

Bearing Designation

Bearing Designations is composed of a basic numbers and letters, denoting bearing specifications such as bearing type/material, boundary dimensions, running accuracy, and internal clearance. This Guide will help you identify bearing and help you pick the right bearing for your specific needs.

Bearing Designation Format Example:



The designations of our Bearings follow a system that may consist of a prefix, numbers and/or suffixes, as shown below:

Prefixes

Prefixes are primarily used to identify components of a bearing or identify bearing variants

- S, S/S – Stainless Steel Bearing
- K - Cage with roller
- L – Removable Bearing Ring
- R – Ring with roller set
- W – Stainless steel deep groove ball

Please note that these are some examples of common prefixes however they may vary as each bearing company uses their own prefixes.

Numbers

The first number will relate to the bearing type. (6)001

1. Self-aligning ball bearing
2. Barrel and Spherical Roller Bearing
3. Tapered Roller Bearing
4. Deep Groove Ball Bearing
5. Axial deep groove ball bearing
6. Deep groove ball bearing (single row)
7. Single row angular contact bearing
8. Axial cylindrical bearing

The **Second** number then relates to the bearing series. **6(0)01**

- 9. Very thin section
- 0. Extra light
- 1. Extra light thrust
- 2. Light
- 3. Medium
- 4. Heavy

The **3rd and 4th** numbers of the bearing number bore size of the bearing. **60(01)**

- 00. 10mm
- 01. 12mm
- 02. 15mm
- 03. 17mm

Over 03. 5 times that of the 3rd and 4th digit

Suffixes

Suffixes identify variants or designs, which differ in some way from the original design or from the current basic design. The suffixes are divided into groups. When more than one special feature is to be identified.

ZZ, 2ZR, ZZ – Bearing with two metal shields

NR – Bearing with snap ring groove and snap ring

Z, ZR – Bearing with one metal shield

RS, RSR – Bearing with one rubber seal

2RS, 2RS1, 2RSR – Bearing with two rubber seals

2ZNR – Bearing with two metal shields with snap ring groove & snap ring

2RSNR – Bearing with two rubber seals with snap ring groove & snap ring

C3 – Indicates that a bearing has a radial internal clearance greater than normal (to allow for heat expansion)

Bearing Clearance – Bearing internal clearance is defined as the entire distance through which one bearing ring can be moved relative to the other in the (radial direction (radial internal clearance)).