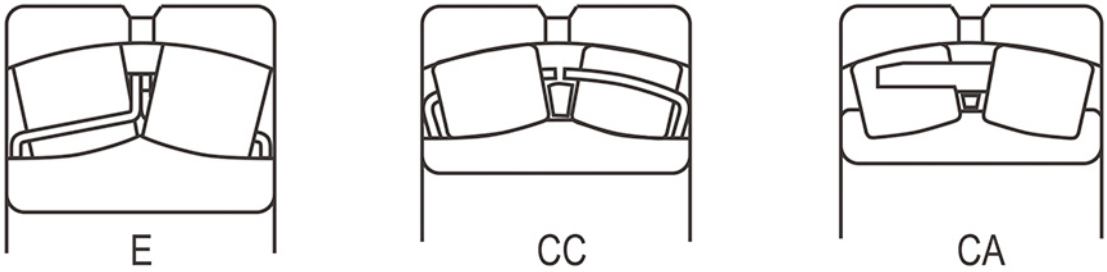
Spherical Roller Bearing

Features of spherical roller bearings

Spherical roller bearings are double row, self-retaining units comprising solid outer rings with a concave raceway, solid inner rings and barrel rollers with cages. The inner rings with cylindrical or tapered bores.
It has two rows of rollers, a common sphered outer ring raceway and two inner ring raceways inclined at an angle to the bearing axis. The centre point of the sphere in the outer ring raceway is at the bearing axis. Therefore, the bearings are self-aligning and insensitive to misalignment of the shaft relative to the housing, which can be caused, for example, by shaft deflection. They are designed to accommodate heavy radial loads, as well as heavy axial loads in both directions.

Spherial roller bearings according to cage different types can be classified as follows

- Spherical Roller Bearing CC/W33 series
- Spherical Roller Bearing CA/W33 series
- Spherical Roller Bearing F3 series
- Spherical Roller Bearing MB cage series
- Spherical Roller Bearing E Strength series



Spherical Roller Bearings knowledge expansion

1.Internal Structure and Retainer Material Variation

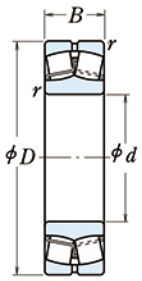
CC: Symmetrical roller, Stamped Steel retainer
CA: Symmetrical roller, one-pice brass cage
CTN1: Symmetrical roller, nylon cage
E: Third generation design. improved stress distribution; offer much longer service life than normal designs
Q: Bronze cage
MB: Symmetrical roller,Two-pice brass cage
EM: Symmetrical roller, Special alloy Integral cage.

2.External form change

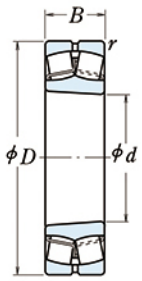
K: Tapered bore bearing,taper is 1:12
K30: Tapered bore bearing,taper is 1:30
N: A snap ring groove on the outer ring
W33: There are three lubrication groove and three lubrication holes in the outer ring

SPHERICAL ROLLER BEARINGS

Bore Diameter 20 – 55 mm



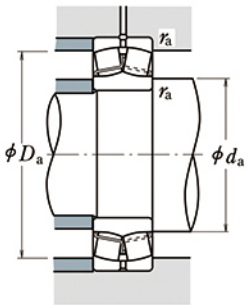
Cylindrical Bore



Tapered Bore

Without an Oil Groove or Holes

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
20	52	15	1.1	29300	26900	2980	2740	6300	8200
25	52	18	1	37500	37000	3850	3800	7100	9000
	62	17	1.1	43000	40500	4350	4150	5300	6700
30	62	20	1	50000	50000	5100	5100	6000	7500
	72	19	1.1	55000	54000	5600	5500	4500	6000
35	72	23	1.1	69000	71000	7050	7200	5300	6700
	80	21	1.5	71500	76000	7250	7750	4000	5300
40	80	23	1.1	113000	99500	11500	10100	6700	8500
	90	23	1.5	118000	111000	12000	11300	6000	7500
	90	33	1.5	170000	153000	17300	15600	5300	6700
45	85	23	1.1	118000	111000	12000	11300	6000	7500
	100	25	1.5	149000	144000	15200	14600	5000	6300
	100	36	1.5	207000	195000	21100	19900	4500	5600
50	90	23	1.1	124000	119000	12600	12100	5600	7100
	110	27	2	178000	174000	18100	17800	4500	5600
	110	40	2	246000	234000	25100	23900	4300	5300
55	100	25	1.5	149000	144000	15200	14600	5300	6700
	120	29	2	178000	174000	18100	17800	4500	5600
	120	43	2	292000	292000	29800	29800	3800	4800



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leqq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

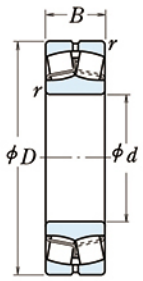
$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

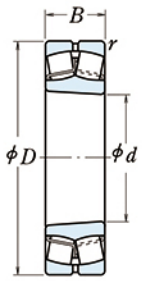
Bearing Numbers		Abutment and Fillet Dimensions (mm)					Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a		D_a		r_a					(kg)
		min.	max.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
21304CC	**21304CCK**	27	28	45	42	1	0.31	3.2	2.1	2.1	0.17
22205CC	**22205CCK**	31	31	46	45	1	0.35	2.9	1.9	1.9	0.17
21305CC	**21305CCK**	32	34	55	51	1	0.29	3.4	2.3	2.3	0.26
22206CC	**22206CCK**	36	37	56	54	1	0.33	3.1	2.1	2	0.27
21306CC	**21306CCK**	37	40	65	59	1	0.28	3.6	2.4	2.3	0.39
22207CC	**22207CCK**	42	43	65	63	1	0.32	3.1	2.1	2	0.42
21307CC	**21307CCK**	44	47	71	67	1.5	0.28	3.6	2.4	2.4	0.53
22208CC	**22208CCK**	47	49	73	70	1	0.28	3.6	2.4	2.4	0.5
21308CC	**21308CCK**	49	54	81	75	1.5	0.25	3.9	2.7	2.6	0.73
22308CC	**22308CCK**	49	52	81	77	1.5	0.35	2.8	1.9	1.9	0.98
22209CC	**22209CCK**	52	54	78	75	1	0.25	3.9	2.7	2.6	0.55
21309CC	**21309CCK**	54	65	91	89	1.5	0.23	4.3	2.9	2.8	0.96
22309CC	**22309CCK**	54	59	91	86	1.5	0.34	2.9	2	1.9	1.34
22210CC	**22210CCK**	57	60	83	81	1	0.24	4.3	2.9	2.8	0.61
21310CC	**21310CCK**	60	72	100	98	2	0.23	4.4	3	2.9	1.21
22310CC	**22310CCK**	60	64	100	93	2	0.35	2.8	1.9	1.9	1.78
22211CC	**22211CCK**	64	65	91	89	1.5	0.23	4.3	2.9	2.8	0.81
21311CC	**21311CCK**	65	72	110	98	2	0.23	4.4	3	2.9	1.58
22311CC	**22311CCK**	65	73	110	103	2	0.34	2.9	2	1.9	2.3

SPHERICAL ROLLER BEARINGS

Bore Diameter 60 – 85 mm



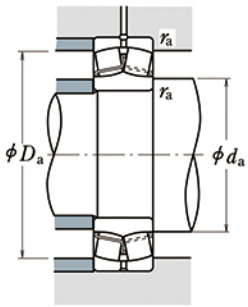
Cylindrical Bore



Tapered Bore

Without an Oil Groove or Holes

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
60	95	26	1.1	98500	141000	10000	14400	3600	4500
	110	28	1.5	178000	174000	18100	17800	4800	6000
	130	31	2.1	238000	244000	24200	24900	3800	4800
	130	46	2.1	340000	340000	34500	35000	3600	4500
65	120	31	1.5	221000	230000	22500	23500	4300	5300
	140	33	2.1	264000	275000	27000	28000	3600	4500
	140	48	2.1	375000	380000	38000	38500	3200	4000
70	125	31	1.5	225000	232000	22900	23600	4000	5300
	150	35	2.1	310000	325000	32000	33500	3200	4000
	150	51	2.1	425000	435000	43500	44000	3000	3800
75	130	31	1.5	238000	244000	24200	24900	4000	5000
	160	37	2.1	310000	325000	32000	33500	3200	4000
	160	55	2.1	485000	505000	49500	51500	2800	3600
80	140	33	2	264000	275000	27000	28000	3600	4500
	170	39	2.1	355000	375000	36000	38000	3000	3800
	170	58	2.1	540000	565000	55000	58000	2600	3400
85	150	36	2	310000	325000	32000	33500	3400	4300
	180	41	3	360000	395000	37000	40000	3000	4000
	180	60	3	600000	630000	61000	64000	2400	3200



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

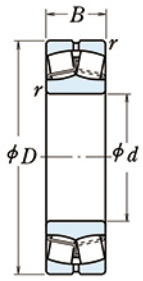
$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

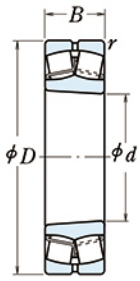
Bearing Numbers		Abutment and Fillet Dimensions (mm)					Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a		D_a		r_a					(kg)
		min.	max.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
23012CC	**23012CCK**	67	68	88	85	1	0.26	3.9	2.6	2.5	0.68
22212CC	**22212CCK**	69	72	101	98	1.5	0.23	4.4	3	2.9	1.1
21312CC	**21312CCK**	72	87	118	117	2	0.22	4.5	3	3	1.98
22312CC	**22312CCK**	72	79	118	111	2	0.34	3	2	1.9	2.89
22213CC	**22213CCK**	74	80	111	107	1.5	0.24	4.2	2.8	2.7	1.51
21313CC	**21313CCK**	77	94	128	126	2	0.22	4.6	3.1	3	2.45
22313CC	**22313CCK**	77	84	128	119	2	0.33	3	2	2	3.52
22214CC	**22214CCK**	79	84	116	111	1.5	0.23	4.3	2.9	2.8	1.58
21314CC	**21314CCK**	82	101	138	135	2	0.22	4.6	3.1	3	3
22314CC	**22314CCK**	82	91	138	129	2	0.33	3	2	2	4.28
22215CC	**22215CCK**	84	87	121	117	1.5	0.22	4.5	3	3	1.64
21315CC	**21315CCK**	87	101	148	134	2	0.22	4.6	3.1	3	3.64
22315CC	**22315CCK**	87	97	148	137	2	0.33	3	2	2	5.26
22216CC	**22216CCK**	90	94	130	126	2	0.22	4.6	3.1	3	2.01
21316CC	**21316CCK**	92	109	158	146	2	0.23	4.4	3	2.9	4.32
22316CC	**22316CCK**	92	103	158	145	2	0.33	3	2	2	6.23
22217CC	**22217CCK**	95	101	140	135	2	0.22	4.6	3.1	3	2.54
21317CC	**21317CCK**	99	108	166	142	2.5	0.24	4.3	2.9	2.8	5.2
22317CC	**22317CCK**	99	110	166	155	2.5	0.33	3.1	2.1	2	7.23

SPHERICAL ROLLER BEARINGS

Bore Diameter 90 – 110 mm



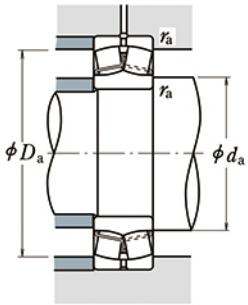
Cylindrical Bore



Tapered Bore

Without an Oil Groove or Holes

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
90	160	40	2	360000	395000	37000	40000	3200	4000
	160	52.4	2	340000	490000	34500	50000	1800	2400
	190	43	3	415000	450000	42000	46000	2800	3600
	190	64	3	665000	705000	68000	72000	2400	3000
	170	43	2.1	415000	450000	42000	46000	3000	3800
95	170	55.6	2.1	370000	525000	37500	53500	1700	2200
	200	45	3	345000	435000	35000	44500	1500	2000
	200	67	3	735000	780000	75000	79500	2200	2800
	150	37	1.5	212000	335000	21600	34500	2200	2800
	150	50	1.5	276000	470000	28100	48000	1800	2400
100	165	52	2	345000	530000	35500	54000	1700	2200
	165	65	2	345000	535000	35000	55000	1700	2200
	180	46	2.1	455000	490000	46500	50000	2800	3600
	180	60.3	2.1	420000	605000	42500	61500	1600	2200
	215	47	3	395000	485000	40500	49500	1400	1900
	215	73	3	860000	930000	88000	94500	2000	2600
	170	45	2	293000	465000	29900	47500	2000	2400
	170	60	2	380000	645000	38500	66000	1600	2200
	180	56	2	385000	630000	39500	64000	1600	2000
	180	69	2	460000	750000	47000	76500	1600	2000
110	200	53	2.1	605000	645000	61500	66000	2600	3200
	200	69.8	2.1	515000	760000	52500	77500	1500	1900
	240	50	3	450000	545000	46000	55500	1300	1700
	240	80	3	1030000	1120000	105000	115000	1900	2400



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leqq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

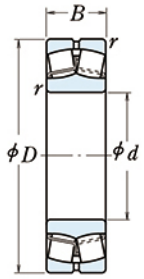
$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

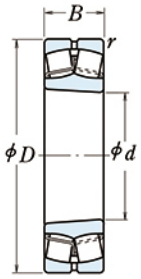
Bearing Numbers		Abutment and Fillet Dimensions (mm)					Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a		D_a		r_a					(kg)
		min.	max.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
22218CC	**22218CCK**	100	108	150	142	2	0.24	4.3	2.9	2.8	3.3
23218CC	**23218CCK**	100	105	150	138	2	0.32	3.2	2.1	2.1	4.51
21318CC	**21318CCK**	104	115	176	152	2.5	0.24	4.3	2.9	2.8	6.1
22318CC	**22318CCK**	104	115	176	163	2.5	0.33	3.1	2.1	2	8.56
22219CC	**22219CCK**	107	115	158	152	2	0.24	4.3	2.9	2.8	4.04
23219CA	**23219CAK**	107	—	158	146	2	0.32	3.1	2.1	2	5.33
21319CC	**21319CCK**	109	127	186	172	2.5	0.22	4.6	3.1	3	6.92
22319CC	**22319CCK**	109	121	186	172	2.5	0.33	3.1	2.1	2	9.91
23020CC	**23020CCK**	109	112	141	136	1.5	0.22	4.6	3.1	3	2.31
24020CC	**24020CCK30**	109	110	141	132	1.5	0.3	3.4	2.3	2.2	3.08
23120CC	**23120CCK**	110	113	155	144	2	0.3	3.4	2.3	2.2	4.38
24120CA	**24120CAK30**	110	—	155	143	2	0.35	2.9	1.9	1.9	5.42
22220CC	**22220CCK**	112	119	168	160	2	0.24	4.3	2.9	2.8	4.84
23220CC	**23220CCK**	112	118	168	155	2	0.32	3.2	2.1	2.1	6.6
21320CC	**21320CCK**	114	133	201	184	2.5	0.21	4.7	3.2	3.1	8.46
22320CC	**22320CCK**	114	130	201	184	2.5	0.33	3	2	2	12.7
23022CC	**23022CCK**	120	124	160	153	2	0.24	4.2	2.8	2.8	3.76
24022CC	**24022CCK30**	120	121	160	148	2	0.32	3.1	2.1	2.1	4.96
23122CC	**23122CCK**	120	127	170	158	2	0.28	3.5	2.4	2.3	5.7
24122CC	**24122CCK30**	120	123	170	154	2	0.36	2.8	1.9	1.8	6.84
22222CC	**22222CCK**	122	129	188	178	2	0.25	4	2.7	2.6	6.99
23222CC	**23222CCK**	122	130	188	170	2	0.34	3	2	1.9	9.54
21322CA	**21322CAK**	124	—	226	206	2.5	0.22	4.6	3.1	3	11.2
22322CC	**22322CCK**	124	145	226	206	2.5	0.33	3.1	2.1	2	17.6

SPHERICAL ROLLER BEARINGS

Bore Diameter 120 – 150 mm



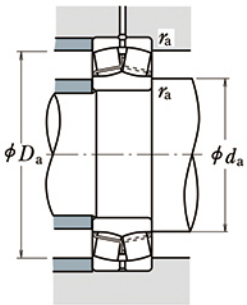
Cylindrical Bore



Tapered Bore

Without an Oil Groove or Holes

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
120	180	46	2	315000	525000	32000	53500	1800	2200
	180	60	2	395000	705000	40500	72000	1500	2000
	200	62	2	465000	720000	47500	73500	1400	1800
	200	80	2	575000	950000	58500	96500	1400	1800
	215	58	2.1	685000	765000	70000	78000	2400	3000
	215	76	2.1	630000	970000	64500	99000	1300	1700
	260	86	3	1190000	1320000	122000	134000	1700	2200
130	200	52	2	400000	655000	40500	67000	1700	2000
	200	69	2	495000	865000	50500	88000	1400	1800
	210	64	2	505000	825000	51500	84500	1300	1700
	210	80	2	590000	1010000	60000	103000	1300	1700
	230	64	3	820000	940000	83500	96000	2200	2600
	230	80	3	700000	1080000	71500	110000	1200	1600
	280	93	4	995000	1350000	101000	137000	1300	1600
140	210	53	2	420000	715000	43000	73000	1600	1900
	210	69	2	525000	945000	53500	96500	1300	1700
	225	68	2.1	580000	945000	59000	96500	1200	1600
	225	85	2.1	670000	1160000	68500	118000	1200	1600
	250	68	3	645000	930000	65500	95000	1400	1700
	250	88	3	835000	1300000	85000	133000	1100	1500
	300	102	4	1160000	1590000	118000	162000	1200	1500
150	225	56	2.1	470000	815000	48000	83000	1400	1800
	225	75	2.1	590000	1090000	60500	111000	1200	1500
	250	80	2.1	725000	1180000	74000	121000	1100	1400
	250	100	2.1	890000	1530000	91000	156000	1100	1400
	270	73	3	765000	1120000	78000	114000	1300	1600
	270	96	3	975000	1560000	99500	159000	1100	1400
	320	108	4	1220000	1690000	125000	172000	1100	1400



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

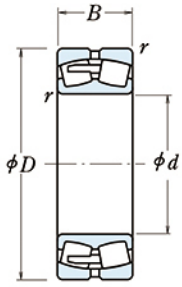
$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

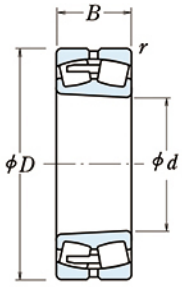
Bearing Numbers		Abutment and Fillet Dimensions (mm)					Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a		D_a		r_a					(kg)
		min.	max.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
23024CC	**23024CCK**	130	134	170	163	2	0.22	4.5	3	2.9	4.11
24024CC	**24024CCK30**	130	131	170	158	2	0.32	3.2	2.1	2.1	5.33
23124CC	**23124CCK**	130	138	190	175	2	0.29	3.5	2.4	2.3	7.85
24124CC	**24124CCK30**	130	136	190	171	2	0.37	2.7	1.8	1.8	10
22224CC	**22224CCK**	132	142	203	190	2	0.25	3.9	2.7	2.6	8.8
23224CC	**23224CCK**	132	140	203	182	2	0.34	2.9	2	1.9	12.1
22324CC	**22324CCK**	134	157	246	222	2.5	0.32	3.1	2.1	2	22.2
23026CC	**23026CCK**	140	147	190	180	2	0.23	4.3	2.9	2.8	5.98
24026CC	**24026CCK30**	140	143	190	175	2	0.31	3.2	2.2	2.1	7.84
23126CC	**23126CCK**	140	149	200	184	2	0.28	3.6	2.4	2.4	8.69
24126CC	**24126CCK30**	140	146	200	180	2	0.35	2.9	1.9	1.9	10.7
22226CC	**22226CCK**	144	152	216	204	2.5	0.26	3.8	2.6	2.5	11
23226CC	**23226CCK**	144	150	216	196	2.5	0.34	2.9	2	1.9	14.3
22326CC	**22326CCK**	148	166	262	236	3	0.34	2.9	2	1.9	28.1
23028CC	**23028CCK**	150	157	200	190	2	0.22	4.5	3	2.9	6.49
24028CC	**24028CCK30**	150	154	200	186	2	0.29	3.4	2.3	2.2	8.37
23128CC	**23128CCK**	152	158	213	198	2	0.28	3.6	2.4	2.3	10.5
24128CC	**24128CCK30**	152	156	213	193	2	0.35	2.9	1.9	1.9	13
22228CC	**22228CCK**	154	167	236	219	2.5	0.25	4	2.7	2.6	14.5
23228CC	**23228CCK**	154	163	236	213	2.5	0.35	2.9	1.9	1.9	18.8
22328CC	**22328CCK**	158	177	282	253	3	0.35	2.9	1.9	1.9	35.4
23030CC	**23030CCK**	162	168	213	203	2	0.22	4.6	3.1	3	7.9
24030CC	**24030CCK30**	162	165	213	198	2	0.3	3.4	2.3	2.2	10.5
23130CC	**23130CCK**	162	174	238	218	2	0.3	3.4	2.3	2.2	15.8
24130CC	**24130CCK30**	162	169	238	212	2	0.38	2.6	1.8	1.7	19.8
22230CC	**22230CCK**	164	179	256	236	2.5	0.26	3.9	2.6	2.5	18.4
23230CC	**23230CCK**	164	176	256	230	2.5	0.35	2.9	1.9	1.9	24.2
22330CA	**22330CAK**	168	—	302	270	3	0.35	2.9	1.9	1.9	41.5

SPHERICAL ROLLER BEARINGS

Bore Diameter 120 – 150 mm



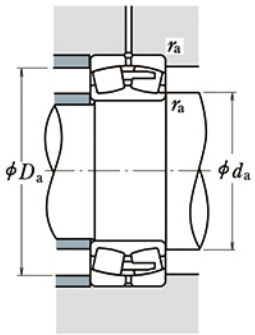
Cylindrical Bore



Tapered Bore

Without an Oil Groove or Holes

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
160	220	45	2	360000	675000	37000	69000	1400	1800
	240	60	2.1	540000	955000	55000	97500	1300	1700
	240	80	2.1	680000	1260000	69000	128000	1100	1400
	270	86	2.1	855000	1400000	87000	143000	1000	1300
	270	109	2.1	1040000	1760000	106000	179000	1000	1300
	290	80	3	910000	1320000	93000	135000	1200	1500
	290	104	3	1100000	1770000	112000	180000	1000	1300
	340	114	4	1360000	1900000	139000	193000	1100	1300
170	230	45	2	350000	660000	35500	67500	1400	1800
	260	67	2.1	640000	1090000	65000	112000	1200	1600
	260	90	2.1	825000	1520000	84000	155000	1000	1300
	280	88	2.1	940000	1570000	96000	160000	1000	1300
	280	109	2.1	1080000	1860000	110000	190000	1000	1300
	310	86	4	990000	1500000	101000	153000	1100	1400
	310	110	4	1200000	1910000	122000	195000	900	1200
	360	120	4	1580000	2110000	161000	215000	1000	1200
180	250	52	2	470000	890000	48000	90500	1200	1600
	280	74	2.1	750000	1270000	76000	129000	1200	1400
	280	100	2.1	965000	1750000	98500	178000	950	1200
	300	96	3	1050000	1760000	108000	180000	900	1200
	300	118	3	1190000	2040000	121000	208000	900	1200
	320	86	4	1020000	1540000	104000	157000	1100	1300
	320	112	4	1300000	2110000	133000	215000	850	1100
	380	126	4	1740000	2340000	177000	238000	950	1200
190	260	52	2	460000	875000	47000	89500	1200	1500
	290	75	2.1	775000	1350000	79000	138000	1100	1400
	290	100	2.1	975000	1840000	99500	188000	900	1200
	320	104	3	1190000	2020000	121000	206000	850	1100
	320	128	3	1370000	2330000	140000	238000	850	1100
	340	92	4	1140000	1730000	116000	176000	1000	1200
	340	120	4	1440000	2350000	147000	240000	800	1100
	400	132	5	1890000	2590000	193000	264000	900	1100



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leqq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

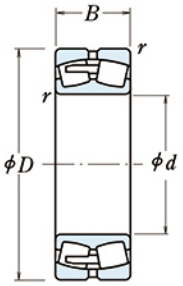
$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

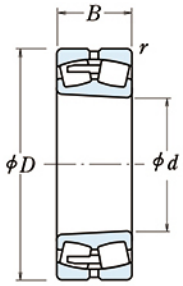
Bearing Numbers		Abutment and Fillet Dimensions (mm)					Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a		D_a		r_a					(kg)
		min.	max.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
23932CA	**23932CAK**	170	—	210	203	2	0.18	5.6	3.8	3.7	4.97
23032CC	**23032CCK**	172	179	228	216	2	0.22	4.5	3	2.9	9.66
24032CC	**24032CCK30**	172	177	228	212	2	0.3	3.4	2.3	2.2	12.7
23132CC	**23132CCK**	172	185	258	234	2	0.3	3.4	2.3	2.2	20.3
24132CC	**24132CCK30**	172	179	258	229	2	0.39	2.6	1.7	1.7	25.4
22232CC	**22232CCK**	174	190	276	255	2.5	0.26	3.8	2.6	2.5	23.1
23232CC	**23232CCK**	174	189	276	245	2.5	0.34	2.9	2	1.9	30.5
22332CA	**22332CAK**	178	—	322	287	3	0.35	2.9	1.9	1.9	49.3
23934BCA	**23934BCAK**	180	—	220	213	2	0.17	5.8	3.9	3.8	5.38
23034CC	**23034CCK**	182	191	248	233	2	0.23	4.3	2.9	2.8	13
24034CC	**24034CCK30**	182	188	248	228	2	0.31	3.2	2.2	2.1	17.3
23134CC	**23134CCK**	182	194	268	245	2	0.29	3.5	2.3	2.3	21.8
24134CC	**24134CCK30**	182	190	268	239	2	0.37	2.7	1.8	1.8	26.6
22234CC	**22234CCK**	188	206	292	270	3	0.26	3.8	2.6	2.5	28.8
23234CC	**23234CCK**	188	201	292	261	3	0.34	2.9	2	1.9	36.4
22334CA	**22334CAK**	188	—	342	304	3	0.35	2.9	1.9	1.9	57.9
23936CA	**23936CAK**	190	—	240	230	2	0.18	5.5	3.7	3.6	7.64
23036CC	**23036CCK**	192	202	268	249	2	0.24	4.2	2.8	2.8	17.1
24036CC	**24036CCK30**	192	200	268	245	2	0.32	3.1	2.1	2	22.7
23136CC	**23136CCK**	194	206	286	260	2.5	0.3	3.4	2.3	2.2	27.5
24136CC	**24136CCK30**	194	202	286	255	2.5	0.37	2.7	1.8	1.8	33.1
22236CC	**22236CCK**	198	212	302	278	3	0.26	3.9	2.6	2.6	30.2
23236CC	**23236CCK**	198	211	302	274	3	0.33	3	2	2	38.9
22336CA	**22336CAK**	198	—	362	322	3	0.34	2.9	2	1.9	67
23938CA	**23938CAK**	200	—	250	240	2	0.18	5.7	3.8	3.7	8.03
23038CA	**23038CAK**	202	—	278	261	2	0.24	4.2	2.8	2.8	17.6
24038CC	**24038CCK30**	202	210	278	253	2	0.31	3.2	2.2	2.1	24
23138CC	**23138CCK**	204	219	306	276	2.5	0.31	3.3	2.2	2.2	34.5
24138CC	**24138CCK30**	204	211	306	269	2.5	0.4	2.5	1.7	1.6	41.5
22238CA	**22238CAK**	208	—	322	296	3	0.26	3.8	2.6	2.5	35.5
23238CC	**23238CCK**	208	222	322	288	3	0.35	2.9	1.9	1.9	47.6
22338CA	**22338CAK**	212	—	378	338	4	0.34	2.9	2	1.9	77.6

SPHERICAL ROLLER BEARINGS

Bore Diameter 200 – 260 mm



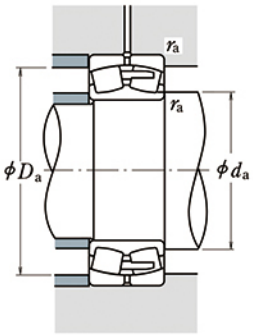
Cylindrical Bore



Tapered Bore

Without an Oil Groove or Holes

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
160	280	60	2.1	570000	1060000	58000	108000	1100	1400
	310	82	2.1	940000	1700000	96000	174000	1000	1300
	310	109	2.1	1140000	2120000	116000	216000	850	1100
	340	112	3	1360000	2330000	139000	238000	800	1000
	340	140	3	1570000	2670000	160000	272000	800	1000
	360	98	4	1300000	2010000	133000	204000	950	1200
	360	128	4	1660000	2750000	169000	281000	750	1000
	420	138	5	2000000	2990000	204000	305000	850	1000
170	300	60	2.1	625000	1240000	64000	126000	1000	1300
	340	90	3	1090000	1980000	111000	202000	950	1200
	340	118	3	1360000	2600000	138000	265000	750	1000
	370	120	4	1570000	2710000	160000	276000	710	950
	370	150	4	1800000	3200000	183000	325000	710	950
	400	108	4	1570000	2430000	160000	247000	850	1000
	400	144	4	2020000	3400000	206000	350000	670	900
	460	145	5	2350000	3400000	240000	345000	750	950
180	320	60	2.1	635000	1300000	65000	133000	950	1200
	360	92	3	1160000	2140000	118000	218000	850	1100
	360	118	3	1390000	2730000	141000	278000	710	950
	400	128	4	1790000	3100000	182000	320000	670	850
	400	160	4	2130000	3800000	217000	385000	670	850
	440	120	4	1870000	2890000	191000	294000	750	950
	440	160	4	2440000	4050000	249000	415000	630	800
	500	155	5	2600000	3800000	265000	385000	670	850
190	360	75	2.1	930000	1870000	95000	191000	850	1000
	400	104	4	1430000	2580000	145000	263000	800	950
	400	140	4	1810000	3500000	185000	360000	630	850
	440	144	4	2160000	3750000	221000	385000	600	800
	440	180	4	2560000	4700000	261000	480000	600	800
	480	130	5	2180000	3400000	222000	345000	670	850
	480	174	5	2740000	4550000	279000	460000	560	750
	540	165	6	3100000	4600000	320000	470000	630	800



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leqq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

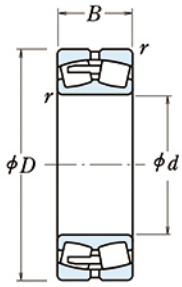
$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

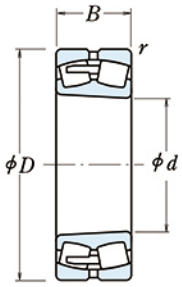
Bearing Numbers		Abutment and Fillet Dimensions (mm)					Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a		D_a		r_a					(kg)
		min.	max.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
23940CA	**23940CAK**	212	—	268	258	2	0.2	5.1	3.4	3.3	11
23040CA	**23040CAK**	212	—	298	279	2	0.25	4	2.7	2.6	22.6
24040CC	**24040CCK30**	212	223	298	271	2	0.32	3.1	2.1	2	30.4
23140CC	**23140CCK**	214	232	326	293	2.5	0.31	3.2	2.2	2.1	42.7
24140CC	**24140CCK30**	214	226	326	290	2.5	0.39	2.6	1.8	1.7	51.3
22240CA	**22240CAK**	218	—	342	315	3	0.26	3.8	2.6	2.5	42.6
23240CC	**23240CCK**	218	237	342	307	3	0.34	2.9	2	1.9	57.1
22340CA	**22340CAK**	222	—	398	352	4	0.34	2.9	2	1.9	92.6
23944CA	**23944CAK**	232	—	288	278	2	0.18	5.7	3.8	3.7	12.2
23044CA	**23044CAK**	234	—	326	302	2.5	0.24	4.1	2.8	2.7	29.7
24044CC	**24044CCK30**	234	244	326	296	2.5	0.31	3.2	2.1	2.1	40.5
23144CC	**23144CCK**	238	254	352	320	3	0.3	3.3	2.2	2.2	53
24144CC	**24144CCK30**	238	248	352	313	3	0.39	2.6	1.7	1.7	66.7
22244CA	**22244CAK**	238	—	382	348	3	0.27	3.7	2.5	2.4	59
23244CC	**23244CCK**	238	260	382	337	3	0.35	2.9	1.9	1.9	80.4
22344CA	**22344CAK**	242	—	438	391	4	0.33	3	2	2	116
23948CA	**23948CAK**	252	—	308	298	2	0.17	6	4	3.9	13.3
23048CA	**23048CAK**	254	—	346	324	2.5	0.24	4.2	2.8	2.7	32.6
24048CC	**24048CCK30**	254	265	346	317	2.5	0.29	3.4	2.3	2.2	43.4
23148CC	**23148CCK**	258	275	382	347	3	0.3	3.3	2.2	2.2	66.9
24148CC	**24148CCK30**	258	268	382	341	3	0.38	2.7	1.8	1.8	79.5
22248CA	**22248CAK**	258	—	422	383	3	0.27	3.7	2.5	2.4	80.2
23248CA	**23248CAK**	258	—	422	372	3	0.37	2.7	1.8	1.8	106
22348CA	**22348CAK**	262	—	478	423	4	0.32	3.2	2.1	2.1	147
23952CA	**23952CAK**	272	—	348	333	2	0.19	5.4	3.6	3.5	23
23052CA	**23052CAK**	278	—	382	356	3	0.25	4.1	2.7	2.7	46.6
24052CA	**24052CAK30**	278	—	382	348	3	0.32	3.1	2.1	2.1	62.6
23152CA	**23152CAK**	278	—	422	380	3	0.32	3.2	2.1	2.1	88.2
24152CA	**24152CAK30**	278	—	422	371	3	0.39	2.6	1.7	1.7	109
22252CA	**22252CAK**	282	—	458	418	4	0.27	3.7	2.5	2.5	104
23252CA	**23252CAK**	282	—	458	406	4	0.37	2.7	1.8	1.8	137
22352CA	**22352CAK**	288	—	512	462	5	0.32	3.2	2.1	2.1	180

SPHERICAL ROLLER BEARINGS

Bore Diameter 280 – 340 mm



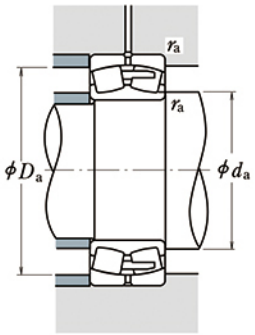
Cylindrical Bore



Tapered Bore

Without an Oil Groove or Holes

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
280	380	75	2.1	925000	1950000	94500	199000	800	950
	420	106	4	1540000	2950000	157000	300000	710	900
	420	140	4	1880000	3800000	191000	385000	600	800
	460	146	5	2230000	4000000	228000	410000	560	750
	460	180	5	2640000	5000000	269000	505000	560	750
	500	130	5	2280000	3650000	233000	370000	630	800
	500	176	5	2880000	4900000	294000	500000	530	670
	580	175	6	3500000	5150000	355000	525000	560	710
300	420	90	3	1230000	2490000	125000	254000	710	900
	460	118	4	1920000	3700000	196000	375000	670	850
	460	160	4	2310000	4600000	235000	470000	530	710
	500	160	5	2670000	4800000	273000	490000	500	670
	500	200	5	3100000	5800000	315000	595000	500	670
	540	140	5	2610000	4250000	266000	430000	600	750
	540	192	5	3400000	5900000	350000	600000	480	630
320	440	90	3	1300000	2750000	132000	281000	670	850
	480	121	4	1960000	3850000	200000	395000	630	800
	480	160	4	2440000	5050000	249000	515000	500	670
	540	176	5	3050000	5500000	315000	560000	480	600
	540	218	5	3550000	6650000	360000	675000	480	600
	580	150	5	2990000	4850000	305000	495000	530	670
	580	208	5	3900000	6900000	395000	700000	450	600
340	460	90	3	1330000	2840000	136000	289000	630	800
	520	133	5	2280000	4400000	232000	445000	560	710
	520	180	5	2920000	6050000	298000	615000	480	600
	580	190	5	3600000	6600000	370000	670000	430	560
	580	243	5	4250000	7900000	430000	810000	430	560
	620	224	6	4400000	7800000	450000	795000	400	530



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leqq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

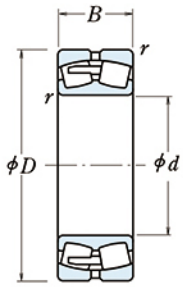
$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

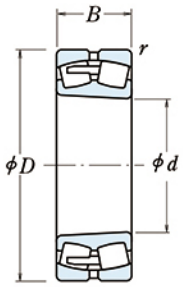
Bearing Numbers		Abutment and Fillet Dimensions (mm)				Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a	D_a		r_a					(kg)
		min.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
23956CA	**23956CAK**	292	368	351	2	0.18	5.7	3.9	3.8	24.5
23056CA	**23056CAK**	298	402	377	3	0.24	4.2	2.8	2.7	50.5
24056CA	**24056CAK30**	298	402	369	3	0.31	3.3	2.2	2.2	66.4
23156CA	**23156CAK**	302	438	400	4	0.3	3.3	2.2	2.2	94.3
24156CA	**24156CAK30**	302	438	392	4	0.37	2.7	1.8	1.8	115
22256CA	**22256CAK**	302	478	439	4	0.25	4	2.7	2.6	110
23256CA	**23256CAK**	302	478	425	4	0.35	2.9	1.9	1.9	147
22356CA	**22356CAK**	308	552	496	5	0.31	3.2	2.1	2.1	221
23960CA	**23960CAK**	314	406	386	2.5	0.19	5.2	3.5	3.4	38.2
23060CA	**23060CAK**	318	442	413	3	0.24	4.2	2.8	2.7	70.5
24060CA	**24060CAK30**	318	442	400	3	0.32	3.1	2.1	2	93.6
23160CA	**23160CAK**	322	478	433	4	0.31	3.3	2.2	2.2	125
24160CA	**24160CAK30**	322	478	423	4	0.38	2.6	1.8	1.7	152
22260CA	**22260CAK**	322	518	473	4	0.25	4	2.7	2.6	139
23260CA	**23260CAK**	322	518	458	4	0.35	2.9	1.9	1.9	189
23964CA	**23964CAK**	334	426	406	2.5	0.18	5.5	3.7	3.6	40.6
23064CA	**23064CAK**	338	462	432	3	0.24	4.2	2.8	2.8	75.6
24064CA	**24064CAK30**	338	462	422	3	0.31	3.3	2.2	2.2	99.7
23164CA	**23164CAK**	342	518	466	4	0.31	3.2	2.1	2.1	162
24164CA	**24164CAK30**	342	518	456	4	0.39	2.6	1.7	1.7	196
22264CA	**22264CAK**	342	558	508	4	0.26	3.9	2.6	2.6	174
23264CA	**23264CAK**	342	558	488	4	0.36	2.8	1.9	1.8	239
23968CA	**23968CAK**	354	446	427	2.5	0.18	5.7	3.8	3.7	42.4
23068CA	**23068CAK**	362	498	465	4	0.24	4.2	2.8	2.8	101
24068CA	**24068CAK30**	362	498	454	4	0.32	3.2	2.1	2.1	135
23168CA	**23168CAK**	362	558	499	4	0.31	3.2	2.1	2.1	206
24168CA	**24168CAK30**	362	558	489	4	0.4	2.5	1.7	1.7	257
23268CA	**23268CAK**	368	592	521	5	0.36	2.8	1.9	1.8	295

SPHERICAL ROLLER BEARINGS

Bore Diameter 360 – 440 mm



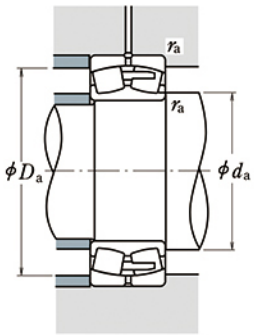
Cylindrical Bore



Tapered Bore

Without an Oil Groove or Holes

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
280	480	90	3	1390000	3050000	142000	315000	600	750
	540	134	5	2390000	4700000	244000	480000	530	670
	540	180	5	2930000	6100000	299000	625000	450	600
	600	192	5	3800000	7100000	390000	725000	400	530
	600	243	5	4200000	8000000	430000	815000	400	530
	650	232	6	4800000	8550000	490000	870000	380	500
	520	106	4	1870000	4100000	190000	420000	530	670
	560	135	5	2500000	5100000	255000	520000	530	630
300	560	180	5	3050000	6600000	315000	670000	430	560
	620	194	5	4000000	7600000	405000	775000	400	500
	620	243	5	4350000	8450000	440000	865000	400	500
	680	240	6	5150000	9200000	525000	940000	360	480
	540	106	4	1890000	4250000	193000	435000	530	630
	600	148	5	2970000	5900000	305000	605000	480	600
	600	200	5	3600000	7600000	370000	775000	400	500
320	650	200	6	4150000	7900000	420000	805000	380	480
	650	250	6	4950000	10100000	505000	1030000	380	480
	720	256	6	5800000	10400000	590000	1060000	340	450
	560	106	4	1870000	4250000	191000	430000	500	600
	620	150	5	2910000	5850000	297000	595000	450	560
	620	200	5	3750000	8100000	380000	825000	380	480
	700	224	6	5000000	9400000	510000	960000	340	450
340	700	280	6	6000000	12000000	610000	1220000	340	450
	760	272	7.5	6450000	11700000	660000	1190000	320	430
	600	118	4	2190000	4800000	223000	490000	450	560
	650	157	6	3150000	6350000	320000	645000	430	530
	650	212	6	4150000	9100000	425000	930000	360	450
	720	226	6	5300000	10300000	540000	1060000	320	430
	720	280	6	6000000	12100000	610000	1230000	320	430
	790	280	7.5	6900000	12800000	705000	1300000	300	400



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leqq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

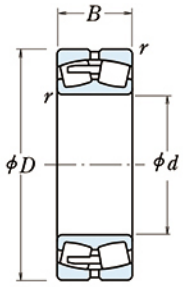
$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

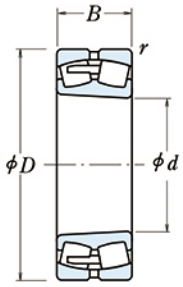
Bearing Numbers		Abutment and Fillet Dimensions (mm)				Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a	D_a		r_a					(kg)
		min.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
23972CA	**23972CAK**	374	466	447	2.5	0.17	6	4.1	4	44.7
23072CA	**23072CAK**	382	518	485	4	0.24	4.2	2.8	2.8	106
24072CA	**24072CAK30**	382	518	476	4	0.32	3.2	2.1	2.1	139
23172CA	**23172CAK**	382	578	520	4	0.31	3.2	2.2	2.1	217
24172CA	**24172CAK30**	382	578	507	4	0.4	2.5	1.7	1.7	264
23272CA	**23272CAK**	388	622	549	5	0.36	2.8	1.9	1.8	342
23976CA	**23976CAK**	398	502	482	3	0.18	5.5	3.7	3.6	65.4
23076CA	**23076CAK**	402	538	506	4	0.22	4.5	3	3	113
24076CA	**24076CAK30**	402	538	496	4	0.29	3.4	2.3	2.3	148
23176CA	**23176CAK**	402	598	540	4	0.3	3.3	2.2	2.2	229
24176CA	**24176CAK30**	402	598	529	4	0.38	2.6	1.8	1.7	275
23276CA	**23276CAK**	408	652	578	5	0.35	2.9	1.9	1.9	372
23980CA	**23980CAK**	418	522	501	3	0.18	5.7	3.9	3.8	69.1
23080CA	**23080CAK**	422	578	540	4	0.23	4.4	3	2.9	146
24080CA	**24080CAK30**	422	578	527	4	0.31	3.3	2.2	2.2	193
23180CA	**23180CAK**	428	622	569	5	0.29	3.4	2.3	2.3	257
24180CA	**24180CAK30**	428	622	551	5	0.37	2.7	1.8	1.8	316
23280CA	**23280CAK**	428	692	610	5	0.36	2.8	1.9	1.9	449
23984CA	**23984CAK**	438	542	521	3	0.17	6	4	3.9	71.6
23084CA	**23084CAK**	442	598	562	4	0.23	4.3	2.9	2.8	151
24084CA	**24084CAK30**	442	598	549	4	0.31	3.2	2.2	2.1	199
23184CA	**23184CAK**	448	672	607	5	0.31	3.3	2.2	2.2	341
24184CA	**24184CAK30**	448	672	598	5	0.38	2.6	1.8	1.7	421
23284CA	**23284CAK**	456	724	644	6	0.35	2.9	1.9	1.9	534
23988CA	**23988CAK**	458	582	555	3	0.18	5.7	3.9	3.8	96.3
23088CA	**23088CAK**	468	622	587	5	0.23	4.3	2.9	2.8	173
24088CA	**24088CAK30**	468	622	576	5	0.31	3.2	2.1	2.1	237
23188CA	**23188CAK**	468	692	627	5	0.3	3.3	2.2	2.2	360
24188CA	**24188CAK30**	468	692	617	5	0.37	2.7	1.8	1.8	433
23288CA	**23288CAK**	476	754	669	6	0.35	2.9	1.9	1.9	594

SPHERICAL ROLLER BEARINGS

Bore Diameter 460 – 560 mm



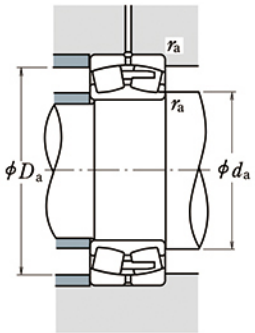
Cylindrical Bore



Tapered Bore

Without an Oil Groove or Holes

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
460	620	118	4	2220000	4950000	227000	505000	430	530
	680	163	6	3450000	7100000	355000	725000	400	500
	680	218	6	4500000	9950000	460000	1010000	340	430
	760	240	7.5	5700000	10900000	580000	1110000	300	400
	760	300	7.5	6300000	12400000	640000	1270000	300	400
	830	296	7.5	7350000	13700000	750000	1400000	280	380
480	650	128	5	2580000	5850000	263000	595000	400	500
	700	165	6	3800000	7950000	385000	810000	400	480
	700	218	6	4600000	10200000	470000	1040000	320	430
	790	248	7.5	6050000	11700000	620000	1200000	300	380
	790	308	7.5	7150000	14600000	730000	1490000	300	380
	870	310	7.5	7850000	14400000	805000	1470000	260	360
500	670	128	5	2460000	5550000	250000	565000	400	500
	720	167	6	3750000	8100000	385000	825000	380	480
	720	218	6	4450000	9900000	450000	1010000	300	400
	830	264	7.5	6850000	13400000	700000	1360000	280	360
	830	325	7.5	8000000	16000000	815000	1630000	280	360
	920	336	7.5	9000000	16600000	915000	1690000	260	320
530	710	136	5	2930000	6800000	299000	695000	360	450
	780	185	6	4400000	9200000	450000	940000	340	430
	780	250	6	5400000	11800000	550000	1210000	280	360
	870	272	7.5	7150000	14100000	730000	1440000	260	340
	870	335	7.5	8500000	17500000	870000	1790000	260	340
	980	355	9.5	10100000	18800000	1030000	1920000	240	300
560	750	140	5	3100000	7250000	320000	740000	340	430
	820	195	6	5000000	10700000	510000	1090000	320	400
	820	258	6	5950000	13300000	605000	1360000	260	340
	920	280	7.5	7850000	15500000	800000	1580000	240	320
	920	355	7.5	9400000	19600000	960000	2000000	240	320
	1030	365	9.5	10900000	20500000	1110000	2090000	220	280



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leqq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

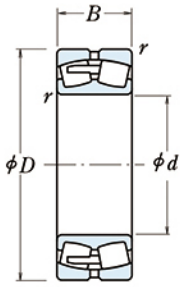
$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

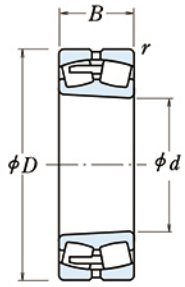
Bearing Numbers		Abutment and Fillet Dimensions (mm)				Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a	D_a		r_a					(kg)
		min.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
23992CA	**23992CAK**	478	602	575	3	0.17	5.9	4	3.9	100
23092CA	**23092CAK**	488	652	615	5	0.22	4.6	3.1	3	201
24092CA	**24092CAK30**	488	652	604	5	0.29	3.4	2.3	2.3	266
23192CA	**23192CAK**	496	724	661	6	0.31	3.3	2.2	2.2	423
24192CA	**24192CAK30**	496	724	646	6	0.39	2.6	1.7	1.7	512
23292CA	**23292CAK**	496	794	702	6	0.36	2.8	1.9	1.8	691
23996CA	**23996CAK**	502	628	602	4	0.18	5.7	3.8	3.7	121
23096CA	**23096CAK**	508	672	633	5	0.22	4.6	3.1	3	211
24096CA	**24096CAK30**	508	672	625	5	0.3	3.4	2.3	2.2	270
23196CA	**23196CAK**	516	754	688	6	0.31	3.3	2.2	2.2	475
24196CA	**24196CAK30**	516	754	670	6	0.39	2.6	1.7	1.7	567
23296CA	**23296CAK**	516	834	733	6	0.36	2.8	1.9	1.8	795
239/500CA	**239/500CAK**	522	648	622	4	0.17	6	4	3.9	124
230/500CA	**230/500CAK**	528	692	655	5	0.21	4.8	3.2	3.1	220
240/500CA	**240/500CAK30**	528	692	643	5	0.3	3.4	2.3	2.2	276
231/500CA	**231/500CAK**	536	794	720	6	0.31	3.2	2.2	2.1	567
241/500CA	**241/500CAK30**	536	794	703	6	0.39	2.6	1.7	1.7	666
232/500CA	**232/500CAK**	536	884	773	6	0.38	2.7	1.8	1.8	969
239/530CA	**239/530CAK**	552	688	659	4	0.17	6	4	3.9	149
230/530CA	**230/530CAK**	558	752	706	5	0.22	4.6	3.1	3	298
240/530CA	**240/530CAK30**	558	752	690	5	0.31	3.3	2.2	2.2	390
231/530CA	**231/530CAK**	566	834	758	6	0.3	3.3	2.2	2.2	628
241/530CA	**241/530CAK30**	566	834	740	6	0.38	2.6	1.8	1.7	773
232/530CA	**232/530CAK**	574	936	824	8	0.38	2.7	1.8	1.7	1 170
239/560CA	**239/560CAK**	582	728	697	4	0.16	6.1	4.1	4	172
230/560CA	**230/560CAK**	588	792	742	5	0.22	4.5	3	2.9	344
240/560CA	**240/560CAK30**	588	792	729	5	0.3	3.3	2.2	2.2	440
231/560CA	**231/560CAK**	596	884	804	6	0.3	3.4	2.3	2.2	727
241/560CA	**241/560CAK30**	596	884	782	6	0.39	2.6	1.8	1.7	886
232/560CA	**232/560CAK**	604	986	870	8	0.36	2.8	1.9	1.8	1 320

SPHERICAL ROLLER BEARINGS

Bore Diameter 600 – 800 mm

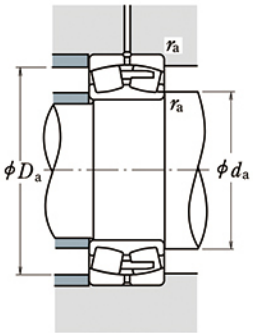


Cylindrical Bore



Tapered Bore

Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	
d	D	B	r	(N)		{kgf}		(min^{-1})	
			min.	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
600	800	150	5	3450000	8100000	350000	830000	320	400
	870	200	6	5450000	12200000	555000	1240000	300	360
	870	272	6	6600000	15100000	675000	1540000	240	320
	980	300	7.5	8750000	17500000	895000	1790000	220	280
	980	375	7.5	10400000	21900000	1060000	2230000	220	280
	1090	388	9.5	12700000	24900000	1300000	2540000	200	260
630	850	165	6	4000000	9350000	405000	950000	300	360
	920	212	7.5	5900000	12700000	600000	1300000	280	340
	920	290	7.5	7550000	17700000	770000	1810000	220	300
	1030	315	7.5	9600000	19400000	980000	1970000	200	260
	1030	400	7.5	11300000	23900000	1160000	2440000	200	260
	1150	412	12	13400000	25600000	1370000	2610000	180	240
670	900	170	6	4350000	10300000	445000	1050000	260	340
	980	230	7.5	6850000	15000000	700000	1530000	240	320
	980	308	7.5	8450000	19500000	860000	1990000	200	260
	1090	336	7.5	10600000	21600000	1080000	2200000	190	240
	1090	412	7.5	12400000	26500000	1270000	2700000	190	240
	1220	438	12	14900000	28700000	1520000	2920000	170	220
710	950	180	6	4800000	11700000	490000	1200000	240	300
	1030	236	7.5	7100000	15800000	725000	1610000	240	280
	1030	315	7.5	8850000	20700000	905000	2110000	190	240
	1150	438	9.5	13900000	30500000	1410000	3100000	170	220
	1280	450	12	15700000	30500000	1600000	3100000	160	200
750	1000	185	6	5250000	12800000	535000	1310000	220	280
	1090	250	7.5	7750000	17200000	790000	1750000	220	260
	1090	335	7.5	10100000	24000000	1030000	2450000	180	220
	1360	475	15	17700000	35500000	1800000	3600000	140	190
800	1060	195	6	5600000	13700000	570000	1400000	220	260
	1150	258	7.5	8350000	19100000	850000	1950000	200	240
	1150	345	7.5	10900000	26300000	1110000	2680000	160	200
	1280	375	9.5	13800000	29200000	1410000	2970000	150	190
	1420	488	15	20300000	41000000	2070000	4150000	130	170



Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leqq e$		$F_a/F_r > e$	
X	Y	X	Y
1	Y_3	0.67	Y_2

Static Equivalent Load

$P_0 = F_r + Y_0 F_a$

The values of e, Y_2, Y_3, and Y_0 are given in the table below.

Bearing Numbers		Abutment and Fillet Dimensions (mm)				Constant	Axial Load Factors			Mass
Cylindrical Bore	Tapered Bore(1)	d_a	D_a		r_a					(kg)
		min.	max.	min.	max.	e	Y_2	Y_3	Y_0	approx.
239/600CA	**239/600CAK**	622	778	745	4	0.17	5.9	3.9	3.9	205
230/600CA	**230/600CAK**	628	842	794	5	0.21	4.8	3.3	3.2	389
240/600CA	**240/600CAK30**	628	842	772	5	0.3	3.3	2.2	2.2	529
231/600CA	**231/600CAK**	636	944	856	6	0.3	3.4	2.3	2.2	898
241/600CA	**241/600CAK30**	636	944	836	6	0.39	2.6	1.8	1.7	1 050
232/600CA	**232/600CAK**	644	1046	923	8	0.36	2.8	1.9	1.8	1 590
239/630CA	**239/630CAK**	658	822	786	5	0.18	5.6	3.8	3.7	259
230/630CA	**230/630CAK**	666	884	835	6	0.22	4.7	3.1	3.1	468
240/630CA	**240/630CAK30**	666	884	815	6	0.3	3.3	2.2	2.2	637
231/630CA	**231/630CAK**	666	994	900	6	0.3	3.4	2.3	2.2	1 040
241/630CA	**241/630CAK30**	666	994	876	6	0.38	2.7	1.8	1.7	1 250
232/630CA	**232/630CAK**	684	1096	970	10	0.36	2.8	1.9	1.8	1 850
239/670CA	**239/670CAK**	698	872	836	5	0.17	5.8	3.9	3.8	300
230/670CA	**230/670CAK**	706	944	891	6	0.22	4.7	3.1	3.1	571
240/670CA	**240/670CAK30**	706	944	868	6	0.3	3.3	2.2	2.2	773
231/670CA	**231/670CAK**	706	1054	952	6	0.3	3.3	2.2	2.2	1 230
241/670CA	**241/670CAK30**	706	1054	934	6	0.37	2.7	1.8	1.8	1 440
232/670CA	**232/670CAK**	724	1166	1024	10	0.37	2.7	1.8	1.8	2 210
239/710CA	**239/710CAK**	738	922	883	5	0.17	5.8	3.9	3.8	352
230/710CA	**230/710CAK**	746	994	936	6	0.22	4.6	3.1	3	647
240/710CA	**240/710CAK30**	746	994	916	6	0.29	3.4	2.3	2.2	861
241/710CA	**241/710CAK30**	754	1106	981	8	0.38	2.6	1.8	1.7	1 730
232/710CA	**232/710CAK**	764	1226	1080	10	0.36	2.8	1.9	1.8	2 470
239/750CA	**239/750CAK**	778	972	931	5	0.17	6	4.1	4	398
230/750CA	**230/750CAK**	786	1054	990	6	0.22	4.6	3.1	3	768
240/750CA	**240/750CAK30**	786	1054	969	6	0.29	3.4	2.3	2.2	1 030
232/750CA	**232/750CAK**	814	1296	1148	12	0.36	2.8	1.9	1.8	2 980
239/800CA	**239/800CAK**	828	1032	987	5	0.17	6	4	3.9	462
230/800CA	**230/800CAK**	836	1114	1045	6	0.21	4.7	3.2	3.1	870
240/800CA	**240/800CAK30**	836	1114	1029	6	0.27	3.7	2.5	2.5	1 130
231/800CA	**231/800CAK**	844	1236	1127	8	0.28	3.6	2.4	2.3	1870
232/800CA	**232/800CAK**	864	1356	1208	12	0.35	2.8	1.9	1.9	3 250

Thrust Roller Bearings

Spherical roller thrust bearings

Spherical roller thrust bearings have specially designed raceways and accommodate a large number of asymmetrical rollers. The rollers have an optimum conformity with the washer raceways to optimize load distribution along the roller length. Therefore, they can accommodate relatively high speeds, heavy axial loads in one direction and heavy radial loads. The load is transmitted between the raceways at an angle to the bearing axis.

Basic design of bearings

Depending on their series and size, spherical roller thrust bearings are manufactured to two basic designs: bearings with no designation suffix and E design bearings.Bearings with an E designation suffix have larger rollers and an optimized internal design for increased load carrying capacity. E design bearings up to size 68 are fitted with a stamped windowtype steel cage.E design bearings from size 72 and larger are fitted with a machined prongtype cage.This type of cage is guided by a sleeve held in the shaft washer bore. The shaft washer, cage and rollers form a nonseparable unit.

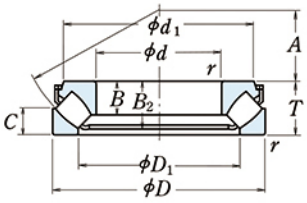
Tolerances for Thrust Spherical Roller Bearings

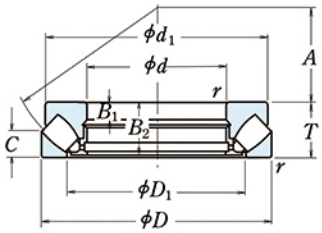
Nominal Bore Diameter d (mm)		△dmp		V_{dp}	Reference		
					S_d	△Ts	
over	incl.	high	low	max.	max.	high	low
50	80	0	-15	11	25	+150	-150
80	120	0	-20	15	25	+200	-200
120	180	0	-25	19	30	+250	-250
180	250	0	-30	23	30	+300	-300
250	315	0	-35	26	35	+350	-350
315	400	0	-40	30	40	+400	-400
400	500	0	-45	34	45	+450	-450

Remarks The bore diameter "no-go side" tolerances (high) specified in this table do not necessarily apply within a distance of 1.2 times the chamfer dimension r (max.) from the ring face.

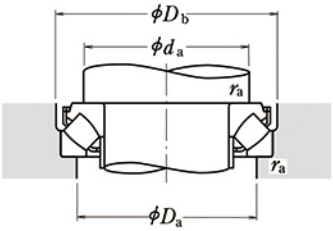
THRUST SPHERICAL ROLLER BEARINGS

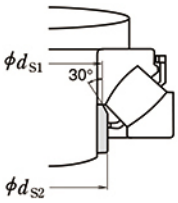
Bore Diameter 60 – 200 mm





Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	Bearing Numbers
d	D	T	r	(N)		{kgf}		(min⁻¹)	
			min.	C_a	C_{0a}	C_a	C_{0a}	Oil	
60	130	42	1.5	330000	885000	33500	90000	2600	**29412 E**
65	140	45	2	405000	1100000	41500	112000	2400	**29413 E**
70	150	48	2	450000	1240000	46000	126000	2400	**29414 E**
75	160	51	2	515000	1430000	52500	146000	2200	**29415 E**
80	170	54	2.1	575000	1600000	58500	163000	2000	**29416 E**
85	150	39	1.5	330000	1040000	34000	106000	2400	**29317 E**
	180	58	2.1	630000	1760000	64500	179000	1900	**29417 E**
90	155	39	1.5	350000	1080000	35500	110000	2200	**29318 E**
	190	60	2.1	695000	1950000	70500	199000	1800	**29418 E**
100	170	42	1.5	410000	1280000	41500	131000	2000	**29320 E**
	210	67	3	840000	2400000	86000	245000	1600	**29420 E**
110	190	48	2	530000	1710000	54000	174000	1800	**29322 E**
	230	73	3	1010000	2930000	103000	299000	1500	**29422 E**
120	210	54	2.1	645000	2100000	65500	214000	1600	**29324 E**
	250	78	4	1160000	3400000	119000	350000	1400	**29424 E**
130	225	58	2.1	740000	2450000	75500	250000	1500	**29326 E**
	270	85	4	1330000	3900000	135000	400000	1200	**29426 E**
140	240	60	2.1	840000	2810000	85500	287000	1400	**29328 E**
	280	85	4	1370000	4200000	140000	425000	1200	**29428 E**
150	250	60	2.1	870000	2900000	89000	296000	1400	**29330 E**
	300	90	4	1580000	4900000	162000	500000	1100	**29430 E**
160	270	67	3	1010000	3400000	103000	345000	1300	**29332 E**
	320	95	5	1740000	5400000	178000	550000	1100	**29432 E**
170	280	67	3	1050000	3500000	107000	355000	1200	**29334 E**
	340	103	5	1680000	5800000	171000	595000	1000	**29434 M**
180	300	73	3	1230000	4200000	125000	430000	1100	**29336 E**
	360	109	5	1870000	6500000	190000	660000	900	**29436 M**
190	320	78	4	1370000	4700000	140000	480000	1100	**29338 E**
	380	115	5	2100000	7450000	215000	760000	850	**29438 M**
200	280	48	2	540000	2310000	55000	236000	1500	**29240 M**
	340	85	4	1570000	5450000	160000	555000	1000	**29340 E**
	400	122	5	2290000	8150000	234000	835000	800	**29440 M**





Dynamic Equivalent Load

$P = 1.2F_r + F_a$

Static Equivalent Load

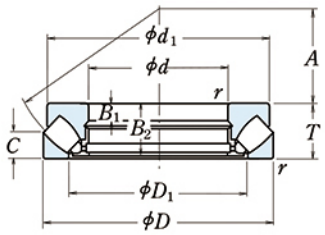
$P_0 = 2.8F_r + F_a$

However, $F_r/F_a \leqq 0.55$ must be satisfied.

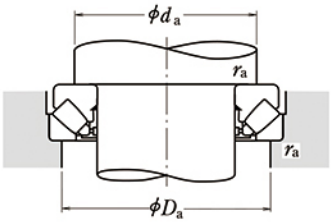
Dimensions (mm)						Spacer Sleeve Dimensions		Abutment and Fillet Dimensions (mm)				Mass
d_1	D_1	B, B_1	B_2	C	A	d_{S1}	d_{S2}	d_a(1)	D_a	D_b	r_a	(kg)
						max.	max.	min.	max.	min.	max.	approx.
114.5	89	27	38	20	38	67	67	90	108	133	1.5	2.55
121.5	93	29.5	40.5	22	42	72	72	100	115	143	2	3.2
131.5	102	31	43	24	44	78	78	105	125	153	2	3.9
138	107	33.5	46	25	47	83	83	115	132	163	2	4.65
148	114.5	35	48.5	27	50	89	89	120	140	173	2	5.55
134.5	112	24.5	35.5	19	50	91	91	115	135	153	1.5	2.7
156.5	124	37	51.5	28	54	95	95	130	150	183	2	6.55
139.5	118	24.5	35	19	52	97	97	120	140	158	1.5	2.83
165.5	129.5	39	54.5	29	56	100	100	135	157	193	2	7.55
152	128	26.2	38	20.8	58	107	107	130	150	173	1.5	3.6
185	144	43	59.5	33	62	111	111	150	175	214	2.5	10.3
169.5	142.5	30.3	43.5	24	64	117	117	145	165	193	2	5.25
200	157	47	64.5	36	69	121	129	165	190	234	2.5	13.3
187.5	156.5	34	48.5	27	70	130	130	160	180	214	2	7.3
215	171	50.5	69.5	38	74	132	142	180	205	254	3	16.6
203.5	168.5	37	53.5	28	76	141	143	170	195	229	2	8.95
235	185	54	74.5	42	81	143	153	195	225	275	3	21.1
216.5	179	38.5	54	30	82	148	154	185	205	244	2	10.4
244.5	195.5	54	74.5	42	86	153	162	205	235	285	3	22.2
224	190	38	54.5	29	87	158	163	195	215	254	2	10.8
266	209	58	81	44	92	164	175	220	250	306	3	27.3
243	203	42	60	33	92	169	176	210	235	275	2.5	14.3
278	224.5	60.5	84.5	46	99	175	189	230	265	326	4	32.1
252	214.5	42.2	60.5	32	96	178	188	220	245	285	2.5	14.8
310	243	37	99	50	104	—	—	245	285	—	4	43.5
270	227	46	65.5	36	103	189	195	235	260	306	2.5	19
330	255	39	105	52	110	—	—	260	300	—	4	52
288.5	244	49	69	38	110	200	211	250	275	326	3	23
345	271	41	111	55	117	—	—	275	320	—	4	60
266	236	15	46	24	108	—	—	235	255	—	2	8.55
306.5	257	53.5	75	41	116	211	224	265	295	346	3	28.5
365	280	43	117	59	122	—	—	290	335	—	4	69

THRUST SPHERICAL ROLLER BEARINGS

Bore Diameter 220 – 420 mm



Boundary Dimensions (mm)				Basic Load Ratings				Limiting Speeds	Bearing Numbers
d	D	T	r	(N)		{kgf}		(min⁻¹)	
			min.	C_a	C_{0a}	C_a	C_{0a}	Oil	
220	300	48	2	560000	2500000	57000	255000	1400	**29244 M**
	360	85	4	1340000	5200000	137000	530000	950	**29344 M**
	420	122	6	2350000	8650000	240000	880000	800	**29444 M**
240	340	60	2.1	800000	3450000	82000	350000	1200	**29248 M**
	380	85	4	1360000	5400000	139000	550000	950	**29348 M**
	440	122	6	2420000	9100000	247000	930000	750	**29448 M**
260	360	60	2.1	855000	3850000	87500	395000	1200	**29252 M**
	420	95	5	1700000	6800000	173000	695000	800	**29352 M**
	480	132	6	2820000	10700000	287000	1090000	710	**29452 M**
280	380	60	2.1	885000	4100000	90000	420000	1100	**29256 M**
	440	95	5	1830000	7650000	187000	780000	800	**29356 M**
	520	145	6	3400000	13100000	345000	1330000	630	**29456 M**
300	420	73	3	1160000	5150000	118000	525000	950	**29260 M**
	480	109	5	2190000	9100000	224000	925000	710	**29360 M**
	540	145	6	3500000	13700000	355000	1390000	630	**29460 M**
320	440	73	3	1190000	5450000	122000	555000	950	**29264 M**
	500	109	5	2230000	9400000	227000	960000	670	**29364 M**
	580	155	7.5	3650000	14600000	370000	1490000	560	**29464 M**
340	460	73	3	1230000	5750000	125000	590000	900	**29268 M**
	540	122	5	2640000	11200000	269000	1140000	630	**29368 M**
	620	170	7.5	4400000	17400000	450000	1780000	530	**29468 M**
360	500	85	4	1550000	7300000	158000	745000	800	**29272 M**
	560	122	5	2670000	11500000	272000	1180000	600	**29372 M**
	640	170	7.5	4200000	17200000	430000	1750000	500	**29472 M**
380	520	85	4	1620000	7800000	165000	795000	800	**29276 M**
	600	132	6	3300000	14500000	335000	1480000	560	**29376 M**
	670	175	7.5	4800000	19500000	490000	1990000	480	**29476 M**
400	540	85	4	1640000	8000000	167000	815000	750	**29280 M**
	620	132	6	3250000	14500000	330000	1480000	530	**29380 M**
	710	185	7.5	5400000	22100000	550000	2250000	450	**29480 M**
420	580	95	5	2010000	9800000	205000	1000000	670	**29284 M**
	650	140	6	3500000	15700000	355000	1600000	500	**29384 M**
	730	185	7.5	5650000	23500000	575000	2400000	450	**29484 M**



Dynamic Equivalent Load

$P = 1.2F_r + F_a$

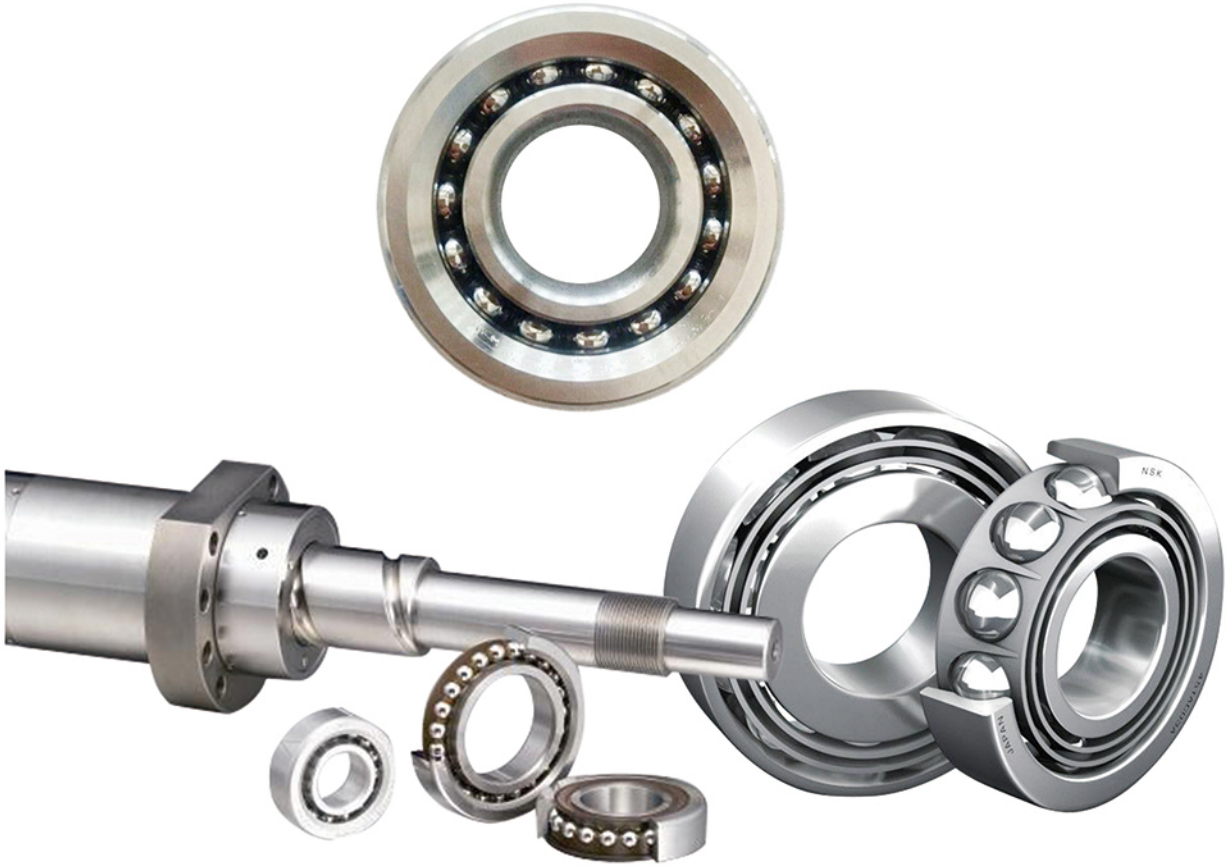
Static Equivalent Load

$P_0 = 2.8F_r + F_a$

However, $F_r/F_a \leqq 0.55$ must be satisfied.

Dimensions (mm)						Abutment and Fillet Dimensions (mm)			Mass
d_1	D_1	B_1	B_2	C	A	d_a(1)	D_a	r_a	(kg)
						min.	max.	max.	approx.
285	254	15	46	24	117	260	275	2	9.2
335	280	29	81	41	125	285	315	3	33
385	308	43	117	58	132	310	355	5	74
325	283	19	57	30	130	285	305	2	16.5
355	300	29	81	41	135	300	330	3	35.5
405	326	43	117	59	142	330	375	5	79
345	302	19	57	30	139	305	325	2	18
390	329	32	91	45	148	330	365	4	48.5
445	357	48	127	64	154	360	405	5	105
365	323	19	57	30	150	325	345	2	19
410	348	32	91	46	158	350	390	4	52.5
480	384	52	140	68	166	390	440	5	132
400	353	21	69	38	162	355	380	2.5	30
450	379	37	105	50	168	380	420	4	74
500	402	52	140	70	175	410	460	5	140
420	372	21	69	38	172	375	400	2.5	32.5
470	399	37	105	53	180	400	440	4	77
555	436	55	149	75	191	435	495	6	175
440	395	21	69	37	183	395	420	2.5	33.5
510	428	41	117	59	192	430	470	4	103
590	462	61	164	82	201	465	530	6	218
480	423	25	81	44	194	420	455	3	51
525	448	41	117	59	202	450	495	4	107
610	480	61	164	82	210	485	550	6	228
496	441	27	81	42	202	440	475	3	52
568	477	44	127	63	216	480	525	5	140
640	504	63	168	85	230	510	575	6	254
517	460	27	81	42	212	460	490	3	55
590	494	44	127	64	225	500	550	5	150
680	536	67	178	89	236	540	610	6	306
553	489	30	91	46	225	490	525	4	72
620	520	48	135	68	235	525	575	5	170
700	556	67	178	89	244	560	630	6	323

Ball Screw Support Bearings



Angular Contact Thrust Ball Bearings for Ball Screw Support

Features

High precision angular contact thrust ball bearings to support precision ball scews, have better performance than earlier combinations of angular contact ball bearings or combinations using thrust bearings . The are especially suitable for high precision machine-too feeding mechanisms and similar applications.

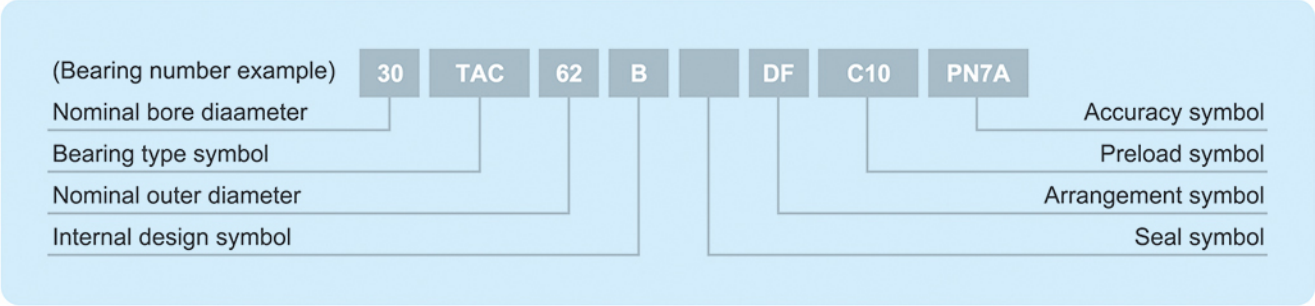
TAC B Series (Machine Tool Applications)

The axial rigidity is high because of a large number of balls and a contact angle of 60 degree.Compared with tapered roller bearings and cylindrical rollre bearings , this type has lower starting torque; so smoother rotation is possible with less driving force.

TAC B series bearings incorporate our recent developed molded polyamide resin cage . In addition , using extra-pure (EP) steel for the inner and outer rings has future enhanced service life. Our EP steel is manufactured by controlling the amount of harmful oxide inclusions, which eliminates large size inclusions and enjoys higher purity than vacuum arc remelted (VAR) steel .

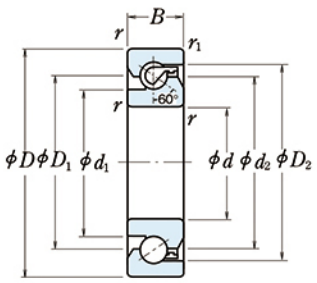
TAC02 and 03 series (Electric Injection Molding Machines)

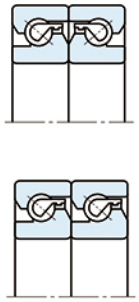
TAC02 and 03 series are angular contact ball bearings that provide support for large size ball screws operating under a heavy load from the driving mechanism of electric injection molding machines. Low torque is achieved by optimum design of the ball bearings . Users can significantly reduce bearing torque by replacing their roller bearings with these series.



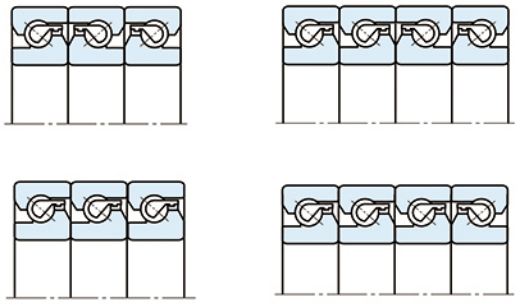
30	Nominal bore diameter	Bore diameter(mm)
TAC	Bearing type	Angular contact thrust ball bearing;60°contact angle
62	Nominal outer diameter	Outer diameter(mm)
B	Internal design	
	Seal	No symbol:open type DDG:contact rubber seal
DF	Arrangement	SU:universal arrangement(single row) DU:universal arrangement(double row)
		DB:Back-to-back arrangement DF:Face-to-face arrangement
		DT:tandem arrangement DBD,DFD,DTD:triplex set arrangement DTT:quadruplex set arrangement
C10	Preload	C10:standard preload C9:light preload(low torque specification)
PN7A	Accuracy	PN7A:standard accuracy(Equivalent to ISO Class 4) PN7B:special accuracy

BALL SCREW SUPPORT BEARING





Boundary Dimensions (mm)					Dimensions (mm)				Limiting Speeds (min⁻¹)		Bearing Numbers	Mass (kg)
d	D	B	r	r_1	d_1	d_2	D_1	D_2				
			min.	min.					Grease	Oil		approx.
15	47	15	1	0.6	27.2	34	34	39.6	6000	8000	**15 TAC 47B**	0.144
17	47	15	1	0.6	27.2	34	34	39.6	6000	8000	**17 TAC 47B**	0.144
20	47	15	1	0.6	27.2	34	34	39.6	6000	8000	**20 TAC 47B**	0.135
25	62	15	1	0.6	37	45	45	50.7	4500	6000	**25 TAC 62B**	0.252
30	62	15	1	0.6	39.5	47	47	53.2	4300	5600	**30 TAC 62B**	0.224
35	72	15	1	0.6	47	55	55	60.7	3600	5000	**35 TAC 72B**	0.31
40	72	15	1	0.6	49	57	57	62.7	3600	4800	**40 TAC 72B**	0.275
	90	20	1	0.6	57	68	68	77.2	3000	4000	**40 TAC 90B**	0.674
45	75	15	1	0.6	54	62	62	67.7	3200	4300	**45 TAC 75B**	0.27
	100	20	1	0.6	64	75	75	84.2	2600	3600	**45 TAC 100B**	0.842
50	100	20	1	0.6	67.5	79	79	87.7	2600	3400	**50 TAC 100B**	0.778
55	100	20	1	0.6	67.5	79	79	87.7	2600	3400	**55 TAC 100B**	0.714
	120	20	1	0.6	82	93	93	102.2	2200	3000	**55 TAC 120B**	1.23
60	120	20	1	0.6	82	93	93	102.2	2200	3000	**60 TAC 120B**	1.16



Dynamic Equivalent Load

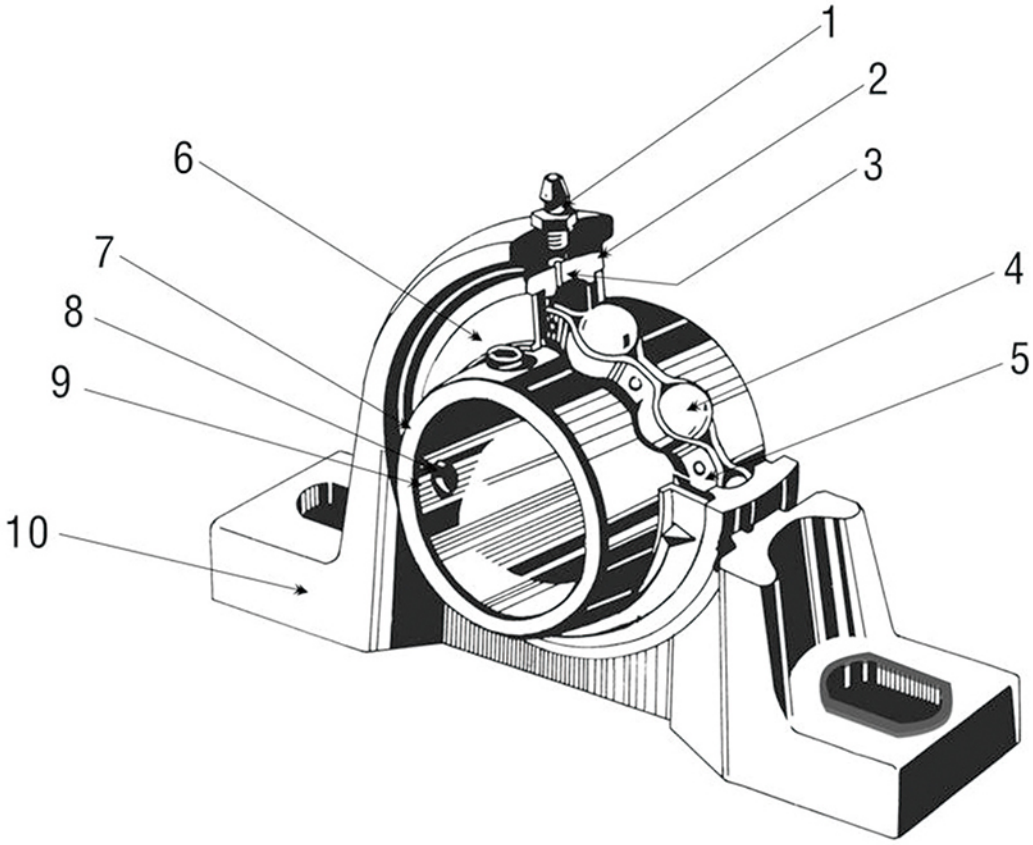
$P_a = XF_r + YF_a$

Rows		Two Rows		Three Rows			Four Rows		
Combination		DF	DT	DFD		DTD	DFT	DFF	DFT
$e=2.17$ \ Axial Load Sustained by		One Row	Two Rows	One Row	Two Rows	Three Rows	One Row	Two Rows	Three Rows
$F_a/F_r \leqq e$	X	1.90	—	1.43	2.33	—	1.17	2.33	2.53
	Y	0.55	—	0.77	0.35	—	0.89	0.35	0.26
$F_a/F_r > e$	X	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
	Y	1	1	1	1	1	1	1	1

Basic Load RatingsCa						Limiting Axial Load					
Sustained by one row		Sustained by two rows		Sustained by three rows		Sustained by one row		Sustained by two rows		Sustained by three rows	
DF		DT, DFD, DFF		DTD, DFT		DF		DT, DFD, DFF		DTD, DFT	
(N)	{kgf}	(N)	{kgf}	(N)	{kgf}	(N)	{kgf}	(N)	{kgf}	(N)	{kgf}
21900	2240	35500	3650	47500	4850	26600	2710	53000	5400	79500	8150
21900	2240	35500	3650	47500	4850	26600	2710	53000	5400	79500	8150
21900	2240	35500	3650	47500	4850	26600	2710	53000	5400	79500	8150
28500	2910	46500	4700	61500	6250	40500	4150	81500	8300	122000	12500
29200	2980	47500	4850	63000	6400	43000	4400	86000	8800	129000	13200
31000	3150	50500	5150	67000	6850	50000	5100	100000	10200	150000	15300
31500	3250	51500	5250	68500	7000	52000	5300	104000	10600	157000	16000
59000	6000	95500	9750	127000	13000	89500	9150	179000	18300	269000	27400
33000	3350	53500	5450	71000	7250	57000	5800	114000	11600	170000	17400
61500	6300	100000	10200	133000	13600	99000	10100	198000	20200	298000	30500
63000	6400	102000	10400	136000	13800	104000	10600	208000	21200	310000	32000
63000	6400	102000	10400	136000	13800	104000	10600	208000	21200	310000	32000
67500	6850	109000	11200	145000	14800	123000	12600	246000	25100	370000	37500
67500	6850	109000	11200	145000	14800	123000	12600	246000	25100	370000	37500

Pillow Block Bearing

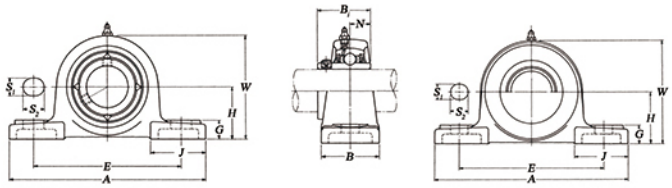
STRUCTURE OF PILLOW BLOCKS



(1) Grease nipple
(2) Self-aligning outer ring
(3) Grease hole
(4) Ball
(5) Steel backed rubber seal
(6) Steel slinger
(7) Wide inner ring
(8) Set screw
(9) Anneal area
(10) Cast iron housing

BALL BEARING UNITS

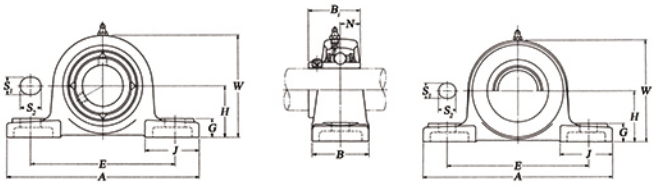
Pillow Blocks - Cast Iron UCP200



Unit No.	Shaft Diameter		Bearing No.	Dimensions in mm										Bolt	Housing No.	Approx
	inch	mm		H	A	E	B	S1	S2	G	W	Bi	N	Size mm		Wt. Kg
UCP201		12	UC 201	30.2	127	95	38	13	19	15	62	31.0	12.7	M10	P203	0.70
UCP201-8	1/2	12.700	UC201-8													
UCP202-9	9/16	14.288	UC202-9	30.2	127	95	38	13	19	15	62	31	12.7	M10	P203	0.69
UCP202		15	UC202													
UCP202-10	5/8	15.875	UC202-10													
UCP203		17	UC203	30.2	127	95	38	13	19	15	62	31.0	12.7	M10	P203	0.68
UCP203-11	11/16	17.462	UC203-11													
UCP204-12	3/4	19.050	UC204-12	33.3	127	95	38	13	19	15	65	31	12.7	M10	P204	0.69
UCP204		20	UC204													
UCP205-13	13/16	20.638	UC205-13	36.5	140	105	38	13	19	16	70	34.0	14.8	M10	P205	0.84
UCP205-14	7/8	22.225	UC205-14													
UCP205-15	15/16	23.812	UC205-15													
UCP205		25	UC205													
UCP205-16	1	25.400	UC205-16													
UCP206-17	1-1/16	26.988	UC206-17	42.9	165	121	48	17	21	18	83	38.1	15.9	M14	P206	1.36
UCP206-18	1-1/8	28.575	UC206-18													
UCP206		30	UC206													
UCP206-19	1-3/16	30.162	UC206-19													
UCP206-20	2001-1-4	31.750	UC206-20													
UCP207-20	1-1/4	31.750	UC207-20	47.6	167	127	48	17	21	19	94	42.9	17.5	M14	P207	1.74
UCP207-21	1-5/16	33.338	UC207-21													
UCP207-22	1-3/8	34.925	UC207-22													
UCP207		35	UC207													
UCP207-23	1-7/16	36.512	UC207-23													
UCP208-23	1-7/16	36.512	UC208-23	49.2	184	137	54	17	23	19	100	49.2	19.0	M14	P208	2.20
UCP208-24	1-1/2	38.100	UC208-24													
UCP208-25	1-9/16	39.688	UC208-25													
UCP208		40	UC208													
UCP209-26	1-5/8	41.275	UC209-26	54.0	190	146	54	17	23	20	108	49.2	19.0	M14	P209	2.40
UCP209-27	1-11/16	42.862	UC209-27													
UCP209-28	1-3/4	44.450	UC209-28													
UCP209		45	UC209													
UCP210-29	1-13/16	46.038	UC210-29	57.2	206	159	60	20	25	22	114	51.6	19.0	M16	P210	2.70
UCP210-30	1-7/8	47.625	UC210-30													
UCP210-31	1-15/16	49.212	UC210-31													
UCP210		50	UC210													
UCP210-32	2	50.800	UC210-32													
UCP211-32	2	50.800	UC211-32	63.5	219	171	60	20	25	22	126	55.6	22.2	M16	P211	3.40
UCP211-33	2-1/16	52.388	UC211-33													
UCP211-34	2-1/8	53.975	UC211-34													
UCP211		55	UC211													
UCP211-35	2-3/16	55.562	UC211-35													
UCP212-36	2-1/4	57.150	UC212-36	69.8	241	184	70	20	25	25	138	65.1	25.4	M16	P212	4.90
UCP212-37	2-5/16	58.738	UC212-37													
UCP212		60	UC212													
UCP212-38	2-3/8	60.325	UC212-38													
UCP213-39	2-7/16	61.912	UC213-39	76.2	265	203	70	25	29	27	150	65.1	25.4	M20	P213	5.80
UCP213-40	2-1/2	63.500	UC213-40													
UCP213		65	UC213													
UCP214-42	2-5/8	66.675	UC214-42	79.4	266	210	72	25	31	27	156	74.6	30.2	M20	P214	6.50
UCP214-43	2-11/16	68.262	UC214-43													
UCP214-44	2-3/4	69.850	UC214-44													
UCP214		70	UC214													
UCP215-45	2-13/16	71.438	UC215-45	82.6	275	217	74	25	31	28	163	77.8	33.3	M20	P215	7.20
UCP215-46	2-7/8	73.025	UC215-46													
UCP215-47	2-15/16	74.612	UC215-47													
UCP215		75	UC215													
UCP215-48	3	76.200	UC215-48													
UCP216-50	3-1/8	79.375	UC216-50	88.9	292	232	78	25	31	30	175	82.6	33.3	M20	P216	8.70
UCP216		80	UC216													
UCP216-51	3-3/16	80.962	UC216-51													
UCP217-52	3-1/4	82.550	UC217-52	95.2	310	247	83	25	31	32	187	85.7	34.1	M20	P217	11.20
UCP217		85	UC217													
UCP218-55	3-7/16	87.312	UC218-55	101.6	327	262	88	27	33	34	200	96.0	39.7	M22	P218	13.40
UCP218-56	3-1/2	88.900	UC218-56													
UCP218		90	UC218													

BALL BEARING UNITS

Pillow Blocks - Cast Iron UCP 300

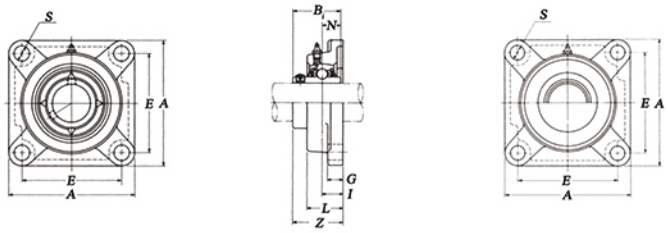


Unit No.	Shaft Diameter		Bearing No.	Dimensions in mm										Bolt	Housing No.	Approx
	inch	mm		H	A	E	B	S1	S2	G	W	Bi	N	Size mm		Wt. Kg
UCP305-13	20.638	13/16	UC305-13	45	175	132	45	17	20	16	83	38	15	M14	P305	1.33
UCP305-14	22.225	7/8	UC305-14													
UCP305-15	23.812	15/16	UC305-15													
UCP305	25		UC305													
UCP305-16	25.400	1	UC305-16													
UCP306-17	26.988	1-1/16	UC306-17	50	180	140	50	17	20	19	94	43	17	M14	P306	1.83
UCP306-18	28.575	1-1/8	UC306-18													
UCP306	30		UC306													
UCP306-19	30.162	1-3/16	UC306-19													
UCP306-20	31.750	1-1/4	UC306-20													
UCP307-20	31.750	1-1/4	UC307-20	56	210	160	56	17	25	21	105	48	19	M14	P307	2.50
UCP307-21	33.338	1-5/16	UC307-21													
UCP307-22	34.925	1-3/8	UC307-22													
UCP307	35		UC307													
UCP307-23	36.512	1-7/16	UC307-23													
UCP308-23	36.512	1-7/16	UC308-23	60	220	170	60	17	27	23	116	52	19	M14	P308	3.20
UCP308-24	38.100	1-1/2	UC308-24													
UCP308-25	39.688	1-9/16	UC308-25													
UCP308	40		UC308													
UCP309-26	41.275	1-5/8	UC309-26	67	245	190	67	20	30	25	128	57	22	M16	P309	4.30
UCP309-27	42.862	1-11/16	UC309-27													
UCP309-28	44.450	1-3/4	UC309-28													
UCP309	45		UC309													
UCP310-29	46.038	1-13/16	UC310-29	75	275	212	75	20	35	28	143	61	22	M16	P310	5.80
UCP310-30	47.625	1-7/8	UC310-30													
UCP310-31	49.212	1-15/16	UC310-31													
UCP310	50		UC310													
UCP310-32	50.800	2	UC310-32													
UCP311-32	50.800	2	UC311-32	80	310	236	80	20	38	31	154	66	25	M16	P311	7.40
UCP311-33	52.388	2-1/16	UC311-33													
UCP311-34	53.975	2-1/8	UC311-34													
UCP311	55		UC311													
UCP311-35	55.562	2-3/16	UC311-35													
UCP312-36	57.150	2-1/4	UC312-36	85	330	250	85	25	38	33	165	71	26	M20	P312	9.10
UCP312-37	58.738	2-5/16	UC312-37													
UCP312	60		UC312													
UCP312-38	60.325	2-3/8	UC312-38													
UCP313-39	61.912	2-7/16	UC313-39	90	340	260	90	25	38	36	174	75	30	M20	P313	10.20
UCP313-40	63.500	2-1/2	UC313-40													
UCP313	65		UC313													
UCP314-42	66.675	2-5/8	UC314-42	95	360	280	90	27	40	40	186	78	33	M22	P314	12.50
UCP314-43	68.262	2-11/16	UC314-43													
UCP314-44	69.850	2-3/4	UC314-44													
UCP314	70		UC314													
UCP315-45	71.438	2-13/16	UC315-45	100	380	290	100	27	40	40	197	82	32	M22	P315	14.60
UCP315-46	73.025	2-7/8	UC315-46													
UCP315-47	74.612	2-15/16	UC315-47													
UCP315	75		UC315													
UCP315-48	76.200	3	UC315-48													
UCP316-50	79.375	3-1/8	UC316-50	106	400	300	110	27	40	45	209	86	34	M22	P316	18.10
UCP316	80		UC316													
UCP316-51	80.962	3-3/16	UC316-51													
UCP317-52	82.550	3-1/4	UC317-52	112	420	320	110	33	45	45	221	96	40	M27	P317	21.00
UCP317	85		UC317													
UCP318-55	87.312	3-7/16	UC318-55	118	430	330	110	33	45	50	233	96	40	M27	P318	23.00
UCP318-56	88.900	3-1/2	UC318-56													
UCP318	90		UC318													
UCP319	95		UC319	125	470	360	120	36	50	50	250	103	41	M30	P319	29.00
UCP319-60	95.250	3-3/4	UC319-60													
UCP320	100		UC320	140	490	380	120	36	50	55	275	108	42	M30	P320	36.00
UCP320-63	100.012	3-15/16	UC320-63													
UCP320-64	101.600	4	UC320-64													

Note: To obtain the shaft diameter in fractions, the second figure in the above unit numbers is the diameter in sixteenths of an inch.
Example: For Unit No UCP306-18, the shaft dia is 1-1/8 inches.

BALL BEARING UNITS

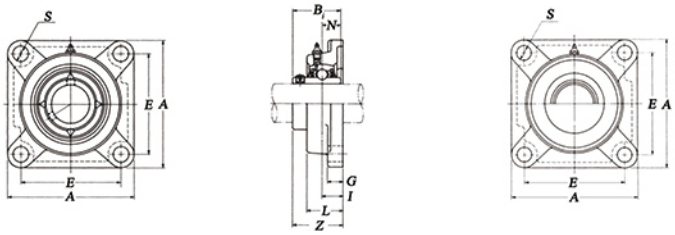
Flanged- 4 Bolt Square Cast Iron UCF 200



Unit No.	Shaft Diameter		Bearing No.	Dimensions in mm									Bolt	Housing No.	Approx
	inch	mm		A	E	I	G	L	S	Z	Bi	N	Size mm		Wt. Kg
UCF201	12		UC201	86	64	15	12	25.5	12	33.3	31.0	12.7	M10	F204	0.67
UCF201-08	12.700	1/2	UC201-08												
UCF202-09	14.288	9/16	UC202-09	86	64	15	12	25.5	12	33.3	31.0	12.7	M10	F204	0.66
UCF202	15		UC202												
UCF202-10	15.875	5/8	UC202-10												
UCF203	17		UC203	86	64	15	12	25.5	12	33.3	31.0	12.7	M10	F204	0.64
UCF203-11	17.462	11/16	UC203-11												
UCF204-12	19.050	3/4	UC204-12	86	64	15	12	25.5	12	33.3	31.0	12.7	M10	F204	0.62
UCF204	20		UC204												
UCF205-13	20.638	13/16	UC205-13	95	70	16	14	27.0	12	35.7	34.0	14.3	M10	F205	0.85
UCF205-14	22.225	7/8	UC205-14												
UCF205-15	23.812	15/16	UC205-15												
UCF205	25		UC205												
UCF205-16	25.400	1	UC205-16												
UCF206-17	26.988	1-1/16	UC206-17	108	83	18	14	31.0	12	40.2	38.1	15.9	M10	F206	1.14
UCF206-18	28.575	1-1/8	UC206-18												
UCF206	30		UC206												
UCF206-19	30.162	1-3/16	UC206-19												
UCF206-20	31.750	1-1/4	UC206-20												
UCF207-20	31.750	1-1/4	UC207-20	117	92	19	16	34.0	14	44.4	42.9	17.5	M12	F207	1.47
UCF207-21	33.338	1-5/16	UC207-21												
UCF207-22	34.925	1-3/8	UC207-22												
UCF207	35		UC207												
UCF207-23	36.512	1-7/16	UC207-23												
UCF208-23	36.512	1-7/16	UC208-23	130	102	21	16	36.0	16	51.2	49.2	19	M14	F208	2.10
UCF208-24	38.100	1-1/2	UC208-24												
UCF208-25	39.688	1-9/16	UC208-25												
UCF208	40		UC208												
UCF209-26	41.275	1-5/8	UC209-26	137	105	22	18	38.0	16	52.2	49.2	19.0	M14	F209	2.50
UCF209-27	42.862	1-11/16	UC209-27												
UCF209-28	44.450	1-3/4	UC209-28												
UCF209	45		UC209												
UCF210-29	46.038	1-13/16	UC210-29	143	111	22	18	40.0	16	54.6	51.6	19.0	M14	F210	2.60
UCF210-30	47.625	1-7/8	UC210-30												
UCF210-31	49.212	1-15/16	UC210-31												
UCF210	50		UC210												
UCF210-32	50.800	2	UC210-32												
UCF211-32	50.800	2	UC211-32	162	130	25	20	43.0	19	58.4	55.6	22.2	M16	F211	3.60
UCF211-33	52.388	2-1/16	UC211-33												
UCF211-34	53.975	2-1/8	UC211-34												
UCF211	55		UC211												
UCF211-35	55.562	2-3/16	UC211-35												
UCF212-36	57.150	2-1/4	UC212-36	175	143	29	20	48.0	19	68.7	65.1	25.4	M16	F212	4.90
UCF212-37	58.738	2-5/16	UC212-37												
UCF212	60		UC212												
UCF212-38	60.325	2-3/8	UC212-38												
UCF213-39	61.912	2-7/16	UC213-39	187	149	30	20	50.0	19	69.7	65.1	25.4	M16	F213	5.90
UCF213-40	63.500	2-1/2	UC213-40												
UCF213	65.000		UC213												
UCF214-42	66.675	2-5/8	UC214-42	193	152	31	24	54.0	19	75.4	74.6	30.2	M16	F214	6.70
UCF214-43	68.262	2-11/16	UC214-43												
UCF214-44	69.850	2-3/4	UC214-44												
UCF214	70		UC214												
UCF215-45	71.438	2-13/16	UC215-45	200	159	34	24	56.0	19	78.5	77.8	33.3	M16	F215	7.70
UCF215-46	73.025	2-7/8	UC215-46												
UCF215-47	74.612	2-15/16	UC215-47												
UCF215	75		UC215												
UCF215-48	76.200	3	UC215-48												
UCF215-50	79.375	3-1/8	UC215-50												
UCF216	80		UC216	208	165	34	24	58.0	23	83.3	82.6	33.3	M20	F216	8.20
UCF216-51	80.962	3-3/16	UC216-51												
UCF217-52	82.550	3-1/4	UC217-52	220	175	36	26	63.0	23	87.6	85.7	34.1	M20	F217	9.80
UCF217	85		UC217												
UCF218-55	87.312	3-7/16	UC218-55	235	187	40	26	63.0	23	96.3	96.0	39.7	M20	F218	12.20
UCF218-56	88.900	3-1/2	UC218-56												
UCF218	90		UC218												

BALL BEARING UNITS

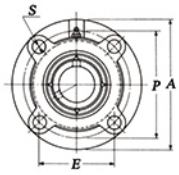
Flanged- 4 Bolt Square Cast Iron UCF 300

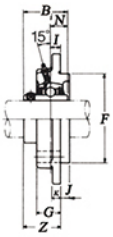


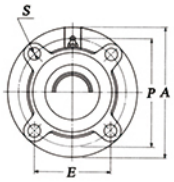
Unit No.	Shaft Diameter		Bearing No.	Dimensions in mm									Bolt	Housing No.	Approx
	inch	mm		A	E	I	G	I	S	Z	Bi	N	Size mm		Wt. Kg
UCF305-13	20.638	13/16	UC305-13	110	80	16	13	29	16	39	38	15	M14	F305	1.15
UCF305-14	22.225	7/8	UC305-14												
UCF305-15	23.812	15/16	UC305-16												
UCF305	25		UC305												
UCF305-16	25.400	1	UC305-16												
UCF306-17	26.988	1-1/16	UC306-17	125	95	18	15	32	16	44	43	17	M14	F306	1.64
UCF306-18	28.575	1-1/8	UC306-18												
UCF306	30		UC306												
UCF306-19	30.162	1-3/16	UC306-19												
UCF306-20	31.750	1-1/4	UC306-20												
UCF307-20	31.750	1-1/4	UC307-20	135	100	20	16	36	19	49	48	19	M16	F307	2.20
UCF307-21	33.338	1-5/16	UC307-21												
UCF307-22	34.925	1-3/8	UC307-22												
UCF307	35		UC307												
UCF307-23	36.512	1-7/16	UC307-23												
UCF308-23	36.512	1-7/16	UC308-23	150	112	23	17	40	19	56	52	19	M16	F308	2.90
UCF308-24	38.100	1-1/2	UC308-24												
UCF308-25	39.688	1-9/16	UC308-25												
UCF308	40		UC308												
UCF309-26	41.275	1-5/8	UC309-26	160	125	25	18	44	19	60	57	22	M16	F309	3.70
UCF309-27	42.862	1-11/16	UC309-27												
UCF309-28	44.450	1-3/4	UC309-28												
UCF309	45		UC309												
UCF310-29	46.038	1-13/16	UC310-29	175	132	28	19	48	23	67	61	22	M20	F310	4.70
UCF310-30	47.625	1-7/8	UC310-30												
UCF310-31	49.212	1-15/16	UC310-31												
UCF310	50		UC310												
UCF310-32	50.800	2	UC310-32												
UCF311-32	50.800	2	UC311-32	185	140	30	20	52	23	71	66	25	M20	F311	5.80
UCF311-33	52.388	2-1/16	UC311-33												
UCF311-34	53.975	2-1/8	UC311-34												
UCF311	55		UC311												
UCF311-35	55.562	2-3/16	UC311-35												
UCF312-36	57.150	2-1/4	UC312-36	195	150	33	22	56	23	78	71	26	M20	F312	7.60
UCF312-37	58.738	2-5/16	UC312-37												
UCF312	60		UC312												
UCF312-38	60.325	2-3/8	UC312-38												
UCF313-39	61.912	2-7/16	UC313-39	208	166	33	22	58	23	78	75	30	M20	F313	8.30
UCF313-40	63.500	2-1/2	UC313-40												
UCF313	65		UC313												
UCF314-42	66.675	2-5/8	UC314-42	226	178	36	25	61	25	81	78	33	M22	F314	9.90
UCF314-43	68.262	2-11/16	UC314-43												
UCF314-44	69.850	2-3/4	UC314-44												
UCF314	70		UC314												
UCF315-45	71.438	2-13/16	UC315-45	236	184	39	25	66	25	89	82	32	M22	F315	11.20
UCF315-46	73.025	2-7/8	UC315-46												
UCF315-47	74.612	2-15/16	UC315-47												
UCF315	75		UC315												
UCF315-48	76.200	3	UC315-48												
UCF316-50	79.375	3-1/8	UC316-50	250	196	38	27	68	31	90	86	34	M27	F316	13.60
UCF316	80		UC316												
UCF316-51	80.962	3-3/16	UC316-51												
UCF317-52	82.550	3-1/4	UC317-52	260	204	44	27	74	31	100	96	40	M27	F317	15.80
UCF317	85		UC317												
UCF318-55	87.312	3-7/16	UC318-55	280	216	44	30	76	35	100	96	40	M30	F318	20.00
UCF318-56	88.900	3-1/2	UC318-56												
UCF318	90		UC318												
UCF319	95		UC319	290	228	59	30	94	35	121	103	41	M30	F319	22.00
UCF319-60	95.250	3-3/4	UC319-60												
UCF320	100		UC320	310	242	59	32	94	38	125	108	42	M33	F320	27.00
UCF320-63	100.012	3-15/16	UC320-63												
UCF320-64	101.600	4	UC320-64												
UCF321	105		UC321	310	242	59	32	94	38	127	112	44	M33	F321	28.00
UCF322	110		UC322	340	266	60	35	96	41	131	117	46	M36	F322	37.00
UCF324	120		UC324	370	290	65	40	110	41	140	126	51	M36	F324	50.00
UCF326	130		UC326	410	320	65	45	115	41	146	135	54	M36	F326	65.00
UCF328	140		UC328	450	350	75	55	125	41	161	145	59	M36	F328	86.00

BALL BEARING UNITS

Flanged- 4 Bolt Round Cast Iron UCFC 200



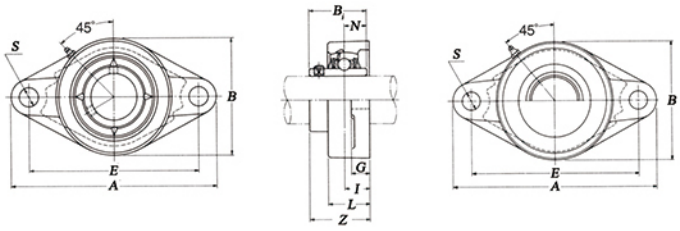




Unit No.	Shaft Diameter		Bearing No.	Dimensions in mm												Bolt	Housing No.	Approx
	inch	mm		A	P	E	I	S	J	K	G	F	Z	Bi	N	Size mm		Wt. Kg
UCFC201	12		UC201	100	78	55.1	10	12	5	7	20.5	62	28.3	31.0	12.7	M10	FC204	0.73
UCFC201-08	12.700	1/2	UC201-08															
UCFC202-09	14.288	9/16	UC202-09	100	78	55.1	10	12	5	7	20.5	62	28.3	31.0	12.7	M10	FC204	0.71
UCFC202	15		UC202															
UCFC202-10	15.875	5/8	UC202-10															
UCFC203	17		UC203	100	78	55.1	10	12	5	7	20.5	62	28.3	31.0	12.7	M10	FC204	0.70
UCFC203-11	17.462	11/16	UC203-11															
UCFC204-12	19.050	3/4	UC204-12	100	78	55.1	10	12	5	7	20.5	62	28.3	31.0	12.7	M10	FC204	0.68
UCFC204	20		UC204															
UCFC205-13	20.638	13/16	UC205-13	115	90	63.6	10	12	6	7	21.0	70	29.7	34.0	14.3	M10	FC205	0.94
UCFC205-14	22.225	7/8	UC205-14															
UCFC205-15	23.812	15/16	UC205-15															
UCFC205	25		UC205															
UCFC205-16	25.400	1	UC205-16															
UCFC206-17	26.988	1-1/16	UC206-17	125	100	70.7	10	12	8	8	23.0	80	32.2	38.1	15.9	M10	FC206	1.23
UCFC206-18	28.575	1-1/8	UC206-18															
UCFC206	30		UC206															
UCFC206-19	30.162	1-3/16	UC206-19															
UCFC206-20	31.750	1-1/4	UC206-20															
UCFC207-20	31.750	1-1/4	UC207-20	135	110	77.8	11	14	8	9	26.0	90	36.4	42.9	17.5	M12	FC207	1.58
UCFC207-21	33.338	1-5/16	UC207-21															
UCFC207-22	34.925	1-3/8	UC207-22															
UCFC207	35		UC207															
UCFC207-23	36.512	1-7/16	UC207-23															
UCFC208-23	36.512	1-7/16	UC208-23	145	120	84.8	11	14	10	9	26.0	100	41.2	49.2	19.0	M12	FC208	1.92
UCFC208-24	38.100	1-1/2	UC208-24															
UCFC208-25	39.688	1-9/16	UC208-25															
UCFC208	40		UC208															
UCFC209-26	41.275	1-5/8	UC209-26	160	132	93.3	10	16	12	14	26.0	105	40.2	49.2	19.0	M14	FC209	2.70
UCFC209-27	42.862	1-11/16	UC209-27															
UCFC209-28	44.450	1-3/4	UC209-28															
UCFC209	45		UC209															
UCFC210-29	46.038	1-13/16	UC210-29	165	138	97.6	10	16	12	14	28.0	110	42.6	51.6	19.0	M14	FC210	2.80
UCFC210-30	47.625	1-7/8	UC210-30															
UCFC210-31	49.212	1-15/16	UC210-31															
UCFC210	50		UC210															
UCFC210-32	50.800	2	UC210-32															
UCFC211-32	50.800	2	UC211-32	185	150	106.1	13	19	12	15	31.0	125	46.4	55.6	22.2	M16	FC211	3.90
UCFC211-33	52.388	2-1/16	UC211-33															
UCFC211-34	53.975	2-1/8	UC211-34															
UCFC211	55		UC211															
UCFC211-35	55.562	2-3/16	UC211-35															
UCFC212-36	57.150	2-1/4	UC212-36	195	160	113.1	17	19	12	15	36.0	135	56.7	65.1	25.4	M16	FC212	4.90
UCFC212-37	58.738	2-5/16	UC212-37															
UCFC212	60		UC212															
UCFC212-38	60.325	2-3/8	UC212-38															
UCFC213-39	61.912	2-7/16	UC213-39	205	170	120.2	16	19	14	15	36.0	145	55.7	65.1	25.4	M16	FC213	5.50
UCFC213-40	63.500	2-1/2	UC213-40															
UCFC213	65		UC213															
UCFC214-42	66.675	2-5/8	UC214-42	215	177	125.1	17	19	14	18	40.0	150	61.4	74.6	30.2	M16	FC214	7.00
UCFC214-43	68.262	2-11/16	UC214-43															
UCFC214-44	69.850	2-3/4	UC214-44															
UCFC214	70		UC214															
UCFC215-45	71.438	2-13/16	UC215-45	220	184	130.1	18	19	16	18	40.0	160	62.5	77.8	33.3	M16	FC215	7.50
UCFC215-46	73.025	2-7/8	UC215-46															
UCFC215-47	74.612	2-15/16	UC215-47															
UCFC215	75		UC215															
UCFC215-48	76.200	3	UC215-48															
UCFC216-50	79.375	3-1/8	UC216-50	240	200	141.4	18	23	16	18	42.0	170	67.3	82.6	33.3	M20	FC216	8.80
UCFC216	80		UC216															
UCFC216-51	80.962	3-3/16	UC216-51															
UCFC217-52	82.550	3-1/4	UC217-52	250	208	147.1	18	23	18	20	45.0	180	69.6	85.7	34.1	M20	FC217	10.80
UCFC217	85		UC217															
UCFC218-55	87.312	3-7/16	UC218-55	265	220	155.5	22	23	18	20	50.0	190	78.3	96.0	39.7	M20	FC218	13.00
UCFC218-56	88.900	3-1/2	UC218-56															
UCFC218	90		UC218															

BALL BEARING UNITS

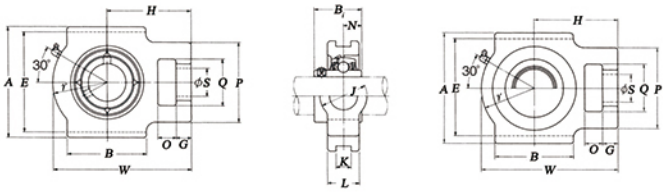
Flanged- 2 Bolt Hole
Cast Iron UCFL 200



Unit No.	Shaft Diameter		Bearing No.	Dimensions in mm										Bolt	Housing No.	Approx
	inch	mm		A	E	I	G	L	S	B	Z	Bi	N	Size mm		Wt. Kg
UCFL201	12		UC201	113	90	15	12	25.5	12	60	33.3	31	12.7	M10	FL204	0.51
UCFL201-08	12.700	1/2	UC201-08													
UCFL202-09	14.288	9/16	UC202-09	113	90	15	12	25.5	12	60	33.3	31	12.7	M10	FL204	0.49
UCFL202	15		UC202													
UCFL202-10	15.875	5/8	UC202-10													
UCFL203	17		UC203	113	90	15	12	25.5	12	60	33.3	31	12.7	M10	FL204	0.48
UCFL203-11	17.462	11/16	UC203-11													
UCFL204-12	19.050	3/4	UC204-12	113	90	15	12	25.5	12	60	33.3	31	12.7	M10	FL204	0.46
UCFL204	20		UC204													
UCFL205-13	20.638	13/16	UC205-13	130	99	16	14	27	16	68	35.7	34	14.3	M14	FL205	0.65
UCFL205-14	22.225	7/8	UC205-14													
UCFL205-15	23.812	15/16	UC205-15													
UCFL205	25		UC205													
UCFL205-16	25.400	1	UC205-16													
UCFL206-17	26.988	1-1/16	UC206-17	148	117	18	14	31	16	80	40.2	38.1	15.9	M14	FL206	0.95
UCFL206-18	28.575	1-1/8	UC206-18													
UCFL206	30		UC206													
UCFL206-19	30.162	1-3/16	UC206-19													
UCFL206-20	31.750	1-1/4	UC206-20													
UCFL207-20	31.750	1-1/4	UC207-20	161	130	19	16	34	16	90	44.4	42.9	17.5	M14	FL207	1.32
UCFL207-21	33.338	1-5/16	UC207-21													
UCFL207-22	34.925	1-3/8	UC207-22													
UCFL207	35		UC207													
UCFL207-23	36.512	1-7/16	UC207-23													
UCFL208-23	36.512	1-7/16	UC208-23	175	144	21	16	36	16	100	51.2	49.2	19	M14	FL208	1.74
UCFL208-24	38.100	1-1/2	UC208-24													
UCFL208-25	39.688	1-9/16	UC208-25													
UCFL208	40		UC208													
UCFL209-26	41.275	1-5/8	UC209-26	188	148	22	18	38	19	108	52.2	49.2	19	M16	FL209	2.20
UCFL209-27	42.862	1-11/16	UC209-27													
UCFL209-28	44.450	1-3/4	UC209-28													
UCFL209	45		UC209													
UCFL210-29	46.038	1-13/16	UC210-29	197	157	22	18	40	19	115	54.6	51.6	19	M16	FL210	2.40
UCFL210-30	47.625	1-7/8	UC210-30													
UCFL210-31	49.212	1-15/16	UC210-31													
UCFL210	50		UC210													
UCFL210-32	50.800	2	UC210-32													
UCFL211-32	50.800	2	UC211-32	224	184	25	20	43	19	130	58.4	55.6	22.2	M16	FL211	3.40
UCFL211-33	52.388	2-1/16	UC211-33													
UCFL211-34	53.975	2-1/8	UC211-34													
UCFL211	55		UC211													
UCFL211-35	55.562	2-3/16	UC211-35													
UCFL212-36	57.150	2-1/4	UC212-36	250	202	29	20	48	23	140	68.7	65.1	25.4	M20	FL212	4.40
UCFL212-37	58.738	2-5/16	UC212-37													
UCFL212	60		UC212													
UCFL212-38	60.325	2-3/8	UC212-38													
UCFL213-39	61.912	2-7/16	UC213-39	258	210	30	24	50	23	155	69.7	65.1	25.4	M20	FL213	5.50
UCFL213-40	63.500	2-1/2	UC213-40													
UCFL213	65		UC213													
UCFL214-42	66.675	2-5/8	UC214-42	265	216	31	24	54	23	160	75.4	74.6	30.2	M20	FL214	6.50
UCFL214-43	68.262	2-11/16	UC214-43													
UCFL214-44	69.850	2-3/4	UC214-44													
UCFL214	70		UC214													
UCFL215-45	71.438	2-13/16	UC215-45	275	225	34	24	56	23	165	78.5	77.8	33.3	M20	FL215	6.90
UCFL215-46	73.025	2-7/8	UC215-46													
UCFL215-47	74.612	2-15/16	UC215-47													
UCFL215	75		UC215													
UCFL215-48	76.200	3	UC215-48													
UCFL216-50	79.375	3-1/8	UC216-50	290	233	34	24	58	25	180	83.3	82.6	33.3	M22	FL216	8.40
UCFL216	80		UC216													
UCFL216-51	80.962	3-3/16	UC216-51													
UCFL217-52	82.550	3-1/4	UC217-52	305	248	36	26	63	25	190	87.6	85.7	34.1	M22	FL217	10.10
UCFL217	85		UC217													
UCFL218-55	87.312	3-7/16	UC218-55	320	265	40	26	68	25	205	96.3	96	39.7	M22	FL218	12.50
UCFL218-56	88.900	3-1/2	UC218-56													
UCFL218	90		UC218													

BALL BEARING UNITS

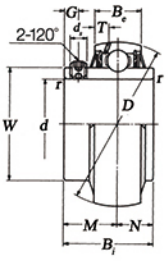
Take Up - Cast Iron UCT 200



Unit No.	Shaft Diameter		Bearing No.	Dimensions in mm														
	inch	mm		O	G	P	Q	S	B	K	E	A	W	J	L	H	Bi	N
UCT201	12		UC201	16	10	51	32	19	51	12	76	89	94	32	21	61	31.0	12.7
UCT201-08	12.700	1/2	UC201-08															
UCT202-09	14.288	9/16	UC202-09	16	10	51	32	19	51	12	76	89	94	32	21	61	31.0	12.7
UCT202	15		UC202															
UCT202-10	15.875	5/8	UC202-10															
UCT203	17		UC203	16	10	51	32	19	51	12	76	89	94	32	21	61	31.0	12.7
UCT203-11	17.462	11/16	UC203-11															
UCT204-12	19.050	3/4	UC204-12	16	10	51	32	19	51	12	76	89	94	32	21	61	31.0	12.7
UCT204	20		UC204															
UCT205-13	20.638	13/16	UC205-13	16	10	51	32	19	51	12	76	89	97	32	24	62	34.0	14.3
UCT205-14	22.225	7/8	UC205-14															
UCT205-15	23.812	15/16	UC205-15															
UCT205	25		UC205															
UCT205-16	25.400	1	UC205-16															
UCT206-17	26.988	1-1/16	UC206-17	16	10	56	37	22	57	12	89	102	113	37	28	70	38.1	15.9
UCT206-18	28.575	1-1/8	UC206-18															
UCT206	30		UC206															
UCT206-19	30.162	1-3/16	UC206-19															
UCT206-20	31.750	1-1/4	UC206-20															
UCT207-20	31.750	1-1/4	UC207-20	16	13	64	37	22	64	12	89	102	129	37	30	78	42.9	17.5
UCT207-21	33.338	1-5/16	UC207-21															
UCT207-22	34.925	1-3/8	UC207-22															
UCT207	35		UC207															
UCT207-23	36.512	1-7/16	UC207-23															
UCT208-23	36.512	1-7/16	UC208-23	19	16	83	49	29	83	16	102	114	144	49	33	88	49.2	19.0
UCT208-24	38.100	1-1/2	UC208-24															
UCT208-25	39.688	1-9/16	UC208-25															
UCT208	40		UC208															
UCT209-26	41.275	1-5/8	UC209-26	19	16	83	49	29	83	16	102	117	144	49	35	87	49.2	19.0
UCT209-27	42.862	1-11/16	UC209-27															
UCT209-28	44.450	1-3/4	UC209-28															
UCT209	45		UC209															
UCT210-29	46.038	1-13/16	UC210-29	19	16	83	49	29	86	16	102	117	149	49	37	90	51.6	19.0
UCT210-30	47.625	1-7/8	UC210-30															
UCT210-31	49.212	1-15/16	UC210-31															
UCT210	50		UC210															
UCT210-32	50.800	2	UC210-32															
UCT211-32	50.800	2	UC211-32	25	19	102	64	35	95	22	130	146	171	64	38	106	55.6	22.2
UCT211-33	52.388	2-1/16	UC211-33															
UCT211-34	53.975	2-1/8	UC211-34															
UCT211	55		UC211															
UCT211-35	55.562	2-3/16	UC211-35															
UCT212-36	57.150	2-1/4	UC212-36	32	19	102	64	35	102	22	130	146	194	64	42	119	65.1	25.4
UCT212-37	58.738	2-5/16	UC212-37															
UCT212	60		UC212															
UCT212-38	60.325	2-3/8	UC212-38															
UCT213-39	61.912	2-7/16	UC213-39	32	21	111	70	41	121	26	151	167	224	70	44	137	65.1	25.4
UCT213-40	63.500	2-1/2	UC213-40															
UCT213	65		UC213															
UCT214-42	66.675	2-5/8	UC214-42	32	21	111	70	41	121	26	151	167	224	70	46	137	74.6	30.2
UCT214-43	68.262	2-11/16	UC214-43															
UCT214-44	69.850	2-3/4	UC214-44															
UCT214	70		UC214															
UCT215-45	71.438	2-13/16	UC215-45	32	21	111	70	41	121	26	151	167	232	70	48	140	77.8	33.3
UCT215-46	73.025	2-7/8	UC215-46															
UCT215-47	74.612	2-15/16	UC215-47															
UCT215	75		UC215															
UCT215-48	76.200	3	UC215-48															
UCT216-50	79.375	3-1/8	UC216-50	32	21	111	70	41	121	26	165	184	235	70	51	140	82.6	33.3
UCT216	80		UC216															
UCT217-52	82.550	3-1/4	UC217-52	38	29	124	73	48	157	30	173	198	260	73	54	162	85.7	34.1
UCT217	85		UC217															

BALL BEARING UNITS

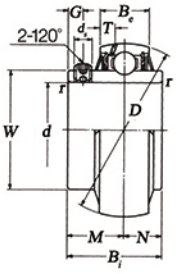
Inserts: Spherical O/D UC200



Bearing Number	Bore Diameter		Dimensions in mm							Basic Load Ratings		Wt
	mm	inch	A	E	I	G	L	S	B	Dyn C	Stat C_o	Kg
UC201	12.000		47	31	17	12.7	18.3	4.5	M6x0.75	1300	635	0.20
UC201-08	12.700	1/2										0.20
UC202-09	14.288	9/16	47	31	17	12.7	18.3	4.5	M6x0.75	1300	635	0.19
UC202	15											0.19
UC202-10	15.875	5/8										0.18
UC203	17.000		47	31	17	12.7	18.3	4.5	M6x0.75	1300	635	0.18
UC203-11	17.462	11/16										0.17
UC204-12	19.050	3/4	47	31	17	12.7	18.3	4.5	M6x0.75	1300	635	0.16
UC204	20											0.16
UC205-13	20.638	13/16	52	34	17	14.3	19.7	5.0	M6x0.75	1430	730	0.24
UC205-14	22.225	7/8										0.22
UC205-15	23.812	15/16										0.21
UC205	25.000											0.19
UC205-16	25.400	1										0.19
UC206-16	25.400	1	62	38.1	19	15.9	22.2	5.0	M6x0.75	1990	1050	0.37
UC206-17	26.988	1- 1/16										0.35
UC206-18	28.575	1- 1/8										0.33
UC206	30											0.31
UC206-19	30.162	1- 3/16										0.31
UC206-20	31.750	1- 1/4										0.29
UC207-21	33.338	1- 5/16	72	42.9	20	17.5	25.4	6.0	M8x1.00	2620	1430	0.50
UC207-22	34.925	1- 3/8										0.48
UC207	35.000											0.47
UC207-23	36.512	1- 7/16										0.44
UC208-23	36.512	1- 7/16	80	49.2	21	19.0	30.2	8.0	M8x1.00	2970	1650	0.71
UC208-24	38.100	1- 1/2										0.68
UC208-25	39.688	1- 9/16										0.64
UC208	40											0.63
UC209-26	41.275	1- 5/8	85	49.2	22	19.0	30.2	8.0	M8x1.00	3200	1850	0.79
UC209-27	42.862	1-11/16										0.75
UC209-28	44.450	1- 3/4										0.71
UC209	45.000											0.69
UC210-29	46.038	1-13/16	90	51.6	23	19	32.6	9.0	M10x1.25	3600	2100	0.89
UC210-30	47.625	1- 7/8										0.84
UC210-31	49.212	1-15/16										0.79
UC210	50											0.77
UC210-32	50.800	2										0.74
UC211-33	52.388	2- 1/16	100	55.6	24	22.2	33.4	9.0	M10x1.25	4450	2660	1.14
UC211-34	53.975	2- 1/8										1.08
UC211	55.000											1.04
UC211-35	55.562	2- 3/16										1.02
UC212-36	57.150	2- 1/4	110	65.1	27	25.4	39.7	10.0	M10x1.25	5350	3300	1.60
UC212-37	58.738	2- 5/16										1.53
UC212	60											1.47
UC212-38	60.325	2- 3/8										1.46
UC213-38	60.325	2- 3/8	120	65.1	28	25.4	39.7	10.0	M10x1.25	5850	3650	2.00
UC213-39	61.912	2- 7/16										1.93
UC213-40	63.500	2- 1/2										1.85
UC213	65.000											1.77
UC214-42	66.675	2- 5/8	125	74.6	29	30.2	44.4	12.0	M12x1.50	6350	4000	2.20
UC214-43	68.262	2-11/16										2.10
UC214-44	69.850	2- 3/4										2.00
UC214	70											2.00
UC215-45	71.438	2-13/16	130	77.8	30	33.3	44.5	12.0	M12x1.50	6750	4400	2.50
UC215-46	73.025	2- 7/8										2.40
UC215-47	74.612	2-15/16										2.30
UC215	75.000											2.30
UC215-48	76.200	3										2.20
UC216-50	79.375	3- 1/8	140	82.6	32	33.3	49.3	12.0	M12x1.50	7400	4750	2.80
UC216	80											2.70
UC216-51	80.962	3- 3/16										2.60
UC217-52	82.550	3- 1/4	150	85.7	34	34.1	51.6	12.0	M12x1.50	8550	5600	3.50
UC217	85											3.30
UC218-55	87.312	3- 7/16	160	96.0	36	39.7	56.3	12.0	M12x1.50	9800	6450	4.5
UC218-56	88.900	3- 1/2										4.3
UC218	90											4.2
UC221-63	100.012	3-15/16	190	117.5	42	49.2	68.3	16.0	M16x1.50	13600	9500	7.90
UC221-64	101.600	4										7.70

BALL BEARING UNITS

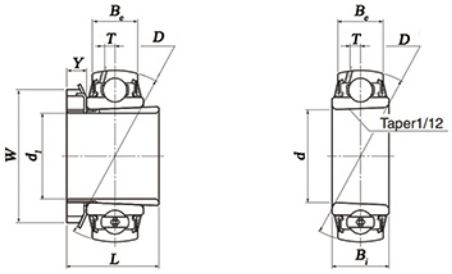
Inserts: Spherical O/D UC300



Bearing Number	Bore Diameter		Dimensions in mm							Basic Load Ratings		Wt
	mm	inch	D	B_i	B_e	N	M	G	d_s	Dyn C	Stat C_o	Kg
UC305-13	20.638	13/16	62	38	22	15	23	6	M6x0.75	2100	1080	0.42
UC305-14	22.225	7/8										0.40
UC305-15	23.812	15/16										0.38
UC305	25.000											0.37
UC305-16	25.400	1										0.36
UC306-17	26.988	1-1/16	72	43	24	17	26	6	M6x0.75	2720	1440	0.58
UC306-18	28.575	1-1/8										0.56
UC306	30											0.54
UC306-19	30.162	1-3/16										0.53
UC306-20	31.750	1-1/4										0.51
UC307-20	31.750	1-1/4	80	48	26	19	29	8	M8x1.00	3400	1840	0.77
UC307-21	33.338	1-5/16										0.74
UC307-22	34.925	1-3/8										0.71
UC307	35.000											0.71
UC307-23	36.512	1-7/16										0.68
UC308-23	36.512	1-7/16	90	52	28	19	33	10	M10x1.25	4150	2300	1.04
UC308-24	38.100	1-1/2										1.00
UC308-25	39.688	1-9/16										0.97
UC308	40											0.96
UC309-26	41.275	1-5/8	100	57	30	22	35	10	M10x1.25	5400	3100	1.39
UC309-27	42.862	1-11/16										1.35
UC309-28	44.450	1-3/4										1.30
UC309	45.000											1.28
UC310-29	46.038	1-13/16	110	61	32	22	39	12	M12x1.50	6300	3650	1.79
UC310-30	47.625	1-7/8										1.73
UC310-31	49.212	1-15/16										1.68
UC310	50											1.65
UC310-32	50.800	2										1.62
UC311-32	50.800	2	120	66	34	25	41	12	M12x1.50	7300	4300	2.20
UC311-33	52.388	2-1/16										2.20
UC311-34	53.975	2-1/8										2.20
UC311	55.000											2.10
UC311-35	55.562	2-3/16										2.00
UC312-36	57.150	2-1/4	130	71	36	26	45	12	M12x1.50	8350	5000	2.70
UC312-37	58.738	2-5/16										2.70
UC312	60											2.60
UC312-38	60.325	2-3/8										2.60
UC313-39	61.912	2-7/16	140	75	38	30	45	12	M12x1.50	9450	5750	3.30
UC313-40	63.500	2-1/2										3.20
UC313	65											3.20
UC314-42	66.675	2-5/8	150	78	40	33	45	12	M12x1.50	10600	6550	4
UC314-43	68.262	2-11/16										3.9
UC314-44	69.850	2-3/4										3.8
UC314	70											3.8
UC315-45	71.438	2-13/16	160	82	42	32	50	14	M14x1.50	11600	7400	4.80
UC315-46	73.025	2-7/8										4.70
UC315-47	74.612	2-15/16										4.50
UC315	75.000											4.50
UC315-48	76.200	3										4.40
UC316-50	79.375	3-1/8	170	86	44	34	52	14	M14x1.50	12500	8250	5.40
UC316	80											5.30
UC316-51	80.962	3-3/16										5.20
UC317-52	82.550	3-1/4	180	96	46	40	56	16	M16x1.50	13500	9200	6.70
UC317	85											6.40
UC318-55	87.312	3-7/16	190	96	48	40	56	16	M16x1.50	14500	10200	7.60
UC318-56	88.900	3-1/2										7.40
UC318	90											7.30
UC319	95		200	103	50	41	62	16	M16x1.50	15600	11300	8.50
UC319-60	95.250	3-3/4										8.50
UC320	100		215	108	54	42	66	18	M18x1.50	17700	13500	10.70
UC320-63	100.012	3-15/16										10.70
UC320-64	101.600	4										10.50
UC321	105		225	112	56	44	68	18	M18x1.50	18700	14700	12.00
UC322	110		240	117	60	46	71	18	M18x1.50	20900	17200	14.70
UC324	120		260	126	64	51	75	18	M18x1.50	21100	17400	18.90
UC326	130		280	135	68	54	81	20	M20x1.50	23400	20200	23.00
UC328	140		300	145	73	59	86	20	M20x1.50	25800	23200	28.00

BALL BEARING UNITS

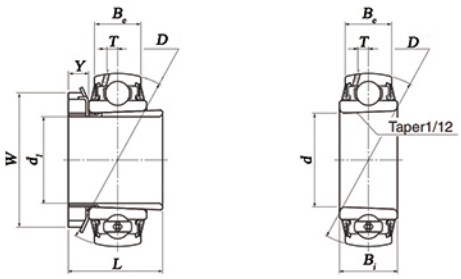
Inserts: Spherical O/D UK200



Bearing Number	Bore Diameter		Dimensions in mm				Basic Load Ratings		Wt	Adapter No.	Dimensions in mm		
	mm	inch	d	D	B_i	B_e	Dyn C	Stat C_o	Kg		L	Y	W
UK205	19.050	3/4	25	52	23	17	1430	730	0.15	HE2305	35	8	38
	20									H 2305			
UK206	22.225	7/8	30	62	26	19	1990	1050	0.26	HS2306	38	8	45
	23.812	15/16								HA2306			
	25									H2306			
	25.400	1								HE2306			
UK207	28.575	1-1/8	35	72	27	20	2620	1430	0.36	HS2307	43	9	52
	30									H 2307			
	30.162	1-3/16								HA2307			
UK208	31.750	1-1/4	40	80	29	21	2970	1650	0.47	HE2308	46	10	58
	34.925	1-3/8								HS2308			
	35									H2308			
UK209	36.512	1-7/16	45	85	30	22	3200	1850	0.52	HA2309	50	11	65
	38.100	1-1/2								HE2309			
	40									H 2309			
UK210	41.275	1-5/8	50	90	31	23	3600	2100	0.56	HS2310	55	12	70
	42.862	1-11/16								HA2310			
	44.450	1-3/4								HE2310			
	45									H2310			
UK211	47.625	1-7/8	55	100	33	24	4450	2660	0.77	HS2311	59	12	75
	49.212	1-15/16								HA2311			
	50									H 2311			
	50.800	2								HE2311			
UK212	53.975	2-1/8	60	110	36	27	5350	3300	1.01	HS2312	62	13	80
	55									H2312			
UK213	55.562	2-3/16	65	120	38	28	5850	3650	1.27	HA2313	65	14	85
	57.150	2-1/4								HE2313			
	60									H 2313			
	60.325	2-3/8								HS2313			
UK215	61.912	2-7/16	75	130	41	30	6750	4400	1.52	HA2315	73	15	98
	63.500	2-1/2								HE2315			
	65									H2315			
UK216	68.262	2-11/16	80	140	44	32	7400	4750	1.85	HA2316	78	17	105
	69.850	2-3/4								HE2316			
	70									H 2316			
UK217	74.612	2-15/16	85	150	46	34	8550	5600	2.3	HA2317	82	18	110
	75									H2317			
	76.200	3								HE2317			
UK218	79.375	3-1/8	90	160	49	36	9800	6450	3.10	HS2318	86	18	120
	80									H 2318			
	80.962	3-3/16								HA2318			

BALL BEARING UNITS

Inserts: Spherical O/D UK300



Bearing Number	Bore Diameter		Dimensions in mm				Basic Load Ratings		Wt	Adapter No.	Dimensions in mm		
	mm	inch	d	D	B_i	B_e	Dyn C	Stat C_o	Kg		L	Y	W
UK305	19.050	3/4	25	62	26	22	2100	1080	0.30	HE2305	35	8	38
	20									H 2305			
UK306	22.225	7/8	30	72	29	24	2720	1440	0.43	HS2306	38	8	45
	23.812	15/16								HA2306			
	25									H2306			
	25.400	1								HE2306			
UK307	28.575	1-1/8	35	80	31	26	3400	1840	0.56	HS2307	43	9	52
	30									H 2307			
	30.162	1-3/16								HA2307			
UK308	31.750	1-1/4	40	90	34	28	4150	2300	0.76	HE2308	46	10	58
	34.925	1-3/8								HS2308			
	35									H2308			
UK309	36.512	1-7/16	45	100	37	30	5400	3100	0.99	HA2309	50	11	65
	38.100	1-1/2								HE2309			
	40									H 2309			
UK310	41.275	1-5/8	50	110	40	32	6300	3650	1.28	HS2310	55	12	70
	42.862	1-11/16								HA2310			
	44.450	1-3/4								HE2310			
	45									H2310			
UK311	47.625	1-7/8	55	120	43	34	7300	4300	1.62	HS2311	59	12	75
	49.212	1-15/16								HA2311			
	50									H 2311			
	50.800	2								HE2311			
UK312	53.975	2-1/8	60	130	46	36	8350	5000	2.00	HS2312	62	13	80
	55									H2312			
UK313	55.562	2-3/16	65	140	48	38	9450	5750	2.5	HA2313	65	14	85
	57.150	2-1/4								HE2313			
	60									H 2313			
	60.325	2-3/8								HS2313			
UK315	61.912	2-7/16	75	160	54	42	11600	7400	3.6	HA2315	73	15	98
	63.500	2-1/2								HE2315			
	65									H2315			
UK316	68.262	2-11/16	80	170	57	44	12500	8250	4.2	HA2316	78	17	105
	69.850	2-3/4								HE2316			
	70									H 2316			
UK317	74.612	2-15/16	85	180	60	46	13500	9200	4.9	HA2317	82	18	110
	75									H2317			
	76.200	3								HE2317			
UK318	79.375	3-1/8	90	190	63	48	14500	10200	5.7	HS2318	86	18	120
	80									H 2318			
	80.962	3-3/16								HA2318			
UK319	82.550	3-1/4	95	200	66	50	15600	11300	6.4	HE2319	90	19	125
	85									H2319			
UK320	88.900	3-1/2	100	215	72	54	17700	13500	8.4	HE2320	97	20	130
	90									H 2320			
UK322	100		110	240	80	60	20900	17200	11.8	H2322	105	21	145
	101.600	3-15/16								HE2322			
UK324	110		120	260	86	64	21100	17400	15.2	H 2324	112	22	155
UK326	115		130	280	92	68	23400	20200	18.7	H2326	121	23	165
UK328	125		140	300	98	73	25800	23200	23.0	H 2328	131	24	180

NOTE

品质源于专业， 专业源于细节。

Quality from profession, profession from the details.

扫扫了解更多详情

上海晟悦轴承有限公司

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