

Clean Pro PRZ Bearings



"Clean Pro PRZ bearing," which has largely improved durability and reduced particle and gas emission from the bearing, has been developed for manufacturing devices and conveyer equipments of semiconductor, LCD panel and hard disk.

It contributes to improvement of the yield and quality for products, reduction of the maintenance cost for the devices and improvement of the operating rate.

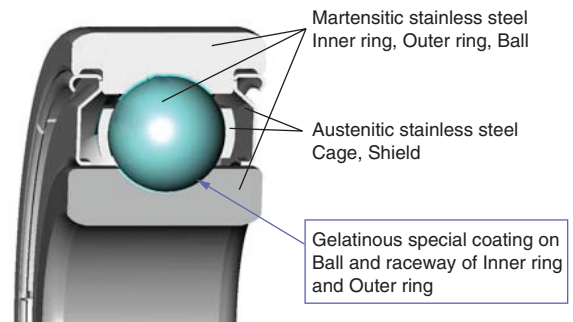
Purpose of Development

In manufacturing process of semiconductor, particles in the devices and gases from the device components can lead to the deterioration of the yield and quality for products, so that bearings with less generation of particles and gases are required for the devices.

Further study on enhanced performance for conventional clean bearings will be continued to cope with clean environment becoming severer and severer in the future.

Feature

Gelatinous special coating, which has the optimum lubricant component for clean environment, is distributed on the rolling contact surface.



Performance

- 1) Cleanliness class 10 available: 50% less particle emission in comparison with JTEKT conventional bearings for clean environment.
- 2) Stand vacuum and high temperature environment: Extremely little gas emission (10^{-5} Pa, 150°C)
- 3) Long life: More than 10 times longer than JTEKT conventional bearings for clean environment.

Applications

- 1) Semiconductor manufacturing devices: Wafer transfer robot, stepper, wafer inspection SEM etc.
- 2) LCD panel manufacturing devices: LCD panel transfer robot, LCD panel cleaning device (dry condition) etc.
- 3) Hard disk manufacturing devices: Sputtering device, cleaning device (dry condition) etc.

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