

# GEBRAUCHSANWEISUNG (EN)

# **OSCILLATING PLASTER SAW: STANDARD AND ECO**

## **STANDARD**



#### **ECO**





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# PLEASE READ BEFORE USING THE SAW AND KEEP THE INSTRUCTIONS IN A SAFE PLACE

#### **PRODUCT**

These instructions for use are valid for the RUDOLF Medical plaster saws "STANDARD" and "ECO." You are receiving a high-quality product whose proper handling and use are described below.

RUDOLF Medical plaster saws are delivered non-sterile. Before first use, disinfect the saw with a disinfectant wipe. After each use, the plaster saw and the accessories must be cleaned and disinfected with a disinfectant wipe.

## Detailed instructions for reprocessing the saw blades can be found in the IFU D0462:



#### **DELIVERABLES**

## Oscillating plaster saw STANDARD:

RU 6220-20	Oscillating plaster saw STANDARD
RU 6220-83	Round saw blade Ø 50mm for synthetic
RU 6220-85	Round saw blade Ø 65mm for synthetic
RZ6220-02	Open-end wrenches 2 pieces
D0660	Instructions for Use (IFU)

#### Oscillating plaster saw ECO:

RU 6220-24	Oscillating plaster saw ECO
RU 6220-84	Round saw blade Ø 50mm for plaster
RU 6220-85	Round saw blade Ø 65mm for synthetic
RZ6220-02	Open-end wrenches 2 pieces
D0660	Instructions for Use (IFU)

#### **INTENDED USE**

The plaster saw is intended for cutting hard cast material.

# **WARNINGS AND PRECAUTIONS**

- Never rivet or screw signs or symbols onto the device because this can damage the protective insulation. We recommend using adhesive signs.
- Use only undamaged plugs and cables. Check cables and plugs regularly.
- The voltage specified on the device and the power supply voltage must be the same.
- Use only RUDOLF Medical original accessories.
- Wear personal protective equipment such as safety glasses, ear protection, and gloves.
- The device must not be operated in potentially explosive atmospheres.
- Worn and blunt saw blades can cause increased motor stress and should therefore be checked regularly and replaced in due time.

## PRIOR TO EACH USE: VISUAL AND FUNCTIONAL INSPECTION

Check for:

- External damage (e.g., damaged cable, deformed plugs, dents, burrs)
- Correct functioning

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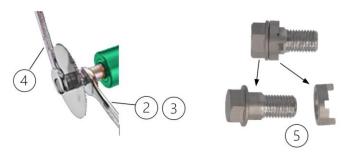
### **MOUNTING / REPLACING THE SAW BLADE**



- There is a risk of injury by unintentionally powering the device. Pull out the plug before replacing the saw blade.
- If need be, use thick gloves to avoid injury from the saw blade.

# Unscrewing the retaining screw and removing the old saw blade

- (1) Place the plaster saw on a stable surface, e.g., a table.
- (2) Place one open-end wrench at the drive shaft behind the saw blade, and the other open-end wrench in front at the retaining screw.
- (3) Hold the rear wrench and use it to hold firmly the saw.
- (4) Using the wrench in the front, unscrew the retaining screw.
- (5) Remove the retaining screw and the fixation ring. It is recommended to place the small parts in a bowl or on a cloth to avoid losing them.
- (6) Remove the old saw blade.



#### Installing a new saw blade

- 1. Before installing the new saw blade, unplug the saw.
- 2. Check the inner thread and the saw blade base of the drive shaft for cleanliness.
- 3. Put in a new saw blade. It is not important which side of the saw blade faces inwards or outwards. The notches in the saw blade must lie exactly on both pins of the drive shaft.
- 4. Put in the fixation ring. The notches in the fixation ring must always face the saw blade. They also must lie exactly on the pins.
- 5. Screw in the retaining screw manually and tighten it a little bit.
- 6. Then, tighten the retaining screw using both open-end wrenches, as described above. Make sure not to overtighten the screw. The tightening torque is 6 7Nm.







#### **OPERATION**

#### Switching on / off

- Switching on: Push the switch forward (I).
- Switching off: Push the switch to the back (O).



## Setting the oscillating frequency

Set the oscillating frequency when the motor is running.

Based on the properties of the plaster cast, the optimum oscillating frequency is set with the torque controller.

- Lowest oscillating frequency (1)
- Highest oscillating frequency (8)



# **Cutting plaster casts**

- 1. First, select the appropriate saw blade.
- 2. Place the plaster saw on the cast to be cut and press the saw lightly into the cast.
- 3. Your guiding hand can be used as a support and for depth control, and it can prevent sudden penetration of the blade into the cast when the cast has been cut through.
- 4. As long as the saw blade is cutting through the plaster, you will feel some resistance. Once the plaster cast has been cut through, this resistance disappears. When you feel that the plaster has been cut through, lift the saw lightly without removing it from the cutting groove and move it forwards approximately 15mm (about 0.6inches) in the cutting direction.
- 5. Then proceed in the same way as described above until the next piece has been cut through.
- 6. Thus, the cast is safely cut by a series of cuts and linear movements along the cutting line than this would have been possible by a continuous, linear cut.
- 7. Only after a few applications, you will get a routine for guiding the saw through the plaster and a feeling for the moment when the resistance is no longer noticeable, and you do not have to put pressure on the saw blade.
- 8. If the saw blade oscillates for too long on the padding, the high-speed oscillation can cause a burning sensation on the skin under the padding.

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- 9. If the retaining screw loosens during the use of the saw, tighten the retaining screw as follows:
  - 1. Unplug the saw.
  - 2. Place the plaster saw on a stable surface, e.g., a table.
  - Place one open-end wrench at the drive shaft behind the saw blade, and the other openend wrench in front at the retaining screw.
  - 4. Then, tighten the retaining screw using both open-end wrenches. Make sure not to overtighten the screw. The tightening torque is 6 7Nm.

#### Additional notes:

- Due to different materials, each plaster and synthetic cast can have different properties. While
  using the saw, try to set the optimum torque for the respective material.
- A lower speed is more suitable with synthetic casts. It prevents that the synthetic material starts to melt due to heat generated during the cutting process.
- Whenever possible, do not cut unpadded plasters with the saw. This can lead to injuries if the skin sticks to the plaster and does not oscillate with the saw blade. If there is no padding between the cast and the skin, place a soft tissue stripe such as jersey or felt under the plaster. Then, draw a line with a permanent marker on the plaster along the stripe. The cast will then be cut along this line.
- When applying a plaster cast after surgery, mark the position of the surgery wound on the plaster cast. This will allow you to cut a window into the plaster so that stiches can be removed, and the wound can be checked.
- Cutting a window also facilitates the extraction of bone pins, necessary punctures, or incisions.
- Do not cut metal plates in the plaster.
- When the motor is overloaded, the saw automatically turns off. After a few minutes of cooling down, the saw can be used again.
- To have a balanced wear and tear of the saw blade unscrew the retaining screw and rotate the saw blade by 90°.

### **CLEANING**

- Clean the plaster saw after use.
- Unplug the saw before you clean it.
- Remove heavy soiling immediately after use with a soft and clean cloth. Do no use metal brushes or abrasive cleaners.
- For a thorough cleaning, remove the saw blade from the saw. Clean the plaster saw and its components with a soft, clean, and lint-free cloth.
- Finally, wipe off the motor casing, cable, power plug and all accessories such as saw blade and open-end wrench with a disinfectant wipe. We recommend using disinfectants with a pH value between 9 and 10.
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# Once a week or more often depending on the frequency of use:

- Unplug the saw before you clean it.
- Clean the ventilation slots to ensure enough ventilation for cooling the motor.
- Blew dry pressure air from the outside in the inner of the device housing.



# MAINTENANCE, CONTROL, AND INSPECTION

- After cleaning and disinfection with a disinfectant wipe, the plaster saw must be inspected visually and for functionality. The plaster saw must be clean of visible residues. Particular attention should be paid to ventilation slots and switches.
- Before use the plaster saw must be inspected for proper functioning and damage and replaced if need.
- Defective products must be cleaned and disinfected with a disinfectant wipe before being returned for repair or complaint.

#### **STORAGE**

- Store the plaster saw in a dry and clean environment at 5 - 40°C.

### **DISPOSAL**

- Recycle packaging, phased-out devices, and accessories in an environmentally safe manner.
   Contact your distributor for more information.
- Only after proper cleaning and disinfection products should be disposed of properly.
- Disposal or recycling of the product or its components must comply with national regulations.
- Be careful with sharp tips (saw blades). Use suitable containers to prevent third parties from being injured.

### **REPAIRS & RETURNS**

- Never carry out repairs yourself. Service and repairs should only be carried out by appropriately instructed and qualified persons. If you have any questions, contact RUDOLF Medical or your medical technology department.
- Defective products must be cleaned and disinfected with a disinfectant wipe before being returned for repair or complaint.

# **PROBLEMS / EVENTS**

- The user should report any problems with RUDOLF Medical products to the respective distributor.
- In the event of serious incidents with the products, the user must report this to RUDOLF Medical as the manufacturer and the competent authority of the member state in which the user resides.

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### **WARRANTY**

- The plaster saws are made of high-quality materials and are subjected to a strict quality control before delivery. If there are any discrepancies, please contact RUDOLF Medical.
- RUDOLF Medical provides warranty for the plaster saws according to legal and countryspecific regulations (proof of purchase through invoice or delivery note). The warranty period is two years.
- In case of material or production defects, we provide a free-of-charge repair of the device. Any attempt to carry out unauthorized repair will forfeit the warranty.
- Damage caused by improper handling, overloading or normal wear and tear is excluded from the warranty. Please contact our customer service department.
- In case of warranty claim and repair, please enclose a copy of the invoice or the delivery note with the device.
- In the event of modification of the device by unauthorized personnel, this declaration loses its validity, and the warranty is nullified.

# **TECHNICAL DATA**

Power supply voltage	220 - 240 Volt, 50/60 Hz.
Power consumption	250 Watt
Type of current	1~
Oscillations	About 12.000 – 21.000 min <sup>-1</sup>
Weight	STANDARD: 1.4 kg, ECO: 1.2 kg
Appliances classes	II 🗆
IP code	IP2X
Noise level (A weighted)	Typically, 75 dB (A). The noise level when using the saw can exceed 85 dB (A). Use ear protection at noise levels higher than 85 dB (A).
Hand-arm vibration	Typically, lower than 2.5 m/s <sup>2</sup> . Values measured according to EN 50144.

# **ACCESSORIES**

RU 6220-82	Round saw blade, Ø 50mm, for plaster
RU 6220-84	Round saw blade, Ø 65mm, for plaster
RU 6220-83	Round saw blade, Ø 50mm, for synthetic
RU 6220-85	Round saw blade, Ø 65mm, for synthetic
RU 6220-31	Case with insert

### **SPARE PARTS**

RZ6220-02	Open-end wrench	
RZ6220-03	Retaining screw	
RZ6220-04	Fixation ring	

### **SYMBOLS**

$\prod_{\mathbf{i}}$	Consult instructions for use.
LOT	Batch code
REF	Article no.
QTY	No. per package
NON	Non-sterile
$\triangle$	Caution
•••	Manufacturer
	Date of manufacture
(€	CE marking according to the Medical Device Regulation (EU) 2017/745 (MDR)
X	WEEE
MD	Medical Device

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