

## Instructions for use

Rotor A-2-MTP

English (EN)

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](http://www.eppendorf.com).

## 1 Product description

The rotor A-2-MTP is a swing-bucket rotor for the Centrifuge 5430/5430 R. The rotor can be used with the following plates with a height of up to 29 mm:

- Micro test plates
- Cell culture plates
- PCR plates
- Deepwell plates
- Slides (with CombiSlide adapter)

## 2 Safety

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### **NOTICE! If handled incorrectly, the rotor can fall over.**

The rotor can fall over if the buckets are used as a handle.

- ▶ Remove the buckets before inserting and/or removing a swing-bucket rotor.
- ▶ Always use both hands to carry the rotor cross.



### **CAUTION! Risk of injury when turning the rotor manually.**

- ▶ When turning a swing-bucket rotor, pay special attention to ensure that your fingers do not get jammed or get caught on the swinging buckets.
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## 3 Operation

### 3.1 Inserting the rotor

1. Remove the bucket.
2. Hold the rotor with both hands on the rotor cross.
3. Place the rotor vertically on the motor shaft of the centrifuge.
4. Insert the rotor key in the rotor nut.
5. Turn rotor key clockwise until the rotor nut is firmly tightened.

### 3.2 Loading the swing-bucket rotor

- ▶ Use the rotor, bucket and adapter combinations approved by Eppendorf.
- ▶ Check the grooves in the buckets for cleanliness. Lightly lubricate the grooves with pivot grease.
- ▶ Check that all buckets have been fully attached and can swing out freely.

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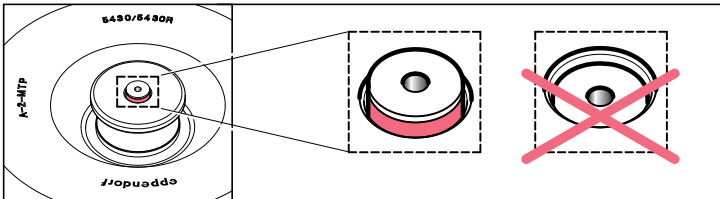
#### 3.2.1 Loading the plate buckets

- ▶ Observe the maximum load and the maximum height when using stacked plates.

#### 3.3 Position and remove the upper shell of the wind shield

The upper shell of the wind shield is used for noise reduction.

1. Before it is used for the first time, remove the attachment that is mounted on the knob of the upper shell of the wind shield.
2. Position the upper shell of the wind shield and rotate a max. 1/4 revolution until it is lowered onto the rotor hub.  
The lock indicator must protrude so far over the knob that the red marking is clearly visible:



The loose positioning of the upper shell is intentional and aids in self-centering.

3. Pull on the knob of the upper shell of the wind shield in order to lift it.



**Only 5430 R:** To ensure accurate and fast temperature control of the samples, carry out the centrifugation without upper shell of the wind shield. Note that the centrifugation noise will increase slightly in this case.

#### 3.4 Removing the rotor

1. Pull on the knob of the upper shell of the wind shield in order to lift it.
2. Remove the bucket.
3. Turn the rotor nut counterclockwise using the rotor key.
4. Hold the rotor with both hands on the rotor cross.
5. Remove the rotor vertically in an upward motion.

#### 4 Technical data

Max. <i>g</i> -force (rcf)	2204 × <i>g</i>
Max. speed (rpm):	4680 rpm
Max. loading height	29 mm
Max. load per bucket	170 g

#### 5 Ordering information

Order no. (International)	Description
5825 711.009 5825 713.001	<b>Adapter</b> used in A-4-81-MTP/Flex, A-4-62-MTP, A-2-MTP, A-2-DWP-AT and A-2-DWP for 96-well PCR plates, set of 2 for 384-well PCR plates, set of 2
5825 718.003	<b>SBS adapter</b> for plates with rims in the SBS format Set of 2
5427 722.009	<b>Spare MTP buckets for A-2-MTP</b> Set of 2
5427 725.008	<b>Wind shield upper shell for A-2-MTP</b> aluminum
5427 700.005	<b>Rotor A-2-MTP</b> with 2 buckets and windshield upper shell