

### MAIN PREFIX AND SUFFIX SYSTEM



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### Contents

Structure of rolling bearing codes Main prefixes and suffixes 5 6



## Structure of rolling bearing codes

Each rolling bearing is identified by a code which specifies its type, dimensions, tolerances, clearance and, in some cases, further essential characteristics. Rolling bearings of different manufacturers which have the same standardized code in accordance with DIN 623 are interchangeable. The interchangeability of individual parts of separable rolling bearings is not guaranteed. The basic code is formed by the series and bearing bore codes. Prefixes normally indicate rolling bearing components while suffixes identify special designs and characteristics.



# Main prefixes and suffixes

Designation	Description
1	Standardized rolling bearings with uncoded inner diameters
2CZ	Sealed spherical roller bearing
2RS	RS seal at both sides of bearing
2Z	Z shield at both sides of bearing
A, B, C, D, E, SP, EVO, AA	The meaning of these characters attached to the basic code is not specifically fixed. They are used in accordance with requirements for identifying modifications of the bearing design and certain design features. They can also be combined with each other
ABEC1	Approximated to tolerance class PN (P0)
ABEC3	Approximated to tolerance class P6
AR	Outer ring of a rolling bearing which cannot be defined by the prefix L (as a rule non-separable bearings)
ARK	Outer ring with rolling element and cage assembly if the prefix R cannot be used (as a rule non-separable bearings)
AVH	Reinforced/optimized cage design for cylindrical roller bearings
AWT	Anti-wear treatment for extended service life (common for full complement bearings, applied to rolling elements and/or rings. Also available for caged bearings)
C2	Radial internal clearance less than Normal
C3	Radial internal clearance greater than Normal
C3R	Radial internal clearance between upper part of Normal and lower part of C3
C4	Radial internal clearance greater than C3
C5	Radial internal clearance greater than C4
СА	Bearing with symmetrical rollers and retaining ribs. The cage is a one-piece, double pronged machined cage of brass
CAB	As the CA design but with pierced rollers and a pin-type cage of steel
CAF	As the CA design but with a one-piece, double pronged machined cage of steel
CC	Bearing with symmetrical rollers, flangeless inner ring, a non-integral guide ring between the two rows of rollers centred on the inner ring and one pressed steel window-type cage for each roller row
CL2	Dimensional and running accuracy to ISO tolerance class 2
CL3	Dimensional and running accuracy to ISO tolerance class 3
CL4	Dimensional and running accuracy to ISO tolerance class 4
CN	Normal radial internal clearance
E	Modified internal design. Series bearings: usually reinforced/optimized design
EB	Bearing with holes for lifting eye-bolts
ECA	As the CA design but with reinforced/optimized internal execution
G	Helical groove in bearing bore
HA1	Case hardened inner and outer rings
HA2	Case hardened outer ring
HA3	Case hardened inner ring
HA4	Case hardened inner and outer rings and rolling elements
HB1	Bainite hardened inner and outer rings
HB2	Bainite hardened outer ring
HB3	Bainite hardened inner ring
JR	Inner ring of a rolling bearing which cannot be defined by the prefix L (as a rule non- separable bearings)

JRK	Inner ring with rolling element and cage assembly if the prefix R cannot be used (as a rule non-separable bearings)
К	Tapered bearing bore, taper 1:12
К30	Tapered bearing bore, taper 1:30
L	Separable bearing ring, including possible loose lips of separable roller bearings. Also, separable bearing rings which consist of several parts
Μ	Machined brass cage
MA	Machined brass cage, outer ring centred
MAS	Machined brass cage, outer ring centred, with lubrication grooves in the guiding surfaces
MB	Machined brass cage, inner ring guided
MBS	Machined brass cage, inner ring guided, with lubricating grooves in the guiding surfaces
MF	Machined steel cage
Ν	Circular groove for snap ring in the outer ring. N applies only to radial bearings
N1	One locating slot in outer ring side face (to enable stop to be used to prevent ring from rotating)
N2	Two locating slots in outer ring side face (to enable stop to be used to prevent ring from rotating)
NR	Circular groove in the outer ring with an inserted snap ring
P5	Dimensional and running accuracy to ISO tolerance class 5 (better than P6)
P6	Dimensional and running accuracy to ISO tolerance class 6 (better than Normal)
PT1	Phosphate treatment for inner and outer rings
PT2	Phosphate treatment for outer ring
PT3	Phosphate treatment for inner ring
PT4	Phosphate treatment for inner and outer rings and rolling elements
R	Bearing ring with rolling element and cage assembly of separable roller bearings and needle roller bearings
ROVS	Bearing for vibrating machinery
RS	Synthetic rubber seal with sheet steel reinforcement. Rubbing seal at one side of bearing
S1	Dimensionally stable for operating temperatures of up to +200 °C
S2	Dimensionally stable for operating temperatures of up to +250 °C
S3	Dimensionally stable for operating temperatures of up to +300 $^\circ  ext{C}$
U	Spherical seating ring
V	Full complement of balls or rollers
VL	Victory Line, the premium class brand of RKB
W20	Bearing with three lubrication holes in the outer ring
W33	Bearing with annular groove and three lubrication holes in the outer ring
W33X	As W33 but with six lubrication holes
W513	Bearing with six lubrication holes in the inner ring and annular groove and three lubrication holes in the outer ring
Ζ	Pressed steel shield at one side of bearing
ZB	Optimized roller profile



### Notes



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