

MTWB

*Customized
Bearings*



Miniature to Small DGBB Technical Break-through

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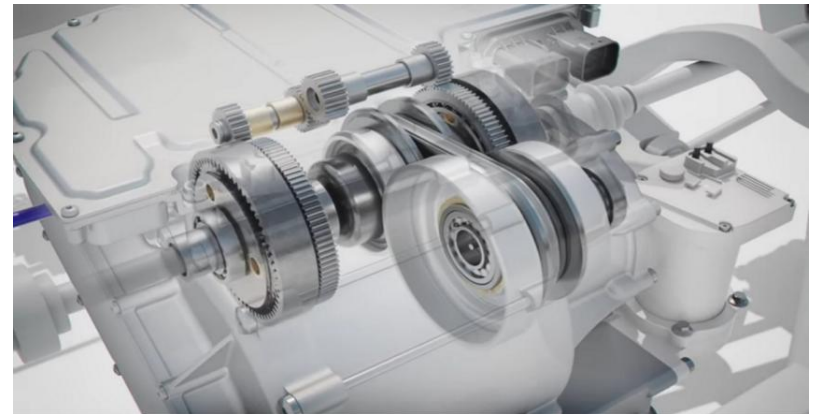
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The World's Smallest Ball Bearing

With the ever-increasing demand for precision bearings, MTWB continuously seeks for technical improvement and up till now can provide you with a full range of ball bearings from 0.6mm ID to 380mm OD. Yes, as small as 0.6mm ID, at P4 precision class! It is by far the smallest precision ball bearing that you can find on earth. Our success for making this world's smallest ball bearing is originally driven by medical application, yet we believe this technology can also be extended to other industrial application.





Low Noise EQM Bearing

Bearings are the key components of electric motors. The key to low noise bearing lies in reducing vibration. By implementing targeted quality control during the grinding process of the inner ring raceway plays an important role in reducing the noise of EQM bearing. Our high-precision machines and top-notch techniques refine every aspect of the bearing – from the raceways to the balls – ensuring they exceed industry standards.

We don't just say MTWB bearings are “quiet”, we guarantee it. First, we conduct 100% inspection on the sealing effect of every bearing before it leaves the factory, in order to reduce the possibility of dust and other debris entering the interior of the bearing ring due to inadequate sealing, which may lead to reduced bearing efficiency over long-term use.

Furthermore, we are also aware that grease has become a major factor influencing bearing noise. MTWB bearings are usually lubed antirust oil for open bearing or lithium-based grease for closed bearing. Also, the specified grease can be used according to the customer's requirement.



In order to accurately assess the noise level of bearings, we need to strictly follow the testing specifications and make full use of noise testers and vibration testers for inspection. The noise detection of bearings is divided into Z1, Z2, Z3, and Z4 levels, while the vibration detection levels are classified as V1, V2, V3, and V4. Among them, motor bearings have stricter requirements for bearing vibrations. Customers can choose different levels based on specific requirements. Through these rigorous testing and evaluation procedures, we guarantee that every batch of bearings meets the criteria for low noise and high efficiency.

Materials matter! That's why we choose only the finest, like G95Cr18 and GCr15 bearing steels, plus corrosion-resistant 300-series stainless steel. These top-grade materials ensure your bearings are strong, durable, and whisper-quiet, ready to perform flawlessly for long haul.

Customization + "Zero-Error" Production = Customer Satisfaction



1. Design Optimization:

Bosch's 6001 bearing features optimized internal dimension (special raceway curvature design), improving lubrication efficiency by 30% and controlling rotational accuracy within $\pm 0.5\mu\text{m}$.

Quote from Bosch Engineer: "The optimized lubrication efficiency of the new 6001 bearings reduced our CVT system's energy consumption by 8%."

2. Lubricant Selection:

ZF's steering system adopts a triple-lip seal structure combined with a special grease (high-temperature silent grease) that gives a reduction of noise by 15dB.

3. "Zero-Error Production" is ensured by Digitalized SPC Production Line.



Customization + "Zero-Error" Production = Customer Satisfaction



606

626

6001

SR620

SR1028

608

627

6202

SR824

SR1232

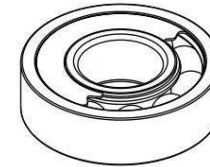
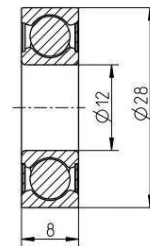


634

635

LV20/7

LV20/8



SG20

62202

SG25

62203

Einbaumaße nach DIN 5418
 Rillenkugellager DIN 625 - 6001 - 2Z - J - P5 - C3M - GH76
 Größe
 beidseitig Deckscheiben
 Stahlblechförmig (Standard)
 Genauigkeit
 radiale Lagerluft 11...25 µm
 KYODO YUSHI MULTEMP SRL