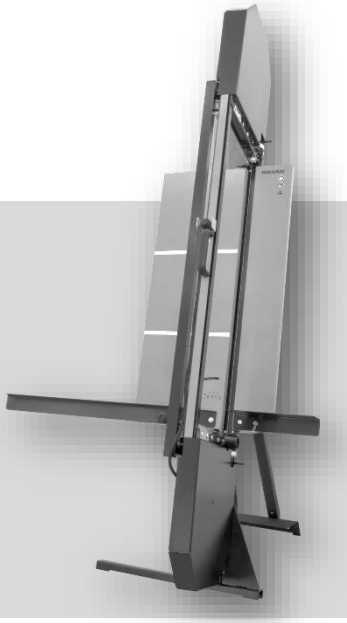
ROKAMAT
easy working

Tigris 850

Art.-Nr. 53000



CE

1) Rokamat Tigris 850 (22TI85001)
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 ISO 12100:2010
4) Kammerer GmbH, An der B 10, 75196 Remchingen

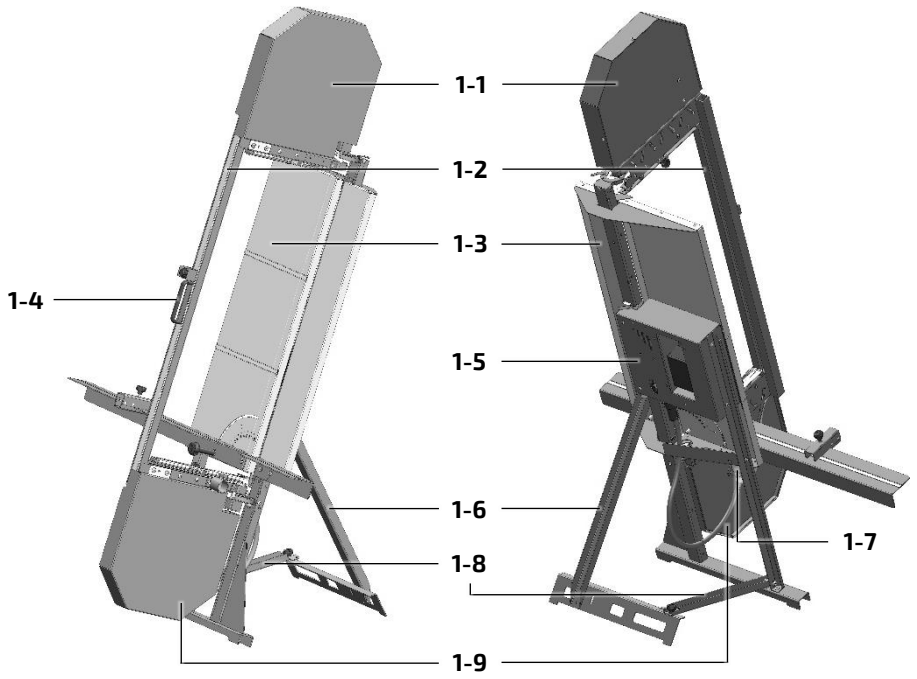
Remchingen, 01.03.2023

Beate Kammerer
Head of Technical Documentation

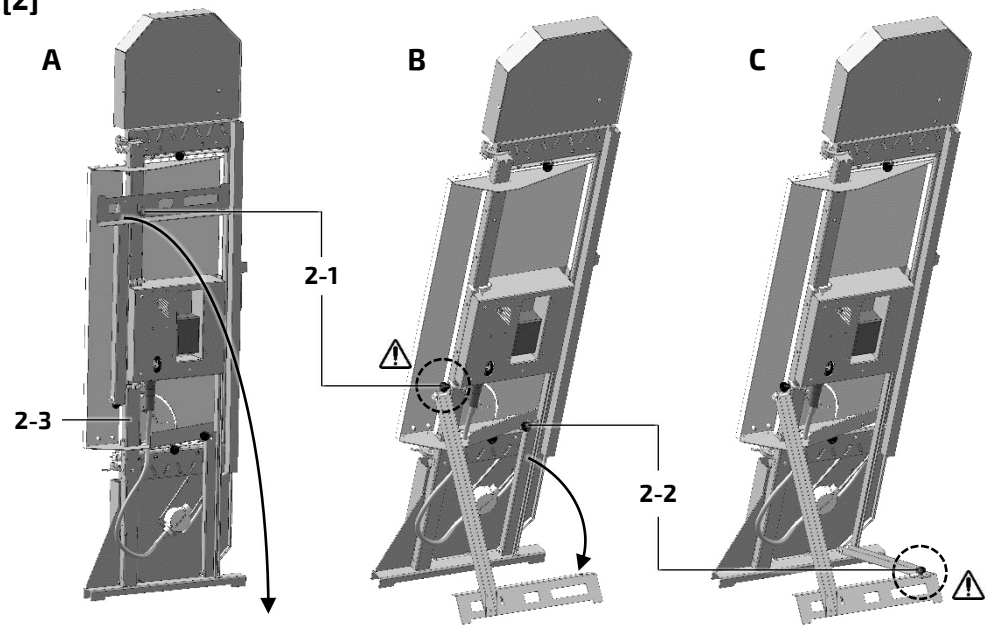
ROKAMAT
Kammerer GmbH
An der B 10
75196 Remchingen
Deutschland

www.rokamat.com

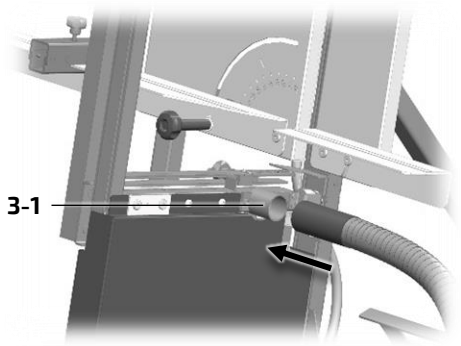
[1]



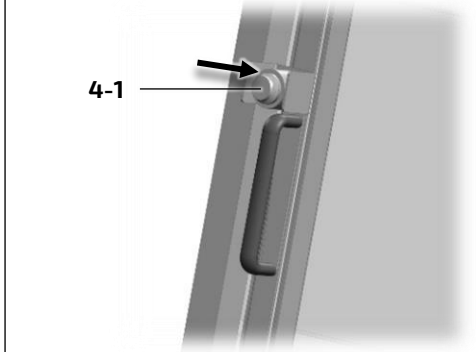
[2]



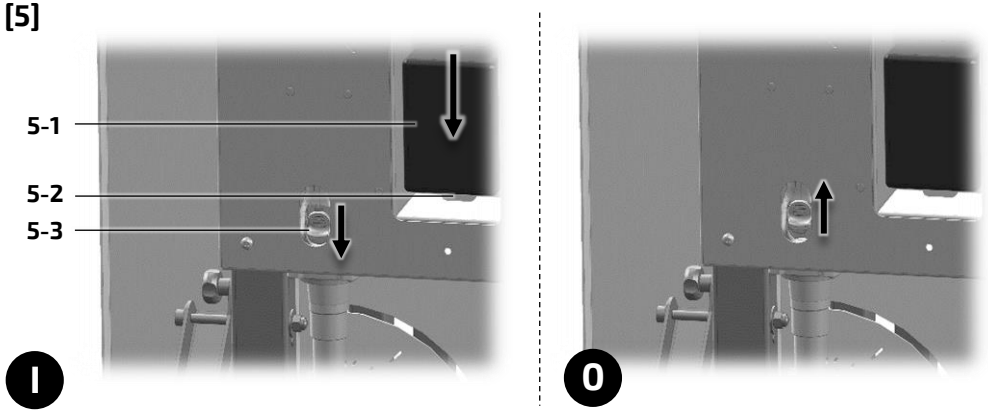
[3]



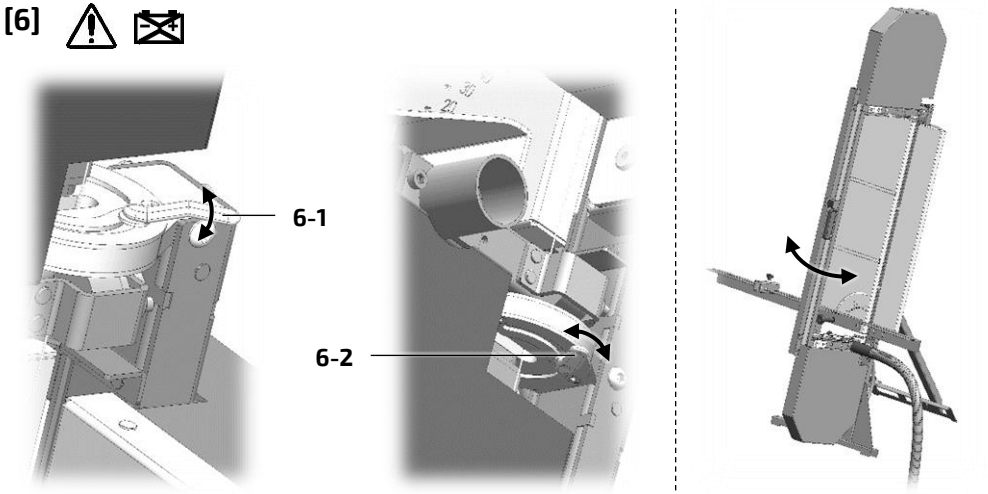
[4]



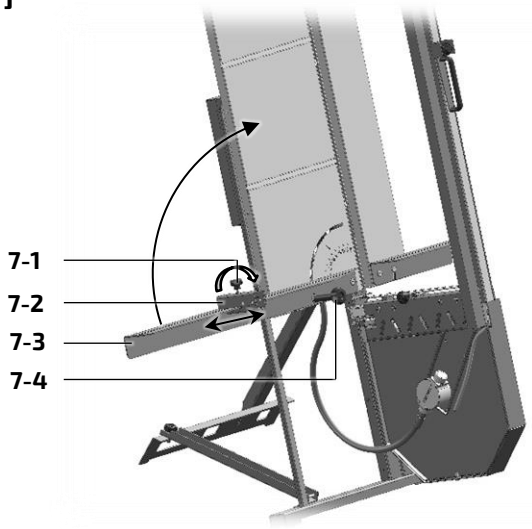
[5]



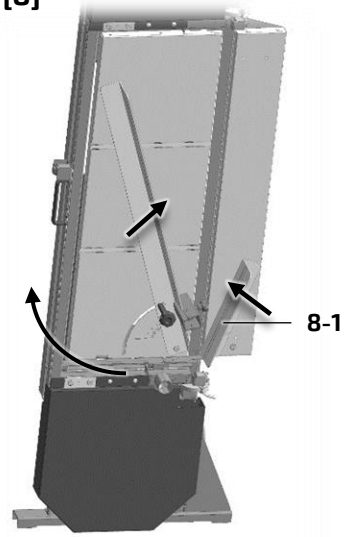
[6]



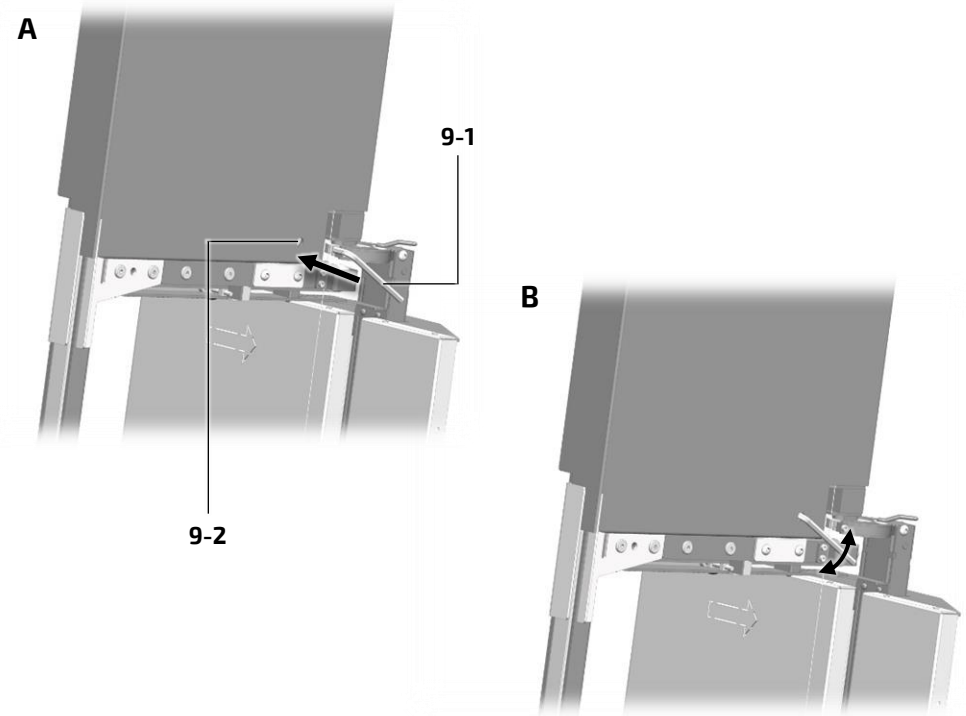
[7]



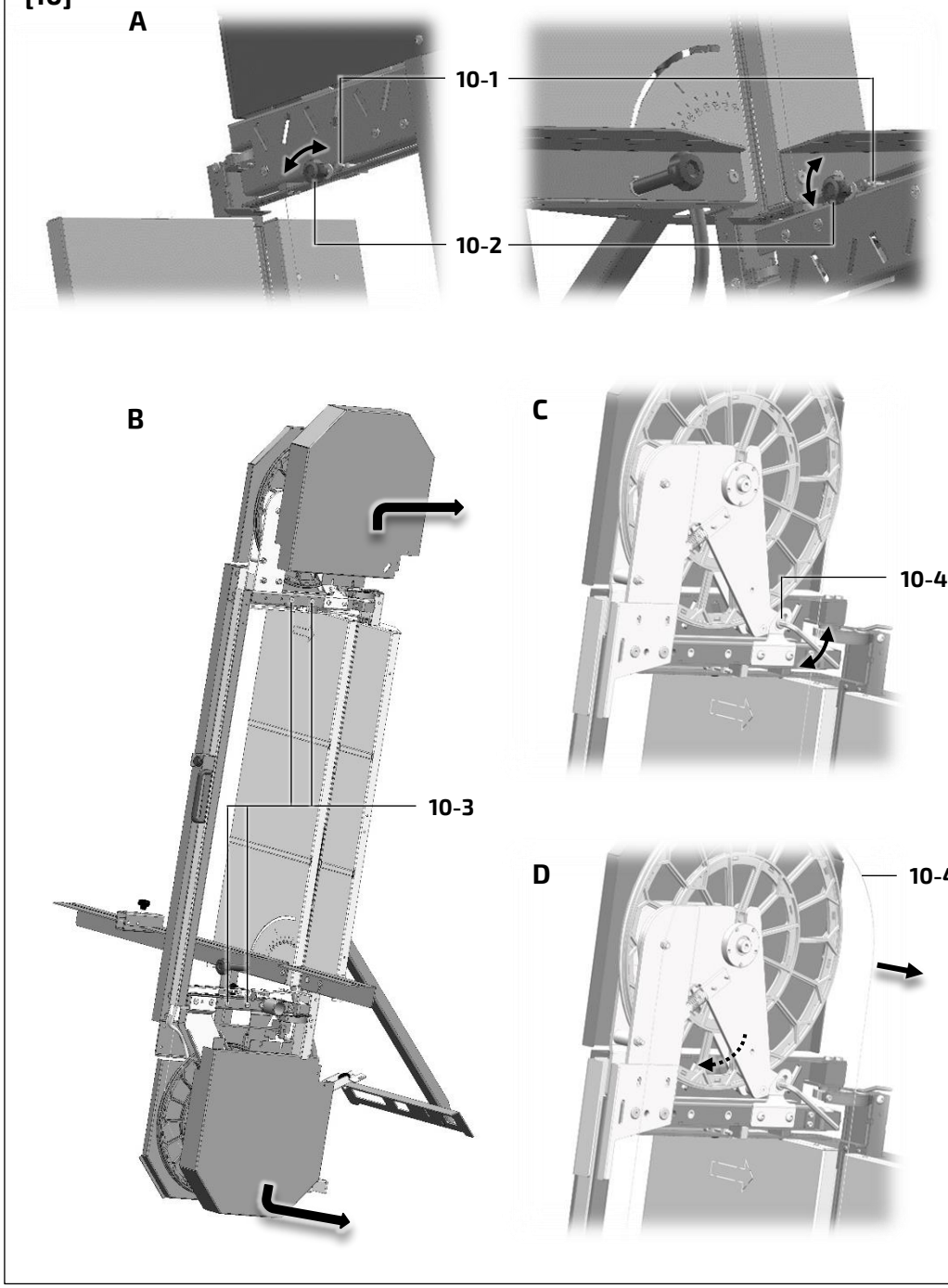
[8]



[9]



[10]



Contents

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!

Warning of hand injuries! *)

Read operating instructions and safety notices! *)

Wear protective goggles!

Wear ear protection!

Wear hand protection!

Wear a dust mask! *)

CAS Li-Ion battery pack

Removing battery pack!

Do not dispose of as domestic waste! *)

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.

Safety instructions for wire saws

Do not reach into the area of the saw wire when the tool is switched on.

Only make the saw cuts using the handle provided for this purpose and at the same time secure the workpiece (insulation material) by hand.

Only use suitable materials.

If the impeller tensioner is already at the end stop, the impellers must be switched.

If the cutting speed decreases, the saw wire should be replaced.

A damaged or worn saw wire must not be used.

If the saw wire jams in the workpiece (insulation material), switch off the motor immediately. Before switching on again, the saw wire must be able to rotate freely again.

Before operating the wire saw, check that it is stable and that all machine parts are assembled correctly, especially all protective devices. Also check that the saw wire and impellers are in good condition and that the saw wire is sufficiently tensioned.

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: mineral dust (from mineral wool, aerated concrete or similar), styrene, etc.

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.

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.

switch off the machine immediately when the safety clutch responds and if the saw wire breaks!

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!

Only use original Rokamat saw wire. Foreign materials are not suitable for the saw wire speed and applications of the wire saw and could tear.

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 5.*

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

3. Intended Use

The portable **Rokamat Tigris 850** cordless wire saw is intended exclusively for cutting insulation materials and plasterboard at angles of 30°-90°. Insulation materials up to a max. thickness (cutting depth) of 320 mm, a max. width (cutting length) of 1200 mm and a max. density of 650 kg/m^3 can be cut using only the Rokamat special saw wire. and may only be operated with an external dust extraction device.

The transportable wire saw must be set up on a level and solid surface and may only be operated with an external dust extraction device.

Only sufficiently qualified and trained personnel may carry out activities with the **Tigris**.

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

The manufacturer is not liable for damage caused by non-intended use of the tool.

4. Technical Specifications

Cordless wire saw *Tigris 850* Art.-Nr. 53000	
Rated voltage	18 V DC
Maximum saw wire speed	37000 mm/s
Total weight	26,5 kg
Space requirement	ca. 1,2 m^2
Cutting length	max. 850 mm
Board thickness	max. 340 mm
Dimension compact (LxHxW)	560x1850x200 mm
Dimension set up (LxHxW)	1128x1880x1015 mm
A-weighted sound pressure level (see cap. 2 "Emission levels"):	
Sound pressure level L_{pA}	87 dB(A)
Sound power level L_{WA}	92 dB(A)
Uncertainty K_{pA}, K_{WA}	3,0 dB
Total vibration value (see cap. 2 "Emission levels "):	
Emmission value a_h	< 2,5 m/s^2
Uncertainty K	1,5 m/s^2

5. Device Components

The specified illustrations can be found in Fig. **[1]** on page 2 of the operating manual.

1-1 Top cover
1-2 Cutting bow
1-3 Support plate
1-4 Handle
1-5 Motor housing
1-6 Stand
1-7 Mitre gear
1-8 Stabilizing arm
1-9 Bottom cover

6. Commissioning

CAUTION!

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

Setting up the wire saw [2]

CAUTION!

Risk of injury! Danger of tipping!
The portable wire saw must be set up on a *level and firm* surface.

With stand

A Loosen the star grip screw **[2-1]** on the top of the back of the wire saw. Fold down the stand **[1-6]**.
B Fix the stand **[1-6]** underneath the motor housing **[1-5]** using the star knob screw **[2-1]**. Loosen the star screw **[2-2]** of the stabilizing arm **[1-8]** and then fold it down.
C Fix the stabilizing arm **[1-8]** on the stand using the star screw **[2-2]**.

Assembly on the frame

Alternatively, the Tigris can also be mounted on a frame. To do this, place the unit upright on the scaffold (leave the stand and anti-tip guard in the starting position - as in Fig. **[2 A]**). Then lash the main beam **[2-3]** to the rear of the frame using the two lashing straps supplied. Check that it is securely held!

Connecting the dust extraction system [3]

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

Switching the electric power tool on and off [5]

Switching on: Insert the charged battery pack **[5-1]**. Set the toggle switch on the housing **[5-3]** to **I**.

Switching off: Set the toggle switch on the housing **[5-3]** to **0**.

7. Instructions for Use

WARNING!

Risk of injury, electric shock!
Always remove the battery pack before performing any type of work on the machine!

Installing or removing battery pack [5]

To insert: Push the battery pack **[5-1]** on the back of the wire saw onto the battery fixing until it engages.

To remove: Press the battery lock **[5-2]** down and pull out the battery pack **[5-1]** upwards.

Starting the wire saw [4]

Switching the electric power tool on (see "Switching the electric power tool on and off" in chapter 6). To start the wire saw (cutting), keep button **[4-1]** on handle **[1-4]** pressed - the saw wire starts moving.

Release the button **[4-1]** again to stop the saw wire.

Foot switch (optional)

Instead of the button **[4-1]** on the handle, the wire saw can also be started with the foot switch (optionally available).

First, the foot switch must be connected to the socket of the motor housing **[1-5]**. Then press the foot switch to start the wire saw.

If the foot switch is no longer actuated, the saw wire comes to a standstill again.

Adjusting the cutting angle

Mitre cuts [6]: Loosen the quick release top **[6-1]** and bottom **[6-2]**, adjust the cutting bow **[1-2]** to the desired angle (see mitre indicator), fix the quick release **[6-1** and **6-2]** again.

Bevel cuts [7]: To move the support angle **[7-3]**, loosen the star grip screw **[7-4]**, set the desired angle (see scale on the support plate **[1-3]**) and tighten the star grip screw **[7-4]** again.

Width stop [7]

For quick cutting repetition, the desired dimension can be set on the support angle using the end stop **[7-2]**.

To do this, loosen the star screw **[7-1]**, move the end stop **[7-2]** to the desired position and tighten the star screw **[7-1]** again.

Width stop [10-A]

Move out the cutting bow **[1-2]**. Loosen the star grip screw **[10-2]** at the top and bottom and slide the depth limit to the desired dimension (see scale on the cutting bow). Then retighten the star grip screws **[10-2]**. Now move the cutting bow **[1-2]** to the end stop and loosen the fixing bolts **[10-1]** at the top and bottom by turning them, push them to the right and engage them by turning them again.

Sawing insulating material

CAUTION!

Possible damage to the wire saw!
Always push the insulation material through *from left to right*!

Place the insulation material on the support plate **[1-3]** and make all necessary adjustments. Activate the wire saw (see "Starting the wire saw"). The cutting bow **[1-2]** can be moved using the handle **[1-4]**. It is possible to cut both by pushing and pulling the cutting bow **[1-2]**. In addition, if the cutting bow **[1-2]** is fixed (see "Depth limit"), the insulation material can also be pushed from left to right in order to cut it horizontally.

Tensioning the saw wire [9]

As soon as the tension on the saw wire is decreased, perform the following steps:

A Insert the enclosed Allen wrench **[9-1]** into the opening **[9-2]** of the top cover **[1-1]** and turn the clamping screw inside *counterclockwise*. This allows the spring to tension the saw wire again.
B Then tighten the clamping screw *clockwise* again.

Changing the saw wire [10]

WARNING!

Risk of injury! Warning of hand injuries!
Wear gloves when changing the saw wire to avoid cutting yourself!

A Lock the cutting bow **[1-2]** using the star grips **[10-2]** between a height of 60-100 mm and extend the fixing bolt **[10-1]** (see "Width stop").
B Loosen the screws **[10-3]** of the top and bottom covers **[1-1** and **1-9]** (without removing them) and remove the covers upwards or respectively downwards.
C Use the enclosed Allen wrench to loosen the clamping screw **[10-4]**. Move the clamping device to the left to relax the saw wire on the impellers and then retighten the clamping screw.
D Put (worn) saw wire **[10-5]** over the impellers to remove it.

Install the **new** saw wire in reverse order. Ensure that the saw wire is correctly inserted in all guides.

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.

Transport [7 + 8]

WARNING!

Risk of injury!
Transport and storage of the power tool only in the carry bag. Keep these out of the reach of children. Children may suffocate or be strangled when playing with the carry case.

To prepare the wire saw for transport, fold up the right support bracket **[8-1]**, set the left support bracket **[7-3]** to 90° and the cutting bow **[1-2]** to 0° (fold in). Fold up the stabilizing arm **[1-8]** and then the stand **[1-6]** and fix them in place.

Fuse replacement

WARNING!

Danger of voltage flashover!
Risk of injury, electric shock!
It is essential to remove the battery before replacing the fuse in order to avoid an unintentional voltage flashover!

Remove the defective blade fuse from the holder in the motor housing **[1-5]** and replace it with a new one (with 35 A).

After work

CAUTION!

Possible damage to the battery pack!
Always switch the device off after use (see "Switching the electric power tool on and off" in chapter 6) to avoid deep discharge of the battery.

8. 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.

Regularly check the impellers to avoid danger and have them replaced by an authorized service workshop if they are damaged.

The power tool, especially the controls and inner lining of the impellers, should be cleaned regularly, often and thoroughly through all air vents using a vacuum cleaner or by blowing in dry air. Prior to this operation, separate the power tool from the power source and wear protective glasses and dust mask.

ADVICE!

Check all wearing parts once a month.

9. 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.

Use only original Rokamat spare parts and work tools.

10. Environmental Protection

The generated sawing 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 wire saw listed on the first page under 1) from the indicated serial no. complies with all relevant provisions 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).

12. Troubleshooting

Problem	Possible causes	Remedy
Motor runs, but the saw wire does not turn.	Shaft core broken.	Exchange shaft core.
	Mitre gear is defective.	Replace mitre gear.
Motor power fluctuates.	Carbon brushes worn.	Replace carbon brushes.
Tigris not working.	Battery discharged.	Charge battery.
	Machine overloaded. Fuse blown.	Replace fuse.
Saw wire vibrates or has too little tension.	Not enough tension.	Tension the saw wire again.
Cutting speed decreases.	Saw wire worn out.	Remove blockage.
Extraction power is insufficient.	Suction nozzle blocked.	Clean the filter element regularly.

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