MTWB

Customized Bearings

Powered By

# Customized Medium Sized DGBB


**Mighty Way Industrial Limited**

香港威鸿实业 有限公司

Room 13-15, 19/F, Nan Fung Centre
264-298 Castle Peak Road, Tsuen Wan, N.T., Hong Kong

**Mobile:** +86 13681771041

**Email:** sales@mtwbearing.com
13681771041@163.com

# Customization of medium sized bearing

Medium sized deep groove ball bearings are the most common type of ball bearings, they have the following features:

- Radial load and axial load can be taken at the same time
- Low torque hence low power loss
- Higher speed and lower noise possibility than any other types of rolling bearings
- A very limited degree of misalignment to be taken

# Customization of medium sized bearing

Apart from standardized bearing fully compatible international brands, MTWB engineering team has vast experience in designing or customizing and making of deep groove ball bearings. Before a manufacturing drawing is finalized, our engineering team needs to understand deeply OE customer's application and work closely with them to determine a unique bearing solution, such as:

**1. Gaining Higher Bearing Speed**

Thermal stability is the limiting factor to the maximum speed of a bearing, not the mechanical speed limit. Hence a design of thermal stability at higher temperature will allow a higher bearing speed or speed capability. Usually sealing is the determining factor of the thermal stability. MTWB's engineering team is able to design the thermal stability to run up to 450℃, compared to only 120℃ of a standard bearing. We can also make the best-performance bearing down to -200℃, or in accordance with customer's specification of corrosion or wear resistance using stainless steel or alloys.

**2. Choosing the Best Clearance**

The bearing clearance refers to the spacing between a bearing's rolling element and the inner and outer ring. The total spacing is referred as radial clearance or axial clearance depending on the direction of movement. The operating clearance (also called working clearance) has direct effect on bearing fatigue, temperature increase, noise and vibration hence experience counts when selected.

**3. Customization for Longer Bearing Life**

The raceway grooves on both the inner and outer rings have circular arcs of slightly larger radius than that of the balls. By increasing the diameter and number of steel balls and the optimization plan of the internal raceway curvature structure of both inner and outer rings, our engineering team can get a longer bearing life compared to a standard bearing.