

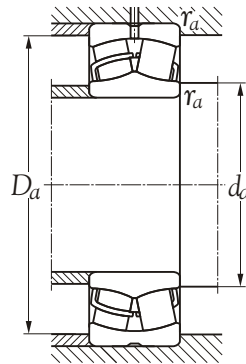


Technical Information



Inner bore <i>d</i> mm	Bearing number	Principal dimensions		Basic load ratings		Max runout speed		Mass kg
		<i>D</i> mm	<i>B</i> mm	dynamic <i>C</i> N	static <i>C</i> <sub>0</sub>	grease r/min	oil r/min	
180	23936 CC/W33	250	52	344800	664000	1100	1500	8.2
180	23936 CCK/W33	250	52	344800	664000	1100	1500	8.2
190	23938 CC/W33	260	52	331200	640000	1100	1500	8.4
190	23938 CCK/W33	260	52	331200	640000	1100	1500	8.4
200	23940 CC/W33	280	60	436800	832000	1100	1400	11.5
200	23940 CCK/W33	280	60	436800	832000	1100	1400	11.5
220	23944 CC/W33	300	60	436800	864000	1000	1300	13.0
220	23944 CCKW33	300	60	436800	864000	1000	1300	13.0
240	23948 CC/W33	320	60	451200	928000	900	1100	14.0
240	23948 CCKW33	320	60	451200	928000	900	1100	14.0
260	23952 CC/W33	360	75	704000	1440000	700	1000	24.0
260	23952 CCKW33	360	75	704000	1440000	700	1000	24.0
280	23956 CC/W33	380	75	676000	1408000	700	900	26.0
280	23956 CCKW33	380	75	676000	1408000	700	900	26.0
300	23960 CC/W33	420	90	960000	2000000	600	900	40.5
300	23960 CCKW33	420	90	960000	2000000	600	900	40.5
320	23964 CC/W33	440	90	992000	2160000	600	800	42.0
320	23964 CCKW33	440	90	992000	2160000	600	800	42.0
340	23968 CC/W33	460	90	1016000	2240000	600	800	45.5
340	23968 CCKW33	460	90	1016000	2240000	600	800	45.5
360	23972 CAC/W33	480	90	1032000	2320000	500	700	46.5
360	23972 CACKW33	480	90	1032000	2320000	500	700	46.5
380	23976 CC/W33	520	106	1384000	3040000	500	700	69.0
380	23976 CCKW33	520	106	1384000	3040000	500	700	69.0
400	23980 CAC/W33	540	106	1384000	3120000	500	600	71.0
400	23980 CACKW33	540	106	1384000	3120000	500	600	71.0
420	23984 CAC/W33	560	106	1408000	3320000	400	600	74.5
420	23984 CACKW33	560	106	1408000	3320000	400	600	74.5
440	23988 CAC/W33	600	118	1680000	3920000	400	500	99.5
440	23988 CACKW33	600	118	1680000	3920000	400	500	99.5
460	23992 CA/W33	620	118	1752000	4000000	300	300	105.0
460	23992 CAKW33	620	118	1752000	4000000	300	300	105.0
480	23996 CA/W33	650	128	2024000	4560000	200	300	125.0
480	23996 CAKW33	650	128	2024000	4560000	200	300	125.0



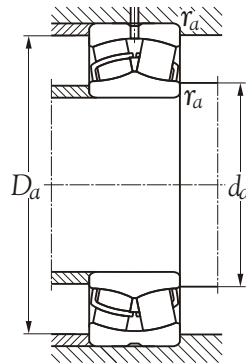


Inner bore $d$ mm	Bearing number	Dimensions (mm)					Abutment and fillet Dimensions (mm)			Calculation factors			
		$d_2$	$D_1$	$r_{1,2}$ min	$b$	$k$	$d_a$ min	$D_a$ max	$r_a$ max	$e$	$Y_1$	$Y_2$	$Y_0$
180	23936 CC/W33	200	231	2.0	5.5	3.0	190	240	2.0	0.18	3.8	5.6	3.6
180	23936 CCK/W33	200	231	2.0	5.5	3.0	190	240	2.0	0.18	3.8	5.6	3.6
190	23938 CC/W33	209	245	2.0	5.5	3.0	200	250	2.0	0.16	4.2	6.3	4.0
190	23938 CCK/W33	209	245	2.0	5.5	3.0	200	250	2.0	0.16	4.2	6.3	4.0
200	23940 CC/W33	222	258	2.1	8.3	4.5	212	268	2.0	0.19	3.6	5.3	3.6
200	23940 CCK/W33	222	258	2.1	8.3	4.5	212	268	2.0	0.19	3.6	5.3	3.6
220	23944 CC/W33	242	278	2.1	8.3	4.5	232	288	2.0	0.16	4.2	6.3	4.0
220	23944 CCKW33	242	278	2.1	8.3	4.5	232	288	2.0	0.16	4.2	6.3	4.0
240	23948 CC/W33	262	297	2.1	8.3	4.5	252	308	2.0	0.15	4.5	6.7	4.5
240	23948 CCKW33	262	297	2.1	8.3	4.5	252	308	2.0	0.15	4.5	6.7	4.5
260	23952 CC/W33	288	331	2.1	8.3	4.5	272	348	2.0	0.18	3.8	5.6	3.6
260	23952 CCKW33	288	331	2.1	8.3	4.5	272	348	2.0	0.18	3.8	5.6	3.6
280	23956 CC/W33	308	351	2.1	11.1	6.0	292	368	2.0	0.16	4.2	6.3	4.0
280	23956 CCKW33	308	351	2.1	11.1	6.0	292	368	2.0	0.16	4.2	6.3	4.0
300	23960 CC/W33	333	385	3.0	11.1	6.0	314	406	2.5	0.19	3.6	5.3	3.6
300	23960 CCKW33	333	385	3.0	11.1	6.0	314	406	2.5	0.19	3.6	5.3	3.6
320	23964 CC/W33	360	405	3.0	11.1	6.0	334	426	2.5	0.18	3.8	5.6	3.6
320	23964 CCKW33	360	405	3.0	11.1	6.0	334	426	2.5	0.18	3.8	5.6	3.6
340	23968 CC/W33	374	426	3.0	11.1	6.0	354	446	2.5	0.17	4.0	5.9	4.0
340	23968 CCKW33	374	426	3.0	11.1	6.0	354	446	2.5	0.17	4.0	5.9	4.0
360	23972 CAC/W33	400	446	3.0	11.1	6.0	374	466	2.5	0.16	4.2	6.3	4.0
360	23972 CACKW33	400	446	3.0	11.1	6.0	374	466	2.5	0.16	4.2	6.3	4.0
380	23976 CC/W33	420	481	4.0	13.9	7.5	398	502	3.0	0.17	4.0	5.9	4.0
380	23976 CCKW33	420	481	4.0	13.9	7.5	398	502	3.0	0.17	4.0	5.9	4.0
400	23980 CAC/W33	446	500	4.0	13.9	7.5	418	522	3.0	0.17	4.0	5.9	4.0
400	23980 CACKW33	446	500	4.0	13.9	7.5	418	522	3.0	0.17	4.0	5.9	4.0
420	23984 CAC/W33	466	519	4.0	16.7	9.0	438	542	3.0	0.16	4.2	6.3	4.0
420	23984 CACKW33	466	519	4.0	16.7	9.0	438	542	3.0	0.16	4.2	6.3	4.0
440	23988 CAC/W33	492	552	4.0	16.7	9.0	458	582	3.0	0.17	4.0	5.9	4.0
440	23988 CACKW33	492	552	4.0	16.7	9.0	458	582	3.0	0.17	4.0	5.9	4.0
460	23992 CA/W33	512	573	4.0	16.7	9.0	478	602	3.0	0.16	4.2	6.3	4.0
460	23992 CAKW33	512	573	4.0	16.7	9.0	478	602	3.0	0.16	4.2	6.3	4.0
480	23996 CA/W33	532	601	5.0	16.7	9.0	502	628	4.0	0.18	3.8	5.6	3.6
480	23996 CAKW33	532	601	5.0	16.7	9.0	502	628	4.0	0.18	3.8	5.6	3.6



Inner bore <i>d</i> mm	Bearing number	Principal dimensions		Basic load ratings		Max runout speed		Mass kg
		<i>D</i> mm	<i>B</i> mm	dynamic <i>C</i> N	static <i>C</i> <sub>0</sub>	grease r/min	oil r/min	
500	239/500 CA/W33	670	128	2024000	4800000	200	300	130
500	239/500 CAK/W33	670	128	2024000	4800000	200	300	130
530	239/530 CA/W33	710	136	2256000	5360000	200	300	155
530	239/530 CAK/W33	710	136	2256000	5360000	200	300	155
560	239/560 CA/W33	750	140	2440000	5760000	200	300	175
560	239/560 CAK/W33	750	140	2440000	5760000	200	300	175
600	239/600 CA/W33	800	150	2760000	6640000	200	200	220
600	239/600 CAK/W33	800	150	2760000	6640000	200	200	220
630	239/630 CA/W33	850	165	3176000	7840000	100	200	280
630	239/630 CAK/W33	85	165	3176000	784000	100	200	280
670	239/670 CA/W33	900	170	3496000	8640000	100	200	315
670	239/670 CAK/W33	900	170	3496000	8640000	100	200	315
710	239/710 CA/W33	950	180	3816000	9600000	100	200	365
710	239/710 CAK/W33	950	180	3816000	9600000	100	200	365
750	239/750 CA/W33	1000	185	4144000	10560000	100	200	420
750	239/750 CAK/W33	1000	185	4648000	10560000	100	200	420
800	239/800 CA/W33	1060	195	4512000	11440000	100	100	470
800	239/800 CAK/W33	1060	195	4512000	11440000	100	100	470
850	239/850 CA/W33	1120	200	4784000	12480000	100	100	560
850	239/850 CAK/W33	1120	200	4784000	12480000	100	100	560
900	239/900 CA/W33	1180	206	5152000	13600000	100	100	605
900	239/900 CAK/W33	1180	206	5152000	13600000	100	100	605
950	239/950 CA/W33	1250	224	5800000	15680000	100	100	755
950	239/950 CAK/W33	1250	224	5800000	15680000	100	100	755
1060	239/1060 CA/W33	1400	250	7640000	20800000	9	100	1100
1060	239/1060 CAK/W33	1400	250	7640000	20800000	90	100	1100
1180	239/1180 CA/W33	1540	272	8880000	24800000	70	100	1400
1180	239/1180 CAK/W3	1540	272	8880000	24800000	70	100	1400





Inner bore $d$ mm	Bearing number	Dimensions (mm)					Abutment and fillet Dimensions (mm)			Calculation factors			
		$d_2$	$D_1$	$r_{1,2}$ min	$b$	$k$	$d_a$ min	$D_a$ max	$r_a$ max	$e$	$Y_1$	$Y_2$	$Y_0$
500	239/500 CA/W33	557	621	5.0	22.3	12	522	648	4	0.17	4.0	5.9	4.0
500	239/500 CAK/W33	557	621	5.0	22.3	12	522	648	4	0.17	4.0	5.9	4.0
530	239/530 CA/W33	589	659	5.0	22.3	12	552	688	4	0.17	4.0	5.9	4.0
530	239/530 CAK/W33	589	659	5.0	22.3	12	552	688	4	0.17	4.0	5.9	4.0
560	239/560 CA/W33	625	695	5.0	22.3	12	582	728	4	0.16	4.2	6.3	4.0
560	239/560 CAK/W33	625	695	5.0	22.3	12	582	728	4	0.16	4.2	6.3	4.0
600	239/600 CA/W33	668	742	5.0	22.3	12	622	778	4	0.17	4.0	5.9	4.0
600	239/600 CAK/W33	668	745	5.0	22.3	12	622	778	4	0.17	4.0	5.9	4.0
630	239/630 CA/W33	705	786	6.0	22.3	12	658	822	5	0.17	4.0	5.9	4.0
630	239/630 CAK/W33	705	786	6.0	22.3	12	658	822	5	0.17	4.0	5.9	4.0
670	239/670 CA/W33	749	834	6.0	22.3	12	698	872	5	0.17	4.0	5.9	4.0
670	239/670 CAK/W33	749	834	6.0	22.3	12	698	872	5	0.17	4.0	5.9	4.0
710	239/710 CA/W33	788	881	6.0	22.3	12	738	922	5	0.17	4.0	5.9	4.0
710	239/710 CAK/W33	788	881	6.0	22.3	12	738	922	5	0.17	4.0	5.9	4.0
750	239/750 CA/W33	832	929	6.0	22.3	12	778	972	5	0.16	4.2	6.3	4.0
750	239/750 CAK/W33	832	929	6.0	22.3	12	778	972	5	0.16	4.2	6.3	4.0
800	239/800 CA/W33	885	984	6.0	22.3	12	828	1032	5	0.16	4.2	6.3	4.0
800	239/800 CAK/W33	885	984	6.0	22.3	12	828	1032	5	0.16	4.2	6.3	4.0
850	239/850 CA/W33	940	1043	6.0	22.3	12	878	1092	5	0.16	4.2	6.3	4.0
850	239/850 CAK/W33	940	1043	6.0	22.3	12	878	1092	5	0.16	4.2	6.3	4.0
900	239/900 CA/W33	989	1100	6.0	22.3	12	928	1152	5	0.15	4.5	6.7	4.5
900	239/900 CAK/W33	989	1100	6.0	22.3	12	928	1152	5	0.15	4.5	6.7	4.5
950	239/950 CA/W33	1049	1161	7.5	22.3	12	986	1214	6	0.15	4.5	6.7	4.5
950	239/950 CAK/W33	1049	1161	7.5	22.3	12	986	1214	6	0.15	4.5	6.7	4.5
1060	239/1060 CA/W33	1133	1303	7.5	22.3	12	1096	1364	6	0.16	4.2	6.3	4.0
1060	239/1060 CAK/W33	1133	1303	7.5	22.3	12	1096	1364	6	0.16	4.2	6.3	4.0
1180	239/1180 CA/W33	1298	1435	7.5	22.3	12	1216	1504	6	0.16	4.2	6.3	4.0
1180	239/1180 CAK/W33	1298	1435	7.5	22.3	12	1216	1504	6	0.16	4.2	6.3	4.0