



Precision Deep Groove Ball Bearings



- ▶ **Sealing Structures:**ZZ-Shield, 2RS-Seal, Open type
- ▶ **Inner diameter range:**2.5-130(mm)
- ▶ **Precision:**P5/P6
- ▶ **Clearance:**C0、C3、CM
- ▶ **Vibration:**V1/V2/V3/V4, Z1/Z2/Z3/Z4,
Z1V1/Z2V2/Z3V3/Z4V4
- ▶ **WD latest stock:**6000-6012 6200-6212 6300-6312

➤ Brief introduction

WD precision deep groove ball bearings are designed for high precision, low noise, small vibration, high reliability and long life. They are mainly used in various types of electric motors. They are also known as EMQ (Electric Motor Quality) bearings.

EMQ bearings are widely used in household appliances, toys, electric power tools, car motors and other fields. With optimal design, high reliability heat treatment, precision manufacturing processes and high-grade grease, these products perform better on reliability, vibration and noise levels than standard products making them more suitable for electric motor applications. These products can also be applied to most gearbox applications as well.

WD precision deep groove ball bearings include a variety of shields and seals to meet the many different requirements customers demand. For detailed specification, please feel free to contact WD.

➤ Packaging

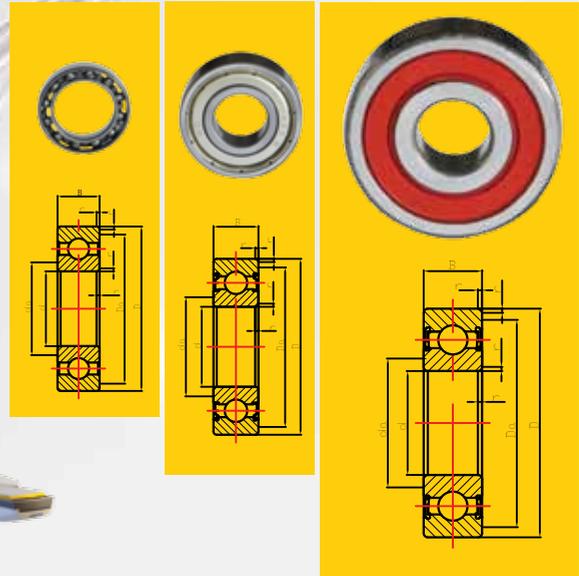
There are two types of packaging for precision deep groove ball bearings: commercial packaging and industrial packaging.

Commercial packaging: a single bearing will be first packed in a plastic bag and then put into a single paper box, finally into a carton.

Industrial packaging: our products are economically and durably packed so that they are suitable for long-distance transportation. For ID's below 30 mm, bearings will be packed in tubes, cartons and then pallets. For ID's above 30 mm, bearings will be packed in rolls, cartons and then pallets.



➔ Successful Cases



WD precision deep groove ball bearings applied in an electric motor application

This customer is one of the largest electric motor and pump manufacturers in the Middle East. They have the largest electric motor R&D center in the area and have close affiliations with a number of prestigious universities. They have more than 50 main products which are used in industrial and household applications such as air conditioners, washing machines, water cooling pumps, various oil/gas heaters to name a few.

WD products and service advantages:

- 1) Correct selection: Customer knew little about bearings and as a result could not select the products properly at the very beginning of the design stage. WD helped the customer select the correct products successfully. WD also provided basic bearing training which helped the customer know more about bearings and accelerated new product designs and risk reduction on future products.
- 2) Cost reduction: Customer was using international renowned brands and paying high prices as well. The low noise EMQ bearings WD provided fully met the customer's operating requirements and replaced the international renowned brands which resulted in cost savings.
- 3) A long-term relationship resulted in a win-win situation: During the nine years of cooperation with the customer, WD has maintained stable quality with no quality complaints from the customer. WD has become the customer's main bearing supplier because of the trust it has earned over the many years.

WD precision deep groove ball bearings applied in automatic control application

Product number:

MR74-ZZ, MR106-ZZ, MR117-ZZ, 684-ZZ

Application conditions:

- 1) These bearings are used on an encoder with medium to low rotating speeds and a clean operating environment. Their needs included small starting torque, low noise and should not leak grease. The customer previously used P5 and Z3 grade products of a well known Japanese firm. Though the encoder is small, the bearing's cost occupied a large portion of the total cost. After analyzing, WD suggested and provided Z2 products without abnormal noise to meet customer's operational requirements, which significantly reduced the cost.
- 2) WD improved the design of the grease seals to satisfy the anti-dust, anti-leak requirements of the application. This helped to strengthen the relationship between WD and the customer and helped to achieve a win-win situation. WD Brand won this customer's trust.

WD product advantages:

The wall thickness of this kind of product is the thinnest in miniature ball bearings. They have a high requirement on the production process. Very few well-known companies can produce this type of bearing while selling at twice WD's price. After the customer started using WD products, the performance fully met their requirements as well as reducing cost. The customer realized very good quality at a competitive price.