

## What size is a 6203 bearing?

6203 bearings are a similar size to 6204 bearings and have a slightly higher load capacity than 6202. They are made from high quality steel and have an outer diameter of 40mm and an inner diameter of 17mm, with a width of 12mm. The bearings have a deep groove ball bearing design, which means they can handle high loads as well as heavy loads.

The bearings also have a single shielded cage design, which helps to prevent debris from entering the bearing while still allowing lubrication to be applied to the inner race during operation.

The bearings are available in many different types of materials, including steel, carbon steel, stainless steel, brass and bronze, for those looking for a particular material for their application.

### **The [6203 bearing](#) has an inner diameter of 17mm, an outer diameter of 40mm and a width of 12mm.**

The bearings are made of Chrome Steel. The bearing is designed to be used in a variety of applications, including automotive and industrial equipment. In addition to the standard ZZ type bearings, we also sell NTN 6203E tapered roller bearings that have a cone shaped groove on the inner ring raceway face which improves precision, load carrying capacity and durability.

The bearings are designed as a single row deep groove ball bearing with steel cage. The bearings are packed in plastic tubes for delivery. Each bearing consists of two single row deep groove ball bearings mounted back-to-back on either side of an inner or outer ring with two preload springs pressed between them. The spring preload applies tangential force to these balls from both sides, thus providing radial preload.

These bearings can be used in applications where there is high tolerance stack up requirements such as gearboxes and rotary tables where there may be variation in stack up heights between different types of parts being processed at different times.

### **6203 bearings are single row deep groove ball bearings.**

They are used to support both radial and axial loads in applications where the arrangement of the shafts is such that a single row deep groove bearing can be used.

6203 bearings are single row deep groove ball bearings with double-shielded seals. The shields on both sides of the bearing cover 100% of the contact surface and prevent contaminants from penetrating into the interior of the bearing, ensuring excellent protection against water and dust.

6203 bearings have a wide inner ring and a small outer ring, which allows them to accommodate large shaft diameters. These bearings are suitable for high-precision machines such as machinery, instruments, automobiles and motorcycles, as well as mechanical tools

such as lathes and milling machines.

In addition to their excellent performance characteristics, 6203 bearings also offer excellent cost advantages because they feature low operating temperatures.

## **6203 bearings come in many different types.**

The most common type is a deep groove ball bearing. The outer ring has a deep groove along the inner diameter, and the balls ride in these grooves. The balls are held in place by cages, which also prevent them from leaving the bearing under load.

6203 bearings also come in self-aligning ball bearings, which allow for misalignment of up to 2 degrees; this reduces friction and increases durability. They are ideal for applications that require high speed and precision motion, such as timing belts and motors.

Other common types include needle roller bearings and spherical roller bearings. Needle rollers have tapered rollers instead of balls, which provides greater load capacity than a ball bearing but less than a spherical roller. Spherical rollers can be found in many different sizes, from small to large industrial machines that require high torque or speed capabilities.

## **6203 Bearings are made of chrome steel.**

The inner ring is made of a low-carbon alloy steel, the outer ring is made of high-carbon chromium bearing steel. The cage is made of brass and stainless steel. The seal ring is made of NBR or FPM. This type of bearing has many advantages over other types: it has good performance in corrosion resistance and wear resistance, high reliability and strong adaptability to different working conditions (temperature, speed), etc.

6203 bearings can be divided into deep groove ball bearings and thin section deep groove ball bearings according to the different dimensions of their outer rings (the inner diameter and outer diameter). Deep groove ball bearings have a larger contact area than thin section deep groove ball bearings, which can ensure better capacity and long service life; thin section deep groove ball bearings have a smaller size than deep groove ball bearings, which makes them suitable for limited space applications or where weight must be reduced.

## **6203 bearings are used in many ways.**

For example, they are used as roller bearings in the automotive industry and as deep groove ball bearings in the oil and gas industry. They can also be used as high-speed bearings in the wind energy sector.

In addition to being found in many industries, 6203's can also be found in many different applications. Some of these applications include:

Automotive Industry: 6203 bearings are used as roller bearings to support rotating shafts, such as drive shafts or a rear axle shaft. They are also found on steering knuckles and their associated joints.

Oil & Gas Industry: 6203 bearings are used as deep groove ball bearings for supporting heavy loads during drilling operations. These heavy loads can create a lot of vibration that could damage the machinery if it isn't supported properly by high quality bearings like the 6203 bearing.

Wind Energy Sector: High-speed 6203's are used to support turbine blades that rotate at high speeds during operation of wind turbines. Without proper support from high quality bearings like the 6203 bearing, these blades could bend or break causing serious damage to other parts of the turbine system or even cause them to stop working altogether!

The most common 6203 bearing is 40x66x17 mm in size. This bearing is used in various applications, ranging from electric-motor parts to valves and pumps. A 17x40x12 bearing is perfect for a variety of mechanical engineering uses.