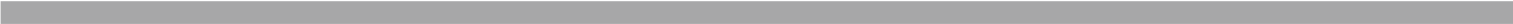


Selection by Dimensions (Metric)

Bore Diameter 140 – 150 mm

Bore Diameter	OD	Width	Part Number	Type	Bearing Type
140	300	102	22328CAME4C4VE	K	Spherical Roller Bearings
	300	102	22328CAME4	K	Spherical Roller Bearings
	300	102	22328CAMKE4	K1	Spherical Roller Bearings
	300	102	22328EKMW33	K1	Spherical Roller Bearings
	300	102	22328EKVBC4	K1	Spherical Roller Bearings
	300	102	22328EMW33	K	Spherical Roller Bearings
	300	102	22328VEC4	K	Spherical Roller Bearings
	300	102	NU2328M	H2	Cylindrical Roller Bearings
	300	107,8	32328	F	Tapered Roller Bearings
	300	58	NJ328M	H1	Cylindrical Roller Bearings
	300	62	6328	B	Single Row Radial Ball Bearings
	300	62	6328M	B	Single Row Radial Ball Bearings
	300	62	7328BM	D	Single Row Angular Contact Ball Bearings
	300	62	7328BMG	D	Single Row Angular Contact Ball Bearings
	300	62	N328M	H	Cylindrical Roller Bearings
	300	62	NF328M	H4	Cylindrical Roller Bearings
	300	62	NU328M	H2	Cylindrical Roller Bearings
	300	62	NU328W	H2	Cylindrical Roller Bearings
	300	62	NUP328M	H3	Cylindrical Roller Bearings
	300	77	31328J	F	Tapered Roller Bearings
	80	44,4	3216M	M	Double Row Angular Contact Ball Bearings
150	190	20	6830	B	Single Row Radial Ball Bearings
	190	20	6830M	B	Single Row Radial Ball Bearings
	190	31	51130	E	Thrust Ball Bearings
	210	28	6930	B	Single Row Radial Ball Bearings
	210	28	6930DDU	B2	Single Row Radial Ball Bearings
	210	36	NCF2930V	H5	Cylindrical Roller Bearings
	210	38	32930	F	Tapered Roller Bearings
	210	56	7930CTRDUMP3	D	Super Precision Bearings
	210	60	NNU4930MBKRE2CC1P4	I1	Super Precision Bearings
	215	50	51230	E	Thrust Ball Bearings
	225	24	16030	B	Single Row Radial Ball Bearings
	225	24	16030M	B	Single Row Radial Ball Bearings
	225	35	6030	B	Single Row Radial Ball Bearings
	225	35	6030DDU	B2	Single Row Radial Ball Bearings
	225	35	6030M	B	Single Row Radial Ball Bearings
	225	35	6030ZZ	B1	Single Row Radial Ball Bearings
	225	35	NU1030M	H2	Cylindrical Roller Bearings
	225	48	32030XJ	F	Tapered Roller Bearings
	225	56	23030CAME4	K	Spherical Roller Bearings
	225	56	23030CDE4	K	Spherical Roller Bearings
	225	56	23030CDKE4	K1	Spherical Roller Bearings
	225	56	23030EKMW33	K1	Spherical Roller Bearings
	225	56	23030EMW33	K	Spherical Roller Bearings
	225	56	NCF3030V	H5	Cylindrical Roller Bearings
	225	56	NN3030MBKRE1CC1P4	I	Super Precision Bearings
	225	70	7030ASTRDULP3	D	Super Precision Bearings
	225	70	7030CTRDUMP3	D	Super Precision Bearings
	225	75	24030CAME4	K	Spherical Roller Bearings
	225	75	24030CE4	K	Spherical Roller Bearings
	225	75	24030CK30E4	K1	Spherical Roller Bearings
	225	75	24030EJW33	K	Spherical Roller Bearings
	225	99	RS-5030DSE7NAS5	H6	Cylindrical Roller Bearings
	240	97	52234	N	Thrust Ball Bearings
	250	100	24130CAME4	K	Spherical Roller Bearings
	250	100	24130CAMK30E4	K1	Spherical Roller Bearings
	250	100	24130CE4	K	Spherical Roller Bearings
	250	100	24130CK30E4	K1	Spherical Roller Bearings
	250	100	24130JW33	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 120 – 150 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
120	180	46	315 000	525 000	1 800	2 200	23024CDE4	23024CDKE4	4,11
	180	60	395 000	705 000	1 500	2 000	24024CE4	24024CK30E4	5,33
	200	62	465 000	720 000	1 400	1 800	23124CE4	23124CKE4	7,85
	200	80	575 000	950 000	1 400	1 800	24124CE4	24124CK30E4	10
	215	58	685 000	765 000	2 400	3 000	22224EAE4	22224EAKE4	8,8
	215	76	630 000	970 000	1 300	1 700	23224CE4	23224CKE4	12,1
	260	86	1 190 000	1 320 000	1 700	2 200	22324EAE4	22324EAKE4	22,2
130	200	52	400 000	655 000	1 700	2 000	23026CDE4	23026CDKE4	5,98
	200	69	495 000	865 000	1 400	1 800	24026CE4	24026CK30E4	7,84
	210	64	505 000	825 000	1 300	1 700	23126CE4	23126CKE4	8,69
	210	80	590 000	1 010 000	1 300	1 700	24126CE4	24126CK30E4	10,7
	230	64	820 000	940 000	2 200	2 600	22226EAE4	22226EAKE4	11
	230	80	700 000	1 080 000	1 200	1 600	23226CE4	23226CKE4	14,3
	280	93	995 000	1 350 000	1 300	1 600	22326CE4	22326CKE4	28,1
140	210	53	420 000	715 000	1 600	1 900	23028CDE4	23028CDKE4	6,49
	210	69	525 000	945 000	1 300	1 700	24028CE4	24028CK30E4	8,37
	225	68	580 000	945 000	1 200	1 600	23128CE4	23128CKE4	10,5
	225	85	670 000	1 160 000	1 200	1 600	24128CE4	24128CK30E4	13
	250	68	645 000	930 000	1 400	1 700	22228CDE4	22228CDKE4	14,5
	250	88	835 000	1 300 000	1 100	1 500	23228CE4	23228CKE4	18,8
	300	102	1 160 000	1 590 000	1 200	1 500	22328CE4	22328CKE4	35,4
150	225	56	470 000	815 000	1 400	1 800	23030CDE4	23030CDKE4	7,9
	225	75	590 000	1 090 000	1 200	1 500	24030CE4	24030CK30E4	10,5
	250	80	725 000	1 180 000	1 100	1 400	23130CE4	23130CKE4	15,8
	250	100	890 000	1 530 000	1 100	1 400	24130CE4	24130CK30E4	19,8
	270	73	765 000	1 120 000	1 300	1 600	22230CDE4	22230CDKE4	18,4
	270	96	975 000	1 560 000	1 100	1 400	23230CE4	23230CKE4	24,2
	320	108	1 220 000	1 690 000	1 100	1 400	22330CAE4	22330CAKE4	41,5

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

An oil groove and holes are standard for the EA type. For the dimensions of adapters and withdrawal sleeves, refer to Pages B354, B355, and B362 in Cat. RB/A/GB/...