

USER'S MANUAL

Carefully read entire manual before operating the firewood machine!

Setup & installation
use
Maintenance
accessories

HYDRAULIC LOG SPLITTER THS 4



Südhärzer Maschinenbau GmbH
Helmestraße 94 · 99734 Nordhausen/Harz
Receptionist: ☎ 03631/6297-0 · 📠 -111
Internet: www.bgu-maschinen.de
e-mail: info@bgu-maschinen.de



CONTENT

1. General information	3
1.1 About the manual	3
1.2 General information	3
1.3 Delivery and transport claims	3
2. Product overview	5
3. Warning label and safety decals on the machine	6
4. Safety	8
4.1 General safety rules	8
4.2 Personal safety	10
4.3 Compliant use	10
4.4 Electric safety	10
5. Operation	11
5.1. Machine placement	11
5.2. Start-up	11
5.3. Electric specs	11
5.4. Hydraulic specs	12
5.5. Operating your log splitter	12
5.6. Splitting tips	12
5.7. Splitting cycle	13
5.8. End of the work	13
6. Repairs and maintenance	14
6.1 Ordinary periodic maintenance	14
6.2 Sharpening the splitting wedge	14
6.3 Hydraulic oil specs	14
6.4 Changing the hydraulic oil	15
7. Dismounting and disposing an obsolete machine	16
8. Other areas of possible danger	16
8.1 Mechanical dangers	16
8.2 Electric dangers	16
9. Partial warranty	17
10. Full warranty	17
11. Technical data	18
12. Troubleshooting	19
13. Spare parts list	20
14. EC Statement of compliance	21

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.



Please read this manual before the installation and the startup of this equipment!

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 24 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. If you are experiencing a problem or functional trouble on your machine, please read the "trouble-shooting" section to identify possible causes and remedies. If the problem or functional trouble is not listed in the troubleshooting chart contained in this manual, ask your Authorized Service Centre for service. 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 General information

This manual contains some of the most important safety warnings which must be read and understood before the installation and startup of the equipment. It also contains important instructions that will help you optimize the operation and the lifetime of your machine.

1.3 Delivery and transport claims

Upon delivery of the machine please inspect the machine if any parts are damaged such as damaged packing or scratched buckled parts. If so, make a remark on all copies of the delivery bill before signing for acceptance.

Scope of delivery:

- 1 fully assembled log splitter
- 1 User's manual
- 1 Control lever

Also have the truck driver sign al 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.

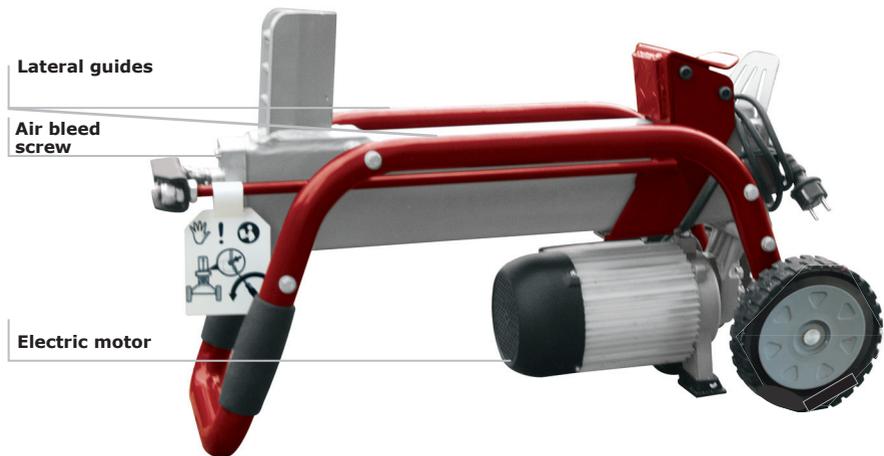
No claims shall be taken into account by the shipper or by the insurance company, if a reservation note is not made on the delivery

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

Log splitter main parts and controls:



3. WARNING LABEL AND SAFETY DECALS



1. Operation safety label

Warning label „Read before use“ Never operate the machine without reading or understanding the operator’s.



2. Operation safety label

Safety decal “WARNING! Always wear safety shoes”. Wearing safety shoes is advisable and particularly for continuous operation of the machine



3. Operation safety label

Safety decal “WARNING! Always wear safety gloves” Wearing safety gloves is advisable and particularly for continuous operation of the machine.



4. Operation safety label

Safety decal „Wear ear plugs and goggles“ Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as ear plugs or goggles.



5. Operation safety label

It is strictly forbidden to run the machine without its safeties and protections, to bypass or to modify them.



6. Operation safety label

Warning label KEEP BYSTANDERS AWAY „5 meter dangerous area!“, Do not let bystanders, children or pets approach the machine and stand within the dangerous area during operation.



7. Operation safety label

„DANGER! Pinched hands danger!“ Keep your hands away from all moving parts! Pinched hands danger.



8. Operation safety label

Danger! Moving part! Mind the splitting wedge and keep your hands away while it works.



9. Operation safety label

DANGER!
Never try to clear a jammed log with your hands!



10. Operation safety label

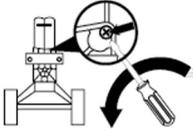
Before setting-up, servicing, maintaining and cleaning the machine, disengage all power and stop the engine.



11. Operation safety label

Stop!

Read, understand, and follow all instructions in this manual and bleed residual air out of the hydraulic lines before starting! (see page 12).



BGU maschinen		CE
Typ	HS 7 Classic	
Fabriknummer	080105-403	0,3 CE
Nennleistungspannung	400V	
Stromart	3xPE+NCS 400V	
Leistung P1	3,0kW	
Spindeldruck	75	
Druckzahl	2840 1/min	
max. Betriebsdruck	220 bar	
Gewicht	110 kg	

12. Identification label

„Product Identification“ This label shows the company details of the manufacturer and the main machine technical data.



13. Identification label with „BGU-Maschinen“ logo



The following warning symbols are used in this manual with this meaning:

WARNING

This symbol precedes a general CAUTION or WARNING statement. Where you see this alert symbol and WARNING heading, strictly follow the warning instructions to avoid personal injury. A „notebook“ symbol precedes an important instruction meant to facilitate and optimize working with the machine.



Product/Packing Disposal Symbol

Electric components may not be disposed with your home waste. Electric wares, their accessories and their packings must be disposed in accordance to the environmental/waste disposal rules of your country.

4. SAFETY



Strictly perform installation, set-up, maintenance, cleaning and transport with the motor switched off and the blade firmly secured against accidental operation. Immediately disconnect power off in case of any eventual fault or trouble.

The user shall comply with these operation, set-up, maintenance, repair and trouble shooting instructions in order to assure safe operation and no damages to the equipment. Moreover we recommend letting the machine be run only and strictly by trained and skilled staff that must be familiar with the applicable occupational safety and health administration rules as well as applicable transportation rules. 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. The working area around the machine must be kept as clear as possible from surrounding obstacles and slippery foundation floors should be duly treated (do not use saw dust or wood ash for this purpose). Make sure that the equipment stands on a safe stable foundation.

4.1 General safety rules

Following precautions must be taken at all times:

- Only skilled competent persons may be assigned to operate the machine. No one under the age of 18 should be allowed to operate the log splitter.
- Do not allow within the hazardous zone any unauthorized thirds or persons who are not familiar with the dangers related to use and operation of the machine and do not perform uncompliant use of the machine. REMEMBER: the operator is responsible for safety of all nearby thirds on site.
- Operators must wear steel toe safety shoes and snug-fitting tear-resistant work cloths.
- Operators must wear hearing protection, safety glasses, safety shoes, helmets, gloves and other adequate protection means.
- Wear protective hair covering to contain long hair during operation.
- Always comply with these instructions when your start/operate the machine.
- NEVER leave the machine unattended with the running motor. Before switching power on and putting the winch to work make sure that there are no bystanders in the dangerous area and that you have good and clear visibility on the work area.

- Before operating the machine for the first time inspect and test all safety and protection devices (i.e. Two-hands control lever, hand guards etc...) and safety stops.
- After switching the machine on and before starting to work make sure that all parts and controls are duly functioning and in place.
- Set up the machine on a firm surface and ensure that a wide but confined area is available around the machine assuring maximum working freedom.
- NEVER use the machine for other applications than described under the sections „applicable use“ and „operating your splitter“.
- 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.
- Never stand behind the push-block or near the control handle while the machine is running. Never reach inside the dangerous area around the splitter wedge.
- Refrain from working with the log splitter if you are too tired or under the effects of drugs, alcohol or other medicaments.
- Keep your workplace tidy and as clear as possible from surrounding obstacles to avoid dangerous situations for your own safety!
- Due and proper illumination of the working site must be provided at all times. Avoid overloading your machine.
- Never modify or add parts to the machine.
- DANGER! Do not operate and do not park the machine in rainy weather. Always operate/store in a dry room away from children reach.
- Switch the machine off and disconnect power before:
 - Transportation
 - Repairs and adjustment works
 - Troubleshooting operations
 - Cleaning and maintenance works
 - leaving the unit unattended (even for just a short time)
- Inspect the machine and fix eventual damages or anomalies before continuing to work with it:
 - all guards must be in faultless state and conditions before starting to work.
 - all parts must be free of faults and defects and duly seated in their place on the machine
 - Eventual defective or damaged guards and parts must be repaired or replaced with new original ones by a skilled technician or an authorised service centre, unless other instructions are given in this manual.
- Replace safety labels on the machine as they become torn or not readable any longer.



4.2 Personal safety

Wear the following mandatory personal safeties while operating the machine:

- Summer/winter safety gloves
- Safety glasses/goggles • Ear plugs or muffs
- Snug-fitting work clothes
- Steel toe safety shoes

4.3 Compliant use

- The log splitter is strictly designed for residential users splitting short firewood at home.
- Always split straight logs and grain-wise. Never split more than one log at a time.
- Metal parts (wires, nails etc...) must be removed before splitting.
- No other use is permitted and shall be considered as uncompliant. The manufacturer is not liable for damages/injuries caused by eventual uncompliant use for which the operator will be solely responsible.

Lack of compliance with these instructions may lead to dangerous risks and situations and will void all warranty claims, in which case the manufacturer will not be responsible for customers' claims or resulting damages and/or injuries.

4.4 Electric safety

- Use IEC power cords 60245 (H 07 RN-F) with at least 2.5 qmm section of the cables up to max 10 m length.
- Do not use extention cords longer than 10 m, that may cause undesired voltage loss whereby the motor cannot reach its max power.
- Install and connect the machine so to avoid possible squeezing, crimping and folding of the cable and to prevent the plug from getting wet.
- Protect the cable from any heat source, oil contact and sharp objects.

Never use electric power cable for any other application and never pull the cable to unplug the machine.

- Never use defective or damaged connection lines and periodically check the state of the extention cables.
- If you are using the machine outdoors make sure to strictly use connection materials approved for outdoor application.
- Never make use of temporary electric connections and never bypass/remove the safeties built by the manufacturer in the machine.



- A skilled licensed electrician must be asked for any repair of the electric system. Strictly perform electric connections in compliance with the applicable rules of the country.
- Strictly use original parts. DANGER : the manufacturer is not responsible for damages/injuries caused by the use of non original spare parts.
- Repairs of any other part of the machine may be strictly performed by the manufacturer.

5. OPERATION

5.1. Placement

- Install the splitter on a 60 - 75 cm high table, to obtain an ergonomic and safe working position.
- Provide a flat, clear working surface and due, proper illumination of the room.
- Never operate a log-splitter near diesel oil, fuel, gasoline or other flammable materials.
- The working area around the machine must be kept as clear as possible from surrounding obstacles and slippery foundation floors should be duly treated.

5.2. Start-up



- Before you start working with the log-splitter:
 - inspect the conditions of the connection lines
 - inspect the machine to detect eventual visible damages
 - check the correct tightness of all screws and
 - check the hydraulic system for eventual leaks
- Check the general conditions and make sure that the splitter is duly assembled with all its parts and fittings.

5.3. Electric specs

- Check the compliance of your network power specifications with the ones of the identification label and plug the machine to a compliant approved socket.
- Strictly use extension cable of the correct section.
- Provide connection to the network by ways of a 30 mA RCD (residual current device).
- Required domestic overload safety is 16 A.

5.4. Hydraulic specs

- NEVER operate your splitter in case of suspected oil leaks or hydraulic troubles. Check all hydraulic hoses, fittings and couplings to detect and repair eventual oil leaks. Do not check for leaks with your hand.
- 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.
- Periodically check the oil level inside the hydraulic oil tank. (See maintenance section)

5.5. Operating your log splitter



Figure 1

- On/Off switch
Press and hold the green push-button down to switch the unit on. The motor keeps running till you keep the push-button pressed down. The motor stops at once, as soon as you remove your finger and clear pressure from the push-button.
- Press the push-button down and wait a few seconds for the motor to reach its max speed and for regular operating pressure to be established in the machine. Then press the control button down as you concurrently hold the on/off switch engaged. (see picture 1)
- While doing this, the push-block starts advancing the log to and through the wedge to completely split it in two pieces. Release the control handle and the control button at once to trigger the back travel of the ram making the push-block return to start position.

5.6. Splitting tips



- Initial checkups
Make sure that your logs are max :
 - 370 mm long
 - 50 - 250 mm diam

Accurately select your firewood making sure to strictly process quite clean and straight logs. DO NOT TRY to split short but crooked chunks on this machine.

The location you choose for your machine should be flat, dry, solid and with sufficient clearance.

- Safety air-bleeding

Release the air-bleed screw by 3 or 4 turns (Figure 2). Do not tighten the screw till you are finished with your work. IMPORTANT! make sure that the screw is tightened before you handle the machine for further transportation.

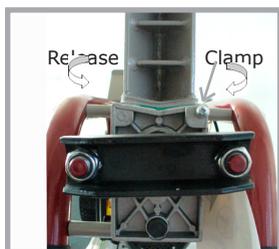


Figure 2

5.7. Splitting cycle



Figure 3



Figure. 4

- Load your chunk on the machine laying it firmly between the lateral guides and against the push-block. Always split the log grain-wise. Do not attempt to split the logs standing vertical on the machine. The log must be securely laid in the cradle. (see figure 3)

- Do not attempt to split with the log skewed across its seat between the lateral guides. (see figure 4)

- Make sure that the log is securely clamped between and perpendicular to the wedge and to the push-block. NEVER try to split two chunks at a time. If the log tends to wobble, reposition it by turning it. This operation MUST BE PERFORMED with the machine stopped after all moving parts have come to a complete STOP.

- Never try to hold the pressure up for a longer time to force a big log through the wedge. Doing this may cause dangerous overloads that may damage the machine.

In this case stop the machine, turn the chunk around and try again.



Clearing logs sticking to the wedge:

- **Clear both control buttons and control handle to let the push-block return to start position.**
- **Fit a wooden block underneath the sticking log, then operate the pusher to advance it against this block.**
- **If the log remains attached to the wedge, repeat the procedure using each time a bigger block.**
- **DANGER! Never try to clear a jammed log by hand or by hammering on it. Keep your hand away from the dangerous wedge area! Hammering or hitting on a jammed log may cause strong shocks that may cause even permanent damage to the motor!**
- **This splitter is a ONE-MAN operation machine. NEVER let more than one person operate or work with the machine at the same time.**

5.8. End of the work

- At the end of the work, make sure that the push-block drives back to start position
- Unplug the machine and tighten the air-bleed screw again (see figure 2)
- Provide consistent compliance with these maintenance instructions.

6. 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. In the event of any malfunctioning, switch the machine off before trouble-shooting.

6.1 Ordinary periodic 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 piston rod pads inside the splitter stand.
- Hydraulic oil check and (in case of leakage) hydraulic hose and fittings check-up to detect eventual oil leaks.
- Lubrication of all moving parts.
- Always wear protective no-tear gloves when performing maintenance works on the machine.

6.2 Sharpening the splitting wedge



A dull wedge profile will immediately lead to a poor splitting quality. For this reason the wedge must be regularly grounded using a fine grinding file. Make sure to remove chips and dust before using the splitter again. (see figure 5)

6.3 Hydraulic oil specs

Periodically check the oil level inside the hydraulic oil tank. When doing so, accurately avoid contaminating the tank with dirt, wood chips, sawdust 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, back/forth or up/down motions) as well as major pump damages.

Perform the first oil change after approx 50 operation hours and then again every 250 operation hours or once a year.

The oil drain plug is located underneath the oil tank while the oil filler is located on the upper right-hand-side of the tank.

Recommended oil types:

Aral Vitam Gf 22, Shell Tellus T22, Mobil DT1, BP Energol HLP 22 Code Nr. 400142 (1 l) or equivalent ones

Never allow use of other types of oils. DANGER : other oil types may not be suitable for the machine and effect proper functioning of the hydraulic ram.

6.4 Changing the hydraulic oil



Figure 6

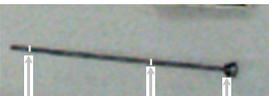


Figure 7

- Drive the push-block back to start position.
- When changing the 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 4 l capacity.
- Release and remove the oil dipper rod and pull it without extracting the oil gasket (Figure 6).
- Tip the splitter over and set it upright on its wheels to drain the oil out of the pressure lines. (Figure 7)
- Then tip the splitter over again till the oil filler is facing up. This is a very easy one-man operation!
- Fill the new oil in (2.7 l) using a new clean funnel.
- Clean both the dipper rod and the oil gasket making sure that the gasket is tightly in place. Worn out gasket should be replaced before starting to work again.
- Secure the dipper rod tightly in place avoiding to apply excessive torque on the screw and therefore to avoid damaging the oil gasket and the thread of the cylinder cap.



• Used oil is very polluting and should be disposed in accordance with local rules! Do not spill nor dispose used oil with other domestic waste.

Lower
markUpper
markRubber
seal

• Checking the oil level

- Unscrew and pull the dipper rod out, clean the rod and the gasket (broken gaskets to be replaced).

- Dip the rod back in down to the stop and then pull it out again.

☛ If the oil level is between the two marks, it means the oil level the tank is enough.

☛ If the level hardly reach the lower mark, then you need to top up oil in the tank using a new/clean funnel.

- Dip and screw the rod back in.

7. DISMOUNTING/DISPOSING THE 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!

- Pull the machine down into single components
- Lock and clamp all moving machine parts
- Deliver each single component only to authorized waste management facilities

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

8. OTHER AREA OF POSSIBLE DANGER

8.1 Mechanical dangers

All moving parts on the machine (hammers and V-belt) are protected by permanent safety guards minimising risks and dangers related to moving parts on the machine. No accidental removal of the guards will be possible, as special tools will be required to dismantle them.

WARNING: operating the machine without the safeties will increase your risk of getting injured.

8.2 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!

9. PARTIAL WARRANTY

All our machines are covered with warranty terms in accordance with the law. Customers should promptly notify the manufacturer eventual-material or production claims on their detection. While asking for warranty service, customer 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 or set-up, improper operation and lubrication or acts of vandalism. No warranty will be given on parts damaged by improper handling, use and application. The manufacturer is further not responsible for warranty service on machines used for other applications than mentioned in this manual, altered or modified by the customer or other thirds, or overloaded. Never attempt to use an incomplete machine or one fitted with unauthorized modification. Any modifications to your machine can cause personal injuries, and will void your Warranty. Consumable parts with a prescribed life (i.e. pulleys, tools and various auxiliary materials) are excluded from the warranty as well as adjustment, optimization and fine-setting or retrofitting works.

10. FULL 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 show 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 total warranty time, shall be repaired notwithstanding eventual user's faulty/wrong operation or maintenance.

11. TECHNICAL DATA

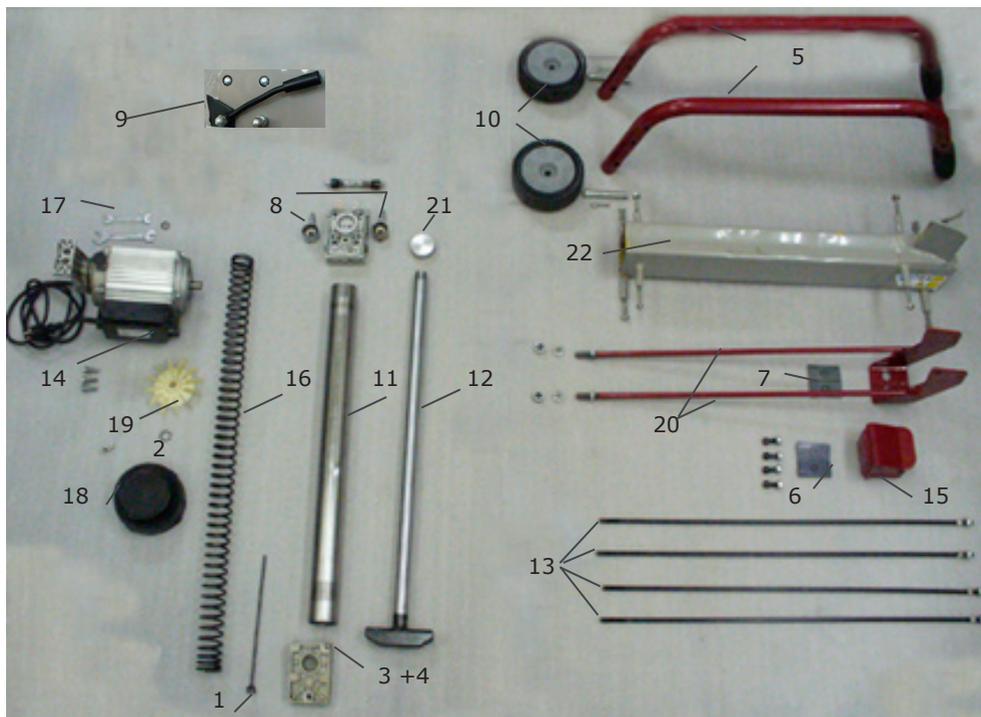
Technical data	Measuring unit	THS 4
Log capacity	mm	350
Min. log diameter	mm	50
Max. log diameter	mm	250
Splitting power	t	4
Motor power P1	kW	1,5
Rated voltage	V	230 - 50 Hz
Motor speed	1/min	2820
Rated current	V	8,5
Machine heighth	mm	480
Machine width	mm	360
Machine length	mm	810
Machine weight	kg	41
Oil capacity (Tank)	l	2,7

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

12. TROUBLESHOOTING CHART

Type of malfunction	Possible origins of the problem	Solutions
Cannot split the log (insufficient splitting power)	<ul style="list-style-type: none"> • Chunk is misplaced • Chunk is too long or its hardness exceeds the capacity of the machine • Wedge is worn out • Search for possible oil leakage • Hydraulic pressure is too low • Connection faults (power line/extension is longer than 10 m or the section is too small) 	<ul style="list-style-type: none"> • Relocate and settle the chunk • Reduce the chunk to admissible dimensions • Grind the wedge. Remove dust and chips from the machine • Do not check for leaks with your hand. Leaks can be located by passing a piece of cardboard or wood around the suspected leak and looking for discoloration. Let the manufacturer fix eventual leaks. • Check the oil level and top up if required. Contact the manufacturer if the problems remains or occurs frequently. • Use admissible connections
Push-block sways and wobbles or strongly vibrates as it advances.	<ul style="list-style-type: none"> • Residual air in the hydraulic lines 	<ul style="list-style-type: none"> • Remove air bleed screw • Check the oil level and top up if required. Contact the manufacturer if the problems remains or occurs frequently.
Push-block does not start	<ul style="list-style-type: none"> • Faulty hydraulic pump. 	<ul style="list-style-type: none"> • Contact the manufacturer.
Motor does not start	<ul style="list-style-type: none"> • No power or power blackout • Fault power cable • Defective motor 	<ul style="list-style-type: none"> • Check your overload safety valve (16A) • Invert the cable connections or let a skilled electrician check the machine. • Contact the manufacture.
Oil leaks out of the dipper rod	<ul style="list-style-type: none"> • Dipper oil gasket is worn out 	<ul style="list-style-type: none"> • Replace the gasket

13. SPARE PARTS LIST



Pos. Nr.	Description	Pos. Nr.	Description
1	Dipper rod	12	Piston rod
2	Oil gasket	13	Stop rod
3	Air bleed screw	14	Motor with on/off switch
4	Seal for air bleed screw	15	Push block
5	Lateral (log) guides	16	Spring
6	Upper plastic pad	17	Set of keys & spares for drain plug
7	Lower plastic pad	18	Motor cover
8	Connectors	19	Fan blade
9	Control handle	20	Push-block guide
10	Wheels	21	Piston
11	Cylinder	22	Wedge slider

14. EC STATEMENT OF COMPLIANCE

to the EC Machines Directive No. 2006/42 EG

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 EEC 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:	Log Splitter
Model:	THS 4
Production number:	See manufacturer's plate
Applicable European Standards:	EEC Machine Directive Nr. 2006/42 EG EEC Low Voltage Directive (93/68 EWG) 2006/95/EG EC EMV 2004/108
Other applicable Standards	Full compliance to the European safety rules was assured by enforcement of the following harmonised Standards : EN 574; 1996 + A1 -2008 EN 609 -1; 1999 + A2 -2009 EN 55014-1:2006 EN 55014-2:1997+ A1:2001 EN 61000-3-2:2006
Person responsible for the technical documents:	Jörg Kernstock (Director)

04.12.2006

Date

Official user language: English



Jörg Kernstock (Director)

(User's release)







Südharzer Maschinenbau GmbH
Helmstraße 94 · 99734 Nordhausen/Harz
Service-Tel. + 49(0)3631/6297-104
Fax + 49(0)3631/6297-111
Internet: www.bgu-maschinen.de
e-mail: service@bgu-maschinen.de

Subject to changes and further modifications

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