holzstar
Holzbearbeitungsmaschinen

Operating Instructions

Chop- and Mitre Saw

KGZ 210 E

KGZ 255 E

KGZ 210 E

KGZ 255 E

KGZ E-SERIES

Imprint

Product identification

Chop- and Mitre Saw	Item number
KGZ 210 E	5702210
KGZ 255 E	5702255

Manufacturer

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Information about the operating instructions

Genuine operating instructions

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Copyright information

Contents

1 Introduction

You have made an excellent choice in purchasing a HOLZSTAR Chop- and Mitre Saw.

Carefully read the operating instructions prior to commissioning.

They describe correct commissioning, intended use and safe as well as efficient operation and maintenance of your chop- and mitre saw.

The operating instructions form part of the wood band saw. Keep these operating instructions at the installation location of your chop- and mitre saw. Also observe the local accident prevention regulations and general safety regulations for the use of the chop- and mitre saw.

1.1 Copyright

1.2 Customer service

Please contact your specialist retailer if you have any questions regarding your chop- and mitre saw or require any technical information. Your specialist retailer will be happy to support you with specialist advice and information.

Germany:

Stürmer Maschinen GmbH
Dr.-Robert-Pfleger-Str. 26
D-96103 Hallstadt
Germany

Repair service:

Fax: 0049 (0) 951 96555-111
Email: service@stuermer-maschinen.de

Spare parts orders:
Fax: 0049 (0) 951 96555-119
Email: ersatzteile@stuermer-maschinen.de

We are always interested in valuable experience and knowledge gained from using the application, which then could be shared and be valuable to develop our products even further.

1.3 Disclaimer

All data in these operating instructions has been compiled on the basis of the state-of-the-art, valid standards and guidelines as well as our many years of expertise and experience.

The manufacturer shall not be liable for damage in the following cases:

- Non-observance of these operating instructions
- Unintended use
- Deployment of untrained staff
- Conversions at one's own responsibility
- Technical modifications
- Use of unauthorised spare parts

The actual scope of delivery may deviate from the descriptions and illustrations in this document as a result of special variants, optional extras or recent, technical modifications.

The obligations defined in the supply contract shall apply in addition to the general terms and conditions and the manufacturer's general terms and conditions as well as the statutory regulations valid at the time of the conclusion of the contract.

2 Safety

This section provides an overview of all important safety packages for personal protection as well as safe and reliable operation. The sections on individual service life phases contain additional, specifically applicable safety information.

2.1 Legend of Symbols

Safety Instructions

Safety instructions in these operating instructions have been highlighted with symbols. Safety instructions are indicated by signal terms that express the degree of risk involved.

DANGER!

This combination of symbol and signal term indicates a directly dangerous situation which may cause death or serious injury if not averted.

WARNING!

This combination of symbol and signal term indicates potentially hazardous situations which may cause death or serious injury if not averted.

ATTENTION!

This combination of symbol and signal term indicates a potentially hazardous situation which may cause minor or light injuries if it is not averted.

IMPORTANT!

This combination of symbol and signal term indicates a potentially dangerous situation which may cause material damage or harm the environment if it is not averted.

NOTE!

This combination of symbol and signal term indicates a potentially dangerous situation which may cause material damage or harm the environment if it is not averted.

Tips and recommendations

Tips and recommendations

This symbol highlights useful tips and recommendations as well as information for efficient and reliable operation.

Observe the safety information in these operating instructions to minimise the risk of personal injury as well as material damage and prevent hazardous situations.

2.2 Operator responsibility

Operators are defined as the persons who operate the machine for commercial or profit-based purposes or provide the machine to third parties for use or application and bear the legal product responsibility in terms of the protection of users, staff or third parties during operation.

Obligations of the operator:

If the machine is used for commercial purposes, operators are subject to the legal stipulations in terms of occupational safety. For this reason, the safety instructions in these operating instructions as well as the safety, accident prevention and environmental protection regulations valid at the installation location must be complied with. In this process, the following shall apply in particular:

- Operators shall obtain information about valid occupational safety regulations and determine additional hazards as part of a risk assessment which result from the specific operating conditions at the machine's installation location. Said risk assessment shall be reflected in operating instructions for machine operation.
- During the entire machine operating time operators must check whether the operating instructions they created meet current standards and adapt the operating instructions where necessary.
- Operators shall clearly manage and specify the responsibilities for installation, operation, troubleshooting, maintenance and cleaning.
- Operators must make sure that all persons handling the machine have read and understood these operating instructions. Operators must also regularly train staff and notify of the hazards.
- Operators shall provide staff with the required protective equipment and wearing the required protective equipment shall be mandatory.

Operators shall also be responsible for maintaining the machine in a technically perfect condition. For this reason, the following shall apply:

- Operators shall make sure that the maintenance intervals described in these operating instructions are complied with.
- Operators shall regularly check that the safety equipment is fully functional and complete.

2.3 Requirements to Staff

Qualifications

The different tasks described in these operating instructions require different levels of skills in terms of the qualifications of operating staff working with the machine.

WARNING!

Risk from inadequately qualified persons!

Inadequately qualified persons are unable to assess the risks when handling the chop- and mitre saw, thus putting themselves and others at risk of severe or fatal injuries.

- All work must be carried out by qualified persons only.
- Keep inadequately qualified persons away from the work area.

Exclusively persons of whom it can be expected that they reliably complete assigned tasks shall be authorised to carry out any tasks. Persons whose reactions have been impaired shall not be authorized, e.g. drug users, users under the influence of alcohol or medication.

These operating instructions specify the following personal qualifications for the following tasks:

Operating staff:

Operating staff has undergone an induction by the operator about the entrusted tasks and potential hazards resulting from improper behaviour. Operating staff shall exclusively be permitted to carry out any tasks beyond operation in normal mode if this has been specified in the operating instructions and operators have explicitly entrusted operating staff with the task.

Qualified electrician:

Due to the electrician's specialised training, know-how, experience and knowledge of pertinent standards and regulations the electrician is in a position to work on the electrical systems, and autonomously identify and avoid potential hazards.

Specialist staff:

As a result of specialist training, expertise, experience and skills in terms of the relevant standards and regulations, specialist staff is able to complete the tasks they are entrusted with and independently identify hazards and avert risks.

Manufacturer

Certain work must be carried out by manufacturer specialist staff only. Other staff is not permitted to carry out this work. Contact our customer service to have the work carried out.

2.4 Personal Protective Equipment

Personal protective equipment is intended to protect the health and safety of persons at work. Staff must wear the personal protective equipment indicated in individual sections of these operating instructions when carrying out the different tasks on the machine.

The personal protective equipment is described in the following section:

Hearing protection

Hearing protection protects against hearing damage caused by noise.

Head protection

Hearing protection protects against hearing damage caused by noise. The industrial helmet protects the head against falling objects and bumping into stationary objects.

Protective eyewear

Protective goggles are intended to protect the eyes from flying parts

Protective gloves

Protective gloves are intended to protect the hands from components with sharp objects as well as friction, abrasion, and deep-cut injuries.

Safety boots

Safety shoes protect feet from pinching, falling parts and slipping on slippery surfaces.

Protective clothing

Protective clothing is tight-fitting work clothing without protruding parts, usually with a low tear resistance.

2.5 Safety Labels on the Chop- and Mitre Saw

The following safety labels identifications are attached to the chop- and mitre saw (Fig. 1) and must be observed.

Fig. 1: Safety labels:1 General mandatory sign | 2 Read operating instructions | 3 Use eye protection I 4 Disconnect mains plug I 5 Warning of electrical shock | 6 Use ear protection | 7 Use protective gloves I 8 SUse safety boots I 9 Warning of laser beam 10 Warning of danger due to rotating saw blade

If safety labels on the machine are damaged or missing, this can cause errors, personal injury and material damage. The safety symbols attached to the machine must not be removed. Damaged safety symbols must be replaced immediately.

As soon as the signs are not clearly visible and comprehensible at first glance, the machine must be stopped until new signs have been attached.

2.6 Safety Warnings for Lasers

The chop- and mitre saw has a built-in laser light. The laser is CLASS IIIa. These lasers do not normally present an optical hazard. However, DO NOT stare at the beam, as this can cause flash blindness.

- **Do not remove or deface any product labels.** Removing product labels increases the risk of exposure to laser radiation.
- **The laser beam can be harmful to the eyes.** Always avoid direct expose to eyes. Do not project the laser beam directly into the eyes or at any object other than the work piece.
- Do not look directly into the laser-beam-output aperture during operation.
- **Turn the laser on only when making cuts**. The laser on the mitre saw is not a toy. Always keep it out of the reach of children. The laser light emitted from this device should never be directed toward any person for any reason.
- **Always turn the laser beam off when it is not in use.** Leaving the tool on increases the risk of someone inadvertently staring into the laser's beam.
- Make sure that the laser beam is aimed at a work piece (such as wood or a rough-coated surface) that does not have a reflective surface.
- **Do not use the chop- and mitre saw on materials that have shiny, reflective surfaces, such as sheet metal.** The reflective surface could reflect the beam back at the operator. Be aware that laser light reflected off of a mirror or any other reflective surfaces can also be dangerous.
- Always wear laser protective eyewear when working on or near reflective surfaces.
- Do not attempt to activate the laser when the tool housing is removed
- The laser is activated by means of a button switch that is independent of the main switch for the saw.
- **Do not replace the laser light assembly with a different one.** Any repairs must be carried out by the laser manufacturer or an authorized service agent.
- Do not attempt to repair the laser guide by yourself.
- Do not attempt to change any parts of the laser guide.

2.7 General Safety Instruction for the Electrical Tools

WARNING!

Read all safety instructions, pictures, illustrations, and technical data that accompany this electricaltool.

Failure to follow the instructions below may result in electric shock, fire and/or serious injury.

All safety instructions and instructions should be kept for the future.

1 Workplace safety

a) **Keep your work area clean and well-lighted.** Disorder and poorly lit work areas can lead to serious injury.

b) **Do not use the power tool in potentially explosive atmospheres containing flammable liquids, gases or dusts.** Electrical tools produce sparks that can ignite the dust or gases.

c) **Keep children and other persons away while using the electrical tool.**
If you are distracted, you may lose control of the tool.

2 Electrical safety

a) **The connector plug of the power tool must fit into the socket. The plug must not be changed in any way. Do not use adapter plugs together with earthed power tools.** Unchanged plugs and suitable sockets reduce the risk of electric shock.

b) **Avoid direct body contact with grounded surfaces such as pipes, heaters, stoves and refrigerators.** There is an increased risk of electric shock if your body is grounded.

c) **Keep power tools away from rain or humidity**. Entering of water into a electrical tool increases the risk of electric shock.

d) **Do not misuse the connecting cable to carry or hang the power tool or to pull the plug out of the socket.** Keep the connecting cable away from heat, oil, sharp edges, or moving parts. Damaged or entangled connecting wires increase the risk of electric shock.

e) **If you are working with a electrical tool outdoors, only use extension cords that are pecifically constructed for outdoor use.** The use of an extension cable specifically constructed for outdoor use reduces the risk of electric shock.

f) **If operation of the electrical tool in a humid environment is unavoidable, use a residual current circuit breaker.** The use of a residual current circuit breaker reduces the risk of electric shock.

3 Safety of the person

a) **Be careful, consider what you're doing, and you go to work with a power tool with common sense. Do not use a electrical tool if you are tired or under the influence of drugs, alcohol or medication.** A second of inattention while using the electrical tool can lead to serious injury.

b) **Wear personal protective equipment and safety goggles at all times.**
Wearing personal protective equipment such as a dust mask, non-slip safety shoes, safety helmet or ear protection, depending on the type and use of the electrical tool, will reduce the risk of injury.

c) **Reduce the risk of accidental operation. Make sure the electrical tool is turned off before connecting, picking up or carrying it to the power supply and/or battery.** If you have your finger on the switch when carrying the electrical tool or connect the electrical tool to the power supply switched on, this may result in injury.

d) **Remove adjusting keys and wrenches.** A tool or key located in a rotating part of the power tool may cause injury.

e) **Ensure that you avoid abnormal posture. Make sure that you stand securely and keep your balance at all times.** This will allow you to better control the power tool in unexpected situations.

f) **Wear appropriate clothing. Do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts.** Loose clothing, jewellery or long hair may be caught by moving parts.

g) **If dust extraction and collection equipment can be used, it must be connected and used correctly.** The use of a dust extractor may reduce the risk of dust.

h) **Do not weigh yourself in false safety and do not overstep the safety rules for power tools, even if you are familiar with the electrical tool after many uses.** Careless action can lead to serious injuries within fractions of a second.

4 Use and handling of the electrical tool

a) Do not overload electric tools. Use the right electric tool for your work. With the right tool, you work better and more secure in the specified power range.

b) Do not use the electric tool with a defective switch. A electric tool that cannot be switched on or off is dangerous and must be repaired.

c) **Disconnect the plug from the power outlet and/or remove a detachable battery before adjusting the unit, changing insert tool parts or putting the power tool away.** This precaution prevents the power tool from accidentally starting.

d) **Store unused electrical tools out of the reach of children. Do not allow anyone to use the electrical tool who is not familiar with it or who has not read these instructions.** Power tools are dangerous if used by unauthorized persons.

e) **Maintain the electrical tools and applied tools with the care. Check that moving parts function correctly and do not jam, that parts are broken or damaged in such a way that the function of the electrical tool is reduced. Have damaged parts repaired before using the electrical tool.** Many injuries are caused by poorly maintained power tools.

f) **Hold cutting tools sharp and clean.** Carefully maintained cutting tools with sharp cutting edge are easier to operate.

g) **Maintain the electrical tools and applied tools etc. according to these instructions. Take into account the working conditions and the activity to be performed.** The use of the electrical tools for applications other than those intended can lead to the dangerous situations.

h) **Keep the handles and handle surfaces dry, clean and free of oil and grease.** A slippery grip does not allow safe operation and control of the electrical tool in unforeseen situations.

5 Service

a) **Have repaired the electrical tool only by the qualified personnel and use only original spare parts.** This will ensure the safety of the electrical tool

b) If it is necessary to replace the power cord, it must be done by the manufacturer or its representative to avoid a safety hazard.

Battery Tool Use and Care

a) **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury or fire.

c) **When Battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal object that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.

d) **User abusive conditions, liquid may be ejected from the battery. Avoid contact.** If contact accidentally occurs, flush with copious amounts of water. If liquid contacts eyes, seek medical help immediately. Liquid ejected from the batter may cause irritation or burns.

2.8 General Safety Rules

NOTE!

Read these instructions completely before operating your device. Keep these instructions for future use.

WARNING!

When using electrical tools, basic safety precautions must always be taken to prevent the risk of fire, electric shock and dangerous bodily injury.

1. **Protection from the electrical shock.** Do not touch the grounded surfaces.

2. **Storage of the unused tool**. Keep tools that are not in use in a dry, enclosed place and out of the reach of children.

3. **Do not overload the electrical cable.** Never pull on the cable to pull the plug out of the socket. Keep the cable away from heat, oil and sharp edges

4. **Secure the workpiece**. If possible, hold the workpiece with clamps or a vice. This is safer than holding it by hand.

5. **Maintain the tools carefully**. Follow the instructions for lubricating and replacing accessories.

6. **Remove adjustment wrench and screw wrench**. Make sure that the adjustment and screw wrench are removed from the tool before switching on.

7. **Prevent the unintentional starting.** Make sure that the switch is in the "off" position when plugged in.

8. **Use an extension cord for outdoor use.** If the tool is used outdoors, use only extension cords that are marked for outdoor use.

WARNING!

Use of any accessories other than those recommended in this manual may result in personal injury.

2.9 Additional Safety Rules for the Chop- and Mitre Saw

1. This saw is designed for using on wood and wood-like products.

2. Select saw blades in relation to the material to be cut and only use blades that are recommended in this instruction.

3. Do not use HSS (High Speed Steel) blades! Damaged, warped or deformed blades should not be used.

4. Operate the saw only then if the protective devices have been fixed in the correct position. The saw must be in good working order and properly maintained.

5. Replace the stage plate if it is defective.

6. Do not use damaged, bent or deformed saw blades.

7. Only use saw blades from the manufacturer and if they comply with the EN 847-1 standard.

8. Connect chop- and mitre saw to a vacuum cleaner during sawing.

9. Check the maximum depth of the cut.

10. If you want to saw long workpieces, always use a support to ensure a stable hold. In addition, fasten the workpiece with a quick clamping device.

11. Wear suitable personal protective equipment when necessary, this could include:

    - hearing protection to reduce the risk of induced hearing loss;
    - eye protection;
    - respiratory protection to reduce the risk of inhalation of harmful dust;
    - gloves for handling saw blades (saw blades shall be carried in a holder wherever practicable) and rough material.

WARNING!

- Ensure that the arm is securely fixed when beveling;
- Keep the floor area around the machine level, well maintained and free of loose materials e.g. chips and cut-offs;
- Use correctly sharpened saw blades;
- Observe the maximum speed marked on the saw blade;
- When equipped with a laser: the laser fitted onto this mitre saw is only designed for this saw. The fitting of any external, additional or different type of laser is not permitted. Repairs should only be carried out by authorised repair agents.
- Please never removing any cut-offs or other parts of the workpiece from the cutting area while the machine is running and the cutting head is not in the rest position;
- Ensure that the machine is always fixed to a bench, whenever possible.

WARNING!

This saw is designed for using on wood and wood-like products. Never cut metals or masonry products with this tool.

WARNING!

Do not come in contact with the upper saw arm!

12. The operator must be adequately trained in the operation of the chop- and mitre saw and their components.

13. Make sure there is adequate lighting provision for your work area.

14. If the chop- and mitre saw is equipped with a laser, only use a laser from the manufacturer if a replacement is necessary. Repairs to the laser should only be carried out by the manufacturer or by authorized persons

15. Wait until the machine has stopped completely and the cutting head is in its rest position before removing parts or chips from the machine.

16. Never stand on this tool as damage to saw or serious injuries could result.

17. Never use the mitre saw near flammable liquids, vapors, or gases.

18. Remove all nails that may be in the workpiece to prevent sparking that could cause a fire.

19. To avoid fire or toxic reaction, never use gasoline, naphtha acetone, lacquer thinner or similar highly volatile solvents to clean the mitre saw.

20. Hold the saw on a bench with a good and safe loadbearing surface to minimize noise and vibration.

21. Only use the handle provided for this purpose to carry the saw. Disconnect the saw from the power supply beforehand and secure the cutting head in the locked position.

22. If the power cord is damaged, it must be replaced by the manufacturer, its service department or similarly qualified persons to avoid danger.

23. Allow the saw blade to reach full speed before starting to cut.

24. Do not use damaged or worn saw blades.

25. Make sure that the directional arrow marked on the blade corresponds with the rotational direction of motor.

26. Ensure that the movable guards operate freely without jamming. Never lock the protective equipment when it is open.

27. Never cut pieces that are too small to be held securely against the straight guide. Leave enough space for the hand to be at a safe distance from the saw blade.

28. Regularly check the saw blade locking screw.

29. Do not operate the machine if any part of the housing is missing or damaged.

30. Do not start the machine when the saw blade is inserted into the workpiece.

31. Allow the saw blade to come to a complete stop before removing the jammed or unsawn material from the area of the saw blades. Do not attempt to stop the saw blade by applying lateral pressure to the saw blade disc.

32. Before cutting, allow the saw blade to run freely for a few seconds. If it makes an unfamiliar noise or vibration, turn it off immediately and disconnect it from the power supply.

33. Ensure that all fuse clamps are tight and check for excessive play.

34. Never attempt to cut freehand. Always make sure that the workpiece is pressed securely against the straight guide and the table support.

35. Disconnect the mains plug, pull the handle of the saw downwards. Rotate the saw blade using the hand with the saw blade in its lowest position, to ensure that it is free of obstacles. Repeat this procedure for all maximum mitre and tilt positions before you start using the of the work to begin.

36. Make sure that the workpiece to be cut has sufficient space to move sideways. Otherwise, it may lead to a cutting off of the of the saw blade.

37. Make sure that any irregular or round workpiece to be cut has enough space to move or rotate so that it cannot pinch the saw blade.

38. Keep your hands away from the cutting area during operation.

39. Always make sure that the protective device is operational before use. If the protective hood does not close quickly over the saw blade, do not use it.

40 Do not jam the protective device. Only work with fully functional protective devices.

41. Use a residual current switch on all 230-240V electrical tools. This can help minimize the risk of electric shock if an earth fault or short circuit occurs.

42.When using an extension cord, make sure that the cord is fully unwound and that its length is less than 30 meters. Lengths greater than 30 m affect tool performance due to voltage drops.

43.Always stand on one side when operating the saw.

44. If the table insert is damaged or worn, have it replaced by an authorized service center.

45.Cloths, cloths, cords and threads and similar items should never be left in the work area.

46.Keep the floor free of loose material such as chips and cuttings.

47.When cutting long pieces that extend far beyond the width of the table, ensure that the ends are sufficiently supported at the same height as the saw table top. Supports should be positioned so that the workpiece does not fall to the floor.

48.Dust from materials such as lead-containing coatings, some types of wood, minerals and metals can be harmful to health and cause allergic reactions which can lead to respiratory infections and/or cancer. Materials containing asbestos may only be processed by specialists. Observe the relevant regulations for the materials to be processed in your country.

49.Avoid accumulation of dust at the workplace. Dust can easily ignite.

50.Never stand on the electrical tool. Serious injury may occur if the electrical tool tips over or accidentally comes into contact with the saw blade.

51.Never remove cutting debris, wood chips etc. from the sawing area while the machine is running. Always return the tool arm to its neutral position first and then switch off the machine.

52.Only guide the saw blade against the workpiece when the machine is switched on. Otherwise, the kickback will be caused if the saw blade becomes wedged in the workpiece.

53 Keep the handles dry, clean and free of oil and grease. Greasy, oily handles are slippery and lead to loss of control.

54.Only operate the electrical tool if the working area to the workpiece is free of setting tools, wood chips, etc. Small pieces of wood or other objects coming into contact with the rotating saw blade can hit the operator at high speed.

55.Keep the floor free of wood shavings and material residues. You may slip or stumble.

56.Always clamp the part to be machined firmly. Do not saw workpieces that are too small to clamp. Otherwise the distance between your hand and the rotating saw blade will be too small.

57.Use the machine only for cutting the materials listed under the intended use. Otherwise the machine may be overloaded.

58.If the saw blade becomes jammed, switch off the machine and hold the workpiece until the saw blade has come to a complete stop. In order to prevent kickback, the workpiece must not be moved until the machine has come to a complete standstill. Eliminate the cause of jamming of the saw blade before restarting the machine.

59.Do not use blunt, cracked, bent or damaged saw blades. Unsharpened or improperly adjusted saw blades will produce a narrow kerf, resulting in excessive friction, blade lock and kickback.

60.Always use saw blades with the correct size and shape of the hole. Saw blades that do not match the saw's fasteners will run eccentrically, losing control.

61.Do not touch the saw blade after working until it has cooled down. The saw blade becomes very hot when you are working.

62.Never operate the machine without the insert plate. Replace a defective insert plate. Without proper insertion plates, injuries from the saw blade are possible.

63.Never leave the machine unattended before it has come to a standstill. Cutting tools that are still running can cause injury.

3 Intended Use

This chop- and mitre saw is intended for cutting wood and analogue materials, it is suitable for straight and curved cuts having Mitre angles of up to 45°. The saw is not designed for cutting firewood. Do not use machines, tools and accessories for additional applications (see manufacturer’s instructions) for works other than those for which they are designed for. All other applications are expressly ruled out.

WARNING!

Danger in case of misuse!

- Never cut the several workpieces at the same time.

WARNING!

Danger in case of misuse!

A misuse of the machine can result in dangerous situations.

- Only operate the chop- and mitre saw in the power range given in the technical specifications.
- Never pypass or override the safety devices
- Never work up other materials that do not correspond to those which are required for the intended use.
- Only operate the chop- and mitre saw in a technical flawless status.

Proper use also includes compliance with all information in this manual.

For structural and technical changes to the chop- and mitre saw the company Stürmer Maschinen GmbH assumes no liability Claims of any kind due to damage due to improper use are excluded

Not intended use

Not intended use may result in fire, electric shock and personal injury.

The provisions contained in this warranty are not intended to limit, modify, void, refuse or exclude any implied warranties set forth in applicable state or federal laws.

Residual risks

Even if you use this electric tool as intended, certain residual risks cannot be excluded. The following hazards may occur in connection with the design and construction of this equipment:

1. Lung damage if a suitable dust mask is not used.
2. Damage to hearing if suitable hearing protection is not used.
3. Damage to health caused by hand-arm vibration when the device is used for an extended period of time or is not properly guided and maintained.

WARNING!

This product generates an electromagnetic field during operation! This field may interfere with active or passive medical implants!

To reduce the risk of serious or fatal injury, we recommend that individuals with medical implants consult their physician and the manufacturer of the medical implant before using this product!

4 Technical Data

4.1 Table

Model	KGZ 210 E	KGZ 255 E
Length (Product) [mm]	650	900
Width / Depth (Product) [mm]	450	550
Height (Product) [mm]	430	430
Weight (Netto) [kg]	10,5	17
Motor output [W]	1500	1800
Electrical connection [V]	230	230
Ø Suction socket [mm]	32,5	36
Current type	AC	AC
Mains frequently [Hz]	50	50
Connecting cable length [m]	2	2
Saw blade speed [rpm]	4500	5000
Diameter of saw blade [mm]	210	255
Cutting capacity for angle/mitre (height x width) [mm]		
at 0° bevel / 0° mitre	220*70	315*90
at -45° bevel / 0° mitre	155*70	215*90
at +45° bevel / 0° mitre	155*70	215*90
at 0° bevel / -45° mitre	220*35	315*40
at -45° bevel / -45° mitre	155*35	215*40
at +45° bevel / +45° mitre	155*35	215*40
Sound pressure level [db (A)]	93,6	94,7
Sound power level [db (A)]	106,6	107,7
Vibration emissions [m/s²]	4,58	

The stated total vibration value has been measured according to one standard test method and can be used to compare one tool with another.The stated total vibration value can also be used as a preliminary assessment of the load.The vibration emission of the power tool during actual use may differ from the specified peak value. This depends on the way the tool is used.

Avoid of the vibration risk:

1) Use protective gloves during the operation

2) Limit operation time and shorten the trigger time

Noise information

Wear hearing protection!

Measured sound values determined according to EN 62841-1.

The stated noise figures are emission values and not always safe working levels.

While there is a correlation between emission and exposure levels, it can not be reliably used to determine if further precautions are needed.

Factors that influence the actual exposure of the workforce include the characteristics of the workspace, the other sources of noise, and soon, i. the number of machines and other adjacent processes and the length of time an operator is exposed to the noise.

The permissible exposure level may also vary from country to country. However, this information will allow the user of the machine to better assess the hazard and risk.

Vibration and noise reduction

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.

Take the following points into account to minimize the vibration and noise exposure risks:

1. Only use the product as intended by its design and these instructions.

2. Ensure that the product is in good condition and well maintained.

3. Use correct application tools for the product and ensure they in good condition.

4. Keep tight grip on the handles/grip surface.

5. Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).

6. Plan your work schedule to spread any high vibration tool use across a number of days

4.2 Type Plate KGZ 210 E

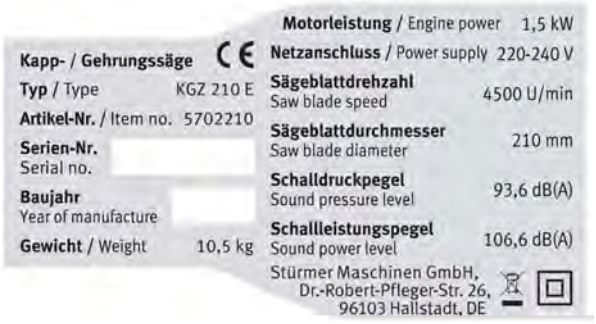

Fig. 2: Type plate KGZ 210 E

5 Transport, Packaging and Storage

5.1 Delivery and Transport

Delivery

After delivery, check the chop- and mitre saw for visible transport damage. If you discover any damage to the cross-cut and mitre saw, report it immediately to the transport company or dealer.

Transport

CAUTION!

Injuries caused by parts falling over or off a forklift, pallet truck or transport vehicle.

Only use means of transport that can carry the total weight and are suitable for it.

Improper transport of individual devices, unsecured devices stacked on top of each other or next to each other in packed or already unpacked condition is accident-prone and can cause damage or malfunctions for which we do not grant any liability or guarantee.

Transport the scope of delivery secured against shifting or tilting with a sufficiently dimensioned industrial truck to the installation site.

General risks during internal transport

CAUTION: DANGER OF TIPPING!

The device may be lifted unsecured by a maximum of 2cm.

Employees must be outside the danger zone, the reach of loads. Warn employees and, if necessary, advise employees of the hazard.

Devices may only be transported by authorized and qualified persons. Act responsibly during transport and always consider the consequences. Refrain from daring and risky actions.

Gradients and descents (e.g. driveways, ramps and the like) are particularly dangerous. If such passages are unavoidable, special caution is required.

Before starting the transport check the transport route for possible danger points, unevenness and disturbances as well as for sufficient strength and load capacity.

Danger points, unevenness and disturbance points must be inspected before transport. The removal of danger spots, disturbances and unevenness at the time of transport by other employees leads to considerable dangers.

Careful planning of internal transport is therefore essential.

CAUTION!

When transporting the saw with vehicles, there is a risk of injury and damage to property due to inadequate or missing transport safety devices for the saw! Before starting the journey, make sure that the transport securing device is correct and safe.

Transport position model KGZ Series

The saw is transported or stored with lowered saw head. To create the transport or storage position, perform the following steps:

Step 1: Turn off the saw and remove the plug from the socket. Clean the saw with a sawdust brush.

Step 2: Disassemble the support aids. The turntable lock button, chamfer lock button and slide lock must be tightened.

Step 3: Swing the tool arm on the handle (1) to the saw table (5) until it reaches it.

Step 4: Turn the locking pin (21) by 90 ° and press it in to secure.

Step 5: Remove the saw from the mounting pad by removing the 4 screws in the saw feet.

When transporting the saw with fixed positions, make sure that the saw head is locked in the lower position. Lift the saw only on the operating handle (3) or on the outer castings. Do not lift the saw with the guards.

To lock the saw head in the lower position. Press the saw blade down and pull out the release button (2). Turn the knob to lock the saw head. The head is locked in the lower position.

The tool arm is now securely locked for transport. Please note that if the cutting depth is adjusted, the locking pin may not work. Release the cutting depth limiter and then lock the cutting head. The saw should never be used with the release button securing the head down.

Transport lock Model KGZ 255 E

The locking pin (22) allows easier handling of the machine during transport to various work locations.

Model KGZ 255 E

Before you can transport the power tool, the following steps must be taken:

Step 1: Bring the machine to the transport position.

Step 2: Remove all accessories that can not be firmly connected to the power tool. Press the release button (28) to secure the machine upside down and with the pin (21). The saw is now locked in its composition.

Step 3: If possible, put unused saw blades in a closed container for transport.

Step 4: Wear the machine only on the base (11) or on the carrying handle.

Note the dimensions of the saw. The power tool should always be worn by two people to prevent back injury. When transporting the power tool, only use the transport devices and never the protective devices.

5.2 Packaging

All of the machine‘s packaging materials and packing aids are suitable for recycling and must always be disposed of using material-based recycling systems.

Packaging materials made of cardboard must be shredded and disposed of as part of waste paper recycling.

The foils are made of polyethylene (PE), padding is made of polystyrene (PS). Dispose of these substances at a recycling centre or hand them over to the relevant waste disposal company.

5.3 Storage

Store the chop- and mitre saw thoroughly cleaned in a dry, clean and frost-free environment. Cover the machine with a protective plane.

6 Description of the Device

Illustrations in these operating instructions may deviate from the original.

Model KGZ 210 E

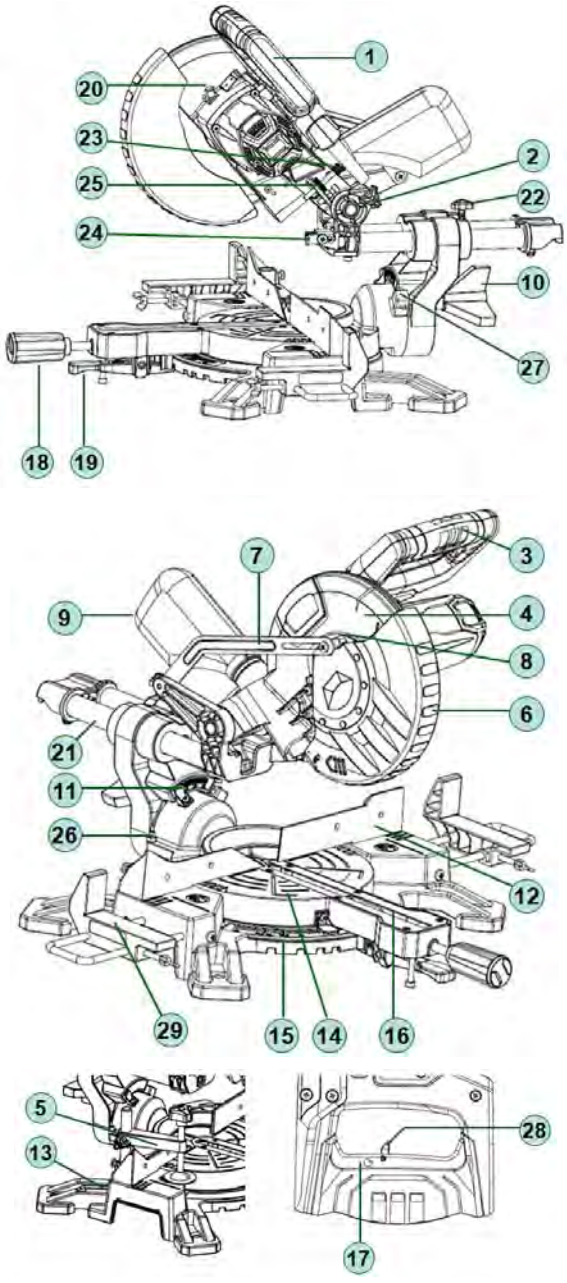

Fig. 3: Chop- and Mitre Saw KGZ 210 E

1. Saw arm
2. Release knob
3. Operating handle
4. Upper fixed blade guard
5. “G” Clamp
6. Rotating blade guard
7. Guard retraction arm
8. Blade bolt cover
9. Dust bag
10. Tilt angle lock
11. Tilt angle scale
12. Fence
13. 6 mm. Hex key
14. Mitre table
15. Mitre scale
16. Table insert
17. Shutter switch
18. Mitre lock knob
19. Mitre latch
20. Spindle lock
21. Slide bars
22. Slide lock
23. Trenching depth adjustment screw
24. Trenching stop
25. Trenching depth lock nut
26. 45° Bevel adjustment screw
27. 0° Bevel adjustment screw
28. Release latch
29. Table extension

Model KGZ 255 E

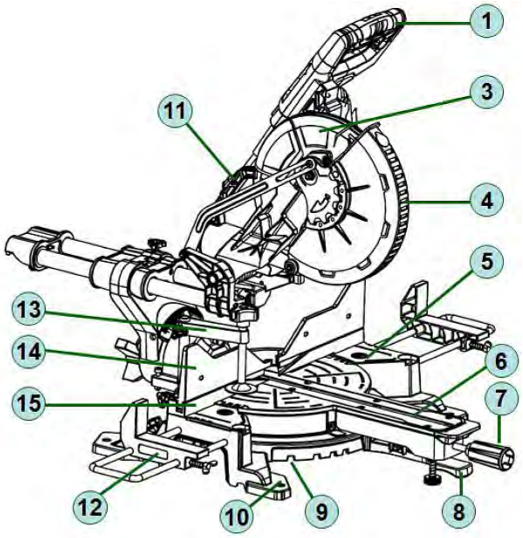

Fig. 4: Chop- and Mitre Saw KGZ 255 E

1. Switch handle
2. On / off switch
3. Upper blade protection
4. Lower protective hood
5. Base
6. Table insert

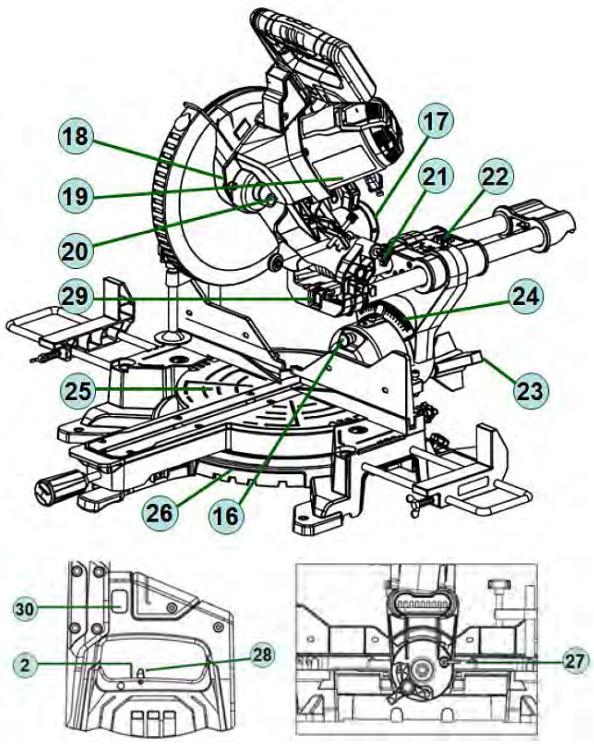

Fig. 5: Chop- and Mitre Saw KGZ 255 E

7. Miter handle
8. Miter lock lever
9. Miter stop
10. mounting hole
11. Handle for transport
12. Extension wing
13. Quick clamp
14.Upper fence
15. Lower fence
16. 0 ° stop pin
17. Dust bag connection
18. Saw blade
19. Engine
20. Spindle lock
21. Locking pin
22. Locking knob for the sliding carriage
23. Tilt lock button
24. Inclination scale
25. Table
26. Miter scale
27. Hex key
28. Locking lever
29. Laser
30. ON / OFF switch for laser

6.1 Scope of Delivery

The chop- and mitre saws KGZ 210 E und KGZ 255 E are supplied with the following parts:

- Saw blade (mounted)
- Screw clamp
- Dust bag
- Operating Instruction

7 Setting up and Installation

WARNING!

To avoid accidental starting, which could result in serious injury, ALWAYS assemble all parts before connecting the device to the electrical outlet.

The saw should NEVER be connected to a power supply when you are adding parts, adjusting, installing or removing saw blades, or when not in use.

Make sure the power supply matches the voltage indicated on the rating plate. Disconnect the power plug before performing any adjustments or maintenance.

7.1 Set up the Chop- and Mitre Saw

7.1.1 Dust/Chip Extraction

Dust from materials such as lead-containing coatings, some types of wood, minerals and metal can be harmful to your health. Touching or inhaling the dusts may cause allergic reactions and / or lead to respiratory infections of the user or other persons. Certain dusts, such as oak or beech dust, are considered carcinogenic, especially in connection with wood treatment additives.

(Chromate, wood preservative). Asbestos-containing materials may only be processed by professionals

Always use a dust collector or the provided dust bag (17).

It is recommended to wear a P2 class respirator. In your country, observe the relevant regulations for the materials to be processed.

The dust / chips extraction can be blocked by dust, chips or workpiece fragments:

- Switch off the device and unplug the power cord from the power socket.
- Wait until the saw blade has come to a complete stop.
- Determine the cause of the blockage and correct it.

Model KGZ 210 E

Reducing the accumulation of sawdust and ensuring maximum cutting efficiency can be achieved by clipping a dustbag to the dust extraction system. A dust bag is intended for use on your miter saw. To install it, simply insert the dust bag over the suction opening on the upper blade guard.

To empty the dust bag, remove it from the dust extraction system. Empty the dust bag by opening the zipper.

NOTE!

To ensure optimal dust collecting, empty the dust bag when it becomes filled to approximately 2/3 of its capacity.

Dust extraction system Model KGZ 255 E

The saw is equipped with a dust bag for sawdust and shavings. Slide the dust bag along the transport handle (11) onto the plug. The dust bag can be emptied using a zipper on the ground.

The dust bag can be removed to connect the suction hoses of the dust extractor (wet and dry vacuum / suction system). The suction system is then connected to the same position. (Suction hose / exhaust system is not included).

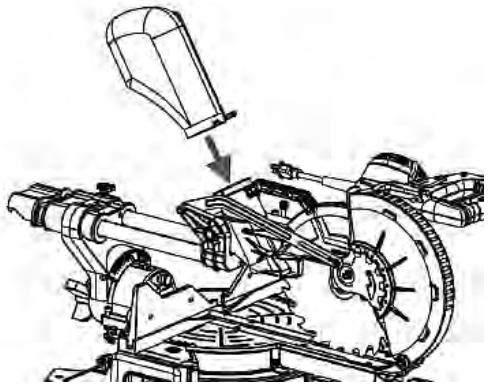

Fig. 6: Dust bag on the model KGZ 255 E

7.1.2 Fastening possibility

Mounting holes Model KGZ 210 E

Before use, the chop- and mitre saw can be fixed to a firm, level surface with the 4 mounting bolts (not supplied).

Four holes are provided in the base of the saw to enable it to be fixed to a bench, or other supporting surface.

To mount the saw, process as follows:

1. Locate and mark where the saw is to be mounted.
2. Drill 4 holes through the surface.
3. Place the chop- and mitre saw on the surface aligning holes in base when holes drilled in the surface. Install holes, washers and nuts.

CAUTION!

Make sure that the mounting surface is not warped as an uneven surface can cause binding and inaccurate sawing.

Workpiece clamping model KGZ 210 E

When cutting workpieces, the boards should always be clamped with a "G" clamp (supplied).

Table extension model KGZ 210 E

Attach the long workpieces to support them

Table extension and adjust the length to the size of the workpiece to be machined. Then tighten the screw of the table extension.

Assembly of the Model KGZ 255 E

Prevent unintentional starting. The mains plug must not be connected to the mains supply during installation or any work on the machine.

Remove all parts supplied from the packaging carefully.

Remove all packaging material from the machine and the accessories supplied.

Before using the machine for the first time, check that all parts listed in the "Scope of delivery" section have been delivered.

NOTE!

Check the chop- and mitre saw for possible damage.

Before using the machine, check that all guards are fully functional.

Parts that are slightly damaged must be carefully inspected to ensure proper operation of the tool.

Defective guards and parts must be replaced immediately by an authorised service centre.

All parts must be properly assembled and all conditions must be met to ensure correct operation.

KGZ 255 E

Always tighten the locking knobs (7) and (23) before starting to saw them. Otherwise, the saw blade can become wedged in the workpiece.

Stationary or flexible Mounting of the Model KGZ 255 E

To ensure safe handling, the machine must be mounted on a level and stable surface (e.g. workbench) prior to using.

Mounting to a Working Surface (Model KGZ 255 E)

1. Attach the power tool to the work surface with suitable screws. The mounting holes (10) serve.

2. Clamp the power tool with commercially available screw clamps by the feet to the working surface.

Mounting to a Saw Stand (Model KGZ 255 E)

Any universal saw stand which will accept mounting holes 450 mm. wide by 340 mm. in length will suffice.

Read all safety warnings and instructions included with the worktable. Failure of observing safety warnings and instructions can lead to electrical shock, fire and/or cause serious injuries.

Assemble the worktable properly before mounting the chop- and mitre saw. Perfect assembly is important in order to prevent the risk of collapsing.

- Mount the chop- and mitre sawl in transport position on the saw stand.

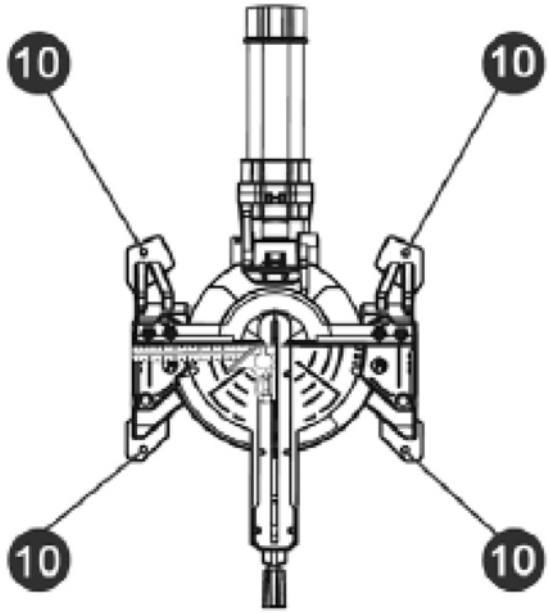

Fig. 7: Mounting holes, Model KGZ 255 E

7.2 Electrical Connection

DANGER!

Risk of death due to electric shock!

Contact with live components may result in fatal injury. Switched-on electrical components can make uncontrolled movements and lead to serious injuries.

Please make sure that the power connection has the same characteristics (voltage, mains frequency, phase position) as the motor. The information can be found on the nameplate.

Step 1: Check that the cross-cut and mitre saw is switched off.

Step 2: Connect the saw to the mains.

Use of an Extension Cable on the Model KGZ 255 E

If an extension cord is required, use an approved three-wire extension cord suitable for powering the tool.

Grounded tools always require a three-core extension cord.If the distance from the power outlet increases, you must use a larger diameter extension cord. Using extension cords with inadequately sized cords will result in a large voltage drop, resulting in a power failure and possible damage to the equipment.The smaller the track number of the wire, the greater the capacity of the cable. When using a cable drum, always unwind the cable completely.

8 Operation the Chop- and Mitre Saw

DANGER!

Risk of death due to electric shock!

Contact with live components may result in fatal injury. Switched-on electrical components can make uncontrolled movements and lead to serious injuries.

- Disconnect the mains plug before starting any adjustments to the chop- and mitre saw

WARNING!

Danger of life!

Failure to observe the following rules entails a risk of injury for the operator and other persons.

- The chop- and mitre saw must be operated by one trained and experienced person only.
- The operator must not work under the influence of drugs, alcohol or medication.
- The operator must not work in case of tiredness or if suffering from an illness that impairs concentration.
- The chop- and mitre saw must be operated by one person only. Additional persons must keep out of the work area during operation.
- In the case of a malfunction, switch off the saw and disconnect it from the power supply. If necessary, have it repaired by a qualified technician.

ATTENTION!

Risk of crushing!

Improper work on the machine may result in injury to the upper limbs.

Wear hearing protection!

Use protective goggles!

Wear safety boots!

Wear protective clothes!

For all cuts, make sure that the saw blade does not come into contact with the stop, the screw clamps or other machine parts at any time. Remove any mounted help stops or adjust them accordingly.

Protect the saw blade from shocks and damage. Do not subject the saw blade to lateral pressure.

Do not saw shaped or bent workpieces. The workpiece must always have a straight edge against the stop.

Long workpieces must be placed or supported at their free end.

Position of the Operator

Do not stand in a line with the saw blade in front of the machine. Always stand aside of the saw blade.

This protects your body against possible kickback.

Keep hands, fingers and arms away from the rotating saw blade. Observe the following instructions:

Hold the work piece securely with both hands and press it firmly against the saw table.

When sawing narrow work pieces and bevel angles, always use the supplied hold-down stick.

Adjusting the Cutting Angle (Model KGZ 255 E)

In order to ensure precise cuts, the basic setting of the machine must be checked after extensive use and adjusted if necessary.

Always tighten the locking knobs (7) and (23) before sawing. Otherwise, the saw blade may become wedged in the workpiece.

Switching On the Chop- and Mitre Saw KGZ 255 E

To start the machine, press the ON/OFF switch (Pos. 2) and keep it pressed.

NOTE!

For safety reasons, the ON/OFF switch (Pos. 2) cannot be locked; it must remain pressed during the entire operation.

Switching Off the Chop- and Mitre Saw KGZ 255 E

To switch off the machine, release the ON/OFF switch (Pos. 2).

Release Knob (Model KGZ 210 E)

When boxed or during storage, transportation, the saw head is locked in the down position.

Step 1: To get the head operational, slide the release (28) towards the handle.

Step 2: Press the saw arm down and pull out the release button (2).

Step 3: Turn the knob to unlock the saw head. The head is gently raised to the upper position.

ATTENTION!

The saw must never be used when the head is locked over the lock button.

8.1 Adjustment Options on the Model KGZ 210 E

8.1.1 Mitre table Locks on the Model KGZ 210 E

The miter table latches (18) are used to lock the table at the desired miter angle. The miter saw cuts from 0 ° to 45 ° left and right. To set the miter angle, loosen the miter table latches (18) (19) and turn the miter table to the desired position.

The miter table has positive click-stops at 0 °, 15 °, 22.5 °, 30 ° and 45 ° for quick setting of common bevel angles.

8.1.2 Bevel Lock on the Model KGZ 210 E

The slope (10) is used to adjust the saw blade to the desired angle of inclination. The miter saw cuts from 0 ° to 45 ° to the left. To set the chamfer angle, loosen the chamfer lock and set the saw arm to the desired chamfer angle.

8.1.3 Spindle lock button on the Model KGZ 210 E

The spindle lock button (Pos. 20) prevents the blade in the saw from rotating. Depress and hold the spindle lock button while installing, changing, or removing the blade.

8.1.4 Rotating Lower Blade Guard (Model KGZ 210 E)

The rotating lower blade guard (Pos. 6) provides protection from both sides of the blade. It retracts over the upper blade guard (Pos. 4) as the saw is lowered into the workpiece.

8.1.5 Turning ON and OFF (Model KGZ 210 E)

Step 1: To turn on the saw, slide the switch lock (28) to the left and press the on / off switch (17).

Step 2: To turn off the saw, release the ON / OFF switch (17).

8.1.6 Adjusting the squareness of the saw blade to the table on model KGZ 210 E

Step 1: Make sure the power plug is disconnected from the power outlet.

Step 2: Push the release latch (28) towards the handle. Slide the saw arm (1) to the lowest position and press the release button (2) to hold the saw arm in the transport position.

Step 3: Loosen the miter locks (18) and raise the miter lock (19).

Step 4: Turn the table (14) until the pointer is at 0 °.

Step 5: Release the miter lock (19) and tighten the miter locks (20).

Step 6: Loosen the miter lock (10) and set the saw arm (1) to 0 ° miter (the saw blade 90 ° to the miter table). Tighten the tilt lock (10).

Step 7: Place a combination square against the table (14) and the flat part of the saw blade.

Step 8: Turn the saw blade by hand and check the alignment of the saw blade with the table in several places.

Step 9: The edge of the square and the saw blade should be parallel. If the saw blade deviates from the set angle, adjust as follows:

Step 10: Use a 10 mm wrench or an adjustable wrench to loosen the locking nut that secures the 0 ° angle adjustment screw (27).

Step 11: Release the tilt lock (10).

Step 12: Adjust the 0 ° Bevel Adjustment Screw (27) with a 4mm Allen Wrench to align the saw blade with the Combi Wheel.

Step 13: Loosen the Phillips head screw that holds the tilt scale pointer (11) and adjust the pointer position to exactly zero on the scale. Tighten the screw again.

Step 14: Retighten the Tilt Lock (10) and the lock nut that secures the 0 ° Tilt Adjustment Screw (27).

8.1.7 Adjusting the squareness of the stop to the table in the model KGZ 210 E

Step 1: Make sure the power plug is disconnected from the power outlet.

Step 2: Push the release latch (28) towards the handle. Slide the saw arm (1) to the lowest position and press the release button (2) to hold the saw arm in the transport position.

Step 3: Loosen the miter locks (18) and raise the miter lock (19).

Step 4: Turn the table (14) until the pointer is at 0 °.

Step 5: Release the miter lock (19) and tighten the miter locks (18).

Step 6: Use a 5 mm Allen wrench and loosen the two screws securing the stopper (12) to the base frame.

Step 7: Place a combination square against the stop (12) and along the saw blade.

Step 8: Adjust the fence so that it is perpendicular to the saw blade.

Step 9: Tighten the screws securing the stopper (12).

Step 10: Loosen the Phillips screw that holds the gauge of the Gauge Angle Indicator (15) and set it to accurately indicate the zero point of the bevel angle scale.

Step 11: Tighten the miter angle indicator locking screw.

8.1.8 Cross Cut (Model KGZ 210 E)

A crosscut is made by cutting across the grain of the workpiece. A 90° crosscut is made with the mitre table set at 0°. Mitre crosscuts are made with the table set at some angle other than zero.

ATTENTION!

If possible, always use a clamping device such as a ‘G" clamp to secure your workpiece.

When cutting your workpiece, keep your hands well away from the blade area.

Do not remove a cut-off piece on the right-hand side of the blade using your left hand.

Step 1: Pull the release button (2) and raise the saw arm (1) to full height.

Step 2: Loosen the miter locks (18) and raise the miter lock (19).

Step 3: Turn the miter table (14) until the pointer is at the desired angle.

Step 4: Release the miter lock (19) and retighten the miter locks (18).

Step 5: Lay the workpiece flat on the table with one edge firmly against the stop (12).

If the board is bent, place the convex side against the fence (12). If the concave side is placed against the fence, the plate may break and block the saw blade.

When cutting long pieces of wood, support the opposite end of the wood with side supports, a roll stand, or a work surface that stands on the saw table.

Step 6: Before starting the saw, dry the cutting process to make sure there are no problems, such as cutting. B. that a clamp affects the cutting process.

Step 7: Hold the control handle (3) and press the trigger switch (17) and the locking lever (28).

Step 8: Let the saw blade reach its maximum speed.

Step 9: Slowly lower the saw blade into and through the workpiece.

Step 10: Release the switch release (17) and wait until the saw blade stops rotating before lifting the saw blade out of the workpiece.

Step 11: Wait for the saw blade to stop before removing the workpiece.

8.1.9 Bevel Cut (Model KGZ 210 E)

A bevel cut is made by cutting across the grain of the workpiece with the blade angled to the fence and mitre table. The mitre table is set at the zero degree position and the blade set at an angle between 0°and 45°.

ATTENTION!

If possible, always use a clamping device such as a ‘G" clamp to secure your workpiece.
When cutting your workpiece, keep your hands well away from the blade area.
Do not remove a cut-off piece on the right-hand side of the blade using your left hand.

Step 1: Pull the release button (2) and raise the saw arm to its full height.

Step 2: Loosen the miter locks (18) and raise the miter lock (19).

Step 3: Turn the miter table (14) until the pointer on the miter scale (15) is at zero.

Step 4: Release the miter lock (19) and retighten the miter locks (18).

Step 5: Loosen the miter lock (10) and move the saw arm (1) to the left to the desired tilt angle (between 0 ° and 45 °). Tighten the tilt lock (10).

Step 6: Lay the workpiece flat with one edge securely on the table (12).

When the board is warped, place the convex side against the stop. If the concave side is placed against the stop, the plate may break and block the saw blade. When cutting long pieces of wood, support the opposite end of the wood with side supports, a roll stand, or a worktop that stands on the saw table.

Step 7: Before starting the saw, dry the cutting process to make sure that there are no problems, such as cutting. B. that a clamp affects the cutting process.

Step 8: Hold the control handle (5) and press the trigger switch (17).

Step 9: While holding the control handle (3), press the key lock (28) and the shutter button (17). Allow the blade to reach maximum speed and slowly lower it into and through the workpiece.

Step 10: Release the trigger switch (17) and stop the saw blade from rotating before lifting the blade out of the workpiece.

Step 11: Wait for the saw blade to stop before removing the workpiece.

8.1.10 Compound Mitre Cut (Model KGZ 210 E)

If possible, always use a clamping device, eg. For example, a screw clamp to the right of the miter table to secure your workpiece. Keep your hands away from the saw blade area when cutting your workpiece.

Never use your left hand to remove a cut off part on the right side of the saw blade.

In a compound miter cut, a miter angle and a pitch angle are used simultaneously. It is used to make picture frames, cut moldings, boxes with sloping sides and for the production of roof frames. Always make a trial cut on a piece of wood before cutting into the good material.

Step 1: Pull the release button (2) and raise the saw arm to its full height.

Step 2: Loosen the miter locks (18) and raise the miter lock (19).

Step 3: Turn the miter table (14) until the pointer is aligned with the desired angle on the miter scale (15).

Step 4: Release the miter lock (19) and retighten the miter locks (18).

Step 5: Loosen the miter lock (10) and move the saw arm (1) to the left to the desired tilt angle (between 0 ° and 45 °). Tighten the tilt lock (10).

Step 6: Lay the workpiece flat with one edge securely on the table (12).

When the board is warped, place the convex side against the fence. If the concave side is placed against the fence, the plate may break and block the blade.

When cutting long pieces of wood, support the opposite end of the wood with the side support bars, a roll stand, or a work surface that stands on the saw table.

Step 7: Before starting the saw, dry the cutting process to make sure that there are no problems, such as cutting. B. that a clamp affects the cutting process.

Step 8: Hold the control handle (3) firmly and squeeze the switch lock (28) and the switch release (17) together. Allow the blade to reach maximum speed and slowly lower it into and through the workpiece.

Step 9: Release the trigger switch (17) and wait until the saw blade stops rotating before lifting the saw blade out of the workpiece.

Step 10: Wait for the saw blade to stop before removing the workpiece.

8.1.11 Sawing wide boards on model KGZ 210 E

To cut wide boards, unlock the sliding lock knob (22) and allow the cutting head to slide freely.

8.1.12 Setting the Cutting Depth (Model KGZ 210 E)

The depth of cut can be preset for repetitive straight cuts.

Step 1: Slide the trench stop (24) to the forward position.

Step 2: Loosen the trench depth lock nut (25) to release the trench depth adjustment screw (23). Turn the screw until the cutting head points down and until the teeth of the saw blade are at the desired depth.

Step 3: While holding the upper arm in this position, tighten the Locknut (25) to secure the Incision Depth Adjustment Screw (23).

Step 4: Recheck the blade depth by moving the cutting head back along the control arm through the entire typical cutting motion.

8.2 Adjustment Options on the Model KGZ 255 E

8.2.1 Setting the working position, Model KGZ 255 E

Step 1: Slide the tool arm slightly down the handle (1) to relieve the locking pin (21).

Step 2: Pull the locking pin (21) fully outwards and turn 90 ° and release.

Step 3: Slowly raise the tool arm.

8.2.2 Setting the Mitre Angle on the Model KGZ 255 E

Step 1: If a miter cut is required, unlock the table by turning the miter handle (1) counterclockwise.

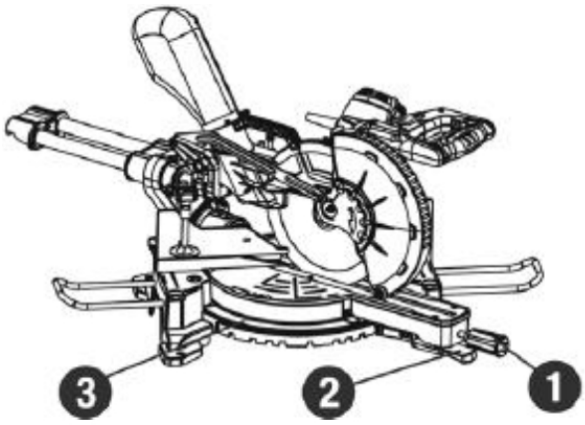

Fig. 8: Model KGZ 255 E

Step 2: While holding the miter handle, raise the locking lever (2).

Step 3: Turn the table with the miter handle to the right or left.

Step 4: With the table in the desired position, as shown on the miter scale (3), release the locking lever and tighten the miter handle. The table is now locked at the desired angle. Positive stops are at 0 °, 15 °, 22.5 °, 31.6 ° and 45 °

8.2.3 Cross cutting (Model KGZ 255 E)

For cutting widths up to approx. 100 mm, it is possible to fix the saw-pulling function with the locking screw (22) for the return of the pulling aid. If the cutting width exceeds 100 mm, loosen the locking screw (22) for the pulling aid and the machine head (19) can be removed.

Step 1: Move the machine head (19) into the

upper position.

Step 2: Insert the machine head (19) with the handle (1) to the rear and fix it in this position if necessary (depending on the cutting width).

Step 3: Place the piece of wood to be cut against the workpiece stop (15) and on the turntable (25). Attention! Clamp the material on the fixed saw table with the clamp (13) to prevent the material from moving during the cutting process.

Step 4: Flat material in a lying position with the

tension the vertical clamping device.

Step 5: Turn on the saw: Press the

Key lock (24) to the left, and hold

press the on / off button (2).

Step 6: With fixed guide: Use the handle (1) to move the machine head (19) down evenly and with light pressure until the saw blade (18) has completely cut through the workpiece.

Step 7: When the tow guide is not fixed: Pull the machine head (19) all the way to the front and move it with the handle (1) evenly and with a slight downward pressure. Now push the machine head (19) back slowly and evenly until the saw blade (18) has completely cut through the workpiece.

Step 8: When the cutting process is complete, move the machine head (19) back to its upper (home) position and release the on / off button (2) to turn off the saw. Important! The integrated return springs lift the machine head automatically. Do not simply release the handle (1) after cutting, but let the machine head (19) rise slowly, applying slight counterpressure.

8.2.4 Adjustment of the Mitre Angle Pointer (Model KGZ 255 E)

Step 1: Move the table to the 0° positive stop.

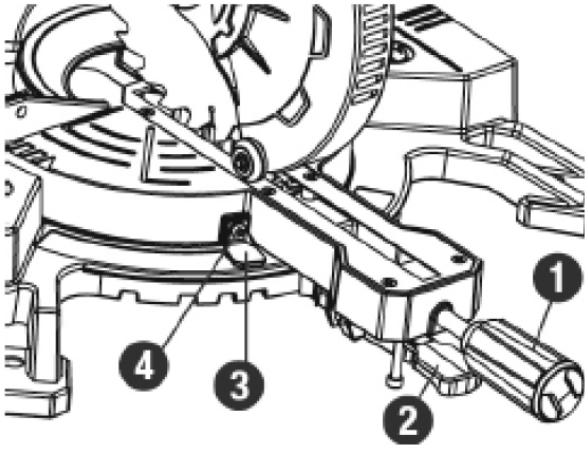

Fig. 9: Adjustment of the mitre angle pointer

Step 2: Loosen the screw (Pos. 4) that holds the indicator with a Phillips screwdriver.

Step 3: Adjust the indicator (Pos. 3) to the 0° mark and retighten the screw.

8.2.5 Adjusting the Fence (Model KGZ 255 E)

Step 1: Lower the cutting head and lock in position

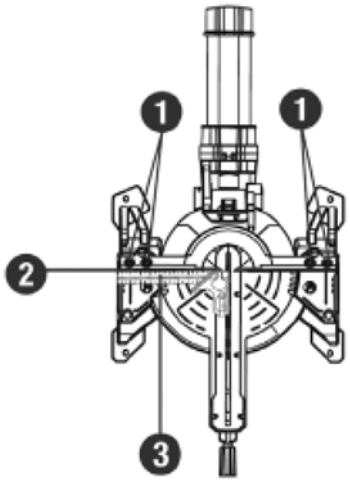

Fig. 10: Adjusting the Fence

Step 2: Remove the fixing screws and then pull out the left and right upper sliding fences (Pos. 2). Four fence locking bolts (Pos. 1) will appear.

Step 3: Lower the cutting head and lock it in position.

Step 4: Using a square (Pos. 3 lay the heel of the square against the blade and the ruler against the fence (Pos. 2) as shown.

Step 5: Loosen the four fence locking bolts with a 4 mm. hex wrench.

Step 6: Adjust the fence 90° to the blade and then tighten the four fence locking bolts.

Step 7: After fence has been aligned, make a cut at 90° using a scrap piece of wood and check squareness on the piece. Readjust if necessary.

8.3 Double mitre cut Model KGZ 255 E

With the chop saw miter cuts can be made to the left of 0 ° -45 ° and to the right of 0 ° -45 ° in relation to the work surface, whereby the turntable can be adjusted simultaneously from 0 ° -45 ° to left from 0 ° -45 ° to the right to the stop rail (double miter cut).

Step 1: If necessary, disassemble the clamping device (13) or mount it on the opposite side of the fixed saw table.

Step 2: Move the machine head (19) to the upper position

Step 3: Loosen the turntable (25) by loosening the locking screw (7) and the locking lever (8).

Step 4: Adjust the turntable (25) with the handle (1) to the desired angle.

Step 5: Tighten the locking screw (7) to secure the turntable.

Step 6: Cut as described above

8.3.1 90° (0°) Bevel Adjustment (Model KGZ 255 E)

Step 1: Loosen bevel lock knob (Pos. 1) and push the 0° stop pin (Pos. 2) in. Tilt the cutting arm completely to the right. Tighten the bevel lock knob.

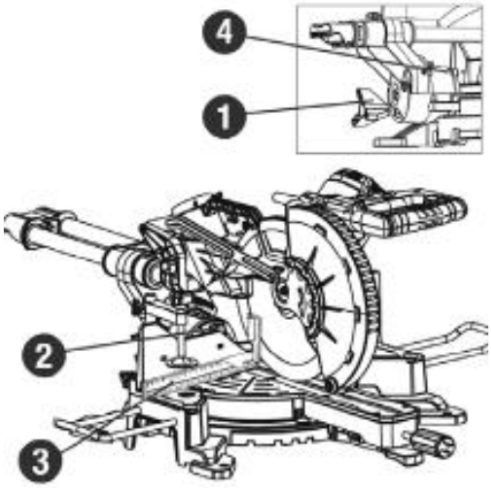

Fig. 11: 90° (0°) Bevel Adjustment

Step 2: Place a combination square (3) on the table with the ruler against the table and the heel of the square against the saw blade.

Step 3: If the blade is not 90 ° square with the table, loosen the bevel lock knob, put a 4 mm. hex wrench into the hole (Pos. 4) located in the left side end of the arm holder, turn the hex screw clockwise or counterclockwise to make the blade square to the table.

Step 4: Tighten bevel lock knob when alignment is achieved.

8.3.2 90° Bevel Pointer Adjustment (Model KGZ 255 E)

Step 1: When the blade is exactly 90° to the table, loosen the bevel indicator screw (Pos. 1) using a Phillips screwdriver.

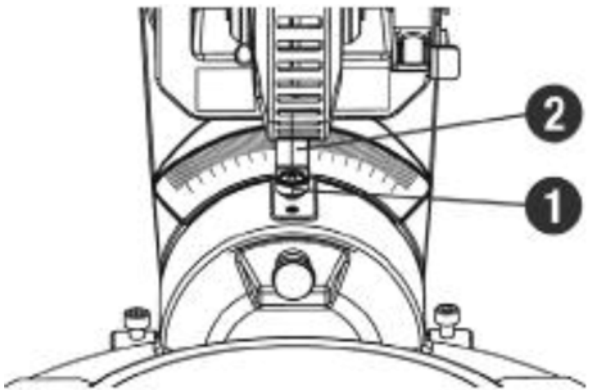

Fig. 12: 90° Bevel Pointer Adjustment

Step 2:Adjust bevel indicator (Pos. 2) to the “0” mark on the bevel scale and retighten the screw.

8.3.3 45° Bevel Adjustment Left and Right (Model KGZ 255 E)

Step 1: Loosen the bevel lock knob (Pos. 1) and tilt the cutting head completely to the left.

Step 2: Pull out the 0° stop pin (Pos. 2).

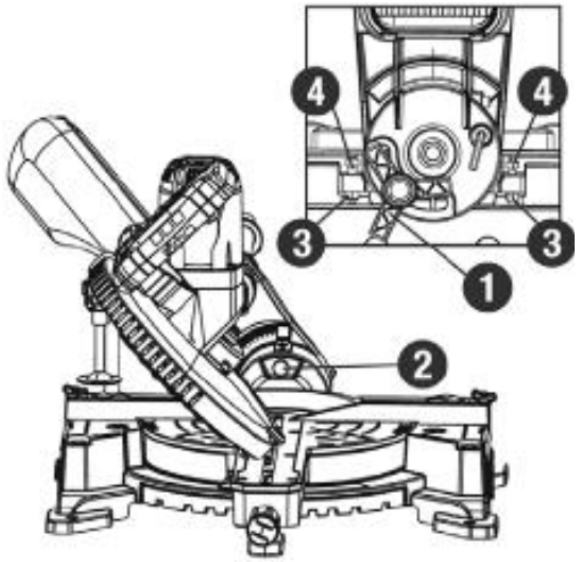

Fig. 13: 45° Bevel Adjustment

Step 3: Loosen the bevel lock knob and tilt the cutting head completely to the left. The mitre angle scale must be at 0°.

Step 4: Using a combination square, check to see if the blade is at a 45° angle to the table.

Step 5: If the blade is not at 45° to the table, tilt the cutting arm to the right, loosen the lock nut (Pos. 3) on the bevel angle adjustment bolt (Pos. 4) and use a 5 mm. hex wrench to adjust bolt depth in or out to increase or decrease the bevel angle.

Step 6: Tilt the cutting arm to the left to 45° bevel and recheck for alignment.

Step 7: Repeat above steps until the blade is at 45° to the table.

Step 8: Tighten bevel lock knob and lock nut when alignment is achieved.

Step 9: The right bevel 45° adjustment uses the same sequence as the left bevel adjustment, just adjusting the adjustment bolt to 45° on the right.

8.3.4 Bevel cut Model KGZ 255 E

With the chop saw, cross cuts from 0 ° -45 ° to the left and 0 ° -45 ° to the right to the stop can be made.

Step 1: Loosen the turntable (25) by loosening the locking screw (7) and the locking lever (8).

Step 2: Turn the turntable (25) and the scale pointer to the desired angle setting on the adjusting wheel (26) and lock it with the locking screw (7). The saw has locking positions in angles of -45 °, -30 °, -22.5 °, -15 °, 0 °, 15 °, 22.5 °, 30 ° and 45 °, in which the turntable (25) audible locks.

Step 3: Tighten the locking screw (7) to secure the turntable (25).

Step 4: Cut as described above.

The saw blade can be positioned at any angle, from a 90 ° straight cut (0 ° on the scale) to a 45 ° left / right miter.

8.4 Setting the Maximum Cutting Depth (Model KGZ 210 E and KGZ 255 E)

NOTE!

Switch off the saw and unplug the power cord as soon as you make the following settings.

The maximum depth travel of the cutting head hasbeen set at the factory. Check that the saw blade is free of movement along the kerf by pressing the saw head down and making the full movement of a cut along the table insert. Turn the saw blade gently on the side to check the free movement of the saw blade. If the saw blade does not move freely over the table insert, the saw may be damaged.

If the saw head does not move freely, make the following settings:

Step 1: The cutting depth can be finely adjusted by turning the screw (A). To do this, loosen the knurled nut on the screw (A). Unscrew the screw (A) to tighten the knurled nut on the screw (A).

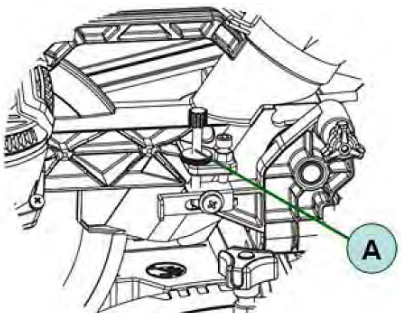

Fig. 14: Set cutting depth

Step 2: Check the blade depth again by moving the cutting head forward and back along the table insert by making one complete cut.

8.4.1 Setting the Trenching Facility on the Model KGZ 255 E

In its normally set position the trenching facility permits the blade to cut completely through the work piece, but when set the trenching facility allows the blade to cut only part way through the work piece.

Step 1: Slide the stop plate (Pos. 1) towards the front position.

Step 2: Loosen the lock nut (Pos. 2) to free the lock knob (Pos. 3), turn the stop knob down until the teeth of the blade are at the desired depth.

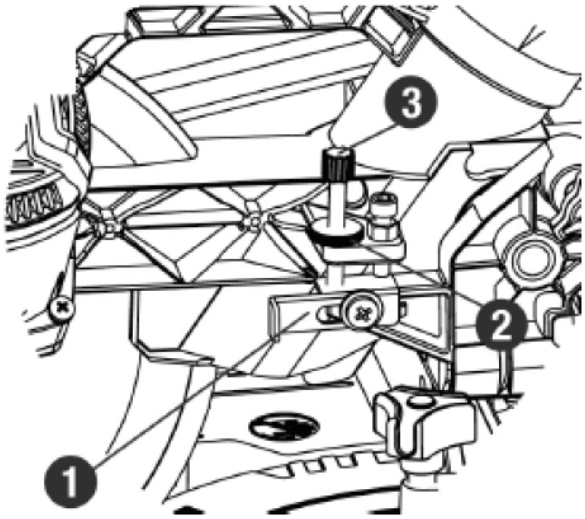

Fig. 15: Setting the Trenching Facility

Step 3: While holding the upper arm in that position, tighten the lock nut to secure the stop knob.

Step 4: Recheck the blade depth by moving the cutting head front to back through the full motion of typical cut along the control arm.

8.5 Operation of the laser model KGZ 255 E

Turn on:

Press the on / off switch (30) to the "I" position to turn on the laser (29). The laser line is projected onto the material to be processed and provides an exact guide for the cut.

Turn off:

Push the On / Off switch (30) to the other position.

8.6 Workpiece clamp

Model KGZ 210 E

When a workpiece is clamped, the board should always be clamped with a screw clamp.

Model KGZ 255 E

To ensure optimum working safety, the workpiece must always be firmly clamped.

Do not saw workpieces that are too small to clamp.

When clamping the workpiece, do not reach with your fingers under the clamping lever of one of the two clamps.

Step 1: Press the workpiece firmly against the stop (14).

Step 2: Insert the quick clamp (13) into one of the holes provided.

Step 3: Adjust the quick release to the workpiece by turning the threaded rod.

Tighten the main screw to clamp the workpiece.

8.7 Table extension

Model KGZ 210 E

To support long workpieces, fix the side support rods and adjust the length to support the workpiece. The miter saw must be set up stable on a level and firm ground. It is important to ensure that there is enough freedom of movement to work.

CAUTION!

Risk of injury from an insufficiently secured saw!

Check the stability of the saw after mounting on stable ground.

9 Care, maintenance and repairs

DANGER!

Risk of fatal injury through electric shock!

There is a risk of fatal injury on touching live components. Electrical components that are switched on can perform uncontrolled movements and cause injuries.

- Before starting cleaning and maintenance work, unplug the mains connector.

9.1 Care after finish work

Use protective gloves!

NOTE!

Never use strong cleaning agents for any cleaning work. This can damage or destroy the device.

Step 1: Unplug the mains connector from the safety socket.

Step 2: Empty and clean the dust collection bag.

Step 3: Clean the saw from sawdust and chips.

Step 4: Check the saw for damage to the safety devices and the saw blade. If necessary, repair or have repaired the saw in accordance with the safety instructions.

To ensure safe and proper operation, keep the power tool and ventilation slots clean at all times.

The pull-back blade protection must always be able to move freely and retract automatically. Therefore, always keep the area around the return saw blade guard clean. Remove dust and chips after each operation with a brush or by blowing out with compressed air.

General inspection

Regularly check that all the fixing screws are tight. They may vibrate loose over time. Check especially the outer flange. If there is vibration, screws can loosen with time.

Regularly check the device's power cable and all extension cables used for damage. If the supply cord needs replacing, the task must be carried out by the manufacturer, the manufacturer's agent, or an authorized service centre in order to avoid a safety hazard. Replace damaged extension cables.

If the carbon brushes need to be replaced, have this done by a qualified repair person

9.2 Replacement the Saw Blade

Use protective gloves!

Model KGZ 210 E

Step 1: Pull out the power plug from the grounded power outlet.

Step 2: Push the release latch (28) towards the handle. Press the control handle (3) down and pull the release button (2) to release the saw arm (1).

Step 3: Raise the saw arm (1) to the highest position.

Step 4: Loosen the cover plate screw with a Phillips screwdriver.

Step 5: Pull the shield of the rotating saw blade (6) and turn it (6) over the upper fixed guard (4) to gain access to the blade pin.

Step 6: Hold up the rotation guard (6) and press the spindle lock knob (20). Turn the saw blade until the spindle engages.

Step 7: Use the supplied 6mm hex wrench to loosen and remove the saw blade screw. (Loosen clockwise as the knife screw has a left-hand thread).

Step 8: Remove the washer, the outer blade flange and the saw blade. Remove sawdust and dirt from the spindle and saw blade.

Step 9: Wipe a drop of oil on the inner leaf flange and the outer leaf flange, where they touch the leaf.

Step 10: Place the new saw blade on the spindle, making sure the inner blade flange is behind the saw blade.

Step 11: Reinstall the outer blade flange.

Step 12: Press the Spindle Lock Knob (20) and replace the Washer and Blade Screw.

Step 13: Tighten the saw blade screw firmly with the 6 mm Allen key (tighten counterclockwise).

Step 14: Lower and hold the rotating lower blade guard (6) and saw blade screw cover (8) to position you. Replace the mounting screw and tighten to secure the saw blade screw cover in place.

Step 15: Check that the blade guard is working properly and cover the saw blade guard when the saw arm is lowered.

Step 16: Connect the saw to the power supply and run the blade to make sure it is working properly..

Model KGZ 255 E

Step 1: Disconnect the mains plug before working on the device. Disconnect the device from the power source.

Only use saw blades whose maximum permissible speed is higher than the idle speed of the power tool.

Step 2: Adjust the locking pin to lift the cutting head.

Step 3: Loosen the cover plate screw (A) about 2 turns with a Phillips screwdriver. Do not remove the screw from the tool. Do not remove this screw from the tool.

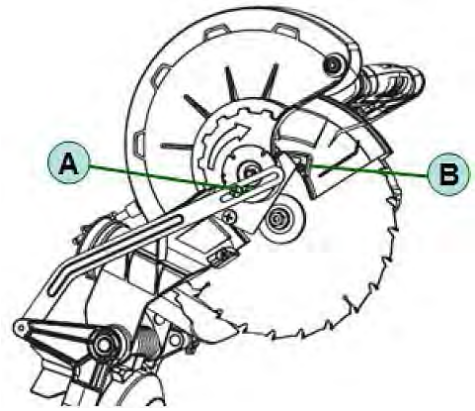

Fig. 16: Saw blade change model KGZ 255 E

Step 4: Lift the lower blade guard (4) and hold it up to expose the bolt with the threaded bolt.

Step 5: Press and hold the spindle lock knob (20) while placing the hex wrench on the other side of the flange screw while turning the saw blade until it clicks into place.

Step 6: Continue to hold the spindle lock button to engage it while turning the threaded stud clockwise with the wrench and removing the threaded stud. Turn the flange screw to the right and remove the outer flange.

Step 7: Remove the outer flange and the saw blade (18). Wipe the flanges and spindle to remove dust and dirt.

Step 8: Install the saw blade (18) in reverse order. Adjust the arrow on the saw blade with the arrow on the top blade cover. Make sure the blade teeth point down.

Step 9: Place the outer flange against the saw blade and onto the shaft. Screw the saw blade bolt counterclockwise onto the shaft.

Step 10: Insert the saw blade wrench into the saw blade screw.

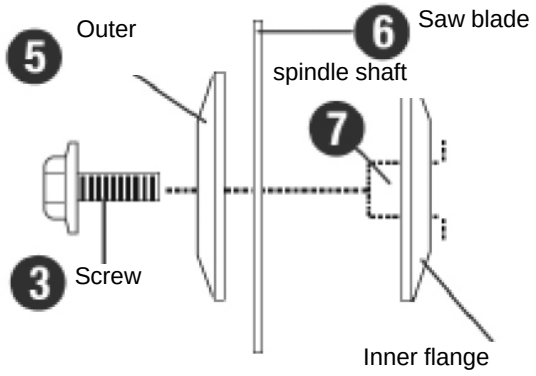

Fig. 17: Saw blade change model KGZ 255 E

Step 11: Press and hold the spindle lock knob (4) while turning the knife counterclockwise. If the spindle lock clicks into place, push it further while tightening the blade screw.

Step 12: Turn the lower blade guard back to its original position until the slot in the cover plate snaps into place with the cover plate screw.

Step 13: Hold the lower blade guard and tighten the screw with a Phillips screwdriver.

Step 14: Make sure that the function of the protector does not jam or stick.

Step 15: Verify that all equipment is properly installed and in good condition before starting work.

DANGER!

Each time the saw blade is changed, it must be checked whether the saw blade turns freely and at an angle of 45 ° in the table insert (6).

9.3 Electric brake modelKGZ 255 E

For safety reasons, the device is supplied with an electric brake system for the saw blade. The device may therefore generate sparks when it is turned off. This does not affect the performance or safety of the device.

9.4 Maintenance and repairs

Maintenance and repairs must be carried out by specialist staff only.

If the chop- and mitre saw is not operating correctly, contact a specialist retailer or our customer service. The contact details can be found in chapter 1.2 Customer Service.

All protective and safety equipment must be immediately reinstalled after having completed repair and maintenance work.

1. When all the adjustments, settings or maintenance have been done, make sure that all keys and wrenches have been removed and that all screws, bolts and other fittings are securely tightened.
2. Keep the tool's air vents unclogged and clean at all times. Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool.
3. Regularly check to see if any dust or foreign matter has entered the grills near the motor and around the trigger switch. Use a soft brush to remove any accumulated dust.
4. Wear safety glasses to protect your eyes whilst cleaning.
5. If the body of the saw needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used but nothing like alcohol, petrol or other cleaning agent.
6. Never use caustic agents to clean plastic parts.

ATTENTION!

Water must never come into contact with the saw.

7. Store the tool, instruction manual and accessories in a secure place. In this way you will always have all the information and parts on hand.

Lubrication Model KGZ 255 E

All the motor bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal operating conditions; therefore, no further lubrication is required.

Lubricate the following as necessary:

- Tapping: Apply light machine oil at the indicated points.

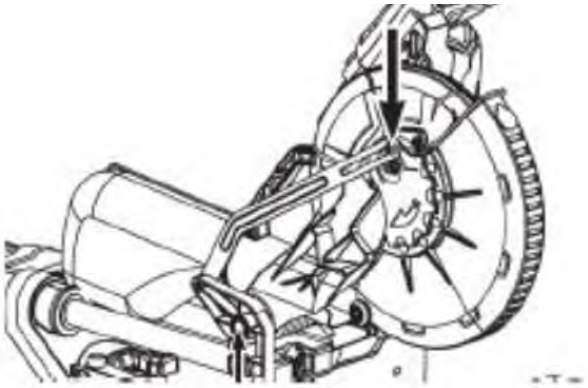

Fig. 18: Lubrication point KGZ 255 E

The central point of plastic protection: Use light household oil (sewing machine oil) on metal-metal or metal-plastic protective contact surfaces to ensure smooth, quiet operation. Avoid excessive oil as sawdust will adhere to it.

DANGER!

The grease in the gearbox must be replaced after extensive use of the tool. Ask an authorized service representative to perform this service.

Replacing the Carbon Brushes (Model KGZ 255 E)

Replace both carbon brushes when either has less than 6 mm) length of carbon remaining, or if the spring or wire is damaged or burned.

Step 1: To inspect or replace brushes, first unplug the saw.

Step 2: Remove the two screws on the back cover of the motor and take the cover off.

Step 3: Move the coil spring which presses on the carbon brush to other side to free the carbon brush.

Step 4: Pull out the brush and the wire which connects it to the holder.

Step 5: Replace it for a new carbon brush.

Step 6: Then replace the carbon brush on the other side of the motor.

Step 7: To reassemble, reverse the procedure. Tighten two screws on the back cover.

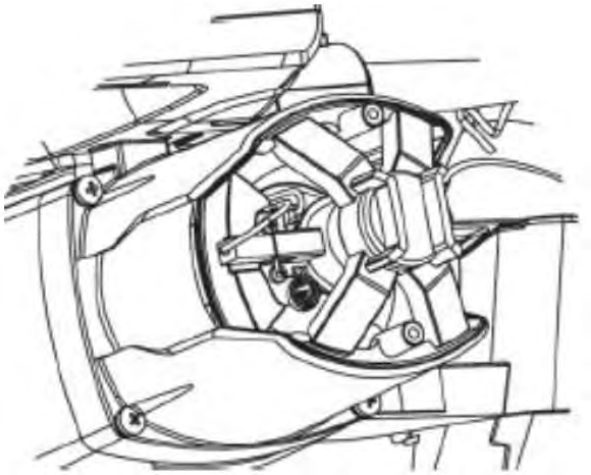

Fig. 19: Replacing the carbon brushes

This will avoid a break-in period that reduces motor performance and increases wear.

10 Troubleshooting

Fault	Possible causes	Elimination
The Engine does not start up	No mains power. Connecting cable is defective.	Have the mains power /connection cable checked by qualified personnel.
Engine does not run consistently	Carbon brushes worn out	Have the carbon brushes checked by qualified personnel and replaced if necessary.
Motor becomes too hot	1. Engine short circuit 2. Engine overload	1. Disconnect the power plug and have the saw repaired by qualified personnel 2. Check if the saw blade is suitable for the material to be cut Check whether the saw blade is still sufficiently sharp. Take a work break and let the engine cool down.
Saw blade speed is too low	1. Engine defective 2. Mains voltage is too low	1. Have the motor checked by qualified personnel. 2. Have the mains voltage checked by qualified personnel.
Saw vibrates, saw blade hammers	1. Saw blade does not conform to specification. 2. Saw blade not sufficiently fastened. 3. Saw blade is defective.	1. Use the specifications in the technical data to check whether the saw blade is suitable for installation 2. Tighten the fixing screw 3. Check the saw blade for mechanical damage and replace it if necessary.
Cutting angle not maintained	Saw positions not properly fixed	Check whether the saw is fixed in the appropriate position so that the angle cannot adjust itself during sawing.
Turntable is difficult to move	The wood chips in the turning area	Remove the the wood chips

11 Disposal, reusing used machines

In your own interest and to protect the environment make sure that all machine components are exclusively disposed of in as intended and permitted.

11.1 Decommissioning

Disused machines must be decommissioned immediately to prevent misuse at a later point and putting the environment or persons at risk.

Step 1: remove all environmentally hazardous processing materials from the used machine.

Step 2: If necessary, disassemble the machine into assemblies and components that are easy to handle and suitable for recycling.

Step 3: The machine components and processing materials must be disposed of using the intended disposal methods.

11.2 Disposal via municipal collection points

Disposal of used electrical and electronic equipment (Applicable in the countries of the European Union and other European countries with a separate collection system for these appliances).

The symbol on the product or its packaging indicates that this product should not be treated as normal household waste, but must be returned to a collection point for the recycling of electrical and electronic equipment. By helping to properly dispose of this product, you are protecting the environment and the health of others. Environment and health are endangered by improper disposal. Material recycling helps to reduce the consumption of raw materials. For more information about recycling this product, contact your local community, municipal waste management, or the shop where you purchased the product.

11.3 Disposal of electrical equipment

Note that electrical equipment contains a variety of recycling-capable materials and also environmentally hazardous components. Please help to separate these components and dispose of them responsibly. In case of doubt, contact your local waste disposal authority. Consult a specialist disposal agent for recycling if needed.

11.4 Disposing of lubricants

Lubricant manufacturers provide disposal information for the lubricants used. If necessary, request product-specific data sheets.

12 Electrical Wiring Diagrams

Model KGZ 210 E

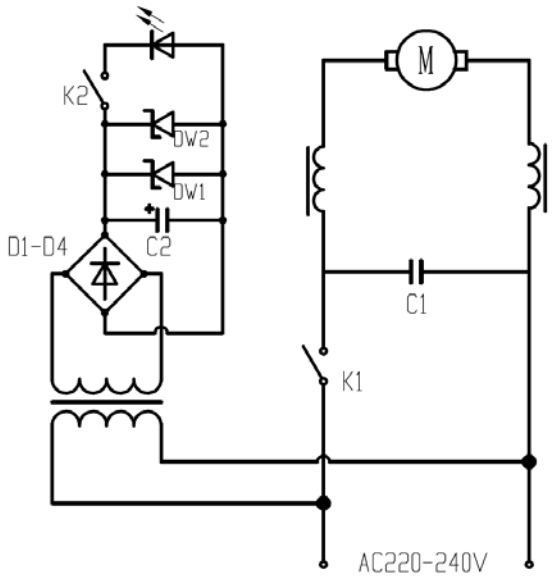

Fig. 20: Wiring diagram KGZ 210 E

Model KGZ 255 E

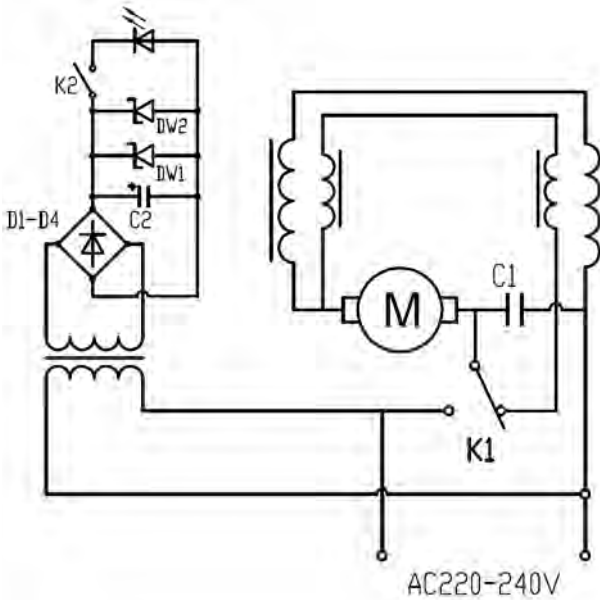

Fig. 21: Wiring diagram KGZ 255 E

13 Spare parts

DANGER!

Risk of injury caused by the use of incorrect spare parts!

The use of incorrect or faulty spare parts may cause risks for operating staff and damage as well as malfunctions.

- Exclusively genuine spare parts made by the manufacturer or spare parts authorised by the manufacturer shall be used.
- Always contact the manufacturer if you are unsure.

Tips and recommendations

The manufacturer warranty shall be rendered void in the event of a use of unauthorised spare parts.

13.1 Spare parts orders

Spare parts are available from authorised retailers or directly from the manufacturer. The contact details have been listed in section 1.2 Customer service.

The following key data is required for queries or spare parts orders:

- Device type
- Item number
- Position number
- Year of construction
- Quantity
- Desired shipping type (post, freight, sea, air, express)
- Shipping address

Spare parts orders without the aforementioned data cannot be taken into account. The supplier shall determine the shipping type if no relevant data was provided.

Data on the machine type, item number and year of manufacture is listed on the type plate attached to the device.

Example

The saw blade for the Chop- and Mitre Saw KGZ 210 E must be ordered. The saw blade has the number 52 in the spare parts drawing 1.
By ordering spare parts, send a copy of the spare parts drawing (1) with the marked part (saw blade) and marked positon number (52) to the dealer or spare parts department and provide the following information:

- Machine type: **Chop- and Mitre Saw KGZ 210 E**
- Item number: **5702210**
- Drawing number: **1**
- Position number: **52**

13.2 Spare parts drawing KGZ 210 E

The following drawings should help in case of service to identify necessary spare parts. To order, send a copy of the part drawing with the marked components to your authorized dealer.

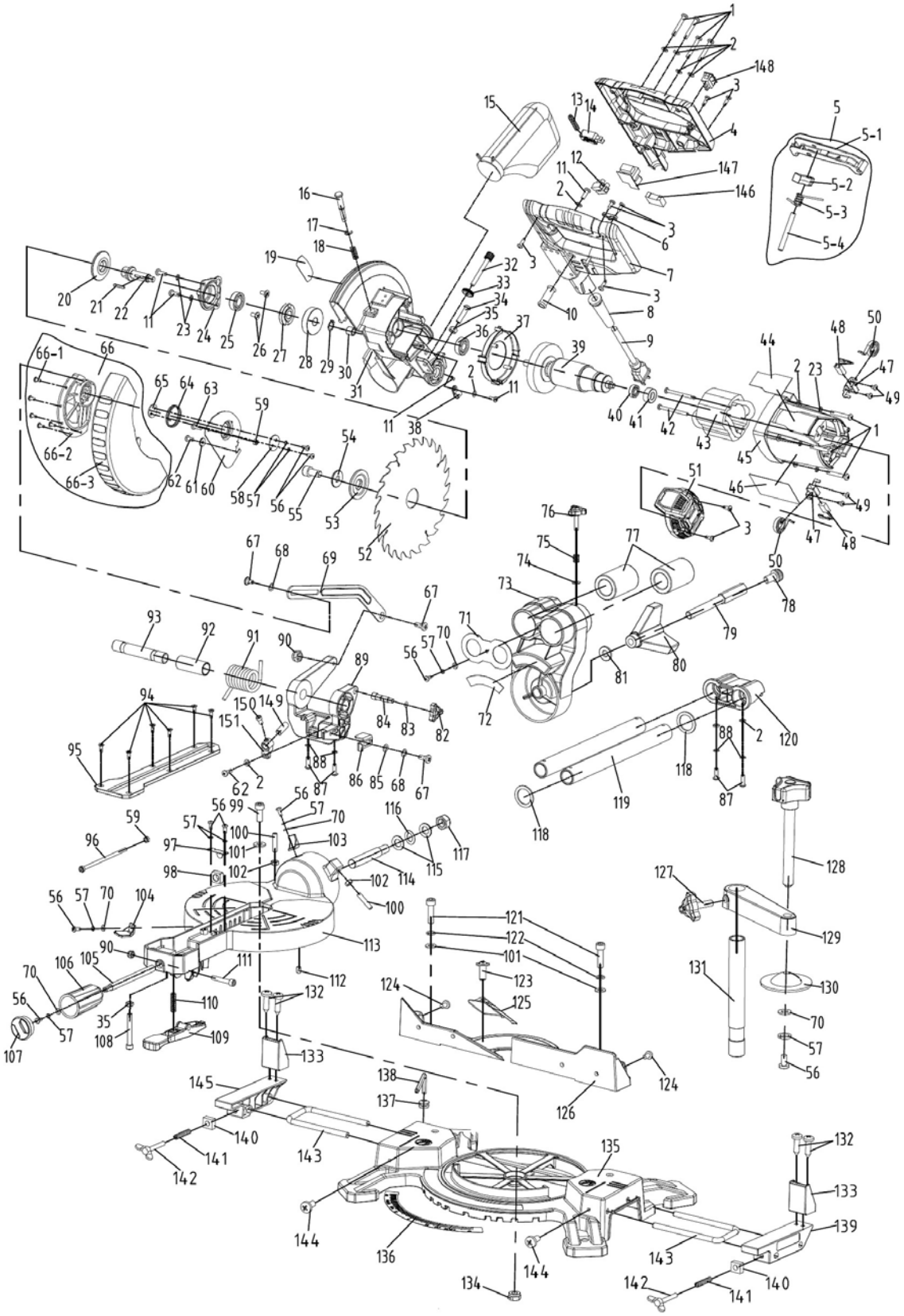

Fig. 22: Spare parts drawing KGZ 210 E

13.3 Spare parts drawing KGZ 255 E

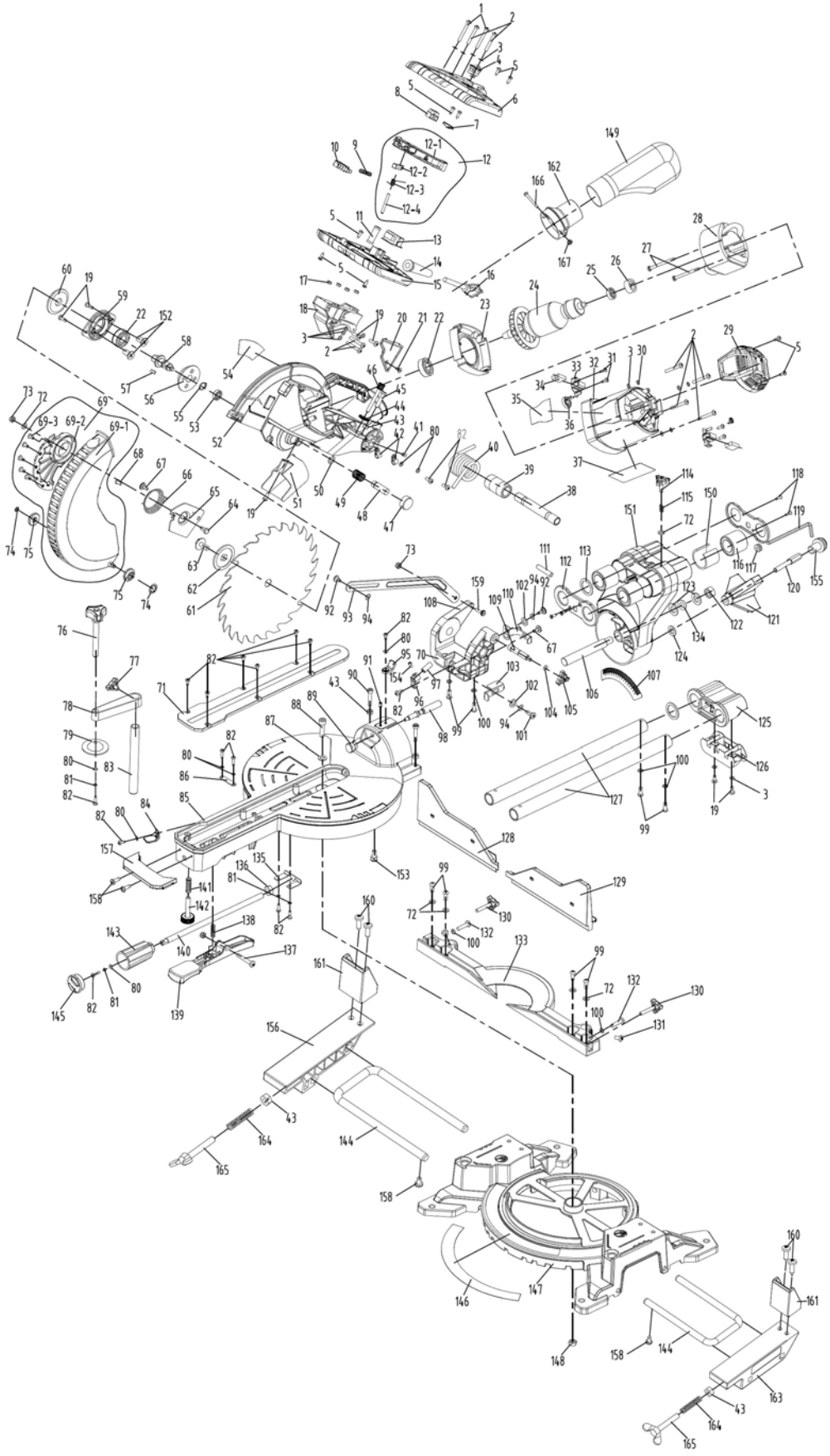

Fig. 23: Spare parts drawing KGZ 255 E

14 EC Declaration of Conformity

As per machine directive 2006/42/EC, Appendix II 1.A

Manufacturer/seller: Stürmer Maschinen GmbH
Dr.-Robert-Pfleger-Str. 26
D-96103 Hallstadt
Germany

hereby declares that the following product

Product group: Holzstar® Woodworking Machines

Machine type: Chop- and Mitre Saw

Designation of the machine *: ☐ KGZ 210 E ☐ KGZ 255 E

Item number *: ☐ 5702210 ☐ 5702255

Serial number*: _____

Year of manufacture*: 20____

* please fill in according to the information on the type plate

complies with all relevant regulations of the aforementioned directive as well as any other, applicable directives (subsequently added) – including the changes applicable at the time the declaration was made.

Relevant EU directives:
2014/30/EU EMC-Directive
2011/65/EU RoHS-Directive
2012/19/EU WEEE-Directive

The following harmonized standards were applied:

DIN EN 62841-1:2015+AC:2015	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 1: General requirements
DIN EN 62841-3-9:2015	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-9: Particular requirements for transportable mitre saws
EN 55014-1:2006 + A1:2009 + A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
DIN EN 55014-2:2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
DIN EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)
DIN EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection

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