# ORIGINAL INSTRUCTION MANUAL

Carefully read these instructions before starting and using your splitter!

- Set-up & installation
- Use
- Use
- Maintenance - Accessories

# (6

# SPALTMEISTER SM 300



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 300, 400 V, Splitting force 6 t SM 300, 230 V, Splitting force 6 t

All splitters are equipped with mechanical two-hands safety 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 16 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 a 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 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 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



#### SAFETY SIGNS AND WARNING LABELS 3.







### 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.

#### **Operation safety label** 3. "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 220 bar"

Maximum operating pressure is 220 bars.



p max 220

5. Operation safety label "Pinched hands danger!"

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



#### 6. Operation safety label "Check motor revolutions!" Avoid dangers and check motor revolutions upon starting when using a 400V motor..

#### 7. Machine safety label "Direction arrow"

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



#### 8. Operation safety label "Lubricate all guides and sliding parts every 10 operation hours!



#### 9. "BGU-Maschinen" manufacturer's logo

**10.** "Product Identification label" This label shows the company details of the manufacturer and the main technical data of the machine.

#### 11. Personal protection pictogram "Wear suitable protective gloves!"

- 12. Personal protection pictogram "Wear suitable protective boots!"
- 13. Personal protection pictogram "Wear ear plugs and goggles"
- **14.** Personal protection sign: "Read before use and mind these instructions!"



#### 15. Machine safety label "Moving parts"

#### 16. Safety-alert symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safetyalert symbol!

# 4. SAFETY

#### Strictly perform installation, transportation with the mot secured against accidental power off the machine in ca

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

The user shall strictly 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 to let the machine be run only and strictly by trained and skilled staff who must be familiar with the applicable occupational safety and health administration rules as well as applicable transportation rules. Incorrect use of the saw can cause serious injury or death.

No person under school leaving age should operate a circular saw. Those who have reached school leaving age but are below the age of 18 may operate a circular saw if supervised by a competent person of 18 years or over.

The machine shall be installed and kept in a suitable location selected by the customer for safest operation. The working area around the machine must be kept as clear as pos-sible 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.

• Due and proper illumination of the working site is provided at all times

• A wide but confi ned 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
- · Never leave the splitter unattended with its motor on

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

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

#### 4.1 Mandatory application fi eld

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 300" 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.

Misuse will completely void your warranty. The manufacturer accepts no liability for personal injuries and damages to other equipment caused by misusing the machine.

### 5. OPERATION

#### 5.1 Splitter set-up

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 undo the fixation screws on the casing and pull them out of their threaded seating. Shift the ram backward to make the flange reach tightly against the steel casing.

Now, screw the flange of the cylinder using the two hex screws on the casing.

Whilst tightening the screws make sure that the ram lay perfectly horizontal. 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 Electric specifications



Fig. 1

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!

If you are using an AC (230V motor) splitter version, the power cord section may not exceed 2,5mm<sup>2</sup> (standard power cord denomination: 3 x 2.5). Power-up is performed by means of a switch/plug combination. 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. 1) 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!

#### 5.3 Hydraulic specifications

The splitter has an independent hydraulic plant with tank and pump. The hydraulic tank is located in the floor stand of the machine and is always supplied by the manufacturer with a first hydraulic oil fill. BEWARE: an excessively backwards leaning position of the splitter during transportation may result into oil leakage from the oil plug. See page 16 for oil change instructions.



At low ambient temperature the oil in the hydraulic circuit will thicken. In this case, it is recommended to avoid sudden start-up (splitting without warming the motor up) that could result into damages and trouble of the hydraulic system. To assure trouble free operation of the hydraulic system at low ambient temperature, let the motor run idle and cycle the unit several times till the oil in the hydraulic loop warms up.

Setting of the main control valve is done in the factory before shipping. The unit comes to you ready for service so that no other adjustment/installation work is required.

#### 5.4 Initial check-up



Fig. 2

The log splitter is equipped with safety two-hands mechanical controls (Fig. 2) 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 twohands 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.

#### 5.5 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.

#### 5.6 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!

#### 5.7 Adjusting the ram travel



Fig. 3

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 your capacity on the machine, it is possible to adjust the ram stroke accordingly. Stepless ram stroke (4) adjustment is possible at all times. (Fig. 3)

Ram stroke (4) adjustment procedure:

Let the ram with the push-plate slide to the desired stroke length and shut the motor off. When you do this, make sure to keep engaging one of the control levers (1 in fig. 2) in order to prevent the ram from returning back to its initial position.

Now release the star-knob screw (5) on the length-stop rod underneath the log carriage and move it to the desired position. To lock the length stop in the new position, tighten the star-knob screw (5). The ram travel is reduced by an equivalent stroke length as the extent of shifting to the left of the length-stop rod length. Now, the push-plate (4) will no longer travel to its end position but rather stop at the new setting of the length-stop rod.

To regain the original full-stroke travel, release the star knob and let the push-plate slide back to its initial position. Make sure to retighten the star knob before operating the splitter again.

#### 5.8 Extension table

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.



Fig. 4

#### 5.9 Operation

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

Insert the central lug into the special slot in the front bracket of the cover plate. Now lift the extension table slightly up and keep settling it until the canted lugs are hooked up in the back of the mounting plates on the beam.

To remove the extension table (6), just slightly tip it over to release it.

Switch the splitter on. Load a chunk centrally on the log-carriage. Now push both handles down at the same time to start the cycle and engage the push-plate 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 push-plate 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. Do not attempt to catch the split 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.

#### 5.10 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



Fig. 5

Before handling, moving or transporting the splitter make sure to cut the power off (unplug the machine). This machine is conceived for very ergonomic easy handling thanks to the special wheel arrangement in the rear bottom part of the machine (fig. 5).

Dismount the extension table (6) Fig. 5. 2. To do this, fasten the handle (7) with one hand, pull the splitter up and start hauling it away on its back wheels.

For space-saving during storage and transportation the ram must be fully retracted over the carriage.

To retract the cylinder in trasport 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").

# 7. SPLITTING WEDGE AND CLEAVING WEDGE



Abb. 6

**On request**, the log splitter can be factory equipped with a 4-ways wedge (Pos. 8, Fig. 6) and/or a splay wedge (Pos. 9, Fig. 7). The 4-ways wedge (8) is designed for splitting each log in 4 sticks in one cycle.

The splay wedge (9) can be used for cleaving big, hardwood logs and facilitates breaking through the log.

4-ways wedge and splay wedge are simply slipped on the permanent wedge and secured by tightening of the star knob screw.



BEFORE STARTING THE CYCLE make sure that the 4-ways/ cleaving wedge or extension wedge is fully slipped-on the permanent wedge and secured in position!



Fig. 7

BEFORE STARTING THE CYCLE make sure that wedge is fully slippedon the permanent wedge and secured in position with the blade wings facing the operator side (Fig. 7). Do not work with a loosened wedge to avoid falling off during splitting! This is a very UNSAFE method and could result in major injuries to the operator and permanent machine damages.

Preferably refrain from using a 4-ways wedge on hard, heavy woods (for example flowering trees and beech wood) that are going to oppose a stronger resistance to the wedge causing the relief valve to actuate the hydraulic system leading to a more likely jamming of the wood.

This accessory is not included in the price of the standard machine.

# 8. 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.

#### 8.1 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 slider.

• Hydraulic oil check and (in case of leakage) hydraulic hose and fittings check-up to detect eventual oil leaks. To check the oil level remove the rear cover first.

• Lubrication of all moving parts.

#### 8.2 About 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, 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, back/forth or up/down motions) as well as major pump damages.

Please schedule your first oil change after approximately 50 operation hours and later ones after each 3000-5000 operation hours. The oil drain plug is located on the bottom tank side while the fillercap (10) is on the upper right hand side of the tank (see fig. 8).

#### **Recommended oil types:**

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

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 9 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.

#### 8.3 Sliding pads



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 and the sliding pads (see section 8.4), 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) and take the pad out.

Slightly raise the push-plate up, remove the old pads from underneath the push-block and slip new ones in.(see section 8.4) .

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.

Abb. 10

#### 8.4 Consumables

Lower sliding pad (Part no. 53058)

Hydraulic hoses (replace every 4-5 years)

Hydraulic oil and filter cartridge (replace every 3000-5000 operation hours)

### 9. DISPOSAL

When the splitter is fully obsolete and cannot be of any longer use, it should be duly dismounted 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

 $\bullet$  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).

# **10. TECHNICAL DATA**

Technical data	Unit of mea- surement	SM 300 400 V	SM 300 230 V
Max log capacity (length)	mm	570	570
Min. log diameter	mm	70	70
Max. log diameter	mm	300	300
Slitting force*	t	6	6
Max. operating pressure	bar	220	190
Motor power P1	kW	3,0	2,2
Rated voltage	V	400 3N/PE/AC2	230 2N/PE/AC2
Domestic overload safety	А	16 fuses	16 fuses
Out-to-out length in transport asset	mm	1200	1200
Out-to-out length w. extension table	mm	1520	1520
Height	mm	1200	1200
Width	mm	600	600
Weight	kg	138	138
Oil tank capacity	1	9,0	9,0

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

#### 10.1 Noise level and 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 = 79 dB(A).

# **11. WIRING DIAGRAM**



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.



400 V version





# **12. OTHER AREAS OF POSSIBLE DANGER**

#### 12.1 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.

#### 12.2 Electric danger

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.

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

### **13. 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 modifi cations 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.

### **14. EXTENDED WARRANTY**

All SÜMA 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.

# **15. SPARE PARTS FOR SM 300**





Pos.	Bezeichnung	No.	DIN	Dimensions
1	Complete casing	19512		
2	Riveted casing	19512		
3	Guard	19496		
4	Guard, operator's side	19521		
5	Mounting plate	19497		
6	Standard blind rivet	53457	DIN 7337	A6,4x12
7	Galvanized blind rivet	51616		M6 L=14
8	Complete tank	19508		
9	Hand guard	19519		
10	Rear guard	19495		
11	Cover plate	19520		
12	Galvanized nut for blind rivet	51616		M6 L=14
13	Hex head cap screw	53040	DIN 7380	M6x16
14	Hex head cap screw	53040	DIN 7380	M6x16
15	Washer	51696	DIN 9021	6,4
16	Galvanized blind rivet	51616		M6 L=14
17	Hex head cap screw	53040	DIN 7380	M6x16
18	Hex head cap screw	53959	DIN 7380	M10x20
19	Self-locking hex nut	51608	DIN 985	M10
20	Motor MA-AL 90L24B5	52028		230/400V
20	Motor ASI MAN B5	50751		230V
21	Pump mount GP1	50580		
22	Flexible coupling	53007		
23	Socket head screw	51342	DIN 912	M6x25
24	Spring washer	51193	DIN 137	B 6
25	Socket head screw	51366	DIN 912	M10x45
26	Lock washer	51707	DIN 127	B 10
27	Hex nut	51594	DIN 934	M10
28	Toothed lock washer (external teeth)	51690	DIN 6797	A10,5
29	Washer	51649	DIN 125	10,5
30	Hex head cap screw	53954	DIN 7380	M6x12
31	Self-locking hex nut	51954	DIN 7380	M6x12

Pos.	Description	Nr.	DIN	Dimensions
34	Complete wedge slider	19509		
35	Square ribbed insert	52774		40x20
36	Push-plate	19511		
37	Complete push-plate	19516		
38	Bolt-on steel angle	19507		
39	Hex head cap screw	53951	DIN 7380	M10x30
40	Self-locking hex nut	51608	DIN 985	M10
41	Washer	51698	DIN 9021	10,5
42	Bottom guide	16069		
43	Hydraulic cylinder	19522		
44	Dowel	53293	DIN 1481	10x60
45	Hex screw	51480	DIN 933	M12x40
46	Lock washer	51708	DIN 127	B12
47	Washer	51650	DIN 125	13
48	Leg assembly	19514		
49	Leg	19494		
50	Front guard	19491		
51	Standard blind rivet	53457	DIN 7337	A6,4x12
52	Grip handle	51035		B=26 L=134
53	Socket head screw	51350	DIN 912	M8x20
54	Self-locking hex nut	51601	DIN 985	M8
55	Galvanized blind rivet	53361		M8 L=16
56	Hex screw	51446	DIN 933	M8x25
57	Lock washer	51706	DIN 127	B8
58	Washer	51648	DIN 125	8,4
59	Complete control unit	19527		
60	Guide for control rods	19529		
61	Pivot	19532		
62	Bracket	19480		
63	Control rod	19536		
64	Star-knob screw	52252		D=40 M8x55
65	Control lever	19538		
66	Switch-off lever	19535		

Pos.	Description	Nr.	DIN	Dimensions
67	Rocker arm	19502		
68	Self-locking hex nut	51608	DIN 985	M10
69	Standard bind rivet	53457	DIN 7337	A6,4x12
70	Hex screw	51404	DIN 931	M10x40
71	Washer	51649	DIN 125	10,5
72	Self-locking hex nut	51608	DIN 985	M10
73	Standard bind rivet	53457	DIN 7337	A6,4x12
74	Hex screw	51404	DIN 931	M10x40
75	Washer	51649	DIN 125	10,5
76	Self-locking hex nut	51608	DIN 985	M10
77	Hex screw	51430	DIN 933	M6x18
78	Self-locking hex nut	51606	DIN 985	M6
79	Eyebolt	53904		M8x60
80	Hex nut	51592	DIN 934	M8
81	Hex head cap screw	53958	DIN 7380	M8x55
82	Self-locking hex nut	51607	DIN 985	M8
83	Rectangular dip moulded ferrule	51036		a=30 b=6 l=130
84	Hydraulic pack	19513		
85	Screw-on hose clip	50528		d=24 b=12
86	Hydraulic hose	52578		1SN 16 210 lg
87	Screw-on hose clip	50528		d=24 b=12
88	Return flow pipe	11983		
89	Gear pump GP1	50560	3,8cm <sup>3</sup> /Rev	230/400 V
89	Gear pump GP1	50561	2,5cm <sup>3</sup> /Rev	230 V
90	Straight male stud coupling	50628		L12 G3/8"A
91	Hydraulic hose	52737		2SN 10-390 lg
92	Adjustable stud elbow	50643		L12 M18x1,5
93	Male stud elbow	52160		L12 R3/8"
94	Control valve	50590		
95	Gerade E-Verschraubung	50628		L12 G3/8"
96	Hydraulic hose	53955		2SN 10.900 lg
97	Straight male stud coupling	50628		L12 G3/8"
98	Hydraulic hose	53956		1SN 10-900 lg

Pos.	Bezeichnung	Nr.	DIN	Abmasse
103	Hydraulic hose	54169		1SN 16 235 lg
104	Screw-on hose clip	50528		d=24 b=12
105	Straight coupling	54074		L 12
106	Screw plug	53062	DIN 910	3/4"
107	Copper ring	53152		d=26 D=31
108	Filler plug	14621		
109	Extension table, complete assembly	19544		
110	Casing	19492		
111	Galvanized blind nut	51616		M6 L=14
112	Hex head cap screw	53040	DIN 7380	M6x16
113	Axle	14603		
115	Wheels	52565		200x50x16
115	Washer	51652	DIN 125	17
116	Spring washer	51233		d=16 D=28,2
117	Edge protector	19546		
118	Edge protector	19547		
119	Hex head cap screw	53103	DIN 7380	M8x20
120	Self-locking hex nut	51607	DIN 985	M8
121	Motor circuit breaker	53969		230/400 V
121	Motor circuit breaker	50034		230 V
122	Hex head cap screw	51564	DIN 7985	M5x45
123	Self-locking hex nut	51605	DIN 985	M5
124	Main spring	51889	DIN 2097	1,6x15,4x89
125	Ring nut	53964	DIN 582	M6
126	Hose	19561		
127	Locating pin	53963	DIN 1472	5x24
128	Anti-tipping plate. left	21260		
129	Anti-tipping plate, right	21261		
130	Hex head cap screw	53101	DIN 7380	M10x25
131	Self-locking hex nut	51608	DIN 985	M10
132	Hand rest	18282		
133	Hex screw	51431	DIN 933	M6x20
134	Self-locking hex nut	51606	DIN 985	M6

# **16. EC STATEMENT OF COMPLIANCE**

to the EC Machine Directive No. 42/2006 and EMV (Low Voltage) Directive 108/2004

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 without manufacturer's written approval.

Machine type:	Hydraulic log splitter
Models:	<b>SM 300</b> 400V / 230 V
Production no.:	see model label
Applicable European Standards:	EC Machine Directive No. 42/2006 and following modifications and additions EC-Low voltage directive 108/2004 EC Low Voltage Directive LVD (68/93) 95/2006
Other harmonised Standardsand technical specifications for logging	
& splitting equipment:	EN 609-1 Log splitters (wedge) safety: DIN EN 55014-1 DIN EN 55014-2 DIN EN 50104 DIN EN 61000-3-2 DIN EN 61000-3-3

Official inspection Institute as per Annexure V of the Machine Directive:

Spitzenverband der landwirtschaftlichen Sozialversicherung Prüf-und Zertifizierungsstelle Weißensteinstraße 70-72 34131 Kassel

Person in charge of the tecnical documents: René Pareis (Management)

#### Südharzer Maschinenbau GmbH

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Nordhausen, 01.07.2016

Official user language: English

Date

René Pareis (Management)



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Form: 689.21.09.2010 - Rev. C Form: 694.21.09.2010 - Rev. C