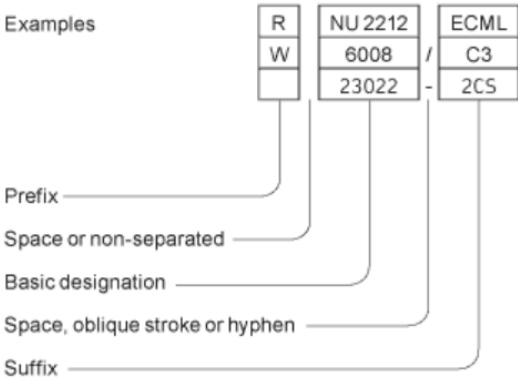


SKF bearing designation

The designations of most SKF rolling bearings follow a bearing designation system. The complete SKF bearing nomenclature may consist of a basic designation with or without one or more supplementary designations. The complete designation is always marked on the bearing package, whereas the marking on the bearing may be incomplete or deviate from the designation. The basic designation identifies:

- SKF bearing type
- SKF basic design
- the boundary dimensions

Prefixes and suffixes identify bearing components or variants having a design and/or feature(s) that differ in some respect from the basic design.



Code	Bearing type	Code	Bearing type	Code	Bearing type
0	Double row angular contact ball bearing	7	Single row angular contact ball bearing	QJ	Four-point contact ball bearing
1	Self-aligning ball bearing	8	Cylindrical roller thrust bearing	T	Tapered roller bearing in accordance with ISO 355:2007
2	Spherical roller bearing, spherical roller thrust bearing	C	CARB toroidal roller bearing		
3	Tapered roller bearing	N	Cylindrical roller bearing. Two or more letters are used to identify the number of the rows or the configuration of the flanges, e.g. NJ, NU, NUP, NN, NNU, NNCF etc.		
4	SKF double row deep groove ball bearing				
5	Thrust ball bearing				
6	SKF single row deep groove ball bearing				

A basic SKF designation typically contains three to five digits. Some products, like cylindrical roller bearings, can have a combination of alphanumeric characters. The number and letter combinations have the following meaning:

- The first digit or letter or combination of letters identifies the bearing type and eventually a basic variant.
- The following two digits identify the ISO dimension series. The first digit indicates the width or height series (dimensions B, T or H). The second digit identifies the diameter series (dimension D).
- The last two digits of the basic designation identify the size code of the bearing bore. The size code multiplied by 5 gives the bore diameter (d) in mm.

SKF diameter series designations

Bearing type	Diameter series		
	7, 8, 9	0, 1	2, 3, 4
Deep groove ball bearings ¹⁾	617, 618, 619	60	2, 3

Bearing type	Diameter series		
	7, 8, 9	0, 1	2, 3, 4
	627, 628	160, 161	42, 43
	637, 638, 639	630	62, 63, 64, 622, 623
Angular contact ball bearings		70	32, 33
			72, 73
			QJ 2, QJ 3
Self-aligning ball bearings ²⁾	139	10, 130	12, 13, 112
			22, 23
Cylindrical roller bearings		NU 10, 20	NU 2, 3, 4, 12, 22, 23
		NJ 10	NJ 2, 3, 4, 22, 23
			NUP 2, 3, 22, 23
			N 2, 3

Bearing type	Diameter series		
	7, 8, 9	0, 1	2, 3, 4
Needle roller bearings	NA 48, 49, 69		
Full complement cylindrical roller bearings	NCF 18, 19, 28, 29	NCF 30	NCF 22
roller bearings	NNC 48, 49	NNF 50	NJG 23
	NNCF 48, 49	NNCF 50	
	NNCL 48, 49		
Spherical roller bearings	238, 239	230, 231	222, 232
	248, 249	240, 241	213, 223
CARB toroidal roller bearings	C 39, 49, 59, 69	C 30, 31	C 22, 23
		C 40, 41	C 32

1) Bearings 604, 607, 608, 609 belong to diameter series 0,

bearings 623, 624, 625, 626, 627, 628 and 629 to diameter series 2,

bearings 634, 635 and 638 to diameter series 3

bearing 607/8 to diameter series 9

2) Bearing 108 belongs to diameter series 0,

bearings 126, 127 and 129 to diameter series 2,

bearing 135 to diameter series 3

The most important exceptions in the basic bearing designation system are:

1. In a few cases the digit for the bearing type or the first digit of the dimension series identification is omitted.
2. Bearings with a bore diameter of 10, 12, 15 or 17 mm have the following size code identifications: e.g. 6300-2RSH (d=10mm)
00 = 10 mm
01 = 12 mm
02 = 15 mm
03 = 17 mm
3. For bearings with a bore diameter < 10 mm, or ≥ 500 mm, the bore diameter is generally given in millimetres (uncoded). The size identification is separated from the rest of the bearing designation by an oblique stroke, e.g. [628/8-2Z](#) (d = 8 mm) or 511/530 (d = 530 mm). This is also true of standard bearings in accordance with ISO 15:2011 that have a bore diameter of 22, 28 or 32 mm, e.g. 62/22 (d = 22 mm).
4. For some bearings with a bore diameter < 10 mm, such as deep groove, self-aligning and angular contact ball bearings, the bore diameter is also given in millimetres (uncoded) but is not separated from the series designation by an oblique stroke, e.g. 608-2RSH/C3 (d=8mm) 629 or 129 (d = 9 mm).
5. Bore diameters that deviate from the standard bore diameter of a bearing are uncoded and given in millimetres up to three decimal places. This bore diameter identification is part of the basic designation and is separated from the basic designation by an oblique stroke, e.g. 6202/15.875 (d = 15,875 mm = 5/8 in).