USER'S MANUAL

Carefully read these instructions before starting and using your cross-cut saw!

Set up
& use
Maintenance
Accessories

CROSS-CUT SAW KS 700E/KS 700H/ KS 700Z

CE

We manufacture in Germany

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

BGU maschinen

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1. GENERAL INFORMATION

Dear customer,thank you very much for your trust and preference in buying this cross-cut saw!
This cross-cut saw is available from us in the following variants. They differ from each other due to the different power combinations

KS 700E powered electrically by a 400 V motor
KS 700H powered hydraulically
KS 700H powered by power take off from the tractor
KS 600 powered electrically by 230 V motor
KS 600 powered electrically by a 400 V motor

1.1 About the manual

Please take time to read this manual and learn to how operate and maintain the winch 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 reflect current or planned product features, functions, and characteristics as of the publication date. Because of on-going product improvements and feature additions, information in this document is subject to change without notice.

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

When you order parts maintenance or repair services, your Authorized Service Centre, your dealer or eventually the manufacturer need your machine serial number. 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 transfer deck 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) 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 days from delivery. Therefore delivery must be collected and inspected within this term. Later claims will be disregarded.

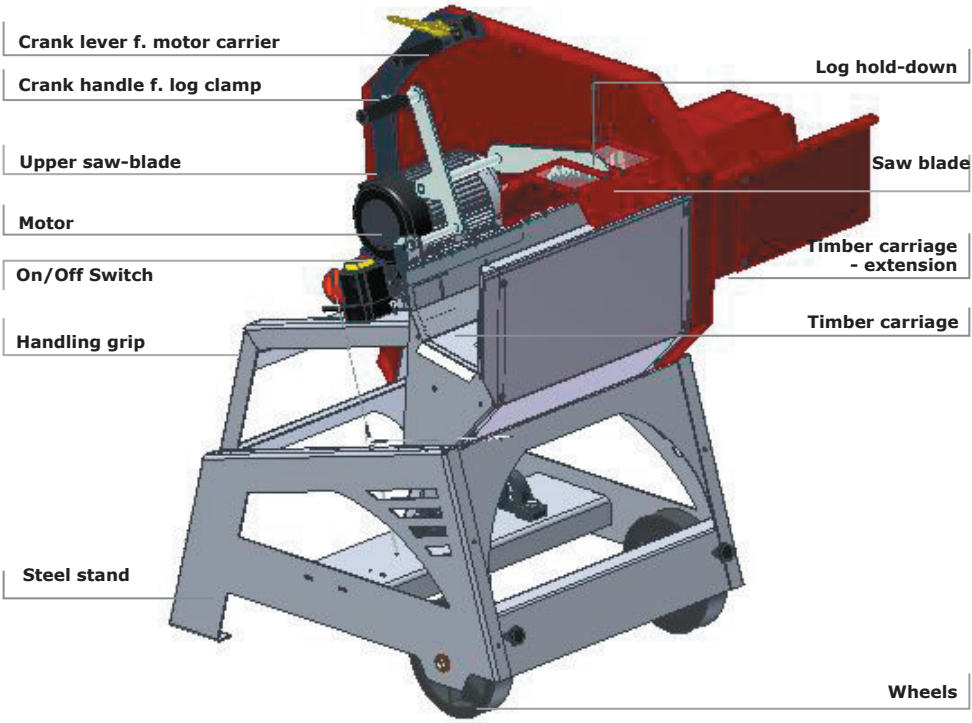
In case of assumed but not visually clear transport damages make sure to mark the following sentence on the delivery bill: „**Reserved delivery due to assumed transportation damages.“** Insurance and shipping companies act with extreme caution in case of transport damages and sometimes refuse to accept 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. MACHINE OVERVIEW

2.1 Cross-cut saw 600

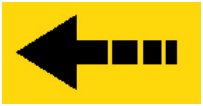
w. electric motor, 230 / 400V



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 is to remind the operator that maintenance and cleaning procedures may only be performed with the power off and all moving parts strictly secured against accidental start. WARNING : watch out, the blade may take a few minuted to come to a complete stop! Wait till it stops before accessing the unit in any way.

2. Notice Warning
„Eyes and hearing protection is mandatory
Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as ear plugs or goggles.



3. Pictogram „Check direction of motor revolutions“
This pictogram shows the must-direction of motor revolutions.

4. Safety-alert symbol“
Read, understand, and follow all instructions in this manual and on the machine before starting!

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

6. “BGU-Maschinen“ Manufacturer’s logo

7. Notice Warning"
Always familiarize with the contents of this manual before setup." Read, understand, and follow all instructions in this manual and on the machine before starting!

8. Safety decal "WARNING Always wear safety shoes"

9. Safety decal "WARNING! Always wear safety gloves"

10. Notice Warning
"Never run the machine indoors" inside a closed area. The exhaust fumes are toxic!

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

12. Machine safety label „p max 200 bar"
Maximum operating pressure is 200 bar.

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

4. SAFETY

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

Users 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 saw. The operators assigned to this machine 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 (18) should operate this saw. 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. 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. Slippery foundation floors should be duly treated (do not use saw dust or wood ash for this purpose).
Make sure that the saw stands on a safe stable foundation.
Do not allow within the hazardous zone any unauthorized third 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.
• Damaged, deformed or buckled blades should not be used.
• A skilled licensed electrician must be asked for any repair of the electric system!
• Always wear gloves, eye and hear protectors as well as safety work clothes when handling /operating the machine.
Ensure that a wide but confined area is available around the machine and ensure maximum working freedom.
• Das Tragen von Sicherheitsschuhen, sowie eng anliegender Kleidung ist für die Bedienperson erforderlich
• 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 a wood stock) against the blade to make it come to a quicker stop.
• Do not use this machine indoors.
NEVER leave the machine unattended without prior power disconnection.
• Before leaving the operator‘s station for any reason, stop the machine, disconnect power and secure the machine against accidental operation.

4.1 Saw blade, safety rules

The following units come with the following (outer diameter) blades:

OD 600 mm for KS 600
OD 700 mm for KS 700E, KS 700Z and KS 700H
Hard metal blades are set to support a maximum speed of 2700 rpm. Make sure to comply with this requirement.
All saw blades must be certified to EN 847-1.
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.

Strictly use sharp blades that are free from any damage or flaw.
Do not ever use worn out blades in need of sharpening. Make sre that the blade shows good conditions, no damages, no cracks, no buckling and no missing/broken teeth/bits.

4.2 Mandatory application field

This cross-cut saw is designed and should be used for cutting round firewood logs only. The manufacturer will consider any other use or application as “misuse”,
Depending on the variant the machine cutting capacity (timber diam.) is:
KS 600: 8 - 20 cm [3 - 8 in]
KS 700E/Z/H 8 - approx. 25 cm [3 - approx. 10 in]

PLEASE NOTE: this is a one-man operation machine ONLY.

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

5. OPERATION

The model variants KS 600-230V, KS 600-400V and KS 700EWK are ideally recommended for stationary use in your yard, whilst the models KS 700H and KS 700Z can be conveniently used for firewood production straight in the woods.
The models KS 600-230V, KS 600-400V and KS 700E are powered by electronic braking force control. The electric motor must be connected to a 16-Amp EC power outlet. In case of alternated power (AC) 230V supplies please make sure to use power cords with a section of 2.5 mm2 [0.0039 in2]. These are normally available on the market as 3x2.5 cables. Power supply is controlled by means of a simple switch/plug combination.
Make sure the length of the power cord does not exceed 10 m [32 ft].
The model KS 700H is powered from the tractor hydraulics. It supplied with two hydraulic hoses that must be attached your tractor hydraulics for saw operation. When attaching and connecting the hydraulic hoses, remember: to check that they are fit properly both on machine and tractor side;
Attach he red end of the hose to the pressure side and the blue end to the return flow side.
If you are operating the saw a stationary machine on a yard, you may also power it by means of any hydraulic power generator.
The KS 700H variant is additionally equipped with 3 point linkage.
A rugged all steel construction assures longest machine life to all variants at any operating condition.
Attach models KS 700Z directly to power take off on your tractor using a PTO driveline.

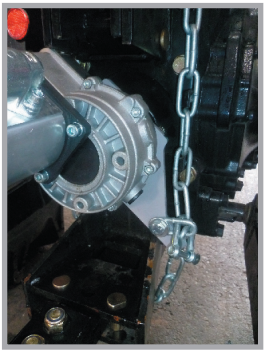


Fig.1

Press the detent lock inward as you slide the machine shaft onto the tractor PTO stub shaft. Slide the machine shaft forward far enough to make sure the detent lock has snapped into the lock position.
Secure the drive shaft with the special restraining chain to avoid dangerous twisting.
Make sure that the gearbox (Pos 1, Fig. 1) always matches the position of the catch on the tractor and faces the direction of driveline revolution.
Once you successfully connected the saw to a tractor's 3 point hitch, and installed the PTO driveline, you are ready to start using it.
Strictly engage the PTO driveline, with the machine/tractor idled. First off, locate and engage the On/Off saw switch on the left hand side of the saw.
Then increase the speed of tractor PTO stub up to max. 420 RPM. Now, the saw is ready for use.
To stop the saw when finished, repeat the same operation in the reverse order: slow tractor speed down, switch the saw off, disengage the PTO, stop the tractor engine, and finally remove the gearbox.
Make sure to disconnect power (switch the tractor off) before performing any work (maintenance or repairs) on the saw.

5.1 Timber carriage extensions

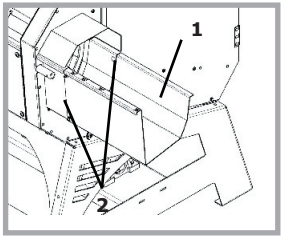


Fig. 1.1

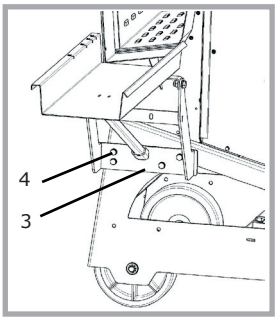


Fig. 2,

Before starting to operate your saw, make sure to assemble the extensions of the timber carriage (if you have a KS 600) and the folding timber carriage (if you have a KS 700E or a KS 700H) on the right hand side of the blade (carriage extensions are not installed by the manufacturer to save on transportation space).

For KS 600 models, screw the carriage extensions (1, Fig. 1.1) using 3 cap square screws.
Fit the screws from the inside face throughout the extension piece and tighten on the outside face using washer and hex nut (Pos. 2, Fig.1.1).

For KS 700E, KS 700Z and KS 700H
Bolt the mounting plate (Pos. 3, Fig.2) for the timber carriage to the steel stand of the saw. Fit the 4 hex screws (and shim underneath them) throughout the plate and tighten on the back side using a washer and a hex nut for each screw (Pos. 4, Fig. 2).

5.2 Log-length marks

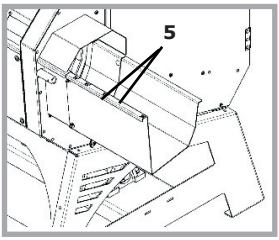


Fig. 3

The marks on the carriage extensions as well as those on the carriage Pos. 5, Fig. 3) are designed to check, "read" and adjust the length of the timber pieces to be but off.
Based off of the required log length, timber will have to reach out to one or the other marking (20cm, 25cm or 33cm) [8, 10, or 13 in].
If you need - just for example - to cut off 50 cm (29 in) long logs, then you need to push you timber on the carriage and onto the extension all the way to the outer rim of the extension right hand side.

5.3 First saw cut

Before starting, inspect the machine for evident, visible damages and unusual conditions.
Make sure the timber carriage is in the initial position (fold down open) and the locking lever is engaged.

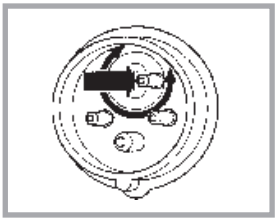


Fig. 4 , Phase inverter

Starting:
Switch the saw on.
If you have an electric version start the machine pressing the green button of the switch (Pos. 8, Fig. 6).
After switching the machine on (all 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 (400V motors only) to change the plugging polarity of the conductor cable (see Fig. 4):

The plug used for powering the electric versions must be fitted with a no-volt release switch designed for rated current up to 30mA.

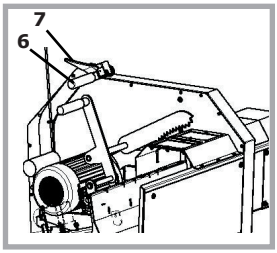


Fig.5

For KS 700H the control valve lever should be in
7 ON as in Pos. 9, Fig..7).
6 Load your timber on the carriage from your saw left hand side. Advance timber on the carriage towards the opposite (right) side until the right end of the timber matches the required log length marking on the carriage extension.
Depending on timber hardness and diameter, it is recommendable to clamp the timber using the special hold-down. Fasten the hold-down grip and pull it down to clamp timber securely on the carriage through out cutting.
To carry out the first timber cut, fasten the motor carrier crank (Pos. 6, Fig. 5) with your right hand and engage (press down) the crank handle (Pos. 7 - Fig. 5). This is to release the motor carrier. Now pull the motor carrier smoothly to the front. When doing so avoid all jerky, bumpy movements that could lead to risky and dangerous situations.

Caution: Avoid excessive pull force during cutting as this may slow the blade down and lead to an undesirable jamming of the saw blade.

As soon as the first log is cut, move the motor carrier back to its initial position. Make sure to wait for complete cut of the first log before you advance timber again to the blade. This will prevent risk of injuries for the operators and machine damages that are not covered by the manufacturer's warranty.
Strictly cut the next log when the timber has been pushed to the right all the way to the required log length mark.
Switch the machine off when the job is done.

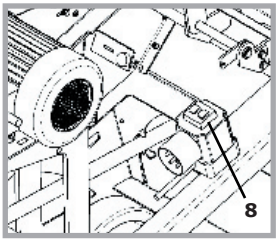


Fig. 6

Stopping:
To stop **an electric machine model, use the red button** on the switch (Pos. 8, Fig. 6).
The electric variants are equipped with electronic brake controller that allows the saw blade to come to a complete stop within 10 seconds from switching off the machine. The brake controller function permits the blade to come to a complete stop within a max lag-time of 10 seconds after switching the motor off (or disconnecting power supply). In this case, switch on the machine again to reactivate the electric motor brake controller.Generation of a humming noise after the blade has come to a complete stop is fully normal and due to motor fan operation.

DO NOT switch the saw on, while the braking process is in progress. 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.

After you switch the motor off, wait for the blade to come to a complete stop before unplugging the machine.

Failure of the saw blade to completely stop within 10 minute time, please stop using the saw immediately and have it overhauled!

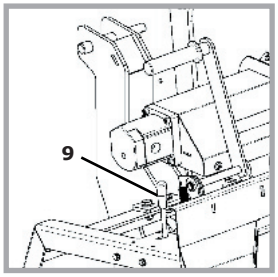


Fig. 7

For KS 700H the control lever (Pos. 9, FIg. 7) should be set on OFF (=AUS in German).
The model KS 700H is also equipped with electronic brake controller. The electronic brake controller allows the stopping of blade within max 10 seconds after switching the motor off.

5.4 Saw blade inserts

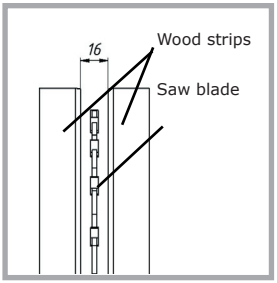


Fig. 8
„Max distance between wood inserts"

The maximum spacing between clearance inserts should never be less than 16 mm.
If the maximum 16 mm spacing between clearance inserts (wood strips) is reduced because of excessive wear, provide for immediate replacement of the wooden inserts! (Fig. 8).

The wooden inserts are consumable materials. Therefore, they are not covered by any warranty (see paragraph 6.4).

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. Unplug the machine from the power supply before attempting any cleaning.Immediately disconnect power off the machine in case of any eventual fault or trouble.

6.1 Ordinary 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.
• Lubrication of all moving parts.

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 rest

6.3 Replacing the saw blade

DANGER! BEWARE: pinched hands danger!.

Always wear tear-resistant, safety gloves while handling any cutting tool. Disconnect power and prevent any accidental restart. (Unplug the machine, disconnect the hydraulic circuit).

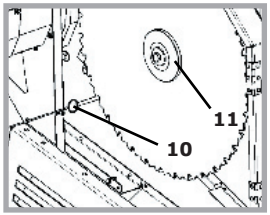


Fig.9

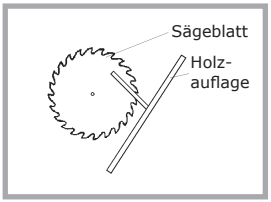


Fig. 10
Position of the saw blade"

Following instructions apply for safe and proper blade replacement:
• Disconnect the machine from the power supply (stop and unplug or switch the tractor off and detach the machine from the tractor), and wait for the blade to have come to a complete stop.
• Open the hood flap over the blade by releasing the hex screws (just undo them a bit. Do not pull them out)
• Fit the fixation bolt (Pos. 10, Fig. 9) in the special bushing on the steel stand to secure the blade while undoing the screws.
• Release and undo the fixation bolt on the blade clamping flange (Pos. 11, Abb. 9).
• 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. All tools must always work against the feed direction that is revolutions must occur towards the operator's station.
Saw blade Timber carriage (see Fig. 10 "saw blade position"). Make sure that the saw blade fits tightly on the sits firmly on the fixed flange hub!
• Mount the locking flange back on the blade shaft minding the right position of the feather-key in the flange.
• Tighten fixation bolt on the flange. BEWARE: when assembling the new blade make sure to install the hardware in the right order, that it: saw blade, external saw blade clamping flange, washer, fixation screw.
• Remove the fixation bolt
• Fit the blade hood in the original position and secure it by tightening all screw
• If you have a KS 700Z: make sure to check the hydraulic oil level in the machine before each new use, and every once in a while. Accurately avoid contaminating the tank with dirt, wood chips, or saw dust.
Make sure that the machine 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 saw operation (very rough, jerky motions) as well as major pump damages. Please schedule your first oil change after approximately 50 operation hours and at least once a year from then on. Always replace the oil filter with each completely new oil fill. Recommended oil types:
DEA HD B 46, Shell Tellus 10-46, Esso Nuto H 46

Monitor your saw cut quality always. A dull saw blade will immediately turn into a poor cut quality. In this case seek professional service to regrind. Do not regrind worn out blades yourself. Always ask for skilled help.

6.4 Consumables

KS 600:
Saw blade (Code No. 95004 HM) -
Wood strip, left side (Code No. 29711)
Wood strip, right side (Code No. 29712)
KS 700:
Saw blade (Code No. 95021 HM)
Wood strip, left side (Code No. 29713)
Wood strip, right side (Code No. 29714)
Hydraulic hoses (please replace them after approx. every 4 years).
CONSUMABLES ARE NO WARRANTY PARTS!!!

7. TRANSPORTATION

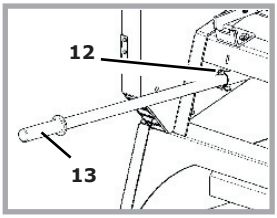


Fig.11

These cross-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 stand on the opposite side as the timber carriage. In order to avoid infringement of the clearance area around the machine, the grip handle can be pulled in/out.
Secure the grip handle with its linchpin (Pos. 12, Fig. 11) to prevent the handle from accidentally sliding back in while pushing the machine away.
Simply fasten the grip (Pos. 13, Fig. 11) and lift the saw for safe and rapid hauling of the machine. For safety reasons the grip handle should remain retracted during work to avoid risk of tripping or entanglement. Just pull it out when you need it to move /handle the machine around.

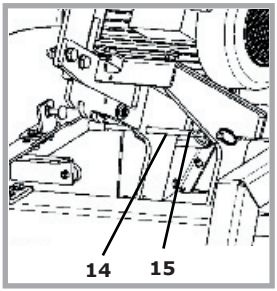


Fig. 12

Remember to lock the carriage before attempting any even short-distance handling of the machine. To lock the carriage flip it to the front and secure it with the clevis pin (Pos. 14, Fig.12). Fit the clevis pin into the holes in the stays of the motor carrier and through the bushing welded on the steel stand. Use the cotters (Pos. 15, Fig. 12) to secure le clevis pins against accidental slipping out and release.

If you have a KS700E/ Z or a KS700H fold up and secure the timber carriage.

7.1 Transporting the machine (for KS 700H only) on a three-point linkage

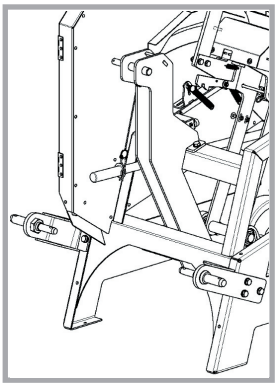


Fig. 13

Attach the machine to a 3-point hitch (Pos. 13, Cat. I or II) 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 infringing the tractor profile by 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 endanger the nearby traffic. For more updated information please consult StVO. If transporting by attachment to a three-point hitch of a farming tractor, 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. DECOMMISSIONING AND DISPOSAL

When the saw 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!

- Lock all moving parts of the mill and pull the machine
- Release all pressure out of the hydraulic hoses and drain all hydraulic oil out
- Hydraulic oil is highly polluting and must be safely disposed of
- Deliver each single component only to authorized waste management facilities
- 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 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 Data	U/Mes.	Cross-cut saw 600	Cross-cut saw 600	Cross-cut saw 700E	Cross-cut saw 700H	Cross-cut saw KS 700Z
Max. timber diameter	mm	200	200	250	250	250
Saw blade diameter	mm	600/30	600/30	700/30	700/30	70030
Output power P1 S6 40% ED	kW	3,0 (60%ED)	4,0	5,2	-	
Tractor power requirement	kW/PS	-	-	-	10 kW/ 13,6	10 kW/ 13,6
Saw blade velocity	U/min	1280	1380	1380	1750	1750
Voltage U	V	**230**	**400**	400	-	
Current I	A	13,5	6,8	9,0	-	
Frequency	Hz	50	50	50	-	
Inlet fuses	A	16 slow-blow	K 20 slow-blow	16 slow-blow	-	
No volt release switch		ja	ja	ja	-	
Safety thermal overload switch		ja	ja	ja	-	
Operating pressure	bar	-	-	-	max.200	
Flow rate	l/min	-	-	-	max.30	
Weight	kg	140	140	195	202	250
Max number of driveline rev.						420
Operating Dimensions						
Length	mm	1124	1124	1589	1677	1677
Depth	mm	967	967	1104	1154	1154
Height	mm	1354	1354	1431	1432	1432
Transport Dimensions						
Length		782	782	947	1035	1035
Depth		967	967	1104	1104	1104
Height		1354	1354	1435	1435	1435

9.1 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, while processing beech wood in the size of 80+/-5% of the admissible diameter as in the user's manual.
Detected noise level:

	No load	Full load
Saw model 700E / 700H	82 db(A)	96 db(A)
Saw model 600	82 db(A)	96 db(A)

When working with BGU wood processor, use ears protectors!

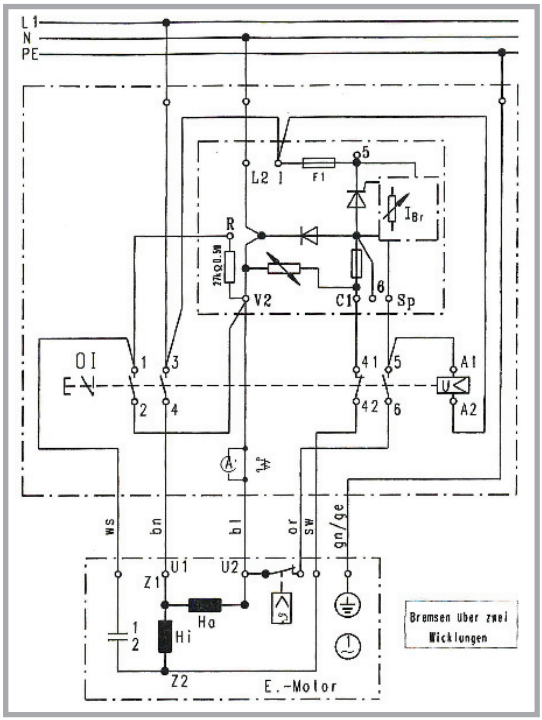
The above mentioned values are emission measurements and may not be therefore assumed as for a safe work environment. Although there is a relationship between noise emission and immission levels, this is not a sufficient basis to determine the extent of on-site required protection. There are a lot of 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 Wiring diagram

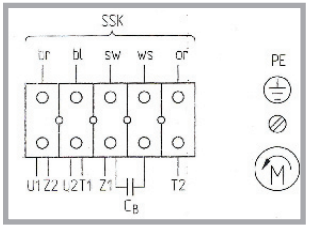
BEWARE: only let expert skilled staff do electric repair/maintenance works!

As for all electric tools and equipment we strongly recommend use a portable residual current device (PRCD), unless you already have in your house a residual current device (RCD) set for max tripping current of 0.03 Amp assuring safety and protection.

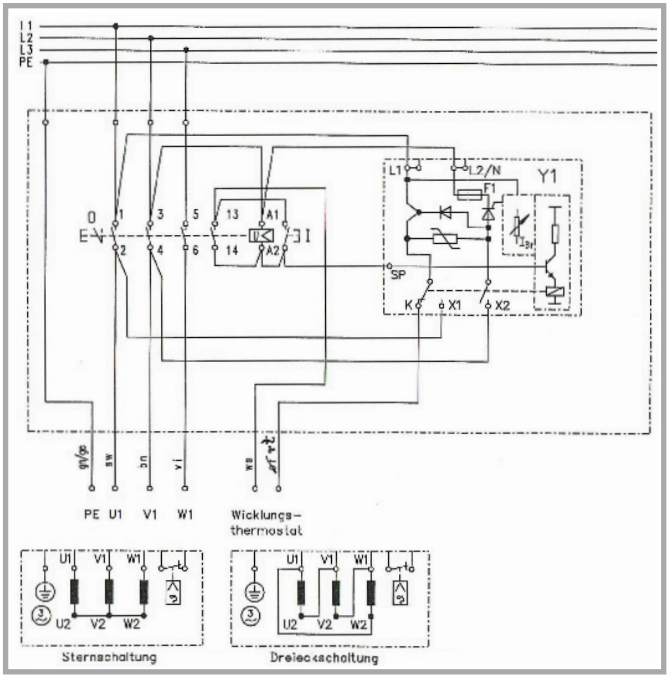
Wiring diagram for cross-cut saw 600 **230 V**



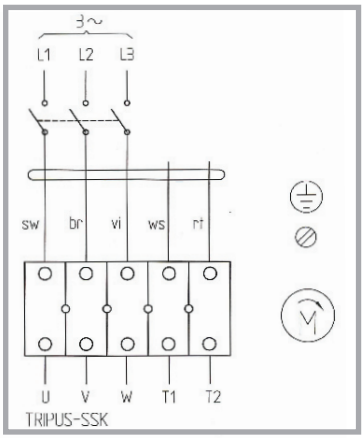
Wiring diagram for cross-cut saw 600 **230 V**



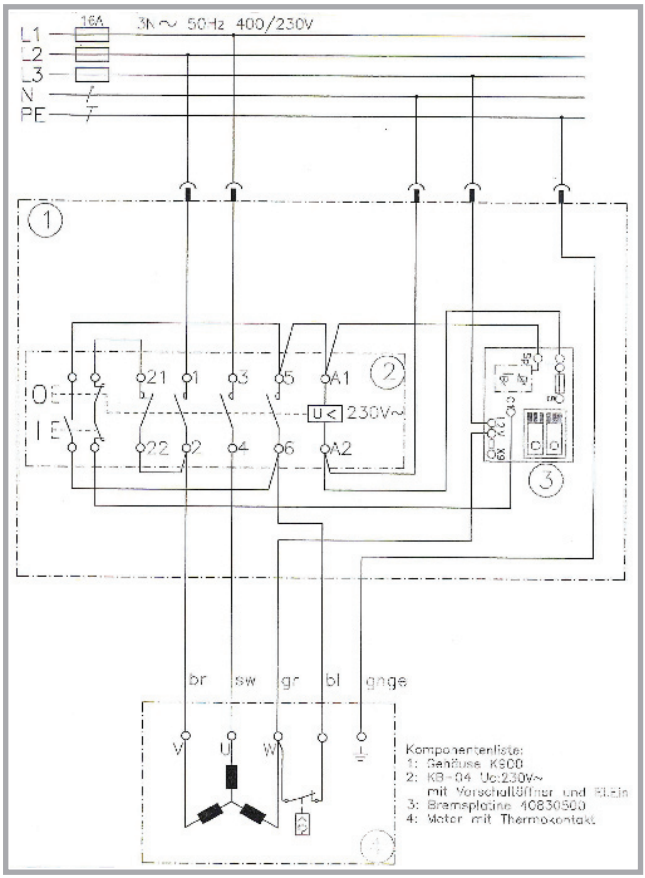
Wiring diagram for cross-cut saw 600 **400 V**



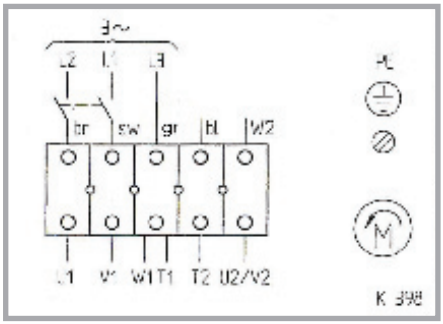
Wiring diagram for cross-cut saw 600 **400 V**



Wiring diagram for cross-cut saw 700E **400 V**



Wiring diagram for cross-cut saw **700 E**



9.3 Hydraulic specifications

The model KS 700H is powered from your tractor hydraulics or a separate hydraulic power unit.
When connecting the hydraulic hoses make sure to attach each end to the matching joints.
Attach the red end of the hose to the pressure side and the blue end to the return flow side.
Check the tightness of the hydraulic hoses and connections after approximately 4 operation hours and tighten them if needed.

The pressure on the hydraulic system is much stronger on KS 700H. Do not check for leaks with your hand. Leaks can be located by passing a piece of cardboard or wood around the suspected leak and looking for discoloration. High-pressure fluid escaping from a very small hole can be almost invisible. Escaping fluid under pressure can have sufficient force to penetrate skin, causing serious injury or even death. In the event of an accidental contact with pressure oil, seek immediate doctor help (skin inflammation).

• Hydraulic oils must be handled with extreme care, always. Always wear safety personal protection devices and accessories.
• Regularly check the conditions of all hydraulic hoses and replace them at the very early sign of wear. Make sure to strictly use Standard DIN-compliant replacement hoses.

Precautions: when replacing hydraulic hoses
• Be real careful about getting rid of residual pressure out of the line/ hose before trying to unhook/pull a hose out.
• Avoid applications where the hose is or will be twisted or pulled. Twisting or stretching a hydraulic hose under pressure may result in hose bursting or hose coupling blow-off.
• Tighten hose assemblies to the recommended torque. If tightening is improper, there are possibilities of leakage, connection portion breakage, and separation.
• Always check the position of the hydraulic fitting.
• Do not use sealant or watertight composite fillers on the fittings.

Remove and replace old hoses and fittings in the following cases:
• If the hose came off the coupling on its own (replace hose and coupling)
• If the hose is cracked, damaged, or leaking (even if the hose got wet due to an internal leakage)
• If the outer lining has worn out to the reinforcement textile liner.
• If the hose shows a flat area or other permanent deformations
• If there are signs of fire burns or the surface is damaged.
• PLEASE NOTE: hydraulic hoses are only covered by the manufacturer with 5 years warranty.
• If the fitting looks corroded, snapped or permanently deformed.
• If the fitting leaks.

• PLEASE NOTE: push-in fittings should be only used once! do not reuse!

Oil and lubricants:
Oils and lubricants may contain chemical agents that may be irritant or hazardous for the skin.
Please be careful when handling this agents and always comply with the following instructions:
• Wear resistant work cloths, put some cream on your hands and wear oil-resistant shoes.
• Mind the presence of oily mist and leaks at the work place. Be careful and watch out for SLIPPERY FLOORS !
• Protect your skin from accidental contact with oils and lubricants.
• Never use oils and lubricants to clean your hands.
• Change oily, filthy clothes as soon as you can.
• Do not stuff oily cloths in your pockets!

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

10. TROUBLE-SHOOTING CHART

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

Problem	Possible cause	Solutions
The saw doesn't start	- Power supply is missing - Faulty switch/plug - Wrong connection of the hydraulic hoses - Motor fault - Control valve fault - Clutch fault	- Connect to power supply - Replace switch/plug - Reconnect the hoses to the right fittings - Replace the motor - Replace new valve - Replace new clutch
The saw doesn't start but the blade does not run	- Locking flange of the blade shaft is not tight	- Tighten the bolts
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 bladen
Buzzing motor	- Braking system is engaged	- Stop the saw and switch it on again after approximately 1 min.

11. OTHER AREAS 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 is 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 Electric dangers

ll 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 (wood dust)

The machine is strictly designed for outdoor applications.

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

11.4 Hydraulic dangers

Hydraulic hoses, especially those that are used for pressure applications, are lined by a textile reinforcement.

DANGER: using plain hoses without reinforcement for pressure applications could lead to unexpected leaks and pressurized oil projections that may be very hazardous.

12. ACCESSORIES

Accessory* Infeed roller belt (Code no. 90197 for KS 600)
(Code no. 90198 for KS 700E/H/Z)
All crosscut saws may be equipped with an optional infeed belt.

The infeed belt is installed on the left hand side of the saw and bolted to the timber carriage.
The infeed belt can be very convenient for safe and effortless handling of even very long timber. The distance between the roller can be reduced to any pitch by simply fitting extra-rollers (Code no. 56395) in the free gap between every two rollers.

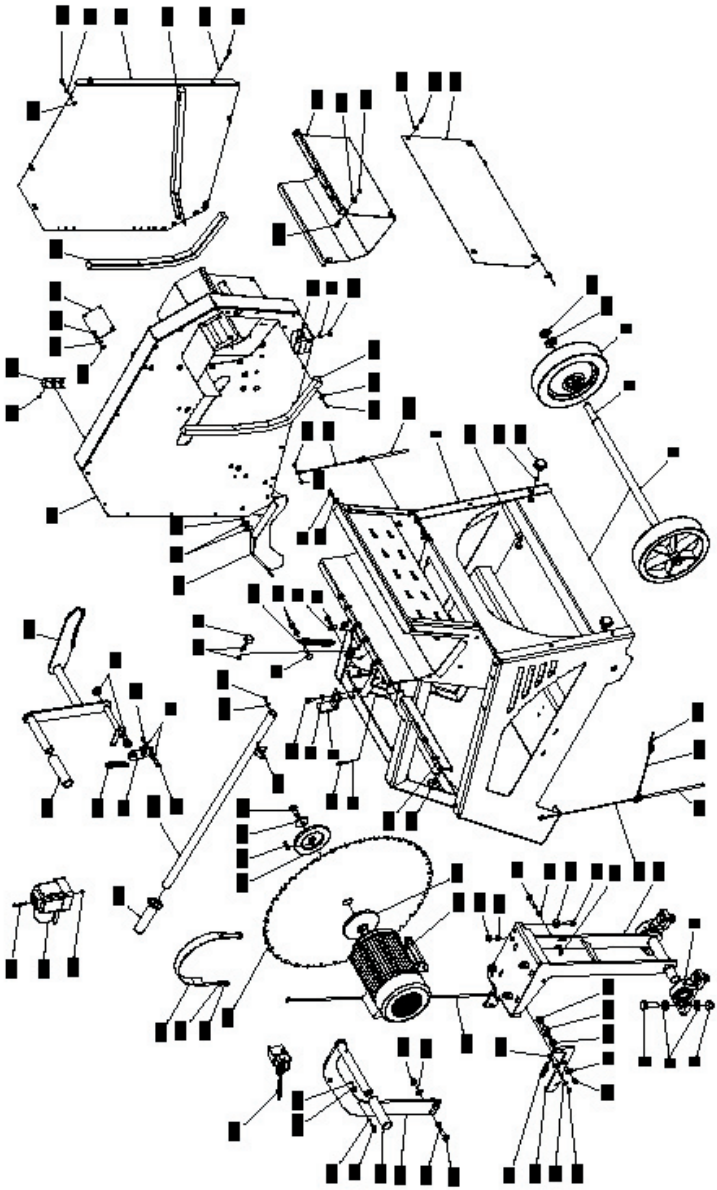
For saws models KS 700E, KS700Z and KS 700H, the roller belt can be folded up for transportation.

Operating position

Transport position

**Optional pieces and accessories are priced extra and may be purchased at any later time, separately from the saw.*

13. SPARE PARTS



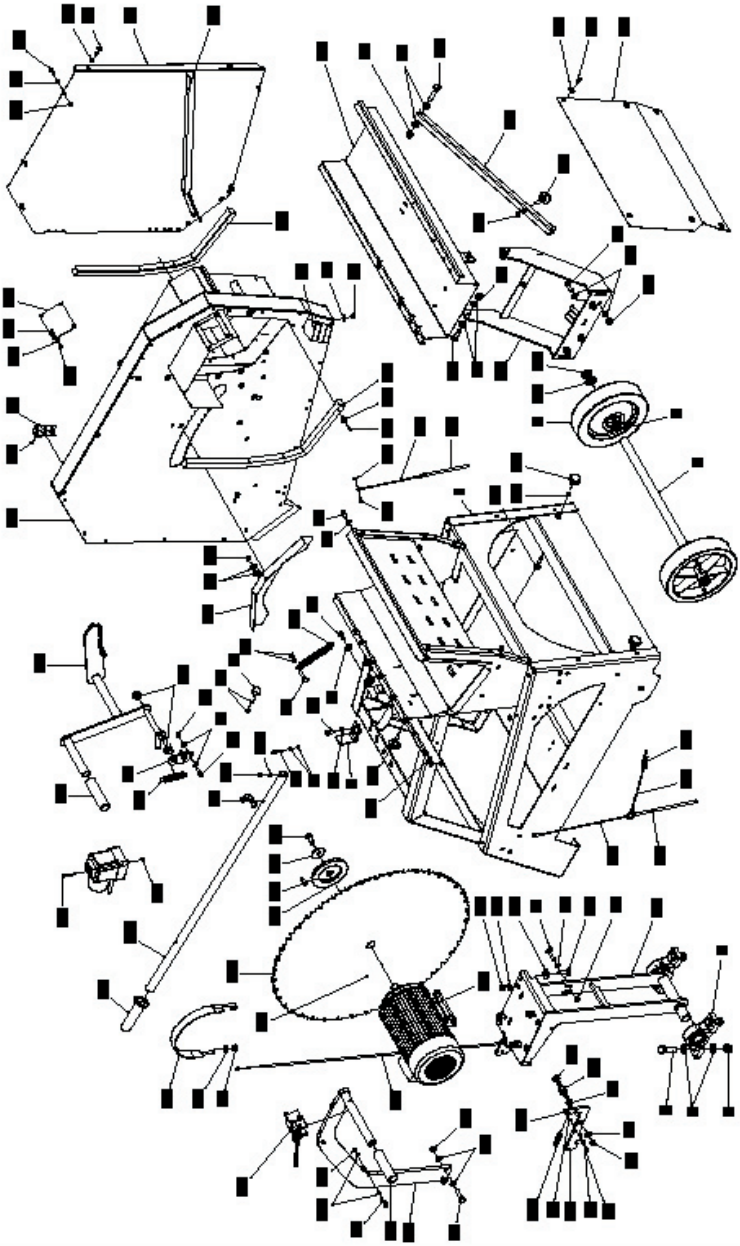
KS 600

Pos.	Description (KS 600 230/400V)	Code No.	DIN	Dimensions
1	Bolted steel stand	29813		
2	Wheel axle	29821		
3	Axle tube	29822		
4	Retainer plate	29833		
5	Solid rubber wheels w.slide bearing 20mm	53280		Hub length 57mm 250x60x20
6	Pedestal bearing block	56877		UCP 206
7	Hex screw	53542	DIN 933	M16x50
8	Flat washer	51652	DIN 125	A 17
9	Self-locking hex nut	51611	DIN 985	M16
10	Eyescrew	57022		M5x20
11	Hex nut	51590	DIN 934	M5
12	Rubber puffer	53906		D=25 H=10 M6x18
13	Hex nut	51591	DIN 934	M6
14	Hex screw	51444	DIN 933	M8x20
15	Flat washer	51697	DIN 9021	8,4
16	Flat washer	51648	DIN 125	A 8,4
17	Hex screw	51446	DIN 933	M8x25
18	Flat round head bolt	51302	DIN 606	M8x45
19	Hex nut	51592	DIN 934	M8
20	Tension spring	54251	DIN 2097	d=2,5 Da=18,5 Lo=124
21	Spring washer	51234		d=20 D=36,6 H=3
22	Flat washer	51654	DIN 125	A 21
23	Star knob	51008		D=40 M8x30
24	Star knob with threaded bushing	50996		D=40 M8
25	Flat round head bold	51298	DIN 603	M8x40
26	Hex nut (lower form)	51578	DIN 439	M8
27	Bolt	27349		
28	Retaining rope	56902		l=200
29	Hex screw	51417	DIN 933	M5x12
30	Self-locking hex nut	51605	DIN 985	M5
31	Clevis pin	29880		
32	Retaining rope	56901		l=150
33	Retaining rope	57030		l=320
34	Cotter pin, single	51203	DIN 11024	3mm galvanized
35	Adjustment gage, assy	29820		

Pos.	Description (KS 600 230/400V)	Code No.	DIN	Dimensions
37	Wood insert, right side	29712		
38	Motor belt, assy	29883		
39	Cross recessed countersunk screw	54395	DIN 7997	4x16 Form H
40	Washer for countersunk screw	54507		M4 D=12 H=3,2
41	Self-locking hex nut	51608	DIN 985	M 10
42	Washer	51649	DIN 125	A 10,5
43	Motor switch KS602(230V)	902395		
43	Motor switch KS603 (400V)	902396		
44	Cross slotted oval head screw	51564	DIN 7985	M 5x45
45	Control handle f. Bowden cable	57031		
46	Bowden cable to lock the timber carriage	29884		
47	Grip handle	29817		
48	Grip	52110		di=25, l=110
49	Washer	51646	DIN 125	A 5,3
50	Standard blind rivet	51844	DIN 7337	A 4,8x8 (3,5-5,5)
51	Linchpin	53590	DIN 11023	5x32 mm
52	Aluminum Motor Casing DASR 90L4 B3	902389		400 V
52	Motor ECSR 90LX4230 V	902390		
53	Fixed blade flange	902392		
54	Moving blade flange	902393		
55	Feather-key	902394		
56	End washer	902399		
57	Hex screw	51478	DIN 933	M 12x30
58	Motor bracket, assy	29830		
59	Motor swivel arm, assy	29833		
60	Hand grip without flange	57023		di=26, l=120
61	Hex screw	51464	DIN 933	M 10x35
62	Washer	51698	DIN 9021	10,5
63	Bolted hood	29853		
64	Protector assy f. timber carriage	29860		
65	Inspection glass	29861		
66	Wood strip, hood	29858		
67	Hex slotted oval head screw	53040	DIN 7380	M 6x16
68	Washer	56805		Plastic A 6,4
69	Self-locking hex nut	51606	DIN 985	M 6
70	Hinge	56549		80x41x1,5

Pos.	Description (KS 600 230/400V)	Code No.	DIN	Dimensions
71	Standard blind rivet	51844	DIN 7337	A 4,8x8 (3,5-5,5)
72	Hex screw w. collar	57028	DIN 6921	M 6x30
73	Flat round head bold	51303	DIN 603	M 8x20
74	Self-locking hex nut	51607	DIN 985	M 8
75	Washer	57032		
76	Saw blade hood, riveted	29856		Plastic 8,4
77	SAVETIX hex screw	56377	DIN 933	M 6x20x10
78	Washer	51647	DIN 125	A 6,4
79	Lock washer	56385	DIN 6799 5	
80	Timber hold-down	29869		
81	Mounting plate f. timber hold-down	56547		
82	Slide bearing w. flange	56547		d=16 D=22 b=12
83	Tension spring	51889	DIN 20971	1,6x15,4x89
84	Front casing	29872		
85	Washer	51696	DIN 9021	6,4
86	Timber carriage extension	29874		
87	Flat round head bold	53196	DIN 603	M 6x16
88	Snap-in hook	29877		
89	Fulcrum stop angle	27579		
90	Slide bearing w. flange	56560	DIN 1850	d=12 D=16 b=10
91	Hex nut	51595	DIN 934	M 12
92	Tension spring	51888	DIN 2097	1,6xDe15,5xLk45,6
93	Hex screw	51431	DIN 933	M 6x20
94	Saw blade	95004		600x2,8x30 HM

KS 700E

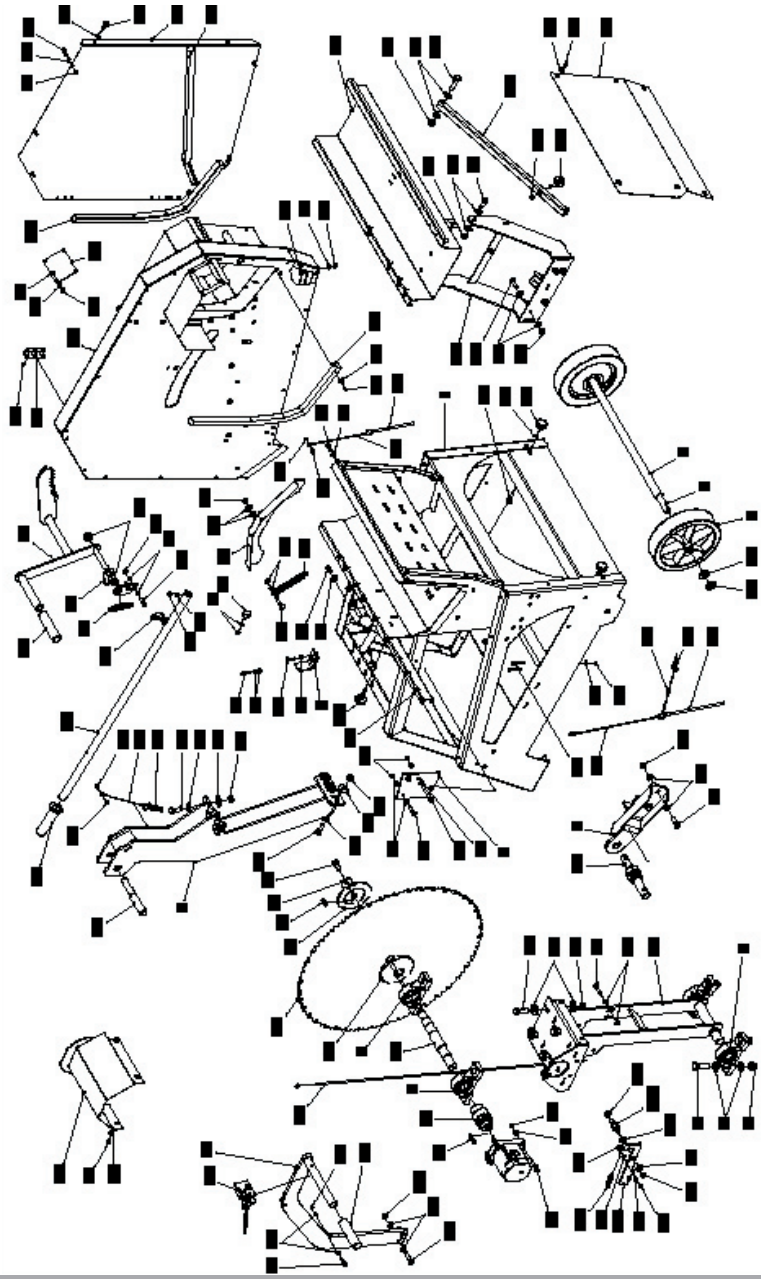


Pos.	Description (KS 700E)	Code no.	DIN	Dimensions
1	Bolted steel stand	29899		
2	Wheel axle	29821		
3	Axle tube	29822		
4	Retainer plate	29823		
5	Solid rubber wheel w. 20 mm slide bearing	53280		Nabenl. 57mm 250x60x20
6	Pedestal bearing block	56877		UCP 206
7	Hex screw	53542	DIN 933	M 16x50
8	Washer	51652	DIN 125	A 17
9	Self-locking hex nut	51611	DIN 985	M 16
10	Eyescrew	57022		M 5x20
11	Hex nut	51590	DIN 934	M 5
12	Rubber puffer	53906		D=25 H=10 M6x18
13	Hex nut	51591	DIN 934	M 6
14	Hex screw	51444	DIN 933	M 8x20
15	Washer	51697	DIN 9021	8,4
16	Washer	51648	DIN 125	A 8,4
17	Hex screw	51446	DIN 933	M 8x25
18	Flat round head bold	51302	DIN 603	M 8x45
19	Hex nut	51592	DIN 934	M 8
20	Tension spring	54251	DIN 2097	d=2,5 Da=18,5 Lo=124
21	Spring washer	51234		d=20 D=36,6 H=3
22	Washer	51654	DIN 125	A 21
23	Star knob	51008		D=40 M8x30
24	Star knob with threaded bushing	50996		D=40 M8
25	Flat round head bold	51298	DIN 603	M 8x40
26	Hex nut (low type)	51578	DIN 439	M 8
27	Bolt	27349		
28	Retaining rope	56902		l=200
29	Hex screw	51417	DIN 933	M 5x12
30	Self-locking hex nut	51605	DIN 985	M 5
31	Clevis pin	29880		
32	Retaining rope	56901		l=150
33	Retaining rope	57030		l=200
34	Cotter pin, single	51203	DIN 11024	3mm galv.
35	Adjustment gage assy	29820		
36	Wood insert, left side	29713		

Pos.	Description (KS 700E)	Code no.	DIN	Dimensions
37	Wood insert, right side	29714		
38	Motor belt assy	29883		
39	Cross recessed countersunk screw	54395	DIN 7997	4x16 Form H
40	Washer f. countersunk screw	54507		M4 D=12 H=3,2
41	Self-locking hex nut	51608	DIN 985	M 10
42	Washer	51649	DIN 125	A 10,5
43	Motor switch KS700E	902397		
44	Cross slotted oval head screw	51564	DIN 7985	M 5x45
45	Control handle f. Bowden cable	57031		
46	Bowden cable to lock the timber carriage	29948		
47	Grip handle	29903		
48	Grip	52110		di=25, l=110
49	Washer	51646	DIN 125	A 5,3
50	Standard blind rivet	51844	DIN 7337	A 4,8x8 (3,5-5,5)
51	Linchpin	53590	DIN 11023	5x32 mm
52	Aluminum motor casing DASR 90LX4 B3	902391		
53	Blade fixed flange	902392		
54	Blade mobile flange	902393		
55	Feather key	902394		
56	End washer	902399		
57	Hex screw	51478	DIN 933	M 12x30
58	Motor bracket assy	29830		
59	Motor swing arm assy	29909		
60	Hand grip without flange	57023		di=26, l=120
61	Hex screw	51464	DIN 933	M 10x35
62	Washer	51698	DIN 9021	10,5
63	Hex screw	51465	DIN 933	M 10x40
64	Bolted hood	29925		
65	Protector assy f. timber carriage	29931		
66	Inspection glass	29932		
67	Wood strip, hood	29928		
68	Hex slotted oval head screw	53040	DIN 7380	M 6x16
69	Washer	56805		Plastic A 6,4
70	Self-locking hex nut	51606	DIN 985	M 6
71	Hinge	56549		80x41x1,5

Pos.	Description (KS 700E)	Code no.	DIN	Dimensions
72	Hex screw with collar	57028	DIN 6921	M 6x30
73	Flat round head bold	51303	DIN 603	M 8x20
74	Self-locking hex nut	51607	DIN 985	M 8
75	Washer	57032		Plastic A 8,4
76	Saw blade upper hood assy	29927		
77	SAVETIX hex screw	56377	DIN 933	M 6x20x10
78	Washer	51647	DIN 125	A 6,4
79	Locking washer	56385	DIN 6799	5
80	Timber hold-down	29869		
81	Mounting plate f. timber hold-down	29870		
82	Sliding bearing w. flange	56547		d=16 D=22 b=12
83	Tension spring	51889	DIN 2097	1,6x15,4x89
84	Front casing	29934		
85	Washer	51696	DIN 9021	6,4
86	Timber carriage assy	29939		
87	Mounting plate assy	29944		
88	Mount f. timber carriage	29945		
89	Star know	51002		D=40 M8x40
90	Hex screw	52302	DIN 933	M 12x55
91	Washer	51650	DIN 125	A 13
92	Self-locking hex nut	51609	DIN 985	M 12
93	Hex screw	51463	DIN 933	M 10x30
94	Hex screw	51478	DIN 933	M 12x30
95	Clamping washer	56895		8
96	Latch (hook)	29877		
97	Fulcrum stop angle	27579		
98	Sliding bearing w. flange	56560	DIN 1850	d=12 D=16 b=10
99	Hex nut	51595	DIN 934	M 12
100	Tension spring	51888	DIN 2097	1,6xDe15,5xLk45,6
101	Hex screw	51431	DIN 933	M 6x20
102	Saw blade	95021		700x3,2x30 HM

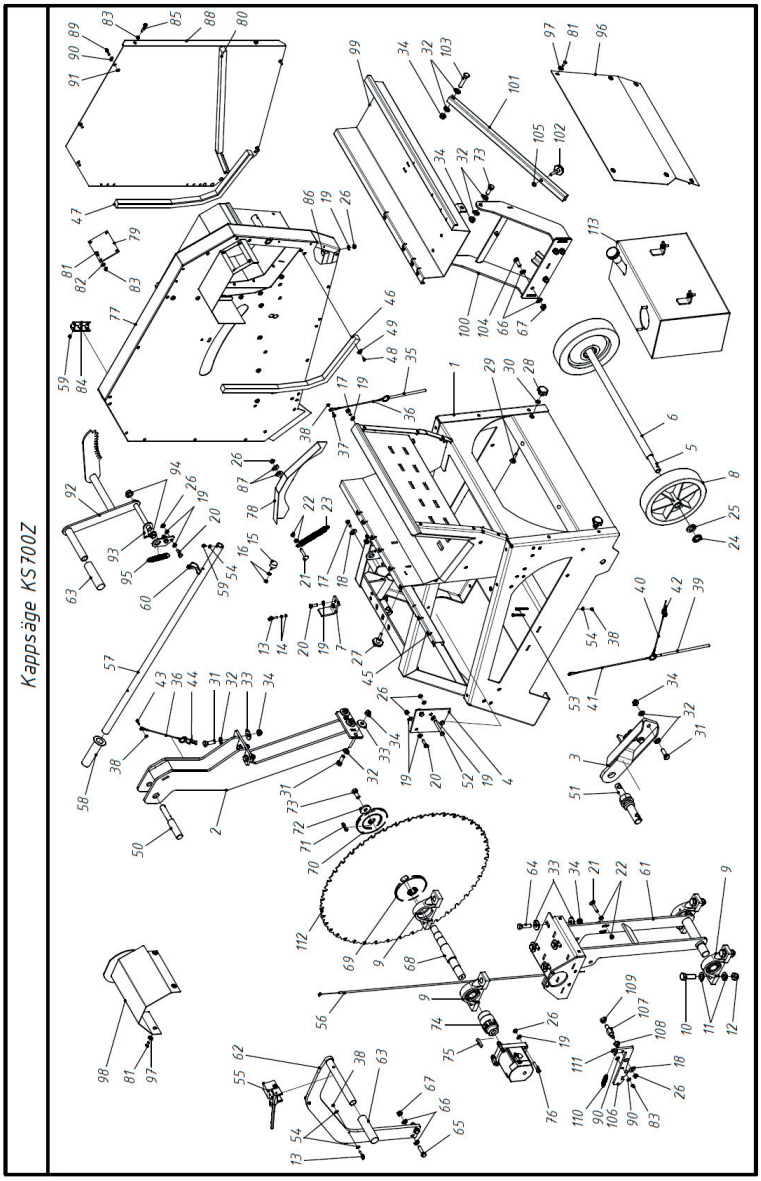
KS 700H



Pos.	Description (KS 700H)	Code No.	DIN	Dimensions
1	Bolted steel stand	29899		
2	Three-point linkage	29953		
3	Holder f. lower hitch pins	29957		
4	Valve holder	29958		
5	Wheel axle	29821		
6	Axle tube	29822		
7	Retaining plate	29823		
8	Solid rubber wheel w. 20 mm sliding bearing	53280		250x60x20
9	Pedestal bearing block	56877		UCP 206
10	Hex screw	53542	DIN 933	M 16x50
11	Washer	51652	DIN 125	A 17
12	Self-locking hex nut	51611	DIN 985	M 16
13	Eyescrew	57022		M 5x20
14	Hex nut	51590	DIN 934	M 5
15	Gummi puffer	53906		D=25 H=10 M6x18
16	Hex nut	51591	DIN 934	M 6
17	Hex screw	51444	DIN 933	M 8x20
18	Washer	51697	DIN 9021	8,4
19	Washer	51648	DIN 125	A 8,4
20	Hex screw	51446	DIN 933	M 8x25
21	Flat round head bolt	51302	DIN 603	M 8x45
22	Hex nut	51592	DIN 934	M 8
23	Tension spring	54251	DIN 2097	d=2,5 Da=18,5 Lo=124
24	Spring washer	51234		d=20 D=36,6 H=3
25	Washer	51654	DIN 125	A 21
26	Self-locking hex nut	51607	DIN 985	M 8
27	Star knob	51008		D=40 M8x30
28	Star knob with threaded bushing	50996		D=40 M8
29	Flat round head bolt	51298	DIN 603	M 8x40
30	Hex nut (low type)	51578	DIN 439	M 8
31	Hex screw	51479	DIN 933	M 12x35
32	Washer	51650	DIN 125	A 13
33	Washer	51699	DIN 9021	13
34	Self-locking hex nut	51609	DIN 985	M 12
35	Bolt	27349		
36	Retaining rope	56902		GN111.2 l=200
37	Hex screw	51417	DIN 933	M 5x12

Pos.	Description (KS 700H)	Code No.	DIN	Dimensions
38	Self-locking hex nut	51605	DIN 985	M 5
39	Clevis pin	29880		
40	Retaining rope	56901		GN111.2 l=150
41	Retaining rope	57030		GN111.2 l=320
42	Cotter pin, single	51203	DIN 11024	3 mm galv.
43	Hex screw	51418	DIN 933	M 5x16
44	Cotter pin, single	51204	DIN 11024	4 mm galv.
45	Adjustment gage, assy	29820		
46	Wood insert, left side	29713		
47	Wood insert, right side	29714		
48	Cross recessed countersunk screw	54395	DIN 7997	4x16 Form H
49	Washer f. countersunk screw	54507		M4 D=12 H=3,2
50	Upper hitch pin, Cat. 1-2	53155		
51	Lower hitch pin	53159		
52	Hex screw	53159	DIN 933	M 8x65
53	Hex screw	57046	DIN 933	M 5x65
54	Washer	51646	DIN 125	A 5,3
55	Control handle f. Bowden cable	57031		
56	Bowden cable to lock the timber carriage	29948		
57	Grip handle	29903		
58	Grip	52110		di=25, l=110
59	Standard blind rivet	51844	DIN 7337	A 4,8x8 (3,5-5,5)
60	Linchpin	53590	DIN 11023	5x32 mm
61	Mount assy f. saw arbor	29966		
62	Motor swivel arm assy	29909		
63	Hand grip without flange	57023		di=26, l=120
64	Hex screw	51481	DIN 933	M 12x45
65	Hex screw	51465	DIN 933	M 10x40
66	Washer	51649	DIN 125	A 10,5
67	Self-locking hex nut	51608	DIN 985	M 10
68	Saw arbor	29968		
69	Blade fixed flange	902392		
70	Blade mobile flange	902393		
71	Feather key	902394		
72	End washer	29969		
73	Hex screw	29969	DIN 933	M 12x30
74	Elastic coupling	53315		

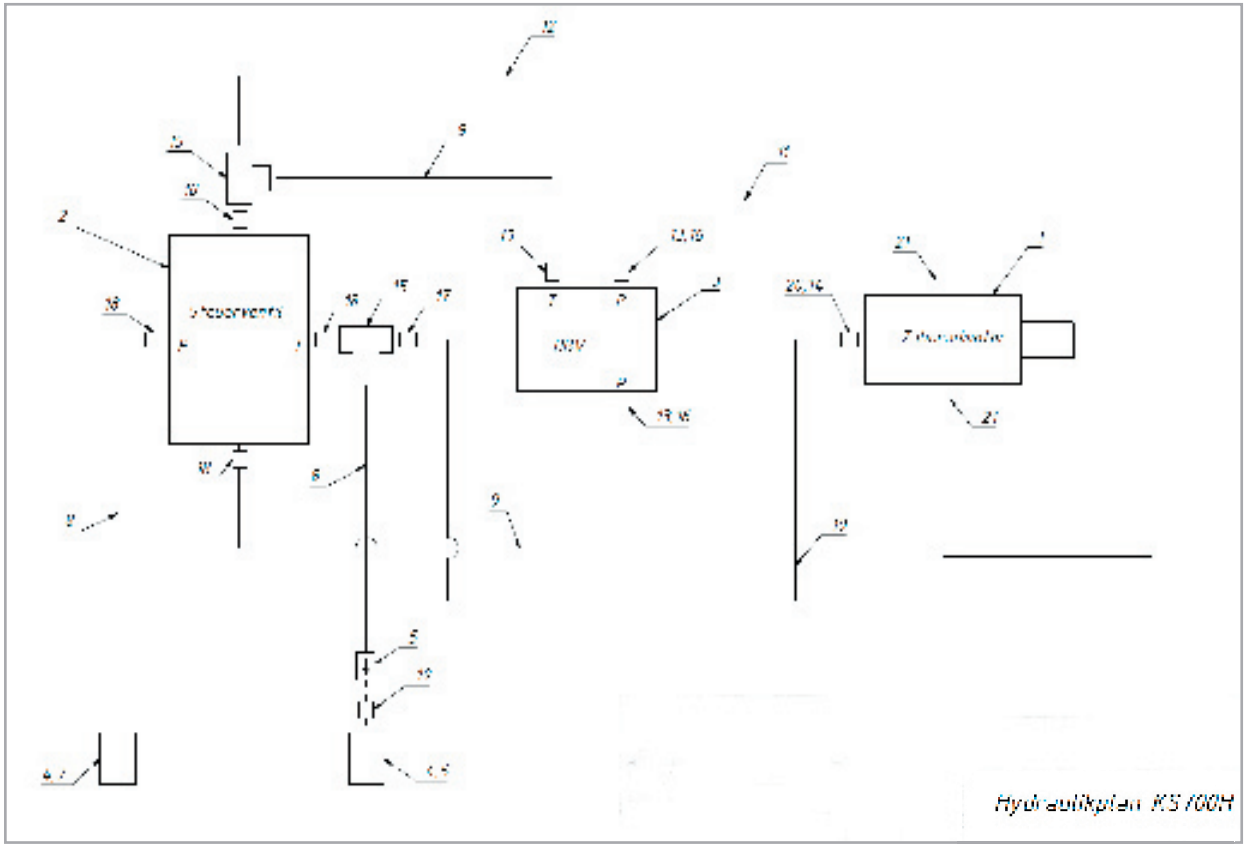
Pos.	Description (KS 700H)	Code No.	DIN	Dimensions
75	Feather key	51723	DIN 6885	A 8x7x40
76	Socket head screw	51356	DIN 912	M 8x40
77	Bolted hood	29925		
78	Protector assy f. timber carriage	29931		
79	Inspection glass	29932		
80	Wood strip, hood	29928		
81	Hex slotted oval head screw	53040	DIN 7380	M 6x16
82	Washer	56805		Plastic A 6,4
83	Self-locking hex nut	51606	DIN 985	M 6
84	Hinge	56549		80x41x1,5
85	Hex screw mit Flansch	57028	DIN 6921	M 6x30
86	Flat round head bolt	51303	DIN 603	M 8x20
87	Washer	57032		Plastic A 8,4
88	Bolted upper hood f. saw blade	29927		
89	Hex screw SAVETIX	56377	DIN 933	M 6x20x10
90	Washer	51647	DIN 125	A 6,4
91	Safety washer	56385	DIN 6799	5
92	Timber hold-down assy	29869		
93	Mounting plate f. timber hold-down	29870		
94	Slide bearing w. collar	56547		d=16 D=22 b=12
95	Tension spring	51889	DIN 2097	1,6x15,4x89
96	Front casing	29934		
97	Washer	51696	DIN 9021	6,4
98	Saw arbor cover, bolted	29973		
99	Timber carriage, long	29939		
100	Mounting plate assy	29944		
101	Mount f. timber carriage	29945		
102	Star knob	51002		D=40 M8x40
103	Hex screw	52302	DIN 933	M 12x55
104	Hex screw	51463	DIN 933	M 10x30
105	Clamping washer	56895		8
106	Clip hook	29877		
107	Fulcrum stop angle	27579		
108	Slide bearing w. collar	56560	DIN 1850	d=12 D=16 b=10
109	Hex nut	51595	DIN 934	M 12
110	Tension spring	51888	DIN 2097	1,6xDe15,5xLk45,6
111	Hex screw	51431	DIN 933	M 6x20
112	Saw blade	95021		700x3,2x30 HM


Kappsäge KS700Z

Pos.	Description (KS 700Z)	Code No.	DIN	Dimensions
1	Bolted steel stand	29899		
2	Three-point linkage	29953		
3	Holder f. lower hitch pins	29957		
4	Valve holder	29958		
5	Wheel axle	29821		
6	Axle tube	29822		
7	Retaining plate	29823		
8	Solid rubber wheel w. 20 mm sliding bearing	53280		250x60x20
9	Pedestal bearing block	56877		UCP 206
10	Hex screw	53542	DIN 933	M 16x50
11	Washer	51652	DIN 125	A 17
12	Self-locking hex nut	51611	DIN 985	M 16
13	Eyescrew	57022		M 5x20
14	Hex nut	51590	DIN 934	M 5
15	Gummi puffer	53906		D=25 H=10 M6x18
16	Hex nut	51591	DIN 934	M 6
17	Hex screw	51444	DIN 933	M 8x20
18	Washer	51697	DIN 9021	8,4
19	Washer	51648	DIN 125	A 8,4
20	Hex screw	51446	DIN 933	M 8x25
21	Flat round head bolt	51302	DIN 603	M 8x45
22	Hex nut	51592	DIN 934	M 8
23	Tension spring	54251	DIN 2097	d=2,5 Da=18,5 Lo=124
24	Spring washer	51234		d=20 D=36,6 H=3
25	Washer	51654	DIN 125	A 21
26	Self-locking hex nut	51607	DIN 985	M 8
27	Star knob	51008		D=40 M8x30
28	Star knob with threaded bushing	50996		D=40 M8
29	Flat round head bolt	51298	DIN 603	M 8x40
30	Hex nut (low type)	51578	DIN 439	M 8
31	Hex screw	51479	DIN 933	M 12x35
32	Washer	51650	DIN 125	A 13
33	Washer	51699	DIN 9021	13
34	Self-locking hex nut	51609	DIN 985	M 12
35	Bolt	27349		
36	Retaining rope	56902		GN111.2 l=200
37	Hex screw	51417	DIN 933	M 5x12

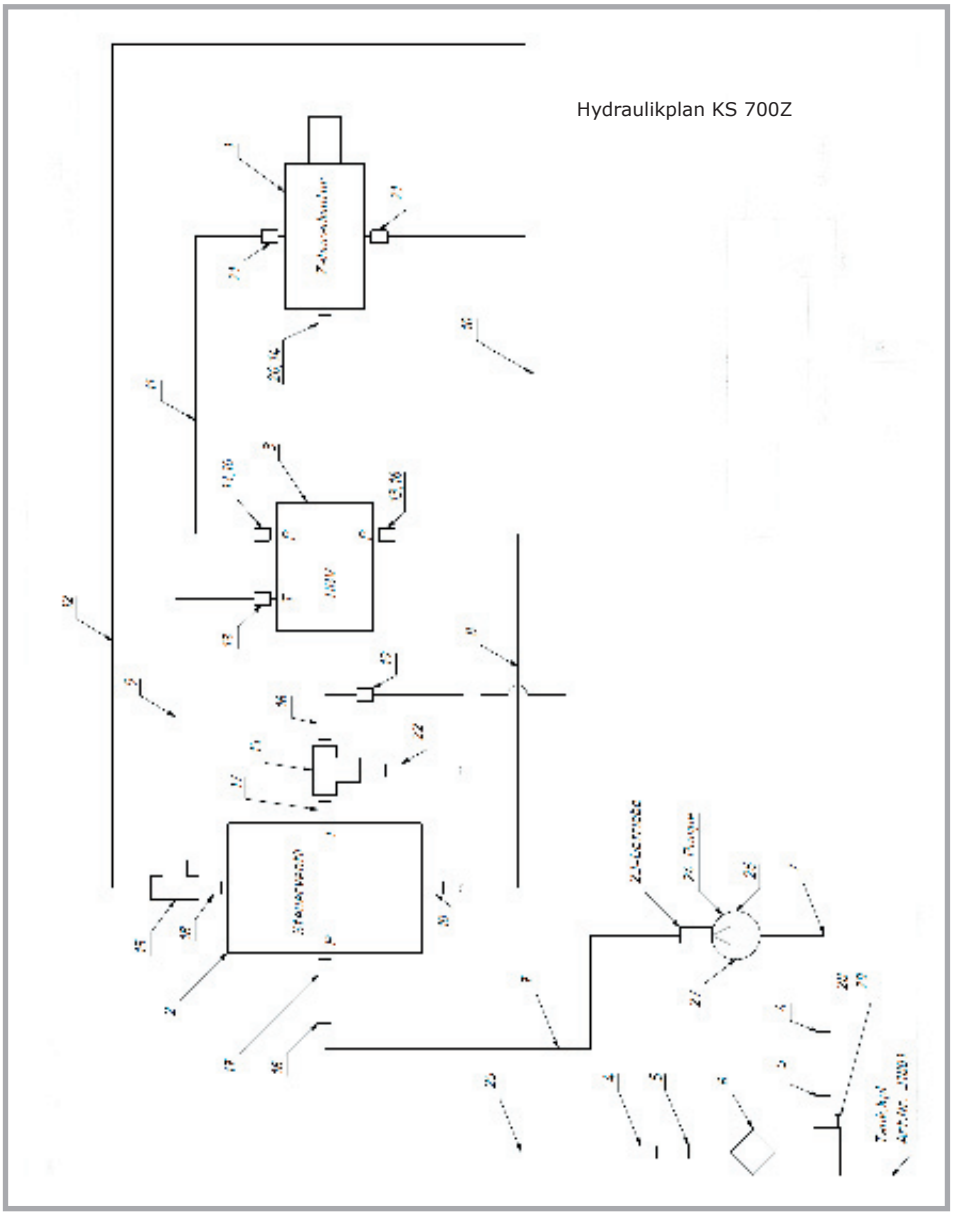
Pos.	Description (KS 700Z)	Code No.	DIN	Dimensions
38	Self-locking hex nut	51605	DIN 985	M 5
39	Clevis pin	29880		
40	Retaining rope	56901		GN111.2 l=150
41	Retaining rope	57030		GN111.2 l=320
42	Cotter pin, single	51203	DIN 11024	3 mm galv.
43	Hex screw	51418	DIN 933	M 5x16
44	Cotter pin, single	51204	DIN 11024	4 mm galv.
45	Adjustment gage, assy	29820		
46	Wood insert, left side	29713		
47	Wood insert, right side	29714		
48	Cross recessed countersunk screw	54395	DIN 7997	4x16 Form H
49	Washer f. countersunk screw	54507		M4 D=12 H=3,2
50	Upper hitch pin, Cat. 1-2	53155		
51	Lower hitch pin	53159		
52	Hex screw	53159	DIN 933	M 8x65
53	Hex screw	57046	DIN 933	M 5x65
54	Washer	51646	DIN 125	A 5,3
55	Control handle f. Bowden cable	57031		
56	Bowden cable to lock the timber carriage	29948		
57	Grip handle	29903		
58	Griff	52110		di=25, l=110
59	Standard blind rivet	51844	DIN 7337	A 4,8x8 (3,5-5,5)
60	Linchpin	53590	DIN 11023	5x32 mm
61	Mount assy f. saw arbor	29966		
62	Motor swivel arm assy	29909		
63	Hand grip without flange	57023		di=26, l=120
64	Hex screw	51481	DIN 933	M 12x45
65	Hex screw	51465	DIN 933	M 10x40
66	Washer	51649	DIN 125	A 10,5
67	Self-locking hex nut	51608	DIN 985	M 10
68	Saw arbor	29968		
69	Blade fixed flange	902392		
70	Blade mobile flange	902393		
71	Feather key	902394		
72	End washer	29969		
73	Hex screw	29969	DIN 933	M 12x30
74	Elastic coupling	53315		

Pos.	Description (KS 700Z)	Code No.	DIN	Dimensions
75	Feather key	51723	DIN 6885	A 8x7x40
76	Socket head screw	51356	DIN 912	M 8x40
77	Bolted hood	29925		
78	Protector assy f. timber carriage	29931		
79	Inspection glass	29932		
80	Wood strip, hood	29928		
81	Hex slotted oval head screw	53040	DIN 7380	M 6x16
82	Washer	56805		Plastic A 6,4
83	Self-locking hex nut	51606	DIN 985	M 6
84	Hinge	56549		80x41x1,5
85	Hex screw with collar	57028	DIN 6921	M 6x30
86	Flat round head bolt	51303	DIN 603	M 8x20
87	Washer	57032		Plastic A 8,4
88	Bolted upper hood f. saw blade	29927		
89	Hex screw SAVETIX	56377	DIN 933	M 6x20x10
90	Washer	51647	DIN 125	A 6,4
91	Safety washer	56385	DIN 6799	5
92	Timber hold-down assy	29869		
93	Mounting plate f. timber hold-down	29870		
94	Slide bearing w. collar	56547		d=16 D=22 b=12
95	Tension spring	51889	DIN 2097	1,6x15,4x89
96	Front casing	29934		
97	Washer	51696	DIN 9021	6,4
98	Bolted cover f. the saw arbor	29973		
99	Timber carriage, long	29939		
100	Mounting plate assy	29944		
101	Mount f. timber carriage	29945		
102	Star knob	51002		D=40 M8x40
103	Hex screw	52302	DIN 933	M 12x55
104	Hex screw	51463	DIN 933	M 10x30
105	Clamping washer	56895		8
106	Clip hook	29877		
107	Fulcrum stop angle	27579		
108	Slide bearing w. collar	56560	DIN 1850	d=12 D=16 b=10
109	Hex nut	51595	DIN 934	M 12
110	Tension spring	51888	DIN 2097	1,6xDe15,5xLk45,6
111	Hex screw	51431	DIN 933	M 6x20
112	Saw blade	95021		700x3,2x30 HM
113	Tabk, kpl.	31801		


Hydraulikplan KS 700H

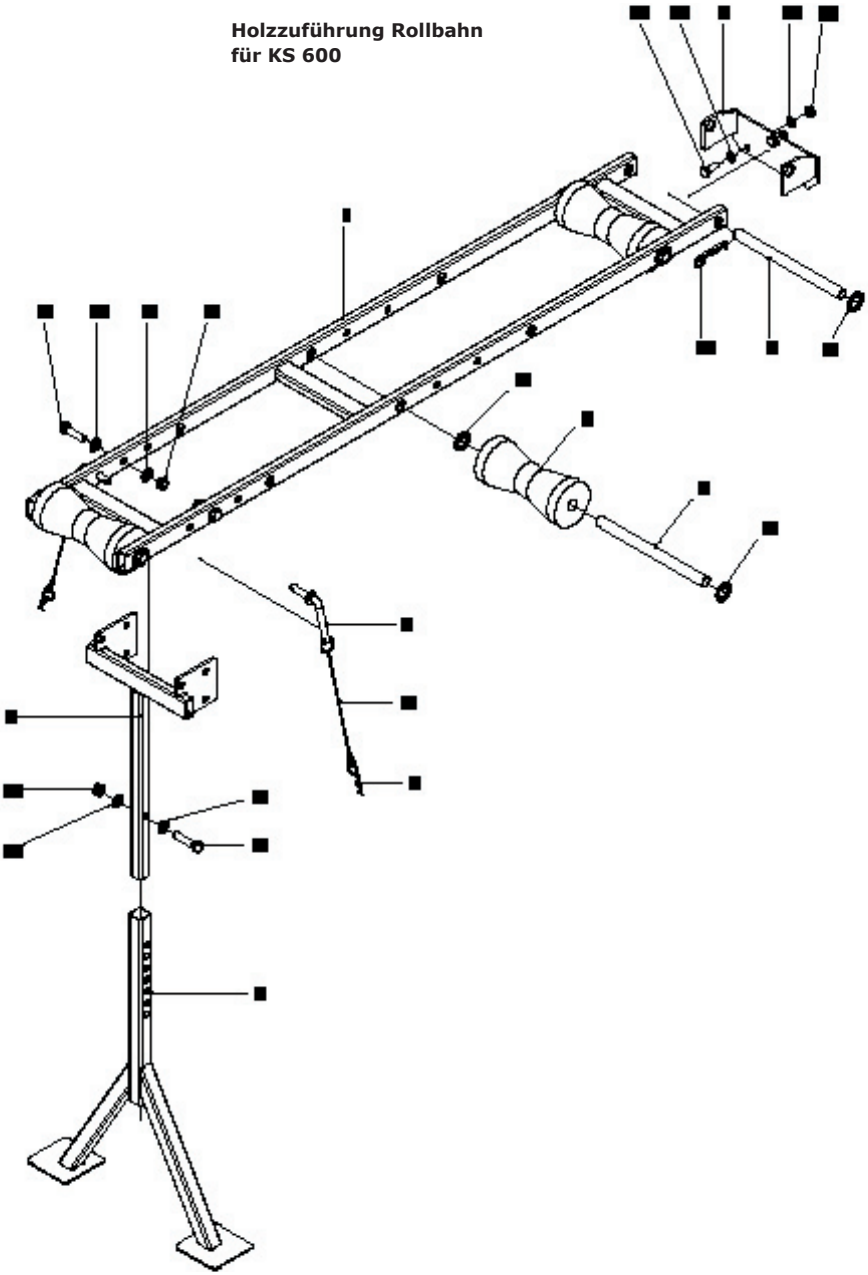
Pos.	Code No.	**Description** (Hydraulic parts KS 700H)	DIN	Dimensions
1	57041	Hydraulic motor GP2		
2	57042	4/3 control valve, manual control		Bore:70x46
3	57043	Pressure relief valve		
4	57658	Male coupling		NW 12/15L/M22x1,5
5	57044	Fitting f. check valve		CEL 15
6	55840	Dust cap		
7	55837	Dust cap		
8	55121	Hydraulic hose		2SN 12-2150 lg
9	55798	Hydraulic hose		2SN 12-500 lg
10	57076	Hydraulic hose		2SN 10-500 lg
11	54623	Hydraulic hose		2SN 12-670 lg
12	57072	Hydraulic hose		2SN 12-650 lg
13	52155	Straight coupling		L15 G1/2"A o.m+d
14	50629	Straight coupling galv.		L12 G3/8"A
15	50645	Adjustable L-union		L15 M22x1,5
16	50644	Adjustable W-union		L15 M22x1,5 o.m+d
17	50648	Straight adapter		L15 12
18	56581	Straight coupling		L15 G3/8"A ED o.m+d
19	57045	Fitting, double nut		DKOL 15
20	50640	W-union		L12 o.m+d
21	52156	Straight coupling		L15 G3/4"A o.m+d

Hydraulikplan KS 700Z



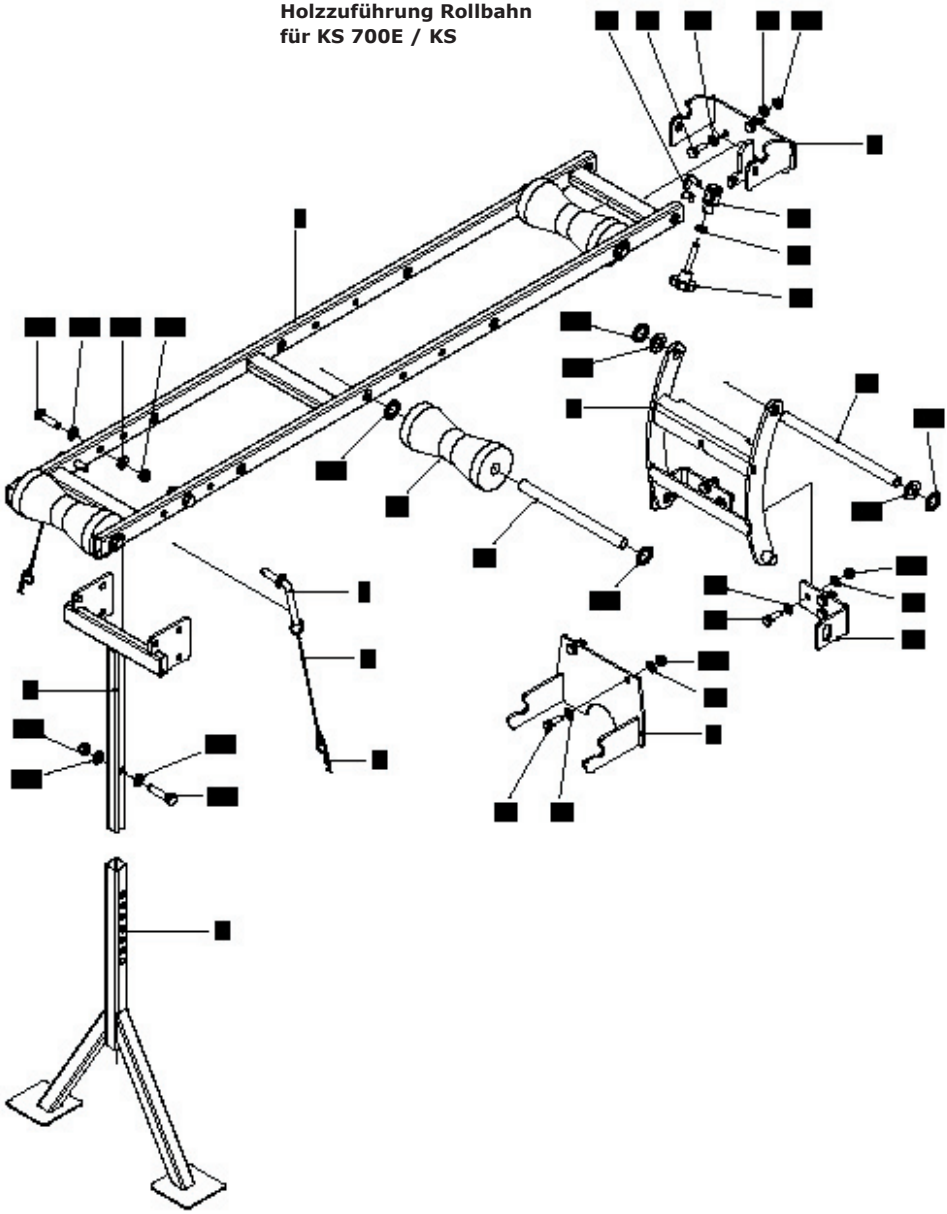
Pos.	Code No.	**Description** (Hydraulikstückliste KS 700H)	DIN	Dimensions
1	57041	Hydraulic motor GP2		
2	57042	Manually operated 4/3 control valve		Bore:70x46
3	57043	Pressure relief valve		
4	57085	Straight adapter		
5	56180	W male coupling		
6	50582	Modina complete return/suction line filter		CV1B410.00
7	55121	Hydraulic hose		2SN 12-2150 lg
8	54017	Hydraulic hose		2SN 12-600 lg
9	55798	Hydraulic hose		2SN 12-500 lg
10	55124	Hydraulic hose		2SN 10-550 lg
11	54623	Hydraulic hose		2SN 12-670 lg
12	57072	Hydraulic hose		2SN 12-650 lg
13	52155	Straight coupling		L15 G1/2"A o.m+d
14	50629	Straight coupling galv.		L12 G3/8"A
15	50645	Adjustable L-union		L15 M22x1,5
16	50644	Adjustable W-union		L15 M22x1,5 o.m+d
17	50630	Straight coupling		L15 G3/8"A o.m+d
18	56581	Straight coupling		L15 G3/8"A ED o.m+d
19	57094	Straight adapter		L15- 18A
20	50640	W-union		L12 o.m+d
21	52156	Straight coupling		L15 G3/4"A o.m+d
22	55161	Straight adapter		KOR 12LÜ/ 15LA
23	54260	Gear reducer f. PG2		i=1:3,8
24	52396	Gear pumpe GP2, ball 1:8		
25	56812	Hydraulic hose		1SN 16-500 lg
26	50655	Elbow flanged coupling		
27	55035	Elbow flanged coupling		3/4"x40
28	53152	Copper ring for 3/4" Screw plug		
29	53062	Screw plug with collar	DIN 910	

Holzzuführung Rollbahn
für KS 600



Pos.	**Description** (KS 600 Holzzuführung Rollbahn)	Code No.	DIN	Dimensions
1	Infeed roller belt	27842		
2	Upper mounting plate	29979		
3	Leg, upper part	27858		
4	Stützfuß Rollbahn,g.	27862		
5	Roller axle	27867		
6	Upper roller	29980		
7	Roller w. steel tube	56395		D=88 b=199 d=22
8	Clevis pin, leg	27864		
9	Cotter pin, single	51203	DIN 11024	3 mm galv.
10	Retaining rope	56901		l=150
11	Spring washer	51234		d=20 D=36,6 H=3
12	Hex screw	51481	DIN 933	M 12x45
13	Washer	51650	DIN 125	A 13
14	Self-locking hex nut	51609	DIN 985	M 12
15	Hex screw	51463	DIN 933	M 10x30
16	Washer	51649	DIN 125	A 10,5
17	Self-locking hex nut	51608	DIN 985	M 10
18	Hex screw	51482	DIN 933	M 12x50
19	Cotter pin, single	51204	DIN 11024	4 mm galv.

Holzzuführung Rollbahn
für KS 700E / KS



Pos.	**Description** (KS 700 Holzzuführung Rollbahn)	Code No.	DIN	Dimensions
1	Infeed roller belt	27842		
2	Upper mounting plate	29985		
3	Lower mount	29988		
4	Infeed roller belt, coupling rod	29990		
5	Leg, upper part	27858		
6	Roller belt leg	27862		
7	Clevis pin for the leg	27864		
8	Cotter pin, single	51203	DIN 11024	3 mm galv.
9	Retaining rope	56901		l=150
10	Clevis joint, right hand thread	55079	DIN 71752	A 10x20-M10
11	Star knob	51015		D=50 M10x55
12	Hex nut	51594	DIN 934	M 10
13	Folding spring bolt	56542		10x20 M 10
14	Roller belt fulcrum	29991		
15	Roller axle	27867		
16	Adapter axle	27869		
17	Roller w. steel tube	56395		
18	Hex screw	51463		
19	Washer	51649	DIN 125	A 10,5
20	Self-locking hex nut	51608	DIN 985	M 10
21	Washer	51654	DIN 125	A 21
22	Spring washer	51234		d=20 D=36,6 H=3
23	Hex screw	51481	DIN 933	M 12x45
24	Washer	51650	DIN 125	A 13
25	Self-locking hex nut	51609	DIN 985	M 12
26	Hex screw	51482	DIN 933	M 12x50

14. EC STATEMENT OF CONFORMITY

to the EC Machines Directive No. 42/2006 and EMV 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 manufacturer's written approval.

Machine type:	**Crosscut Saw**
Models:	**Crosscut Saw 700E; Crosscut Saw 700H;** **Crosscut Saw KS 700Z** **Crosscut Saw 600** (230V) **; Crosscut Saw 600** (400V)
Production numbers:	from 2335 13 1 (KS 700E) 2336 13 1 (KS 700H) 2411 14 1 (KS 700Z) 2333 13 1 (KS 600, 230V) 2334 13 1 (KS 600, 400V)
Applicable European Standards::	EC Machine Directive 42/2006 European Low-Volt Directive nr. 95/2006 EC-EMC Directive 2004/108
Other harmonised Standards especially:	In order to assure full compliance to these European Standards, the following national codes , standard practices, and Technical Specifications have been implemented: DIN EN ISO 12100 ; EN ISO13857; EN 60204-1; EN 1870-6:2009; EN 847-1; EN 55014-1; EN 55014-2; EN 61000-3-2

Person responsible for the technical documents: Jörg Kernstock (Director)

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Nordhausen, 15.10.2014

Date

Jörg Kernstock (Director)

Official language in the country of use /English (Copy for customer's use)

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Subject to changes

Form: 2335.03.06.2013 - Rev. B
Form: 2336.03.06.2013 - Rev. B
Form: 2333.15.06.2013 - Rev. B
Form: 2334.03.06.2013 - Rev. B
Form: 2411.15.10.2014 - Rev. A