

## Instructions for use

Loading Buckets

English (EN)

This document is a supplement to the operating manual of the centrifuge and not a replacement for 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 User instructions

These instructions for use apply for loading the buckets of the swing-bucket rotors as listed in table 1.

You must not exceed the maximum admissible load and the loading height of the swing-bucket rotor.

Tab. 1: Maximum admissible load and loading height of the rotors

Rotor	Centrifuge	Maximum admissible loading height	Maximum admissible load
A-2-DWP	Centrifuge 5804/ 5804R/5810/5810 R	89 mm	380 g
A-4-62-MTP	Centrifuge 5804/ 5804R/5810/5810 R	53 mm	
A-4-81-MTP/Flex	Centrifuge 5810/ 5810 R	60 mm	
A-2-MTP	Centrifuge 5430/ 5430 R	29 mm	170 g

## 2 Safety



### CAUTION! Risk of injury due to asymmetric loading of a rotor.

- ▶ Load rotors symmetrically with identical tubes or plates and buckets.
- ▶ Only load adapters with suitable tubes or plates.
- ▶ Always use tubes or plates of the same type (weight, material/density and volume).
- ▶ Check that loading is symmetrical by balancing the adapters and tubes or plates used with scales.

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**3 Loading the swing-bucket rotor**

3.1 Inserting the buckets

Prerequisites

- The swing-bucket rotor has been inserted into the centrifuge.
- The combination of rotor and bucket has been approved by Eppendorf.
- Matching and tested tubes and plates.

1. Insert the buckets into the rotor.

All rotor positions must be equipped with buckets.

2. Check to see if all buckets are completely inserted and can freely swing out.

- i** ▶ Only use commercially available microplates, culture plates and deepwell plates.
- i** ▶ When using a vessel type or plate type for the first time, carry out a brief centrifugation test at low speed (e.g. 1000 rpm).

3.2 Loading the buckets symmetrically

▶ In order to avoid imbalances, always load the plates symmetrically.

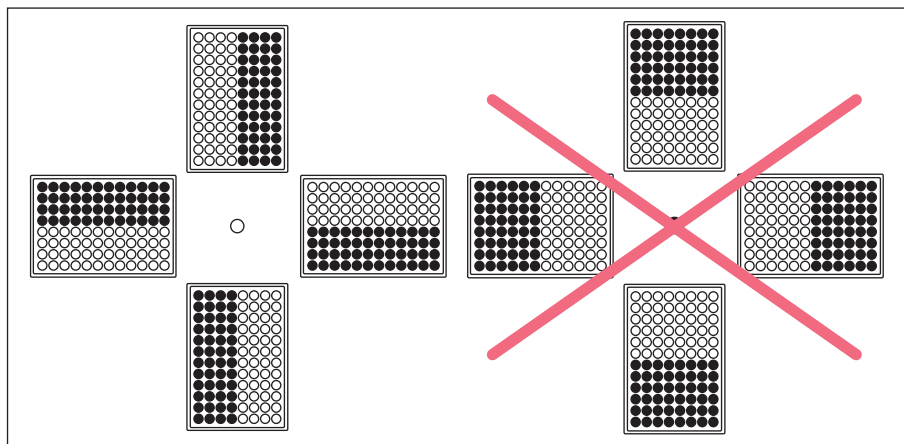
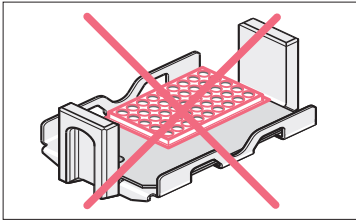


Fig. 1: Symmetrical loading of plates

The plate loading shown on the right-hand side is incorrect as the buckets will not swing properly if loaded in this way.

### 3.3 Incorrect loading



Only use plate sizes that are appropriate for the plate bucket.

Fig. 2: The inserted plate is too small

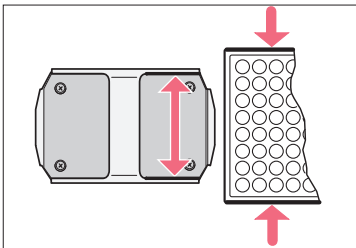
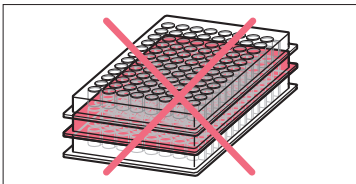
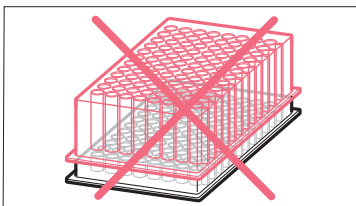


Fig. 3: The inserted plate is too wide



Only use plates by one and the same manufacturer for one plate bucket.

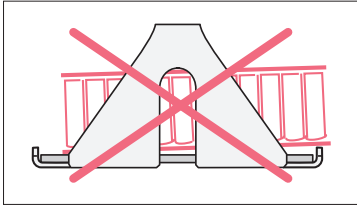
Fig. 4: Use of plates by different manufacturers



Only use plates of the same type (DWP or MTP) in one plate bucket.

Fig. 5: Use of different plate types in one bucket

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Always insert the plates completely into the buckets.

Fig. 6: Plate has not been inserted completely

**4 Ordering information**

Order no. (International)	Order no. (North America)	Description
5804 740.009	022638564	<b>Rotor A-2-DWP</b> Deepwell plates rotor, incl. 2 buckets
5804 743.008	022638556	<b>Plate bucket</b> used in A-2-DWP Set of 2
5810 711.002	022638041	<b>Rotor A-4-62-MTP</b> incl. 4 MTP buckets
5810 702.003	022638068	<b>MTP bucket for A-4-62</b> for 4 MTP or 1 DWP Set of 4
5810 725.003	022638807	<b>Rotor A-4-81-MTP/Flex</b> Swing-bucket rotor, incl. 4 MTP/Flex buckets
5810 741.009	022638840	<b>MTP/Flex buckets for Rotor A-4-81 or A-4-81-MTP/Flex</b> for use with IsoRack and cell culture flask adapters as well as MTP and DWP Set of 4
5427 700.005	022634403	<b>Rotor A-2-MTP</b> with 2 buckets and windshield upper shell
5427 722.009	022634420	<b>MTP buckets for A-2-MTP</b> Set of 2