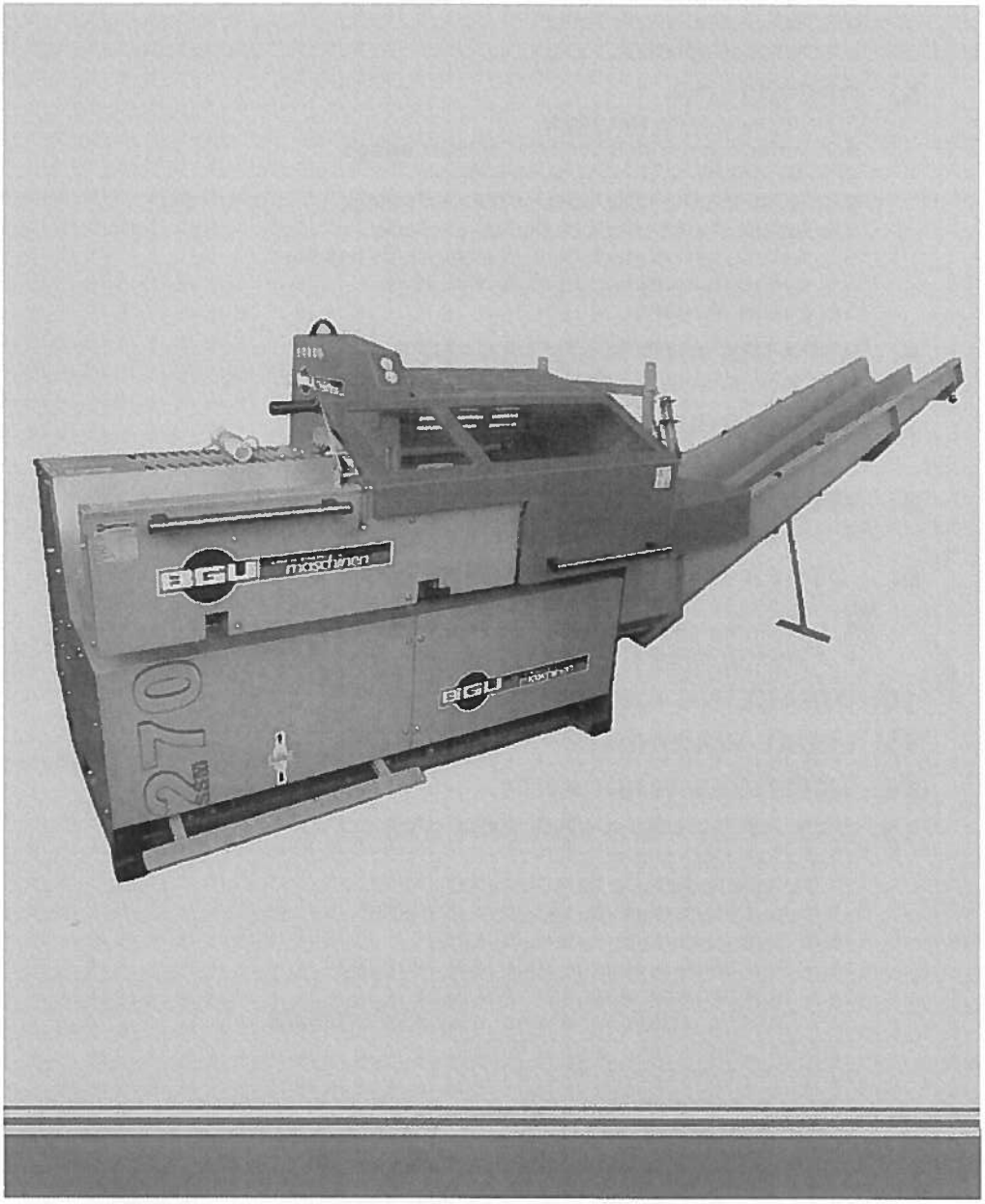
USER'S MANUAL

Carefully read these instructions before starting and using your machine!

Set-up & installation
Use
Maintenance
Accessories

SAW &LOG-SPLITTER COMBINATION SSM 270 EZ/Z

CE



we manufacture in Germany

TÜV International Certification
TÜV THÜRINGEN CERT
ISO 9001:2008
15 100 63645
TIC

BGU maschinen

Südharzer Maschinenbau GmbH
Helmestraße 94 · 99734 Nordhausen/Harz
Zentrale: ☎+49(0)3631/6297-0 · 🖷-111
Internet: www.bgu-maschinen.de
e-mail: info@bgu-maschinen.de

CONTENTS

1. INTRODUCTION

Dear customer, thank you very much for your trust and preference 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 ensure you a long lasting quality and performance.

1.1 About the manual

Please take time to read this manual and learn to how operate and maintain the equipment 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 "contents" page.The information, pictures and technical data in this document reflectcurrent 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 dealer or our Authorized Service Centre for service. When you order parts maintenance or repair services, your Authorized Service Centre, your dealer or eventually the manufacturer will need your machine serial number. These are the numbers that you have re-corded on the product identification label of the manufacturer on themachine

1.2 Delivery and transport claims

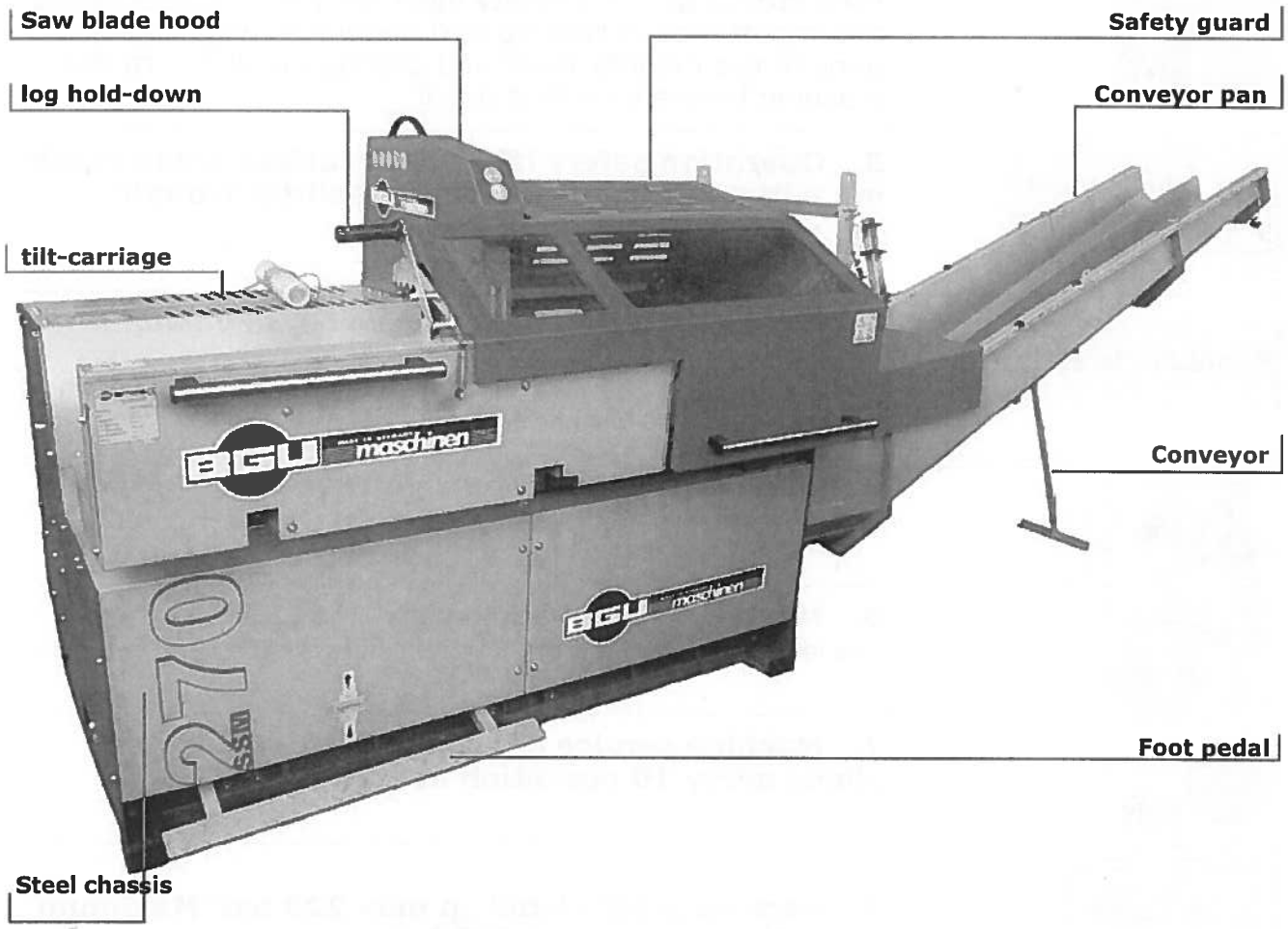
Upon delivery of the processor please check for visual machine damages such as broken packing or scratched buckled parts. If so, make a remark on all copies of the delivery bill before signing for acceptance.

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 of the machine and make sure to inform us (the manufacturer) immediately. No claims will 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 dys from de-livery. Therefore delivery must be collected and inspected within this term. Later claims will be disregarded. In case of assumed but not visually clear trans-

port 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. MACHINE OVERVIEW SSM 270 EZ



Please note: your machine may be different that it looks in the pictures in this handbook due to ongoing technical improvements

3. SAFETY PICTOGRAMS AND WARNING

1 Notice warning 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

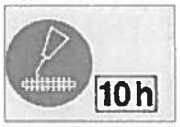
2. Safety label „read, understand, and follow all instructions in this manual and on the splitter before starting!" This safety label reminds the user about the importance of reading and understanding the instructions of the manufacturer and getting familiar with the machine before your first use it.

3. Operation safety label „be cautious when reaching with your hands inside the splitter trough""

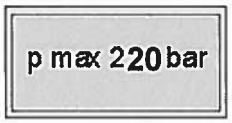
4. Operation safety label „beware, sawblade running"
The labels is used on the machine to identify a dangerous zone where you should keep your hands off

5. Operation safety label „pinched hands danger"
Keep your hands off all mving machine parts! Pinched hands danger. .

6. Machine safety label „max 420 rpM" "
This label shows the max admissible number of PTO shaft revolutions.



7. Machine service label „lubricate all guides/ slides every 10 operation hours!"'"



8. Machine safety label „p max 220 bar"Maximum operating pressure is 220 bar.

9. Machine operation label „Dipstick"
This label is used on the machine to identify the location of the cap over the dipstick to be used for checking the oil level.

10.Manufacturer logo„bGU-Maschinen - logo"

11.Identification label

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

12. Machine safety label „Moving parts! beware"

13. Operation safety label „Do not operate the machine indoors!"

Never run the machine inside a closed area. The exhaust fumes are toxic!

14. Personal protection pictogram "wear ear plugs and safety goggles"

15. Safety decal "wArninG! Always wear safety gloves"

16. Personal protection pictogram< wear suitable protective boots!

17. Personal protection sign „before operating read operator's manual and safety instructions!"

Read, understand, and follow all instructions in this manual before starting!

18.operation safety label read, understand, and follow all instructions in this manual before starting!

To avoid personal injury or death, carefully read and understand all instructions pertaining to the saw including the engine manufacturer's operating and maintenace instruction manual!"

19. Operation safety label „One man operation only"

This label reminds and warns users that this machine can be operated by one man at a time only.

4. SAFETY RULES

Strictly perform installation, set-up, maintenance, cleaning and transportation with the motor switched off and all moving parts firmly secured against accidental operation

The user shall strictly comply with these operation, set-up, maintenance, repair and trouble-shooting instructions in order to assure safe operation and avoid damages to the equipment. The owner must understand these instructions and must allow only persons who understand these instructions and are familiar with the related risks to operate the splitter.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 splitter can cause serious injury or death.

No person under school leaving age (18) should operate this log splitter. Those who have reached school leaving age but are below the age of 16 may operate a log splitter if supervised by a competent person of 18 years or over.

Make sure that all access ways are properly maintained so that wood can be safely delivered, loaded and shipped. The working area around the machine must be kept as clear as possible from surrounding obstacles. Slippery foundation floors should be dulytreated (do not use saw dust or wood ash for this purpose). Make sure that the equipment stands on a safe stable foundation.

- Damaged or buckled blades (very likely to break during operation) should not be used.
- Always wear protective gloves when changing the saw blade.
- Ensure that a wide but confined aea is available around the machine and assure maximum working freedom.
- Operators must wear personal protection safeties including steel toe safety shoes, snug-fitting, tear-resistant work cloths, work gloves, eye and hear protectors
- No additional customised protections or tools should be provided on board of the machine, other than the ones designed and supplied by the manufacturer.

• Do not apply pressure (for instance by means of a wood stock) against the blade to make it come to a quicker stop.
• NEVER leave the machine unattended without prior power disconnection.
• The machine is not designed for indoor use

4.1 Mandatory application feld

Firewood processors are one-man operation machines for outdoor use only. No second operator or bystanders are allowed on the machine while working. This saw and splitter combination „SSM 270 EZ/Z" is strictly conceived for cutting and splitting logs for firewood prepaation only. BEWARE: no cross-grain splitting is permitted. Always split grain-wise with the log firmly settled centally in the splitter trough. The manufacturer will consider any other use or application as "misuse", in which case the manufacturer will not be responsible for customers' claims or resulting damages.
The user shall strictly comply with these operation, set-up, maintenance, repair and trouble-shooting instructions in order to assure safe operation and avoid damages to the equipment.IMPORTANT: this unit has a log cutting and splitting capacity of max 270 mm diameter. The machine is capable to handle logs in a mini-mum and maximum length of respectively 200mm and 500mm. DO NOT PROCESS FIREWOOD OUTSIDE THIS RANGE.

Before starting, inspect the machine for evident, visible damages and check the tension of the v-belt and the oil level!

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

4.2 General information

This is a self-powered processor with self-contained sawing and splitting sections ensuring maximum efficiencin firewood productionThe log length is adjustable from 20 to 50 cm (0.80-19.6 in).The splitting wedge in the log splitter is adjustable up and down to match any chunk size and perform optimal splitting in just one go. Make sure to set the wedge to the right height based on chunk size. To do so, manually lift/ lower the wedge into the new desired position. This log processor combines a saw and a splitter unit together and is equipped with one inbuilt hydraulic system. If you are running a PTO version attach the machine to a tractor using a drive line. If your machine is powered by an electric motor, plug the motor to you house network for operation.

4.3 Saw blade, safety rules

The maximum design sawing capacity allows the cutting of logs up to 700 mm diameter (30 mm saw bore). Metal blades (cr) must be suitable to operate at maximum 3000 revolutions per minute. All saw blades must be certified to EN 847-1. Strictly use sharp blades that are free from any damage or flaw. Do not ever use worn out blades in need of sharpening. Make sure that the blade shows good conditions, no damages, no cracks, no buckling and no missing/broken teeth/bit Hard metal blades required accure care and maintenance. Make sure that the blade bits do not ever hit against hard surfaces (for example concrete floors), which might cause invisible bits damage. Hard metal blades must be suitable to operate at 2700 revolutions per minute and this maximum rated speed should not be exceeded

4.4 Machine safeties

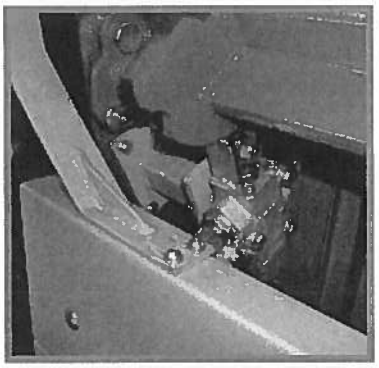


Fig. 1

A safety valve is installed on the machine to prevent accidental starting and operation if the safety guard is open (see fig.1).

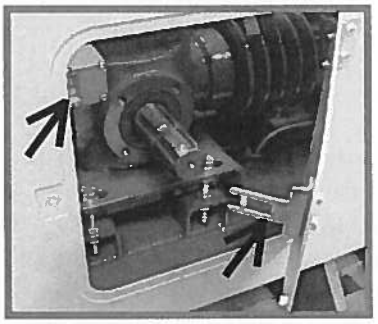
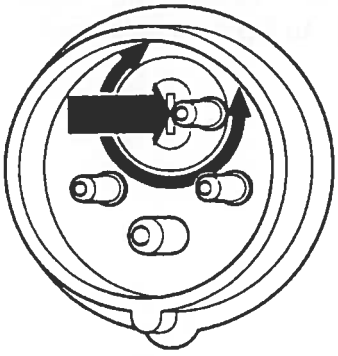


Fig. 2

Every time when you lift the rear left guard up, a safety switch is activated that stops further starting/operating of the machine(only electric versions). If the guard is lifted up while working, the machine will stop at once.This safety is also designed to prevent accidental contact with the PTO shaft when the machine is operated and powered from the electric motor.(see Fig. 2)

Do not alter, remove or bypass the original safeties of the manu facturer!

5. OPERATION



phase inverter

To set the unit ready for processing you firstneed some minor set-up work. The cut length of each log can be set by means of a special adjustable stop located on the right hand side. Strictly perform adjustment with the motor switched off and the blde/wedge firmly securedagainst accidental operation.The electric variant of this processor is equipped with electronic braking force control. The PTO version comes with own hydraulics for power take offfrom the tractor via drive line. the plug used for powering the electric versions must be ftted with a no-volt release switch designed for rated current up to 30 mA. A 32-A CE power outlet is required for the operation of the electric saw.Make sure to let the saw be wired and connected to power by a qualified electrician only. After switching the machine on (both for electric and PTO versions) make sure that the saw blade gradually starts turning in the right direction. You should check if the blade runs so that revolutions occur always towards the operator's station.Should rotation be performed in the opposite direction, immediately stop the machine and use a phase inverter (see Fig. "Phase inverter") to change the plugging polarity of the conductor cable).

Before starting the machine, fip the saw carriage open, however without unscrewing it!

Load your timber on the special carriage and advance it to the length stop while keeping it firmlyin position with the special hold-down. Now push the carriage smoothly to the blade. When doing so avoid all jerky, bumpy movements that could lead to risky and dangerous situations. Timber must lay on the carriage by the entire length and with no projecting end. Alternatively, even permanent damages may be caused to the machine and for which the manufacturer will take no liability.After the first logis cut offthe timber, the carriage will automatically swing down to start-position (wide opened). When the carriage is wide open, advance the remaining timber to the blade and start a new cycle. When the blade completes cutting, the log falls down in the splitter trough. At this point you can start the splitting process. To do so operate the foot pedal right underneath the carriage construction. Release pressure on the foot pedal immediately after splitting of the log, that is as soon as the push-block has reached agaist the wedge.At this point the push-block, slides back to start-position and the processor is ready for the next cycle.You can discontinue the splitting process at any time by simply releasing your foot pressure on the control pedal.

Be aware! immediately set the foot pedal free, as soon as the push-block has shifted all the way out (approx. 1-2 cm/ 0.39-0.70 in away from the wedge) and the hydraulic pressure starts running to tank. This will avoid unnecessarily overloading the hydraulic system. Under conditions of continuous operation the hydraulic temperature may rise up to 100°c with the consequent risk of severely damaging the hydraulic system!

5.1. Replacing the saw blade

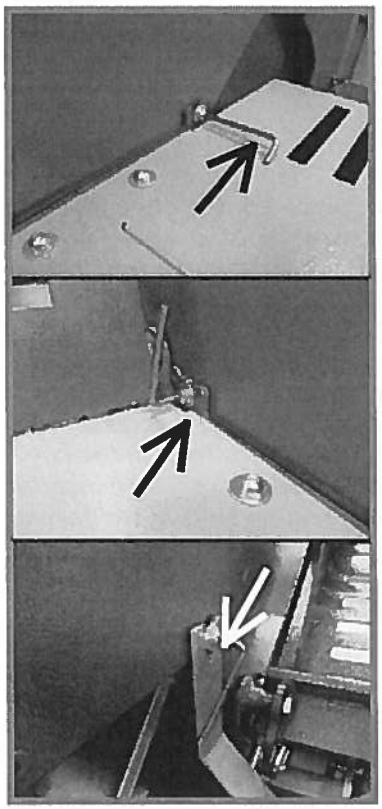


Fig. 3

Following instructions apply for safe and proper blade replacement:

Disconnect the machine from its power supply (stop and unplug the E-motor or switch the tractor off and detach it from the tactor), and wait for the blade to have come to a complete stop. Release the 3 head cap screws (M6 with hex socket, see Fig. 3) to flip the blade hood open. .

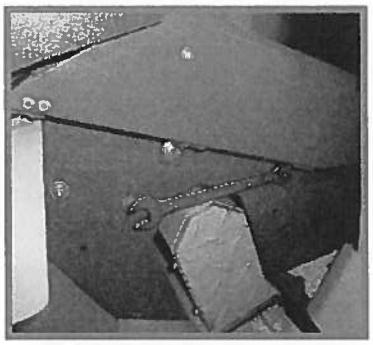


Fig. 4

Now remove the bottom blade casing (Fig. 4, 3x M8x25)

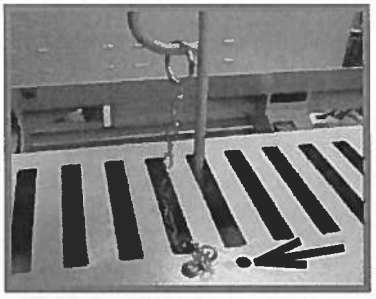


Fig. 5

Now remove the bottom blade casing (Fig. 4, 3x M8x25)

Follow the procedure here below to prevent the saw blade twisting and straining while you undo the hex nuts: Pull the hook out of its transport position and fit it into the special slotin the machine casing, into the saw shaft bore.

Now, manually let the blade revolve till the steel bar gets locked inside the hole in the blade shaft (Fig. 5)

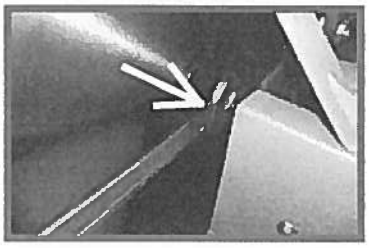


Fig. 6

Now, you can safely release the fixation nut located on the blade flange and then remove the entire flange assembl.

Now, take the blade flange off (Fig. 6) afinally remve the blade from the shaft too.

Always wear tear-resistant, safety gloves while handling any cutting tool. bewAre: pinched hands danger!. .

When assembling the new blade, make sure that the key holder is safely and duly seated (new blades must have a 30 mm bore).

CAUTION: fit the new blade in the right position. Make sure-that the blade runs so that revolutions occur always towards the operator's station.

Finally reassemble the blade flange and arious safeties and connections back in place on the blade shaft.

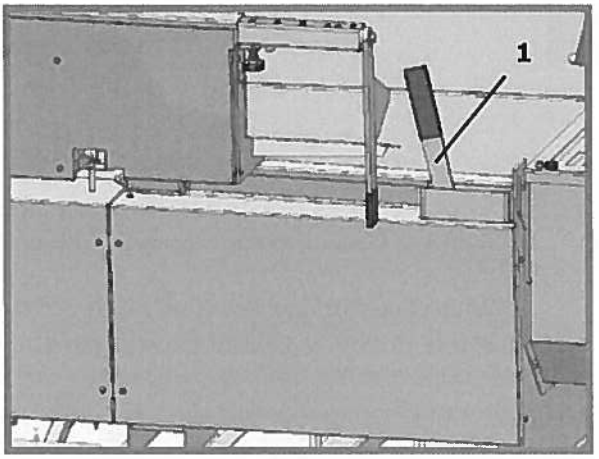
Take the hook retainer out of the upper part of the casing and fit it inthe special seating for the transport.Reassemble the upper blade hood, tighten all fixation screws and thenclose the upper protection guard.Now install the bottom blade casing back in place.

5.2 Adjusting the height of the splitter wedge

To change the setting of the splitter wedge usethe adjustment level (Pos. 1, Fig. 7).Pull the lever slightly to the front and push it to the right hand side as much as needed. When done, push it to the left until it snaps back into the locked position (Fig. 7).Activate the adjustment lever to the right to move the wedge up.Move the adjustment lever to the left to let the splitter wedge down.The splitter wedge can be securely caught into 5 different positionsCatch the wedge in the highest position if you need to cut the largest possible logs into four pieces. Set the wedge down into the lowest position to split the login two halves only.

Make sure that the adjustment lever is alwayssecured in one of the 5 special catches to avoid dangerous shifting of the wedge during splitting.

Fig. 7



5.3 tensioning and replacing the v-belt

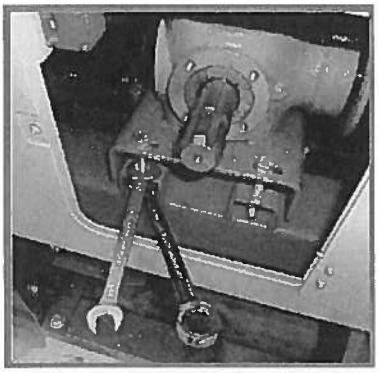


Fig. 8

To tension the belt:

To perform V-belt stretching simply adjust the adjustment screws located on mount of the gear case.To adjust the V-belt tension release the hex-nuts and adjust both screws, as required. (see Fig.8).

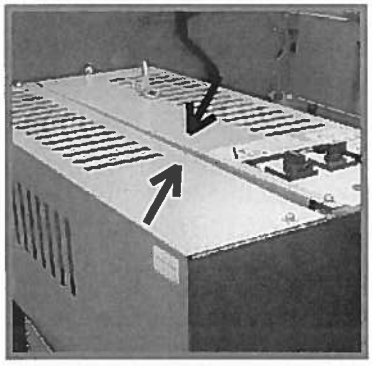


Fig. 9

To replace a worn-out belt:Dismount and remove the steel plate casings (Fig. 9) on the left side of the saw blade. Undo the twelve head cap screws (M6x25) used for fixation of the casings (6 screws per casing). Release the hex-nuts of each adjustment screw (Fig. 10) lift the gear case up and pull the belts offthe pulleys.

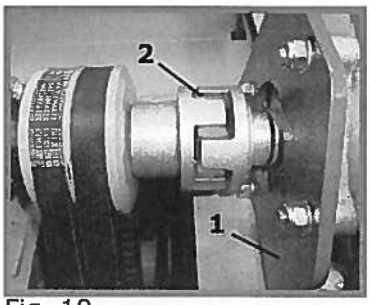


Fig. 10

Release the screws holding the pump bracket and remove pump and bracket assembly from the upper protector (pump and bracket must come off together). (see pos. 1, Fig.10).Remove the V-belt and fit a new one on the special pulleys. Securethe pump bracket (with the pump on it) back onto the upper protector making sure to provide approx. 2-3 mm gap between the two cou-pling halves. Also check that the coupling halves are perfectly lined up to each other.

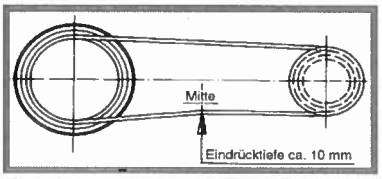


Fig.11

Tighten the hex-nut of each adjustment screw on the gear case and provide due stretching of the belts (a properly tensioned V-belt should provide approx. 10 mm sagging under a load pressure in the middle, See Fig. 11) .

5.4 replacing the slide pads of the push-block

Worn-out pads (sliding guides) in the push-block cannot be repaired they must be replaced.

Replacement is normally required after each 2500 hours of operation. Regular maintenance and greasing improves performance and increases pads life.

To perform replacement of the sliding pads, follow the procedure below:

- Operate the push-block to slide all the way out and lay it completely on the right hand side of the chassis partition plate.
- Switch the machine off (disconnec drive shaft from the PTO of the tractor or unplug the motor)
- Lift the upper protector up
- Release all fixaton screws and remove the casing over the push-block.
- Remove the front casing on the left
- Release lock-rings and remove piston fixation bolts on the front en of the push-block
- Muscle the push-block in toward the right hand side till the piston is no longer over the push-block.
- Release all 4 fixtion screws on the same side of the push-block and pull the sliding pads out.
- Remove the hex-nut holding worn-out pads and insert it in the new pads.

CAUTION: use the thick hex-nut in the top pad!

• Insert new pads and tighten the fiation screws (do not forget fiting a lock washer beneath head of each screw and eventually glue the screws with a medium strong Loctite

CAUTION: use the hex-screw for the top pad and the head cap screws with hex-recess for side and bottom pads!

• After having replaced the pads on one side repeat the same procedure to replace the ones on the other side of the push-block.
• After having completely replaced all sliding pads, reassemble all parts back into place.
• Shift the push-block back toward the piston, till the piston eyebolt reaches between the gusset plates of the push-block (make sure to line up the holes to perfect match).
• Insert the fixation bolts into the piston eye bolt through both gusset plates and secure the push-block to the hydraulic cylinder. Use lock rings to tighten the bolts against accidental releasing.
• Steel plate casing, front, left
• Mount the protector (casing) back on the push-block and secure it using the special fixation screw (eventually glue the screws with a medium strong Loctite
• Close the upper protector
• Perform connection of the machine to the power source

5.5 Setting the bearings of the log carriage

The log carriage on this machine is especially designed to assure safe end efficient feeding to the blade. The log carriage must be smooth - erating without any jerky or bumpy movements and it must perform an automatic return to start-position after through-cutting of the log is performed.

To adjust the bearings of the timber carriage, the following procedure applies. Linear horizontal bearings are set on eccentric locking collars. These bearings can be adjusted to a nearly zero gap between the rolling element and the raceways.The collars are used to achieve the side clearance to the guides. If required after every new setting, perform bearing adjustment to ensure smooth, trouble-free operation of the timber carriage.Vertical bearing assemblies are not housed on eccentric collars. They are used for longitudinal shifting toward the blade and do not need any readjustment.

5.6 Setting of the machine in the transport position

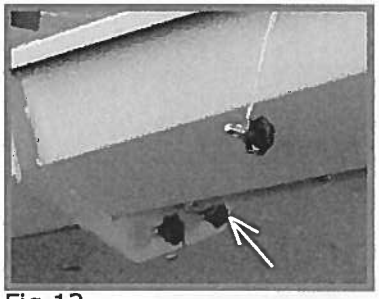


Fig.12

To prepare the machine for road transportation, you to lift up the conveyor pan. To do so, the following steps should be followed:

- Release the two upper star knob (Fig. 12) of the short (upper) chute

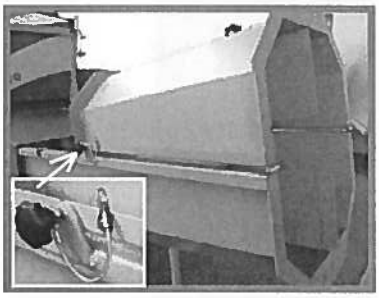


Fig. 13

- Lift the chute up and secure it to the eye bolts in the lower chute using the star knobs (Fig.13)

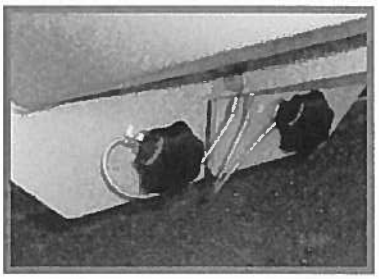
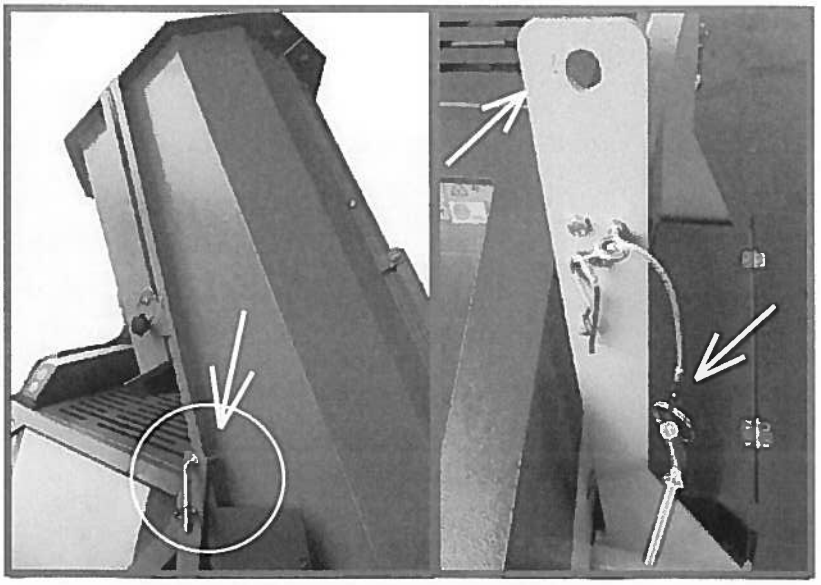


Fig. 14

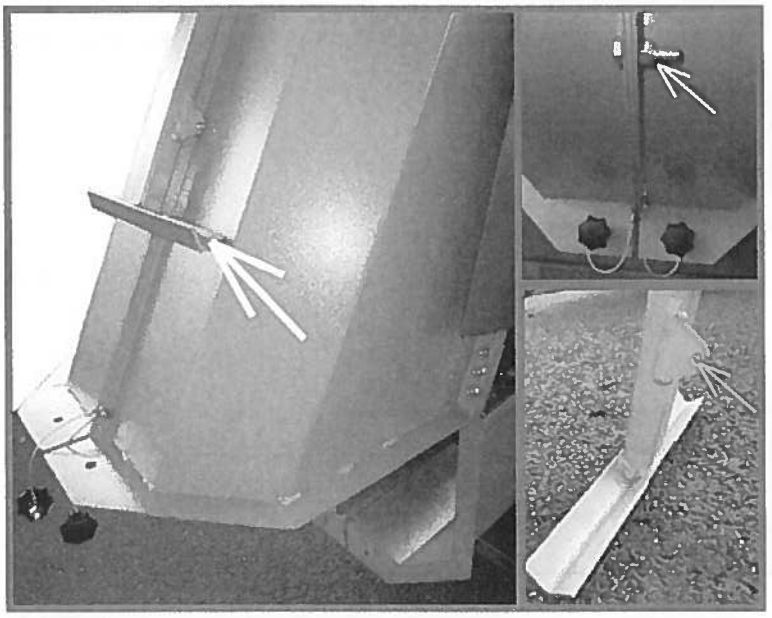
•Release the star knobs of the lower chute (Fig. 14) and slide the retracted conveyor pan to the top (Fig.15), secure with the bolts and hairpin cotters supplied with the machine (Fig. 15 on the right).

Fig.15



• Underneath the conveyor pan there is the conveyor stand. Fit it to the conveyor and engage the eye bolts (Fig.16 on the bottom right) at the special screws provided for this purpose under the conveyor pan (Fig. 16 top, right hand side)..

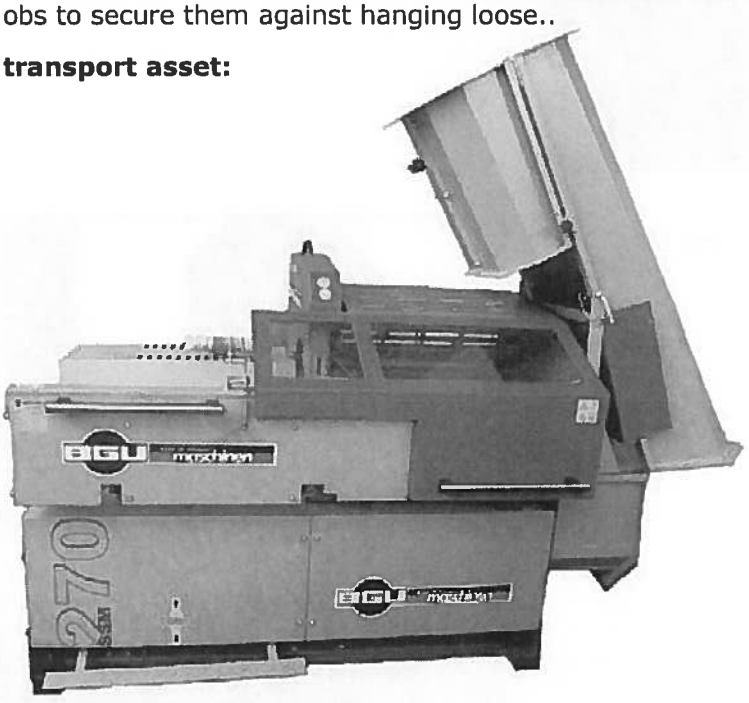
Fig.16



• Check the status of all safeties to make sure that no hazard can occur to the machine, materials, and people on site. Tighten all star knobs to secure them against hanging loose..

Fig.17

transport asset:



If you need to set the machine back into working position, repeat the same procedure in the opposite sequence.

5.7 connection/disconnection to pto drive

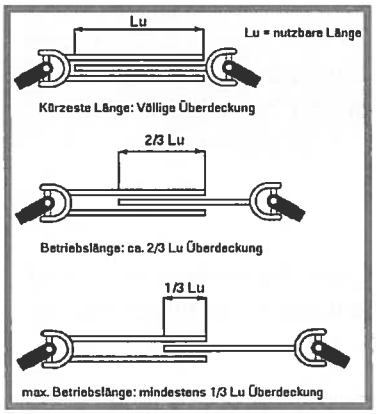


Fig. 8

The tube profiles should verlap each other by at least 1/3 of the over-all length (see picture 18).Before uncoupling the processor, make sure to stop the tractor engine in order to avoid damaging the blade shaft!

5.8 Trouble-shooting

In the event of any anomaly, immediately disconnect the machine from its power supply.

For any electric malfunction, make sure to ask a licensed electrician in your area.A skilled licensed electrician must be asked for any re-pair of the elec-tric system. (see section 4 of the safety instructions in this hand-book).For mechanical or general technical problems, contact any BGU dealer or the Technical Service of Südharzer Maschinenbau GmbH.

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.

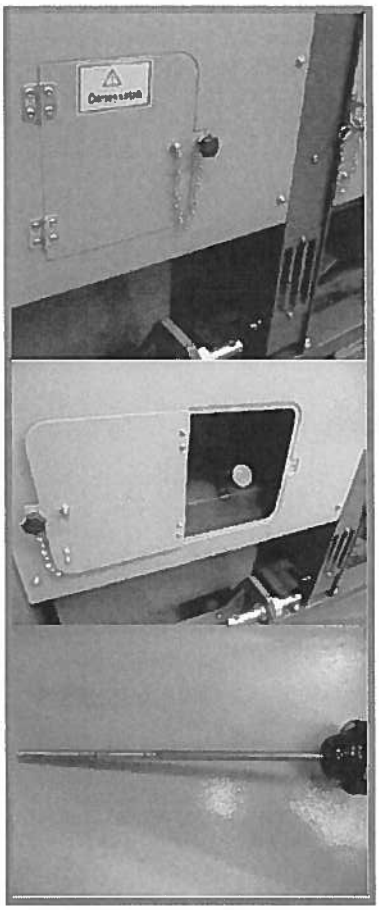


Fig.19

Regular maintenance

• Check the hydraulic oil level (check the hydraulic system in case of oil leakage). Open the cap and pull the dipstick out to check the level (Fig. 19).

•Check the V-belt and stretch it if needed (See section 5.3 of this handbook "Tensioning and replacing the V-belt")

• Grease the sliding pads of the push-block (Fig. 20)
• Provide regular cleaning of the splitter trough where the push-block slides and remove chips and dust. Excessive residual matters in this area may cause functional troubles when they get pressed down into the trough where the push-block slides (the ram can no longer slide).
• Check sharpness of the cutting tools (blade and wedge)
• Lubrication of all moving parts.

Once a year or every 50 operation hours

Saw shaft, bearing assembly is self-lubricating

Hydraulic oil change:

☐ Oil capacity approx. 15 l
• Oil: HLP 46

Gears oil change:

☐ Oil capacity approx. 0.4 l
• Oil: Any oil with viscosity class CLP/CC 150 (ISO150) (SAE 90)

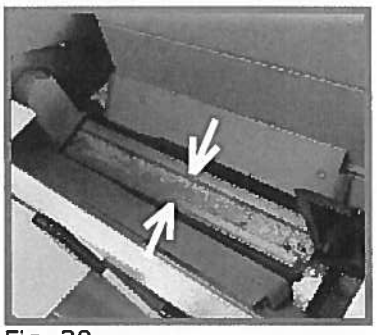


Fig. 20

6.1 Consumables

Consumables are parts and components that are subject to normal wear. These are excluded from the warranty.

- Circular saw blade (Code No.52572)
- Rubber flap (Code N.28812)
- Rubber pads (upper) Code No .28719
- ☐ V-belts (Code No.54591)
- Wooden inserts (Code No .56881, 56880)
- Chip guard for saw blade (Code no. 29030)

Couplings, springs and seals are consumable parts.

7. TRANSPORTING THE MACHINE

If transporting by attachment to a three-point hitch on a tractor, make sure to provide suitable front ballast for increased steering performance.

All moving parts of the machine must be duly secured for proper transportation. To do this, first secure the log carrige by firmly locking thelength gauge against the rear plate of the chassis. Release the black indexing knob on the length stop, push the timber carriage all the way down and tip the length stop up so that it can be snapped into the lifting hook located on the upper side of the rear cover plate (of the conveyor pan). Shift the length stop to the left and screw the black indexing knob to secure it in place.

Transporting on public roads requires attachment to a three-point hitch on a tractor (or other equivalent vehicles). For short-distance handling operations, use a fork-lift inserting the forks into the special steel lugs.

7.1 Transporting the machine on a three-point linkage

Attach the machine to a 3-point hitch (Cat. 1 or 2) of a tractor (or another equivalent vehicle), and comply with the following instructions. Should the dimensions of the machine hide any of the travel signs and illumination systems on board of your tractor (rear/head lights, rear travel lights, stop lights, turn indicators etc...), you must provide for the same signs and lights on the machine is order to travel on public roads. The same applies for eventual other tools and ancillary equipment in-fringing the tractor profile y 1 meter in the back and by 40 cm on the sides. In this latter case side lights must be provided in the front. Make sure to apply suitable warning sings (white/red) as per DIN Standards 11300 to warn about protruding obstacles likely to endan-ger the nearby traffiFor more updated information please consult StVO. If transporting by attachment to a three-point hitch of a farming trac-tor, make sure to provide suitable front ballast for increased steering performance, if required in accordance with the tractor load chart.Do not exceed the max transportation speed of 30 km/h.

8. TECHNICAL SPECIFICATIONS

Technical Specification	Unit of measurement	SSM 270 Z compakt	SSM 270 EZ
Length:	mm	2280	2334
Width	mm	1310	1310
Height	mm	1440	1440
Power requirements	kW (PS)	12 (16)	12 (16)
Motor power P1	kW	-	7,5
Number of rev.	U/min	-	1420
Rated voltage	V	-	400
Saw blade diameter	mm	700/30	700/30
Saw blade, max. cutting capacity	mm	270	270
aw blade, min cutting diameter	mm	80	80
Max operating pressure	bar	220	220
Max number of driveshaft rev.	U/min	420	420
Length of cut	mm	250 - 500	250 - 500
Weight	kg	ca.570	ca.670

8.1 Noise 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. The detected noise level was:

Measurement on the machine front edge at 1600 mm height and 400mm away from the blade on the right hand side, while processing beech wood in the size of 80+/-5% of the admissible diameter (270 mm) as per instruction book.Detected noise level:

No load : 90 db(A) Max load: 94 db(A)

when working with bGU wood processor, use ears protectors!

9. OTHER AREAS OF POSSIBLE DANGER

9.1 Mechanical dangers

Possible dangers related to machine moving parts (for example sa blade and v-belts) are minimized by means of suitable safeties and protections that cannot be dismounted unless special tools and equipment are used. Danger: Removing or by-passing inbuilt machine safeties may result into se-rious operator's personal injuries.

9.2 environmental dangers (wood dust)

The machine is strictly designed for outdoor applications.Danger: Do not ope-rate the machine indoors to avoid risk of inhaling wood dust.

9.3 electric dangers

All machine parts staying under voltage are duly insulated or sealed in-side a fied casing to avoid accidental contact. For safety reasons all fied casings can be only removed using special tools and equipment.
Danger: Removing a fixed protection casing when the machineis running or without having priory cut the power off, may resultin-to major danger of electrical shock!.

10. DISABLING AND SCRAPPING

When the splitter is fully obsolete and cannot be of any longer use, it should be duly dismounted ahead of discarding. Certain components need deactiva-tion 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 be-long to differentiatedwaste collection procedures applicable in your coun-try. 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 and eventual re-use in other applications differentthan originally stated in this manual.

Dismantling procedure:

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

- Lock all moving parts of the mill and pull the machine down into sin-gle components
- Deliver each single component only to authorized waste manage ment fa-cilities
- Remove rubber and plastic parts from the machine that must be sep-ara-tely disposed of.Deactivated, clamped moving/driving parts and components are of no further risk and danger.

11. LEGAL WARRANTY

The deck is 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 re-ceipt. The warranty does not cover for faults due to natural wear, tem-perature or weather agents as well as misuse, faulty installation or set-up, improper operations and lubrication or act 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 as mentioned in this manual, altered or modified y the customer or other thirds, or overloaded.

No warranty applies to consumable parts (for instance: V-belts, blades, tools, and other implements) and to adjustment/calibration works.

12. EXTENDED WARRANTY

All SŰMA consumer products are covered with 24 or 12 months total warranty from the date of purchase for private/industrial users and rentals. This warranty extension 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 to-tal warranty time, shallbe repaired notwithstanding eventual user's faulty/ wrong operation or maintenance.

14. EC STATEMENT OF COMPLIANCE

ito EC Machines Directive No. 42/2006, Annex IIA 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 manufa-.

Machine type: : **combination saw & splitter processor**
Models: **SSM 270 eZ and SSM 270 Z**

Production number no.: valid from 2158 11 1 SSM 270 EZ
from 2159 11 1 SSM 270 Z

Applicable European Standards - EC Machine Directive: EC Machine Directive No. EC 2006/42

and following additions and modification
Low Voltage Directive (LVD) 2006/95/EC, EC-EMC Directive 2004/108O

ther applicable Standards and specifications EN 349 Safety distance to avoid crushing parts of the human body

EN 60204-1 Electrical machine equipment
EN ISO 4254-1 General requirements for farming machines
EN ISO 4413 Hydraulics - General Rules and Technical Safety Requirements for hydraulic equipment and their components
EN 12100 General principles for design
EN ISO 13857 Safety of machinery.

Official inspection Institute as per Annex VI of the Machine Directe: Test and Certification ody der landwirtschaftlichen Sozialversicherung Weißensteinstraße 70-72 34131 Kassel
Homologation Number 2157

Südharzer Maschinenbau GmbH
Helmestraße 94 · 99734 Nordhausen/Harz
Service-Tel. 03631/6297-104 · Fax 03631/6297-111
Internet: www.bgu-maschinen.de
e-mail: info@bgu-maschinen.de

Nordhausen, den 03.02.2012
Date

Jörg Kernstock (Management)

Official User's Language: English

(User's Copy)

Südharzer Maschinenbau GmbH
Helmestraße 94 · 99734 Nordhausen/Harz
Service-Tel. 03631/6297-104 · Fax 03631/6297-111
Internet: www.bgu-maschinen.de
e-mail: info@bgu-maschinen.de

Änderungen vorbehalten

Form 2158.12.05.2014 - Rev.B
Form:2159.12.05.2014 - Rev.B