.
- Make sure that all tools, materials and other equipment used have been removed from the work area.
- Clean the work area and remove any spilled liquids and similar substances.
- Ensure that all safety devices of the machine are working properly again.
- Check the operation of the safety devices. Do not release the machine for use if the safety devices are not functioning properly.
- Carry out a test run with a function check of the repaired components.
- Secure the machine against unauthorised switching on if you have not completed the work.
- Do not handle naked flames or smoke.

9 Help in case of malfunctions

9.1 Safety instructions

DANGER	
	<p><u>Serious risk of injury from switching on the drive in the event of a malfunction!</u></p> <ul style="list-style-type: none">• Switch off the machine!• Secure against being switched on again!

CAUTION	
	<p><u>Risk of injury! Scalding by hot machine components and media!</u></p> <ul style="list-style-type: none">• Allow the machine to cool down to ambient temperature before carrying out any troubleshooting.

CAUTION	
	<p><u>Danger of burns due to contact with lubricants!</u></p> <ul style="list-style-type: none">• Avoid skin and eye contact.• Do not swallow or inhale.• Use suitable protective equipment (gloves, goggles).

9.2 Troubleshooting

Error	Cause	Error correction	Look up
Splitting wedge does not extend	Incorrect direction of motor rotation (electric drive)	Change the direction of rotation with the phase inverter	5.4
	Too little hydraulic oil in the system	Check oil level	8.6
Engine does not run or switches off often	Motor protection responds	Supply line too weak	Contact a specialist
	Motor protection responds (motor hums)	Only two phases	
		A plug has come loose on the phase inverter	
	Faulty supply line	Have the supply cable checked by a specialist	
	Contact or motor protection of the switch defective	Have switch checked	
	Motor covered or heavily soiled	Clear or Clean motor (ATTENTION!! Do not clean with water)	Cleaning
Engine gets hot and has no power	Only two phases connected	Have the supply cable checked by a specialist	Contact a specialist
Hydraulic cylinder leaking	Sealing sleeves worn	Replace gasket set	Contact a specialist
	Piston rod damaged	Replace piston rod	

Splitting wedge blocked	Wood too knotty	Turn the wood	6.6 / 6.7
		Only split the wood half the length of the blade	
	Gasket set leaking (only with very high operating hours)	Replace gasket set	Contact a specialist
Hydraulic hoses get hot	Too little oil in the system	Check oil level	8.6
	Old oil in the system	Change the oil	
	Shut-off chain too long	Shorten the chain	6.4 / 6.5
	Pump defective	Replace pump	Contact a specialist
<p>If the malfunctions cannot be eliminated according to the above instructions. Please contact your dealer! He will be happy to help you.</p>			

10 Guarantee and Warranty

Guarantee Terms 950601:

The Binderberger Maschinenbau GmbH company provides a guarantee for a period of two years on parts that fail to fulfil their intended purpose as the result of material defects or production errors.

A one-year guarantee is provided by our suppliers on goods procured by us, such as wheels, pumps and valves. The guarantee comes into force with the delivery date.

The guarantee does not cover failures that are due to normal wear, inattentiveness, incorrect use and incorrect assembly. Hydraulic hoses and couplings are excluded from the guarantee.

Costs that originate within the scope of the guarantee procedure for detaching, assembly and delivery are not refunded. The fault should be repaired upon the mutual arrangement of the customer, the appointed dealer and the Binderberger company. The fault should be repaired following a mutual arrangement between the customer, the appointed dealer and the Binderberger company.

For this, the model of the machine, the production number, the delivery date and the name of the owner, as well as the address, must be indicated. For this, the model of the machine, the production number, the delivery date and the name of the owner as well as the address must be presented.

The guarantee is invalid if the machine deviates from the original implementation, e.g., due to changes, set-up, additional constructions or the replacement of parts that have not been delivered by us. Otherwise, the NL92 delivery regulations are valid.

11 Conduct when dealing with accidents

As a matter of routine, ensure you have up-to-date information about available first aid options.

After the initial care of injured people, immediately inform your supervisor of any personal injuries, damage to the machine or material damages.

In the event of the specific use of emergency vehicles, state the severity of the injury and damage.

In a disaster situation, immediately leave the machine (fire).

Note

In the pursuit of technical advancement, Binderberger Maschinenbau GmbH continually works to improve its products. We reserve the right to make changes from the illustrations and descriptions in this operating manual/replacement parts list. This cannot give rise to any claim to changes on machines that have been already delivered. The technical data, dimensions and weights are not binding.

Errors excepted.

12 Notes

Dealer's stamp:

Name plate:



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