

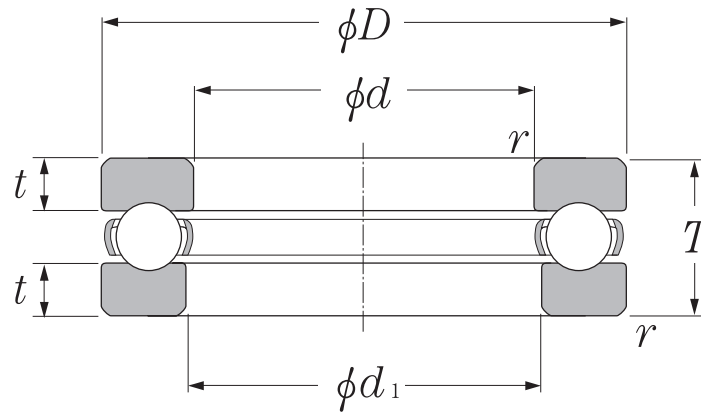
**d 10~45mm**

Boundary dimensions	Basic load ratings		Limiting speeds		Bearing numbers	Dimensions		Mass					
	dynamic	static	dynamic	static		grease	oil		$d_1$	$t$			
mm				kN		kgf		min <sup>-1</sup>		mm		kg	
$d$	$D$	$B$	$r_{s\ min}$	$C_r$	$C_{or}$	$C_r$	$C_{or}$					(approx.)	
<b>10</b>	24	9	0.3	10.0	14.0	1 020	1 420	6 700	9 500	<b>51100</b>	11	2.5	0.021
	26	11	0.6	12.7	17.1	1 290	1 740	5 800	8 300	<b>51200</b>	12	3.3	0.030
<b>12</b>	26	9	0.3	10.3	15.4	1 050	1 570	6 400	9 200	<b>51101</b>	13	2.5	0.023
	28	11	0.6	13.2	19.0	1 340	1 940	5 600	8 000	<b>51201</b>	14	3.3	0.034
<b>15</b>	28	9	0.3	10.5	16.8	1 070	1 710	6 200	8 800	<b>51102</b>	16	2.5	0.024
	32	12	0.6	16.6	24.8	1 690	2 530	5 000	7 100	<b>51202</b>	17	3.5	0.046
<b>17</b>	30	9	0.3	10.8	18.2	1 100	1 850	6 000	8 500	<b>51103</b>	18	2.5	0.026
	35	12	0.6	17.2	27.3	1 750	2 780	4 800	6 800	<b>51203</b>	19	3.5	0.054
<b>20</b>	35	10	0.3	14.2	24.7	1 450	2 520	5 200	7 500	<b>51104</b>	21	2.5	0.040
	40	14	0.6	22.3	37.5	2 270	3 850	4 100	5 900	<b>51204</b>	22	4.1	0.081
<b>25</b>	42	11	0.6	19.6	37.0	1 990	3 800	4 600	6 500	<b>51105</b>	26	3.0	0.060
	47	15	0.6	27.8	50.5	2 830	5 150	3 700	5 300	<b>51205</b>	27	4.3	0.111
	52	18	1.0	35.5	61.5	3 650	6 250	3 200	4 600	<b>51305</b>	27	5.0	0.176
<b>30</b>	47	11	0.6	20.4	42.0	2 080	4 300	4 300	6 200	<b>51106</b>	32	3.0	0.069
	52	16	0.6	29.3	58.0	2 990	5 950	3 400	4 900	<b>51206</b>	32	5.0	0.139
	60	21	1.0	43.0	78.5	4 350	8 000	2 800	3 900	<b>51306</b>	32	6.4	0.269
<b>35</b>	52	12	0.6	20.4	44.5	2 080	4 550	3 900	5 600	<b>51107</b>	37	3.5	0.085
	62	18	1.0	39.0	78.0	4 000	7 950	2 900	4 200	<b>51207</b>	37	5.2	0.215
	68	24	1.0	55.5	105.0	5 650	10 700	2 400	3 500	<b>51307</b>	37	7.2	0.383
<b>40</b>	60	13	0.6	26.9	63.0	2 740	6 400	3 500	5 000	<b>51108</b>	42	3.8	0.125
	68	19	1.0	47.0	98.5	4 800	10 000	2 700	3 900	<b>51208</b>	42	5.5	0.276
	78	26	1.0	69.0	135.0	7 050	13 700	2 200	3 100	<b>51308</b>	42	7.6	0.548
<b>45</b>	65	14	0.6	27.9	69.0	2 840	7 050	3 200	4 600	<b>51109</b>	47	4.0	0.148
	73	20	1.0	48.0	105.0	4 850	10 700	2 600	3 700	<b>51209</b>	47	6.0	0.317
	85	28	1.0	80.0	163.0	8 150	16 700	2 000	2 900	<b>51309</b>	47	8.3	0.684

Bearing with Brass cage available on request (with suffix M)

# Single Direction Thrust Ball Bearings

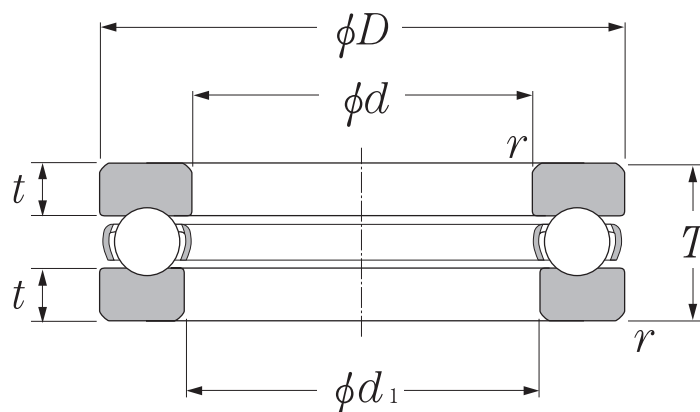
**KYK**



**d 50~90mm**

Boundary dimensions mm	Basic load ratings				Limiting speeds		Bearing numbers	Dimensions		Mass kg (approx.)			
	dynamic	static	dynamic	static	grease	oil		$d_1$	$t$				
$d$ $D$ $B$ $r_{s\ min}$	$C_r$	$C_{or}$	$C_r$	$C_{or}$	$\text{min}^{-1}$								
	kN		kgf										
<b>50</b>	70	14	0.6	28.8	75.5	2 930	7 700	3 100	4 500	<b>51110</b>	52	4.0	0.161
	78	22	1.0	48.5	111.0	4 950	11 400	2 400	3 400	<b>51210</b>	52	7.0	0.378
	95	31	1.1	96.5	202.0	9 850	20 600	1 800	2 600	<b>51310</b>	52	9.2	0.951
<b>55</b>	78	16	0.6	35.0	93.0	3 550	9 500	2 800	4 000	<b>51111</b>	57	5.0	0.226
	90	25	1.0	69.5	159.0	7 100	16 200	2 100	3 000	<b>51211</b>	57	7.5	0.608
	105	35	1.1	119.0	246.0	12 200	25 100	1 600	2 300	<b>51311</b>	57	10.2	1.290
<b>60</b>	85	17	1.0	41.5	113.0	4 200	11 500	2 600	3 700	<b>51112</b>	62	5.0	0.296
	95	26	1.0	73.5	179.0	7 500	18 200	2 000	2 800	<b>51212</b>	62	8.0	0.676
	110	35	1.1	123.0	267.0	12 600	27 200	1 600	2 300	<b>51312</b>	62	10.2	1.370
<b>65</b>	90	18	1.0	41.5	117.0	4 250	12 000	2 400	3 500	<b>51113</b>	67	5.5	0.338
	100	27	1.0	75.0	189.0	7 650	19 200	1 900	2 700	<b>51213</b>	67	8.4	0.767
	115	36	1.1	128.0	287.0	13 000	29 300	1 500	2 200	<b>51313</b>	67	10.7	1.510
<b>70</b>	95	18	1.0	43.0	127.0	4 400	12 900	2 400	3 400	<b>51114</b>	72	5.5	0.356
	105	27	1.0	76.0	199.0	7 750	20 200	1 800	2 600	<b>51214</b>	72	8.4	0.793
	125	40	1.1	148.0	340.0	15 100	34 500	1 400	2 000	<b>51314</b>	72	12.0	2.010
<b>75</b>	100	19	1.0	44.5	136.0	4 550	13 900	2 200	3 200	<b>51115</b>	77	6.0	0.399
	110	27	1.0	77.5	209.0	7 900	21 300	1 800	2 600	<b>51215</b>	77	8.4	0.874
	135	44	1.5	171.0	395.0	17 400	40 500	1 300	1 800	<b>51315</b>	77	13.4	2.610
<b>80</b>	105	19	1.0	44.5	141.0	4 550	14 400	2 200	3 100	<b>51116</b>	82	6.0	0.422
	115	28	1.0	78.5	218.0	8 000	22 300	1 700	2 400	<b>51216</b>	82	8.9	0.916
	140	44	1.5	176.0	425.0	18 000	43 000	1 200	1 800	<b>51316</b>	82	13.4	2.720
<b>85</b>	110	19	1.0	46.0	150.0	4 700	15 300	2 100	3 000	<b>51117</b>	87	6.0	0.444
	125	31	1.0	95.5	264.0	9 700	26 900	1 600	2 200	<b>51217</b>	88	9.8	1.250
	150	49	1.5	201.0	490.0	20 500	50 000	1 100	1 600	<b>51317</b>	88	15.0	3.520
<b>90</b>	120	22	1.0	59.5	190.0	6 100	19 400	1 900	2 700	<b>51118</b>	92	7.0	0.687
	135	35	1.1	117.0	325.0	11 900	33 000	1 400	2 000	<b>51218</b>	93	11.2	1.700
	155	50	1.5	198.0	490.0	20 200	50 000	1 100	1 600	<b>51318</b>	93	15.5	3.740

Bearing with Brass cage available on request (with suffix M)



**d 100~150mm**

d	Boundary dimensions			Basic load ratings				Limiting speeds		Bearing numbers	Dimensions		Mass kg (approx.)
	D	B	$r_{s\ min}$	dynamic	static	dynamic	static	min <sup>-1</sup>			d <sub>1</sub>	t	
	mm			kN		kgf		grease	oil		mm		
<b>100</b>	135	25	1.0	85.0	268.0	8 700	27 300	1 700	2 400	<b>51120</b>	102	7.5	0.987
	150	38	1.1	147.0	410.0	14 900	42 000	1 300	1 800	<b>51220</b>	103	11.7	2.290
	170	55	1.5	237.0	595.0	24 100	60 500	990	1 400	<b>51320</b>	103	17.3	4.880
<b>110</b>	145	25	1.0	87.0	288.0	8 900	29 400	1 600	2 300	<b>51122</b>	112	7.5	1.070
	160	38	1.1	153.0	450.0	15 600	46 000	1 200	1 800	<b>51222</b>	113	11.7	2.460
	190	63	2.0	267.0	705.0	27 300	72 000	870	1 200	<b>51322</b>	113	20.0	7.670
<b>120</b>	155	25	1.0	89.0	310.0	9 100	31 500	1 500	2 200	<b>51124</b>	122	7.5	1.110
	170	39	1.1	154.0	470.0	15 700	48 000	1 200	1 700	<b>51224</b>	123	12.2	2.710
	210	70	2.1	296.0	805.0	30 000	82 500	780	1 100	<b>51324</b>	123	22.3	10.800
<b>130</b>	170	30	1.0	104.0	350.0	10 600	36 000	1 300	1 900	<b>51126</b>	132	9.0	1.730
	190	45	1.5	191.0	565.0	19 400	57 500	1 000	1 500	<b>51226</b>	133	13.9	4.220
	225	75	2.1	330.0	960.0	33 500	97 500	720	1 000	<b>51326</b>	134	24.2	12.700
<b>140</b>	180	31	1.0	107.0	375.0	10 900	38 500	1 300	1 800	<b>51128</b>	142	9.5	1.900
	200	46	1.5	193.0	595.0	19 700	60 500	980	1 400	<b>51228</b>	143	14.4	4.770
	240	80	2.1	350.0	1 050.0	35 500	107 000	670	960	<b>51328</b>	144	26.0	15.300
<b>150</b>	190	31	1.0	109.0	400.0	11 100	41 000	1 200	1 800	<b>51130</b>	152	10.0	2.000
	215	50	1.5	220.0	685.0	22 400	70 000	900	1 300	<b>51230</b>	153	15.8	5.870
	250	80	2.1	360.0	1 130.0	37 000	115 000	660	940	<b>51330</b>	154	26.0	16.100

Bearing with Brass cage available on request (with suffix M)