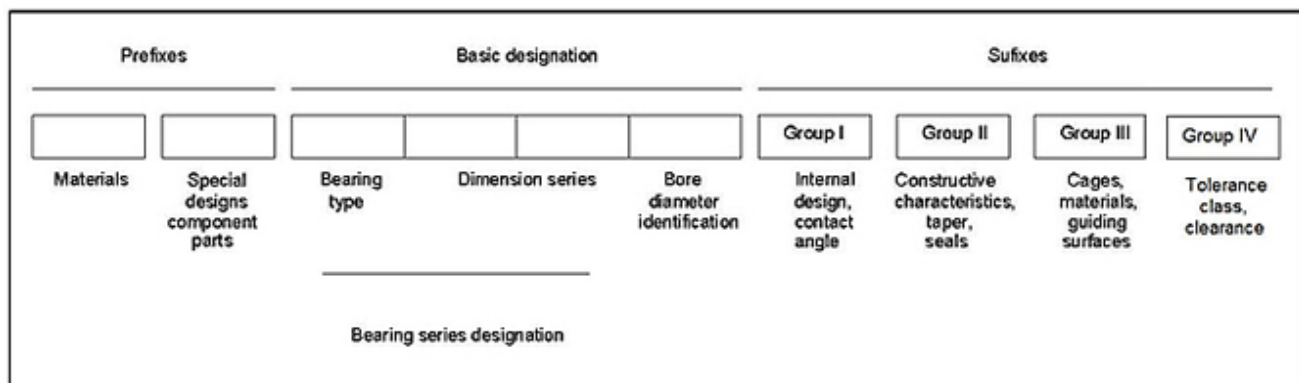


A designation is used to provide each & every different bearing with a unique sequence of numbers and letters for its identification, any bearing with the same or similar designation can be interchangeable both dimensionally and operationally no matter who the manufacturers may be. Designations of JCB bearings are in accordance with those used by world-known bearing companies: SKF, FAG, and KOYO.etc.

The complete designation of a bearing consists of a basic design and may include one or more supplementary designations (prefixes and suffixes), as shown in chart fig.1



The basic designation consists of an identification of the type of bearing (figure or letter), the series designation, in accordance with ISO and the bore diameter identification.

Prefixes:

Prefixes are letter-identifications which indicate the material, other than the steel or component parts of a bearing. The prefix for material is separated by a horizontal line from the rest of designation.

Prefixes for materials

- H - heat-resisting steel
- M - Copper alloy
- S - Plastics, glass, ceramics etc.
- T - Case hardening steel
- X - Stainless steel

Prefixes for special designs or parts of bearings

- K - Cage with rolling elements of dismountable bearing
- L - Free ring of dismountable bearing
- R - Dismountable bearing without free ring
- E - Shaft washer of thrust ball bearing
- W - Housing washer of thrust ball bearing
- WS - shaft washer of roller thrust bearing
- GS - housing washer of roller thrust bearing
- LS - Axial washer, thickness greater than 1 mm

AS - axial washer, thickness less than 1 mm or less

Suffixes:

Suffixes are used to identify various constructive modifications of the bearing in comparison to normal design. They are classified in four different groups, as follows:

Group I - Modifications of internal design, design with increased basic load (E.g. A, C, E etc.), contact angle (e.g. A, B, C) and others.

Group II - Modifications of external design, tapered bore, groove on outer ring etc.

Group III - Modifications of cage design, material, guiding surfaces etc.

Group IV - Modifications of normal design regarding tolerance classes, bearing radial or axial clearance, stability of dimensions at high temperatures, bearing matching etc.

These suffixes for bearing designation are listed considering the groups they belong to, at the beginning of each bearing group.

Cages Material and Centring

J - Pressed steel sheet cage,

Y - Pressed brass sheet cage,

H - One-piece open type steel sheet cage,

F - Machined steel cage,

L - Machined light metal cage,

M - Machined bronze or brass cage,

T - Machined textite cage,

TN -Machined polyamide cage,

A - Cage centred on outer ring,

B -Cage centred on inner ring,

V -Bearing without cage,

Bearings with Shield and Seal

Z, ZR - Metal shield on one side,

-2Z, -2ZR - Metal shields on both sides,

RS - Seal on one side

-2RS, -2RSR - Seals on both sides,

Tolerance Class

P0 - Standard tolerance class not indicated

P6 - Higher tolerance class than P0.

P5 - Higher tolerance class than P6,

P4 - Higher tolerance class than P5,

P2 - Higher tolerance class than P4,

Radial Clearance

C1 - Radial clearance lesser than C2,

C2 - Radial clearance lesser than standard,


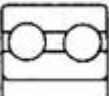




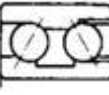



---- - Standard radial clearance, sign is not indicated

C3 - Radial clearance larger than standard,

C4 - Radial clearance larger than C3,

C5 - Radial clearance larger than C4,

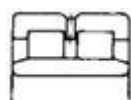
Table 1. Bearing design and identification

	The type of bearing symbol	Size series		Example
		Standardized	Non-standardized	
	6	17,00,04,18,10,22,19,02,23,29,03	50..69	61952 6208 65305
	4	22 23		4204 4305
	E	E B0 LO M		E15 L20
	10	10,03,02,23,22	05..09	1205 11210 1508
	7	18,02,28,28,03,19,04,10	05..09	71932A 7210 7522
	QJ	02 03	05..09	QJ212 QJ505
	0	32 33	34..35	3207 3424D
	NU	19 29 10 02 22 03 23 04 22 03 23 04	51..59	NU208 NU5140
	NJ			NJ2206 NJ5140
	N			N310 N5161M



NUP

NUP209 NUP5410

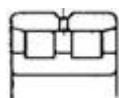


NNU

49

51..57

NNU4920 NNU5124

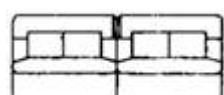


NN

30

51..57

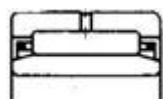
NN3015



NNU

69 60

NNU6064 4NNU5146

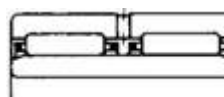


NA

48 49 40

Nad.D.B NAd/B

NA4905 NA121815 NA85/26

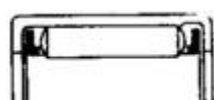


NA

69

Nad.D.B NAd/B

NA6912



RHNA

RHNA.D.B

RHNA303825

The type of bearing symbol

Size series

Standardized

Non-standardized

Example



K

Kd.D.B

K202620



KK

KKd.D.B.

KK606820



Wa

1 2

Wa1d. Wa2d.
Wad.D.B

Wa1070 Wa2630 Wa18022070


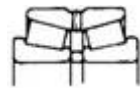
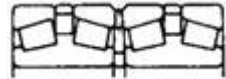


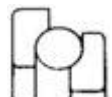
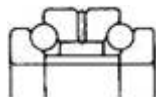

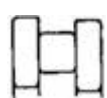
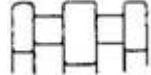





2

39,41,23 30,22,13
40,32,31

51..59

22216 25130

	3	29,02,13 20,22,23 30,32, 31,03	40..49	32010 32208 34115
	35	9,2 0,3 1	04..08	35130 35514
	36	0,2 1,3	04..08	36060
	5	11,13 12,14	51..59	51115 51212 55144
	5	22 23 24	61..69	52205 52308 56120
	Ry	65	66..69	Ry6540 Ry6681
	23	44 47		23420 234720
	8	11 12	51..59	81115 81220 85115
	8	93	51..59	89312 85312
	8	22 23 24	61..69	82210 82315 86144
	9	94	51..59	99450 95140
	2	92 93 94	95..99	29240 29344 29548
	ANK			ANK2035