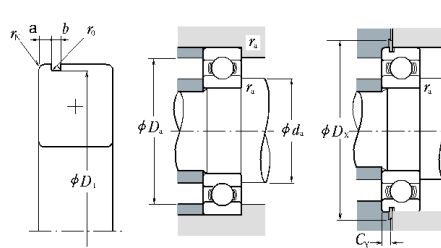
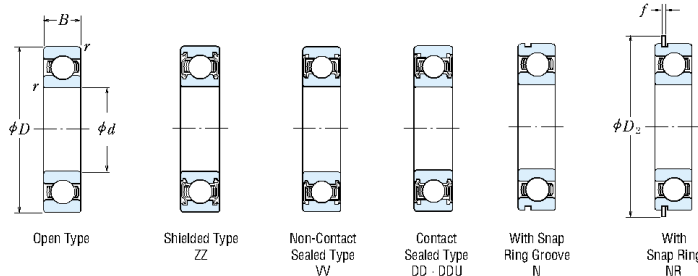


SINGLE-ROW DEEP GROOVE BALL BEARINGS

Bore Diameter 25 – 45 mm



Dynamic Equivalent Load

$P = X F_r + Y F_a$

$\frac{f_0 F_a}{C_{0r}}$	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.30
0.345	0.22	1	0	0.56	1.99
0.689	0.26	1	0	0.56	1.71
1.03	0.28	1	0	0.56	1.55
1.38	0.30	1	0	0.56	1.45
2.07	0.34	1	0	0.56	1.31
3.45	0.38	1	0	0.56	1.15
5.17	0.42	1	0	0.56	1.04
6.89	0.44	1	0	0.56	1.00

Static Equivalent Load

$\frac{F_r}{F_a} > 0.8, P_0 = 0.6 F_r + 0.5 F_a$

$\frac{F_r}{F_a} \leq 0.8, P_0 = F_r$

Boundary Dimensions (mm)				Basic Load Ratings (N)				(kgf)		Factor	Limiting Speeds (min ⁻¹)				Bearing Numbers			
d	D	B	r min.	C _r	C _{0r}	C _r	C _{0r}	f ₀	Grease		Oil		Open	Shielded	Sealed			
									Open	ZZ	YY	DU	DDU					
25	37	7	0.3	4 500	3 150	455	320	16.1	16 000	10 000	22 000	10 000	19 000	6805	ZZ	VD		
	42	9	0.3	7 050	4 500	715	480	15.4	16 000	10 000	19 000	10 000	19 000	6905	ZZ	VDU		
	47	8	0.3	8 850	5 600	905	570	15.1	15 000		18 000		18 000	16005	—	—		
	47	12	0.6	10 100	5 850	1 030	595	14.5	15 000	9 500	18 000		18 000	6005	ZZ	VDU		
	52	15	1	14 000	7 850	1 430	800	13.9	13 000	9 000	15 000		15 000	6205	ZZ	VDU		
28	62	17	1.1	20 600	11 200	2 100	1 150	13.2	11 000	8 000	13 000		13 000	6305	ZZ	VDU		
	52	12	0.6	12 500	7 400	1 270	755	14.5	14 000	8 500	16 000		16 000	60/28	ZZ	VDU		
	58	16	1	16 600	9 500	1 700	970	13.9	12 000	8 000	14 000		14 000	62/28	ZZ	VDU		
	68	18	1.1	26 700	14 000	2 730	1 430	12.4	10 000	7 500	13 000		13 000	63/28	ZZ	VDU		
30	42	7	0.3	4 700	3 650	480	370	16.4	15 000	9 000	18 000		18 000	6806	ZZ	VD		
	47	9	0.3	7 250	5 000	740	510	15.8	14 000	8 500	17 000		17 000	6906	ZZ	VDU		
	56	9	0.3	11 200	7 350	1 150	760	15.2	13 000		15 000		15 000	16006	—	—		
	55	13	1	13 200	8 300	1 350	845	14.7	13 000	8 000	15 000		15 000	6006	ZZ	VDU		
32	62	16	1	19 500	11 300	1 980	1 150	13.8	11 000	7 500	13 000		13 000	6206	ZZ	VDU		
	72	19	1.1	26 700	15 000	2 720	1 530	13.3	9 500	6 700	12 000		12 000	6306	ZZ	VDU		
	58	13	1	15 100	9 150	1 530	935	14.5	12 000	7 500	14 000		14 000	60/32	ZZ	VDU		
	65	17	1	20 700	11 600	2 120	1 190	13.6	10 000	7 100	12 000		12 000	62/32	ZZ	VDU		
35	75	20	1.1	29 900	17 000	3 050	1 730	13.2	9 000	6 300	11 000		11 000	63/32	ZZ	VDU		
	47	7	0.3	4 900	4 100	500	420	16.7	14 000	7 500	16 000		16 000	6807	ZZ	VD		
	55	10	0.6	10 600	7 250	1 080	740	15.5	12 000	7 500	15 000		15 000	6907	ZZ	VDU		
	62	9	0.3	11 700	7 800	1 190	830	15.6	11 000		13 000		13 000	16007	—	—		
	62	14	1	16 000	10 300	1 630	1 050	14.8	10 000	6 700	13 000		13 000	6007	ZZ	VDU		
40	72	17	1.1	25 700	15 300	2 820	1 580	13.8	9 500	6 300	11 000		11 000	6207	ZZ	VDU		
	80	21	1.5	33 500	19 200	3 400	1 950	13.2	8 500	6 000	10 000		10 000	6307	ZZ	VDU		
	52	7	0.3	6 350	5 550	650	565	17.0	12 000	6 700	14 000		14 000	6808	ZZ	VD		
	62	12	0.6	13 700	10 000	1 390	1 020	15.7	11 000	6 300	13 000		13 000	6908	ZZ	VDU		
45	68	9	0.3	12 600	9 650	1 290	985	16.0	10 000		12 000		12 000	16008	—	—		
	68	15	1	16 800	11 500	1 710	1 180	15.3	10 000	6 000	12 000		12 000	6008	ZZ	VDU		
	80	18	1.1	29 100	17 900	2 970	1 820	14.0	8 500	5 600	10 000		10 000	6208	ZZ	VDU		
	90	23	1.5	40 500	24 000	4 150	2 450	13.2	7 500	5 300	9 000		9 000	6308	ZZ	VDU		
50	58	7	0.3	6 600	6 150	670	625	17.2	11 000	6 000	13 000		13 000	6809	ZZ	VD		
	68	12	0.6	14 100	10 900	1 440	1 110	15.9	9 500	5 600	12 000		12 000	6909	ZZ	VDU		
	75	10	0.6	14 900	11 400	1 520	1 160	15.9	9 000		11 000		11 000	16009	—	—		
	75	16	1	20 900	15 200	2 140	1 650	15.3	9 000	5 300	11 000		11 000	6009	ZZ	VDU		
	85	19	1.1	31 500	20 400	3 200	2 080	14.4	7 500	5 300	9 000		9 000	6209	ZZ	VDU		
100	25	1.5	53 000	32 000	5 400	3 250	13.1	6 700	4 800	8 000		8 000	6309	ZZ	VDU			