USER'S MANUAL

Carefully read these instructions
before starting and using your saw!

Set-up
& installation
Use
Maintenance
Accessories

LOG CUTTING SAW
WK 790 R -2

CE

Made in
Germany

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

BGU maschinen

Südharzer Maschinenbau GmbH
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Zentrale: ☎03631/6297-0 · 🖷-111
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CONTENT

1. GENERAL INFORMATION

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.

This log cutting saw is available in the following variants:

WK 790 R-2 with belt drive

1.1 About this manual

Please take time to read this manual and learn to how operate and maintain the saw safely.

For your easier reading this manual is laid out in several sections. The sections are progressively numbered 1 through 14 and listed on the "content" page.

The information, pictures and technical data in this document reflect current or planned product features, functions, and characteristics as of the publication date. Because of on-going product improvements and feature additions, information in this document is subject to change without notice.

If you are experiencing a problem or functional trouble on your machine, please read the "trouble-shooting" section to identify possible causes and remedies. 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 (including your own) of the delivery bill before signing for acceptance.
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 understanding in this matter.

2. PRODUCT OVERVIEW

2.1 Log cutting saw with tilt-cradle and electric motor

3. SAFETY PICTOGRAMS AND WARNING LABELS

1. Warning label
„Do not operate the machine indoors!"
Never run the machine inside a closed area.
Exhaust fumes are toxic!

2. Safety pictogram
„Wear ear plugs and goggles!"
Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as ear plugs and safety goggles.

3. Safety pictogram
„Direction arrow"
Motor, PTO shaft and driveline must be turning in the same direction as shown by this arrow.

4. Safety-alert symbol
Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

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

6. "BGU-maschinen" Manufacturer's logo.

7. Personal protection sign
„Mind these instructions!"

8. Personal protection sign
„Before operating read operator‘s manual and safety instructions!“
To avoid personal injury or death, carefully read and understand all instructions pertaining to the saw including the engine manufacturer’s operating and main tenace instruction manual.

9. Machine safety label
"Wear suitable protective boots!"

10. Machine safety label
"Wear suitable protective gloves!"

11. Operation safety label
„Before setting-up, servicing, maintaining and cleaning the machine, disengage all power and stop the engine.“
This label warns users to first disconnect power and wait till all moving parts have come to a complete stop before starting to clean or maintain the machine. MIND THE SAW BLADE, WHILE OPERATING!

12. Operation safety label
Read, understand, and follow all instructions in this manual and on the saw before starting! Always keep at safe distance from moving parts.

4. SAFETY

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 16 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 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.

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. Allow no bystanders, especially children and pets in the working area.

- Due and proper illumination of the working site must be provided at all times.
- The saw blade must be duly sharpened for maximum performance- and no recoil danger. Flash and chips must be removed off the crown wheel.
- Damaged or buckled blades (very likely to break during operation) should not be used.
- A skilled licensed electrician must be asked for any repair of the electric system.
- Always wear suitable hearing (ear plugs or muffs) and eye protec tion (goggles or safety glasses) while operating the machine.
- Ensure that a wide but confined area is available around the machine and assure maximum working freedom.
- Operators must wear steel toe safety shoes and snug-fitting tear-resistant work cloths.

- 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 the wood stock) against the blade to make it come to a quicker stop.
- The machine is not designed for indoor use (dust release).
- NEVER leave the machine unattended with the running motor.
- Before leaving the operator's station for any reason, stop the machine motor, disconnect power and secure the machine against accidental operation.

4.1 Safety rules about saw blade

The unit is strictly designed for use with a 750mm (outer diameter) blade.
Strictly use blades as per EN Standard 847-1.

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/bits.

Hard metal blades require special care and handling. 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 1800 revolutions per minute.

4.2 Mandatory application field

These log-cutting saws are strictly designed for preparation of firewood. All other applications are forbidden and considered as "misuse". The manufacturer is not liable for any damage or injury resulting from misuse!
The machine is capable to handle wood stocks in diameter of 8 - 30 cm. Shrubs and tiny branches bundles must be loaded on the trough and securely hold on both sides of the blade.

The machine is strictly conceived for ONE-MAN OPERATION ONLY.
Check the tension of the V-belt before first use and after the first 20 operation hours.

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. OPERATING INSTRUCTIONS

This log-cutting saw model WK 790 R-2 is specifically recommended for stationary use in your yard.
A rugged all-steel construction assures longest machine life at any operative condition.

This machine is specially designed to work with a 750 mm blade approved and manufactured to EN 847-1.

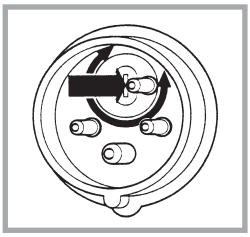


Fig. „Phase changer"

This version can be powered by its powerful electric motor with inbuilt braking provisions or alternatively from the tractor by means of a cardan shaft. Operating this electric version requires use of an EC 32 Amp socket and neutral conductor grounding system. Always have a skilled electrician connect the saw to the local power network. When you switch the machine on make sure to check that the blade is mounted to rotate in the proper direction before cutting any material. The tool must rotate against the operator, that is upwards towards the operator. If not, immediately switch the polarity in the plug of main power cord using a phase changer. If you don't feel familiar with phase changing ask a licensed electrician to reset the saw cord.

Now fasten the grip on the log carriage and push to **smoothly** tilt it over towards and through the blade.

If you working with twisted or crooked logs make sure to load the log on the carriage, so that the bolged or canted side of the log is turned to the blade in order to avoid the log from tipping over or jamming during cutting and consequent possible even major damages to the blade.

Now fasten the grip on the log carriage and push to smoothly tilt it over towards and through the blade.

NOTE: avoid excessive pressure on the carriage through the blade while cutting. Excessive hold-down pressure may slow the blade down and cause dangerous jamming!

When doing so avoid all jerky, bumpy movements that could lead to risky and dangerous situations. Timber in maximum length of 1.1 m must lay on the trough by the entire length with no projecting end. After the first log is cut off the timber, let the carriage swing down to start-position (wide opened) before advancing the remaining timber to the blade and starting a new sawing cycle. If you try to feed the stock forward and cut before the trough reaches back to start position, you may run the risk of hitting the stock against the blade guard consequently causing severe personal injuries and machine damages for which the manufacturer carries no liability.

The WK790 R-2 model is provided with an inbuilt electronic braking arrangement permitting the blade to come to a complete stop within a max lag-time of 10 seconds after switching the motor off. Generation of a humming noise after the blade has come to a complete stop is fully normal and due to trouble-less motor operation. Restarting during braking is not possible. Wait approximately 1 minute before restarting the machine after it was switched off. The machine is designed for a max number of 10 ON/OFF cycles per hour to avoid damages to electronic braking system.

DO NOT OPERATE THE MACHINE if the electronic braking system is out of order.

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.

„Radial thrust bearings are to compensate the unavoidable production-related range of tolerance. Lubrication of radial thrust bearings is NOT required, as the thrust function is only used once at the time of assembly, which means that the existing lubricant film will remain on."

6.1 Ordinary maintenance

The following tasks belong to ordinary maintenance works:

- Clean the machine from eventual residual wood, chips or dirt.
- Lubricate all moving parts.
- Grease all pivoting parts of the log carriage

6.2 Cleaning after use

Remove wood chips and saw dust produced and left on the machine during work. Clean the log carriage assembly removing all wood rests.

6.3 Replacing the saw blade

Safety note ! Wear safety gloves - pinched hands danger.

Before replacing the blade make sure to disconnect the machine from power (unplug the electric motor).

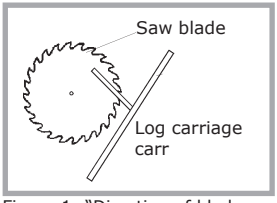


Figure 1: "Direction of blade rotation"

Following instructions apply for safe and proper blade replacement:

- Disconnect power off the machine (unplug power cord) and wait for the blade to come to a complete stop
- Unscrew and remove the upper blade hood
- Release and undo the fixation bolt on the blade clamping flange using a spanner to secure the blade flange on the motor side as you undo the nut
- Remove the clamping flange
- Pull the old blade off the shaft (make sure to wear tear-resistant gloves. DANGER!)
- Fit the new blade on the shaft. Note direction of rotation. (see Fig. 1)

- Mount the locking flange back on the blade shaft minding the right position of the feather-key in the flange.
- Tighten the shaft nut to hold the flange securely in place! ATTENTI-ON to assemble the new blace follow the sequence: blade, external clamping flange, washer, fixation bolt.
- Refit the blade hood in the original position duly set and clamped.

Periodically check the quality of the saw cut. Make sure to have your blade resharpened at the first sign of wear. Strictly have your blade resharpened by a skilled grinding service.

6.4 Tensioning and replacing the V-belt

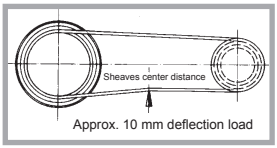


Fig. 2 - Tensioning of the V-belt

If you are operating a WK790 R-2, proper maintenance requires re-tensioning of the belt after a certain number of operation hours.
To perform stretching of the V-belt, you need adjusting the special screw after removig the v-belt cover and releasing the motor fixation mount.
Adjust the V-belt so that you can still provoke an approx. 10 mm of deflection by applying one finger tip pressure (see figure 2 - Stret-ching a V-belt).
Refit the belt casing and the motor mount back in place before opera-ting the machine again.
Running the saw with a loose V-belt will cause increased wear and shorten you belt life.
To replace the belt release the clamp-screws and remove the safety guard from the V-belt drive area. Remove the old belts from the shea-ves and fit the new ones on.
Make sure to refit the V-belt casing back in place before operating the machine again.

6.5 Blade shaft bearings

If you are using a „WK 790 R-2" model, you should be aware that alt-hough the saw blade bearings are self-lubricating one, a certain ex-tent of lubrication is still required.
To lubricate the bearings remove the guard on blade shaft. To do so, release all 4 hex screw M6 and lift the guard up. Use a regular grea-sing gun to perform bearings lubrication. Make sure to refit both cover plates before working again.

6.6 Consumables

The machine is equipped with the following consumable parts for which no warranty is given!

Circular saw blade (Part no. 95076 CR) ,(Part no. 95021 HM)
Wood strips (left:Part no. 56244, right: Part no. 56243)
V-belt (Part no.55127)

7. TRANSPORT

Log & timber cutting saws are light equipment that can be easily moved on short-distance by means of two caster wheels and an ergonomic, comfortable grip handle located on the chassis on the opposite side as the log carriage. In order to avoid infringement of the clearance area around the machine, the grip handle is retractable (push/pull) on the model WK 790 R-2.
Simply fasten the grip and lift the saw for safe and rapid hauling of the machine. For safety reasons the grip handle should remain retracted (or lifted-up) during work to avoid risk of tripping or entanglement.

8. DISMOUNTING AND DISCARDING AN OBSOLETE MACHINE

When the machine 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 and 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
- Remove rubber and plastic parts from the machine that must be separately disposed

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

9. TECHNICAL SPECIFICATIONS

Technical specifications		WK 790 R-2
Max. timber diameter	mm	300
Saw blade diameter	mm	750/30
Motor power P1 S6 40% ED	kW	9
Voltage U	V	400
Power supply I	A	11,5
Speed	rpm	1480
Frequency	Hz	50
Power cord cross-section	mm2	2,5
Short circuit protection of the power net	A	35
Domestic overload safety		No-volt release switch
Dimensions with open carriage (start position)		
Length	mm	1120
Width	mm	820
Height	mm	1170
Weight	kg	approx. 225

Fig. 3 „Log clamp"

A log clamp (Part nr. 91274) is available **as an optional on request only**. This can be used to ensure a safer and firm holding of the log against the blade!

9.1 Noise emissions

The noise level was measured in compliance with the general rules for establishment of noise and acoustic pollution of garden and agricultural equipment on work sites as well as with other national standards for noise measurement. The applicable measuring parameters were: 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 timber diameter as per this instruction book.

Idle	86 db(A)
Max speed	89 db(A)

Hearing protection is mandatory!

The above mentioned values are emission measurements and may not be therefore assumed as for a safe work environment. Although there is a relationship between noise emission and immission levels, this is

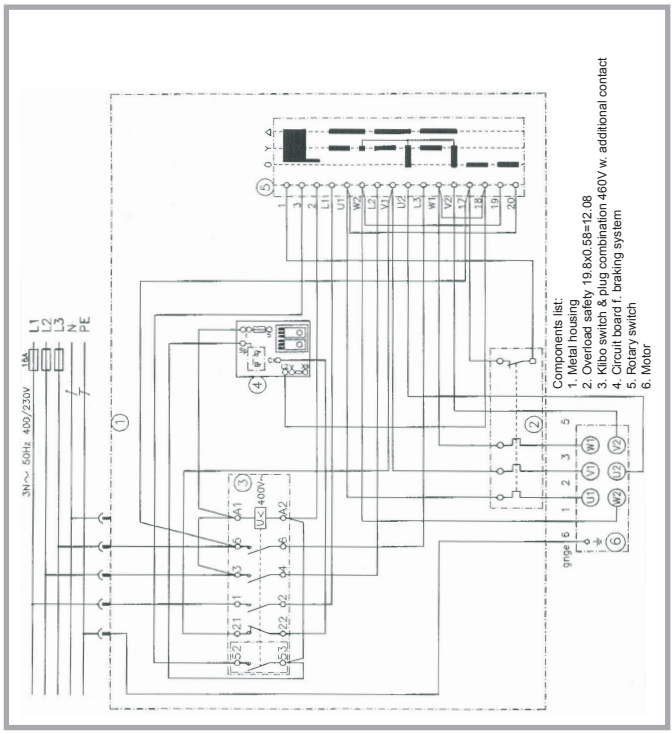
not a sufficient basis to determine the extent of on-site required protection. There are a lot of other factors that can influence site work and risk of injuries and namely: the actual site/buildings configuration, the concomitant presence of other noise sources (for instance other machines performing other works in the neighbourhood) etc... The factors applied for determining safety of a workplace may also very from one country to the other. We are reporting here the noise values detected in the facility of the manufacturer on order to allow the user performing a better evaluation of the possible risk/disturbance .

9.2 Electrical deployment system

As for all electric tools and equipment we strongly recommend use of 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.

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

Fig. 3
Wiring diagram
WK 790 R-2



10. TROUBLE-SHOOTING CHART

The following section will detail procedures for checking your saw, should you encounter a malfunction. Before setting, operating, cleaning, maintaining or repairing the processor, read the manufacturer's operating and maintenance instruction manual.

Type of trouble	Possible causes	Remedies
The saw doesn't start	- Power supply is missing - Faulty switch/plug	- Connect to power supply - Replace switch/plug
The machine starts but the blade does not run.	- Locking flange of the blade shaft is not tight - V-belt slips	- Tighten both the screw and the nut - Tension the V-belt
Blade runs but in the wrong direction	- Inverted phases	- Change the polarity in the line phase changer or in the switch
The blade keeps chopping the log	- Stump blade	- Sharpen or replace the blade
Buzzing motor	- Braking system is engaged	- Stop the saw and switch it on again after approximately 1 min.

11. OTHER AREA OF POSSIBLE HAZARD

11.1 Mechanical dangers

Possible dangers related to machine moving parts (saw blade) are minimized by means of suitable safeties and protections that cannot be dismounted unless special tools and equipment are used.
Do not attempt to remove or by-pass any of the machine inbuilt safeties.

DANGER: removing or by-passing inbuilt machine safeties may result into serious operator's personal injuries.

11.2 Electrical dangers

All live electrical parts are duly grounded and isolated to prevent accidental contact and danger of electric shocks. Do not ever attempt to remove or by-pass any of the inbuilt electric safeties, linings and protections.

DANGER: removing an electrical safety or protection lining may result into serious injuries caused by electric shock.

11.3 Environmental dangers

The machine is strictly designed for outdoor applications.

DANGER: do not operate the machine indoors to avoid risk of inhaling wood dust.

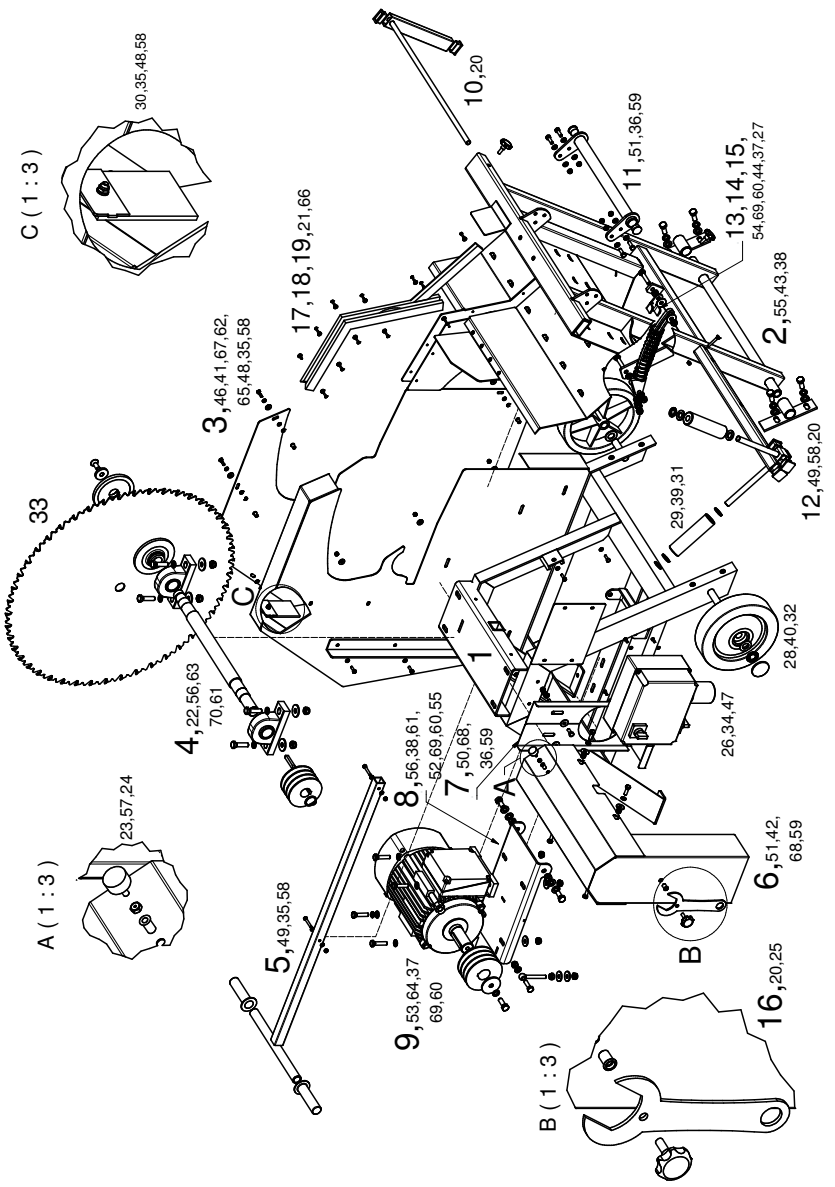
12. WARRANTY

All BGU 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.

13. WK 790 R-2, SPARE PART LIST



Pos.	Description (WK 790 R-2)	Part Nr.	DIN	Dimensions
1	Steel stand assembly	27061		
2	Log carriage assembly	27103		
3	Upper blade hood assembly	27118		
4	Blade shaft assembly	27121		
5	Grip handle assembly	27125		
6	Blade shaft guard, complete assembly	27128		
7	V-belt cover, complete assembly	27133		
8	Motor plate, complete assembly	27137		
9	Motor	27140		
10	Log stop, complete assembly	27095		
11	Grip handle on log carriage	27091		
12	Log carriage extension	27096		
13	Locking plate f. log carriage	27141		
14	Stop	27142		
15	Stop f. log carriage	27143		
16	Open-end spanner SW 48	22957		
17	Wood strip, left	56534		
18	Wood strip, right	56535		
19	Wood strip, bottom right	56536		
20	Star knob	51006		M8x20
21	Rosette washer	54507		10x3
22	Pedestal bearing	50712		
23	Rubber metall shock absorber	53906		D25 H10 M6x18
24	Blind rivet nut	51618		
25	Blind rivet nut	51983		
26	Holder f. motor safety switch	54290		
27	Compression spring	54656		3,6x36,4x187
28	Wheels	53280		
29	Roller	27097		
30	Chip protector	27117		
31	Spring washer	51233		D16
32	Spring washer	51234		D20
33	Saw blade 750 (HM)	90076		
34	Washer	51646	DIN 125-1 AA	5,3

Pos.	Description (WK790 R-2)	Part Nr.	DIN	Dimensions
35	Washer	51647	DIN 125-1 AA	6,4
36	Washer	51648	DIN 125-1 AA	8,4
37	Washer	51649	DIN 125-1 AA	10,5
38	Washer	51650	DIN 125-1 AA	13
39	Washer	51652	DIN 125-1 AA	17
40	Washer	51654	DIN 125-1 AA	21
41	Spring washer	51705	DIN 127	A6
42	Spring washer	51706	DIN 127	A8
43	Spring washer	51708	DIN 127	A12
44	Eye-bolt	54436	DIN 444	M10x60
45	Eye-bolt	56157	DIN 444	M10x80
46	Hex screw (Savetix)	56377	DIN 933	M6x20
47	Hex screw	51417	DIN 933	M5x12
48	Hex screw	51431	DIN 933	M6x20
49	Hex screw	51435	DIN 933	M6x40
50	Hex screw	51444	DIN 933	M8x20
51	Hex screw	51446	DIN 933	M8x25
52	Hex screw	51464	DIN 933	M10x35
53	Hex screw	51466	DIN 933	M10x45
54	Hex screw	51467	DIN 933	M10x50
55	Hex screw	51478	DIN 933	M12x30
56	Hex screw	51481	DIN 933	M12x45
57	Hex nut	51591	DIN 934	M6
58	Self-locking hex nut	51606	DIN 985	M6
59	Self-locking hex nut	51607	DIN 985	M8
60	Self-locking hex nut	51608	DIN 985	M10
61	Self-locking hex nut	51609	DIN 985	M12
62	Retainer	56533	DIN 988	6x12x0,5
63	Washer	56289	DIN 1440	12
64	External fine tooth lock washer	51690	DIN 6797 AA	10,5
65	Lock washer	56385	DIN 6799	5
66	Cross recessed head screw	54395	DIN 7997	4x16
67	Washer	51696	DIN 9021	6,4
68	Washer	51697	DIN 9021	8,4
69	Washer	51698	DIN 9021	10,5
70	Washer	51699	DIN 9021	13
71	V-belt	55127	DIN 2215	35 17x903 li

14. CE – STATEMENT OF COMPLIANCE

with the CEE Machines 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 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 cutting saw**
Models:	**WK 790 R -2**
Production Nr.:	see model label
Applicable European Standards:	EEC Machine Directive Nr. 42/2006 EEC Low Voltage Directive and 95/2006 EEC EMV-Directive 108/2004
Other applicable Standards:	Full compliance to the European safety rules was assured by enforcement of the following harmonised Standards : EN 1870-6:2010, EN 61000-3-2:2006, EN 61000-3-3, EN 55014-1:2006, EN 55014-2:1997+A1:2001, EN 294, EN 847-1, EN 60204-1
Type-certification	Prüf-und Zertifizierungsstelle des Spitzenverbandes der Landwirtschaftlichen Sozialversicherung Weißensteinstraße 70-72 34131 Kassel Registration number: 2157

tests have been carried out by the following Official Certification Body, in accordance with Annex IX of the EC Directive no. 42/2006. The product specimens were found fully conformant to the applicable technical Standards and to the related control type which is described in the technical documents and for which a type-approval certificated was already released.

Person responsible for the technical documentation: René Pareis (Management)

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Nordhausen 26.10.2016

Date

René Pareis (Director)

Official user language: English

(User's release)

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