

# Swing-bucket rotor S-24-11-AT – Instructions for use

This document supplements the operation manual Centrifuge 5430/5430 R and does not replace it. Therefore, please also read the operating manual before starting up the rotors for the first time. You can find the current version on the Internet at [www.eppendorf.com/worldwide](http://www.eppendorf.com/worldwide).

## 1 Product description

Rotor S-24-11-AT is an aerosol-tight swing-bucket rotor for Centrifuge 5430/5430 R. The rotor features a quick-lock rotor lid (QuickLock®).

Rotor S-24-11-AT has a maximum capacity of 24 tubes with a volume of 2.0 mL each.

## 2 Safety



**NOTICE! If handled incorrectly, the swing-bucket rotor can fall over.**

Buckets from swing-bucket rotors may not be used as handles.

- ▶ Before moving the rotor, remove the buckets.
- ▶ Always grip the rotor on the rotor cross using both hands.

## 3 Centrifuging

### 3.1 Loading swing-bucket rotors

#### Requirement

- Use a rotor, bucket and adapter combination which is approved by Eppendorf.
- The buckets are sorted according to weight category. Buckets positioned opposite each other must have the same weight category. The weight category is imprinted on the side of the groove: e.g., 68 (the last two numbers are in grams). For repeat orders, please specify the weight class.
- Matched and checked tubes

To load the rotor, proceed as follows:

1. Check to see if the bucket grooves are clean, and lightly grease them with pivot grease (int. order no.: 5810 350.050/North America: 022634330). Contaminated grooves and pegs prevent the bucket from swinging evenly.
2. Hang the buckets into the rotor. All rotor positions must be equipped with buckets.
3. Check to see if all buckets are fully mounted and can swing outward freely.
4. Check the maximum load for each bore (adapter, vessel and contents). The information on the maximum load can be found on the rotor and in the "Technical data" chapter.
5. Load the buckets symmetrically.

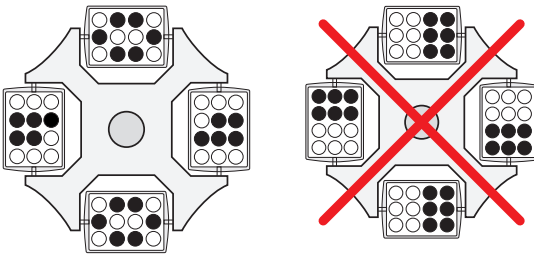


Fig. 1: Incomplete but symmetric loading of the buckets (left). The pegs of each bucket must be loaded uniformly.

The supply shown on the right side is incorrect because it does not allow the bucket to properly swing out.

### 3.2 Closing the rotor lid

1. Check to see if the outer sealing ring is correctly positioned in the groove.
2. Fit the rotor lid vertically onto the rotor.
3. To lock the rotor, turn the red rotor lid screw clockwise, beyond an audible *click* and until the stop is reached.

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**i** The rotor is only properly closed after an audible click is heard!

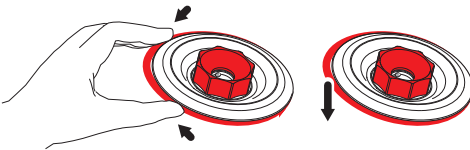
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**i** ▶ If the closing system is difficult to operate, apply a thin layer of pivot grease to the pins in the rotor lid screw.

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### 3.3 Replace the rotor lid seal

#### Removing the seal



#### Inserting the seal



**NOTICE! Faulty sealing when the gasket is handled incorrectly.**

- ▶ Uniformly insert the seal.
- ▶ Do not pull the seal lengthwise.

1. Check the seal to make sure it is intact.  
Do not use any damaged, discolored or dirty seals.

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2. Insert the seal in one location along the groove and use your fingers to spread it along the outer edge of the lid until the seal is fully seated in the groove.
3. Place the lid on the rotor and close the lid.
4. Remove the lid and check that the seal is seated correctly.

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**i** If the seal is too long or too short, remove the seal from the groove and reinsert it.

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### 4 Retrofitting older centrifuges

#### 4.1 Centrifuge 5430

Without a retrofit, the rotors can be operated in the Centrifuge 5430 from software version 4.4 onward. Older devices can be retrofitted as of serial number 10,000.

#### 4.2 Centrifuge 5430 R

The rotors can be operated in the Centrifuge 5430 R without a retrofit, as of software version 1.5 and with a serial number < 12,999, and as of software version 2.2 with a serial number > 13,000. Older devices with any serial number can be retrofitted.

You can view the software version on your device's display shortly after switching on the device. The retrofit must be carried out by a trained service technician. If necessary, please contact your dealer.

### 5 Technical data

Max. g-force (rcf)/rotational speed (rpm):	16,049 x g/12,700 rpm
Max. load per bore/bucket: (adapter, tube and contents)	3,75 g/15 g
Max. centrifugation radius:	8.9 cm

Additional technical data and order numbers can be found in the operating manual.



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