holzstar
Holzbearbeitungsmaschinen

Operating Instructions

Chop- and Mitre Saw

KGZ 305 E

KGZ 305 E

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Imprint

Product identification

Chop- and Mitre Saw	Item nuber
KGZ 305 E	5702305

Manufacturer

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

Fax: 0049 (0) 951 96555 - 55

Email: info@holzstar.de
Internet: www.holzstar.de

Information about the operating instructions

Genuine operating instructions

Published: 01.03.2021
Version: 2.04
Language: English

Author: ES/FL

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 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:

Head protection

The industrial helmet protects the head against falling objects and bumping into stationary objects.

Hearing protection

The hearing protection protects the ears against damages of hearing due to noise.

Eye protection

Protective glasses protect the eyes against projected parts and splashes of liquid.

Protective gloves

The protective gloves provide protection for the hands against sharp-edged components, as well as against friction, abrasions or deeper injuries.

Safety boots

The safety boots protect the feet against crushes, falling parts and slipping over on slippery underground.

Protective clothes

Protective work clothing means tight-fitting clothing with low tear resistance.

2.3 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.

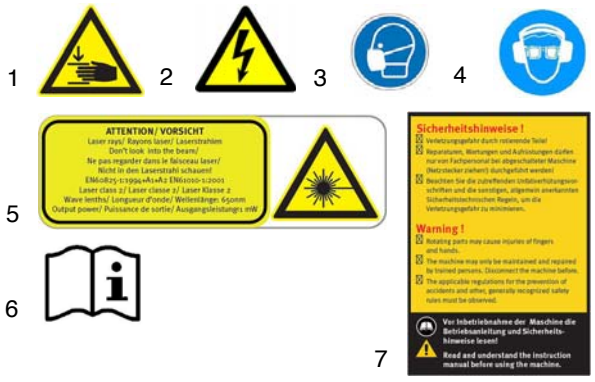


Fig. 1: Safety labels
1 Warning of injury I 2 Warning of dangerous electrical voltage I 3 Wear respiratory protection I 4 Wear hearing and eye protection I 5 Warning of laser beam - not in the Laser beam look! I 6 Read operating instructions I 7 Safety information

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.

3 Intended Use

The chop- and mitre saw KGZ 305 E is used for the production of cross sections, mitre cuts, double mitre cuts and inclined cuts of boards and strips. The production of grooves is also possible. The processing of solid wood, chipboard, panels and profiles made of plastic materials and aluminium is possible. In compliance with the safety instructions, the operating conditions for the saw blade used must be observed. The saw is suitable for both private and commercial use. Intended use also includes compliance with all the information in these instructions. Any use that goes beyond the intended use or any other use is considered misuse.

WARNING!

Danger in case of misuse!!

Misuse of the chop- and mitre saw can lead to dangerous situations.

- Never saw more than one piece of wood on top of each other.

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

4 Technical Data

	KGZ 305 E
Bevel angle range (Turntable)	0 – 45° (left/right)
Swing range (saw head)	0 – 45° (left/right)
Sound pressure level [db(A)]	88,4 dB(A)
Sound power level [db (A)]	101,4 dB(A)
Electrical connection	230 V / 50 Hz
Motor output	2000 W
Dimensions [LxWxH]	835x570x790 mm
Insulation class	I
Length of connecting cable	approx. 2 m
Laser category	2
Output power of the laser	< 1 mW
Blade highest speed	4500 min-¹
Saw blade size	305 x 30 x 3,2 mm
Ø Suction socket	41 mm
Ø Saw blade	305 mm
Weight	23 kg

4.1 Type plate KGZ 305 E

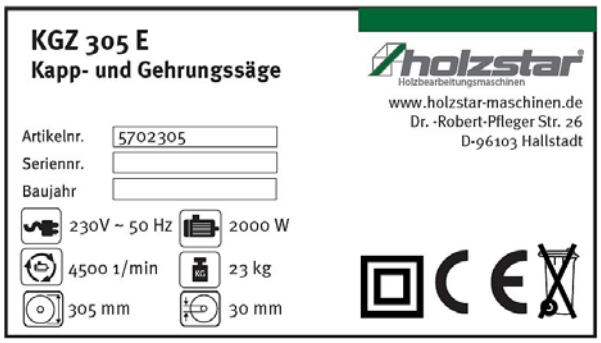


Fig. 2: Type plate

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.

Safety position for transport

Note the dimensions of the saw. The saw should always be transported by 2 persons.

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

Step 1: Clean the saw from saw dust with a brush.

Step 2: Disassemble the support aids.

Step 3: Loosen the saw from the mounting base by removing the 4 screws in the saw feet.

Step 4: Pull out the locking knob on the left side of the saw head locking device by approx. 1 cm (Fig. 5), turn it 90° so that the locking pin is in a vertical position.

Step 5: Press the saw head lock release button on the front of the saw head retaining handle and lower the saw head until the saw head lock engages.

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.

Fig. 3: Chop- and Mitre Saw KGZ 305 E

1. Carrying handle
2. ONN/OFF switch
3. Unlocking lever for the saw head
4. Saw blade guard
5. Pendulum protective cover
6. Saw blade
7. Workpiece fence
8. Support rotary table
9. Saw blade guide
10. Locking lever for turntable
11. Saw foot
12. Supporting aids
13. Clamping element
14. Support aids
15. Limit for groove depth
16. Traction rail
17. Chip bag
18. Drive motor with screw plug for exchange the carbon brush
19. Locking chain of the workpiece stop

An stepless height stop for the sawing depth enables the sawing of grooves.

The saw head can be moved on 2 guides in cutting direction, whereby the maximum cutting length of straight cuts is stepless increased to 340 mm.

The saw is equipped with a switchable laser for exact cutting guidance.

Fig. 4: Laser for marking the cutting line

The ON/OFF switch for the laser is mounted on the saw head handle.

NOTE!

The transformer for the laser is mounted in the handle of the saw. During operation, this can cause the handle to heat up a little.

Maximum workpiece sizes

Cut	max. cross section (WxH)
Straight cut	340 x 100 mm
Mitre cut (turntable 45°)	240 x 100 mm
Inclined cut, left (saw head tilted 45°)	340 x 40 mm
Inclined cut, right (saw head tilted 45°)	340 x 40 mm
Double mitre cut, left turntable 45°, saw head tilted 45°	240 x 40 mm
Double mitre cut, right turntable 45°, saw head tilted 45°	240 x 40 mm

7 Setting up and Installation

7.1 Set up the chop- and mitre saw

The chop- and mitre 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 fastened saw!
Check the stability of the saw after mounting it on a stable surface.

For a secure attachment of the saw, there are holes in the 4 saw feet for mounting fastening screws with a diameter of max. 10 mm.

Carry out the following steps to get the saw ready for operation:

Step 1: Move the saw from the transport position to the secured rest position. Press the saw head lightly downwards to release the saw head lock.

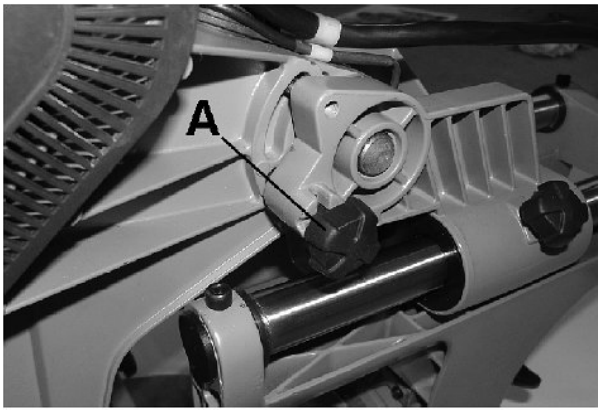


Fig. 5: Saw head locking device

Step 2: Pull out the locking knob (A) on the left side of the saw head approx. 1 cm to lock the saw head, turn it 90° and let it snap back into the unlocked position.

Step 3: Raise the saw head until you hear the lock of the saw head engage in the upper end position.

Step 4: Screw the saw to the saw feet on a stable base.

Step 5: Insert the dust bag (Pos. A, Fig. 6) into the receptacle (Pos. B, Fig. 6) on the back of the saw.

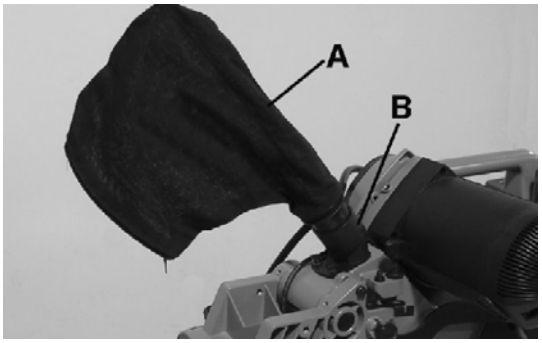


Fig. 6: Dust bag

Step 6: When cutting longer workpieces, mount the support aids (Pos. A, Fig. 7) on the left and right sides of the saw table. Secure the support aids from slipping out by tightening the locking screws (Pos. B, Fig. 7).

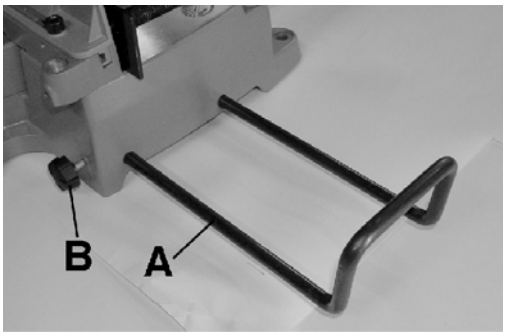


Fig. 7: Side support aids

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.

CAUTION!

All work on the electrical installation may only be carried out by a qualified electrician.

Make sure that the power connection has the same characteristics (voltage, mains frequency, phase position) as the motor.

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

Step 2: Connect the saw to the mains.

8 Operation

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.

NOTE!

The machine is equipped with a starting current limitation. This means that the machine starts up slowly and gently.
The startup noise sounds different from normal operation and may sound like bearing damage. However, the noise is normal, there is no defect at your machine.

Wear hearing protection!

Use protective goggles!

Wear safety boots!

Wear protective clothes!

8.1 Pre-adjustment

8.1.1 Setting the mitre angle (mitre cut)

NOTE!

Select a mitre angle of 0° for a vertical cross-section (90° section)!

In addition to the stepless adjustment of the mitre angle, there are fixed angle positions at 0°, 15°, 22.5°, 30° and 45°.

The angle for the mitre cut is set on the angle scale of the saw table as follows:

Step 1: Loosen the table lock. To do this, turn the adjusting knob for the table arrest open (Fig. 8).

Fig. 8: Setting the mitre angle

Step 2: Use the setting mark and the angle scale with markings to set the desired mitre angle in 1° steps. There are snap-in points for the angles 0°, 15°, 22.5°, 30° and 45°.

Step 3: Lock the table in the set angle position by turning the knob.

8.1.2 Inclination of the saw head (inclined cut)

The saw head can be tilted up to 45° to the left and right (see Fig. 9). Snap-in points exist for 15° and 30° in both directions. Proceed as follows for the inclined position:

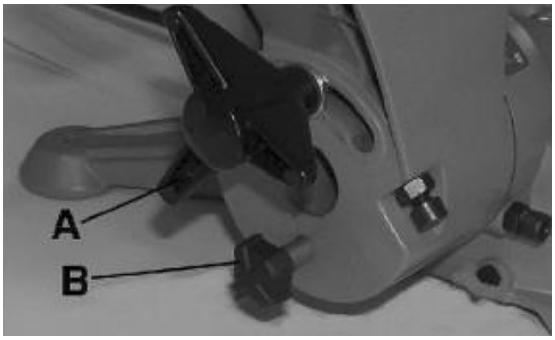


Fig. 9: Adjusting the angle of inclination

Inclined position - stepless

Step 1: Hold the saw head by the saw head retaining handle.

Step 2: Loosen the locking screw (A, Fig. 9) and pull the locking knob (B).

Step 3: Tilt the saw head to the left or right by the desired angle. The angle scale assigned to the tilt position with markings in 1° increments is located at the rear end of the table.

Step 4: Loosen the locking knob and tighten the locking screw.

Inclination - in 15° steps

Step 1: Hold the saw head by the saw head retaining handle.

Step 2: Loosen the locking screw.

Step 3: Pull the locking knob in 15° increments to deactivate locking.

Step 4: Tilt the saw head to the desired 15° step. The angle scale at the rear end of the table, which is assigned to the oblique position, is provided with markings for the 15° steps.

Step 5: Release the locking knob and move the saw head a few degrees until the locking knob audibly engages in the 15° step.

Step 6: Tighten the locking screw.

Step 7: Tilt the locking knob and move the saw head a few degrees.

8.1.3 Set maximum cutting depth

NOTE!

Turn off the saw and unplug the power cord before making the following settings.

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

Fig. 10: Damage to the saw due to incorrect depth adjustment

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).

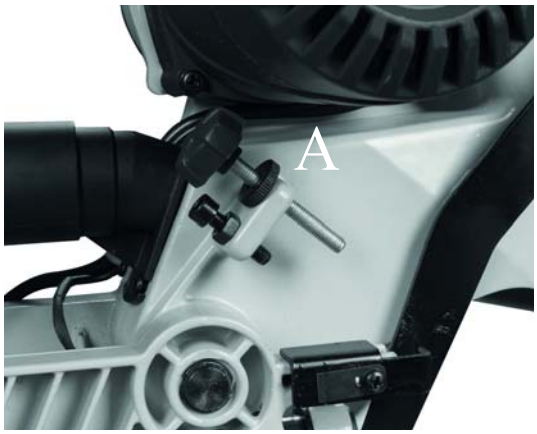


Fig. 11: Set cutting depth

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

8.1.4 Adjust the length

The saw head can be moved lengthwise on 2 pull rails (Pos. 16, Fig. 3) so that a cutting length of up to max. 340 mm. can be achieved.

The longitudinal adjustment can be blocked or cancelled using the locking screw on the right-hand guide bush.

8.1.5 Fixing the workpiece

If a secure support of the workpiece on the turntable is not possible, then use the clamping device to fix the workpiece (Pos. 13, Fig. 3). This consists of a bolt with a screwable clamp. Both elements can be adjusted in height and thus adapted to the workpiece height.

To accommodate the workpiece fixings, there are corresponding mounting holes with a locking screw for the bolt on both the left and right sides of the workpiece stop on the rear side.

In the case of distorted, non-linear workpieces, a secure support can only be achieved if the outwardly bent side of the workpiece is in direct contact with the workpiece stop (see Fig. 12).

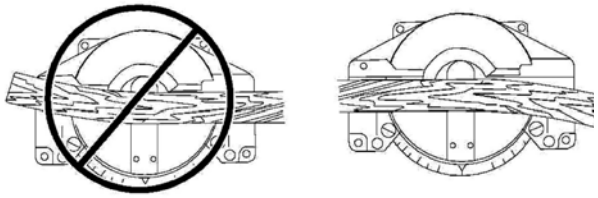


Fig. 12: Deformed workpieces

8.1.6 Adjusting the laser

Step 1: Loosen the screw (Pos. 1, Fig. 13) to loosen the laser.

Step 2: Then set the desired inclination by turning the screws (Pos. 2, Fig. 13) to the left or to the right.

Step 3: Tighten screw 1 again.

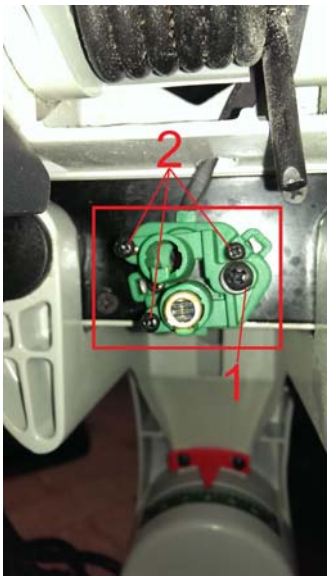


Fig. 13: Adjusting the laser

8.2 Cutting execution

ATTENTION!

Before the first start-up, check the function of the saw and carry out a test run without workpiece.

WARNING!

Do not look in the laser beam!

WARNING!

- Danger of loss of finger limbs!
- Before switching on, check the functionality of the safety devices, in particular the perfect condition of the pendulum protective cover.

  Risk of injury due to ejection of the workpiece and jamming of the saw blade!
- Position the workpiece securely on the turntable support and do not tilt the saw blade by lateral pressure! Reduce the pressure of the saw head on the workpiece if the rotational speed of the saw blade decreases due to excessive load!

  Risk of injury to the eyes due to flying chips or cutting residues!
- Protect your eyes by using protective goggles.

The workpieces that can be machined are determined by the specification of the saw blade.

Step 1: Switch on the laser to mark the cutting line (Fig. 4).

Step 2: Position the workpiece at the workpiece stop and hold it with one hand. If necessary, use the clamping device to fix the workpiece.

Step 3: With the other hand grasp the saw head grab handle and with the thumb pull the release lever (3, Fig.14) for the saw button to the left.

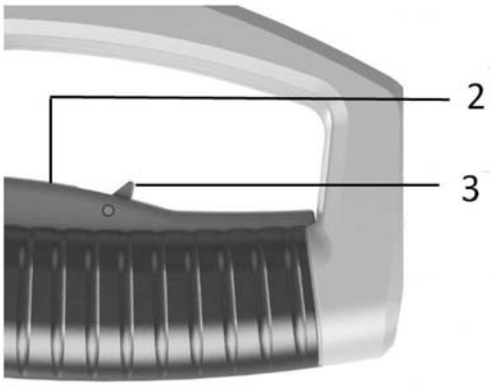


Fig. 14: Turn the saw on / off

Step 4: Press and hold the ON/OFF switch (2, Fig.14).

Step 5: Lower the saw head onto the workpiece and make the cut.

Step 6: When the cut is complete, release the on/off switch (2, Fig.14) and lift the saw head up until the saw head lock engages again.

9 Care, maintenance and repair

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.

9.2 Maintenance and repair

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.

9.2.1 Replacement the saw blade

Use protective gloves!

Step 1: Disconnect the mains plug from the socket outlet.

Step 2: Press the release knob on the handle of the saw head and move the saw head to the upper end position.

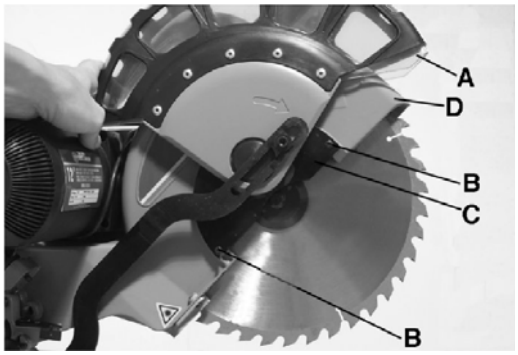


Fig. 15: Remove the protective cover

Step 3: Lift the pendulum protection cover (Pos. A, Fig. 15) and loosen the two screws (Pos. B, Fig. 15). Remove the protection cover (Pos. D, Fig. 15) and safety plate (Pos. C, Fig. 15).

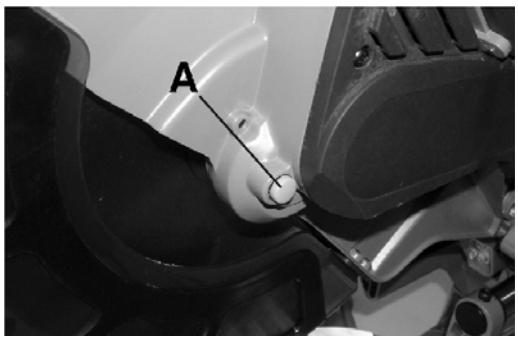


Fig. 16: Fix the saw blade

Step 4: Press locking knob (Pos. A, Fig. 16) and turn the saw blade by hand until it clicks into place.

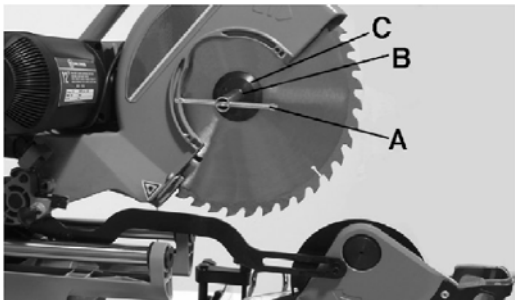


Fig. 17: Unscrew the saw blade

Step 5: Using the socket screwdriver (A, Fig. 17), unscrew the fixing screw B for the saw blade clockwise and remove the clamping flange C.

Step 6: Carefully lift out the saw blade.

Step 7: Insert the new saw blade.

Note: Ensure that the saw blade is installed in the correct direction. The tooth position must correspond to the illustration in Fig. 15. Observe the marking on the saw.

Step 8: Rub a drop of oil onto the clamping flange, then fit the clamping flange.

Step 9: Press the locking button and fix the saw blade and clamping flange by screwing in the fixing screw counterclockwise.

Step 10: Fasten the protective hood with the two screws.

Step 11: Switch on the saw briefly in accordance with the safety regulations and visually check that the saw blade is correctly aligned.

Step 12: If you notice an unsteady run, switch off the saw immediately, unplug the power plug from the socket and correct the saw blade attachment. Repeat the steps several times if necessary. If the saw does not run smoothly, replace the saw blade.

Step 13: You will notice that the saw blade is running smoothly. The saw is now ready for use.

9.2.2 V-belt inspection

Step 1: Disconnect the mains plug from the socket outlet

Step 2: Secure the saw head in the lower position.

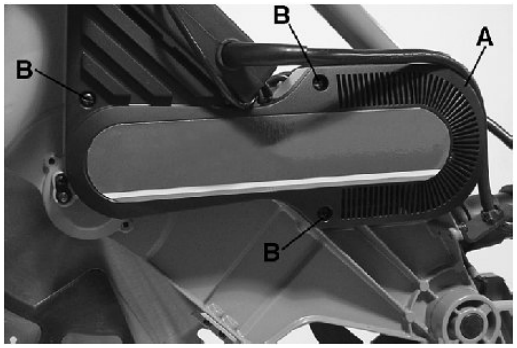


Fig. 18: Remove the cover.

Step 3: Loosen the 3 V-belt cover screws on the right side of the saw using the hex key.

Fig. 19: Remove motor screws

Step 4: Check the V-belt visually for damage. To retighten or replace the V-belt, first loosen the 6 screws (Pos. A, Fig. 19).

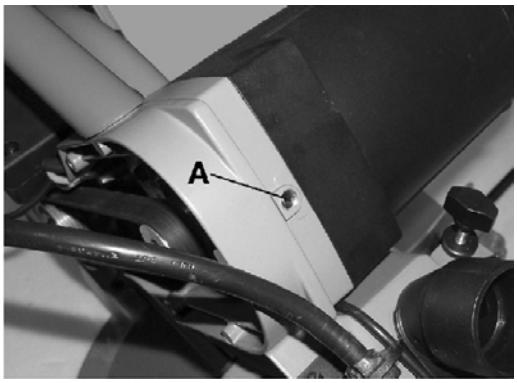


Fig. 20: Tension screw for V-belt

Step 5: Tension or loosen the V-belt tensioning screw (Pos. A, Fig. 20). The correct tension is when the belt can be pressed in approx. 1/2". Check the functioning of the spring tension pulley.

NOTE!

Replace damaged V-belts or belts that can no longer be tensioned by the spring tension pulley.

9.2.3 Carbon brush control

NOTE!

Have the condition of the carbon brushes checked by qualified personnel at regular intervals.

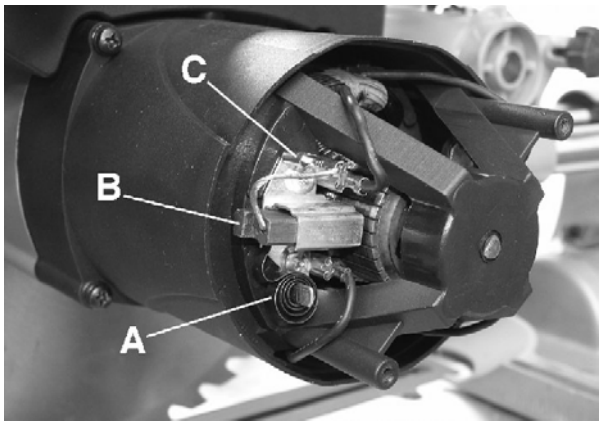
The carbon brushes are wear parts of the motor.

The carbon brushes must be checked every 50 operating hours. If the length of the carbon brushes is less than the marking, they should be replaced at short notice.

Proceed as follows to check or replace the carbon brushes:

Step 1: Open the motor cover with a screwdriver.

Step 2: Loosen the retaining spring (Pos. A, Fig. 21) and carefully remove the carbon brush (Pos. B, Fig.21) from the bearing. Loosen the carbon brush wire (Pos. C, Fig. 21), remove the carbon brush and check.



Mark

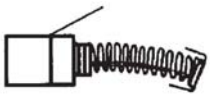


Fig. 21: Replace the carbon brush

Step 3: If the carbon brush is worn to the mark, replace the worn carbon brush with a new one of the same size. Check the ease of movement of the carbon brushes in the bearing.

ATTENTION!

Always replace the carbon brushes in pairs!

Step 4: Repeat the steps for the 2nd carbon brush.

10 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.

10.1 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.

10.2 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.

10.3 Disposing of lubricants

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

10.4 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 Troubleshooting

Fault	Possible cause	Solution
The motor does not start up	No mains power. Connecting cable is defective.	Have the mains power /connection cable checked by qualified personnel.
Motor runs, saw blade does not rotate	V-Belt is broken	Replace the V-belt.
Motor 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. Motor short circuit 2. Motor 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. Motor 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 blade rotates inconsistently under load	V-belt not tightened sufficiently	Check the V-belt tension.
Saw blade does not start or stops under load	V-belt not tightened sufficiently	Check the V-belt tension.
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

12 Electrical circuit diagram

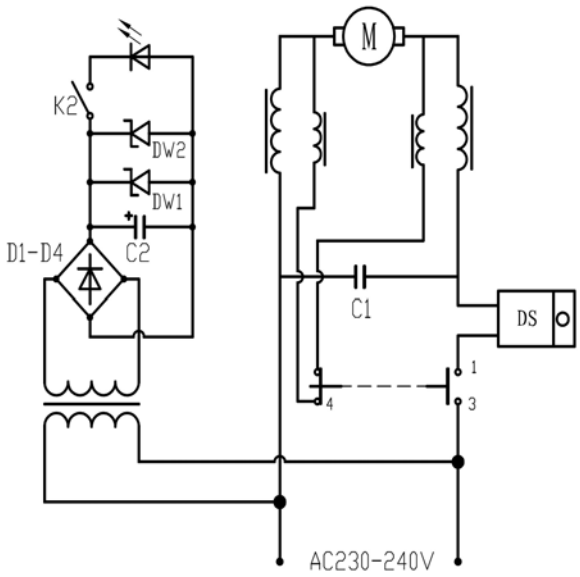


Fig. 22: Electrical circuit diagram

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 drive belt for the chop- and mitre saw KGZ 305 E must be ordered. The drive belt has the number 7 in the spare parts drawing 1.

By ordering spare parts, send a copy of the spare parts drawing (1) with the marked part (drive belt) and marked positon number (7) to the dealer or spare parts department and provide the following information:

- Type of device: **Chop- and Mitre Saw KGZ 305 E**
- Item number: **5702305**
- Drawing number: **1**
- Position number: **7**

The item number of your device:

Chop- and Mitre Saw KGZ 305 E: 5702305

13.2 Spare parts drawing KGZ 305 E

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

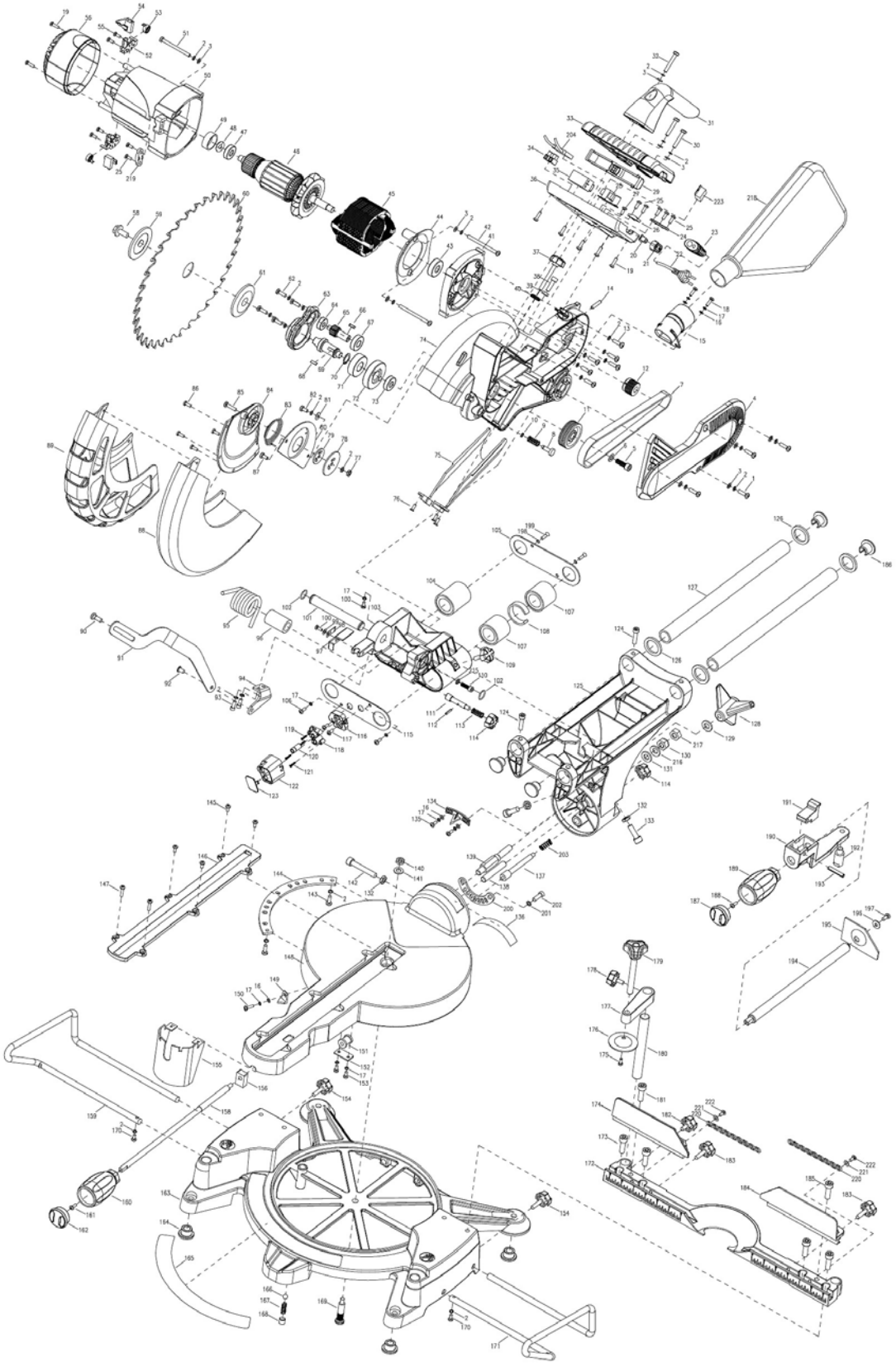


Fig. 23: Spare parts drawing KGZ 305 E

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

Machine designation: KGZ 305 E

Item number: 5702305

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
	2012/19/EU	WEEE - Directive

The following harmonized standards have been applied:

DIN EN 62841-1:2016-07	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 1: General requirements
DIN EN 62841-3-9:2018-11	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-9: Particular requirements for transportable mitre saws
DIN EN 55014-1:2018-08	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
DIN EN 55014-2:2016-01	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
DIN EN 61000-3-2:2015-03	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)
DIN EN 61000-3-3:2014-03	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

Responsible for the documentation: Kilian Stürmer, Stürmer Maschinen GmbH,
Dr.-Robert-Pfleger-Str. 26, D-96103 Hallstadt

Hallstadt, 01.03.2021

Kilian Stürmer
Managing Director

CE

15 Notes


stürmer
OPTIMUM