

Townsend Bearings



Radial Ball Bearings

(an extract from our main Bearing Catalogue)

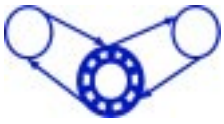


**Townsend
Bearings**



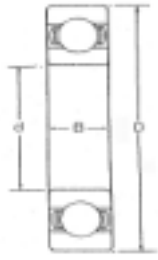
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Townsend Bearings

Single Row Radial
Ball Bearings (METRIC)
Shaft Dia. 10 - 30mm

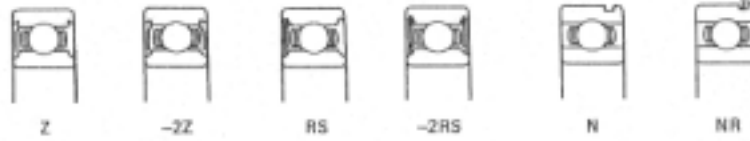
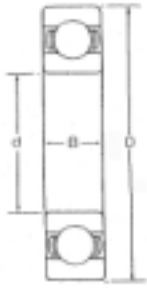


Primary Dimensions			Basic bearing	Variants					Basic Load ratings		Limiting speeds			mass kg	
d	D mm	B		Z	-2Z	RS	-2RS	N	NR	dynamic C ₁	static C _{0r}	grease	oil rev/min		RS/-2RS
10	19	5	61800	*		*				1,380	590	38,000		22,000	0,0055
	22	6	61900	*		*				2,080	850	36,000		20,000	0,010
	26	8	6000	*	*	*				4,750	1,950	25,500	34,500	18,000	0,020
	30	9	6200	*	*	*	*	*	*	6,200	2,650	23,500	32,000	16,500	0,031
	35	11	6300	*	*	*	*			8,400	3,760	21,500	29,000	15,000	0,053
12	21	5	61801	*		*				1,430	670	36,000		20,000	0,0063
	24	6	61901	*		*				2,250	980	32,000		19,000	0,011
	28	8	6001	*	*	*	*			5,300	2,230	23,500	32,000	16,500	0,023
	32	10	6201	*	*	*	*	*	*	750	340	22,000	29,500	15,500	0,034
	32	10	M 201	*	*	*	*	*	*	8,550	3,960	10,900	22,000		0,042
	37	12	6301	*	*	*	*	*	*	10,100	4,640	20,000	27,000	14,000	0,061
15	24	5	61802	*		*				1,560	800	30,000		17,000	0,0074
	28	7	61902	*		*				4,360	2,240	28,000		28,000	0,016
	32	9	6002	*	*	*	*	*	*	5,800	2,510	21,000	28,000	14,600	0,030
	35	11	6202	*	*	*	*	*	*	850	3,530	19,500	26,500	13,800	0,043
	35	11	M 202	*	*	*	*	*	*	9,550	4,450	9,800	19,500		0,054
	42	13	6302	*	*	*	*	*	*	12,300	5,600	17,500	24,000	12,400	0,081
	42	13	M302	*	*	*	*	*	*	13,600	6,500	8,800	17,500		0,099
17	26	5	61803	*		*				1,680	930	28,000		28,000	0,0082
	30	7	61903	*		*				4,620	2,550	26,000		26,000	0,018
	35	10	6003	*	*	*	*	*	*	750	330	19,000	26,000	13,500	0,038
	40	12	6203	*	*	*	*	*	*	9,950	4,470	18,000	24,000	12,500	0,062
	40	12	M 203	*	*	*	*	*	*	11,800	5,650	8,900	18,000		0,077
	47	14	6303	*	*	*	*	*	*	14,500	6,700	16,000	21,500	11,200	0,109
	47	14	M303	*	*	*	*	*	*	17,600	8,900	8,000	16,000		0,131
	62	17	6403	*	*	*	*	*	*	22,100	10,600	12,200	16,500		0,255
	20	32	7	61804	*		*				4,030	2,320	22,000		13,000
37		9	61904	*		*				6,370	3,650	20,000		12,000	0,038
42		8	16004	*		*				7,200	3,370	18,000	22,000		0,050
42		12	6004	*	*	*	*	*	*	9,750	4,450	16,500	22,500	11,600	0,069
47		14	6204	*	*	*	*	*	*	13,300	6,200	15,500	21,000	10,800	0,099
47		14	M 204	*	*	*	*	*	*	18,000	9,350	15,000	18,000		0,116
52		15	6304	*	*	*	*	*	*	16,500	7,800	14,700	20,000	10,300	0,144
52		15	M304	*	*	*	*	*	*	19,600	10,000	7,400	14,000		0,174
72		19	6404	*	*	*	*	*	*	30,700	15,600	10,600	14,000		0,390
25		37	7	61805	*		*				4,360	2,600	19,000		11,000
	42	9	61905	*		*				7,020	4,300	18,000		10,000	0,045
	47	8	16005	*		*				7,500	3,690	14,000	18,000		0,060
	47	12	6005	*	*	*	*	*	*	10,500	4,950	14,600	19,500	10,200	0,080
	52	15	6205	*	*	*	*	*	*	14,500	6,950	14,000	19,000	9,800	0,123
	52	15	M 205	*	*	*	*	*	*	20,800	11,200	13,000	16,000		0,141
	62	17	6305	*	*	*	*	*	*	22,100	10,600	12,200	16,500	8,500	0,220
	62	17	M 305	*	*	*	*	*	*	31,200	17,400	11,000	14,000		0,257
	80	21	6405	*	*	*	*	*	*	34,700	17,900	9,400	12,700		0,526
	30	42	7	61806	*		*				4,490	2,900	16,000		9,500
47		9	61906	*		*				7,280	4,550	15,000		8,500	0,051
55		9	16006	*		*				11,700	5,950	12,000	15,000		0,085
55		13	6006	*	*	*	*	*	*	15,700	7,750	12,600	17,000	8,800	0,116
62		16	6306	*	*	*	*	*	*	20,200	10,000	11,700	15,500	8,200	0,198
62		16	M 306	*	*	*	*	*	*	28,200	15,700	11,000	14,000		0,218
72		19	6306	*	*	*	*	*	*	30,800	15,800	10,600	14,000	7,400	0,331
72		19	M366	*	*	*	*	*	*	35,700	22,400	9,500	12,000		0,378
90		23	6406	*	*	*	*	*	*	42,200	21,700	8,400	11,300		0,689

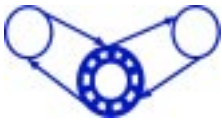
Single Row Radial
Ball Bearings (METRIC)
Shaft Dia. 35 - 60mm



**Townsend
Bearings**

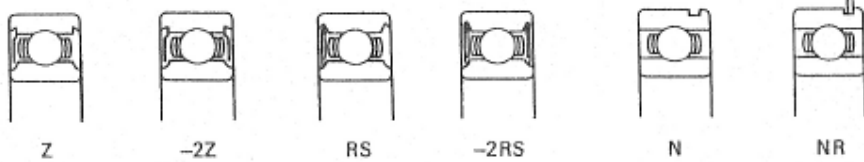
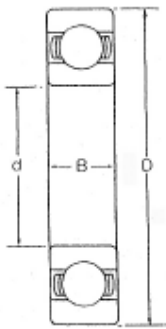


Primary Dimensions			Basic bearing	Variants						Basic Load ratings		Limiting speeds			mass kg
d	D mm	B		Z	-2Z	RS	-2RS	N	NR	dynamic C ₁	static C _{0r}	grease	oil rev/min	RS/-2RS	
35	47	7	61807	*		*				4,750	3,200	14,000		8,000	0,03
	55	10	61907	*		*				9,560	6,800	13,000		7,500	0,08
	62	9	16007							12,700	6,950	10,500	13,000		0,110
	62	14	6007	*	*	*	*	*	*	16,600	8,500	11,200	15,000	7,800	0,156
	72	17	6207	*	*	*	*	*	*	26,700	13,600	10,100	13,600	7,100	0,276
	72	17	M 207	*	*	*	*	*	*	36,400	20,900	7,500	10,100		0,304
	80	21	6307	*	*	*	*	*	*	34,600	17,900	9,400	12,700	6,600	0,446
	80	21	M307	*	*					42,800	24,600	8,500	10,000		0,511
	100	25	6407						55,000	29,900	7,500	10,200		0,916	
40	52	7	61808	*		*				4,940	3,450	13,000		7,500	0,034
	62	12	61908	*		*				13,800	10,000	12,000		6,700	0,12
	68	9	16008							13,700	7,950	9,500	12,000		0,125
	68	15	6008	*	*	*	*	*	*	19,700	10,300	10,100	13,600	7,100	0,191
	80	18	6208	*	*	*	*	*	*	34,000	17,800	9,000	12,200	6,300	0,351
	80	18	M 208	*	*					38,700	22,600	8,500	10,000		0,397
	90	23	6308	*	*	*	*	*	*	46,200	24,700	8,400	11,300	5,900	0,590
	90	23	M 305	*	*			*	*	60,500	37,100	7,500	9,000		0,796
	110	27	6408						64,500	35,600	6,800	9,200		1,21	
45	58	7	61809	*		*				6,630	6,100	11,000		6,700	0,04
	68	12	61909	*		*				14,000	10,800	10,000		6,000	0,14
	75	10	16009							16,200	9,400	8,500	10,500		0,170
	75	16	6009	*	*	*	*	*	*	24,400	13,400	9,100	12,300	6,400	0,245
	85	19	6209	*	*	*	*	*	*	34,000	17,800	8,400	11,400	5,900	0,397
	85	19	M 209	*	*			*	*	45,700	27,700	8,000	9,500		0,460
	100	25	6309	*	*	*	*	*	*	54,900	29,900	7,500	10,200	5,300	0,794
	100	25	M 309	*	*			*	*	68,000	41,200	6,700	8,000		0,942
	120	29	6409						74,500	41,800	6,200	8,400		1,53	
50	65	7	61810	*		*				6,760	6,800	10,000		6,000	0,052
	72	12	61910	*		*				14,600	11,800	9,500		5,600	0,14
	80	10	16010							16,700	10,000	8,000	10,000		0,180
	80	16	6010	*	*	*	*	*	*	22,700	13,100	8,300	11,200	5,800	0,264
	90	20	6210	*	*	*	*	*	*	36,500	19,800	7,800	10,600	5,500	0,446
	90	20	M 210	*	*			*	*	47,800	29,700	7,500	9,000		0,511
	110	27	6310	*	*	*	*	*	*	64,500	35,600	6,800	9,200	4,800	1,06
	110	27	M 310	*	*			*	*	84,500	53,500	6,000	7,000		1,22
	130	31	6410						85,000	48,500	5,700	7,700		1,90	
55	72	9	61811	*		*				9,040	8,800	9,500		5,300	0,083
	80	13	61911	*		*				16,500	14,000	8,500		5,000	0,19
	90	11	16011							20,100	12,400	7,500	9,000		0,271
	90	18	6011	*	*	*	*	*	*	29,400	17,000	7,600	10,300	5,300	0,394
	100	21	6211	*	*	*	*	*	*	45,100	25,100	7,100	9,500	4,900	0,590
	100	21	M211	*	*			*	*	59,000	37,600	6,700	8,000		0,690
	120	29	6311	*	*	*	*	*	*	74,000	41,800	6,200	8,400	4,400	1,35
	120	29	M311	*	*			*	*	97,000	62,500	5,300	6,300		1,67
	140	33	4411						96,500	55,500	5,300	7,100		2,31	
60	78	10	61812	*		*				11,900	11,400	8,500		4,800	0,11
	85	13	61912	*		*				16,500	14,300	8,000		4,500	0,20
	95	11	16012							20,700	13,100	7,000	8,500		0,288
	95	18	6012	*	*	*	*	*	*	33,600	19,700	7,100	9,600	5,000	0,419
	110	22	6212	*	*	*	*	*	*	54,500	30,900	6,400	8,700	4,500	0,771
	110	22	M 212	*	*			*	*	71,500	46,400	6,000	7,000		0,886



Townsend Bearings

Single Row Radial
Ball Bearings (METRIC)
Shaft Dia. 60 - 85mm

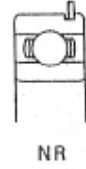
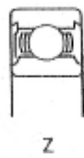
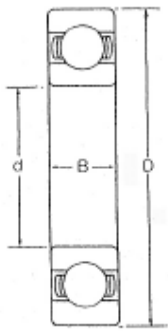


Primary Dimensions			Basic bearing	Variants						Basic Load ratings		Limiting speeds			mass kg
d	D mm	B		Z	-2Z	RS	-2RS	N	NR	dynamic C ₁	static C _{0r}	grease	oil rev/min	RS/-2RS	
60	130	31	6312	*	*	*	*	*	*	85,000	48,500	5,700	7,700	4,000	1,69
	130	31	M312	*				*	*	112,000	72,500	5,000	6,000		2,10
	150	35	6412							108,000	63,500	4,900	6,600		2,80
65	85	10	61813		*			*		12,400	12,700	8,000		4,500	0,13
	90	13	61913		*			*		17,400	16,000	7,500		4,300	0,22
	100	11	16013							22,000	14,700	6,300	7,500		0,30
	100	18	6013	*	*	*	*	*	*	31,800	19,600	6,700	9,000	4,711	0,449
	120	23	6213	*	*	*	*	*	*	59,500	34,100	5,900	7,900	4,100	0,966
	120	23	M213	*				*	*	85,000	56,000	5,300	6,300		1,11
	140	33	6313	*	*	*	*	*	*	96,500	55,500	4,300	7,100	3,700	2,07
	140	33	M313	*				*	*	126,000	83,500	4,500	5,300		2,37
160	37	6413							118,000	71,500	4,600	6,200		3,25	
70	90	10	61814		*		*			12,400	13,200	7,500		4,300	0,14
	100	16	61914		*		*			23,800	21,200	7,000		4,000	0,35
	110	13	16014							28,900	18,900	6,000	7,000		0,451
	110	20	6014	*	*	*	*	*	*	42,700	25,700	6,100	8,200	4,300	0,608
	125	24	6214	*	*	*	*	*	*	64,500	37,400	5,600	7,500	3,900	1,05
	125	24	M214	*				*	*	88,500	60,000	5,000	6,000		1,22
	150	35	6314	*	*	*	*	*	*	108,000	63,500	4,900	6,600	3,400	2,49
	150	35	M314	*				*	*	142,000	95,000	4,300	5,000		2,89
180	42	6414							138,000	89,500	4,000	5,400		5,03	
75	95	10	61815		*		*			12,700	14,300	7,000		4,000	0,15
	105	16	61915		*		*			24,200	19,300	6,300		3,600	0,37
	115	13	16015							29,800	20,000	5,600	6,700		0,476
	115	20	6015	*	*	*	*	*	*	26,100	5,800	7,800	4,500		0,68
	130	25	6215	*	*	*	*	*	*	69,000	41,200	5,300	7,100	3,700	1,13
	130	25	M215	*				*	*	88,500	60,000	2,600	5,300		1,47
	160	37	6315	*	*	*	*	*	*	118,000	71,500	4,600	6,200	3,200	2,98
	160	37	M315	*				*	*	155,000	107,000	2,300	4,600		3,66
190	45	6415							148,000	99,000	3,700	5,000		6,74	
80	100	10	61816		*		*			13,000	15,000	6,300		3,600	0,15
	110	16	61916		*		*			25,100	20,400	6,000		3,400	0,40
	125	14	16016							33,400	23,300	5,300	6,300		0,634
	125	22	6016			*	*	*	*	49,000	31,300	5,300	7,200	3,700	0,907
	140	26	6216	*	*	*	*	*	*	80,500	49,000	4,900	6,600	3,400	1,37
	140	26	M216	*				*	*	99,000	67,000	2,400	4,900		1,78
	170	39	6316	*	*	*	*	*	*	128,000	80,000	4,200	5,700	2,900	3,58
	170	39	M316	*				*	*	158,000	110,000	2,100	4,200		4,54
200	48	6416							170,000	125,000	1,900	3,700		8,30	
85	110	13	61817		*		*			19,500	20,800	6,000		3,400	0,27
	130	14	16017							35,300	24,800	5,000	6,000		0,641
	130	22	6017			*	*	*	*	51,500	33,500	5,000	6,800	3,500	0,907
	150	28	6217	*	*	*	*	*	*	57,500	52,500	4,500	6,100	3,100	1,71
	150	28	M217	*				*	*	115,000	78,500	2,300	4,500		2,13
	180	41	6317	*	*			*	*	138,000	89,500	4,000	5,400		4,25
	180	41	M317	*				*	*	181,000	134,000	2,000	4,000		5,23
210	52	6417							159,000	109,000	1,700	3,400		9,84	

Single Row Radial
Ball Bearings (METRIC)
Shaft Dia. 90 - 130mm



**Townsend
Bearings**

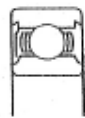
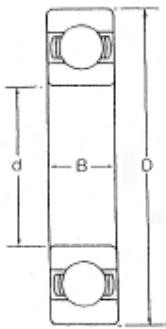


Primary Dimensions			Basic bearing	Variants				Basic Load ratings		Limiting speeds			mass kg	
d	D mm	B		Z	-2Z	RS	-2RS	N	NR	dynamic C ₁	static C _{0r}	grease		oil rev/min
90	115	13	61818	*					19,500	22,000	5,600		3,200	0,28
	140	16	16018						43,100	29,500	4,500	5,300		0,856
	140	24	6018					*	60,500	39,100	4,500	6,300		1,16
	160	30	6218	*	*	*	*	*	93,000	57,500	4,300	5,800	3,000	2,57
	160	30	M 218	*					119,000	83,500	2,100	4,200		2,68
	190	43	6318	*	*			*	148,000	99,000	3,700	5,000		5,85
	190	43	M 316						195,000	148,000	1,900	3,700		6,23
	225	54	6418						170,000	120,000	1,600	3,200		12,4
95	120	13	61819	*				*	19,900	22,800	5,300		3,000	0,30
	145	16	16019						41,400	30,300	4,500	5,300		0,948
	145	24	6019			*	*		63,000	41,900	4,400	6,000	3,100	1,21
	170	32	6219	*				*	106,000	66,500	4,000	5,400		2,72
	170	32	M219					*	148,000	104,000	2,000	4,000		3,31
	200	45	6319					*	149,000	99,000	3,500	4,700		6,80
	200	45	M319						195,000	148,000	1,800	3,500		7,23
100	125	13	61820	*				*	19,900	24,000	5,300		3,000	0,31
	150	16	16020						45,600	33,100	4,100	4,900		0,910
	150	24	6020						62,500	42,000	4,300	5,890		1,42
	180	34	6220					*	120,000	74,500	3,800	5,100		3,12
	180	34	M 220	*					167,000	119,000	1,900	3,800		3,96
	215	47	6320					*	170,000	120,000	3,200	4,400		7,03
	215	47	M 320						223,000	180,000	1,600	3,200		8,64
	250	58	6420						214,000	170,000	1,400	2,900		16,2
105	130	13	61821	*				*	20,800	19,600	5,000		2,800	0,32
	160	26	6021						75,500	51,000	2,000	4,000		1,62
	190	36	6221						135,000	87,000	3,500	4,700		4,42
	225	49	6321						191,000	143,000	3,100	4,200		9,53
	110	140	16	61822	*				*	28,100	26,000	4,500		2,600
170		19	16022						59,500	42,700	3,700	4,400		1,46
170		28	6022					*	85,500	57,500	3,800	5,100		1,97
200		38	6222	*	*			*	147,000	98,500	3,300	4,400		5,17
200		38	M 222	*					181,000	134,000	1,600	3,300		5,43
240		50	6322						203,000	155,000	2,900	3,900		9,70
120		150	16	61824	*				*	29,100	28,000	4,300		2,400
	180	19	16024						53,500	47,700	3,400	4,000		1,67
	180	28	6024						86,000	60,000	3,500	4,700		2,39
	215	40	6224						150,000	102,000	3,000	4,100		6,02
	215	40	M 224						212,000	168,000	1,500	3,000		6,52
	260	55	6324						226,000	180,000	2,600	3,500		15,4
130	165	18	61826	*				*	37,700	43,000	3,800		2,200	0,93
	200	33	6026						109,000	77,500	3,100	4,200		3,63
	230	40	6226						172,000	123,000	2,700	3,700		7,08
	230	40	M 326						220,000	179,000	1,400	2,700		7,32
	280	58	6326						250,000	208,000	2,400	3,200		18,4

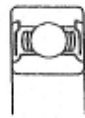


Townsend Bearings

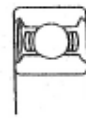
Single Row Radial
Ball Bearings (METRIC)
Shaft Dia. 140 - 260mm



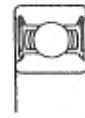
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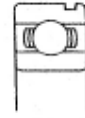
-ZZ



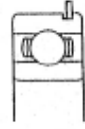
RS



-2RS



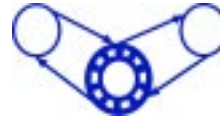
N



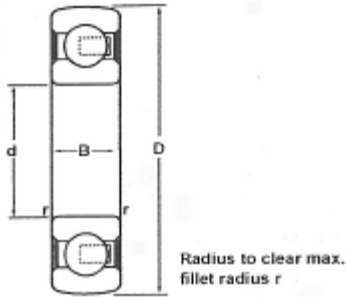
NR

Primary Dimensions			Basic bearing	Variants					Basic Load ratings		Limiting speeds			mass kg
d	D mm	B		Z	-ZZ	RS	-2RS	N	NR	dynamic C ₁	static C _{0r}	grease	oil rev/min	
140	175	18	61828	*	*				39,000	46,500	3,600		2,000	0,99
	210	33	6028						113,000	82,500	2,900	3,900		3,81
	250	42	6228						184,000	136,000	2,500	3,400		8,98
	300	62	6328						263,000	223,000	2,200	2,900		22,4
150	225	35	6030						134,000	97,500	1,300	2,700		4,94
	270	45	6230						183,000	136,000	2,300	3,100		11,0
	320	65	6330						288,000	253,000	2,000	2,700		24,9
160	240	38	6032						145,000	104,000	1,200	2,400		5,95
	290	48	6232						238,000	196,000	2,100	2,800		13,7
	340	68	6332						313,000	286,000	1,900	2,500		32,1
170	260	42	6034						175,000	134,000	2,200	3,000		7,74
	310	52	6234						237,000	196,000	1,000	2,000		16,7
	360	72	6334						339,000	321,000	1,700	2,300		37,4
180	280	46	6036						181,000	140,000	1,000	2,000		10,7
	320	52	6236						266,000	230,000	1,800	2,500		17,2
	380	75	6336						352,000	357,000	800	1,600		40,8
190	340	55	6238						281,000	248,000	1,700	2,300		21,7
	400	78	6338						397,000	402,000	750	1,500		49,8
200	360	58	6240						279,000	251,000	1,600	2,200		25,4
	420	80	6340						425,000	444,000	700	1,400		63,5
220	400	65	6244						356,000	348,000	1,400	1,900		36,4
240	440	72	6248						386,000	393,000	1,200	1,700		48,5
260	480	80	6252						405,000	490,000	1,100	1,500		70,3

Single Row Radial Ball Bearings
with Spherical Outside Diameter (METRIC)
Shaft Dia. 17 - 50mm



**Townsend
Bearings**



Primary dimensions			Basic bearing	Basic Load ratings		Limiting speeds	mass	
d	D	B		dynamic C ₁	static C ₀			
mm			r	N		rev/min	kg	
17	40	12	0.6	1726203-2RS	7 300	4 760	12 500	0,06
20	47	14	1.0	1726204-2RS	9 850	6 580	10 800	0,10
25	52	15	1,0	1726205-2RS	10 800	7 880	9 800	0,12
30	62	16	1,0	1726206-2RS	15 000	11 300	8 200	0,20
35	72	17	1,0	1726207-2RS	19 700	15 300	7 100	0,28
40	80	18	1,0	1726208-2RS	22 400	17 400	6 300	0,35
	90	23	1,5	1726208-2RS	31 400	23 900	5 900	0,60
45	85	19	1,0	1726209-2RS	25 100	20 500	5 900	0,40
	100	25	1,5	1726209-2RS	40 600	31 700	5 300	0,80
50	90	20	1,0	1726210-2RS	27 000	23 200	5 500	0,50
	100	27	2,0	1726210-2RS	47 600	37 900	4 800	1,10

These bearings can be supplied fitted into standard Self-Lube housings. The complete unit reference is obtained by adding the bearing bore size and "-2RS" to the basic housing series reference: e.g. NP25-2RS



Townsend Bearings

Single Row Separable
Ball Bearings - Magneto Type (METRIC)
Shaft Dia. 3 - 20mm

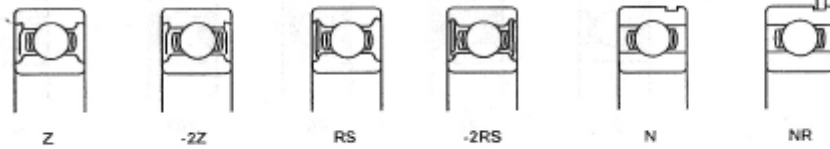
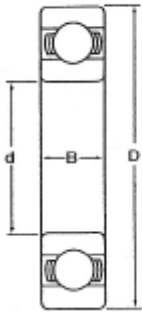


Primary dimensions			Basic bearing	Basic Load ratings		Limiting speeds		mass kg
d mm	D	B		dynamic C ₁ N	static C _{0r}	grease rev/min	oil	
3	16	5	E3	1 620	260	33 000	41 200	0,005
4	16	5	E4	1 620	260	33 000	41 200	0,005
5	16	5	E5	1 620	260	33 000	41 200	0,005
6	21	7	E6	2 960	410	30 000	37 500	0,011
7	22	7	E7	3 180	480	29 000	36 200	0,013
8	24	7	E8	3 370	540	28 000	35 000	0,016
9	28	8	E9	4 430	740	26 000	32 500	0,023
10	28	8	E10	4 430	740	26 000	32 500	0,022
12	32	7	E12	3 570	750	23 000	28 700	0,028
13	30	7	E13	3 570	750	25 000	31 200	0,022
15	35	8	E15	4 700	1 020	20 000	25 000	0,034
17	40	10	E17	5 300	1 350	17 000	21 200	0,055
20	47	12	E20	9 200	2 080	14 000	17 500	0,089

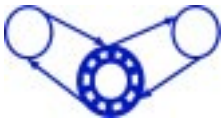
Single Row Radial
Ball Bearings (IMPERIAL)
Shaft Dia. 1/8 - 1 1/4 inch



**Townsend
Bearings**



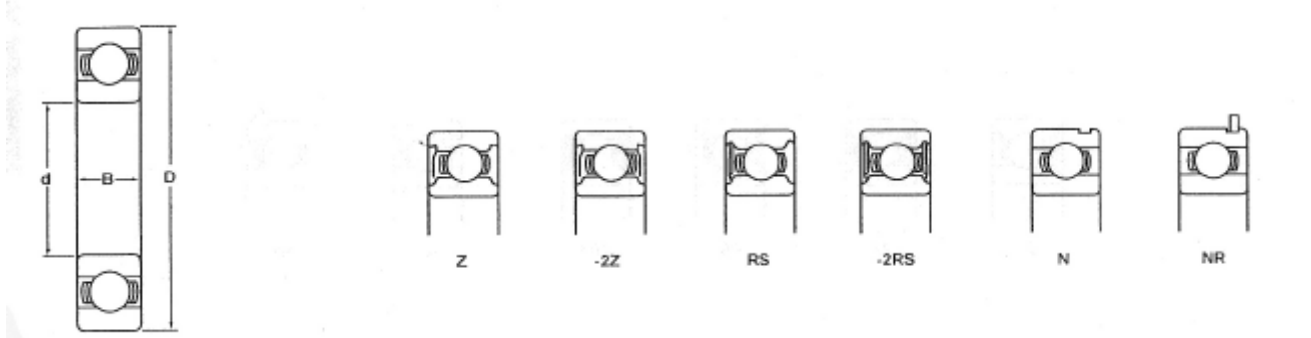
Primary dimensions			Basic bearing	Variants						Basic Load ratings		Limiting speeds			mass kg
d mm	D	B		Z	-2Z	RS	-2RS	N	NR	dynamic C _r N	static C _{0r}	grease rev/min	oil	RS/-2RS	
1/8	3/8	5/32	KLNJ1/8							670	215	38 000	45 000		0,0013
3/16	1/2	5/32	KLNJ3/16							1 350	490	35 000	43 000		0,0026
1/4	3/4	7/32	KLNJ1/4							2 550	990	33 000	41 000		0,008
	3/4	9/32	(KLNJ1/4)	*			*			2 550	990	33 000	22 000		0,009
3/8	7/8	7/32	KLNJ3/8							3 460	1 360	29 000	36 000		0,011
	7/8	9/32	(KLNJ3/8)	*	*	*	*			3 460	1 360	29 000	36 000	20 000	0,012
	1 1/2	9/16	MJ3/8							10 100	4 640	20 000	27 000		0,074
1/2	1 1/8	1/4	KLNJ1/2							4 180	1 740	23 000	31 000		0,019
	1 1/8	5/16	(KLNJ1/2)	*	*	*	*			4 180	1 740	23 000	31 000	16 000	0,023
	1 5/16	3/8	LJ1/2	*	*	*	*			6 950	3 030	21 000	28 500	14 700	0,037
	1 5/8	5/8	MJ1/2	*	*	*	*			12 100	5 600	18 500	25 000	12 900	0,096
5/8	1 3/8	9/32	KLNJ5/8							5 800	2 510	20 000	27 000		0,033
	1 3/8	11/32	(KLNJ5/8)		*		*			5 800	2 510	20 000			0,040
	1 13/16	7/16	LJ5/8	*	*	*	*			10 900	5 000	18 000	24 000	12 500	0,059
	1 13/16	5/8	MJ5/8	*	*	*	*			12 600	5 600	16 500	22 000	11 500	0,117
3/4	1 5/8	5/16	KLNJ3/4							8 200	3 800	17 000	22 500		0,048
	1 5/8	7/16	(KLNJ3/4)	*	*					8 200	3 800	17 000	22 500		0,066
	1 7/8	9/16	LJ3/4	*	*	*	*			14 200	6 550	15 500	21 000	10 800	0, 109
	2	1 1/16	MJ3/4	*	*	*	*			500	7 800	14 700	20 000	10 300	0, 156
7/8	1 7/8	3/8	KLNJ7/8							12 000	5 650	14 800	20 000		0,078
	1 7/8	1/2	(KLNJ7/8)		*		*			12 000	5 650	14 800			0,102
	2	9/16	LJ7/8	*	*	*	*			14 400	6 550	14 300	19 500	10 000	0,116
	2 1/4	1 1/16	MJ7/8	*	*	*	*			19 200	9 150	13 300	18 000	9 300	0,197
1	2	3/8	KLNJ1							11 800	5 950	13 600	18 500		0,085
	2	1/2	(KLNJ1)	*	*	*	*			11 800	5 950	13 600	18 500	9 500	0,112
	2 1/4	5/8	LJ1	*	*	*	*	*	*	18 600	8 900	12 700	17 000	8 900	0, 169
2 1/2	3/4	MJ1	*	*	*	*	*	*	22 100	10 600	12 200	16 500	8 500	0,262	
1 1/8	2 1/8	3/8	KLNJ1 1/8							11 700	5 950	13 000	17 500		0,088
	2 1/2	5/8	LJ1 1/8	*	*	*	*	*	*	20 200	10 000	11 700	15 500	8 200	0,219
	2 13/16	13/16	MJ1 1/8	*	*	*	*	*	*	30 800	15 800	10 800	14 500	7 500	0,347
1 1/4	2 1/4	3/8	KLNJ1 1/4							12 800	6 950	11 900	16 000		0,096
	2 1/4	1/2	(KLNJ1 1/4)	*	*	*	*	*	*	12 800	6 950	11 900			0,128
	2 3/4	1 1/16	LJ1 1/4	*	*	*	*	*	*	27 700	13 900	10 600	14 400	7 400	0,276
	3 1/8	7/8	MJ1 1/4	*	*	*	*	*	*	37 700	19 500	9 800	13 200	6 800	0,476



Townsend Bearings

Single Row Radial Ball Bearings (IMPERIAL)

Shaft Dia. 1³/₈ - 3¹/₄ inch

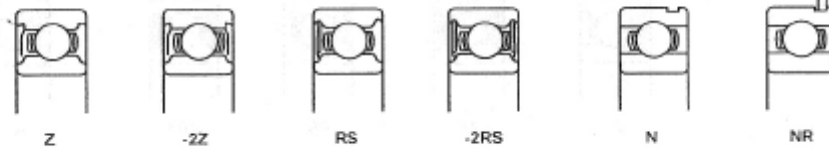
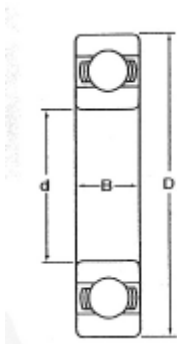


Primary dimensions			Basic bearing	Variants						Basic Load ratings		Limiting speeds			mass kg
d mm	D	B		Z	-2Z	RS	-2RS	N	NR	dynamic C _r N	static C _{0r}	grease rev/min	oil	RS/-2RS	
1³/₈	2 ¹ / ₂	7 ⁷ / ₁₆	KLNJ1 ³ / ₈							14 400	7 550	11 100	14 900		0,134
	2 ⁹ / ₁₆	9 ⁹ / ₁₆	XLJ1 ³ / ₈	*	*	*	*	*	*	16 600	8 500	11 200	15 000		0,194
	3	1 ¹¹ / ₁₆	LJ1 ³ / ₈	*	*	*	*	*	*	30 200	15 700	9 800	13 200	6 800	0,333
	3 ¹ / ₂	7 ⁷ / ₈	MJ1 ³ / ₈	*	*	*	*	*	*	45 300	23 900	8 800	11 900	6 200	0,608
1¹/₂	2 ⁵ / ₈	7 ⁷ / ₁₆	KLNJ1 ¹ / ₂							15 000	8 150	10 300	13 900		0,142
	2 ¹¹ / ₁₆	9 ⁹ / ₁₆	XLJ1 ¹ / ₂	*	*	*	*	*	*	14 300	7 500	10 200	13 800		0,202
	3 ¹ / ₄	3 ³ / ₄	LJ1 ¹ / ₂	*	*	*	*	*	*	34 800	17 800	9 000	12 200	6 300	0,418
	3 ³ / ₄	1 ⁵ / ₁₆	MJ1 ¹ / ₂	*	*	*	*	*	*	49 500	26 200	8 200	11 000	5 700	0,753
1⁵/₈	2 ⁷ / ₈	9 ⁹ / ₁₆	XLJ1 ⁵ / ₈							14 900	8 150	4 700	9 400		0,276
	3 ¹ / ₂	3 ³ / ₄	LJ1 ⁵ / ₈	*	*	*	*	*	*	38 700	20 000	8 400	11 300	5 900	0,481
	4	1 ⁵ / ₁₆	MJ1 ⁵ / ₈	*	*	*	*	*	*	55 000	29 900	7 700	10 300		0,857
1³/₄	3	9 ⁹ / ₁₆	XLJ1 ³ / ₄							21 800	12 200	9 100	12 300		0,238
	3 ³ / ₄	1 ¹³ / ₁₆	LJ1 ³ / ₄	*	*	*	*	*	*	22 300	7 800	10 600	5 500		0,594
	4 ¹ / ₄	1 ¹¹ / ₁₆	MJ1 ³ / ₄	*	*	*	*	*	*	59 500	32 700	7 100	9 600		1,06
1⁷/₈	3 ³ / ₁₆	5 ⁵ / ₈	XLJ1 ⁷ / ₈							22 700	13 100	8 300	11 200		0,297
	4	1 ¹³ / ₁₆	LJ1 ⁷ / ₈	*	*	*	*	*	*	50 500	27 800	7 200	9 800		0,708
	4 ¹ / ₂	1 ¹ / ₁₆	MJ1 ⁷ / ₈	*	*	*	*	*	*	69 000	38 700	6 600	8 900		1,22
2	3 ⁵ / ₁₆	5 ⁵ / ₈	XLJ2							22 700	13 100	8 300	11 200		0,317
	4	1 ¹³ / ₁₆	LJ2	*	*	*	*	*	*	50 500	27 800	7 200	9 800		0,667
	4 ¹ / ₂	1 ¹ / ₁₆	MJ2	*	*	*	*	*	*	69 000	38 700	6 600	8 900		1,17
2¹/₄	3 ⁹ / ₁₆	5 ⁵ / ₈	XLJ2 ¹ / ₄							29 400	17 000	7 600	10 300		0,338
	4 ¹ / ₂	7 ⁷ / ₈	LJ2 ¹ / ₄	*	*	*	*	*	*	60 000	32 700	6 400	8 600		0,885
	5	1 ¹ / ₄	MJ2 ¹ / ₄	*	*	*	*	*	*	85 000	48 500	5 900	8 000		1,60
2¹/₂	3 ⁷ / ₈	1 ¹¹ / ₁₆	XLJ2 ¹ / ₂							31 800	19 600	6 700	9 000		0,421
	5	1 ¹⁵ / ₁₆	LJ2 ¹ / ₂	*	*	*	*	*	*	65 500	36 800	5 700	7 700		1,22
	5 ¹ / ₂	1 ¹ / ₄	MJ2 ¹ / ₂	*	*	*	*	*	*	96 500	55 500	5 300	7 100		2,04
2³/₄	4 ¹ / ₄	1 ¹¹ / ₁₆	XLJ2 ³ / ₄							24 500	15 900	3 100	6 300		0,535
	5 ¹ / ₄	1 ¹⁵ / ₁₆	LJ2 ³ / ₄	*	*	*	*	*	*	70 000	40 900	5 300	7 200		1,33
	6 ¹ / ₄	1 ¹³ / ₈	MJ2 ³ / ₄	*	*	*	*	*	*	118 000	71 500	4 600	6 200		2,89
3	4 ¹ / ₂	3 ³ / ₄	XLJ3							41 100	26 100	5 800	7 800		0,753
	5 ³ / ₄	1 ¹¹ / ₁₆	LJ3	*	*	*	*	*	*	81 500	48 300	4 800	6 500		1,81
	7	1 ⁹ / ₁₆	MJ3	*	*	*	*	*	*	138 000	89 500	4 000	5 400		4,25
3¹/₄	4 ³ / ₄	3 ³ / ₄	XLJ3 ¹ / ₄							30 500	21 200	2 700	5 400		0,807
	6	1 ¹¹ / ₁₆	LJ3 ¹ / ₄	*	*	*	*	*	*	87 500	52 500	4 500	6 100		1,87
	7 ¹ / ₂	1 ⁹ / ₁₆	MJ3 ¹ / ₄	*	*	*	*	*	*	139 000	89 500	3 800	5 100		4,99

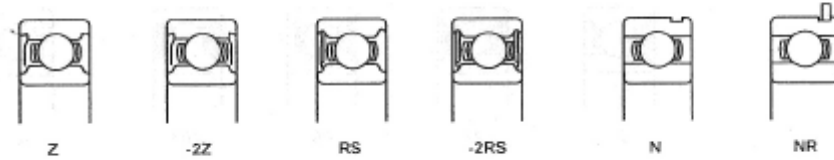
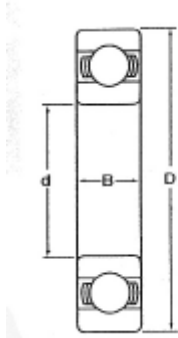
Single Row Radial
Ball Bearings (IMPERIAL)
Shaft Dia. 3³/₈ - 6 inch



**Townsend
Bearings**



Primary dimensions			Basic bearing	Variants						Basic Load ratings		Limiting speeds		mass kg	
d mm	D	B		Z	-ZZ	RS	-2RS	N	NR	dynamic C _r N	static C _{0r}	grease rev/min	oil		RS/-2RS N
3³/₈	7 ¹ / ₂	1 ⁹ / ₁₆	MJ3 ³ / ₈							139 000	89 500	3 800	5 100		4,90
3¹/₂	5	³ / ₄	XLJ3 ¹ / ₂							34 100	23 500	5 000	6 800		0,785
	6 ¹ / ₂	1 ¹ / ₈	LJ3 ¹ / ₂							100 000	60 500	4 200	5 600		2,33
	8 ¹ / ₈	1 ³ / ₄	MJ3 ¹ / ₂							169 000	120 000	3 400	4 600		6,53
3³/₄	5 ¹ / ₄	³ / ₄	XLJ3 ³ / ₄							40 600	28 800	4 700	6 400		0,844
	6 ³ / ₄	1 ¹ / ₈	LJ3 ³ / ₄							106 000	66 500	3 900	5 300		2,47
	8 ¹ / ₄	1 ³ / ₄	MJ3 ³ / ₄							169 000	120 000	3 400	4 600		6,53
4	5 ⁵ / ₈	⁷ / ₈	XLJ4E							41 400	30 300	2 200	4 400		1,15
	7 ¹ / ₄	1 ¹ / ₄	LJ4E							120 000	74 500	3 800	5 100		3,18
	8 ¹ / ₂	1 ³ / ₄	MJ4E							170 000	120 000	3 200	4 400		6,71
4¹/₄	6	⁷ / ₈	XLJ4 ¹ / ₄							48 400	36 500	4 100	5 500		1,13
	7 ¹ / ₂	1 ¹ / ₄	LJ4 ¹ / ₄							127 000	81 500	3 500	4 700		3,86
	8 ³ / ₄	1 ³ / ₄	MJ4 ¹ / ₄							171 000	120 000	3 100	4 200		8,16
4¹/₂	6 ¹ / ₄	⁷ / ₈	XLJ4 ¹ / ₂							55 500	40 200	3 900	5 200		1,14
	8	¹⁵ / ₁₆	LJ4 ¹ / ₂							147 000	98 500	3 300	4 400		4,67
	9 ³ / ₈	2	MJ4 ¹ / ₂							203 000	155 000	2 800	3 800		10,7
4³/₄	6 ¹ / ₂	⁷ / ₈	XLJ4 ³ / ₄							57 000	42 400	3 700	5 000		1,21
	8 ¹ / ₄	¹⁵ / ₁₆	LJ4 ³ / ₄							134 000	87 000	3 100	4 200		4,90
	10	2	MJ4 ³ / ₄							209 000	160 000	2 600	3 500		13,2
5	7	1	XLJ5E							68 000	50 000	3 400	4 600		1,68
	9	¹³ / ₈	LJ5E							154 000	107 000	2 700	3 700		6,35
	10	2	MJ5E							209 000	160 000	2 600	3 500		12,2
5¹/₄	7 ¹ / ₄	1	XLJ5 ¹ / ₄							51 000	39 600	1 600	3 200		2,10
5¹/₂	7 ¹ / ₂	1	XLJ5 ¹ / ₂							57 000	47 500	1 500	3 100		2,20
	9 ¹ / ₂	¹³ / ₈	LJ5 ¹ / ₂							153 000	107 000	2 500	3 400		6,85
	11	2	MJ5 ¹ / ₂							221 000	174 000	2 300	3 100		14,9
5³/₄	7 ³ / ₄	1	XLJ5 ³ / ₄							53 500	43 500	1 500	3 000		2,29
6	8	1	XLJ6E							54 500	45 500	1 400	2 800		2,37
	10 ¹ / ₂	¹⁹ / ₁₆	XL6E							180 000	134 000	2 300	3 100		9,48
	12	2 ¹ / ₄	MJ6E							259 000	218 000	2 100	2 800		19,5



Primary dimensions			Basic bearing	Variants						Basic Load ratings		Limiting speeds			mass kg
d mm	D	B		Z	-2Z	RS	-2RS	N	NR	dynamic C _r N	static C _{0r}	grease rev/min	oil	RS/-2RS	
6½	8¾	1⅛	XLJ6½							66 000	55 000	1 300	2 600		3,13
	11	1⅞ ₁₆	LJ6½							188 000	145 000	2 100	2 900		10,2
	13	2½	MJ6½							286 000	251 000	1 900	2 500		26,5
7	9½	1¼	XLJ73							77 500	65 000	1 200	2 300		4,23
	12	1¾	LJ7E							221 000	180 000	1 900	2 600		14,1
	13½	2½	MJ7E							306 000	278 000	1 700	2 400		27,5
7½	10	1¼	XLJ7½							79 000	68 000	1 100	2 200		4,50
	12½	1¾	LJ7½							231 000	195 000	1 800	2 400		14,5
	14½	2¾	MJ7½							340 000	322 000	1 600	2 200		35,4
8	10¾	1⅜	XLJ8E							94 500	82 500	1 000	2 000		5,81
	13	1¾	LJ8E							230 000	195 000	1 700	2 300		15,6
	15	2¾	MJ8E							366 000	358 000	1 500	2 000		36,5
8½	11½	1½	XLJ8½							108 000	95 500	900	1 800		7,44
	14	2	LJ8½							263 000	232 000	1 500	2 100		21,1
	16	3	MJ8½							396 000	401 000	1 400	1 800		47,2
9	12	1½	XLJ9E							110 000	98 000	850	1 700		7,85
	14½	2	LJ9E							275 000	251 000	1 500	2 000		22,0
	17	3	MJ9E												53,1
9½	12¾	1⅝	XLJ9½							127 000	115 000	800	1 600		9,53
	15⅛	2	LJ9½							287 000	271 000	1 400	1 800		22,7
10	13¾	1⅝	XLJ10E							130 000	120 000	750	1 500		9,89
	15¾	2	LJ10E							285 000	271 000	1 300	1 700		25,5
	18½	3¼	MJ10E												66,7
10½	14	1¾	XLJ10½								145 000	133 000	700	1 400	
	12,5	16⅝	2¼	LJ10½						338 000	339 000	1 200	1 600		32,5
11	14½	1¾	XLJ11E							148 000	139 000	650	1 300		13,3
	17½	2½	LJ11E							335 000	339 000	1 200	1 600		36,1
	20	3½	MJ11E												82,5
11½	15¼	1⅞	XLJ11½							169 000	160 000	600	1 200		15,9
	18	2⅞	LJ11½							371 000	390 000	1 100	1 400		38,5
12	16	2	XLJ12E							190 000	182 000	550	1 100		18,6
	18½	2⅝	LJ12E							388 000	412 000	1 000	1 400		44,5
	21½	3¾	MJ12E							557 000	654 000	900	1 200		99,8



**Townsend
Bearings**

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