

●For the Ultracentrifuge rotor

This rotor is warranted for five (5) year from the date of delivery provided that it has been operated and maintained properly.

If the centrifuge is damaged by defects in the rotor covered by this warranty, we shall service parts free of charge. However, we charge for replacing the drive unit based on the latest price at the ratio of the accumulated numbers of rotations used to the warranted of rotations and centrifuge's life management system calculates.

1)Rotor with optical adapter/disk

Warranty is effective for the material and workmanship of the rotor by the end of the times of use or integrated operating hours specified below, whichever comes earlier, under the condition that the maximum speed limit or permissible limit is not exceeded. For the swing rotor, aluminum angle rotor, zonal rotor and continuous flow rotor, warranty continues still by the end of the times of use or integrated operating hours specified below under the condition that the rotor is used at a speed 10% lower than before.

Rotors		Operating times	Integrated operating hour
Aluminum angle rotor Swing rotor	Zonal rotor Continuous flow rotor	1,000	2,500
Titanium angle rotor Titanium vertical rotor Neo angle rotor	CFRP angle rotor CFRP vertical rotor	5,000	10,000

2) RLM rotor

Like for rotor with optical adapter, warranty is effective by the end of the times of use or integrated operating hours which the centrifuge's life management system calculates.

3) For both rotor with optical adapter/disk and RLM rotor, warranty is effective for five years after delivery.

4) If the material and workmanship of the rotor has been found defective, we will offer you a substitute at the price calculated from the proportion of actual operating times to warranted operating times or actual integrated operating hours to warranted integrated operating hours as follows.

$$(\text{Substitute price}) = (\text{Price of new rotor}) \times \left[\frac{\text{Time of use so far}}{\text{Warranted times of use}} \text{ ,or } \frac{\text{Integrated operating hours so far}}{\text{Warranted Integrated operating hours}} \right] \text{ ,whichever greater}$$

This warranty shall apply only to failures of the rotor or the centrifuge caused by use of the defective rotor.

In the case the optional accessories of the rotor etc. are purchased additionally, they shall comply with the warranty of the rotor.

This warranty shall not apply to any damage such as sample damage caused by use of the defective rotor.

[Preconditions]

We do not warrant this centrifuge and the rotor under the following conditions even before the warranty period expires:

- (1) Failures caused by rough and/or improper handling
- (2) Failures caused by operation or maintenance in any manner not described in the rotor instruction manual and the centrifuge instruction manual.
- (3) Failures caused by modification or disassembly without Hitachi Koki permission.
- (4) Failures caused by use of buckets, tube adapters, tubes and bottles that are not designated for the rotor by Hitachi Koki.
- (5) Failures caused by fire, earthquakes, or other natural disaster.
- (6) Consumable parts and parts having a limited warranty period.
- (7) Failures caused by use of the rotor with a non-Hitachi centrifuge without Hitachi Koki's permission.
- (8) Failures caused by use of the rotor with any centrifuge that is modified without Hitachi Koki's permission.
- (9) Failures without presentation of the damaged items such as rotors, tubes, bottles and adapters.
- (10) Failures to manage the life of rotors with optical adapters/disks (using a rotor log book).

●Miscellaneous

Be sure to sterilize and wash the rotor before it is returned for inspection or repair. We have rights to refuse to inspect or repair the rotor if it is used in an RI facility or a laboratory of the P2 level or more without any protection or the rotor or its related equipment is contaminated due to insufficient safety control.