

# Fox

Art.-Nr. 24000



- 1) Rokamat Fox (22FX0400)
- 2) 2014/30/EU, 2006/42/EG, 2012/19/EU, 2011/65/EU, 2001/95/EG, EG No. 1907/2006
- 3) EN 62841-1:2015/AC:2015, EN 62841-2-4:2014/AC:2015, EN ISO 12100:2010-11
- 4) Kammerer GmbH, An der B 10, 75196 Remchingen

Remchingen, 20.01.2021

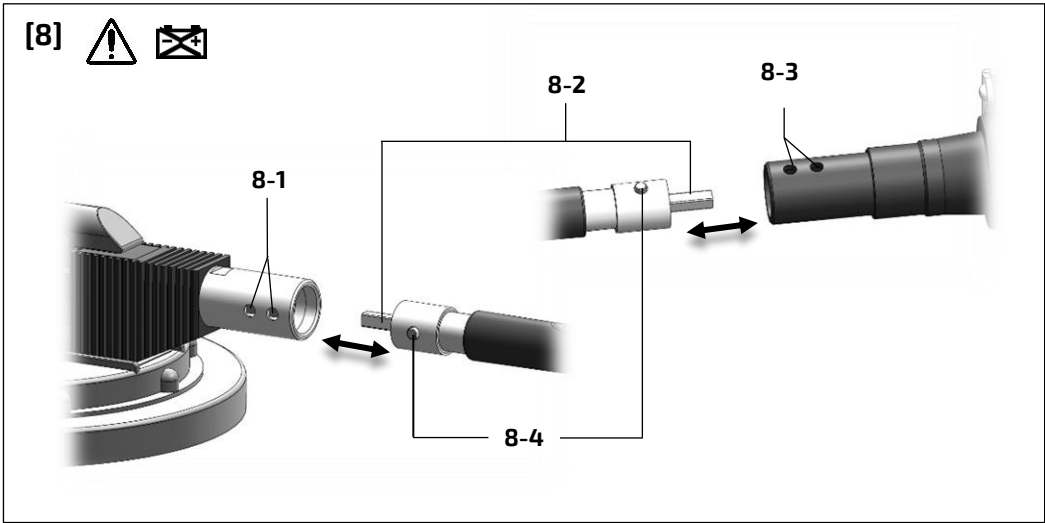
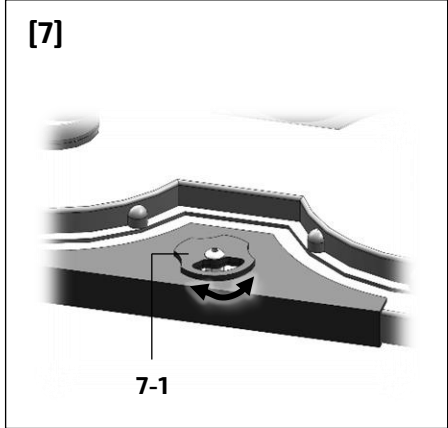
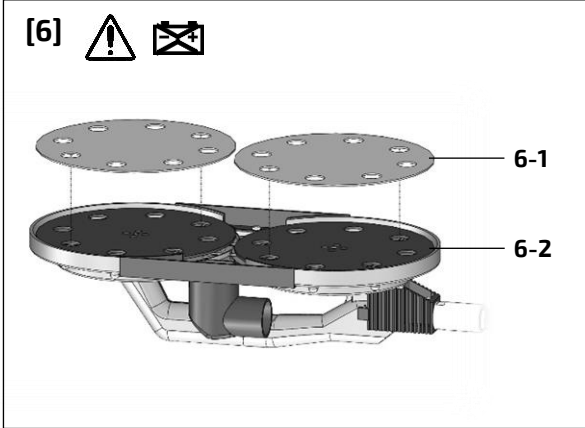
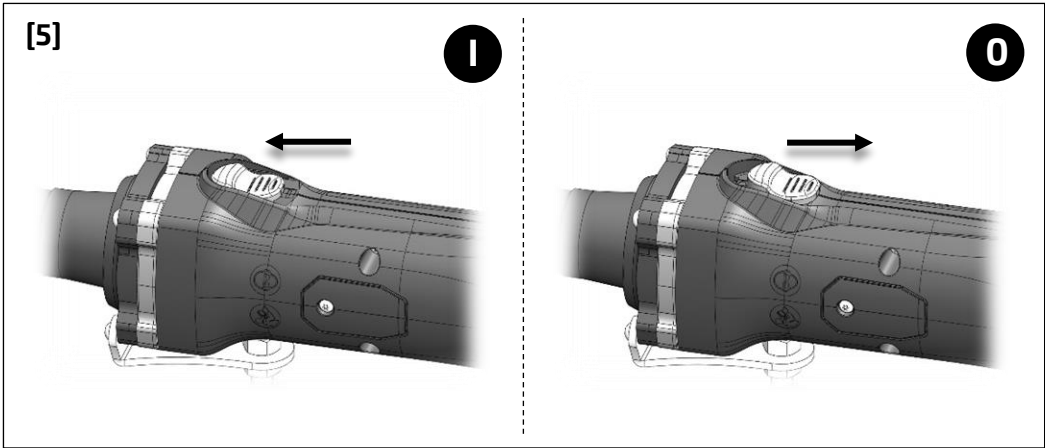
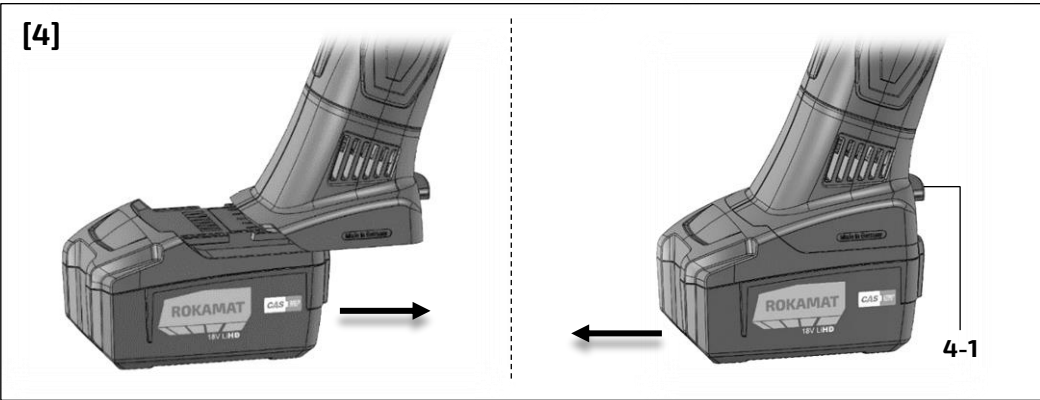
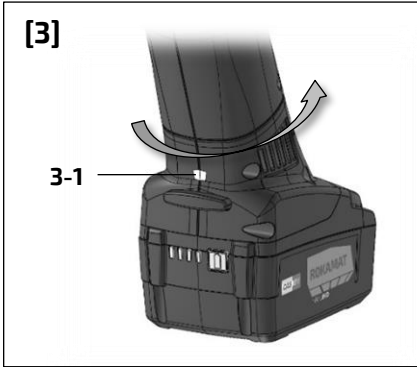
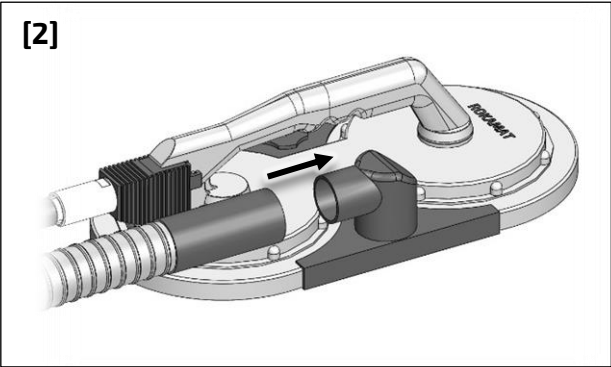
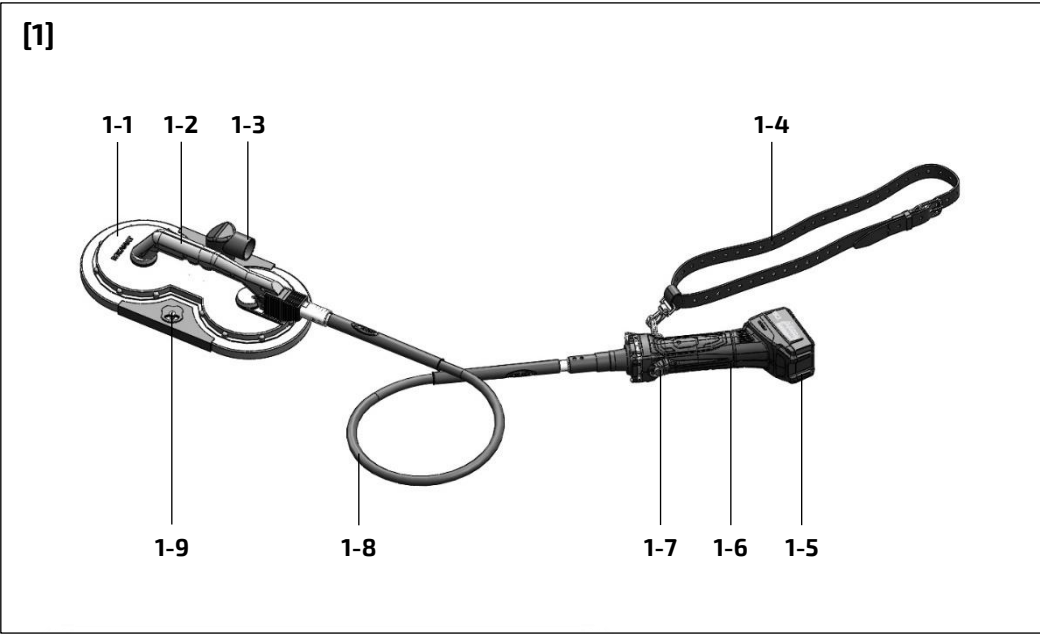
A handwritten signature in black ink, appearing to read 'Beate Kammerer'.

Beate Kammerer  
Head of Technical Documentation

## ROKAMAT

Kammerer GmbH  
An der B 10  
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## 1. Symbols



For your own protection and for the protection of your power tool, pay attention to all parts of the text that are marked with this symbol!



Risk of electric shock!



Read operating instructions and safety notices! \*)



Wear protective goggles! \*)



Wear ear protection!



Wear a dust mask!



CAS Li-Ion battery pack \*)



Removing battery pack!



Two-hand operation. \*)



Two-hand operation! \*)



Important advice/information



Direct Current (DC) \*)



Confirms the conformity of the power tool with the directives of the European Community. \*)



Confirms the conformity of the power tool with UK legislation. \*)

\*) These symbols are (also) on the device.

## 2. Safety Instructions

### For your safety



#### WARNING!

**Read all safety warnings and instructions.** Failure to follow all safety warnings and instructions may result in electric shock, fire and/or serious injury.



Do not use this power tool before you have thoroughly read and completely understood this Instruction Manual, the enclosed "General Safety Instructions", instructions for battery packs and chargers.

**Keep all safety instructions and information for future reference.** Pass on your power tool only together with these documents.

Please also observe the relevant national industrial safety regulations.

### Special Safety Instructions

**Safety Warnings common for Grinding, Sanding and Polishing Operations:**

- a) **This power tool is designed to be used as a sander (with sandpaper) and polisher. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- b) **This power tool is not suitable for coarse sanding, sanding with a wire brush, polishing and abrasive cutting.** Operations for which the power tool was not designed may create a hazard and cause personal injury.
- c) **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
- d) **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.

- e) **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- f) **Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbor hole of the accessory must fit the locating diameter of the flange.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- g) **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.
- h) **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. Where appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- i) **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- j) **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

- k) **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- l) **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- m) **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- n) **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- o) **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

### Kickback and related warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- a) **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- b) **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.

- c] **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- d] **Use special care when working corners, sharp edges, etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
- e] **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control over the power tool.

### Safety warnings specific for grinding and sanding operations



**Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper.** Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.

### Additional safety instructions

Particles generated when working with this machine may contain substances that can cause cancer, allergic reactions, respiratory diseases, birth defects or other propagation defects. Some of these substances include: Lead (in paint containing lead), mineral dust (from bricks, concrete etc.), additives used for wood treatment (chromate, wood preservatives), some wood types (such as oak or beech dust), metals, asbestos.

The risk depends on for how long the user or nearby persons are exposed to the substance.

This dust must not be allowed to enter your body. Do the following to reduce exposure to these substances:

- Ensure good ventilation of the workplace.
-  To protect your health, wear a suitable protective mask.
-  Always wear protective goggles to protect against sanding hazards.
- Connect the electric power tool to a suitable extraction system.
- Sweeping or blowing stirs up dust.
- Vacuum or wash the protective clothing. Do not blow, beat or brush.

Collect the generated particles at the source, avoid deposits in the surrounding area.

Observe the relevant guidelines for your material, staff, application and place of application (e.g.

occupational health and safety regulations, disposal).

If potentially explosive or self-igniting dust is produced during sanding, the machining instructions issued by the material manufacturer must always be followed.

**Attention: Risk of fire!** Avoid overheating the grinding material and the sander. Always empty the dust container before taking a break. Swarf in the filter bag or filter of the extraction system may self-ignite in unfavorable conditions such as flying sparks when grinding metals. Particular danger exists if the swarf is mixed with paint, polyurethane residue or other chemical materials and the grinding material is hot after long periods of work.

Damaged, eccentric or vibrating tools must not be used.

Always use an antistatic suction hose with the power tool. A slight electric shock may cause you to panic briefly and become distracted, which may result in an accident.

When the safety clutch responds, switch off the machine immediately!

Do not overload the motor for a long period. Engine noise should be regular (not wave-like). Unsteady engine performance can be perceived acoustically.

Take a break when the machine is heated up strongly and let it cool down again. To that let the motor idle at top speed for some time.

### Don't bend the flexible drive shaft!

Don't put the running motor on the ground! Dirt may get sucked in and cause damage.

Always use original ROKAMAT abrasives. Foreign abrasives are not suitable for the speed of the sander and may break.

### Emission levels

**NOTE!** Values for the A-weighted sound pressure level and for the total vibration values can be found in the "Technical specifications" table at page 4.

The vibration emission level given in this information sheet has been measured in accordance with a standardized test and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.

**CAUTION!** The indicated measurements refer to new power tools. Daily use causes the noise and vibration values to change.

The declared vibration emission level represents the main applications of the tool. However, if the

tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period. However, if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly decrease the exposure level over the total working period.



**CAUTION! The noise produced during work may damage your hearing.**

Wear ear protection!

### Environmental conditions

#### Operation

Temperature range: +5° C to +50° C

Humidity: ≤ 85 %, non-condensing

Climate: dry

#### Transport and storage

Temperature range: -5° C to +55° C

Humidity: 0 % to 70 %

Climate: dry, roofed, dew protected

Keep the carry case out of reach of children. Children may suffocate or be strangled when playing with the carry case.

## 3. Intended Use

The hand-held battery grinder ROKAMAT **Fox** is suitable for:

- Sanding polystyrene sheets
- Sanding mineral wool boards
- Sanding other complete thermal insulation systems
- Sanding panel joints

During grinding work, the unit may only be operated in combination with a suitable dust extraction system. The **Fox** is intended for use with original ROKAMAT machines and accessories only. These machines must be used correctly in accordance with the instructions. Only sufficiently qualified and trained personnel is allowed to work with the grinder.

The intended use includes the observance of the operating instructions, in particular the safety instructions and the observance of generally recognized accident prevention regulations.

## 4. Technical Specifications

### Grinder and polisher Fox Item no. 24000

Rated voltage	18 V DC
No-load speed	400 min <sup>-1</sup>
Maximum tool diameter	200 mm
Driver disc	Clamping screw M6
Tool holder weight	2,1 kg
Total weight	4,5 kg
Dimension compact (LxHxW)	790x160x410 mm

### A-weighted sound pressure level (see cap. 2 "Emission levels"):

Sound pressure level L <sub>pA</sub>	80 dB(A)
Sound power level L <sub>WA</sub>	91 dB(A)
Uncertainty K <sub>pA</sub> , K <sub>WA</sub>	3,0 dB

### Total vibration value (see cap. 2 "Emission levels"):

Emmission value a <sub>h</sub>	17,5 m/s <sup>2</sup>
Uncertainty K	1,5 m/s <sup>2</sup>

## 5. Geräteelemente

The specified illustrations can be found in fig. [1] on page 2 of the operating instructions.

- 1-1 Disc holding
- 1-2 Handle (Gripping surface)
- 1-3 Intake socket
- 1-4 Belt
- 1-5 Battery
- 1-6 Motor (with gripping surface)
- 1-7 Slide switch
- 1-8 Flexible drive shaft
- 1-9 Suction flow regulator

## 6. Commissioning



### CAUTION!

**Before switching on the power tool:** Unpack power tool and accessories and check that no parts are missing or damaged.

### Connecting the dust extraction system [2]

Push the suction hose onto the intake socket [1-3]. Check for correct fit! If necessary, use a suitable adapter. See also chapter 7.

### Motor mounting

The motor [1-6] is not allowed to be placed on the floor during operation, but must be hooked in the carabiner of the provided belt [1-4] (resp. shoulder belt).

### Switching the electric power tool on and off [5]

**Switching on:** Push the sliding switch [1-7] forward. For continuous activation, now tilt downwards until it engages.

**Switching off:** Press the rear end of the slide switch [1-7] and release it.

## 7. Instructions for Use

### WARNING!

#### Risk of injury, electric shock!

Always remove the battery pack before performing any type of work on the machine!

Only use CAS-compatible batteries with a rated voltage of 18 V DC!

### Installing or removing battery pack [4]

**To insert:** Slide the battery pack [1-5] in until it engages.

**To remove:** Press the battery pack release button [4-1] and pull the battery pack downwards and out.

### Rotating battery pack [3]

The rear section of the machine can be rotated 270° in three stages, thus allowing the machine's shape to be adapted to the working conditions. Only operate the machine when it is in an engaged position.

### Attaching and changing the abrasives with velcro [6]

- Remove the (worn) abrasives [6-1] from the supporting plates [6-2].
- Place the abrasives in the center of the supporting plates and press on.
- Conduct a test run to check that the abrasives are attached in the center.

### ADVICE!

**The holes in the interface pad must be aligned with the holes in the supporting plate [6-2].** Otherwise, the suction power is impaired and there is more exposure to dust.

### Suction flow regulation [7]

Turn the cover [7-1] to regulate the suction flow. Completely open = min. suction flow  
Completely closed = max. suction flow

### Dust extraction

### WARNING!

#### Health hazard posed by dust!

Where required, always work with an extraction system and wear a protective mask. Observe national regulations.

The dust extraction system offered on our website is adapted to the quantity of dust generated and permanently ensure the necessary suction power.

## 8. Working with the Power Tool

1. Attach sanding tool.
2. Connect dust extraction system.
3. Attach motor to (shoulder) belt.
4. Insert the battery pack.
5. Switch on dust extraction system.
6. Hold the grinder with both hands at the gripping surfaces.
7. Switch on the device.
8. Press the grinder gently against the work surface (the pressure should be just enough to ensure that the sanding head is flush with the work surface).
9. Swing the grinder in overlapping movements to smooth the surface to the required fineness.

### After finishing work

Once you have finished the grinding work, set the power tool down.

### CAUTION!

Do not set the power tool down with the grinding head facing downwards – always lay it on the floor so that it is on its side!

## 9. Maintenance and Care

### WARNING!

#### Risk of injury, electric shock!

Always be sure that the tool is switched off and the battery pack is removed before performing maintenance work on the machine!

- Repairs may be carried out by an authorized customer service center only.
- Repairs to electrical tools must be carried out by qualified electricians only!

During the warranty period do not loosen the screws on the housing. Non-compliance will deem the guarantee obligations of the manufacturer null and void.

### Remove dust from the motor regularly

It is possible that particles deposit inside the power tool during operation. This impairs the cooling of the power tool. Conductive build-up can impair the protective insulation of the power tool and cause electrical hazards.

The power tool should be cleaned regularly, often and thoroughly through all front and rear air vents using a vacuum cleaner or by blowing in dry air. Prior to this operation, remove the battery pack and wear protective glasses and dust mask.

### Replacement of the flexible drive shaft [8]

**Disassembling:** On the motor side, press in the press button [8-4] in the borehole [8-3] with a tool (e.g. screwdriver) and pull out the protective hose [1-8]. Now the shaft core [8-2] can be replaced.

To replace the protective hose [1-8], it must also be loosened on the side of the tool holder. To do this, turn the protective hose [1-8] until the pushbutton [8-4] becomes visible in the borehole [8-1]. Press it down in with a tool (e.g. screwdriver) and pull out the protective hose [1-8].

**Mounting:** In reverse order. Make sure that the shaft core [8-2] is threaded into the square in each case.

### CAUTION!

The two boreholes for the push button at the drive shaft serve as length adjustment between shaft core and protective hose. The shaft core should be freely movable in length and must not get compressed!

### ADVICE!

Check all wearing parts once a month.

## 10. Spare Parts and Accessories

Other accessories, in particular insertion tools, can be found in the manufacturer's catalogues. Exploded drawings and spare-part lists can be found on our homepage: [www.rokamat.com](http://www.rokamat.com).

**Use only original ROKAMAT spare parts and work tools!**

## 11. Environmental Protection

The generated grinding dust may contain harmful substances. Dispose appropriately.

**Observe national regulations on environmentally compatible disposal and on the recycling of disused machines, packaging and accessories.**



**For Great Britain and EU countries:** Do not dispose of electric equipment or battery pack together with household waste material! In observance of the European Directives, on Waste Electric and Electronic Equipment and Batteries and Accumulators and Waste Batteries and Accumulators and their implementation in accordance with national laws, electric equipment and batteries and battery pack(s) that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

### ADVICE!

Please ask your dealer about disposal options!

## 12. Declaration of Conformity

It is expressly declared that the cordless grinder and polisher listed on the first page under 1) from the serial number indicated onwards complies with all relevant provisions of the directives or regulations listed in 2) and that the harmonized standards listed in 3) have been applied. The technical documentation is available from the authorized documentation agent named in 4).

### 13. Troubleshooting

Problem	Possible causes	Remedy
Motor runs, but the supporting plate does not rotate.	Shaft core broken.	Exchange shaft core.
	Mitre-gear of the tool holder is defective.	Replace the mitre-gear with case top.
The electronic signal display <b>[3-1]</b> lights up and the load speed decreases.	There is too much load on the machine.	Run the machine in idling until the electronics signal indicator switches off.
The machine does not start. The electronic signal display <b>[3-1]</b> flashes.	The restart protection is active. The machine will not start if the battery pack is inserted while the machine is on.	Switch the machine off and on again.
Motor power fluctuates.	Carbon brushes worn.	Replace carbon brushes.
Fox not working.	Battery discharged.	Charge battery.
Fox does not run smoothly over the surface.	Intake pressure too high.	Reduce the suction pressure: Turn up the suction flow regulator of the dust extraction unit.
	Tool discs are not mounted correctly.	Check the correct fit of the tool discs.
Excessive material removed from workpiece.	Grit on abrasives too coarse.	Select a finer grit.
Surface quality not perfect.	Incorrect or worn tool discs.	Select correct tool discs and check for good condition.
Extraction power is insufficient.	Filter element on the dust extraction system is blocked/clogged.	Clean the filter element regularly.
	Disposal bag inserted incorrectly.	Installing the disposal bag correctly.
	The suction power on the dust extraction system is too low.	Adjust the suction power to a higher setting.
	Suction hose blocked or kinked.	Remove blockage and straighten hose.
	Disposal bag full.	Dispose of the bag.

If problems other than those listed occur, please contact your ROKAMAT service workshop or your local specialist.