

Operating instructions

Edge sanding machine

■ KSO 1505



KSO 1505


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Foreword

Dear Customer,

Thank you for purchasing the  **holzkraft** Edge sander.

 **holzkraft** Woodworking machines offer the highest level of quality, technically optimal solutions and impress with an outstanding price-performance ratio. Continuous development and product innovations ensure the latest technology and safety at all times.

Before operating the machine, please read this manual thoroughly and familiarize yourself with the machine. Also ensure that all persons operating the edge sander have always read and understood the manual beforehand. Keep this manual in a safe place near the edge sander.

information

This manual contains information on the safe and proper installation, operation, and maintenance of the edge sander. Continuous compliance with all instructions contained in this manual ensures the safety of both personnel and the machine.

The manual specifies the intended purpose of the edge sander and contains all necessary information for economical operation and a long service life.

The Maintenance section describes all maintenance work and functional tests that must be carried out regularly by the user.


The illustrations and information in this manual may differ from the current state of your edge sander. As a manufacturer, we continually strive to improve and innovate our products; therefore, changes may be made without prior notice. The illustrations of the edge sander may differ in some details from those in this manual, but this does not affect the operation of your machine.

Therefore, no claims can be derived from the information and descriptions. We reserve the right to make changes and errors!

Your suggestions regarding this manual are an important contribution to optimizing the work we offer our customers. Please contact our customer service department if you have any questions or suggestions for improvement.

If you still have questions after reading this manual or if you cannot solve a problem using this manual, please contact your dealer.

Information about the manufacturer:

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Edge sanding machine
KSO 1505 5368155

1 Security

Conventions of representation

-
- provides additional information
-
- calls you to action
-
- Lists
-

This part of the operating instructions

- explains the meaning and use of the warnings used in this manual,
- specifies the intended use of the edge grinding machine,
- draws your attention to dangers that could arise for you and other persons if these instructions are not followed,
- informs you how to avoid dangers.

In addition to the operating instructions, please note




- the applicable laws and regulations, the legal
- provisions for accident prevention, the prohibition,
- warning and mandatory signs.

Always keep the documentation near the edge grinder.

1.1 Safety instructions (warnings)

Hazard classification

We divide safety instructions into different levels. The table below provides an overview of the assignment of symbols (pictograms) and signal words to the specific hazard and (possible) consequences.

pictogram	Signal word	Definition/Consequences
	DANGER!	Failure to observe this instruction will result in imminent danger which will result in serious injury or death. High degree of risk of hazard.
	WARNING!	Failure to observe this instruction may result in a potential hazard that could result in serious injury or death. Medium risk level of hazard.
	CAUTION!	Failure to comply or risky procedures may result in potential hazards that could result in personal injury or property damage. Low risk level of hazard.
	DANGER!	Situation that may cause property damage and impair the function of the product.
	information	Application tips and other important/useful information and notes. No dangerous or harmful consequences for persons or property.

Pictograms that indicate specific hazards



General
Warning signs



Warning about
electric
Tension



Warning about
Hand injuries



Warning of hot
surface



Warning about
automatic
Start-up



Warning of obstacles
on the ground



Warning: Danger of tipping!



Warning of floating
Load!



Warning about
flammable substances!

Pictograms indicating commands/prohibitions



No entry for persons with
pacemakers or
implanted
Defibrillators!



Use hearing protection!



Follow the instructions!



Unplug!



Use eye protection!



Use hand protection!



Use foot protection!



Use protective clothing!

1.2 Intended use

The edge sander is intended exclusively for sanding wood, wood-like or wood-coated materials (fiberboard, chipboard, plywood, laminated and non-laminated boards, etc.)

The machine is intended for commercial use.

Part of the intended use is that you

- follow the operating instructions carefully,
- follow the inspection and maintenance instructions.



1.3 Reasonably foreseeable misuse

Any use of the edge sander that exceeds its intended use or is used in any other way is considered misuse. Operating personnel must be sufficiently qualified or have received appropriate, practical training to operate the edge sander. To avoid misuse, the operating instructions must be read and understood before use.

Possible misuses may include:

- Use of the edge sander on materials other than wood (e.g. processing metal).
- Machining workpieces that are too large or heavy or that are not or insufficiently fixed
- Operating the edge grinder without the intended protective devices functioning.
- Bypassing or modifying the machine or its protective devices.
- Exceeding the performance limits specified in the "technical data".
- Use of the edge grinder in rooms with aggressive, explosive or flammable substances (the edge grinder is not explosion-proof as standard).
- Failure to comply with maintenance instructions.
- Failure to observe signs of wear and damage.
- Service work by untrained or unauthorized personnel.
- Maintenance work on an unsecured machine.
- Deliberate or careless handling of the edge grinder during operation.
- Installation of spare parts and use of accessories and operating materials not approved by the manufacturer.
- Modifications to the edge grinding machine or the use of modified tool systems.
- Outdoor use. The edge sander is intended for indoor use only.
- Overloading of the machine.
- Operating the edge sander even though the operating instructions are incomplete or have not been understood.

WARNING!

If the edge sander is not used as intended

- **dangers arise for the staff,**
- **If the edge grinder and other material assets of the operator are endangered,**
- **the function of the edge grinder may be impaired.**



Improper use of the edge sander and disregard of the safety regulations or the operating instructions exclude the manufacturer's liability for resulting damage to persons or property and result in the expiration of the warranty claim!

1.4 Residual risks

Even if all safety regulations are observed and the machine is used correctly, residual risks still exist, which are listed below.

- Hearing impairments when working for long periods without hearing protection or if the protection is inadequate.
- Electrical hazards caused by contact with live parts (direct contact) or with parts that are under high voltage due to a defect in the machine (indirect contact).
- Danger to the upper limbs in case of accidental contact with the sanding belt. Risk of injury from thrown workpieces.
- Heat buildup on components can cause burns and other injuries. There is a risk of eye injury from flying debris, even when wearing protective goggles.
- Danger from inhaling wood dust.

If the edge grinder is operated and maintained by insufficiently qualified personnel, the edge grinder may pose a hazard due to incorrect operation or improper maintenance.

1.5 Qualifications of staff

Target group

This guide is for

- the operators,
- the operators,
- the personnel for maintenance work.

Therefore, the warnings refer to both the operation and maintenance of the edge grinder.

Clearly and unambiguously define who is responsible for the various activities on the edge sanding machine (operation, maintenance and repair).

Unclear competencies are a security risk!

This manual lists the qualifications required by individuals for the various tasks:

operator

The operator has been instructed by the owner about the tasks assigned to him and the potential dangers associated with improper use. The operator may only perform tasks that go beyond normal operation if specified in these instructions and if the owner has expressly authorized him to do so.

qualified electrician

Due to their professional training, knowledge and experience as well as knowledge of the relevant standards and regulations, the qualified electrician is able to carry out work on electrical systems and to independently identify and avoid potential hazards.

The electrician is specially trained for the working environment in which he or she works and is familiar with the relevant standards and regulations.

Specialist staff

Due to their professional training, knowledge and experience as well as knowledge of the relevant regulations, qualified personnel are able to carry out the work assigned to them and to independently identify and avoid potential hazards.

Instructed person

The instructed person was informed by the operator about the tasks assigned to him and the possible dangers in case of improper conduct.

Authorized persons

Authorized persons for operation and maintenance are the instructed and trained specialists of the operator and the manufacturer.

Only authorized personnel may operate the edge sander! Improper operation can pose a risk to people, the machine, and the environment.

The operator must

- train the staff,
- instruct staff at regular intervals (at least once a year) about
 - all safety regulations concerning the edge grinder,
 - the operation,
 - check the recognized rules of technology
- and the level of knowledge of the staff,
- document the training/instructions,
- Have participation in training/instructions confirmed by signature, check whether the staff
- works in a safety-conscious manner and observes the operating instructions.

The operator must

- have received training in the use of woodworking machines, know their function
- and mode of operation,
- before commissioning
 - have read and understood the operating instructions,
 - be familiar with all safety devices and regulations.

1.6 General safety instructions

- The assembly of the machine and electrical connections must be carried out by an authorized specialist.
- Never work under the influence of illnesses that impair concentration, overtiredness, drugs, alcohol or medication.
- Only switch on the machine immediately before starting work. Do not leave the machine unattended while it is running.
- Switch off the machine and unplug it before replacing wearing parts and consumables.
- Only operate the machine with all safety devices fully and correctly installed and do not modify the machine in any way.
- Never open the protective covers while the edge grinder is in operation.
- Keep the work area and the floor around the edge sander clear of any objects that could compromise your stability or pose a tripping hazard. Check the danger area before and during work to ensure that no unauthorized persons are present.
- Protect the edge sander from moisture and humidity.
- Do not leave any tools, parts or other materials on or near the machine that may cause safety hazards.
- If the power cord is damaged, stop using the machine immediately and have it replaced by a qualified electrician.
- When laying the power cord, make sure it is not crushed, bent, or wet. Protect the power cord from heat, oil, and sharp edges.
- The machine may only be operated by trained personnel. When operating the machine, as well as during maintenance and repair work, the necessary personal protective equipment (safety goggles, protective clothing, safety shoes, hearing protection, etc.) must be worn. Non-slip footwear is recommended when operating the machine.
- Always wear a protective mask while working with material that generates dust during the process.



- Chemicals and solvents that could damage painted surfaces should not be used in the immediate vicinity of the machine.
- Wear tight-fitting clothing and remove any items that could get caught in the machine. Wear a hairnet if necessary.
- Keep body parts away from moving parts of the machine.
- In the event of a malfunction or unusual behavior, operation must be stopped immediately until the cause has been determined and the fault rectified. Only then may the machine be put back into operation. The edge sander may only be operated within the specified performance limits (technical data).
- Do not overload the machine! It works better and more safely within its specified power range. Do not use the work surface as a storage area for objects.
- Do not use spare parts or accessories not approved by the manufacturer.

MACHINE-SPECIFIC SAFETY MEASURES

- Before use, inspect all workpieces for foreign objects such as nails and screws. Do not use abrasives that are cracked or deformed.
- Wear gloves when changing abrasives.
- Before installing the sanding belts, make sure that the roller surfaces are well cleaned and free from damage.
- Before switching on the machine, check that all repair and adjustment tools have been removed. Do not use compressed air to clean the machine or remove chips. All protective and safety devices must be reinstalled immediately after repair or maintenance is completed.

FIRE HAZARD

- Make sure there are no flammable, ignitable materials near the work area.
- Have suitable extinguishing agents ready.
- Avoid the spread of open flames due to sparks, slag and glowing material.
- Make sure that fire protection devices are located near the work area.



1.7 Safety devices

WARNING!

Danger to life due to non-functioning safety devices!

If safety devices do not function or are disabled, there is a risk of serious injury or even death.



- Never override or bypass safety devices.
- Before starting work, check that all safety devices are functional, accessible and correctly installed.

The following safety devices are installed on the edge grinder:

Emergency stop button



Pressing the emergency stop button (Fig. 1-1) interrupts the power supply to the machine and shuts off the torque. The sanding belt will stop. After pressing the button, it must be turned clockwise to release the emergency stop button so that it can be restarted. Any hazards associated with restarting the machine must be eliminated in advance.

Fig.1-1: Emergency stop button

1.8 Safety markings

The following safety markings and symbols are attached (Fig. 1-3), which must be observed and followed:



Fig.1-2: Safety signs - 1 mandatory sign: Observe instructions for use/operating instructions, wear protective clothing, wear eye protection, wear safety shoes, wear hearing protection, unplug before opening, operation with a tie prohibited, operation with long hair prohibited, warning of a hazardous area, warning of hand injuries
 2 warning signs: Warning of electrical voltage

A notice:

Damaged or missing safety symbols on the edge grinder can lead to incorrect handling, resulting in personal injury and property damage. The safety symbols attached to the edge grinder must not be removed. Damaged safety symbols must be replaced immediately.



The following should be noted:

- If the safety signs fade or become damaged during the service life of the machine, new signs must be installed immediately.
- From the moment the signs are no longer immediately recognizable and understandable at first glance, the edge grinder must be taken out of service until the new signs are installed.

1.9 Safety data sheets

Safety data sheets for hazardous goods are available from your specialist dealer or by calling +49 (0)951/96555-0. Specialist dealers can find safety data sheets in the download area of the partner portal.

2 Technical data

General data	KSO 1505
Length (product) approx.	1515 mm
Width/depth (product) approx.	550 mm
Height (product) approx.	1150 mm
Weight (net) approx.	207 kg
Connection voltage	400 V
Phase(s)	3
Type of current	AC
Mains frequency	50 Hz
Sanding belt length	2750 mm
Sanding belt width	150 mm
Belt rotation speed(s)	16 m/s
Grinding surface length	1010 mm
Grinding surface width	190 mm
Grinding height max.	170 mm
Grinding roller diameter ^Ø	38/50/75 mm
Drive roller diameter	180 mm
Swiveling grinding unit	0 - 90°
Work table length	900 mm
Work table width	305 mm
Work table height adjustment	120 mm
Table height min.	910 mm
Table height max.	1030 mm
Workpiece width max.	1010 mm
Workpiece height max.	150 mm
Suction nozzle diameter	100 mm
Noise emission Average value at idle without extraction	85 dB
Starting current	25 A
Rated current	4 A
Oscillation stroke	15 mm
Output power	2.2 kW

2.1 Nameplate




Kantenschleifmaschine Edge Sanding Machine		 	
Typ Type	KSO 1505	Serien-Nr. Serial no.	
Artikel-Nr. Item no.	5368155	Baujahr Year of manufacture	Monat/Jahr month/year
Abgabeleistung Output power	2,2 kW	Netzanschluss Power connection	400 V/3 ~/50 Hz
Schleifbandlänge Sanding belt length	2750 mm	Schleifbandbreite Sanding belt width	150 mm
 www.holzkraft.de		Stürmer Maschinen GmbH Dr.-Robert-Pfleger-Str. 26, 96103 Hallstadt Deutschland / Germany	

Fig.2-1: Type plate KSO 1505

3 Transport, packaging, storage

3.1 Transportation

Check the Edge sanding machine after delivery on visible Transport damage. If you discover any damage to the edge sander, report it immediately to the transport company or dealer.

3.1.1 Information on transport

Improper transport, installation and commissioning is prone to accidents and can cause damage or malfunctions to the edge sander, for which we accept no liability or guarantee.

Transport the delivered goods to the installation site using a sufficiently dimensioned industrial truck or crane, ensuring they are secured against shifting or tipping. The surface on which the edge grinder is located must be able to support the weight of the edge grinder!

WARNING

DANGER TO LIFE IF THE LOAD FALLS!

Severe to fatal injuries can occur if machine parts tip over or fall during transport. Damaged or insufficiently strong lifting gear and load-slinging devices can break under load, thus posing an immediate, unforeseeable threat to life!



- Only use transport equipment and load-slinging devices that can support the total weight of the edge grinder and that are in perfect condition!
- Inappropriate attachment points can fail, causing the load to fall. When transporting the machine, only attach the load hook to suitable attachment points on the load.
- Avoid overloading! Observe the total weight of the edge sander, which is specified in the "Technical Data." When unpacked, the weight of the edge sander can also be read on the rating plate.
- Secure loads carefully. Never step under or into the swinging area of suspended loads!
- Observe the accident prevention regulations of the professional association responsible for your company or other supervisory authorities.
- Please follow the instructions and information on the transport box.
- When lifting and lowering a load, ensure that the operator remains out of reach of the load at all times in case it slips or falls.
- Do not make sudden changes in the direction of movement! A lifted load must never be subjected to impact or shock loads.
- To minimize stress on the edge sander and prevent accidents, never leave heavy loads suspended for extended periods. Only lift loads when they need to be moved.
- Never leave a lifted load unattended. Lower the load when leaving the work area.

3.1.2 General hazards during internal transport

WARNING RISK OF TIPPING!

The machine may only be lifted if it is adequately secured. Employees must stay out of the danger zone and out of reach of the load. Warn employees and inform them of the hazard.



Transport may only be carried out by authorized and qualified personnel. Insufficiently qualified personnel may fail to assess the risks involved in transporting the machine and may expose themselves and others to the risk of serious or fatal injury. Act responsibly during transport and always consider the consequences. Avoid daring and risky actions.

Particularly dangerous are inclines and declines (e.g., driveways, ramps, etc.). If driving on such sections is unavoidable, special caution is required.

Before starting transport, check the transport route for possible hazards, unevenness and faults as well as for sufficient strength and load-bearing capacity.

Hazardous areas, unevenness, and defects must be inspected before transport. The removal of hazardous areas, defects, and defects by other employees during transport poses significant risks.

Careful planning of internal transport is therefore essential.

3.1.3 Transport with a forklift or pallet truck

For shipping, the machine must be bolted to two sufficiently dimensioned wooden beams to ensure safe transport. When transporting the unpacked machine, all covers and power cables must be secured to the machine frame, and the edge sander must be secured against slipping.

A NOTICE!

Please also note the information on transport in the previous sections!

- Proceed carefully when unloading the transported items, during delivery, and during internal transport, and observe the symbols and instructions on the packaging. Remove
- packaging only shortly before assembly.
- Only lift/load the machine at the designated location.



3.2 Packaging

All packaging materials and packaging aids used in the edge sanding machine are recyclable and must be recycled.

Shred cardboard packaging components and dispose of them in the waste paper collection.

The films are made of polyethylene (PE), and the padding is made of polystyrene (PS). These materials can be disposed of at a recycling center or with your local waste disposal company.

3.3 Storage

Thoroughly clean the edge sander before storing it in a dry, clean, dust-free, and frost-free environment. Do not store it in the same room as chemicals.

If the edge sander is stored for a certain period of time before commissioning, the following must be observed:

- Do not store the edge sander in direct sunlight or extreme temperatures. Conditions such as rain, snow, or cold can damage electrical components. Regularly lubricate unpainted parts of the machine
- with anti-rust grease.

Optimal storage temperature: 18-23°C at non-tropical humidity.

4 Machine description KSO 1505

Illustrations in this operating manual are for general understanding purposes only and may differ from the actual design.

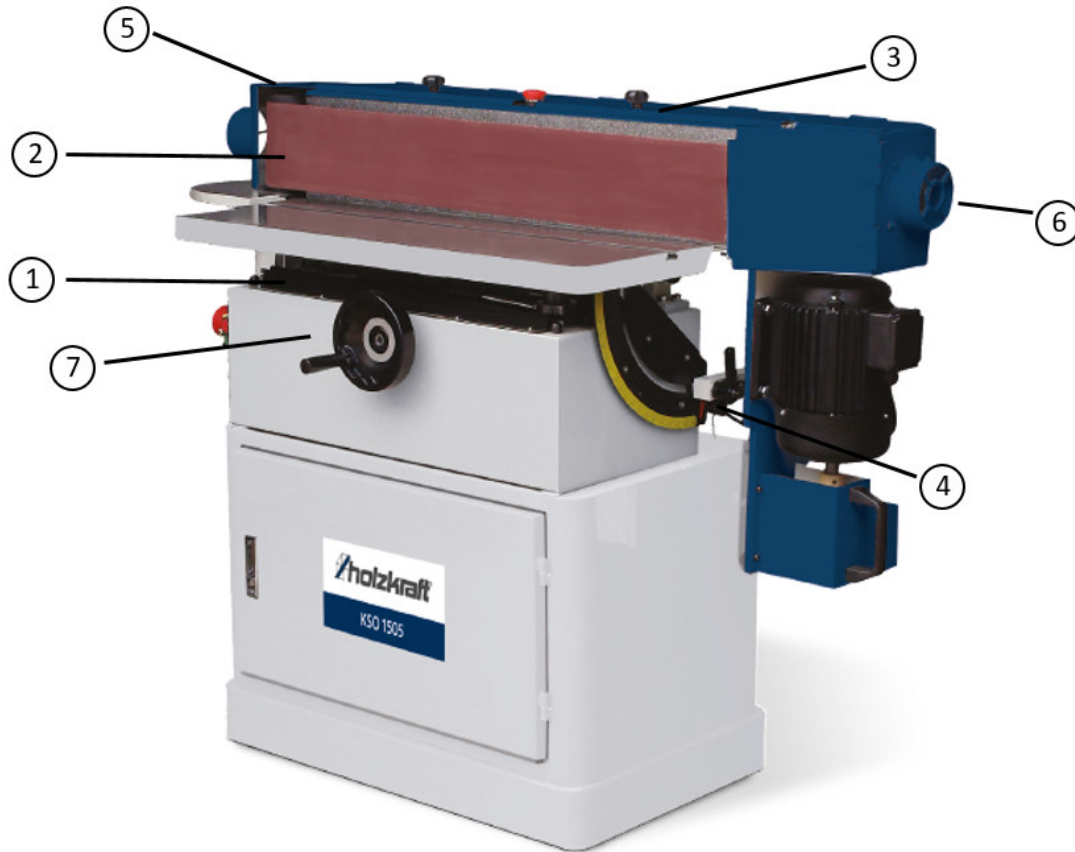


Fig.4-1: Machine description KSO 1505

- 1 Adjustment lever height adjustment
- 2 sanding belt
- 3 Sanding belt cover
- 4 Adjustment lever with angle
- 5 scale Cover of the tension
- 6 roller Dust connection
- 7 Handwheel for swiveling the grinding unit

5 Scope of delivery

KSO 1505
1x sanding belt 2750x150 mm/grain 80
1x grinding sleeve Ø38 mm/ grain 80
1x grinding sleeve Ø50 mm/ grain 80
1x grinding sleeve Ø75 mm/ grain 80

6 Adjusting the edge sander

6.1 Adjusting the work table

Step 1: Loosen the two adjustment levers (Pos. A, Fig. 6-1)) and (Pos. B, Fig. 6-1) on the right and left side.

Step 2: Turn the handle in front of the work table upwards and swing it to the desired height.

Step 3: Lock the two adjustment levers (Pos. A and B) again to ensure the stability of the work table.

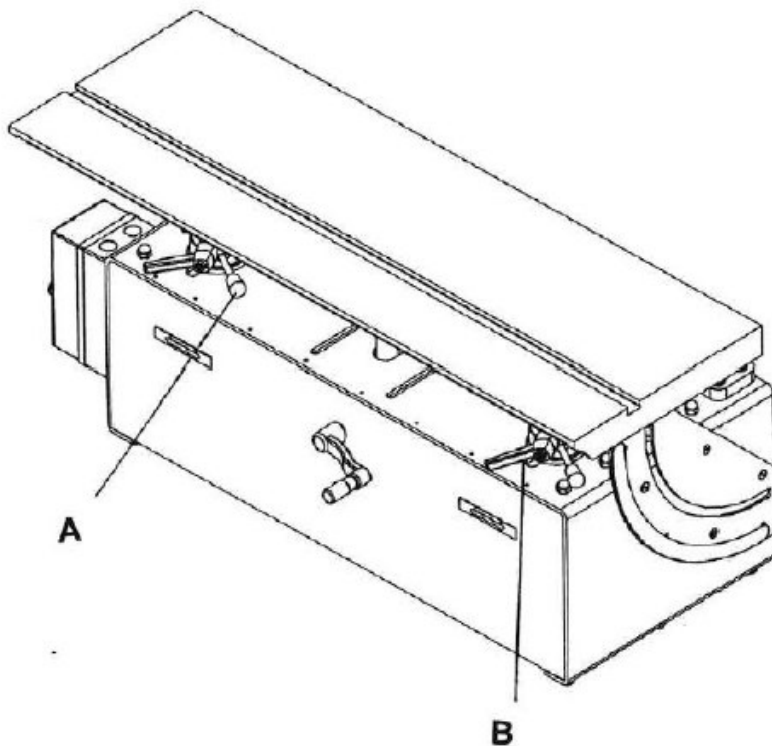


Fig.6-1: Adjust the work table

7 Assembly of the edge sander

7.1 Assembly/disassembly of sanding belt

Step 1: Open the roller cover (Pos. C, Fig. 7-1) by removing the two screws on top of the
Remove cover.

Step 2: Lift the handle (Item D, Fig. 7-1) to release the sanding belt (Item E, Fig. 7-1). Step 3: Then remove
the sanding belt and replace it with a new one.

Step 4: Then reinsert it by pushing back the handle bar (Pos. D, Fig. 7-1) to secure the
To tension the sanding belt.

Step 5: After finishing the work, close the roller cover by loosening the two screws
Tighten the top of the cover again.

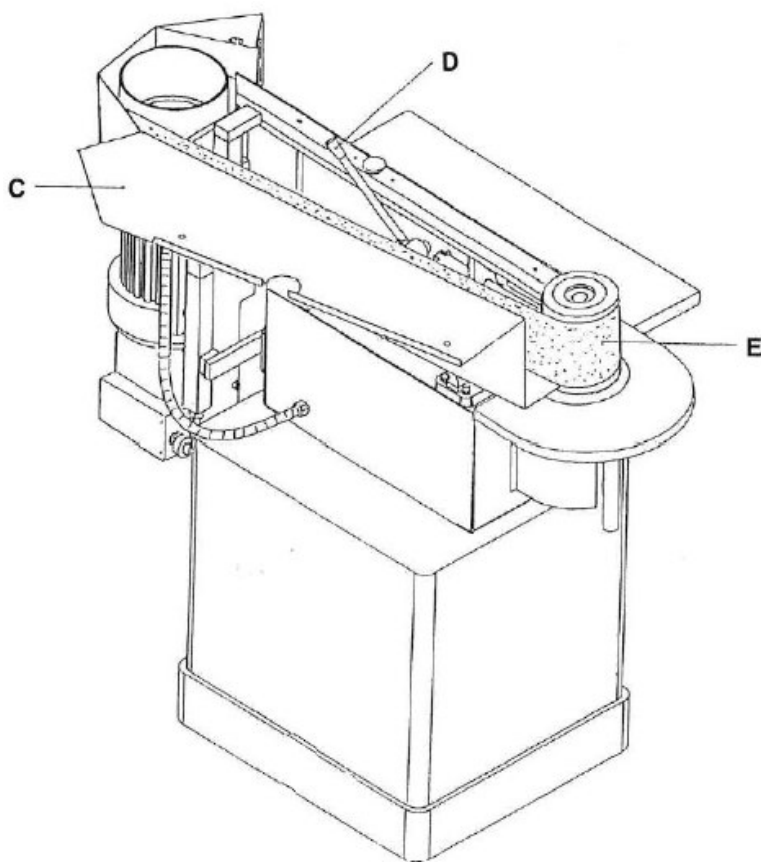


Fig.7-1: Assembly/disassembly of sanding belt

7.2 Aligning the sanding belt

Step 1: Loosen nut (Pos. F)

Step 2: Turn the nut (Item G) clockwise or counterclockwise to adjust the belt guide. Step 3: Once the belt is aligned, retighten the nut (Item F).

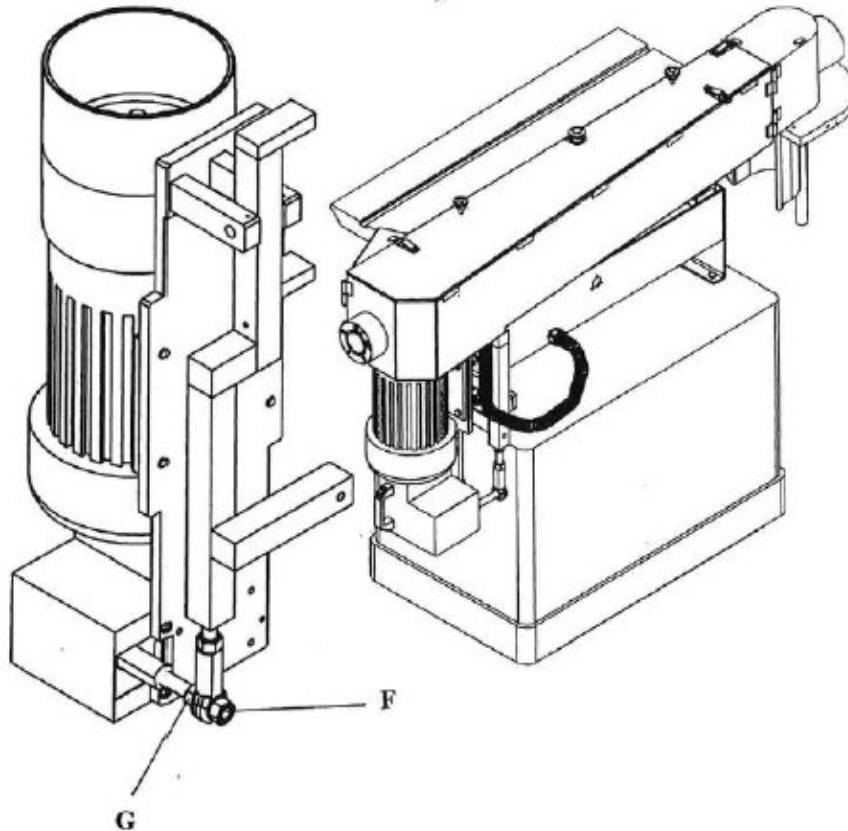


Fig.7-2: Aligning the sanding belt

7.3 Installation of the dust connection before commissioning

Mount the dust opening (Pos. A, Fig. 7-3) by firmly tightening the four round head screws (Pos. B, Fig. 7-3).

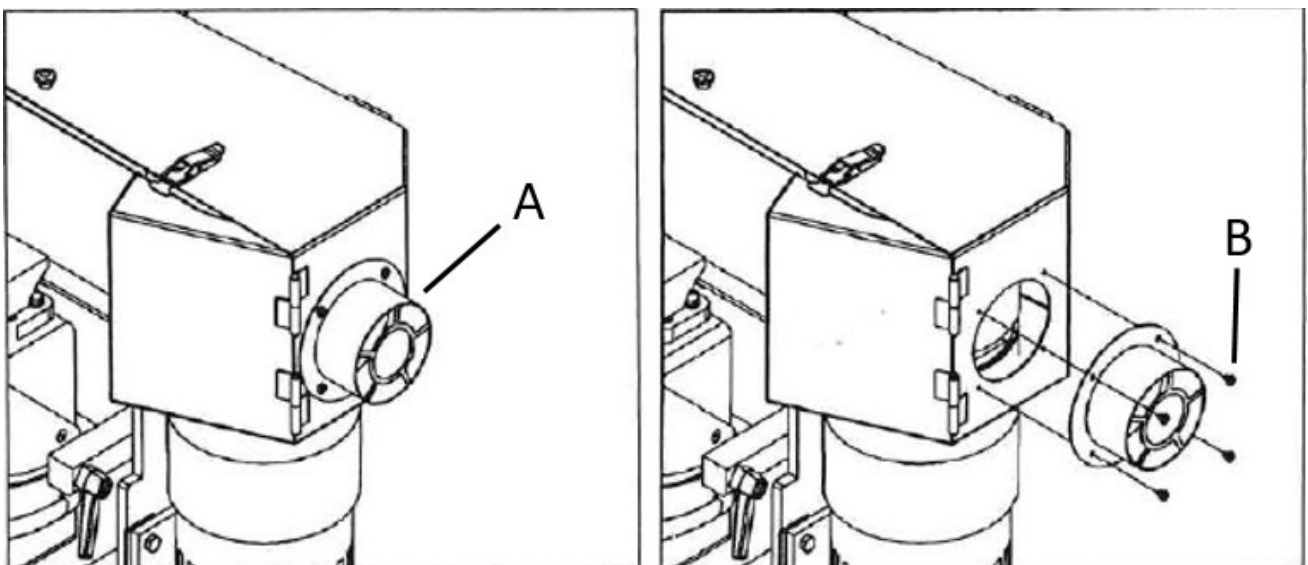


Fig.7-3: Mounting dust connection

8 Commissioning of the edge grinding machine

8.1 Requirements for the installation site

In order to achieve good functionality and a long service life of the edge sander, the installation location should meet the following criteria.

- The foundation must be level, solid, and vibration-free. The foundation must not allow lubricants to penetrate.
- The foundation should be able to support the weight of the machine. The installation location or work area must be dry and well-ventilated.
- There must be sufficient space for operators, the material to be processed, and for adjustment and maintenance work.
- The installation location must have sufficient lighting (see Workplace Ordinance and DIN EN 12464).

8.2 Electrical connection

Make sure that the mains voltage matches the data specified on the rating plate before connecting the edge grinder to the power supply.

WARNING!

Danger to life from electrical voltage!

Contact with live components poses an immediate risk of death from electric shock. Work on the electrical system may only be carried out by qualified electricians.



In the event of a malfunction or failure, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock.

This appliance is equipped with a power cord with a protective conductor and a grounded plug. The plug must be plugged into a suitable outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the supplied plug. If it does not fit the outlet, have a qualified electrician install the appropriate outlet.

Improper connection of the device's grounding conductor may result in electric shock.

9 Checking and testing the security systems

Testing the function of the emergency stop button

- Check the function of the emergency stop button weekly. Press the emergency stop button while the machine is running. The tool in use must stop within 10 seconds.

If the edge sander does not stop, stop the machine immediately and contact customer service.

Checking safety labels

- Regularly check all safety labels on the machine to ensure they are present and legible. Safety labels must be complete and always legible.

10 Operation

10.1 Switching on and off

- To start the edge sander, press the green main switch.
- To stop the edge sander, press the red off button.

10.2 Working techniques

The following working techniques are possible with the edge sanding machine:

- Vertical and horizontal grinding
- Grinding on the cylindrical grinding unit

10.3 Vertical and horizontal grinding

Step 1: First, loosen the two knobs (Pos. A, Fig. 10-1) and (Pos. B, Pos. 10-1) under the work table and pull the table backwards.

Step 2: Loosen the adjustment knob (Pos. H) on the scale and set the desired angle by You move the plate (Item I). Lock the adjustment knob (Item H, Fig. 10-1) again once the angle has been set.

Step 3: Slide the work table forward until it is close to the plate and pull
Tighten the two knobs (pos. A and B) again to ensure the stability of the table.

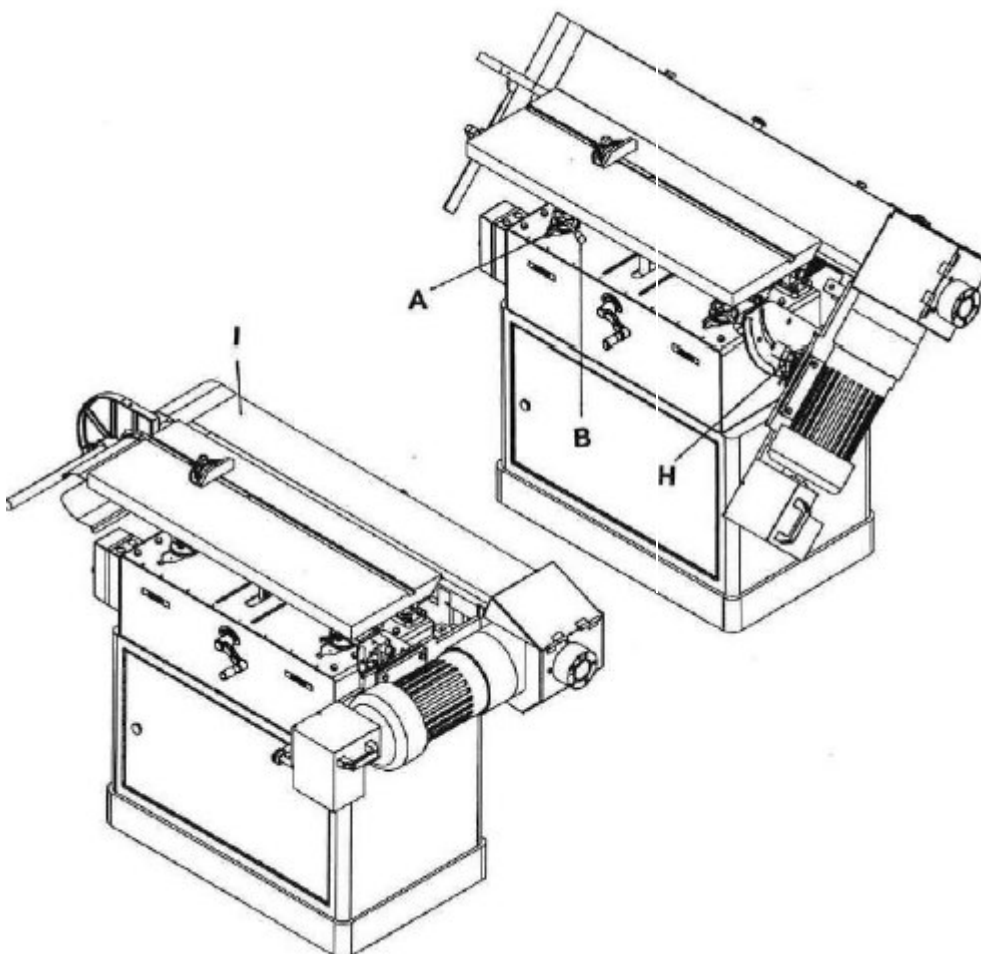


Fig.10-1: Vertical and horizontal grinding

10.4 Cylindrical grinding

Step 1: Open the roller cover (Item J, Fig. 10-2) and fix it to the clamping position.

Step 2: Loosen the three Allen screws. Remove the tension pulley cover (Item K, Fig. 20-2).
 and mount the spindle of the sanding roller (Pos. L, Fig. 10-2) by tightening the three M5 x 15L screws.

Step 3: Insert the rubber drum (Pos. M, Fig. 10-2) by inserting a washer and a
 Use a hex screw. Then you can start using the cylindrical grinder.

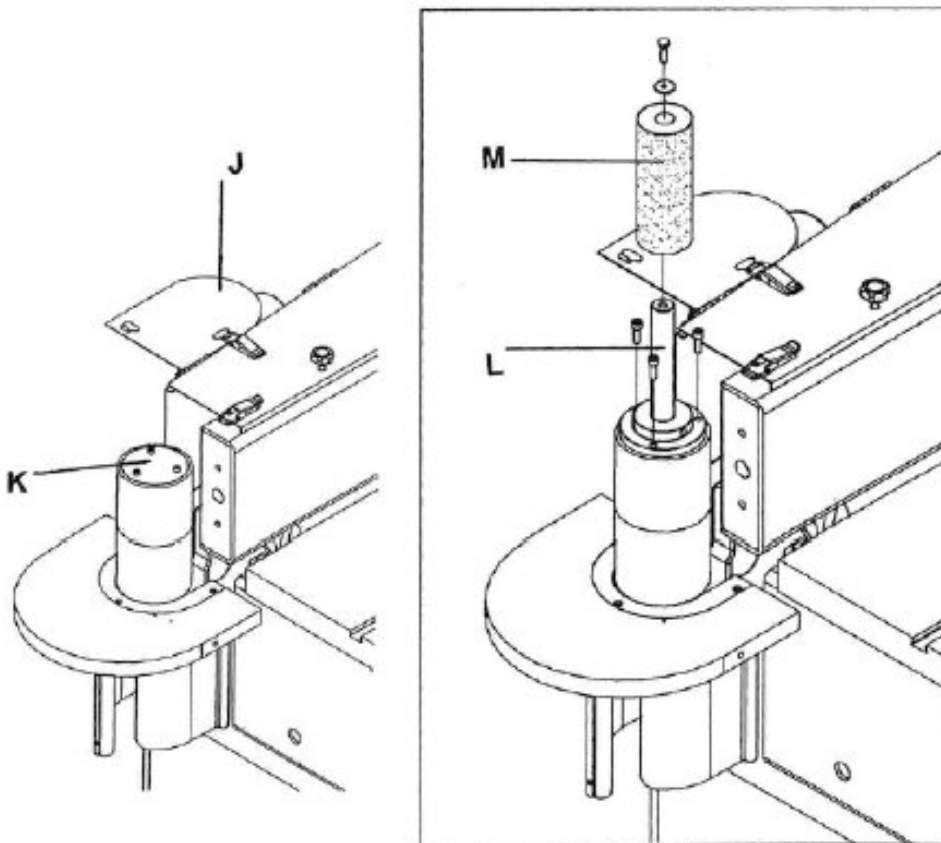


Fig.10-2: cylindrical grinding

10.4.1 Grinding outer radii and curves

This working technique is used for grinding external radii and curves on the side work table of the machine.



Fig.10-3: Grinding outer radii and arcs

11 Care, maintenance and repair

Regular and thorough maintenance of your edge sander is essential for a long service life, good working conditions, and maximum productivity. Ensure that maintenance work is performed regularly.

Warning! Danger if personnel are insufficiently qualified:

Inadequately qualified personnel cannot assess the risks to the user posed by improper repair work on the edge sander and expose themselves and others to the risk of serious injury. Have all maintenance work performed only by qualified personnel. Disconnect the edge sander from the power supply!



If maintenance and repair work on the edge sander is carried out by persons who are not authorized to do this work, the warranty claim against the manufacturer will be void.

11.1 Cleaning and care

The edge grinder must always be kept clean. Never use harsh cleaning agents for cleaning. These can damage or destroy components.

- All plastic parts and painted surfaces may only be cleaned with a soft, damp cloth and a little neutral cleaner.
- Remove any excess grease or spilled oil with a dry, lint-free cloth.

11.2 Maintenance

interval	Task
Daily	Visual inspection of all electrical connections and the power supply of the edge grinder.
	Clean the machine of work residue, dust, chips, etc. Ensure accessibility to the machine.
Weekly	Cleaning of guides and stops.
	Check sliding parts for smooth movement
Monthly	Checking the safety of the electrical system.
	To check the functionality of the closures of the various mechanical components.

12 Faults, causes and remedies

Disturbance	possible cause	remedy
Engine does not start	1. Defective or broken "ON-OFF" switch. 2. Defective or damaged switch cable. 3. Defective or damaged switch relay. 4. Burnt-out engine. 5. Blown fuse in the house.	1-3. Replace any defective or damaged parts before using the grinder. 4. Contact your local authorized service station. Any attempt to repair this engine may be hazardous unless the repair is performed by a qualified technician.
Machine is Grinding slower	1. The operator applies too much pressure to the workpiece.	1. Press the workpiece less firmly when placing it on the sanding surface.
Sanding belt runs itself	1. Sanding belt is not aligned correctly.	1. Align the sanding belt correctly. See Chapter 7.2.
Wood burns during the Grinding process	1. The grinding wheel is bonded with resin. 2. Excessive pressure applied to the workpiece.	1. Replace belt or pulley. 2. Reduce the pressure applied to the workpiece.

13 Spare parts

Risk of injury due to the use of incorrect spare parts!

The use of incorrect or faulty spare parts may endanger the operator and cause damage and malfunctions.



Stürmer Maschinen GmbH assumes no liability or warranty for damages or malfunctions resulting from non-compliance with these operating instructions. For repairs, use only flawless and suitable tools, original spare parts, or parts expressly approved by Stürmer Maschinen GmbH.

released

Series parts.

The use of unauthorized spare parts will void the manufacturer's warranty.

Information about technical support

Repairs covered by the warranty may only be carried out by service technicians authorized by us.

13.1 Ordering spare parts

Spare parts can be obtained from your dealer.

Send a copy of the spare parts drawing with the marked components to the dealer and state the following:

- Article number
- Model name
- Date of manufacture
- Position numbers of the components and, if applicable, corresponding spare part drawing number
- Quantity
- Desired shipping method (mail, freight, sea, air, express)
- Shipping address

Spare parts orders without the above information cannot be considered. If the shipping method is not specified, shipping will be at the supplier's discretion.

Information about the model type, article number and year of manufacture can be found on the type plate attached to the edge sander.

Example

The motor for the KSO 1505 edge sander must be ordered. The tension pulley is numbered 60 in spare parts drawing 2.

When ordering spare parts, send a copy of the spare parts drawing with the component (tension pulley) and the marked position number (60) to the specialist dealer and provide the following information:

- | | |
|-------------------|----------|
| - Article number | 5368155 |
| - Model name | KSO 1505 |
| - Drawing number | 2 |
| - Position number | 60 |

13.2 Spare parts drawings KSO 1505

Spare parts drawing 1

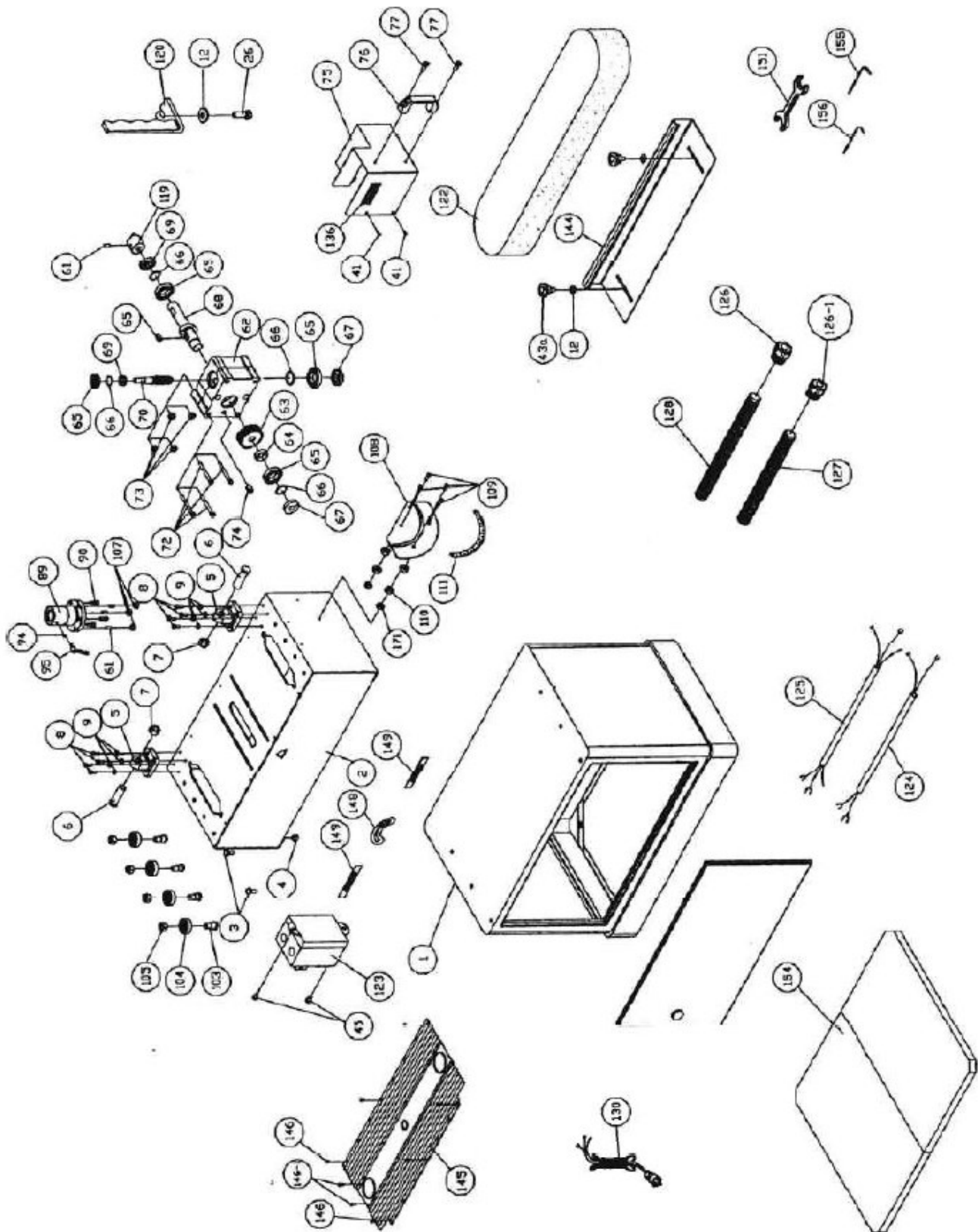


Fig.13-1: Spare parts drawing 1

Spare parts drawing 2

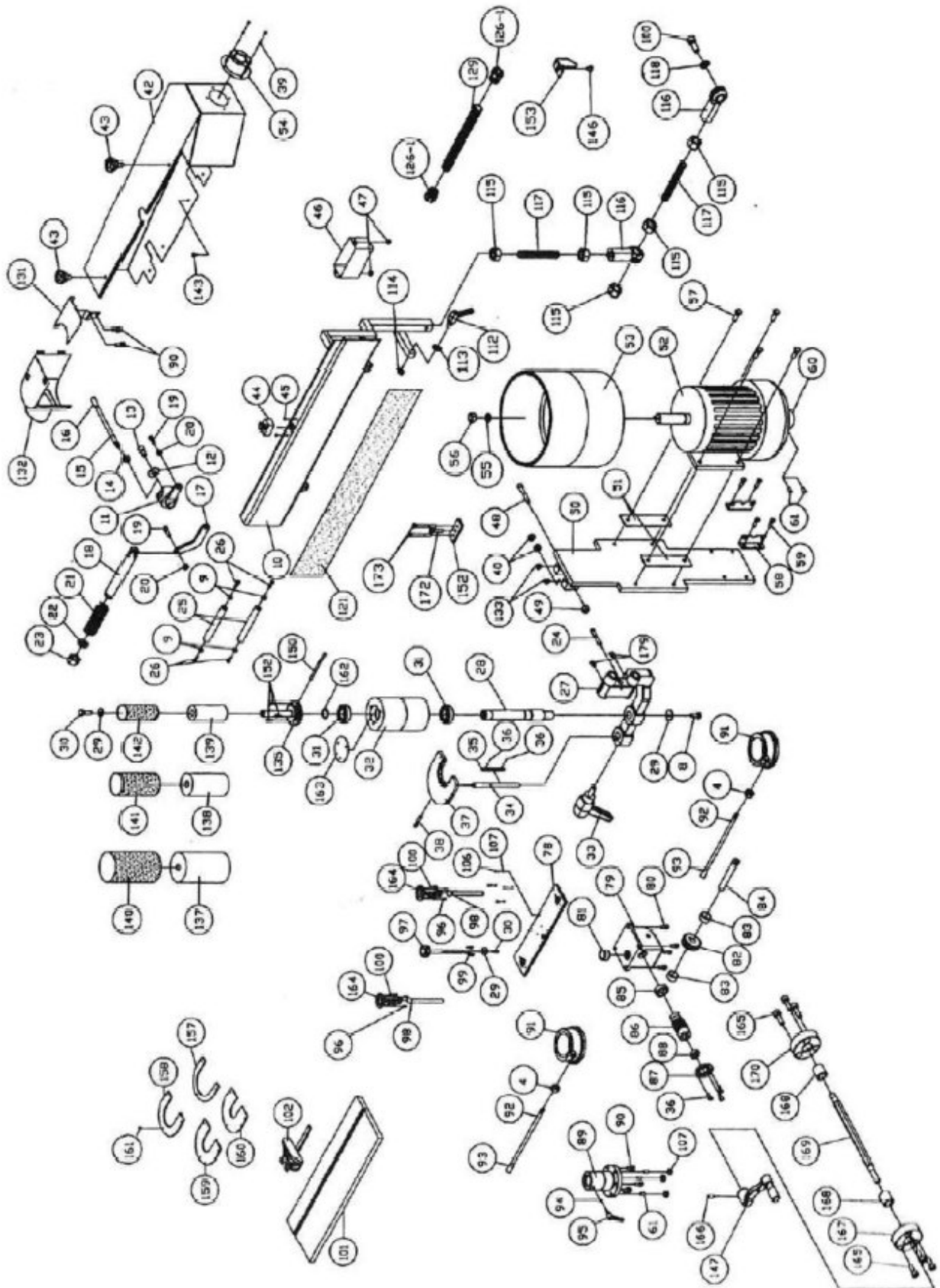


Fig.13-2: Spare parts drawing 2

13.3 Electrical circuit diagrams KSO 1505

Electrical diagram 1

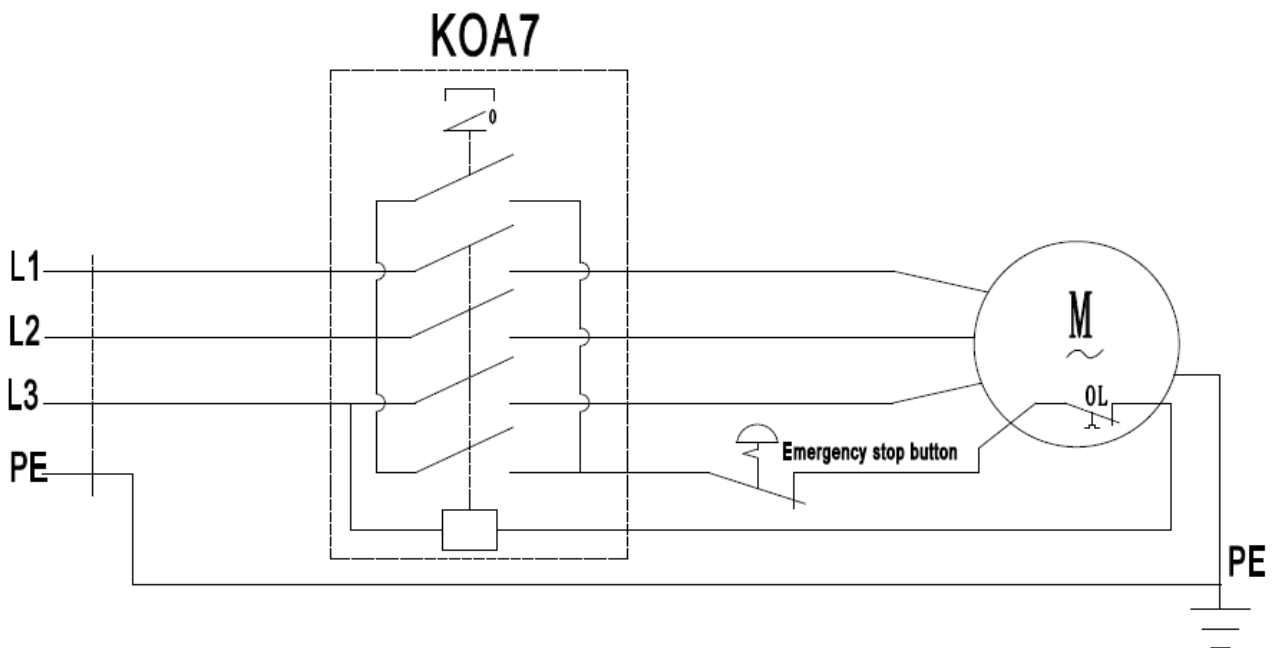



Fig.13-3: Electrical circuit diagram 1

14 EU declaration of conformity

According to Machinery Directive 2006/42/EC Annex II 1.A

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

Product group:  Woodworking machines

Type designation: Edge sanding machine Article number

Product name: * ☐ KSO 1505 ☐ 5368155

Serial number: * _____

Year of construction: * 20_____

* Fill in these fields according to the information on the type plate

complies with all relevant provisions of the above-mentioned Directive and the other standards applied, including any amendments thereto in force at the time of the declaration.

Other applicable EU directives: 2014/30/EU EMC Directive
2015/863/EU RoHS Directive

Relevant EU regulations:

EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction
EN ISO 19085-1:2021	Woodworking machines - Safety - Part 1: Common requirements
EN ISO 19085-8:2021	Woodworking machines - Safety - Part 8: Wide belt sanders for calibrating and sanding straight workpieces
EN IEC 55014-1:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar equipment - Part 1: Emission
EN IEC 55014-2:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar equipment - Part 2: Immunity - Product family standard
EN IEC 61000-3-2:2019 + A1:2021	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic currents (equipment input current ≤ 16 A per phase)
EN IEC 61000-3-11:2019	Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with a rated current ≤ 75 A per phase and subject to a special connection condition
EN 60204-1:2018	Safety of machinery - Electrical equipment of machines - Part 1: General requirements

Name and address of the person authorized to compile the technical documentation: Kilian Stürmer,
Stürmer Maschinen GmbH, Dr.-Robert-Pfleger-Str. 26, D-96103 Hallstadt



Kilian Stürmer (Managing Director)
Hallstadt, November 6, 2024



15 Attachment

15.1 Copyright

The contents of this manual are protected by copyright and the sole property of Stürmer Maschinen GmbH. Their use is permitted within the scope of the edge sander's operation. Any other use is prohibited without the written permission of the manufacturer. Distribution, reproduction, and use of this document, as well as the communication of its contents, are prohibited unless expressly permitted.

Violations will result in compensation for damages.

We register trademark, patent, and design rights to protect our products, where possible in individual cases. We vigorously oppose any infringement of our intellectual property.

Technical changes reserved at any time.

15.2 Limitation of liability

All information and instructions in the operating instructions have been compiled taking into account the applicable standards and regulations, the state of the art and our many years of knowledge and experience.

In the following cases, Stürmer Maschinen GmbH assumes no liability for damages:

- Failure to follow the operating instructions,
- improper use, use of unqualified and untrained
- personnel, unauthorized modifications,
-
- Technical modifications, use of
- unauthorized spare parts.



The actual scope of delivery may differ from the explanations and illustrations described here in the case of special designs, the use of additional ordering options or due to the latest technical changes.

The obligations agreed in the supply contract, the general terms and conditions as well as the delivery conditions of the manufacturer and the legal regulations valid at the time the contract is concluded apply.

15.3 Storage

DANGER!

If incorrect and improper storage can Components the Edge sander may be damaged or destroyed. Store the packaged or unpacked parts only under the specified environmental conditions.



Consult your dealer if the machine and accessories need to be stored for longer than three months and under environmental conditions other than those specified.

15.4 Disposal instructions / recycling options:

Please do not simply throw the packaging and later the used product into the environment, but dispose of both properly according to the guidelines established by your city/municipal administration or the responsible waste disposal company.

15.4.1 Decommissioning

CAUTION!

Obsolete machines must be taken out of service immediately and professionally to avoid later misuse and danger to the environment or people.



- Dispose of all environmentally hazardous operating materials from the old device.
- If necessary, disassemble the machine into manageable and recyclable components and assemblies.
- Dispose of the machine components and operating materials in the designated disposal methods.

15.4.2 Disposal of electrical equipment

Electrical devices contain a variety of recyclable materials as well as environmentally harmful components.

These components must be disposed of separately and properly. If in doubt, contact your local waste disposal service.

If necessary, the assistance of a specialised waste disposal company may be required for processing.

15.4.3 Disposal of lubricants

The lubricant manufacturer provides disposal instructions for the lubricants used. If necessary, ask for the product-specific data sheets.

15.5 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 devices).



The symbol on the product or its packaging indicates that this product shall not be treated as normal household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help protect the environment and the health of others. Improper disposal of this product can harm the environment and human health. Recycling materials helps reduce the consumption of raw materials. For more information about recycling this product, please contact your local council, your household waste disposal service, or the shop where you purchased the product.

16 Product monitoring

We are obligated to monitor our products even after delivery. Please let us know anything that might be of interest to us:

- Changed setting data.
- Experiences with the edge sander that are important for other users. Recurring
- malfunctions.

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