

# GR™ Series Bearings

GR™ Series Bearings: Smooth (low torque) and subtle (low noise).

Allows for device operation in a quiet environment that is user friendly.

Low-torque bearings offer high efficiency and energy savings for home electrical appliances and are compliant with environmental needs.



Patent Pending



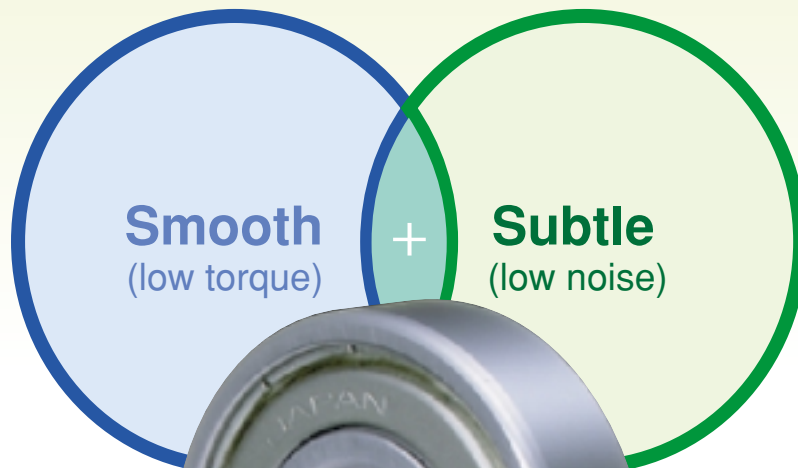
Recently, various energy conservation laws and regulations have had a positive influence on the development of high-powered electrical appliances that are more energy efficient.

Accordingly, NSK has developed the GR Series bearing. We chose green as the theme color for product imaging. The color green represents our commitment to the environment, which is reflected in the high efficiency of motors that utilize the GR Series bearings, including fan motors for air conditioners and vacuum cleaner motors.

## Features

1. A 40% to 50% reduction of dynamic torque over conventional bearings (see Fig. 1).  
In particular, high efficiency of low torque at high-speed has been confirmed (see Fig. 2).

2. Greater quietness has been obtained over conventional bearings by incorporating NSK's lithium soap-based grease, and the highly accurate manufacturing of inner and outer rings and steel balls (see Fig. 3).



Bore size, outer diameter, and width of the bearing are based on ISO standards. Low torque and low noise is achieved by changing internal specifications of the bearing.

**GR  
Series  
Bearing**

### Applications

This product is applicable to various fields where highly efficient motors.

- Fan motors for air conditioners
- Vacuum cleaner motors
- Air filtration system motors
- CPU cooling fan motors

Fig. 1 Comparison of dynamic torque

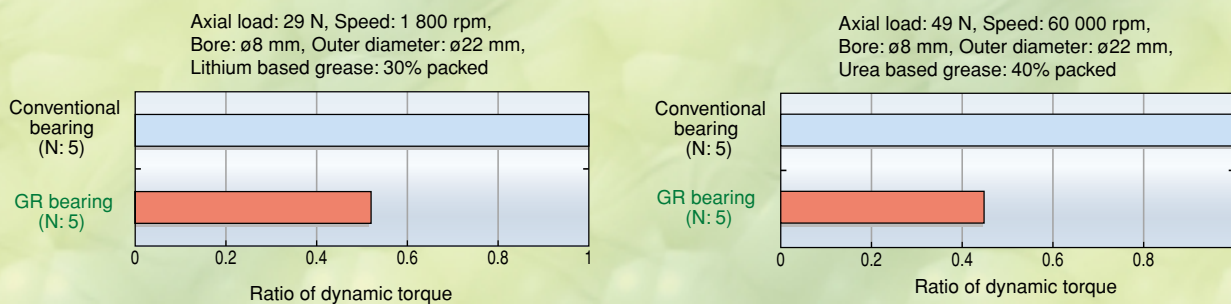


Fig. 2 Comparison of high-speed durability

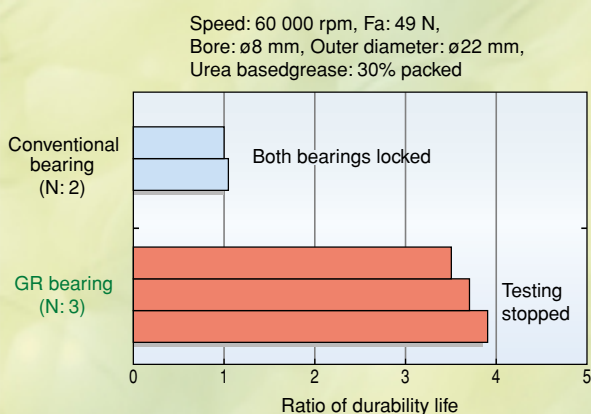
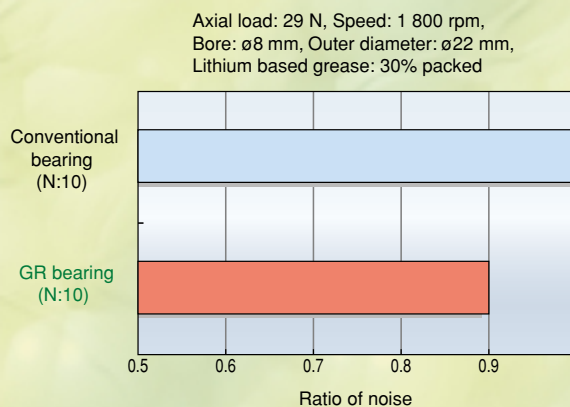


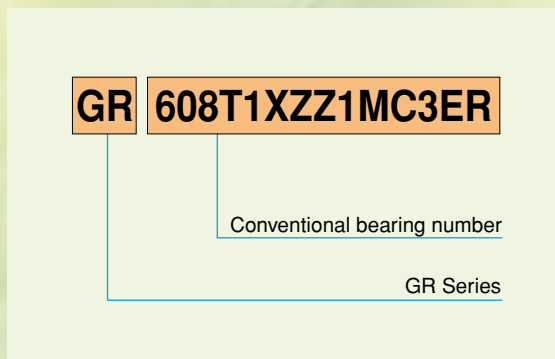
Fig. 3 Comparison of noise



## List of GR Series

Bearing number	Boundary dimensions (mm)		
	Bore	Outer diameter	Width
GR693	3	8	3
GR608	8	22	7
GR6002	15	32	9
GR6200	10	30	9
GR6201	12	32	10
GR6202	15	35	11

## Composition of bearing number



Note: Please contact your nearest NSK branch office for further details or visit us online at: <http://home2.nsk.com>.