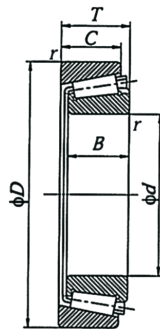
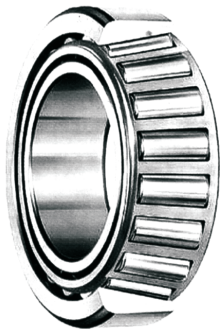


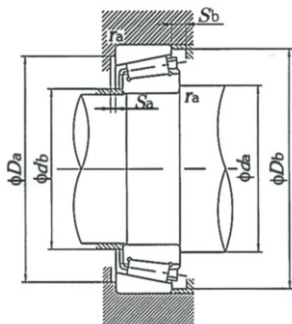
# Tapered roller bearings

$d$  15 ~ (40) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Bearing No.
d	D	T	B	C	r		Cr	Cor	Grease lub.	Oil lub.	
					min.	min.					
15	35	11.75	11	10	0.6	0.6	14.8	9.2	11000	14000	<b>30202</b>
	42	14.25	13	11	1	1	21.8	13.8	9000	12000	<b>30302</b>
17	40	13.25	12	11	1	1	19.8	13.2	9000	12000	<b>30203</b>
	40	17.25	16	14	1	1	22.7	17.9	9000	12000	<b>32203</b>
	47	15.25	14	12	1	1	26.8	17.2	8500	11000	<b>30303</b>
	47	20.25	19	16	1	1	33.5	23	8500	11000	<b>32303</b>
20	47	15.25	14	12	1	1	26.8	18.2	8000	10000	<b>30204</b>
	47	19.25	18	15	1	1	31.5	22.8	8000	10000	<b>32204</b>
	52	16.25	15	13	1.5	1.5	31.5	20.8	7500	9500	<b>30304</b>
	52	22.25	21	18	1.5	1.5	40.8	28.8	7500	9500	<b>32304</b>
25	52	16.25	15	13	1	1	32.2	23	7000	9000	<b>30205</b>
	52	19.25	18	15	1	1	38.5	29.5	7000	9000	<b>32205</b>
	62	18.25	17	15	1.5	1.5	44.8	30	6300	8000	<b>30305</b>
	62	25.25	24	20	1.5	1.5	58.5	42.5	6300	8000	<b>32305</b>
30	55	17.25	16	14	1	1	23.2	19.8	6300	8000	<b>32006</b>
	62	17.25	16	14	1	1	41.2	29.5	6000	7500	<b>30206</b>
	62	21.25	20	17	1	1	49.2	37.2	6000	7500	<b>32206</b>
	72	20.75	19	16	1.5	1.5	55.8	38.5	5600	7000	<b>30306</b>
	72	28.75	27	23	1.5	1.5	77.5	58.8	5600	7000	<b>32306</b>
35	62	18	17	15	1	1	28.2	26.2	5600	7000	<b>32007</b>
	72	18.25	17	15	1.5	1.5	51.5	37.2	5300	6700	<b>30207</b>
	72	24.25	23	19	1.5	1.5	67.5	52.5	5300	6700	<b>32207</b>
	80	22.75	21	18	2	1.5	71.2	50.2	5000	6300	<b>30307</b>
	80	32.75	31	25	2	1.5	93.8	72.2	5000	6300	<b>32307</b>
40	62	15	15	12	0.6	0.6	17.8	15.8	5600	7000	<b>32908</b>
	80	19.75	18	16	1.5	1.5	59.8	42.8	5000	6300	<b>30208</b>
	80	24.75	23	19	1.5	1.5	74.2	56.8	5000	6300	<b>32208</b>
	90	25.25	23	20	2	1.5	86.2	63.8	4500	5600	<b>30308</b>

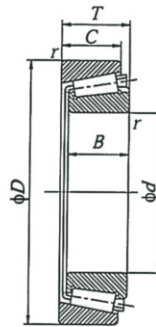
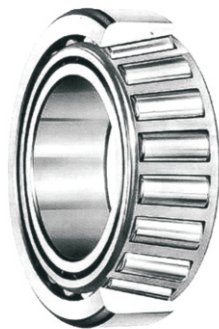
# Tapered roller bearings



Mounting dimensions (mm)						Mass (kg)
da min.	db max.	Da max.	Db min.	Sa min.	Sb max.	
23	19	30	33	2	1.5	0.056
24	22	36	38.5	2	3	0.096
26	23	34	37.5	2	2	0.13
26	22	34	37.5	2	3	0.115
26	24	41	43	2	3	0.13
24	23	41	43	3	4	0.174
29	27	41	44	2	3	0.124
29	25	41	45	2	4	0.158
31	27	44	47.5	2	3	0.168
33	26	43	48	3	4	0.24
34	31	46	48.5	2	3	0.159
34	30	46	49	2	4	0.174
36	34	54	57	2	3	0.25
38	32	53	59	3	6	0.365
39	35	49	53	3	4	0.16
39	37	56	58	2	3	0.245
39	35	56	59	2	5	0.285
41	40	63	66	3	4.5	0.408
43	38	63	66	3	5.5	0.575
44	40	56	60	4	4	0.21
46	43	63	67	3	3	0.345
46	42	63	68.5	3	6	0.488
47	45	71	74	3	4.5	0.513
49	43	71	74	3	7.5	0.683
48	44	57	59	3	3	0.14
51	48	71	75	3	3.5	0.411
51	48	71	75	3	5.5	0.559
52	52	81	82	3	5	0.761

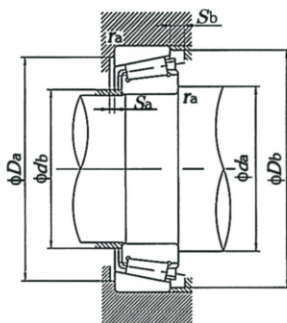
# Tapered roller bearings

$d$  (40) ~ (65) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Bearing No.
d	D	T	B	C	r		Cr	Cor	Grease lub.	Oil lub.	
					min.	min.					
40	90	35.25	33	27	2	1.5	110	87.8	4500	5600	<b>32308</b>
45	68	15	15	12	0.6	0.6	18.5	18.2	5300	6700	<b>32909</b>
	85	20.75	19	16	1.5	1.5	64.2	47.8	4500	5600	<b>30209</b>
	85	24.75	23	19	1.5	1.5	79.5	62.8	4500	5600	<b>32209</b>
	100	27.25	25	22	2	1.5	102	76.2	4000	5000	<b>30309</b>
	100	27.25	25	18	2	1.5	89.5	65	4000	5000	<b>31309</b>
	100	38.25	36	30	2	1.5	138	111.8	4000	5000	<b>32309</b>
50	72	15	15	12	0.6	0.6	18.5	18.2	5000	6300	<b>32910</b>
	80	20	19	16	1	1	38.2	36.8	4500	5600	<b>32010</b>
	90	21.75	20	17	1.5	1.5	72.2	55.2	4300	5300	<b>30210</b>
	90	24.75	23	19	1.5	1.5	84.8	68	4300	5300	<b>32210</b>
	110	29.25	27	23	2.5	2	122	92.5	3800	4800	<b>30310</b>
	110	29.25	27	19	2.5	2	102	73.8	3800	4800	<b>31310</b>
	110	42.25	40	33	2.5	2	168	140	3800	4800	<b>32310</b>
55	90	23	22	19	1.5	1.5	53.2	51.8	4000	5000	<b>32011</b>
	100	22.75	21	18	2	1.5	86.5	65.5	3800	4800	<b>30211</b>
	100	26.75	25	21	2	1.5	102	81.5	3800	4800	<b>32211</b>
	120	31.5	29	25	2.5	2	145	112	3400	4300	<b>30311</b>
	120	31.5	29	21	2.5	2	122	90.5	3400	4300	<b>31311</b>
	120	45.5	43	35	2.5	2	192	162	3400	4300	<b>32311</b>
60	95	23	22	19	1.5	1.5	54	54.5	3800	4800	<b>32012</b>
	110	23.75	22	19	2	1.5	97.8	74.5	3600	4500	<b>30212</b>
	110	29.75	28	24	2	1.5	125	102	3600	4500	<b>32212</b>
	130	33.5	31	26	3	2.5	162	125	3200	4000	<b>30312</b>
	130	33.5	31	22	3	2.5	138	102	3200	4000	<b>31312</b>
	130	48.5	46	37	3	2.5	215	180	3200	4000	<b>32312</b>
65	100	23	22	19	1.5	1.5	55.8	57.5	3600	4500	<b>32013</b>
	120	24.75	23	20	1.2	1.5	112	86.2	3200	4000	<b>30213</b>

## Tapered roller bearings

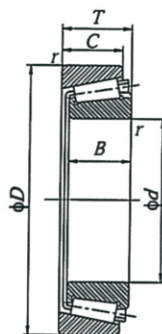


Mounting dimensions (mm)						Mass (kg)
da min.	db max.	Da max.	Db min.	Sa min.	Sb max.	
54	50	81	82	3	10	1.045
53	50	63	64	3	3	—
56	53	76	80	3	4.5	0.506
56	53	76	81	3	5.5	0.577
57	58	91	93	3	5	1.066
57	54	91	95	4	9	0.989
59	56	91	93	3	8	1.48
58	54	67	69	3	3	0.7
59	56	74	77	4	4.5	0.31
61	58	81	85	3	4.5	0.592
61	57	81	86	3	5.5	0.618
65	65	100	102	3	6	1.25
62	60	100	104	4	10	1.254
68	62	100	102	3	9	1.885
66	62	81	86	4	5.5	0.53
67	64	91	94	4	4.5	0.739
67	63	91	95	4	5.5	0.915
70	71	110	111	4	6.5	1.528
68	65	110	113	4	10.5	1.528
73	67	110	111	4	10.5	2.39
71	66	86	91	4	5.5	0.56
72	69	101	103	4	4.5	0.934
72	68	101	104	4	5.5	1.197
78	77	118	120	4	7.5	1.94
74	72	118	123	5	11.5	1.896
81	74	118	120	4	11.5	2.88
76	71	91	97	4	5.5	0.63
77	78	111	113	4	4.5	1.132



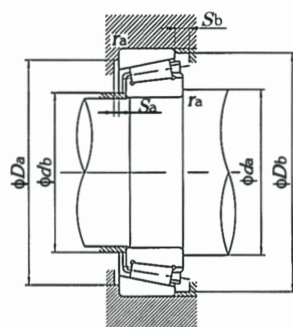
## Tapered roller bearings

$d$  (65) ~ 85 mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Bearing No.
d	D	T	B	C	r		Cr	Cor	Grease lub.	Oil lub.	
					min.	min.					
65	120	32.75	31	27	2	1.5	152	125	3200	4000	32213
	140	36	33	28	3	2.5	185	142	2800	3600	30313
	140	36	33	23	3	2.5	155	118	2800	3600	31313
	140	51	48	39	3	2.5	245	208	2800	3600	32313
70	110	25	24	20	1.5	1.5	69.8	71.8	3400	4300	32014
	125	26.25	24	21	2	1.5	125	97.5	3000	3800	30214
	125	33.25	31	27	2	1.5	158	135	3000	3800	32214
	150	38	35	30	3	2.5	208	162	2600	3400	30314
	150	38	35	25	3	2.5	178	135	2600	3400	31314
	150	54	51	42	3	2.5	285	242	2600	3400	32314
75	115	25	24	20	1.5	1.5	71.2	74.8	3200	4000	32015
	130	27.25	22	22	2	1.5	130	105	2800	3600	30215
	130	33.25	31	27	2	1.5	160	135	2800	3600	32215
	160	40	37	31	3	2.5	238	188	2400	3200	30315
	160	40	37	26	3	2.5	170	150	2400	3200	31315
	160	58	55	45	3	2.5	328	288	2400	3200	32315
80	125	29	27	23	1.5	1.5	86.5	90.8	3000	3800	32016
	140	28.25	26	22	2.5	2	150.8	120	2600	3400	30216
	140	35.25	33	28	2.5	2	188	158	2600	3400	32216
	170	42.5	39	33	3	2.5	262	208	2200	3000	30316
	170	42.5	39	27	3	2.5	215	165	2200	3000	31316
	170	61.5	58	48	3	2.5	365	322	2200	3000	32316
85	130	29	27	23	1.5	1.5	88.5	94.2	2800	3600	32017
	150	30.5	28	24	2.5	2	168	135	2400	3200	30217
	150	38.5	36	30	2.5	2	215	185	2400	3200	32217
	180	44.5	41	34	4	3	288	228	2000	2800	30317
	180	44.5	41	28	4	3	238	182	2000	2800	31317
	180	63.5	60	49	4	3	398	352	2000	2800	32317

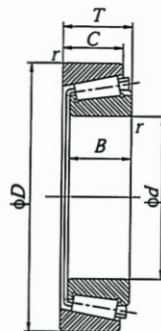
# Tapered roller bearings



Mounting dimensions (mm)						Mass (kg)
da min.	db max.	Da max.	Db min.	Sa min.	Sb max.	
77	75	111	115	4	5.5	1.58
83	83	128	130	4	8	2.629
80	77	128	132	5	13	2.406
86	80	128	130	4	12	3.609
81	77	104	105	5	6	0.85
82	81	116	118	4	5	1.296
82	80	116	119	4	6	1.62
88	89	138	140	4	8	3.17
85	82	138	141	5	13	3.032
91	86	138	140	4	12	4.43
86	82	106	110	5	6	0.88
87	85	121	124	4	5	1.384
87	84	121	125	4	6	1.765
93	95	148	149	4	9	3.542
91	87	148	151	6	14	3.4
96	91	148	149	4	13	5.316
91	89	116	120	6	7	1.18
95	91	130	132	4	6	1.65
95	90	130	134	4	7	2.162
98	102	158	159	4	9.5	4.486
97	92	158	159	6	15.5	4.3
101	98	158	159	4	13.5	6.39
96	94	121	125	6	7	1.25
100	97	140	141	5	6.5	2.06
100	96	140	142	5	8.5	2.67
106	108	166	167	5	10.5	5.305
103	99	166	169	6	16.5	4.975
110	104	166	167	5	14.5	6.81

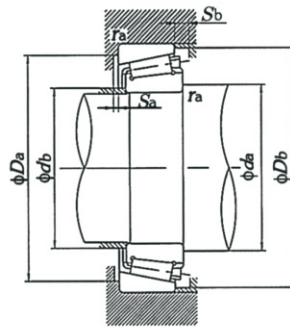
## Tapered roller bearings

$d$  90 ~ 110 mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Bearing No.
d	D	T	B	C	r		Cr	Cor	Grease lub.	Oil lub.	
					min.	min.					
90	140	32	30	26	2	1.5	102	108	2600	3400	<b>32018</b>
	160	32.5	30	26	2.5	2	188	152	2200	3000	<b>30218</b>
	160	42.5	40	34	2.5	2	258	225	2200	3000	<b>32218</b>
	190	46.5	43	36	4	3	322	260	1900	2600	<b>30318</b>
	190	46.5	43	30	4	3	265	205	1900	2600	<b>31318</b>
	190	67.5	64	53	4	3	452	405	1900	2600	<b>32318</b>
95	145	32	30	26	2	1.5	102	108	2400	3200	<b>32019</b>
	170	34.5	32	27	3	2.5	215	175	2000	2800	<b>30219</b>
	170	45.5	43	37	3	2.5	285	255	2000	2800	<b>32219</b>
	200	49.5	45	38	4	3	348	282	1800	2400	<b>30319</b>
	200	49.5	45	32	4	3	292	230	1800	2400	<b>31319</b>
	200	71.5	67	55	4	3	488	438	1800	2400	<b>32319</b>
100	150	32	30	26	2	1.5	105	115	2200	3000	<b>32020</b>
	180	37	34	29	3	2.5	240	198	1900	2600	<b>30220</b>
	180	49	46	39	3	2.5	322	292	1900	2600	<b>32220</b>
	215	51.5	47	39	4	3	382	310	1600	2000	<b>30320</b>
	215	56.5	51	35	4	3	350	280	1600	2000	<b>31320</b>
	215	77.5	73	60	4	3	568	515	1600	2000	<b>32320</b>
105	160	35	33	28	2.5	2	135	150	2000	2800	<b>32021</b>
	190	39	36	30	3	2.5	270	225	1800	2400	<b>30221</b>
	190	53	50	43	3	2.5	362	330	1800	2400	<b>32221</b>
	225	53.5	49	41	4	3	408	332	1500	1900	<b>30321</b>
	225	81.5	77	63	4	3	612	560	1500	1900	<b>32321</b>
110	170	38	36	31	2.5	2	152	168	1900	2600	<b>32022</b>
	200	41	38	32	3	2.5	298	252	1700	2200	<b>30222</b>
	200	56	53	46	3	2.5	408	378	1700	2200	<b>32222</b>
	240	54.5	50	42	4	3	445	362	1400	1800	<b>30322</b>
	240	84.5	80	65	4	3	685	632	1400	1800	<b>32322</b>

# Tapered roller bearings

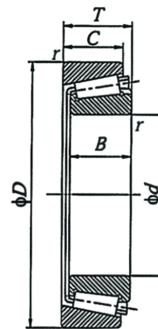


Mounting dimensions (mm)						Mass (kg)
da min.	db max.	Da max.	Db min.	Sa min.	Sb max.	
102	99	131	134	6	8	1 7
105	103	150	150	5	6.5	2.558
105	102	150	152	5	8.5	3.265
111	115	176	177	5	10.5	6.144
109	104	176	179	5	16.5	6.428
115	111	176	177	5	14.5	8.568
107	104	136	140	6	8	1 7
113	110	158	159	5	7.5	3.269
113	108	158	161	5	8.5	4.216
116	119	186	184	5	11.5	7 13
114	109	186	187	6	11.5	6.8
120	114	186	184	5	16.5	10.13
112	109	141	144	6	8	1 79
118	116	168	168	5	8	3.976
118	115	168	171	5	10	5.213
121	128	201	196	5	12.5	8.69
121	114	201	202	7	21.5	8.6
125	125	201	200	5	17.5	12.96
120	115	150	154	6	9	2.5
123	123	178	177	6	9	4.936
123	120	178	180	5	10	6.495
126	134	211	206	6	12.5	9.912
130	129	211	209	6	18.5	14.458
125	121	160	163	7	9	3.1
128	129	188	187	6	9	5.422
128	127	188	190	5	10	7.86
131	142	226	218	6	12.5	11.45
135	135	226	218	6	19.5	18.78



## Tapered roller bearings

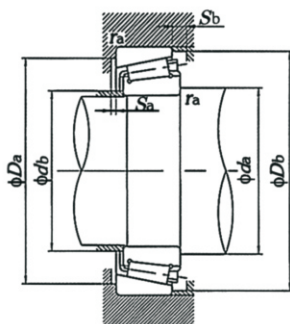
$d$  120 ~ 200 mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Bearing No.
d	D	T	B	C	r		Cr	Cor	Grease lub.	Oil lub.	
					min.	min.					
120	180	38	36	31	2.5	2	165	188	1700	2200	32024
	215	43.5	40	34	3	2.5	318	272	1500	1900	30224
	215	61.5	58	50	3	2.5	452	428	1500	1900	32224
	260	59.5	55	46	4	3	530	440	1300	1700	30324
	260	90.5	86	69	4	3	782	728	1300	1700	32324
130	200	45	42	36	2.5	2	202	232	1600	2000	32026
	230	43.75	40	34	4	3	345	292	1400	1800	30226
	230	67.75	64	54	4	3	522	502	1400	1800	32226
	280	63.75	58	49	5	4	605	505	1100	1500	30326
	280	98.75	93	78	5	4	830	795	1200	1600	32326
140	210	45	42	36	2.5	2	215	252	1400	1800	32028
	250	45.75	42	36	4	3	388	332	1200	1600	30228
	250	71.75	68	58	4	3	610	592	1200	1600	32228
	300	67.75	62	53	5	4	688	582	1000	1400	30328
	300	107.75	102	85	5	4	985	863	1100	1500	32328
150	225	48	45	38	3	2.5	245	292	1300	1700	32030
	270	49	45	38	4	3	425	362	1100	1500	30230
	270	77	73	60	4	3	682	665	1100	1500	32230
	320	72	65	55	5	4	762	648	950	1300	30330
	320	114	108	90	5	4	1120	1000	1000	1400	32330
160	290	52	48	40	4	3	458	388	1000	1400	30232
	290	84	80	67	4	3	812	808	1000	1400	32232
	340	75	68	58	5	4	835	712	900	1200	30332
170	310	57	52	43	5	4	558	485	1000	1300	30234
	310	91	86	71	5	4	915	918	1000	1300	32234
180	320	57	52	43	5	4	575	508	900	1200	30236
	320	91	86	71	5	4	942	962	900	1200	32236
190	340	60	55	46	5	4	658	578	850	1100	30238
	340	97	92	75	5	4	1020	1020	850	1100	32238
200	360	64	58	48	5	4	728	645	800	1000	30240
	360	104	98	82	5	4	1250	1250	800	1000	32240



## Tapered roller bearings



Mounting dimensions (mm)						Mass (kg)
da min.	db max.	Da max.	Db min.	Sa min.	Sb max.	
135	136	170	173	7	7	3.1
138	141	203	201	6	9.5	6.125
138	137	203	204	6	11.5	9.169
141	153	246	236	6	13.5	13.7
145	147	246	236	6	21.5	21.7
145	149	190	190	8	9	4.46
151	155	216	218	7	9.5	7.24
151	149	216	218	7	13.5	11.37
157	168	262	255	8	14.5	17.1
162	165	262	263	8	20.5	26.6
155	158	200	200	8	9	5.21
161	168	236	234	7	9.5	8.892
161	163	236	238	9	13.5	14.68
167	180	282	272	9	14.5	21.7
172	177	282	281	9	22.5	33.9
168	166	213	216	8	10	6.2
171	176	256	251	7	11	10.3
171	177	256	254	8	17	17.4
177	193	302	292	8	17	27.4
182	191	302	297	8	24	41.4
181	192	276	272	8	12	12.9
181	190	276	275	10	17	21.1
187	205	322	311	10	17	33.5
197	203	292	288	8	14	19
197	201	292	293	10	20	28.5
207	213	302	297	9	14	18.1
207	211	302	305	10	20	28.2
217	228	322	316	9	14	21.7
217	223	322	323	11	22	35.7
227	242	342	334	10	16	25.7
227	233	342	338	11	22	44.7