

USER'S MANUAL

Carefully read the entire manual before operating the firewood machine!

- Set-up
- Use
- Maintenance
- Accessories



HYDRAULIC LOG SPLITTER SM 500 E / SM 500 Z



**We manufacture
in Germany**



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1. INTRODUCTION

Dear customer, thank you very much for your trust and preference in choosing our equipment and joining the number of our best customers in the world. We are confident that our equipment will be up to all your expectations and assure you a long lasting quality and performance.

Our range of hydraulic log splitters includes various different models of different splitting force.

SM 500 E/ SM 500 Z

All log splitters are equipped with the safety 2-hands control.

1.1 About the manual

Please take time to read this manual and learn to how operate and maintain the splitter safely. For your easier reading this manual is laid out in several sections. The sections are progressively numbered 1 through 14 and listed on the "content" page. The information, pictures and technical data in this document reflect current or planned product features, functions, and characteristics as of the publication date. Because of on-going product improvements and feature additions, information in this document is subject to change without notice.

When you have checked all the possible causes listed and you are still experiencing the problem, ask your Authorized Service Centre for help. When you order parts maintenance or repair services, your Authorized Service Centre, your dealer or eventually the manufacturer need your machine serial number and engine serial number. These are the numbers that you have recorded on the product identification label of the manufacturer on the machine.

1.2 Delivery and transport claims

Upon delivery of the machine please check for visual machine damages such as damaged packing or scratched buckled parts. If so, make a remark on all copies of the delivery bill before signing for acceptance. Also have the truck driver sign all copies of the delivery bill.

Also have the truck driver sign all copies of the delivery bill. Should your shipper or the truck driver refuse to accept your claim, fully reject delivery and make sure to inform us (the manufacturer) immediately. No claims shall be taken into account by the shipper or by the insurance company, if a reservation note is not made on the delivery bill.

All transport damages must be notified within latest 2 days from delivery. Therefore delivery must be collected and inspected within this term. Later claims shall be disregarded.

In case of assumed but not visually clear transport damages make sure to mark the following sentence on the delivery bill: „**Reserved delivery due to assumed transportation damages.**

“Insurance and shipping companies act with extreme caution in case of transport damages and sometimes refuse to accept responsibility. Please make sure to provide clear and exhaustive evidence (photos) of the claimed damages.

Thank you in advance for your help and attention to this matter.

2. PRODUCT OVERVIEW



3. SAFETY SIGNS AND WARNING LABELS



1. Machine safety label
„before setting-up, servicing, maintaining and cleaning the machine, disengage power and stop the engine. Lock the tool and secure it against accidental start.“

This safety label reminds users of the general safety rules.



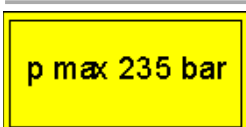
2. Machine safety label
„Read, understand, and follow all instructions in this manual and on the splitter before starting!“

This safety label reminds the user about the importance of reading and understanding the instructions of the manufacturer and getting familiar with the machine before you first use it.



3. Operation safety label
„One-man operation only!“

Possible dangers can arise from moving parts on the machine.
The machine is to be strictly operated by one man at a time only.



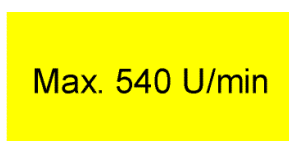
4. Machine safety label “max pressure 235 bar”

Maximum operating pressure is 235 bars.



5. Operation safety label “Pinched hands danger!”

Keep your hands off all moving machine parts! Pinched hands danger.



6. Machine safety label „max 540 RPM”

This label shows the max admissible number of PTO shaft revolutions.



7. Operation safety label „Check motor revolutions!”

Avoid dangers and check motor revolutions upon starting when using a 400V motor.



8. Machine safety label „Direction arrow”

The motor must be turning in the same direction as shown by this arrow.



9. Operation safety label „Shift the wedge down“

The label is used on the machine to identify the control lever position when you wish to set the wedge down to a lower level.



10. Operation safety label „Shift the wedge up“

The label is used on the machine to identify the control lever position when you wish to raise the wedge up to a higher level.



11. „Product Identification label“

This label shows the company details of the manufacturer and the main technical data of the machine.



12. „BGU-Maschinen“ manufacturer's logo



13. Operation safety label “WARNING! Always wear safety boots”



14. Machine safety label „Wear earplugs and goggles“



15. Machine safety sign „Moving Parts Danger!“

4. SAFETY



Strictly perform installation, set-up, maintenance/repair, cleaning and transportation with the motor switched off and the tool firmly secured against accidental operation.

Severe personal injury or machine damages can result from not complying with the operation, assembly, maintenance and repair instructions contained in this manual. Allow only adults to operate/maintain the log splitter after they have received sufficient training and have made themselves familiar with the machine. Make sure that full compliance is assured at all times with the general safety and health rules on the workplace as well as the applicable local traffic rules.

No one under the age of 18 should be allowed to operate the log splitter. However, young people in age of 16 or slightly more may work on the machine providing that they received adequate training, that they carry all due personal protection safeties and that an adult supervisor keeps standing nearby.

Machine instability can result in injury or severe damages. To ensure stability during operation make sure to choose a flat, dry floor free from any tall grass, brush or other interferences.

To avoid tripping, do not leave tools, logs, or other components laying around in the work area. Avoid slippery floor conditions but do not scatter saw dust or wood ash to improve the foundation floor. Make sure that the equipment stands on a safe stable foundation. Also assure that:

- Due and proper illumination of the working site is provided at all times
- A wide but confined area is available around the machine to stop access of unskilled personnel during operation and still assure maximum working freedom
- A skilled electrician is asked for any repair on the electric system
- All operators wear steel toe safety shoes and snug-fitting tear-resistant work cloths
- No additional customised protections or tools are provided on board of the machine, other than the ones designed and supplied by the manufacturer
- the splitter is never left unattended with its motor on

Always assure compliance with safety, protection and accident prevention rules as well as general road and traffic rules in the country of use.

Operators should always wear personal protection cloths including steel-toed safety shoes, snug-fitting tear-resistant work cloths, safety gloves earplugs and safety goggles.
Site must be free of slippery surfaces and tripping obstacles. Make sure that all access ways are properly maintained so that wood can be safely delivered, loaded and shipped.

4.1 Mandatory application field

Log splitters are one-man operation machines only. Never allow more than one person approach and work on the machine at the same time.

The model "SM 500 E / SM 500 Z" is conceived for splitting logs for firewood preparation only. BEWARE: no cross-grain splitting is permitted. Always split grain-wise.

When placing the log on the log splitter make sure that the chunk rests entirely and safely on the log carriage.

Any other use or splitting method is considered by the manufacturer as "misuse". In case of misuse the manufacturer will not be liable for any injuries or damages and the operator will be held entirely responsible.

Please make sure to comply with these set-up, operation and maintenance/repair instructions in order to avoid happening of any injury or dangerous condition.

BEWARE: this unit has a max log capacity of min 250 mm and max 300 mm diameter.

5. OPERATION

5.1 Splitter set-up ready for use



Fig. 1

For optimized transport dimensions and more effective handling, the unit is shipped by the manufacturer with the ram fully retracted over the log carriage. To set the unit ready for splitting you first need some minor setup work. Bolt the cylinder flange firmly on the steel casing (Figure 1). To do this, simply release both the nuts (SW19) and the respective U-rings from the special thread bolt and then push the ram back to stop the flange against the casing.

Now secure the flange in place screwing both hex nuts (SW19) tightly against the steel casing. Make sure that the ram keeps perfectly straight and horizontal, as you tighten the screws. The push-plate must advance smoothly and trouble-free all over the entire carriage, as the ram slides back.

WARNING: a skewed, offset ram will cause the push plate to apply excessive strain on the piston rod ending up into leaks and even permanent damage of the cylinder gaskets.

5.2 Extension table



Fig. 2

The splitter comes with a special steel extension table.

The extension attaches to the carriage on the wedge side and is designed to collect the wood sticks as they come off the machine through the wedge.

The extension attaches quickly and easily to the carriage without having to use any special tool or equipment.

The retainer pin fits into the bracket of the handle rod (see Figure 2). To remove the extension, just slightly tip it over to release it.

5.3 Connection and disconnection to PTO drive

As all PTO-driven units, this splitter are equipped with a three-point linkage to fit on the one available on your tractor. The drive shaft is going to act as linkage and driving element between the tractor and the processor and should be therefore duly mounted and secured by the special pins available on the machine.

Press the detent lock inward as you slide the machine shaft onto the tractor PTO stub shaft. Slide the machine shaft forward far enough to make sure the detent lock has snapped into the lock position. Secure the drive shaft with the special restraining chain to avoid dangerous twisting.

Make sure that the machine is fully disconnected (switch the tractor off) and all moving parts are secured before performing any maintenance/repair work on the machine.



Before uncoupling the drive shaft, make sure to stop the tractor and switch the engine off in order to avoid damaging the splitter power drive.

5.4 Electric specifications

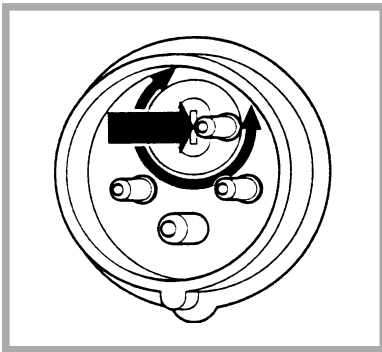


Fig. 3

Connect the 400V motor using a 25 m long power cable in a minimum section of 1.5 mm².

Make sure to connect the neutral return wire of the conductor cord or the machine won't start!

In case of splitters powered by a 400V motor, first check that the motor rotates in the direction shown by the arrow on the housing. To do this, quickly switch the motor on and off. Should rotation be performed in the opposite direction than shown by the arrow-label on the motor fan, immediately stop the motor and use a phase inverter (Fig. 3) to change the plugging polarity of the conductor cable.



Operating the splitter while the motor turns in the wrong direction may cause major, even permanent damages of the hydraulic pump!

5.5 Initial check-up

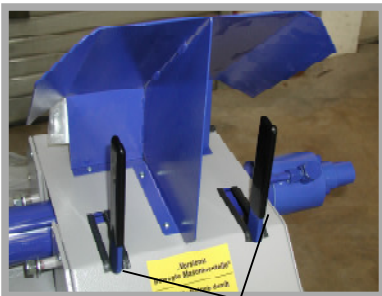


Fig. 4

The log splitter is equipped with safety two-hands mechanical controls (Fig. 4) designed for the operator to keep both hands free from danger and from infringing the moving ram zone during the entire splitting cycle.

It is strongly recommended to check the operation of the two-hands control every time before a new use.

To do so, engage both hand levers (1) and hold them down at the same time to let the push-plate advance all the way to the wedge. If your system is duly set, the push-plate stops upon releasing of just one of the two levers while the ram stops its back/forth stroke at once.

On the other hand, the ram must recommence its backwards travel to the initial start position as soon as the other lever is also released. Make sure that the ram performs no travel when operating only one single lever.

Check that both levers spring back into their normal position when the hand pressure is released.

5.6 Start-up

Before first use, make sure that the log splitter is in good conditions and that there are no visual damages.
Check all hydraulic hoses, fittings and couplings and to detect and repair eventual oil leaks.
Make sure that all safeties and protections are duly assembled on the machine. Do not attempt to remove or by-pass these safeties!

Should any trouble or unusual behaviour be detected, do not start splitting wood until these have been fixed.

5.7 Operating safety

Choose a flat, dry, and solid location to operate your splitter.
Make sure that the area is free of slippery surfaces and objects to trip over. Slippery and icy floor conditions must be duly treated to ensure solid standing conditions.
This unit is strictly one-man operation.



Never reach with your hands at pinch points where they can get caught by the travelling push-plate!

5.8 Adjusting the ram travel



Abb. 5

2

The ram travel is factory set to the maximum log capacity before shipment. As you start the motor, the ram slides automatically back to the maximum travel stroke.
Should your chunks be much shorter than the actual capacity adjustment on the machine, it is possible to adjust it accordingly. Stepless ram stroke adjustment is possible at all times.

Ram stroke adjustment procedure:

Let the ram slide forwards to the desired stroke length and shut the motor off.

When you do this, make sure to keep engaging one of the control levers in order to prevent the ram from returning back to its start position.

Now release the star-knob (Fig. 5 Pos. 2) on the adjustment rod located underneath the log carriage and shift it to the new desired stop position. The ram travel is reduced by an equivalent stroke length as the length of knob shift to the left hand side.

Once the desired ram stroke is obtained, tighten the star-knob back to the original torque.

One can set the log capacity to 250mm, 330mm or 500mm by adjusting the ram/push-plate stroke to the wedge and securing the new position of the stop-plate using the special cotter pin.

The push-plate will then shift back as far as the new stop-plate position without ever reaching to maximum stroke.

Should you again require splitting to the maximum log capacity, release the star-knob and shift it to the right hand side.

Now the push-plate will perform travel back to the maximum ram extension stroke.

Tighten and secure the star-knob before getting back to work.

5.9 Hydraulic specifications

The splitter features an independent hydraulic plant with tank and pump. The hydraulic tank is located on the chassis of the machine and is always supplied by the manufacturer with a first hydraulic oil fill.

At cold temperatures the oil viscosity in the tank is relatively high. For this reason you should refrain from cold start-up (and splitting) at low ambient temperature in order to avoid damaging the hydraulic circuit and ancillary lines on the machine.

In order to assure top hydraulic performance of your processor even at cold winter temperatures, make sure to first run the machine idle for a few minutes so that it is fully cycled before start-up.

The splitter is hydraulically controlled by means a control valve whose fine default-setting is performed by the manufacturer before delivery. Do not alter these settings.

5.10 Operation

Start the gasoline motor and switch the splitter on.

Load a chunk centrally on the log-carriage.

Use wedge-lift levers to adjust the height of the splitting wedge depending on the size of your logs.

Now push both handles down at the same time to start the cycle and engage the ram that will immediately start advancing to the wedge.

DO NOT RELEASE THE CONTROL HANDLES UNTIL THE CYCLE IS COMPLETELY OVER AND THE LOG IS SPLIT.

Should any emergency arise and stopping be required, simply set both control handles free from your grip. When doing this, the ram will immediately travel all the way back to start position.

As soon as the log is completely split, release both control handles and let the ram travel back to start position and be ready for a new cycle.

As soon as the log is completely split, release both control handles and let the push-plate travel back to start position and be ready for a new cycle after clearing the wood sticks from the extension table.

Do not attempt to catch the split wood or remove wood sticks from the extension table by hand until the cylinder rod stops at its maximum travel position.
Clear the table and remove chips and wood debris from the machine before starting a new cycle.

When loading chunks, make sure that logs sits central and firmly on the log carriage.

Do not split wood chunks with lots of branches, first clean it and remove all branches. DANGER : crooked trunk pieces with green/dry branches may burst under wedge pressure!
Make sure to shut the motor off before leaving the area at work end.

5.11 Clearing logs sticking to the wedge

Depending on the type of wood being split, a log may not always break into two pieces and clear off the wedge. If a log sticks to the wedge, let the push-plate slide all the way back and switch the splitter off. Now carefully remove or hammer the log off the wedge.

6. HANDLING AND TRANSPORTATION

6.1 Short distance handling

This machine is conceived for very ergonomic easy handling thanks to the special wheel arrangement in the rear bottom part of the machine.



Remove the extension table, grip the handle rod (Figure 6, Pos. 3) with one hand, pull the splitter up and start hauling it away on its back wheels.

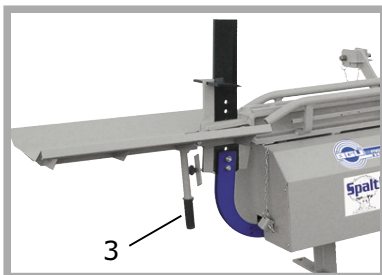


Fig. 6

During hauling the ram must be fully retracted over the carriage while the piston-rod guide must be firmly secured to the special safety catch on both sides of the push-plate.

To retract the cylinder in transport asset, first release both hex nuts (SW 19) of the flange and then shift the ram all the way to the edge on the opposite side of the splitter.

To set the splitter ready to work again, make sure to screw and secure the cylinder back to the casing (see 5.1 "Splitter setup").

6.2 Handling on the three-point hitch

Like all PTO-powered machines, this unit is equipped with a 3-point hitch for transportation on a tractor (or a similar vehicle). As you attach your unit to a tractor or other equivalent self-propelled vehicle make sure that the machine does not infringe the tractor profile nor blinds tractor lights and signal lights (stop lights, tail lamps, etc...). If so, you must provide for suitable additional travel lights on the splitter.

The same is applicable for all other tools or equipment infringing the tractor profile by 1m in the back and 40cm on the side. In this latter case, suitable clearance lamps must be provided in the front. Make sure to apply suitable warning signs (white/red) as per DIN Standards 11300 to warn about protruding obstacles likely to endanger the nearby traffic.

More details are obtainable from the StVO.

6.3 Optional handle rod

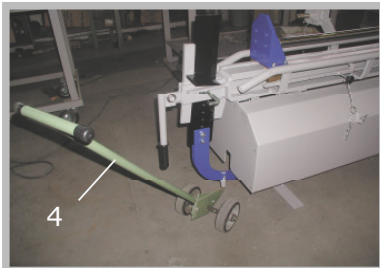


Fig. 7

A special optional handle rod (Figure 7, Position 4) is available on request.

This rod attaches to the special socket purposely located underneath the wedge assembly. Bolt the rod to this socket for efficient and more comfortable handling.

Before pulling the splitter up, make sure to secure the wedge seating with a safety pin. Now you are ready to safely move and turn the splitter around.

7. REPAIRS AND MAINTENANCE



Make sure that the machine is fully disconnected and all moving parts are secured before performing any maintenance/repair work on the machine.

7.1 Regular maintenance

Make maintenance a regular part of daily operation. The daily maintenance routine needs to include:

- Cleaning of the machine and clearing of all parts from residual wood debris, chips, dust, bark pieces and eventual other waste
- Greasing of the sliding pads of the push-block
- Hydraulic oil check and (in case of leakage) hydraulic hose and fittings check-up to detect eventual oil leaks. (To do so, you first need to dismount the rear panel of the steel casing, see figure „Oil change“)
- Lubrication of all moving parts.

7.2 Hydraulic oil

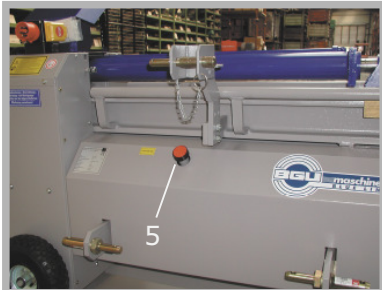


Fig. 8

Periodically check the oil level inside the hydraulic oil tank. When doing so, accurately avoid contaminating the tank with dirt, wood chips, saw dust etc...

Make sure that the splitter never runs without oil or with a low oil level. When this happens, air is likely to reach inside the hydraulic loop. Failure to maintain due oil level may cause poor running and irregular splitter operation (very rough, jerky motions) as well as major pump damages.

Please schedule your first oil change after approximately 25-30 operation hours and later ones after each 50 operation hours or once a year.

The oil drain plug is located on the bottom tank side while the filler cap is on the rear side of the splitter (Figure 8, Position 5).

Recommended oil types:

DEA HD B 46, Shell Tellus 10-46, Esso Nuto H 46

When changing oil, never let used oil drop down on the ground, rather collect whole of it in a sealed container for due disposal. Oil disposal containers should be of at least 30 l capacity. If you are using smaller containers, make sure to drain the tank in more than one round to avoid spilling old oil out on the ground.

Used oil is very polluting and should be disposed in accordance with local rules!

After refilling the tank with new oil, let the splitter cycle three or four times and let the air blow out of the hydraulic loop before closing the cap.

7.3 Sliding pads inside the log carriage



Fig. 9

Should irregular noisy knocks be heard while the ram is shifting back and forth, grease the plastic sliding pads located inside the log carriage. Preferably use commercial grease available in your country. The noisy knocks should disappear after greasing.

Should you detect an unusually larger gap between the push-block and the sliding pads, sliding pads are likely to be worn out. If so replace them with brand new ones.

To do so, first release both hex nuts (SW 19) on the cylinder flange (see figure 9).

Now shift the cylinder half way through the log carriage, undo all 4 push-plate bolts and flip the flange off from one side (figure 10).



Fig. 10

Slightly raise the push-plate up, remove the old pads from underneath the push-block and slip new ones in.

Now screw the pads back to the push-plate, shift the push-block back against the steel casing and finally screw the cylinder flange to the steel casing again.

8. DISMOUNTING AND SCRAPPING AN OBSOLETE MACHINE

When the splitter is fully obsolete and cannot be of any longer use, it should be duly dismantled ahead of discarding. Certain components need deactivation and dismantling in order to assure that no further use is made by other parties and that no worn out parts are recycled for other applications.

During dismantle be alert for possible recyclable materials and components that belong to differentiated waste collection procedures applicable in your country.

The manufacturer is not liable and undertakes no responsibility for personal injuries or damages that may result from the recycling of worn out machine parts for eventual re-use in other applications different than originally stated in this manual.

Dismantling procedure:

Take good note please: each and every dismantling task must be performed by authorized service centres or trained skilled staff only!

- Lock and clamp all moving machine parts before pulling the machine down into single components
- Deliver each single component only to authorized waste management facilities
- Drain oil and fuel out of respective tanks and lines before disposal of the machine
- Remove rubber and plastic parts from the machine that must be separately disposed of

Deactivated, clamped moving/driving parts and components are of no further risk and danger.

Electric components must be separately disposed to avoid substantial environmental threat.

In the event of the fire on the electric deployment system of the machine, use of an explosion-proof extinguish system is required (for example powder fire extinguishers).

9. TECHNICAL DATA

Technical data	Unit measure	SM 500 Z	SM 500 / 400 V
Max log capacity (length)	mm	1070	1070
Max log diameter	mm	300	300
Splitting force	t	9	9
Max operating pressure	bar	235	235
Max PTO (shaft) speed	RPM	540	
under permanent load	RPM	420	
Motor power P1	kW		4,0
Rated current	A		6,8
Motor speed	RPM		2845
Rated voltage	V		400
Domestic overload safety	A		16 line prot. fuse
Out-to-out transport length	mm	1870	1870
Length with extension table	mm	3400	3400
Height	mm	1200	1200
Width	mm	700	700
Weight	kg	310	330
Oil tank capacity	l	30	30

* The actual splitting force may vary $\pm 10\%$ of the nominal rating.

9.1 Noise level & emissions

Noise emissions were measured in accordance with the European directives for the measurement of noise emissions on the workplace. The measurement was performed by external authorized certification bodies in compliance with the applicable standards based on applicable rules for agricultural and forestry equipment.

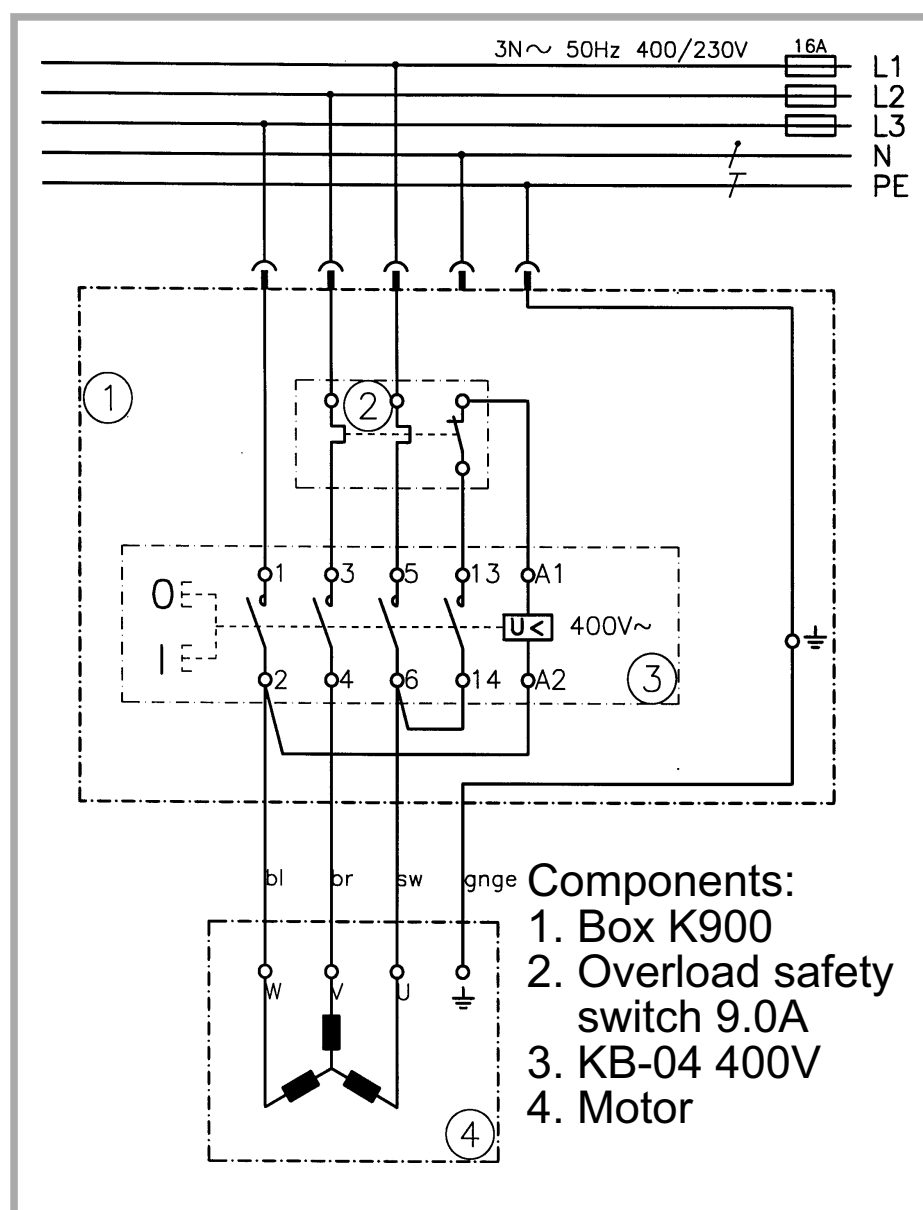
Noise levels were detected and measured 1600mm high above the machine and 1000mm away in front of it. The detected noise level was:

LpA = 80 dB(A)

10. ELECTRICAL DEPLOYMENT SYSTEM

BEWARE: only let expert skilled staff do electric repair/maintenance works!

As for all electric tools and equipment we strongly recommend use a portable residual current device (PRCD), unless you already have a residual current device (RCD) in your house assuring safety and protection up to max 0.03A nominal fault current.



11. OTHER AREAS OF POSSIBLE DANGER

11.1 Mechanical dangers

Possible dangers related to machine moving parts (push-plate) are minimized by means of suitable safeties and protections that cannot be dismounted unless special tools and equipment is used.

DO NOT EVER ATTEMPT to remove or by-pass the two-hands control. The splitter won't work if one of the control levers gets permanently clamped down!

Do not remove any other safety and protection device from the machine. Danger: operating the splitter without the safety two-hands control will increase your risk of having your hands pinched during the splitting cycle.

11.2 Electric dangers

All machine parts staying under voltage are duly insulated or sealed inside a fixed casing to avoid accidental contact. For safety reasons all fixed casings can be only removed using special tools and equipment.

WARNING: removing a fixed protection casing when the machine is running or without having priority cut the power off, may result into major danger of electrical shock!

12. LEGAL WARRANTY

All BGU machines are covered with legal warranty. Customers should promptly notify eventual material, production or workmanship claims on their detection. While asking for warranty service, customers should show copy of their purchase invoice or receipt. The warranty does not cover for faults due to natural wear, temperature or weather agents as well as misuse, faulty installation, operation, improper lubrication or physical damages.

No warranty will be given on parts damaged by improper handling or wrong connections. No warranty applies for cases of major force or of misuse (for example modifications of the machine or customized installations done by the customers or unauthorized thirds). No warranty is given in case of machine overload.

Consumable parts (pads, wedges and general materials) as well as adjustment and/or setting and retrofitting services are not included in this warranty.

13. EXTENDEND WARRANTY

All SÚMA equipment is covered with 24 or 12 months total warranty from the date of purchase for private/industrial users and rentals. The total warranty does not substitute nor void the legal warranty. Customers should promptly notify eventual material, production or workmanship claims on their detection. While asking for warranty service, customers should provide copy of their purchase invoice or receipt.

Buyer's address and type/model of equipment must be clearly stated in the case of industrial users/contractors/dealers. All claims related to material or production failures during the extended warranty time, shall be repaired notwithstanding eventual user's faulty/wrong operation or maintenance.

14. EC – STATEMENT OF COMPLIANCE

to the EC Machines Directive No. 98/37 Annexe IIA and EMV (Low Voltage) Directive 108/2007

We hereby declare that the equipment described in this manual responds in full to the actual version brought on the market. We, the manufacturer further declare that this equipment was duly designed and manufactured in accordance with the actual European Safety and Health Standards settled by the relevant EC directives as well as the latest electromagnetic standards issued by the European Council of 3.5.89 and later enforced by all member states. This statement of compliance does not apply to customer modifications of the equipment without manufacturer's written approval.

Machine type: Hydraulic log splitter

Models: SM 500 Z / SM 500 E

Serial production number: see manufacturer's label

Applicable European Standards: EC Machine Directive (98/37 EG) and following additions and amendments.
EC Low Voltage Directive LVD 73/23 amended by LVD 93/68
EMC Directive 89/336/EEC

Other harmonised Standards and technical specifications
EN 609-1 Safety of wood splitting machines (log splitters, logging & splitting equipment):
DIN EN 55014 T1
DIN EN 55014 T2
DIN EN 50104
DIN EN 61000-3-2
DIN EN 61000-3-3

14.10.2016

Date

Official user language: English



René Pareis (CEO)

(User's release)



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