

Selection by Dimensions (Metric)

Bore Diameter 190 – 200 mm

Bore Diameter	OD	Width	Part Number	Type	Bearing Type
190	320	105	51338M	E	Thrust Ball Bearings
	320	128	24138CAME4	K	Spherical Roller Bearings
	320	128	24138CE4	K	Spherical Roller Bearings
	320	128	24138CK30E4	K1	Spherical Roller Bearings
	320	128	24138JW33	K	Spherical Roller Bearings
	320	78	29338E	O	Spherical Roller Bearings
	340	120	23238CAME4	K	Spherical Roller Bearings
	340	120	23238CE4	K	Spherical Roller Bearings
	340	120	23238CKE4	K1	Spherical Roller Bearings
	340	55	6238	B	Single Row Radial Ball Bearings
	340	55	6238M	B	Single Row Radial Ball Bearings
	340	55	NJ238M	H1	Cylindrical Roller Bearings
	340	55	NU238M	H2	Cylindrical Roller Bearings
	340	92	22238CAME4	K	Spherical Roller Bearings
	340	92	22238CAMKE4	K1	Spherical Roller Bearings
	340	92	22238EKMW33	K1	Spherical Roller Bearings
	340	92	22238EMW33	K	Spherical Roller Bearings
	340	92	NU2238M	H2	Cylindrical Roller Bearings
	340	97	32238J	F	Tapered Roller Bearings
	380	115	29438M	O	Spherical Roller Bearings
	400	132	22338CAME4C4VE	K	Spherical Roller Bearings
	400	132	22338CAME4	K	Spherical Roller Bearings
	400	132	22338CAMKE4	K1	Spherical Roller Bearings
	400	140	32338	F	Tapered Roller Bearings
	400	78	6338M	B	Single Row Radial Ball Bearings
	400	78	NU338M	H2	Cylindrical Roller Bearings
200	250	24	6840M	B	Single Row Radial Ball Bearings
	250	37	51140	E	Thrust Ball Bearings
	280	38	6940M	B	Single Row Radial Ball Bearings
	280	48	29240M	O	Spherical Roller Bearings
	280	48	NCF2940V	H5	Cylindrical Roller Bearings
	280	51	32940J	F	Tapered Roller Bearings
	280	60	23940CAME4	K	Spherical Roller Bearings
	280	62	51240M	E	Thrust Ball Bearings
	280	76	7940ASTRDUMP3	D	Super Precision Bearings
	310	102	7040ASTRDUMP3	D	Super Precision Bearings
	310	109	24040CAME4	K	Spherical Roller Bearings
	310	109	24040CE4	K	Spherical Roller Bearings
	310	109	24040CK30E4	K1	Spherical Roller Bearings
	310	109	24040EJW33	K	Spherical Roller Bearings
	310	149	RS-5040DSE7NAS5	H6	Cylindrical Roller Bearings
	310	34	16040M	B	Single Row Radial Ball Bearings
	310	51	6040	B	Single Row Radial Ball Bearings
	310	51	6040M	B	Single Row Radial Ball Bearings
	310	51	NU1040M	H2	Cylindrical Roller Bearings
	310	70	32040XJ	F	Tapered Roller Bearings
	310	82	23040CAME4	K	Spherical Roller Bearings
	310	82	23040CAMKE4	K1	Spherical Roller Bearings
	310	82	23040EKMW33	K1	Spherical Roller Bearings
	310	82	23040EMW33	K	Spherical Roller Bearings
	310	82	NCF3040V	H5	Cylindrical Roller Bearings
	340	112	23140CAME4	K	Spherical Roller Bearings
	340	112	23140CAMKE4	K1	Spherical Roller Bearings
	340	112	23140CE4	K	Spherical Roller Bearings
	340	112	23140CKE4	K1	Spherical Roller Bearings
	340	140	24140CAME4	K	Spherical Roller Bearings
	340	140	24140CE4	K	Spherical Roller Bearings
	340	140	24140CK30E4	K1	Spherical Roller Bearings
	340	140	24140EJW33	K	Spherical Roller Bearings

Radial Internal Clearances

Nominal Bore Diameter d (mm)		Clearance in Bearings with Cylindrical Bores										Clearance in Bearings with Tapered Bores									
		C2		CN		C3		C4		C5		C2		CN		C3		C4		C5	
over	include	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
24	30	15	25	25	40	40	55	55	75	75	95	20	30	30	40	40	55	55	75	75	95
30	40	15	30	30	45	45	60	60	80	80	100	25	35	35	50	50	65	65	85	85	105
40	50	20	35	35	55	55	75	75	100	100	125	30	45	45	60	60	80	80	100	100	130
50	65	20	40	40	65	65	90	90	120	120	150	40	55	55	75	75	95	95	120	120	160
65	80	30	50	50	80	80	110	110	145	145	180	50	70	70	95	95	120	120	150	150	200
80	100	35	60	60	100	100	135	135	180	180	225	55	80	80	110	110	140	140	180	180	230
100	120	40	75	75	120	120	160	160	210	210	260	65	100	100	135	135	170	170	220	220	280
120	140	50	95	95	145	145	190	190	240	240	300	80	120	120	160	160	200	200	260	260	330
140	160	60	110	110	170	170	220	220	280	280	350	90	130	130	180	180	230	230	300	300	380
160	180	65	120	120	180	180	240	240	310	310	390	100	140	140	200	200	260	260	340	340	430
180	200	70	130	130	200	200	260	260	340	340	430	110	160	160	220	220	290	290	370	370	470
200	225	80	140	140	220	220	290	290	380	380	470	120	180	180	250	250	320	320	410	410	520
225	250	90	150	150	240	240	320	320	420	420	520	140	200	200	270	270	350	350	450	450	570
250	280	100	170	170	260	260	350	350	460	460	570	150	220	220	300	300	390	390	490	490	620
280	315	110	190	190	280	280	370	370	500	500	630	170	240	240	330	330	430	430	540	540	680
315	355	120	200	200	310	310	410	410	550	550	690	190	270	270	360	360	470	470	590	590	740
355	400	130	220	220	340	340	450	450	600	600	750	210	300	300	400	400	520	520	650	650	820
400	450	140	240	240	370	370	500	500	660	660	820	230	330	330	440	440	570	570	720	720	910
450	500	140	260	260	410	410	550	550	720	720	900	260	370	370	490	490	630	630	790	790	1 000
500	560	150	280	280	440	440	600	600	780	780	1 000	290	410	410	540	540	680	680	870	870	1 100
560	630	170	310	310	480	480	650	650	850	850	1 100	320	460	460	600	600	760	760	980	980	1 230
630	710	190	350	350	530	530	700	700	920	920	1 190	350	510	510	670	670	850	850	1 090	1 090	1 360
710	800	210	390	390	580	580	770	770	1 010	1 010	1 300	390	570	570	750	750	960	960	1 220	1 220	1 500
800	900	230	430	430	650	650	860	860	1 120	1 120	1 440	440	640	640	840	840	1 070	1 070	1 370	1 370	
900	1 000	260	480	480	710	710	930	930	1 220	1 220	1 570	490	710	710	930	930	1 190	1 190	1 520	1 520	1 860
1 000	1 120	290	530	530	780	780	1 020	1 020	1 330	-	-	530	770	770	1 030	1 030	1 300	1 300	1 670	-	-
1 120	1 250	320	580	580	860	860	1 120	1 120	1 460	-	-	570	830	830	1 120	1 120	1 420	1 420	1 830	-	-
1 250	1 400	350	640	640	950	950	1 240	1 240	1 620	-	-	620	910	910	1 230	1 230	1 560	1 560	2 000	-	-

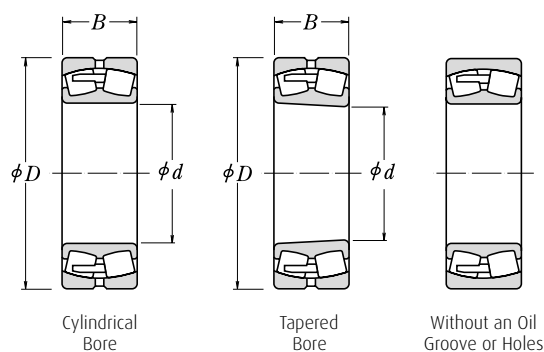
Units: µm

Interchange

	Description	NSK	SKF	FAG	NTN	SNR
Part Number	See Interchange list					
	Polyamide cage			TVPB		
	Steel Cage	C, CD, EA	Blank	Blank	J	A
	Machined Brass Cage	M, CAM	ECA, ECAC	M, MA, MB	L1	M, MB
	Extra Capacity	Blank	E, Explore	E, E1	E	E
	Tight Clearance	C2	C2	C2	C2	J20
	Normal Clearance	Blank	Blank	Blank	Blank	Blank
	Loose Clearance	C3	C3	C3	C3	C3
	Extra Loose Clearance	C4	C4	C4	C4	C4
	Tapered Bore 1:12	K	K	K	K	K
	Tapered Bore 1:30	K30	K30	K30	K30	K30
	Grease Groove and Holes	E4	W33	Blank, S	D1	B33
	Heat Stabilization	S11	Blank	Blank	Blank	Blank
	Vibrating Equipment Specification	U15VS	A15, VA405	T41A	UAVS1	F800, F801

Spherical Roller Bearings

Bore Diameter 160 – 200 mm



Boundary Dimensions (mm)			Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)		Bearing Numbers		Mass (kg)
d	D	B	C _r	C _{0r}	Grease	Oil	Cylindrical Bore	Tapered Bore ¹⁾	approx
160	220	45	360 000	675 000	1 400	1 800	23932CAE4	23932CAKE4	4,97
	240	60	540 000	955 000	1 300	1 700	23032CDE4	23032CDKE4	9,66
	240	80	680 000	1 260 000	1 100	1 400	24032CE4	24032CK30E4	12,7
	270	86	855 000	1 400 000	1 000	1 300	23132CE4	23132CKE4	20,3
	270	109	1 040 000	1 760 000	1 000	1 300	24132CE4	24132CK30E4	25,4
	290	80	910 000	1 320 000	1 200	1 500	22232CDE4	22232CDKE4	23,1
	290	104	1 100 000	1 770 000	1 000	1 300	23232CE4	23232CKE4	30,5
	340	114	1 360 000	1 900 000	1 100	1 300	22332CAE4	22332CAKE4	49,3
170	230	45	350 000	660 000	1 400	1 800	23934BCAE4	23934BCAKE4	5,38
	260	67	640 000	1 090 000	1 200	1 600	23034CDE4	23034CDKE4	13
	260	90	825 000	1 520 000	1 000	1 300	24034CE4	24034CK30E4	17,3
	280	88	940 000	1 570 000	1 000	1 300	23134CE4	23134CKE4	21,8
	280	109	1 080 000	1 860 000	1 000	1 300	24134CE4	24134CK30E4	26,6
	310	86	990 000	1 500 000	1 100	1 400	22234CDE4	22234CDKE4	28,8
	310	110	1 200 000	1 910 000	900	1 200	23234CE4	23234CKE4	36,4
	360	120	1 580 000	2 110 000	1 000	1 200	22334CAE4	22334CAKE4	57,9
180	250	52	470 000	890 000	1 200	1 600	23936CAE4	23936CAKE4	7,64
	280	74	750 000	1 270 000	1 200	1 400	23036CDE4	23036CDKE4	17,1
	280	100	965 000	1 750 000	950	1 200	24036CE4	24036CK30E4	22,7
	300	96	1 050 000	1 760 000	900	1 200	23136CE4	23136CKE4	27,5
	300	118	1 190 000	2 040 000	900	1 200	24136CE4	24136CK30E4	33,1
	320	86	1 020 000	1 540 000	1 100	1 300	22236CDE4	22236CDKE4	30,2
	320	112	1 300 000	2 110 000	850	1 100	23236CE4	23236CKE4	38,9
	380	126	1 740 000	2 340 000	950	1 200	22336CAE4	22336CAKE4	67
190	260	52	460 000	875 000	1 200	1 500	23938CAE4	23938CAKE4	8,03
	290	75	775 000	1 350 000	1 100	1 400	23038CAE4	23038CAKE4	17,6
	290	100	975 000	1 840 000	900	1 200	24038CE4	24038CK30E4	24
	320	104	1 190 000	2 020 000	850	1 100	23138CE4	23138CKE4	34,5
	320	128	1 370 000	2 330 000	850	1 100	24138CE4	24138CK30E4	41,5
	340	92	1 140 000	1 730 000	1 000	1 200	22238CAE4	22238CAKE4	35,5
	340	120	1 440 000	2 350 000	800	1 100	23238CE4	23238CKE4	47,6
	400	132	1 890 000	2 590 000	900	1 100	22338CAE4	22338CAKE4	77,6
200	280	60	570 000	1 060 000	1 100	1 400	23940CAE4	23940CAKE4	11
	310	82	940 000	1 700 000	1 000	1 300	23040CAE4	23040CAKE4	22,6
	310	109	1 140 000	2 120 000	850	1 100	24040CE4	24040CK30E4	30,4
	340	112	1 360 000	2 330 000	800	1 000	23140CE4	23140CKE4	42,7
	340	140	1 570 000	2 670 000	800	1 000	24140CE4	24140CK30E4	51,3
	360	98	1 300 000	2 010 000	950	1 200	22240CAE4	22240CAKE4	42,6
	360	128	1 660 000	2 750 000	750	1 000	23240CE4	23240CKE4	57,1
	420	138	2 000 000	2 990 000	850	1 000	22340CAE4	22340CAKE4	92,6

¹⁾ The suffix K represents bearings with tapered bores (1 : 12 or 1 : 30)

For the dimensions of adapters and withdrawal sleeves, refer to Pages B358 and B364 in Cat. RB/A/GB/...