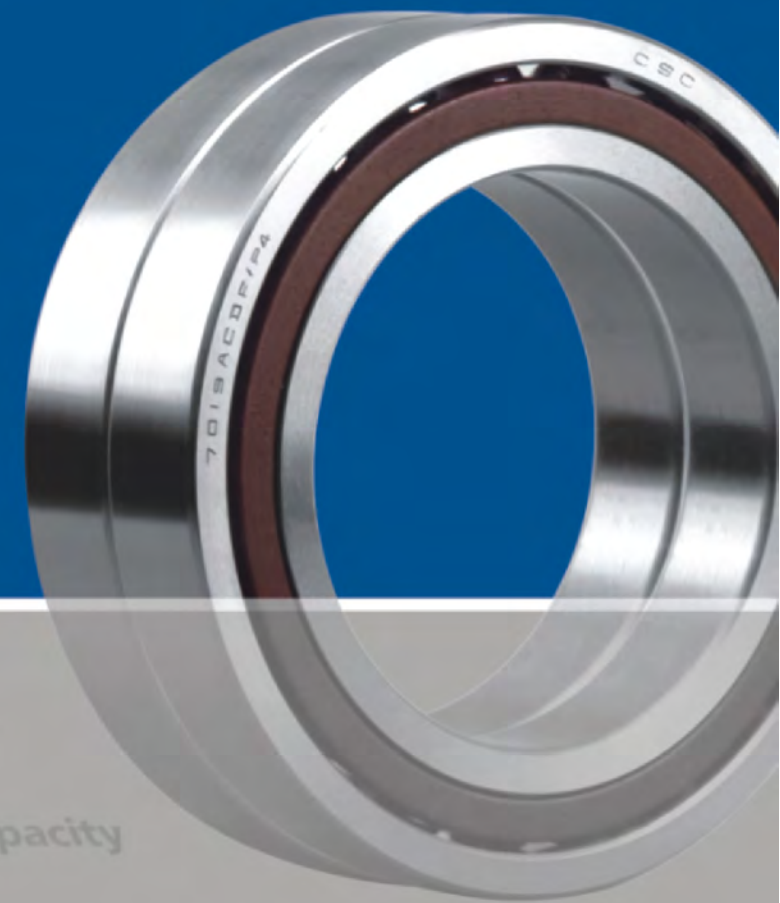


2017 / 2018

# CSC Bearings



**Sales Europe & Russia  
Engineering  
Warehouse EU**



CSC Bearing Europe GmbH  
Luitpoldstrasse 6  
D-97357 Prichsenstadt  
Germany

Email: [info@CSC-Bearing.eu](mailto:info@CSC-Bearing.eu)  
Web: [www.CSC-Bearing.eu](http://www.CSC-Bearing.eu)  
Telefon: +49 (0) 9383 873-9000  
Fax: +49 (0) 9383 873-9009

**Sales ASIA USA  
Production  
Warehouse ASIA**



CSC BEARING CO., LTD.  
Add: No. 30 Suzhou Road Changshu 215500, Jiangsu, China

E-mail: [csc-export@cscbearing.cn](mailto:csc-export@cscbearing.cn)  
<http://www.cscbearing.cn>  
Tel.: +86 512 5289 2599 / 5287 2559  
Fax: +86 512 5289 2165 / 5289 1116

*High accuracy*  
***Easy mounting***  
*High rigidity*

*High-speed capacity*

*High cost-effectiveness*

***Absolute operational security***

*Low friction  
Maintenance-free*

*Extended bearing service life* ***High load carrying capacity***



## Welcome to CSC Bearing

CSC is a global manufacturer of high quality bearings with over 50 years of successful corporate history. Almost 1000 employees producing bearings of the highest grade of quality according to European standards. Engineering "made in Germany" and state of the art production facilities guarantee high performance bearings for almost all fields of industry.

CSC has established as a reliable producer and supplier of highly developed bearings for world renowned manufacturers of drives, gearboxes, machine tool spindles, elevators and construction machines. Own offices and warehouses in China and Germany guarantee immediate response, quick support and fast delivery times.



Founded : 1969

Production area : 130.000m<sup>2</sup>

Employees : almost 1000

Turnover : About 80 Mio USD

Offices : China and Germany

Automatic Production Equipment:

33 Automatic Assembly Lines

67 Automatic Grinding Lines (ø up to 300mm)

81 CNC lathe and machine center

**CSC**  
BEARING CO., LTD.



**CSC**  
BEARING EUROPE GMBH





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Research and Development

CSC’s history of more that 60 years in bearing business is the result of continuous research and development. Using state of art technologies, constant quality improvement and a famous “made in germany” bearing design and engineering as a basis for reliable products.

We increase our CSC research and development activities every year to develop high end products made for the market needs.

Ongoing training and education together with German engineers in our European office, strategic partnerships with lead customers and close relationship to European and Asian Universities as well as to the famous Luoyang institute help us to develop products for the future.

As a result of all our efforts CSC becomes an award-winning supplier of many famous brands.

Investments

During the past years, CSC invested of 25 Mio USD in new technologies to produce bearings that are more precisely, more accurate and even more made to satisfy our customer’s needs.

Industry 4.0 at CSC: We working on “intelligent” bearings, improved materials and new technologies to be better and smarter for future demands.







*High accuracy*

**Easy mounting**

*High rigidity*

**Low friction**  
Maintenance-free

*High speed capacity*

*High cost-effectiveness*

**Absolute operational security**

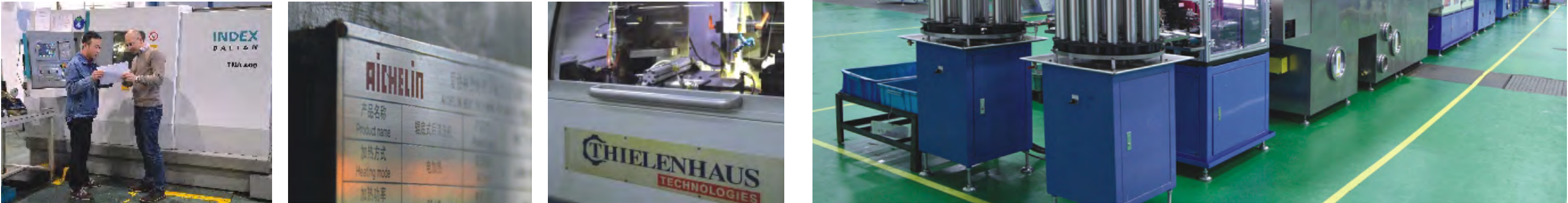
*Extended bearing service life* **High load carrying capacity**



Producing with state of the art machiners

A fundament of high quality products is high quality equipment. CSC uses well known machines to produce bearings. If you come to our CSC factory you will find production equipment from brands like Mahr, Thielenhaus, G&N, Aichelin and many more.

To produce faster and meet the market demand, CSC invested in over 30 full automatic production and assembly lines.







**Bearings  
for  
INDUSTRIAL ROBOT**



**Bearings  
for  
MACHINE TOOLS**



**Bearings  
for  
Printing machinery industry**



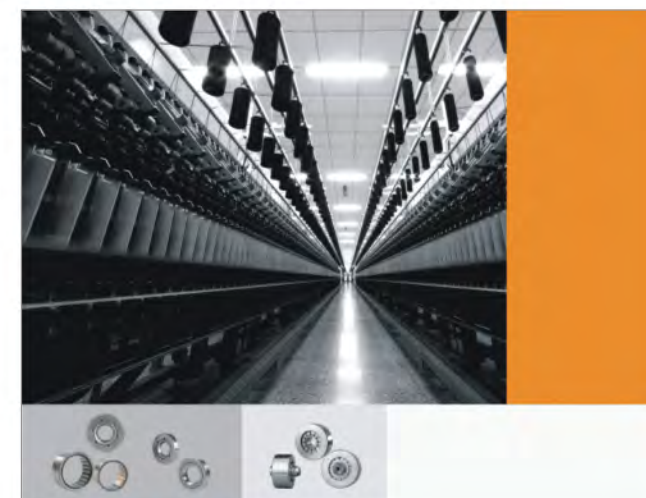
**Bearings  
for  
ELEVATOR TRACTION MACHINE**



**Bearings  
for  
ENGINEERING MACHINERY INDUSTRY**



**Bearings  
for  
LOGISTIC AND TRANSPORT**



**Bearings  
for  
WEAVING MACHINE**



**Bearings  
for  
AGRICULTURAL MACHINERY**



In our CSC laboratories, you will find high precision measuring instruments, such as Talyround roundness, 3D measuring, Talysurf figure instrument and a variety of rapidity and vibration testing instruments. Continuous measuring and ongoing quality control ensure that CSC provides high end products.

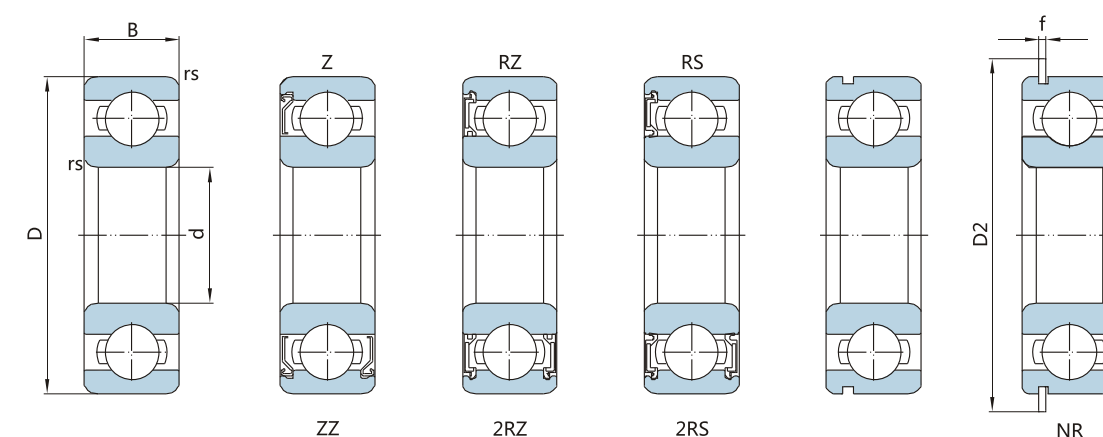


Starting from raw material CSC can do all necessary steps in-house. Turning on CNC machines such as Index, hardening the rings on Aichelin ovens and grinding on Thielenhaus or G&N machines.

The quantity of CSC turned rings is according to ISO and AS9100 standards and continuously controlled by our quality management system. CSC can provide a variety of high precision rings, aerospace and railway parts with complicated forms and surfaces from D30mm to D1000mm.







Bearing No.						Boundary Dimensions (mm)						Basic Load Rating (kN)		Weight (kg)
Standard type	Non-standard type					d	D	B	r <sub>s min</sub>	D2 (max)	f (max)	Cr	Cor	
	Shield	Seal		With snap ring groove	With snap ring									
6000	ZZ	2RZ	2RS	N	NR	10	26	8	0.3	29.2	0.7	4.55	1.97	0.018
6001	ZZ	2RZ	2RS	N	NR	12	28	8	0.3	30.8	0.85	5.00	2.30	0.021
6002	ZZ	2RZ	2RS	N	NR	15	32	9	0.3	36.7	1.12	5.50	2.80	0.030
6003	ZZ	2RZ	2RS	N	NR	17	35	10	0.3	39.7	1.12	6.00	3.25	0.040
6004	ZZ	2RZ	2RS	N	NR	20	42	12	0.6	46.3	1.12	9.38	5.03	0.068
6005	ZZ	2RZ	2RS	N	NR	25	47	12	0.6	52.7	1.12	10.1	5.83	0.079
6006	ZZ	2RZ	2RS	N	NR	30	55	13	1	60.7	1.12	13.2	8.30	0.113
6007	ZZ	2RZ	2RS	N	NR	35	62	14	1	67.7	1.7	16.2	10.4	0.149
6008	ZZ	2RZ	2RS	N	NR	40	68	15	1	74.6	1.7	17.0	11.7	0.185
6009	ZZ	2RZ	2RS	N	NR	45	75	16	1	81.6	1.7	21.0	14.8	0.231
6010	ZZ	2RZ	2RS	N	NR	50	80	16	1	86.6	1.7	22.0	16.3	0.250
6011	ZZ	2RZ	2RS	N	NR	55	90	18	1.1	96.5	2.46	30.3	22.0	0.362
6012	ZZ	2RZ	2RS	N	NR	60	95	18	1.1	101.6	2.46	31.7	24.2	0.385
6013	ZZ	2RZ	2RS	N	NR	65	100	18	1.1	106.5	2.46	32.0	24.8	0.430
6014	ZZ	2RZ	2RS	N	NR	70	110	20	1.1	116.6	2.46	38.6	30.4	0.569
6015	ZZ	2RZ	2RS	N	NR	75	115	20	1.1	121.6	2.46	40.2	33.2	0.603
6016	ZZ	2RZ	2RS	N	NR	80	125	22	1.1	134.7	2.82	47.5	39.8	0.821
6017	ZZ	2RZ	2RS	N	NR	85	130	22	1.1	139.7	2.82	50.8	42.8	0.848
6018	ZZ	2RZ	2RS	N	NR	90	140	24	1.5	149.7	2.82	58.0	49.9	1.12
6019	ZZ	2RZ	2RS	N	NR	95	145	24	1.5	154.7	2.82	57.7	50.0	1.18
6020	ZZ	2RZ	2RS	N	NR	100	150	24	1.5	159.7	2.82	60.5	54.0	1.25
6021	ZZ	2RZ	2RS	N	NR	105	160	26	2	169.7	2.82	72.8	65.5	1.60
6022	ZZ	2RZ	2RS	N	NR	110	170	28	2	182.9	3.1	81.9	72.9	1.93
6024	ZZ	2RZ	2RS	N	NR	120	180	28	2	192.9	3.1	87.7	79.3	2.03
6026	ZZ	2RZ	2RS	N	NR	130	200	33	2	212.9	3.1	105	96.8	3.15
6028	ZZ	2RZ	2RS	N	NR	140	210	33	2	222.8	3.1	111	108	3.35
6030	ZZ	2RZ	2RS	N	NR	150	225	35	2.1	237	3.5	125	125	4.80
6032	ZZ	2RZ	2RS	—	—	160	240	38	2.1	—	—	137	135	5.15
6034	ZZ	2RZ	2RS	—	—	170	260	42	2.1	—	—	161	161	6.89
6036	ZZ	2RZ	2RS	—	—	180	280	46	2.1	—	—	180	185	8.88
6038	ZZ	2RZ	2RS	—	—	190	290	46	2.1	—	—	188	201	9.39
6040	ZZ	2RZ	2RS	—	—	200	310	51	2.1	—	—	207	226	12
6044	ZZ	2RZ	2RS	—	—	220	340	56	3	—	—	235	271	18.6
6048	ZZ	2RZ	2RS	—	—	240	360	56	3	—	—	244	296	19.9
6052	ZZ	2RZ	2RS	—	—	260	400	65	4	—	—	291	375	29.4



DEEP GROOVE BALL BEARINGS

Bearing No.						Boundary Dimensions (mm)						Basic Load Rating (kN)		Weight (kg)
Standard type	Non-standard type					d	D	B	r <sub>s min</sub>	D2 (max)	f (max)	Cr	Cor	
	Shield	Seal		With snap ring groove	With snap ring									
6056	ZZ	2RZ	2RS	—	—	280	420	65	4	—	—	300	410	31.2
6060	ZZ	2RZ	2RS	—	—	300	460	74	4	—	—	355	500	44.2
6201	ZZ	2RZ	2RS	N	NR	12	32	10	0.6	36.7	1.12	6.00	2.70	0.036
6202	ZZ	2RZ	2RS	N	NR	15	35	11	0.6	39.7	1.12	7.80	3.75	0.045
6203	ZZ	2RZ	2RS	N	NR	17	40	12	0.6	44.6	1.12	9.56	4.75	0.065
6204	ZZ	2RZ	2RS	N	NR	20	47	14	1	52.7	1.12	12.7	6.55	0.103
6205	ZZ	2RZ	2RS	N	NR	25	52	15	1	57.9	1.12	14.0	7.80	0.127
6206	ZZ	2RZ	2RS	N	NR	30	62	16	1	67.7	1.7	19.5	11.2	0.203
6207	ZZ	2RZ	2RS	N	NR	35	72	17	1.1	78.6	1.7	25.5	15.3	0.287
6208	ZZ	2RZ	2RS	N	NR	40	80	18	1.1	86.6	1.7	30.7	19.0	0.367
6209	ZZ	2RZ	2RS	N	NR	45	85	19	1.1	91.6	1.7	33.2	21.6	0.416
6210	ZZ	2RZ	2RS	N	NR	50	90	20	1.1	96.5	2.46	35.1	23.2	0.462
6211	ZZ	2RZ	2RS	N	NR	55	100	21	1.5	106.5	2.46	43.4	29.2	0.607
6212	ZZ	2RZ	2RS	N	NR	60	110	22	1.5	116.6	2.46	47.5	32.5	0.783
6213	ZZ	2RZ	2RS	N	NR	65	120	23	1.5	129.7	2.82	55.9	40.5	0.990
6214	ZZ	2RZ	2RS	N	NR	70	125	24	1.5	134.7	2.82	60.5	45.0	1.10
6215	ZZ	2RZ	2RS	N	NR	75	130	25	1.5	139.7	2.82	66.3	49.0	1.20
6216	ZZ	2RZ	2RS	N	NR	80	140	26	2	149.7	2.82	70.2	55.0	1.40
6217	ZZ	2RZ	2RS	N	NR	85	150	28	2	159.7	2.82	83.2	64.0	1.80
6218	ZZ	2RZ	2RS	N	NR	90	160	30	2	169.7	2.82	95.6	73.5	2.15
6219	ZZ	2RZ	2RS	N	NR	95	170	32	2.1	182.9	3.1	108	81.5	2.60
6220	ZZ	2RZ	2RS	N	NR	100	180	34	2.1	192.9	3.1	122	92.7	3.20
6221	ZZ	2RZ	2RS	N	NR	105	190	36	2.1	202.9	3.1	133	104	3.71
6222	ZZ	2RZ	2RS	N	NR	110	200	38	2.1	212.9	3.1	144	117	4.44
6224	ZZ	2RZ	2RS	N	NR	120	215	40	2.1	227.8	3.1	155	130	5.32
6226	ZZ	2RZ	2RS	N	NR	130	230	40	3	242	3.5	165	147	6.13
6228	ZZ	2RZ	2RS	N	NR	140	250	42	3	262	3.5	165	125	7.45
6230	ZZ	2RZ	2RS	—	—	150	270	45	3	—	—	174	137	9.40
6232	ZZ	2RZ	2RS	—	—	160	290	68	3	—	—	185	186	12.8
6234	ZZ	2RZ	2RS	—	—	170	310	52	4	—	—	212	224	15.8
6236	ZZ	2RZ	2RS	—	—	180	320	52	4	—	—	227	241	15.9
6238	ZZ	2RZ	2RS	—	—	190	340	55	4	—	—	255	282	22.3
6240	ZZ	2RZ	2RS	—	—	200	360	58	4	—	—	269	310	26.7
6244	ZZ	2RZ	2RS	—	—	220	400	65	4	—	—	310	375	37.4
6248	ZZ	2RZ	2RS	—	—	240	440	72	4	—	—	340	430	50.5
6252	ZZ	2RZ	2RS	—	—	260	480	80	5	—	—	400	540	67
6256	ZZ	2RZ	2RS	—	—	280	500	80	5	—	—	400	550	70.4
6260	ZZ	2RZ	2RS	—	—	300	540	85	5	—	—	465	670	87.8
6301	ZZ	2RZ	2RS	N	NR	12	37	12	1	41.3	1.12	9.70	4.20	0.060
6302	ZZ	2RZ	2RS	N	NR	15	42	13	1	46.3	1.12	11.4	5.40	0.082
6303	ZZ	2RZ	2RS	N	NR	17	47	14	1	52.7	1.12	13.5	6.55	0.115
6304	ZZ	2RZ	2RS	N	NR	20	52	15	1.1	57.9	1.12	15.9	7.80	0.141
6305	ZZ	2RZ	2RS	N	NR	25	62	17	1.1	67.7	1.7	22.5	11.6	0.219
6306	ZZ	2RZ	2RS	N	NR	30	72	19	1.1	78.6	1.7	28.1	16.0	0.350
6307	ZZ	2RZ	2RS	N	NR	35	80	21	1.5	86.6	1.7	33.2	19.0	0.454
6308	ZZ	2RZ	2RS	N	NR	40	90	23	1.5	96.5	2.46	31.4	22.4	0.639
6309	ZZ	2RZ	2RS	N	NR	45	100	25	1.5	106.5	2.46	52.7	31.5	0.836
6310	ZZ	2RZ	2RS	N	NR	50	110	27	2	116.6	2.46	61.8	38.0	1.05
6311	ZZ	2RZ	2RS	N	NR	55	120	29	2	129.7	2.82	71.5	45.0	1.35
6312	ZZ	2RZ	2RS	N	NR	60	130	31	2.1	139.7	2.82	81.9	52.0	1.70
6313	ZZ	2RZ	2RS	N	NR	65	140	33	2.1	149.7	2.82	92.3	60.0	2.10
6314	ZZ	2RZ	2RS	N	NR	70	150	35	2.1	159.7	2.82	104	68.0	2.50
6315	ZZ	2RZ	2RS	N	NR	75	160	37	2.1	169.7	2.82	114	76.5	3.00
6316	ZZ	2RZ	2RS	N	NR	80	170	39	2.1	182.9	3.1	124	86.5	3.60
6317	ZZ	2RZ	2RS	N	NR	85	180	41	3	192.9	3.1	133	96.5	4.25
6318	ZZ	2RZ	2RS	N	NR	90	190	43	3	202.9	3.1	143	108	4.90

DEEP GROOVE BALL BEARINGS

Bearing No.						Boundary Dimensions (mm)						Basic Load Rating (kN)		Weight (kg)
Standard type	Non-standard type					d	D	B	r <sub>s min</sub>	D2 (max)	f (max)	Cr	Cor	
	Shield	Seal		With snap ring groove	With snap ring									
6319	ZZ	2RZ	2RS	N	NR	95	200	45	3	212.9	3.1	153	119	5.75
6320	ZZ	2RZ	2RS	N	NR	100	215	47	3	227.8	3.1	174	140	7.00
6321	ZZ	2RZ	2RS	N	NR	105	225	49	3	237	3.5	182	153	8.25
6322	ZZ	2RZ	2RS	N	NR	110	240	50	3	252	3.5	205	178	9.54
6324	ZZ	2RZ	2RS	—	—	120	260	55	3	—	—	228	207	12.2
6326	ZZ	2RZ	2RS	—	—	130	280	58	4	—	—	229	216	18.0
6328	ZZ	2RZ	2RS	—	—	140	300	62	4	—	—	251	245	22.0
6330	ZZ	2RZ	2RS	—	—	150	320	65	4	—	—	274	284	22.7
6332	ZZ	2RZ	2RS	—	—	160	340	68	4	—	—	278	287	26.2
6334	ZZ	2RZ	2RS	—	—	170	360	72	4	—	—	325	355	36.6
6336	ZZ	2RZ	2RS	—	—	180	380	75	4	—	—	355	405	43.1
6338	ZZ	2RZ	2RS	—	—	190	400	78	5	—	—	355	415	49.7
6340	ZZ	2RZ	2RS	—	—	200	420	80	5	—	—	380	445	55.3
6344	ZZ	2RZ	2RS	—	—	220	460	88	5	—	—	410	520	73.9
6348	ZZ	2RZ	2RS	—	—	240	500	95	5	—	—	470	625	94.4
6352	ZZ	2RZ	2RS	—	—	260	540	102	6	—	—	505	710	118
6356	ZZ	2RZ	2RS	—	—	280	580	108	6	—	—	570	840	144
6405	—	—	—	N	NR	25	80	21	1.5	86.6	1.7	35.8	19.3	0.530
6406	—	—	—	N	NR	30	90	23	1.5	96.5	2.46	43.6	23.6	0.738
6407	—	—	—	N	NR	35	100	25	1.5	106.5	2.46	55.3	31.0	0.951
6408	—	—	—	N	NR	40	110	27	2	116.6	2.46	63.7	36.5	1.25
6409	—	—	—	N	NR	45	120	29	2	129.7	2.82	76.1	45.0	1.55
6410	—	—	—	N	NR	50	130	31	2.1	139.7	2.82	87.1	52.0	1.90
6411	—	—	—	N	NR	55	140	33	2.1	149.7	2.82	99.5	62.0	2.30
6412	—	—	—	N	NR	60	150	35	2.1	159.7	2.82	114	70.1	2.73
6413	—	—	—	N	NR	65	160	37	2.1	169.7	2.82	119	78.0	3.30
6414	—	—	—	N	NR	70	180	42	3	192.9	3.1	143	104	4.85
6415	—	—	—	N	NR	75	190	45	3	202.9	3.1	153	114	6.80
6416	—	—	—	N	NR	80	200	48	3	212.9	3.1	163	125	8.00
6417	—	—	—	N	NR	85	210	52	4	222.8	3.1	174	134	9.50
6418	—	—	—	N	NR	90	225	54	4	237	3.5	186	146	11.5
Super thin series														
61905	ZZ	2RZ	2RS	N	NR	25	42	9	0.3	44.8	0.85	6.63	4.00	0.045
61906	ZZ	2RZ	2RS	N	NR	30	47	9	0.3	49.8	0.85	7.28	4.55	0.051
61907	ZZ	2RZ	2RS	N	NR	35	55	10	0.6	57.8	0.85	9.56	6.20	0.080
61908	ZZ	2RZ	2RS	N	NR	40	62	12	0.6	64.8	0.85	13.8	9.30	0.120
61909	ZZ	2RZ	2RS	N	NR	45	68	12	0.6	70.8	0.85	10.1	6.70	0.140
61910	ZZ	2RZ	2RS	N	NR	50	72	12	0.6	74.8	0.85	14.6	10.4	0.140
61911	ZZ	2RZ	2RS	N	NR	55	80	13	1	84.4	1.12	16.0	13.2	0.181
61912	ZZ	2RZ	2RS	N	NR	60	85	13	1	89.4	1.12	16.4	14.2	0.195
61913	ZZ	2RZ	2RS	N	NR	65	90	13	1	94.4	1.12	16.0	15.0	0.196
61914	ZZ	2RZ	2RS	N	NR	70	100	16	1	104.4	1.12	23.7	21.1	0.342
61915	ZZ	2RZ	2RS	N	NR	75	105	16	1	110.7	1.12	24.3	22.5	0.355
61916	ZZ	2RZ	2RS	N	NR	80	110	16	1	115.7	1.12	24.9	23.9	0.375
61917	ZZ	2RZ	2RS	N	NR	85	120	18	1.1	125.7	1.12	31.9	29.7	0.507
61918	ZZ	2RZ	2RS	N	NR	90	125	18	1.1	130.7	1.12	32.8	31.5	0.533
61919	ZZ	2RZ	2RS	N	NR	95	130	18	1.1	135.7	1.12	33.7	33.3	0.558
61920	ZZ	2RZ	2RS	N	NR	100	140	20	1.1	145.7	1.7	42.7	41.9	0.774
61921	ZZ	2RZ	2RS	N	NR	105	145	20	1.1	150.7	1.7	43.9	44.3	0.808
61922	ZZ	2RZ	2RS	N	NR	110	150	20	1.1	155.7	1.7	43.6	44.4	1.00
61924	ZZ	2RZ	2RS	N	NR	120	165	22	1.1	171.5	1.7	53.0	53.9	1.09
61926	ZZ	2RZ	2RS	N	NR	130	180	24	1.5	186.5	1.7	65.1	67.2	1.50
61928	ZZ	2RZ	2RS	N	NR	140	190	24	1.5	196.5	1.7	66.6	71.2	1.59
61930	ZZ	2RZ	2RS	—	—	150	210	28	2	—	—	84.7	90.2	2.45
61932	ZZ	2RZ	2RS	—	—	160	220	28	2	—	—	86.9	95.5	2.59
61934	ZZ	2RZ	2RS	—	—	170	230	28	2	—	—	88.8	100	2.73



DEEP GROOVE BALL BEARINGS

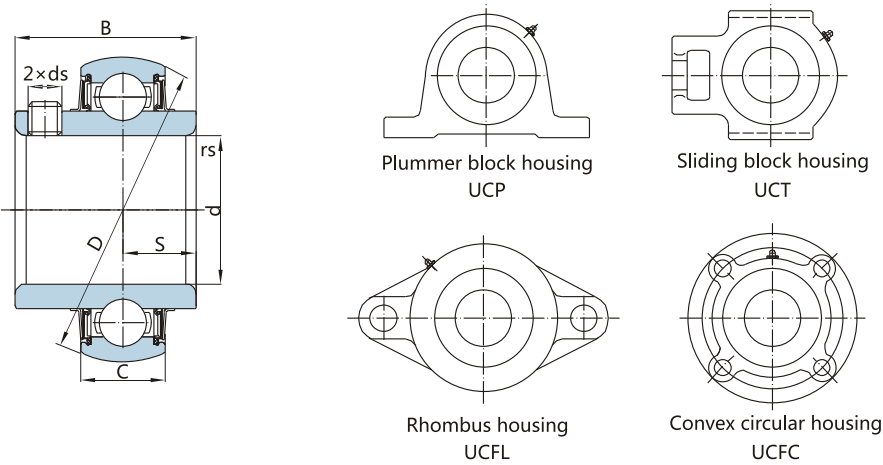
Bearing No.						Boundary Dimensions (mm)						Basic Load Rating (kN)		Weight (kg)
Standard type	Non-standard type					d	D	B	r <sub>s min</sub>	D2 (max)	f (max)	Cr	Cor	
	Shield	Seal		With snap ring groove	With snap ring									
61936	ZZ	2RZ	2RS	—	—	180	250	33	2	—	—	118	133	4.06
61938	ZZ	2RZ	2RS	—	—	190	260	33	2	—	—	117	133	4.22
61940	ZZ	2RZ	2RS	—	—	220	300	38	2.1	—	—	152	178	6.34
61948	ZZ	2RZ	—	—	—	240	320	38	2.1	—	—	154	190	8.49
61952	ZZ	2RZ	—	—	—	260	360	46	2.1	—	—	204	255	14
61956	ZZ	2RZ	—	—	—	280	380	46	2.1	—	—	209	272	15.1
61960	ZZ	2RZ	—	—	—	300	420	56	3	—	—	269	370	23.9
61809	ZZ	2RZ	2RS	N	NR	45	58	7	0.3	60.8	0.85	4.65	4.32	0.040
61810	ZZ	2RZ	2RS	N	NR	50	65	7	0.3	67.8	0.85	6.60	6.10	0.043
61811	ZZ	2RZ	2RS	N	NR	55	72	9	0.3	74.8	0.85	9.10	8.40	0.070
61812	ZZ	2RZ	2RS	N	NR	60	78	10	0.3	82.7	1.12	9.10	8.70	0.093
61813	ZZ	2RZ	2RS	N	NR	65	85	10	0.6	89.4	1.12	11.9	11.5	0.130
61814	ZZ	2RZ	2RS	N	NR	70	90	10	0.6	94.4	1.12	12.1	11.9	0.138
61815	ZZ	2RZ	2RS	N	NR	75	95	10	0.6	99.4	1.12	12.5	12.8	0.147
61816	ZZ	2RZ	2RS	N	NR	80	100	10	0.6	104.4	1.12	12.7	13.3	0.155
61817	ZZ	2RZ	2RS	N	NR	85	110	13	1	115.7	1.12	19.2	19.8	0.245
61818	ZZ	2RZ	2RS	N	NR	90	115	13	1	120.7	1.12	19.5	20.5	0.258
61819	ZZ	2RZ	2RS	N	NR	95	120	13	1	125.7	1.12	19.8	21.3	0.270
61820	ZZ	2RZ	2RS	N	NR	100	125	13	1	130.7	1.12	20.1	22.0	0.303
61821	—	2RZ	2RS	N	NR	105	130	13	1	135.7	1.12	20.3	22.7	0.312
61822	—	2RZ	2RS	N	NR	110	140	16	1	145.7	1.7	22.5	24.5	0.509
61824	—	2RZ	2RS	N	NR	120	150	16	1	155.7	1.7	24.0	28.0	0.529
61826	—	2RZ	2RS	N	NR	130	165	18	1.1	171.5	1.7	24.4	28.0	0.775
61828	—	2RZ	2RS	N	NR	140	175	18	1.1	181.5	1.7	39.2	46.0	0.784
61830	—	2RZ	2RS	N	NR	150	190	20	1.1	196.5	1.7	49.1	57.1	1.11
61832	—	2RZ	2RS	N	NR	160	200	20	1.1	206.5	1.7	45.2	55.1	1.18
61834	—	2RZ	2RS	—	—	170	215	22	1.1	—	—	51.2	63.3	1.65
61836	—	2RZ	2RS	—	—	180	225	22	1.1	—	—	62.3	75.9	1.62
61838	—	2RZ	2RS	—	—	190	240	24	1.5	—	—	75.1	91.6	2.10
61840	—	2RZ	2RS	—	—	200	250	24	1.5	—	—	74.2	91.2	2.18
61848	ZZ	2RZ	—	—	—	240	300	28	2	—	—	98.5	137	4.48
61852	ZZ	2RZ	—	—	—	260	320	28	2	—	—	101	148	4.84
61856	ZZ	2RZ	—	—	—	280	350	33	2	—	—	133	191	7.2
61860	ZZ	2RZ	—	—	—	300	380	38	2	—	—	166	233	10.3
Super narrow series														
16004	—	—	—	—	—	20	42	8	0.3	—	—	7.90	4.45	0.050
16005	—	—	—	—	—	25	47	8	0.3	—	—	8.42	5.15	0.060
16006	—	—	—	—	—	30	55	9	0.30	—	—	11.2	6.25	0.085
16007	—	—	—	—	—	35	62	9	0.30	—	—	11.5	8.80	0.100
16008	—	—	—	—	—	40	68	9	0.3	—	—	12.5	10.2	0.130
16009	—	—	—	—	—	45	75	10	0.6	—	—	15.6	12.2	0.155
16010	—	—	—	—	—	50	80	10	0.6	—	—	16.1	13.1	0.166
16011	—	—	—	—	—	55	90	11	0.6	—	—	19.4	16.2	0.207
16012	—	—	—	—	—	60	95	11	0.6	—	—	19.9	17.5	0.224
16013	—	—	—	—	—	65	100	11	0.6	—	—	20.5	18.6	0.241
16014	—	—	—	—	—	70	110	13	0.6	—	—	27.9	25.0	0.386
16015	—	—	—	—	—	75	115	13	0.6	—	—	28.7	26.8	0.411
16016	—	—	—	—	—	80	125	14	0.6	—	—	33.1	31.4	0.539
16017	—	—	—	—	—	85	130	14	0.6	—	—	34.0	33.3	0.568
16018	—	—	—	—	—	90	140	16	1	—	—	41.5	39.3	0.671
16019	—	—	—	—	—	95	145	16	1	—	—	42.7	41.9	0.709
16020	—	—	—	—	—	100	150	16	1	—	—	43.8	44.3	0.744
16021	—	—	—	—	—	105	160	18	1	—	—	51.8	50.6	1.00
16022	—	—	—	—	—	110	170	19	1	—	—	57.4	56.7	1.27
16024	—	—	—	—	—	120	180	19	1	—	—	58.8	60.4	1.37
16026	—	—	—	—	—	130	200	22	1.1	—	—	79.7	79.2	1.87

DEEP GROOVE BALL BEARINGS

Bearing No.						Boundary Dimensions (mm)						Basic Load Rating (kN)		Weight (kg)
Standard type	Non-standard type					d	D	B	r <sub>s min</sub>	D2 (max)	f (max)	Cr	Cor	
	Shield	Seal		With snap ring groove	With snap ring									
16028	—	—	—	—	—	140	210	22	1.1	—	—	82.1	85.0	2.00
16030	—	—	—	—	—	150	225	24	1.1	—	—	91.9	98.5	2.64
16032	—	—	—	—	—	160	240	25	1.5	—	—	99	108	4.2
16034	—	—	—	—	—	170	260	28	1.5	—	—	114	126	5.71
16036	—	—	—	—	—	180	280	31	2	—	—	145	157	7.5
16038	—	—	—	—	—	190	290	31	2	—	—	149	168	7.78
16040	—	—	—	—	—	200	310	34	2	—	—	161	180	10
16044	—	—	—	—	—	220	340	37	2.1	—	—	180	217	13.1
16048	—	—	—	—	—	240	360	37	2.1	—	—	196	243	13.9
16052	—	—	—	—	—	260	400	44	3	—	—	237	310	21.1
16056	—	—	—	—	—	280	420	44	3	—	—	243	330	22.7
16060	—	—	—	—	—	300	460	50	4	—	—	285	405	31.5
Super width series														
62203	ZZ	2RZ	2RS	N	NR	17	40	16	0.6	44.6	1.12	7.36	4.48	0.086
62204	ZZ	2RZ	2RS	N	NR	20	47	18	1	52.7	1.12	9.88	6.22	0.134
62205	ZZ	2RZ	2RS	N	NR	25	52	18	1	57.9	1.12	14.0	7.80	0.146
62206	ZZ	2RZ	2RS	N	NR	30	62	20	1	67.7	1.7	19.5	11.2	0.249
62207	ZZ	2RZ	2RS	N	NR	35	72	23	1.1	78.6	1.7	25.7	15.3	0.381
62208	ZZ	2RZ	2RS	N	NR	40	80	23	1.1	86.6	1.7	30.7	19.0	0.450
62209	ZZ	2RZ	2RS	N	NR	45	85	23	1.1	91.6	1.7	33.2	21.6	0.485
62210	ZZ	2RZ	2RS	N	NR	50	90	23	1.1	96.5	2.46	35.1	23.2	0.535
62211	ZZ	2RZ	2RS	N	NR	55	100	25	1.5	106.5	2.46	43.4	29.2	0.680
62212	ZZ	2RZ	2RS	N	NR	60	110	28	1.5	116.6	2.46	47.5	32.5	1.01
62213	ZZ	2RZ	2RS	N	NR	65	120	31	1.5	129.7	2.82	55.9	40.5	1.28
62214	ZZ	2RZ	2RS	N	NR	70	125	31	1.5	134.7	2.82	60.5	45.0	1.40
62304	ZZ	2RZ	2RS	N	NR	20	52	21	1.1	57.9	1.12	12.3	7.81	0.197
62305	ZZ	2RZ	2RS	N	NR	25	62	24	1.1	67.7	1.7	22.4	11.5	0.302
62306	ZZ	2RZ	2RS	N	NR	30	72	27	1.1	78.6	1.7	27.0	15.2	0.489
62307	ZZ	2RZ	2RS	N	NR	35	80	31	1.5	86.6	1.7	33.5	18.3	0.614
62308	ZZ	2RZ	2RS	N	NR	40	90	33	1.5	96.5	2.46	31.4	22.4	0.843
62309	ZZ	2RZ	2RS	N	NR	45	100	36	1.5	106.5	2.46	37.2	26.3	1.11
62310	ZZ	2RZ	2RS	N	NR	50	110	40	2.0	116.6	2.46	47.6	35.7	1.47
62311	ZZ	2RZ	2RS	N	NR	55	120	43	2.0	129.7	2.82	71.5	45.0	1.95
62312	ZZ	2RZ	2RS	N	NR	60	130	46	2.1	139.7	2.82	81.8	51.9	2.50
62313	ZZ	2RZ	2RS	N	NR	65	140	48	2.1	149.7	2.82	92.3	60.0	2.94
62314	ZZ	2RZ	2RS	N	NR	70	150	51	2.1	159.7	2.82	104	68.0	3.58
63303	ZZ	2RZ	2RS	N	NR	17	47	22.2	1	52.7	1.12	13.5	6.55	0.1431
63304	ZZ	2RZ	2RS	N	NR	20	52	22.2	1.1	57.9	1.12	15.9	7.8	0.1935
63305	ZZ	2RZ	2RS	N	NR	25	62	25	1.1	67.7	1.7	22.5	11.6	0.2541
63306	ZZ	2RZ	2RS	N	NR	30	72	25.4	1.1	78.6	1.7	28.1	16	0.4062
63307	ZZ	2RZ	2RS	N	NR	35	80	30	1.5	86.6	1.7	33.2	19	0.5037
63308	ZZ	2RZ	2RS	N	NR	40	90	30.2	1.5	96.5	2.46	31.4	22.4	0.8364
63309	ZZ	2RZ	2RS	N	NR	45	100	32	1.5	106.5	2.46	52.7	31.5	1.27
63310	ZZ	2RZ	2RS	N	NR	50	110	34.9	2	116.6	2.46	61.8	38	1.732
63311	ZZ	2RZ	2RS	N	NR	55	120	36.5	2	129.7	2.82	71.5	45	2.2372
63312	ZZ	2RZ	2RS	N	NR	60	130	39.7	2.1	139.7	2.82	81.9	52	2.8531
63313	ZZ	2RZ	2RS	N	NR	65	140	44.4	2.1	149.7	2.82	92.3	60	3.5418
63314	ZZ	2RZ	2RS	N	NR	70	150	49.2	2.1	159.7	2.82	104	68	4.3533
63315	ZZ	2RZ	2RS	N	NR	75	160	54	2.1	169.7	2.82	114	76.5	5.2064
63316	ZZ	2RZ	2RS	N	NR	80	170	58.7	2.1	182.9	3.1	124	86.5	6.1098
63317	ZZ	2RZ	2RS	N	NR	85	180	63.5	3	192.9	3.1	133	96.5	7.1134

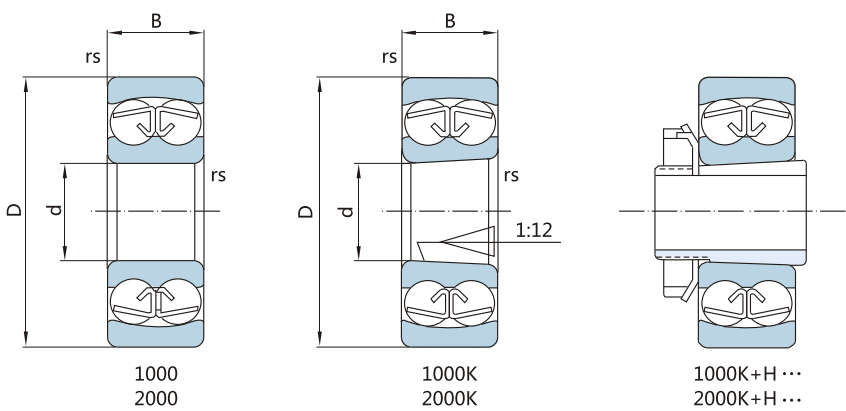


INSERT BEARINGS



Bearing No.	Boundary Dimensions (mm)							Basic Load Rating (kN)		Weight (kg)
	d	D	B	S	C	r <sub>s min</sub>	Ds	Cr	Cor	
UC 204	20	47	31	12.7	17	1.0	M6×0.75	9.88	6.65	0.16
UC 205	25	52	34	14.3	17	1.0	M6×0.75	10.8	7.88	0.22
UC 206	30	62	38.1	15.9	19	1.0	M6×0.75	15.0	11.2	0.35
UC 207	35	72	42.9	17.5	20	1.1	M8×1.0	19.8	15.2	0.52
UC 208	40	80	49.2	19	21	1.1	M8×1.0	22.8	18.2	0.70
UC 209	45	85	49.2	19	22	1.1	M8×1.0	24.5	20.8	0.74
UC210	50	90	51.6	19	23	1.1	M10×1	27.0	23.2	0.83
UC 211	55	100	55.6	22.2	24	1.5	M10×1	43.4	29.2	0.974
UC 212	60	110	65.1	25.4	26	1.5	M10×1	52.5	35.9	1.47
UC 213	65	120	65.1	25.4	27	2.0	M10×1.25	44.0	34.0	1.71
UC 214	70	125	74.6	30.2	29	2.0	M12×1.5	46.8	37.5	2.06
UC 215	75	130	77.8	33.3	30	2.0	M12×1.5	50.8	41.2	2.22
UC 216	80	140	82.6	33.3	32	2.5	M12×1.5	55.0	44.8	2.82
UC 217	85	150	85.7	34.1	34	2.5	M12×1.5	64.0	53.2	3.38
UC 218	90	160	96	39.7	36	2.5	M12×1.5	73.8	60.5	4.34
UC 305	25	62	38	15	21	1.1	M6×0.75	17.2	11.2	0.44
UC 306	30	72	43	17	23	1.1	M6×0.75	20.8	14.2	0.56
UC 307	35	80	48	19	25	1.5	M8×1.0	25.8	17.8	0.71
UC 308	40	90	52	19	27	1.5	M10×1.25	31.2	22.2	1.00
UC 309	45	100	57	22	30	1.5	M10×1.25	40.8	29.8	1.28
UC 310	50	110	61	22	32	2.0	M12×1.5	47.5	35.5	1.65
UC 311	55	120	66	25	34	2.0	M12×1.5	55.2	41.8	2.07
UC 312	60	130	71	26	36	2.1	M12×1.5	62.8	48.5	2.59
UC 313	65	140	75	30	38	2.1	M12×1.5	72.2	56.5	3.15
UC 314	70	150	78	33	40	2.1	M12×1.5	80.2	63.2	3.83
UC 315	75	160	82	32	42	2.1	M14×1.5	87.2	71.5	4.59
UC 316	80	170	86	34	44	2.1	M14×1.5	94.5	80.0	5.40
UC 317	85	180	96	40	46	3.0	M16×1.5	132.6	96.6	6.58
UC 318	90	190	96	40	48	3.0	M16×1.5	121.5	100.9	7.34
the bearings above can be supplied with any kinds of bearing housing										

SELF-ALIGNING BALL BEARING



Bearing No.		Boundary Dimensions (mm)				Basic Load Rating (kN)		Speed Rating (r/min)		Weight (kg)
		d	D	B	r <sub>s min</sub>	Cr	Cor	Grease lubrication	Oil lubrication	
Cylindrical bore	Tapered bore									
1203	1203K	17	40	12	0.6	8.0	2.01	16000	20000	0.072
1204	1204K	20	47	14	1	10.0	2.61	14000	17000	0.120
1205	1205K	25	52	15	1	12.2	3.30	12000	14000	0.140
1206	1206K	30	62	16	1	15.8	4.65	10000	12000	0.220
1207	1207K	35	72	17	1.1	15.9	5.10	8500	10000	0.32
1208	1208K	40	80	18	1.1	19.3	6.50	7500	9000	0.42
1209	1209K	45	85	19	1.1	22.0	7.35	7100	8500	0.47
1210	1210K	50	90	20	1.1	22.8	8.10	6300	8000	0.53
1211	1211K	55	100	21	1.5	26.9	10.0	6000	7100	0.71
1212	1212K	60	110	22	1.5	30.5	11.5	5300	6300	0.90
1213	1213K	65	120	23	1.5	31.0	12.5	4800	6000	1.15
1214	1214K	70	125	24	1.5	35.0	13.8	4800	5600	1.30
1215	1215K	75	130	25	1.5	39.0	15.7	4300	5300	1.41
1216	1216K	80	140	26	2	40.0	17.0	4000	5000	1.74
1217	1217K	85	150	28	2	49.5	20.8	3800	4500	2.10
1218	1218K	90	160	30	2	57.5	23.5	3600	4300	2.56
1303	1303K	17	47	14	1	12.7	3.20	14000	17000	0.135
1304	1304K	20	52	15	1.1	12.6	3.35	12000	15000	0.165
1305	1305K	25	62	17	1.1	18.2	5.00	10000	13000	0.255
1306	1306K	30	72	19	1.1	21.4	6.30	8500	11000	0.385
1307	1307K	35	80	21	1.5	25.3	7.85	7500	9500	0.51
1308	1308K	40	90	23	1.5	29.8	9.70	6700	8500	0.72
1309	1309K	45	100	25	1.5	38.5	12.7	6000	7500	0.96
1310	1310K	50	110	27	2	43.5	14.1	5600	6700	1.25
1311	1311K	55	120	29	2	51.5	17.9	5000	6300	1.60
1312	1312K	60	130	31	2.1	57.5	20.8	4500	5600	2.03
1313	1313K	65	140	33	2.1	62.5	22.9	4300	5300	2.54
1314	1314K	70	150	35	2.1	65.0	25.1	4000	5000	3.19
1315	1315K	75	160	37	2.1	80.0	30.0	3800	4500	3.65
1316	1316K	80	170	39	2.1	89.0	33.0	3600	4300	4.32

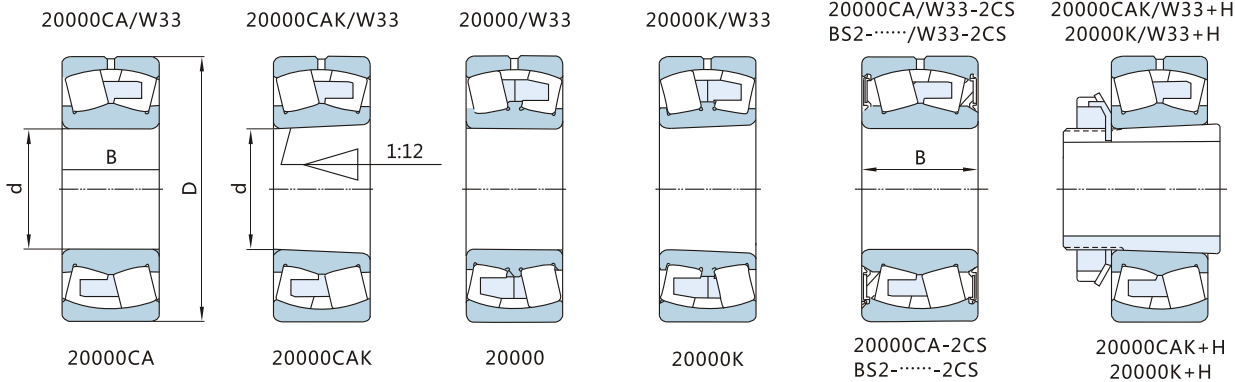


SELF-ALIGNING BALL BEARING

Bearing No.		Boundary Dimensions (mm)				Basic Load Rating (kN)		Speed Rating (r/min)		Weight (kg)
Cylindrical bore	Tapered bore	d	D	B	r <sub>s min</sub>	Cr	Cor	Grease lubrication	Oil lubrication	
1317	1317K	85	180	41	3	98.5	38.0	3400	4000	5.15
1318	1318K	90	190	43	3	117	44.5	3200	3800	5.95
2203	2203K	17	40	16	0.6	9.9	2.42	16000	20000	0.085
2204	2204K	20	47	18	1	12.8	3.30	14000	17000	0.133
2205	2205K	25	52	18	1	12.4	3.45	12000	14000	0.150
2206	2206K	30	62	20	1	15.3	4.55	10000	12000	0.250
2207	2207K	35	72	23	1.1	21.7	6.60	8500	10000	0.38
2208	2208K	40	80	23	1.1	22.4	7.35	7500	9000	0.48
2209	2209K	45	85	23	1.1	23.3	8.15	7100	8500	0.52
2210	2210K	50	90	23	1.1	23.3	8.45	6300	8000	0.56
2211	2211K	55	100	25	1.5	26.7	9.90	6000	7100	0.75
2212	2212K	60	110	28	1.5	34.0	12.6	5300	6300	1.03
2213	2213K	65	120	31	1.5	43.5	16.4	4800	6000	1.40
2214	2214K	70	125	31	1.5	44.0	17.1	4500	5600	1.52
2215	2215K	75	130	31	1.5	44.5	17.8	4300	5300	1.60
2216	2216K	80	140	33	2	49.0	19.9	4000	5000	1.98
2217	2217K	85	150	36	2	58.5	23.6	3800	4800	2.50
2218	2218K	90	160	40	2	70.5	28.7	3600	4300	3.14
2303	2303K	17	47	19	1	14.7	3.55	13000	16000	0.155
2304	2304K	20	52	21	1.1	18.5	4.70	11000	14000	0.193
2305	2305K	25	62	24	1.1	24.9	6.60	9500	12000	0.319
2306	2306 K	30	72	27	1.1	32.0	8.75	8000	10000	0.480
2307	2307K	35	80	31	1.5	40.0	11.3	7100	9000	0.64
2308	2308K	40	90	33	1.5	45.5	13.5	6300	8000	0.89
2309	2309K	45	100	36	1.5	55.0	16.7	5600	7100	1.20
2310	2310K	50	110	40	2	65.0	20.2	5000	6300	1.58
2311	2311K	55	120	43	2	76.5	24.0	4800	6000	2.03
2312	2312K	60	130	46	2.1	88.5	28.3	4300	5300	2.57
2313	2313K	65	140	48	2.1	97.0	32.5	3800	4800	3.20
2314	2314K	70	150	51	2.1	111	37.5	3600	4500	3.90
2315	2315K	75	160	55	2.1	125	43.0	3400	4300	4.77
2316	2316K	80	170	58	2.1	130	45.0	3200	4000	5.55
2317	2317K	85	180	60	3	142	51.5	3000	3800	658
2318	2318K	90	190	64	3	154	57.5	2800	3600	7.77
1000K and 2000K series can be supplied with sleeves										



SELF-ALIGNING ROLLER BEARING



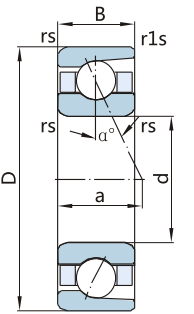
Bearing No.			Boundary Dimensions (mm)				Basic Load Rating (kN)		Weight (kg)
Standard type		Non-standard type	d	D	B	r <sub>s min</sub>	Cr	Cor	
Cylindrical bore	Tapered bore	W33							
22205 CA	22205 CAK	W33	25	52	18	1	35.7	36.7	0.18
22206 CA	22206 CAK	W33	30	62	20	1	50.5	55.1	0.28
22207 CA	22207 CAK	W33	35	72	23	1.1	68.5	78.9	0.43
22208 CA	22208 CAK	W33	40	80	23	1.1	80.0	91.0	0.54
22209 CA	22209 CAK	W33	45	85	23	1.1	80.0	92.0	0.59
22210 CA	22210 CAK	W33	50	90	23	1.1	83.0	98.0	0.63
22211 CA	22211 CAK	W33	55	100	25	1.5	99.0	116	0.86
22212 CA	22212 CAK	W33	60	110	28	1.5	119	142	1.17
22213 CA	22213 CAK	W33	65	120	31	1.5	152	190	1.59
22214 CA	22214 CAK	W33	70	125	31	1.5	152	192	1.68
22215 CA	22215 CAK	W33	75	130	31	1.5	164	210	1.72
22216 CA	22216 CAK	W33	80	140	33	2	171	221	2.13
22217 CA	22217 CAK	W33	85	150	36	2	212	273	2.71
22218 CA	22218 CAK	W33	90	160	40	2	248	327	3.52
22219 CA	22219 CAK	W33	95	170	43	2.1	284	381	4.28
22220 CA	22220 CAK	W33	100	180	46	2.1	316	424	5.13
22222 CA	22222 CAK	W33	110	200	53	2.1	413	576	7.49
22308	22308 K	W33	40	90	33	1.5	116	122	1.06
22308 CA	22308 AK	W33	40	90	33	1.5	120	135	1.04
22309	22309 K	W33	45	100	36	1.5	143	155	1.43
22309 CA	22309 CAK	W33	45	100	36	1.5	157	186	1.48
22310	22310 K	W33	50	110	40	2	172	189	1.99
22310 CA	22310 CAK	W33	50	110	40	2	178	206	1.88
22311	22311 K	W33	55	120	43	2	204	228	2.47
22311 CA	22311 CAK	W33	55	120	43	2	208	241	2.52
22312	22312 K	W33	60	130	46	2.1	229	256	3.06
22312 CA	22312 CAK	W33	60	130	46	2.1	238	278	3.05
22313	22313 K	W33	65	140	48	2.1	248	284	3.73
22313 CA	22313 CAK	W33	65	140	48	2.1	265	315	3.75
22314	22314 K	W33	70	150	51	2.1	310	351	4.55
22314 CA	22314 CAK	W33	70	150	51	2.1	300	363	4.60
22315	22315 K	W33	75	160	55	2.1	312	360	5.50
22315 CA	22315 CAK	W33	75	160	55	2.1	351	439	5.55
22316	22316 K	W33	80	170	58	2.1	382	440	6.54



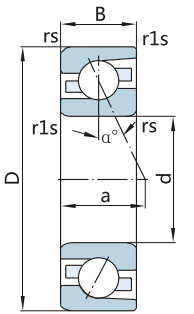
SELF-ALIGNING ROLLER BEARING

Bearing No.			Boundary Dimensions (mm)				Basic Load Rating (kN)		Weight (kg)
Standard type		Non-standard type	d	D	B	r <sub>s min</sub>	Cr	Cor	
Cylindrical bore	Tapered bore	W33							
22316 CA	22316 CAK	W33	80	170	58	2.1	395	499	6.54
22317 CA	22317 CAK	W33	85	180	60	3	433	547	7.38
22318 CA	22318 CAK	W33	90	190	64	3	488	631	8.81
22319 CA	22319 CAK	W33	95	200	67	3	537	696	10.2
22320 CA	22320 CAK	W33	100	215	73	3	606	792	13.0
23024 CA-2CS	—	W33	120	180	46	2	296	482	4.08
BS2-2208-2CS	—	W33	40	80	28	1.1	80.0	91.0	0.63
BS2-2211-2CS	—	W33	55	100	31	1.5	99.0	116	1.03
BS2-2216-2CS	—	W33	80	140	40	2	171	221	2.56
BS2-2218-2CS	—	W33	90	160	48	2	248	327	4.09
We can supply sleeves for tapered bore bearings									

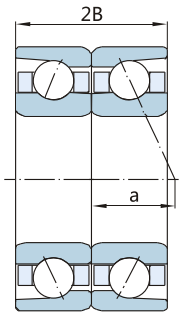
ANGULAR CONTACT BALL BEARINGS



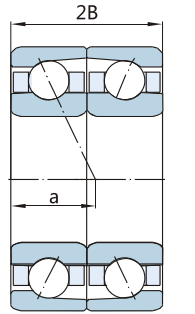
C: contact angle  $\alpha=15^\circ$   
AC: contact angle  $\alpha=25^\circ$



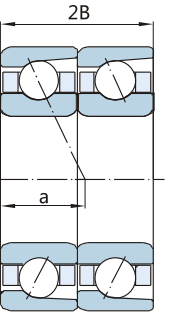
B: contact angle  $\alpha=40^\circ$



Two bearings arranged back-to-back DB



Two bearings arranged face-to-face DF



Two bearings arranged in tandem DT

Bearing No.		Boundary Dimensions (mm)					Contact point (mm)	Speed rating (rpm)		Basic Load Rating (kN)		Weight (kg)
New type	Original type	d	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	a	Grease lubrication	Oil lubrication	Cr	Cor	
71805 C		25	37	7	0.3	0.15	7.7	21500	27700	4.40	3.92	0.025
71805 AC		25	37	7	0.3	0.15	10.7	18400	24600	4.13	3.66	0.025
71806 C		30	42	7	0.3	0.15	8.3	18500	23800	4.73	4.62	0.029
71806 AC		30	42	7	0.3	0.15	11.9	15900	21200	4.44	4.32	0.029
71807 C		35	47	7	0.3	0.15	9	16300	20900	4.92	5.14	0.034
71807 AC		35	47	7	0.3	0.15	13.1	13900	18600	4.62	4.81	0.034
71808 C		40	52	7	0.3	0.15	9.7	14500	18600	5.20	5.84	0.040
71808 AC		40	52	7	0.3	0.15	14.2	12400	16600	4.88	5.46	0.040
71809 C		45	58	7	0.3	0.15	10.4	12900	16600	6.54	7.52	0.051
71809 AC		45	58	7	0.3	0.15	15.5	11100	14800	6.14	7.03	0.051
71810 C		50	65	7	0.3	0.15	11.2	11600	14900	6.85	8.41	0.068
71810 AC		50	65	7	0.3	0.15	16.9	9900	13200	6.44	7.87	0.068
71811 C		55	72	9	0.3	0.15	13	10500	13500	9.38	11.4	0.109

ANGULAR CONTACT BALL BEARINGS

Bearing No.		Boundary Dimensions (mm)					Contact point (mm)	Speed rating (rpm)		Basic Load Rating (kN)		Weight (kg)
New type	Original type	d	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	a	Grease lubrication	Oil lubrication	Cr	Cor	
71811 AC		55	72	9	0.3	0.15	19.3	9000	12000	8.81	10.7	0.109
71812 C		60	78	10	0.3	0.15	14.2	9600	12400	9.69	12.4	0.139
71812 AC		60	78	10	0.3	0.15	21.1	8300	11000	9.11	11.6	0.139
71813 C		65	85	10	0.6	0.15	15	8900	11400	12.5	16.0	0.198
71813 AC		65	85	10	0.6	0.15	22.5	7600	10100	11.8	15.0	0.198
71814 C		70	90	10	0.6	0.15	15.7	8300	10700	13.0	17.4	0.217
71814 AC		70	90	10	0.6	0.15	23.7	7100	9500	12.2	16.2	0.217
71815 C		75	95	10	0.6	0.15	16.4	7800	10100	13.2	18.2	0.226
71815 AC		75	95	10	0.6	0.15	24.8	6700	8900	12.4	17.1	0.226
71816 C		80	100	10	0.6	0.15	17.1	7400	9500	13.7	19.6	0.245
71816 AC		80	100	10	0.6	0.15	26	6300	8400	12.8	18.3	0.245
71817 C		85	110	13	1	0.3	19.6	6800	8800	20.4	28.1	0.401
71817 AC		85	110	13	1	0.3	29.2	5800	7800	19.2	26.2	0.401
71818 C		90	115	13	1	0.3	20.2	6500	8300	20.8	29.5	0.426
71818 AC		90	115	13	1	0.3	30.4	5500	7400	19.6	27.6	0.426
71819 C		95	120	13	1	0.3	20.9	6200	7900	21.3	31.0	0.450
71819 AC		95	120	13	1	0.3	31.6	5300	7100	20.0	29.0	0.450
71820 C		100	125	13	1	0.3	21.6	5900	7600	21.7	32.4	0.475
71820 AC		100	125	13	1	0.3	32.7	5000	6700	20.3	30.3	0.475
71821 C		105	130	13	1	0.3	22.2	5600	7300	22.1	33.9	0.499
71821 AC		105	130	13	1	0.3	33.9	4800	6500	20.7	31.7	0.499
71822 C		110	140	16	1	0.3	24.7	5300	6800	30.5	45.2	0.824
71822 AC		110	140	16	1	0.3	37.1	4500	6100	28.6	42.3	0.824
71824 C		120	150	16	1	0.3	26.1	4900	6300	31.3	48.5	0.886
71824 AC		120	150	16	1	0.3	39.5	4200	5600	29.4	45.4	0.886
71826 C		130	165	18	1.1	0.6	28.8	4500	5800	41.2	63.2	1.278
71826 AC		130	165	18	1.1	0.6	43.4	3800	5100	38.7	59.1	1.278
71828 C		140	175	18	1.1	0.6	30.1	4200	5400	42.4	67.8	1.398
71828 AC		140	175	18	1.1	0.6	45.7	3600	4800	39.9	63.4	1.398
71830 C		150	190	20	1.1	0.6	32.8	3900	5000	53.3	84.2	1.946
71830 AC		150	190	20	1.1	0.6	49.6	3300	4400	50.1	78.8	1.946
71832 C		160	200	20	1.1	0.6	34.1	3700	4700	55.1	90.3	2.119
71832 AC		160	200	20	1.1	0.6	52	3100	4200	51.8	84.5	2.119
71834 C		170	215	22	1.1	0.6	36.8	3400	4400	66.8	108.1	2.757
71834 AC		170	215	22	1.1	0.6	55.9	2900	3900	62.8	101.2	2.757
71836 C		180	225	22	1.1	0.6	38.1	3300	4200	68.1	113.3	2.914
71836 AC		180	225	22	1.1	0.6	58.2	2800	3700	64.0	106.0	2.914
71838 C		190	240	24	1.5	0.6	40.8	3100	3900	81.7	135.1	3.792
71838 AC		190	240	24	1.5	0.6	62.1	2600	3500	76.7	126.4	3.792
71840 C		200	250	24	1.5	0.6	42.1	2900	3800	83.3	141.6	4.095
71840 AC		200	250	24	1.5	0.6	64.5	2500	3300	78.3	132.5	4.095
71905 C		25	42	9	0.3	0.15	9	19900	25600	7.35	6.33	0.056
71905 AC		25	42	9	0.3	0.15	12.3	17100	22800	6.91	5.91	0.056
71906 C		30	47	9	0.3	0.15	9.7	17300	22300	7.61	6.96	0.064
71906 AC		30	47	9	0.3	0.15	13.5	14800	19800	7.14	6.50	0.064
71907 C		35	55	10	0.6	0.15	11	14800	19000	10.3	9.95	0.117
71907 AC		35	55	10	0.6	0.15	15.5	12700	16900	9.73	9.29	0.117
71908 C		40	62	12	0.6	0.15	12.8	13100	16800	14.4	14.0	0.164
71908 AC		40	62	12	0.6	0.15	17.9	11200	14900	13.6	13.1	0.164
71909 C		45	68	12	0.6	0.15	13.6	11800	15200	15.0	15.3	0.194
71909 AC		45	68	12	0.6	0.15	19.2	10100	13500	14.1	14.3	0.194
71910 C		50	75	12	0.6	0.15	14.4	10600	13700	15.9	17.3	0.213
71910 AC		50	75	12	0.6	0.15	20.6	9100	12200	14.9	16.1	0.213
71911 C		55	80	13	1	0.3	15.5	9900	12700	17.5	19.3	0.278
71911 AC		55	80	13	1	0.3	22.2	8400	11300	16.4	18.1	0.278
71912 C		60	85	13	1	0.3	16.2	9200	11800	18.0	20.8	0.301



ANGULAR CONTACT BALL BEARINGS

Bearing No.		Boundary Dimensions (mm)					Contact point (mm)	Speed rating (rpm)		Basic Load Rating (kN) <sup>g</sup>		Weight (kg)
New type	Original type	d	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	a	Grease lubrication	Oil lubrication	Cr	Cor	
71912 AC		60	85	13	1	0.3	23.4	7900	10500	16.9	19.4	0.301
71913 C		65	90	13	1	0.3	16.9	8600	11000	18.6	22.2	0.316
71913 AC		65	90	13	1	0.3	24.6	7300	9800	17.4	20.8	0.316
71914 C		70	100	16	1	0.3	19.4	7800	10100	26.2	31.1	0.555
71914 AC		70	100	16	1	0.3	27.8	6700	8900	24.6	29.1	0.555
71915 C		75	105	16	1	0.3	20.1	7400	9500	26.4	32.2	0.574
71915 AC		75	105	16	1	0.3	29	6300	8400	24.8	30.1	0.571
71916 C		80	110	16	1	0.3	20.7	7000	9000	27.2	34.4	0.616
71916 AC		80	110	16	1	0.3	30.1	6000	8000	25.6	32.1	0.616
71917 C		85	120	18	1.1	0.6	22.7	6500	8300	36.1	45.1	0.904
71917 AC		85	120	18	1.1	0.6	32.9	5500	7400	33.9	42.1	0.904
71918 C		90	125	18	1.1	0.6	23.4	6200	7900	36.4	46.6	0.930
71918 AC		90	125	18	1.1	0.6	34.1	5300	7100	34.2	43.5	0.930
71919 C		95	130	18	1.1	0.6	24.1	5900	7600	37.6	49.6	0.992
71919 AC		95	130	18	1.1	0.6	35.2	5000	6700	35.3	46.4	0.992
71920 C		100	140	20	1.1	0.6	26.1	5500	7100	46.5	60.0	1.329
71920 AC		100	140	20	1.1	0.6	38	4700	6300	43.7	56.1	1.329
71921 C		105	145	20	1.1	0.6	26.7	5300	6800	47.1	62.0	1.363
71921 AC		105	145	20	1.1	0.6	39.1	4500	6100	44.2	57.9	1.363
71922 C		110	150	20	1.1	0.6	27.4	5100	6600	48.6	66.1	1.501
71922 AC		110	150	20	1.1	0.6	40.3	4400	5800	45.7	61.8	1.501
71924 C		120	165	22	1.1	0.6	30.1	4600	6000	60.2	82.3	2.02
71924 AC		120	165	22	1.1	0.6	44.2	4000	5300	56.5	77.0	2.02
71926 C		130	180	24	1.5	0.6	32.8	4300	5500	72.5	99.6	2.737
71926 AC		130	180	24	1.5	0.6	48.1	3600	4900	68.1	93.1	2.737
71928 C		140	190	24	1.5	0.6	34.1	4000	5200	74.4	106.1	2.942
71928 AC		140	190	24	1.5	0.6	50.5	3400	4600	69.9	99.2	2.942
71930 C		150	210	28	2	1	38.1	3700	4700	95.5	133.5	4.297
71930 AC		150	210	28	2	1	56	3100	4200	89.6	124.8	4.297
71932 C		160	220	28	2	1	39.5	3500	4500	97.1	142.3	4.69
71932 AC		160	220	28	2	1	58.3	3000	4000	91.2	133.0	4.69
71934 C		170	230	28	2	1	40.8	3300	4200	97.7	146.5	4.826
71934 AC		170	230	28	2	1	60.6	2800	3800	91.8	137.0	4.826
71936 C		180	250	33	2	1	45.3	3100	3900	127.0	186.4	6.952
71936 AC		180	250	33	2	1	66.6	2600	3500	119.3	174.2	6.952
71938 C		190	260	33	2	1	46.6	2900	3800	131.1	198.7	7.685
71938 AC		190	260	33	2	1	69	2500	3300	123.2	185.8	7.685
71940 C		200	280	38	2.1	1	51.2	2700	3500	162.2	240.1	10.319
71940 AC		200	280	38	2.1	1	75	2300	3100	152.2	224.4	10.319
71944 C		220	300	38	2.1	1	53.8	2500	3300	169.5	264.6	11.668
71944 AC		220	300	38	2.1	1	79.6	2200	2900	159.3	247.4	11.668
7003 C	36103	17	35	10	0.3	0.15	8.5	25500	33000	6.61	3.76	0.038
7003 AC	46103	17	35	10	0.3	0.15	11.1	22000	29000	6.32	3.53	0.038
7004 C	36104	20	42	12	0.6	0.15	10.2	21500	28000	10.47	6.01	0.066
7004 AC	46104	20	42	12	0.6	0.15	13.2	18500	25000	10.0	5.56	0.066
7005 C	36105	25	47	12	0.6	0.15	10.8	18500	24000	11.68	7.43	0.078
7005 AC	46105	25	47	12	0.6	0.15	14.4	16000	21000	11.18	6.89	0.078
7006 C	36106	30	55	13	1	0.3	12.3	15500	20000	15.13	10.27	0.112
7006 AC	46106	30	55	13	1	0.3	16.5	13500	18000	14.49	9.56	0.112
7007 C	36107	35	62	14	1	0.3	13.5	14000	18000	19.45	13.72	0.15
7007 AC	46107	35	62	14	1	0.3	18.3	12000	16000	18.6	12.87	0.15
7008 C	36108	40	68	15	1	0.3	14.7	12500	16000	20.13	15.07	0.18
7008 AC	46108	40	68	15	1	0.3	20.1	11000	14000	19.26	14.14	0.18
7009 C	36109	45	75	16	1	0.3	16	11000	14000	25.85	20.21	0.23
7009 AC	46109	45	75	16	1	0.3	22	9500	13000	24.83	18.96	0.23
7010 C	36110	50	80	16	1	0.3	16.7	10500	13000	26.7	21.73	0.25

ANGULAR CONTACT BALL BEARINGS

Bearing No.		Boundary Dimensions (mm)					Contact point (mm)	Speed rating (rpm)		Basic Load Rating (kN)		Weight (kg)
New type	Original type	d	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	a	Grease lubrication	Oil lubrication	Cr	Cor	
7010 AC	46110	50	80	16	1	0.3	23.2	8800	12000	25.53	20.38	0.25
7011 C	36111	55	90	18	1.1	0.6	18.7	9200	12000	37.29	30.09	0.37
7011 AC	46111	55	90	18	1.1	0.6	25.9	7900	10500	35.66	28.24	0.37
7012 C	36112	60	95	18	1.1	0.6	19.5	8500	11000	38.38	32.39	0.39
7012 AC	46112	60	95	18	1.1	0.6	27.3	7300	9700	36.7	30.39	0.39
7013 C	36113	65	100	18	1.1	0.6	20.1	8100	10000	40.25	35.14	0.42
7013 AC	46113	65	100	18	1.1	0.6	28.2	7000	9300	38.49	32.97	0.42
7014 C	36114	70	110	20	1.1	0.6	22.1	7400	9500	48.51	42.96	0.58
7014 AC	46114	70	110	20	1.1	0.6	31	6400	8500	46.39	40.31	0.58
7015 C	36115	75	115	20	1.1	0.6	22.9	7000	9000	49.74	45.77	0.63
7015 AC	46115	75	115	20	1.1	0.6	32.4	6000	8000	47.57	42.95	0.63
7016 C	36116	80	125	22	1.1	0.6	24.9	6400	8300	58.85	54.9	0.82
7016 AC	46116	80	125	22	1.1	0.6	35.2	5500	7300	56.29	51.51	0.82
7017 C	36117	85	130	22	1.1	0.6	25.5	6200	8000	62.83	59.17	0.86
7017 AC	46117	85	130	22	1.1	0.6	36.3	5300	7000	60.09	55.52	0.86
7018 C	36118	90	140	24	1.5	0.6	27.7	5700	7300	71.82	68.68	1.12
7018 AC	46118	90	140	24	1.5	0.6	39.3	4900	6500	67.61	65.81	1.12
7019 C	36119	95	145	24	1.5	0.6	28.1	5600	7100	73.91	72.56	1.17
7019 AC	46119	95	145	24	1.5	0.6	40	4800	6400	70.68	68.08	1.17
7020 C	36120	100	150	24	1.5	0.6	28.7	5300	6900	79.8	77.44	1.25
7020 AC	46120	100	150	24	1.5	0.6	41.1	4600	6100	76.32	72.66	1.25
7021 C	36121	105	160	26	2	1	30.8	5000	6500	89.04	87.37	1.53
7021 AC	46121	105	160	26	2	1	43.9	4300	5800	85.15	81.98	1.53
7022 C	36122	110	170	28	2	1	32.9	4700	6100	101.3	100.5	1.91
7022 AC	46122	110	170	28	2	1	46.9	4000	5400	96.95	94.33	1.91
7024 C	36124	120	180	28	2	1	34.1	4400	5700	108.5	109.4	2.04
7024 AC	46124	120	180	28	2	1	49	3800	5100	103.8	102.7	2.04
7026 C	36126	130	200	33	2	1	38.6	4000	5200	130.0	133.5	3.73
7026 AC	46126	130	200	33	2	1	55	3500	4600	124.4	125.3	3.73
7028 AC	46128	140	210	33	2	1	37	3300	4100	218.0	234.0	7.76
7028 C	36128	140	210	33	2	1	39.9	4500	6000	238.0	254.0	7.76
7030 AC	46130	150	225	35	2.1	1.1	72.1	2700	3300	137.0	154.0	4.43
7030 C	36130	150	225	35	2.1	1.1	42.8	3700	4900	151.0	169.0	4.43
7032 AC	46132	160	240	38	2.1	1.1	76.8	2800	3500	155.0	176.0	5.45
7032 C	36132	160	240	38	2.1	1.1	45.8	3900	5200	171.0	193.0	5.45
7034 AC	46134	170	260	42	2.1	1.1	83.1	2600	3200	186.0	214.0	7.58
7034 C	36134	170	260	42	2.1	1.1	49.8	3600	4800	204.0	234.0	7.57
7036 AC	46136	180	280	46	2.1	1.1	89.4	2400	3000	212.0	253.0	10.1
7036 C	36136	180	280	46	2.1	1.1	53.8	3300	4400	233.0	276.0	9.96
7038 AC	46138	190	290	46	2.1	1.1	92.3	2300	2800	217.0	268.0	10.8
7038 C	36138	190	290	46	2.1	1.1	55.2	3100	4200	239.0	293.0	10.8
7040 AC	46140	200	310	51	2.1	1.1	99.1	2100	2600	244.0	309.0	12.7
7040 C	36140	200	310	51	2.1	1.1	59.7	2900	3900	268.0	338.0	12.7
7044 AC	46144	220	340	56	3	3	94.1	1900	2400	307.6	415.7	18.5
7044 C	46144	220	340	56	3	3	66.4	2700	3700	325	443.0	18.5
7203 C	36203	17	40	12	0.6	0.3	9.9	23000	30000	10.83	5.78	0.062
7203 AC	46203	17	40	12	0.6	0.3	12.8	20000	26000	10.36	5.42	0.062
7203 B	66203	17	40	12	0.6	0.3	18.2	16500	23000	9.21	4.58	0.066
7204 C	36204	20	47	14	1	0.3	11.6	20000	25000	14.54	8.03	0.10
7204 AC	46204	20	47	14	1	0.3	15	17000	22000	13.9	7.53	0.10
7204 B	66204	20	47	14	1	0.3	21.5	14000	20000	12.36	6.37	0.11
7205 C	36205	25	52	15	1	0.3	12.7	17000	22000	16.57	10.14	0.12
7205 AC	46205	25	52	15	1	0.3	16.6	15000	20000	15.85	9.51	0.12
7205 B	66205	25	52	15	1	0.3	23.9	12000	17000	14.09	8.04	0.13
7206 C	36206	30	62	16	1	0.3	14.2	14000	18000	23.0	14.56	0.19
7206 AC	46206	30	62	16	1	0.3	18.8	12000	16000	22.0	13.66	0.19



ANGULAR CONTACT BALL BEARINGS

Bearing No.		Boundary Dimensions (mm)					Contact point (mm)	Speed rating (rpm)		Basic Load Rating (kN) <sup>g</sup>		Weight (kg)
New type	Original type	d	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	a	Grease lubrication	Oil lubrication	Cr	Cor	
7206 B	66206	30	62	16	1	0.3	27.5	10000	14000	19.56	11.55	0.20
7207 C	36207	35	72	17	1.1	0.6	15.7	12500	16000	30.34	19.7	0.27
7207 AC	46207	35	72	17	1.1	0.6	21	11000	14000	29.01	18.49	0.27
7207 B	66207	35	72	17	1.1	0.6	30.9	9000	12500	25.79	15.63	0.29
7208 C	36208	40	80	18	1.1	0.6	17	11000	14000	36.81	25.31	0.35
7208 AC	46208	40	80	18	1.1	0.6	23	9500	13000	35.2	23.75	0.35
7208 B	66208	40	80	18	1.1	0.6	34.2	8000	11000	31.29	20.07	0.37
7209 C	36209	45	85	19	1.1	0.6	18.3	10000	13000	38.67	27.96	0.40
7209 AC	46209	45	85	19	1.1	0.6	24.9	8700	12000	36.98	26.24	0.40
7209 B	66209	45	85	19	1.1	0.6	37.2	7000	10000	32.88	22.18	0.42
7210 C	36210	50	90	20	1.1	0.6	19.4	9500	12000	42.83	31.34	0.45
7210 AC	46210	50	90	20	1.1	0.6	26.3	8200	11000	40.81	30.31	0.45
7210 B	66210	50	90	20	1.1	0.6	39.4	6800	9500	36.41	24.85	0.47
7211 C	36211	55	100	21	1.5	0.6	20.9	8600	11000	52.98	39.5	0.59
7211 AC	46211	55	100	21	1.5	0.6	28.6	7400	9900	50.67	37.06	0.59
7211 B	66211	55	100	21	1.5	0.6	43	6200	8600	45.04	31.33	0.61
7212 C	36212	60	110	22	1.5	0.6	22.4	7900	10000	61.05	47.7	0.76
7212 AC	46212	60	110	22	1.5	0.6	30.8	6700	9000	58.38	44.76	0.76
7212 B	66212	60	110	22	1.5	0.6	46.7	5600	7900	51.9	37.83	0.78
7213 C	36213	65	120	23	1.5	0.6	23.9	7200	9300	69.88	54.08	0.95
7213 AC	46213	65	120	23	1.5	0.6	33.1	6200	8300	66.83	50.74	0.95
7213 B	66213	65	120	23	1.5	0.6	50.3	5200	7200	59.41	42.89	0.98
7214 C	36214	70	125	24	1.5	0.6	25.3	6800	8700	72.98	59.3	1.04
7214 AC	46214	70	125	24	1.5	0.6	35.1	5800	7700	69.8	55.64	1.04
7214 B	66214	70	125	24	1.5	0.6	53.5	4800	6800	62.05	47.02	1.10
7215 C	36215	75	130	25	1.5	0.6	26.5	6400	8200	79.29	65.19	1.14
7215 AC	46215	75	130	25	1.5	0.6	36.9	5500	7300	75.83	61.17	1.14
7215 B	66215	75	130	25	1.5	0.6	56.3	4600	6400	67.41	51.7	1.18
7216 C	36216	80	140	26	2	1	27.9	6000	7700	89.65	76.28	1.39
7216 AC	46216	80	140	26	2	1	38.9	5200	6900	85.74	71.57	1.39
7216 B	66216	80	140	26	2	1	59.6	4300	6000	76.22	60.49	1.45
7217 C	36217	85	150	28	2	1	29.9	5600	7200	99.85	84.21	1.73
7217 AC	46217	85	150	28	2	1	41.7	4800	6400	95.5	79.01	1.73
7217 B	66217	85	150	28	2	1	63.9	4000	5600	84.89	66.78	1.80
7218 C	36218	90	160	30	2	1	31.7	5300	6900	122.7	103.5	2.13
7218 AC	46218	90	160	30	2	1	44.1	4600	6100	117.4	97.14	2.13
7218 B	66218	90	160	30	2	1	67.4	3800	5300	104.3	82.1	2.20
7219 C	36219	95	170	32	2.1	1.1	33.8	5000	6500	134.6	112.2	2.58
7219 AC	46219	95	170	32	2.1	1.1	46.9	4300	5800	128.3	108.2	2.58
7219 B	66219	95	170	32	2.1	1.1	71.6	3600	5000	114.4	88.99	2.66
7220 C	36220	100	180	34	2.1	1.1	35.8	4800	6100	149.1	125.3	3.08
7220 AC	46220	100	180	34	2.1	1.1	49.6	4100	5500	142.6	117.6	3.08
7220 B	66220	100	180	34	2.1	1.1	75.7	3400	4800	126.8	99.43	3.17
7221 C	36221	105	190	36	2.1	1.1	37.8	4500	5800	162.4	141.2	3.66
7221 AC	46221	105	190	36	2.1	1.1	52.4	3900	5200	155.3	132.5	3.66
7221 B	66221	105	190	36	2.1	1.1	79.9	3200	4500	138.1	112	3.75
7222 C	36222	110	200	38	2.1	1.1	39.9	4300	5500	175.9	158.2	4.29
7222 AC	46222	110	200	38	2.1	1.1	55.4	3700	4900	168.3	148.5	4.29
7222 B	66222	110	200	38	2.1	1.1	84.4	3000	4300	149.6	125.5	4.39
7224 C	36224	120	215	40	2.1	1.1	42.4	4000	5100	189.7	177.1	6.06
7224 AC	46224	120	215	40	2.1	1.1	59.1	3400	4600	181.4	166.2	6.06
7224 B	66224	120	215	40	2.1	1.1	90.3	2900	4000	161.2	140.4	6.16
7226 AC	46226	130	230	40	3	1.1	72	3200	4000	196.0	198.0	6.21
7226 B	66226	130	230	40	3	1.1	95.5	2400	3200	177.0	180.0	6.21
7226 C	36226	130	230	40	3	1.1	44.1	4400	5800	213.0	214.0	6.21
7228 AC	46228	140	250	42	3	1.1	77.3	2900	3600	218.0	234.0	7.76

ANGULAR CONTACT BALL BEARINGS

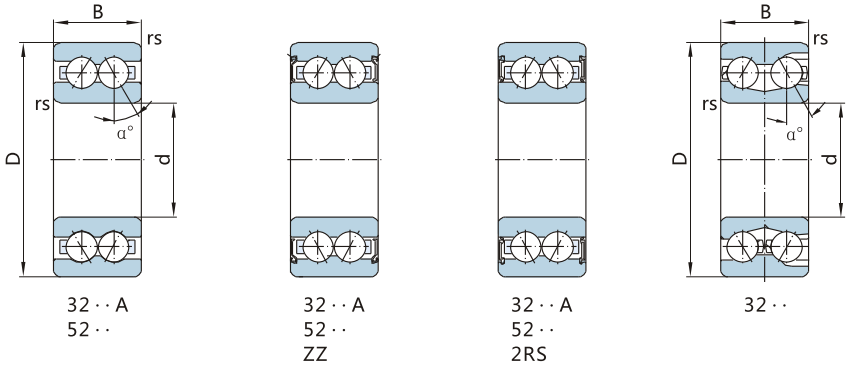
Bearing No.		Boundary Dimensions (mm)					Contact point (mm)	Speed rating (rpm)		Basic Load Rating (kN)		Weight (kg)
New type	Original type	d	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	a	Grease lubrication	Oil lubrication	Cr	Cor	
7228 B	66228	140	250	42	3	1.1	102.8	2200	2900	197.0	213.0	7.76
7228 C	36228	140	250	42	3	1.1	47.1	4000	5300	238.0	254.0	7.76
7230 AC	46230	150	270	45	3	1.1	83.1	2700	3300	248.0	280.0	9.75
7230 B	66230	150	270	45	3	1.1	110.6	2000	2700	225.0	254.0	9.75
7230 C	36230	150	270	45	3	1.1	50.6	3700	4900	270.0	303.0	9.75
7232 AC	46232	160	290	48	3	1.1	89	2500	3100	230.0	263.0	12.1
7232 B	66232	160	290	48	3	1.1	118.4	1800	2500	238.0	279.0	12.1
7232 C	36232	160	290	48	3	1.1	54.1	3400	4500	287.0	333.0	12.1
7234 AC	46234	170	310	52	4	1.5	95.3	2300	2800	272.0	331.0	15.1
7234 B	66234	170	310	52	4	1.5	126.7	1700	2300	245.0	300.0	15.1
7234 C	36234	170	310	52	4	1.5	58.2	3100	4200	297.0	359.0	15.1
7236 AC	46236	180	320	52	4	1.5	98.2	2200	2700	293.0	362.0	15.7
7236 B	66236	180	320	52	4	1.5	130.9	1600	2200	265.0	329.0	15.7
7236 C	36236	180	320	52	4	1.5	59.5	3000	4000	320.0	393.0	15.7
7238 AC	46238	190	340	55	4	1.5	104	2000	2500	303.0	390.0	18.8
7238 B	66238	190	340	55	4	1.5	138.7	1500	2000	273.0	353.0	18.8
7238 C	36238	190	340	55	4	1.5	63	2800	3700	331.0	424.0	18.8
7240 AC	46240	200	360	58	4	1.5	109.8	1900	2400	324.0	423.0	22.4
7240 B	66240	200	360	58	4	1.5	146.5	1400	1900	292.0	384.0	22.4
7240 C	36240	200	360	58	4	1.5	66.5	2600	3500	354.0	460.0	22.4
7302 AC	46302	15	42	13	1	0.3	13.4	19000	26000	12.62	6.33	0.06
7302 B	66302	15	42	13	1	0.3	18.9	16000	23000	11.22	5.35	0.07
7303 AC	46303	17	47	14	1	0.3	14.6	17000	23000	14.98	7.66	0.11
7303 B	66303	17	47	14	1	0.3	20.6	15000	21000	13.32	6.47	0.12
7304 AC	46304	20	52	15	1.1	0.6	15.9	16000	21000	17.9	9.62	0.14
7304 B	66304	20	52	15	1.1	0.6	22.6	13000	19000	16.15	8.7	0.15
7305 AC	46305	25	62	17	1.1	0.6	18.6	13000	18000	25.17	14.04	0.22
7305 B	66305	25	62	17	1.1	0.6	26.8	11000	15000	21.98	11.33	0.23
7306 AC	46306	30	72	19	1.1	0.6	21.6	11000	15000	29.51	17.91	0.33
7306 B	66306	30	72	19	1.1	0.6	31.3	9200	13000	25.99	14.54	0.35
7307 AC	46307	35	80	21	1.5	0.6	24.1	9800	13000	38.82	24.72	0.44
7307 B	66307	35	80	21	1.5	0.6	35	8200	11000	34.63	22.1	0.46
7308 AC	46308	40	90	23	1.5	0.6	26.8	8700	11500	47.45	31.15	0.61
7308 B	66308	40	90	23	1.5	0.6	39	7300	10000	41.75	25.28	0.64
7309 AC	46309	45	100	25	1.5	0.6	29.4	7900	10500	60.9	39.46	0.83
7309 B	66309	45	100	25	1.5	0.6	42.9	6600	9200	54.14	33.35	0.86
7310 AC	46310	50	110	27	2	1	32.3	7100	9500	72.13	49.24	1.05
7310 B	66310	50	110	27	2	1	47.3	5900	8300	64.35	43.88	1.10
7311 AC	46311	55	120	29	2	1	35.1	6500	8600	83.4	58.04	1.34
7311 B	66311	55	120	29	2	1	51.6	5400	7600	73.31	46.95	1.40
7312 AC	46312	60	130	31	2.1	1.1	37.6	6000	8000	99.99	70.48	1.68
7312 B	66312	60	130	31	2.1	1.1	55.4	5000	7000	88.89	59.57	1.75
7313 AC	46313	65	140	33	2.1	1.1	40.4	5600	7500	113.3	81.11	2.06
7313 B	66313	65	140	33	2.1	1.1	59.5	4700	6500	100.7	68.56	2.14
7314 AC	46314	70	150	35	2.1	1.1	43.1	5200	6900	121.2	88.25	2.50
7314 B	66314	70	150	35	2.1	1.1	63.7	4300	6100	106.8	71.65	2.60
7315 AC	46315	75	160	37	2.1	1.1	45.9	4900	6500	138.7	104.6	3.09
7315 B	66315	75	160	37	2.1	1.1	67.8	4100	5700	123.3	88.43	3.18
7316 AC	46316	80	170	39	2.1	1.1	48.6	4600	6100	150.3	117.5	3.55
7316 B	66316	80	170	39	2.1	1.1	71.9	3800	5300	133.6	99.37	3.65
7317 AC	46317	85	180	41	3	1.1	51.4	4300	5800	153.1	121	4.18
7317 B	66317	85	180	41	3	1.1	76.1	3600	5000	136.1	102.3	4.28
7318 AC	46318	90	190	43	3	1.1	54.1	4100	5500	174.4	146.5	4.88
7318 B	66318	90	190	43	3	1.1	80.2	3400	4800	155.0	123.8	5.00
7319 AC	46319	95	200	45	3	1.1	56.9	3900	5200	191.6	165.8	5.65
7319 B	66319	95	200	45	3	1.1	84.4	3200	4500	170.3	140.1	5.80



ANGULAR CONTACT BALL BEARINGS

Bearing No.		Boundary Dimensions (mm)					Contact point (mm)	Speed rating (rpm)		Basic Load Rating (kN) <sup>g</sup>		Weight (kg)
New type	Original type	d	D	B	r <sub>s min</sub>	r <sub>1s min</sub>	a	Grease lubrication	Oil lubrication	Cr	Cor	
7320 AC	46320	100	215	47	3	1.1	60.2	3600	4900	211.5	190.8	6.90
7320 B	66320	100	215	47	3	1.1	89.6	3000	4200	188.0	161.3	7.10
7321 AC	46321	105	225	49	3	1.1	72.1	3500	4400	208.0	193.0	8.62
7321 B	66321	105	225	49	3	1.1	93.7	2600	3500	191.0	177.0	8.62
7321 C	36321	105	225	49	3	1.1	46.6	4800	6400	223.0	207.0	8.62
7322 AC	46322	110	240	50	3	1.1	76.4	3200	4000	232.0	226.0	10.1
7322 B	66322	110	240	50	3	1.1	99.6	2400	3200	213.0	208.0	10.1
7322 C	36322	110	240	50	3	1.1	48.8	4500	5900	249.0	242.0	10.1
7324 AC	46324	120	260	55	3	1.1	82.3	3000	3700	246.0	252.0	12.6
7324 B	66324	120	260	55	3	1.1	107.2	2200	3000	225.0	231.0	12.6
7324 C	36324	120	260	55	3	1.1	53	4100	5500	265.0	271.0	12.6
7326 AC	46326	130	280	58	4	1.5	88.8	2700	3400	301.0	329.0	15.4
7326 B	66326	130	280	58	4	1.5	115	2100	2700	250.0	268.0	15.4
7326 C	36326	130	280	58	4	1.5	56.5	3800	5000	294.0	314.0	15.4
7328 AC	46328	140	300	62	4	1.5	94.5	2500	3200	329.0	374.0	18.8
7328 B	66328	140	300	62	4	1.5	123.3	1900	2500	302.0	344.0	18.8
7328 C	36328	140	300	62	4	1.5	60.5	3500	4600	353.0	401.0	18.8
7330 AC	46330	150	320	65	4	1.5	100.3	2300	2900	348.0	414.0	22.4
7330 B	66330	150	320	65	4	1.5	131.1	1800	2300	318.0	380.0	22.4
7330 C	36330	150	320	65	4	1.5	64	3200	4300	374.0	445.0	22.4
7332 AC	46332	160	340	68	4	1.5	106.2	2200	2700	365.0	455.0	26.4
7332 B	66332	160	340	68	4	1.5	138.9	1600	2200	332.0	416.0	26.4
7332 C	36332	160	340	68	4	1.5	67.5	3000	4000	394.0	490.0	26.4
7334 AC	46334	170	360	72	4	1.5	112.5	2000	2500	389.0	485.0	31.2
7334 B	66334	170	360	72	4	1.5	147.2	1500	2000	355.0	444.0	31.2
7334 C	36334	170	360	72	4	1.5	71.5	2800	3700	418.0	521.0	31.2
HFD048030		184	226	19	1	0.6	69	2800	3700	74.3	104.9	1.33

DOUBLE ROW ANGULAR CONTACT BALL BEARINGS



Bearing No.				Boundary Dimensions (mm)				Basic Load Rating (kN)		Weight (kg)
Standard type		Non-standard type		d	D	B	r <sub>s min</sub>	Cr	Cor	
Current symbol	Original symbol	Shield	Seal							
3203 A	5203	ZZ	2RS	17	40	17.5	0.6	12.8	7.9	0.085
3204 A	5204	ZZ	2RS	20	47	20.6	1	19.0	12.1	0.12
3205 A	5205	ZZ	2RS	25	52	20.6	1	20.6	14.3	0.19
3206 A	5206	ZZ	2RS	30	62	23.8	1	28.6	20.4	0.30

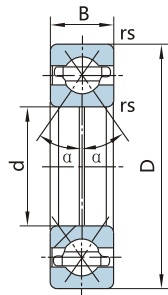
DOUBLE ROW ANGULAR CONTACT BALL BEARINGS

Bearing No.				Boundary Dimensions (mm)				Basic Load Rating (kN)		Weight (kg)
Standard type		Non-standard type		d	D	B	r <sub>s min</sub>	Cr	Cor	
Current symbol	Original symbol	Shield	Seal							
3207 A	5207	ZZ	2RS	35	72	27	1.1	39.0	28.7	0.47
3208 A	5208	ZZ	2RS	40	80	30.2	1.1	42.5	32.5	0.58
3209 A	5209	ZZ	2RS	45	85	30.2	1.1	48.0	37.0	0.62
3210 A	5210	ZZ	2RS	50	90	30.2	1.1	51.0	42.0	0.67
3211 A	5211	ZZ	2RS	55	100	33.3	1.5	63.0	53.0	0.96
3212 A	5212	ZZ	2RS	60	110	36.5	1.5	71.5	58.5	1.37
3213 A	5213	ZZ	2RS	65	120	38.1	1.5	83.5	72.5	1.68
3214 A	5214	ZZ	2RS	70	125	39.7	1.5	90.5	79.5	1.82
3215 A	5215	ZZ	2RS	75	130	41.3	1.5	90.0	80.5	1.95
3216 A	5216	ZZ	2RS	80	140	44.4	2	106	95.5	2.55
3303 A	5303	ZZ	2RS	17	47	22.2	1	20.4	12.1	0.13
3304 A	5304	ZZ	2RS	20	52	22.2	1.1	20.6	12.7	0.22
3305 A	5305	ZZ	2RS	25	62	25.4	1.1	30.5	20.5	0.33
3306 A	5306	ZZ	2RS	30	72	30.2	1.1	39.5	27.5	0.51
3307 A	5307	ZZ	2RS	35	80	34.9	1.5	49.5	35.0	0.80
3308 A	5308	ZZ	2RS	40	90	36.5	1.5	60.5	44.0	1.08
3309 A	5309	ZZ	2RS	45	100	39.7	1.5	72.5	54.0	1.45
3310 A	5310	ZZ	2RS	50	110	44.4	2	85.5	64.5	1.98
3311 A	5311	ZZ	2RS	55	120	49.2	2	106	82.0	2.35
3312 A	5312	ZZ	2RS	60	130	54	2.1	122	95.5	3.20
3313 A	5313	ZZ	2RS	65	140	58.7	2.1	138	109	3.90
3314 A	5314	ZZ	2RS	70	150	63.5	2.1	155	125	4.95
3315 A	5315	ZZ	2RS	75	160	68.3	2.1	168	141	5.7
3316 A	5316	ZZ	2RS	80	170	68.3	2.1	176	167	7.0

Bearing No.	Boundary Dimensions (mm)				Basic Load Rating (kN)		Weight (kg)
	d	D	B	r <sub>s min</sub>	Cr	Cor	
3203	17	40	17.5	0.6	14.1	11.9	0.098
3204	20	47	20.6	1	17.4	15.3	0.168
3205	25	52	20.6	1	19.2	18.5	0.185
3206	30	62	23.8	1	27.5	27.6	0.302
3207	35	72	27	1.1	37.3	38.2	0.458
3208	40	80	30.2	1.1	40.5	45.1	0.626
3209	45	85	30.2	1.1	46.4	52.2	0.678
3210	50	90	30.2	1.1	52.5	60.2	0.698
3211	55	100	33.3	1.5	65.8	76.7	1.06
3212	60	110	36.5	1.5	70.4	88.2	1.34
3213	65	120	38.1	1.5	77.8	99.3	1.66
3214	70	125	39.7	1.5	85.9	110	1.85
3215	75	130	41.3	1.5	93.8	122	2.02
3216	80	140	44.4	2	104	131	2.70
3303	17	47	22.2	1	17.4	15.1	0.185
3304	20	52	22.2	1.1	21.0	18.7	0.220
3305	25	62	25.4	1.1	29.2	26.9	0.352
3306	30	72	30.2	1.1	38.8	36.7	0.556
3307	35	80	34.9	1.5	49.4	47.7	0.756
3308	40	90	36.5	1.5	54.4	57.8	1.02
3309	45	100	39.7	1.5	67.3	72.6	1.38
3310	50	110	44.4	2	81.3	89.8	1.98
3311	55	120	49.2	2	96.4	108	2.41
3312	60	130	54	2.1	112	128	3.06
3313	65	140	58.7	2.1	130	151	3.90
3314	70	150	63.5	2.1	152	169	5.20
3315	75	160	68.3	2.1	171	193	6.30
3316	80	170	68.3	2.1	188	210	7.90

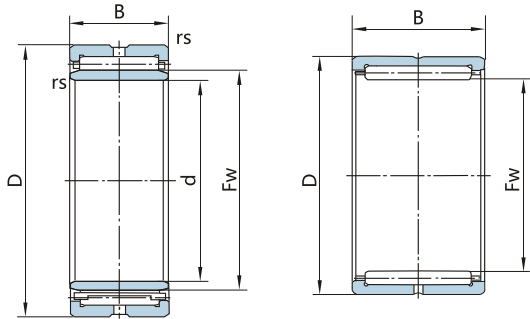


FOUR-POINT CONTACT BALL BEARINGS



Bearing No.	Boundary Dimensions (mm)				Basic Load Rating (kN)		Weight (kg)
	d	D	B	r <sub>s min</sub>	Cr	Cor	
QJ 206M	30	62	16	1	35.1	28.5	0.254
QJ 207M	35	72	17	1.1	46.2	39.0	0.359
QJ 208NRM	40	80	18	1.1	52.7	45.0	0.48
QJ 209M	45	85	19	1.1	58.5	51.0	0.467
QJ 210M	50	90	20	1.1	61.8	56.0	0.697
QJ 211M	55	100	21	1.5	79.3	76.5	0.78
QJ 212M	60	110	22	1.5	92.3	86.5	1.0
QJ 216MA	80	140	26	2	132.4	137	1.739
QJ 305M	25	62	17	1.1	42.0	33.0	0.256
QJ 306M	30	72	19	1.1	49.4	39.0	0.379
QJ 307NRM/C3	35	80	21	1.5	59.2	46.5	0.58
QJ 308NRM/C3	40	90	23	1.5	71.5	58.5	0.704
QJ 309NRM/C3	45	100	25	1.5	93.6	76.5	0.934
QJ 310M	50	110	27	2	111	91.5	1.39

NEEDLE ROLLER BEARINGS



Bearing No.	Boundary Dimensions (mm)					Basic Load Rating (kN)		Weight (kg)
	d	Fw	D	B	r <sub>s</sub>	Cr	Cor	
NKI 20/16	20	24	32	16	0.3	15.2	22.2	0.049
NKI 20/20	20	24	32	20	0.3	19.2	30.2	0.061
NKI 203316	20	24	33	16	0.3	15.2	22.2	0.051
NKI 25/20	25	29	38	20	0.3	22.2	34.0	0.079
NKI 25/30	25	29	38	30	0.3	33.5	58.0	0.124
NKI 28/20	28	32	42	20	0.3	23.5	37.8	0.097
NKI 28/30	28	32	42	30	0.3	35.5	64.2	0.146
NKI 30/20	30	35	45	20	0.3	24.8	41.5	0.112
NKI 30/30	30	35	45	30	0.3	37.5	70.5	0.170
NKI 35/20	35	40	50	20	0.3	26.5	47.2	0.127
NKI 35/30	35	40	50	30	0.3	40.0	80.2	0.193
NKI 40/20	40	45	55	20	0.3	28.0	52.8	0.142

NEEDLE ROLLER BEARINGS

Bearing No.	Boundary Dimensions (mm)					Basic Load Rating (kN)		Weight (kg)
	d	Fw	D	B	r <sub>s</sub>	Cr	Cor	
NKI 40/30	40	45	55	30	0.3	42.5	89.8	0.216
NKI 50/25	50	—	68	25	0.6	40.2	88.0	0.270
NK 24/16	—	24	32	16	0.3	15.2	22.2	0.032
NK 24/20	—	24	32	20	0.3	19.2	30.2	0.040
NK 25/16	—	25	33	16	0.3	15.1	24.5	0.033
NK 25/20	—	25	33	20	0.3	19.0	32.5	0.042
NK 26/16	—	26	34	16	0.3	15.7	26.0	0.034
NK 26/20	—	26	34	20	0.3	19.4	34.5	0.042
NK 28/20	—	28	37	20	0.3	22.0	36.5	0.052
NK 28/30	—	28	37	30	0.3	31.9	60.0	0.082
NK 29/20	—	29	38	20	0.3	22.2	34.0	0.054
NK 29/30	—	29	38	30	0.3	33.5	58.0	0.084
NK 30/20	—	30	40	20	0.3	22.9	38.0	0.065
NK 30/30	—	30	40	30	0.3	33.0	63.0	0.098
NK 32/20	—	32	42	20	0.3	23.5	37.8	0.068
NK 32/30	—	32	42	30	0.3	35.5	64.2	0.102
NK 35/20	—	35	45	20	0.3	24.8	41.5	0.074
NK 35/30	—	35	45	30	0.3	37.8	70.5	0.112
NK 40/20	—	40	50	20	0.3	26.5	47.2	0.083
NK 40/30	—	40	50	30	0.3	40.0	80.2	0.125
NK 45/20	—	45	55	20	0.3	28.0	52.8	0.092
NK 45/30	—	45	55	30	0.3	42.5	89.8	0.139
NK 50/25	—	50	62	25	0.6	38.0	78.0	0.161
NK 50/35	—	50	62	35	0.6	49.0	110	0.221
NK 70/25	—	70	85	25	0.6	44.6	98.0	0.262
NK 70/35	—	70	85	35	0.6	63.0	144	0.372
NK 122834	—	12	28	34	0.6	31.8	38.6	0.123
NK 123234	—	12	32	34	0.6	31.8	38.6	0.173
NK 405214	—	40	52	14	0.6	24.2	34.5	0.071
NK 506212	—	50	62	12	0.6	18.5	32.0	0.079
NK 506412	—	50	64	12	0.6	18.5	32.1	0.098
NK 506414	—	50	64	14	0.6	26.5	41.5	0.108
NA 4830	150	—	190	40	1.1	147	415	2.73
NA 4911	55	63	80	25	1.5	51.4	105	0.442
NA 4914	70	80	100	30	1.5	84.0	156	0.811
NAV 4004	20	—	42	22	0.3	37.7	62.3	0.172
NAV 4904	20	—	37	17	0.3	39.4	46.0	0.103
NAV 4905	25	—	42	17	0.3	44.0	55.7	0.115
NAV 4906	30	—	47	17	0.3	48.0	65.3	0.131
NAV 4907	35	—	55	20	0.6	59.6	91.4	0.206
RNAV 4006	—	40.1	55	25	0.3	54.5	98.3	0.191
RNAV 4904	—	25	37	17	0.3	39.4	46.0	0.082
RNAV 4905	—	30	42	17	0.3	44.0	55.7	0.093
RNAV 4906	—	35	47	17	0.6	48.0	65.3	0.105
RNAV 4907	—	42	55	20	0.6	59.6	91.4	0.131

We can supply K/K-W/HK/BK series bearings.

Bearing No.	Boundary Dimensions (mm)			Basic Load Rating (kN)		Weight (kg)
	Fw	Ew	B	Cr	Cor	
KNL 25×38×24.7	25	38	24.7	51.5	47.4	0.085
K 40×48×20	40	48	20	33.0	51.0	0.052





Precision angular contact ball bearing



High speed bearings



Precision angular contact thrust ball bearing single direction for ball screw and nut assemblies



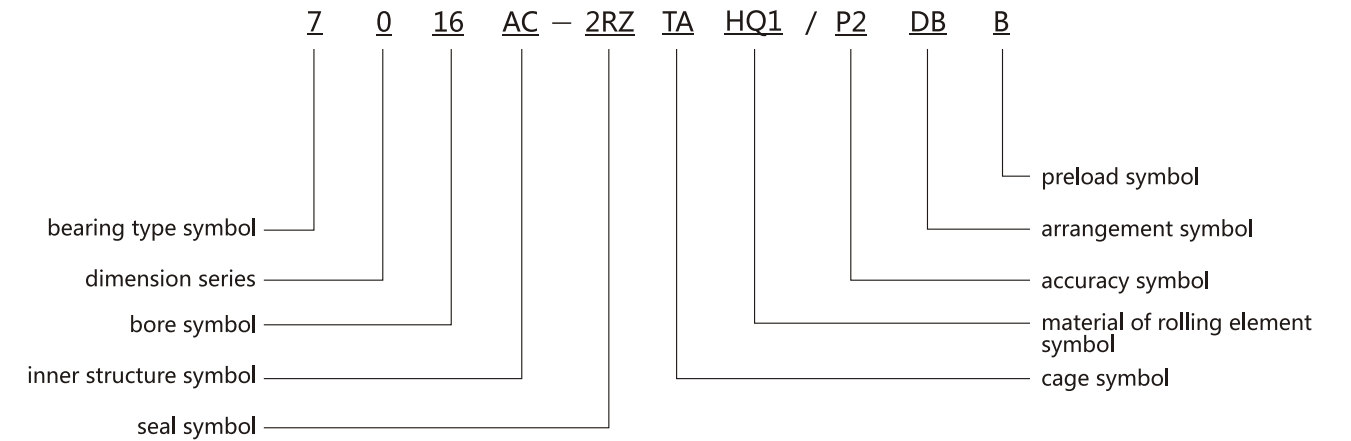
High speed ceramic ball bearings



Double row cylindrical roller bearing



YSRT Rotary table bearing



bearing type symbol : 7—angular contact ball bearing ; H7-High speed angular contact ball bearing

dimension series : 19—19 series ; 0—0 series ; 2—2 series

bore symbol : bore symbol×5=bearing bore diameter

inner structure symbol : C—15°contact angle ; AC—25°contact angle; D—18° contact angle

Seal symbol : No symbol—open type; 2RZ—Two sides of the bearing with non contact; frame-rubber seals

cage symbol : TA—outer ring guided phenolic resin cage ; TN—polymide cage

material of rolling element symbol : No symbol—carbon chromium steel ; HQ1—ceramic

accuracy symbol : P5—ISO5(ABEC5) ; P4—ISO4(ABEC7) ; P2—ISO2(ABEC9)

arrangement symbol : G—Arrangement in any combination ; DB—two bearings arranged back-to-back ;

DF—two bearings arranged face-to-face

DT—two bearings arranged in tandem TBT, TFT, TT three bearings in arrangement

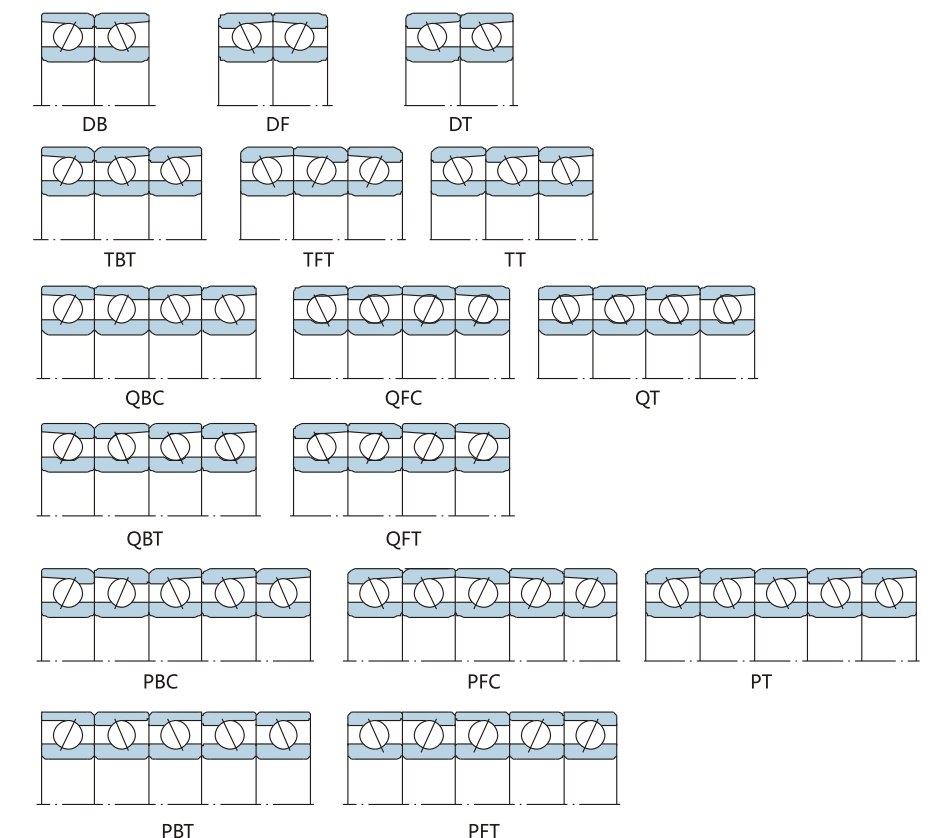
QBC, QFC, QT, QBT, QFT four bearings in arrangement

PBC, PFC, PT, PBT, PFT five bearings in arrangement

preload symbol : A—light preload ; B—medium preload ; C—heavy preload.

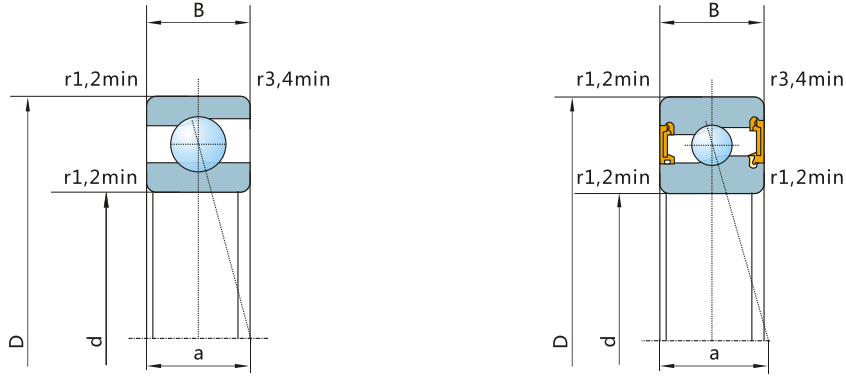
## Matching type

For types and datas of precision bearings, please refer to the precision bearing catalogue.



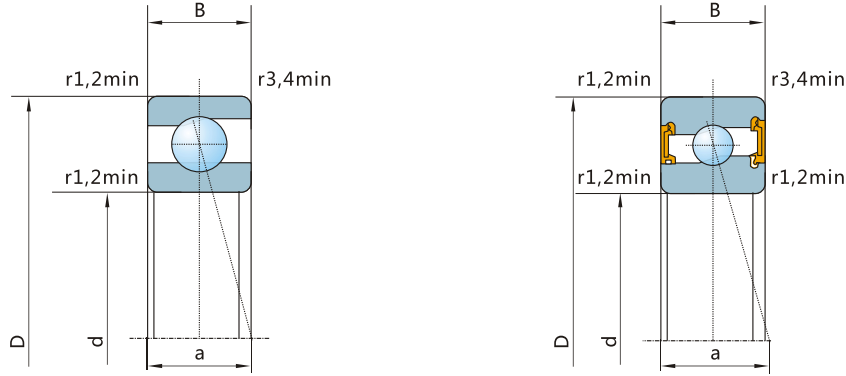


HIGH PRECISION ANGULAR CONTACT BALL BEARING



d	D	B	r1,r2	r3,r4	Sbasic load ratings		Contact point (mm)	Speed Rating(r/min)		Weight (kg)	Bearing No.
					Cr	Cor		Oil lubrication	Grease lubrication		
					KN	KN					
mm			min	min	KN	KN					
10	22	6	0.3	0.15	2.83	1.38	5.1	110000	71000	0.009	71900CTA
	22	6	0.3	0.15	2.8	1.36	5.6	106000	68500	0.009	71900DTA
	22	6	0.3	0.15	2.7	1.31	6.7	100000	65000	0.009	71900ACTA
	26	8	0.3	0.15	4.48	2.28	6.4	98000	65000	0.02	7000CTA
	26	8	0.3	0.15	4.44	2.26	6.9	94000	62000	0.02	7000DTA
	26	8	0.3	0.15	4.3	2.2	8.2	87000	58000	0.02	7000ACTA
	30	9	0.6	0.3	6.42	2.94	7.2	87000	59000	0.03	7200CTA
	30	9	0.6	0.3	6.22	2.85	9.2	78000	53000	0.03	7200ACTA
12	24	6	0.3	0.15	3.36	1.86	5.4	100000	65000	0.011	71901CTA
	24	6	0.3	0.15	3.32	1.84	5.9	96000	62000	0.011	71901DTA
	24	6	0.3	0.15	3.2	1.77	7.2	89000	57000	0.011	71901ACTA
	28	8	0.3	0.15	5.8	2.9	6.7	88000	58000	0.02	7001CTA
	28	8	0.3	0.15	5.75	5.87	7.2	85000	55500	0.02	7001DTA
	28	8	0.3	0.15	5.58	2.79	8.7	78000	52000	0.02	7001ACTA
	32	10	0.6	0.3	7.07	3.46	7.9	80000	54000	0.037	7201CTA
	32	10	0.6	0.3	6.82	3.33	10.1	71000	48000	0.037	7201ACTA
15	28	7	0.3	0.1	4.76	2.64	6.4	85000	56000	0.015	71902CTA
	28	7	0.3	0.1	4.71	2.61	7	82000	53500	0.015	71902DTA
	28	7	0.3	0.1	4.54	2.53	8.5	75000	50000	0.015	71902ACTA
	32	9	0.3	0.1	6.62	3.7	7.6	75000	50000	0.028	7002CTA
	32	9	0.3	0.1	6.55	3.66	8.3	72000	48000	0.028	7002DTA
	32	9	0.3	0.1	6.33	3.53	10	67000	45000	0.028	7002ACTA
	35	11	0.6	0.3	8.68	4.56	8.9	70000	48000	0.043	7202CTA
	35	11	0.6	0.3	8.35	4.39	11.4	63000	43000	0.043	7202ACTA
17	30	7	0.3	0.1	5	2.94	6.6	75000	50000	0.017	71903CTA
	30	7	0.3	0.1	4.95	2.9	7.3	72000	48000	0.017	71903DTA
	30	7	0.3	0.1	4.77	2.8	9	67000	45000	0.017	71903ACTA
	35	10	0.3	0.1	6.97	4.12	8.5	70000	48000	0.037	7003CTA
	35	10	0.3	0.1	6.89	4.09	9.2	67000	45000	0.037	7003DTA
	35	10	0.3	0.1	6.65	3.95	11.1	60000	40000	0.037	7003ACTA
	40	12	0.6	0.3	10.88	5.87	9.9	63000	43000	0.062	7203CTA
	40	12	0.6	0.3	10.46	5.64	12.8	56000	38000	0.062	7203ACTA
20	37	9	0.3	0.15	7.3	4.56	8.3	63000	43000	0.035	71904CTA
	37	9	0.3	0.15	7.21	4.51	9.1	61000	41500	0.035	71904DTA
	37	9	0.3	0.15	6.94	4.36	11.1	56000	38000	0.035	71904ACTA
	42	12	0.6	0.3	11.1	6.56	10.2	56000	38000	0.065	7004CTA
	42	12	0.6	0.3	11	6.49	11	52000	36500	0.065	7004DTA
	42	12	0.6	0.3	10.6	6.27	13.2	50000	34000	0.065	7004ACTA
	47	14	1	0.3	15.6	9	11.6	53000	36000	0.1	7204CTA/P4
	47	14	1	0.3	15	8.63	15	48000	32000	0.1	7204ACTA/P4
25	42	9	0.3	0.15	7.84	5.42	9	53000	36000	0.042	71905CTA
	42	9	0.3	0.15	7.74	5.35	9.9	51500	35000	0.042	71905DTA
	42	9	0.3	0.15	7.43	5.14	12.3	48000	32000	0.042	71905ACTA
	47	12	0.6	0.3	12.3	8.01	10.8	50000	34000	0.075	7005CTA
	47	12	0.6	0.3	12.1	7.92	11.8	47500	32000	0.075	7005DTA
	47	12	0.6	0.3	10.8	11.7	7.6	43000	28000	0.075	7005ACTA
	52	15	1	0.3	16.6	10.3	12.7	45000	30000	0.14	7205CTA
	52	15	1	0.3	15.9	9.8	16.6	40000	26000	0.14	7205ACTA
30	47	9	0.3	0.15	8.31	6.27	9.7	45000	30000	0.048	71906CTA
	47	9	0.3	0.15	8.2	6.19	10.8	43500	29000	0.048	71906DTA
	47	9	0.3	0.15	7.86	5.94	13.5	40000	26000	0.048	71906ACTA
	55	13	1	0.3	15.8	11	12.3	43000	28000	0.11	7006CTA

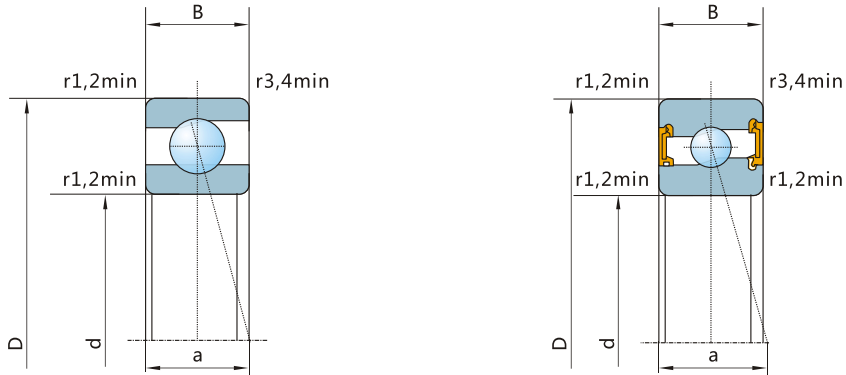
HIGH PRECISION ANGULAR CONTACT BALL BEARING



d	D	B	r1,r2	r3,r4	Sbasic load ratings		Contact point (mm)	Speed Rating(r/min)		Weight (kg)	Bearing No.
					Cr	Cor		Oil lubrication	Grease lubrication		
					KN	KN					
mm			min	min	KN	KN					
30	55	13	1	0.3	15.7	10.9	13.5	41500	27000	0.11	7006DTA
	55	13	1	0.3	15.1	10.5	16.5	38000	24000	0.11	7006ACTA
	62	16	1	0.3	23	14.8	14.2	38000	24000	0.19	7206CTA
	62	16	1	0.3	22	14.1	18.8	34000	20000	0.19	7206ACTA
35	55	10	0.6	0.15	11.36	9.01	11	40000	26000	0.074	71907CTA
	55	10	0.6	0.15	11.21	8.9	12.3	38500	25000	0.074	71907DTA
	55	10	0.6	0.15	10.74	8.53	15.5	36000	22000	0.074	71907ACTA
	62	14	1	0.3	19.1	13.65	13.5	36000	22000	0.15	7007CTA
	62	14	1	0.3	18.9	13.5	14.9	35000	21000	0.15	7007DTA
	62	14	1	0.3	18.2	13.1	18.3	32000	19000	0.15	7007ACTA
	72	17	1.1	0.3	30.4	20	15.7	34000	20000	0.28	7207CTA
	72	17	1.1	0.3	29.1	19.1	21	30000	18000	0.28	7207ACTA
	62	12	0.6	0.15	14.47	11.76	12.8	34000	20000	0.11	71908CTA
40	62	12	0.6	0.15	14.28	11.61	14.3	33000	19500	0.11	71908DTA
	62	12	0.6	0.15	13.68	11.14	17.9	30000	18000	0.11	71908ACTA
	68	15	1	0.3	20.6	15.9	14.7	32000	19000	0.19	7008CTA
	68	15	1	0.3	20.3	15.7	16.3	31500	18500	0.19	7008DTA
	68	15	1	0.3	19.5	15.1	20.1	30000	18000	0.19	7008ACTA
	80	18	1.1	0.6	36.3	25.2	17	30000	18000	0.36	7208CTA
	80	18	1.1	0.6	34.7	24.1	23	26000	16000	0.36	7208ACTA
	68	12	0.6	0.15	15.18	13.2	13.6	32000	19000	0.13	71909CTA
45	68	12	0.6	0.15	14.98	13.04	15.2	31000	18500	0.13	71909DTA
	68	12	0.6	0.15	14.33	12.54	19.2	28000	17000	0.13	71909ACTA
	75	16	1	0.3	24.4	19.3	16	30000	18000	0.23	7009CTA
	75	16	1	0.3	24.1	19	17.7	29000	17500	0.23	7009DTA
	75	16	1	0.3	23.1	18.3	22	26000	16000	0.23	7009ACTA
	85	19	1.1	0.6	38.1	27.9	18.3	28000	17000	0.41	7209CTA
	85	19	1.1	0.6	36.3	26.7	24.9	24000	15000	0.41	7209ACTA
	72	12	0.6	0.15	14.95	13.4	14.2	28000	17000	0.15	71910CTA
50	72	12	0.6	0.15	14.74	13.22	15.9	27500	16700	0.15	71910DTA
	72	12	0.6	0.15	14.1	12.62	20.2	26000	16000	0.15	71910ACTA
	80	16	1	0.3	26	21.8	16.7	28000	17000	0.25	7010CTA
	80	16	1	0.3	25.6	21.6	18.6	27000	16500	0.25	7010DTA
	80	16	1	0.3	24.6	20.8	23.2	24000	15000	0.25	7010ACTA
	90	20	1.1	0.6	42.8	31.7	19.4	26000	16000	0.46	7210CTA
	90	20	1.1	0.6	40.8	30.3	26.3	22000	14000	0.46	7210ACTA
	80	13	1	0.3	22.9	20.5	15.5	26000	16000	0.18	71911CTA
55	80	13	1	0.3	22.6	20.2	17.5	25500	15700	0.18	71911DTA
	80	13	1	0.3	21.6	19.4	22.2	24000	15000	0.18	71911ACTA
	90	18	1.1	0.6	34.1	28.6	18.7	24000	15000	0.37	7011CTA
	90	18	1.1	0.6	33.7	28.2	20.8	23500	14700	0.37	7011DTA
	90	18	1.1	0.6	32.4	27.2	25.9	22000	14000	0.37	7011ACTA
	100	21	1.5	0.6	52.9	39.9	20.9	22000	14000	0.61	7211CTA
	100	21	1.5	0.6	50.5	38.2	28.6	20000	13000	0.61	7211ACTA
	85	13	1	0.3	24	22.7	16.2	24000	15000	0.19	71912CTA
60	85	13	1		23.6	22.4	18.3	23500	14700	0.19	71912DTA
	85	13	1	0.3	22.6	21.6	23.4	22000	14000	0.19	71912ACTA
	95	18	1.1	0.6	35	20.6	19.4	22000	14000	0.4	7012CTA
	95	18	1.1	0.6	34.6	30.2	21.6	21500	13700	0.4	7012DTA
	95	18	1.1	0.6	33.2	29.1	27.1	20000	13000	0.4	7012ACTA
	110	22	1.5	0.6	58.3	45.1	22.4	20000	13000	0.8	7212CTA
	110	22	1.5	0.6	55.6	43	30.8	18000	11000	0.8	7212ACTA

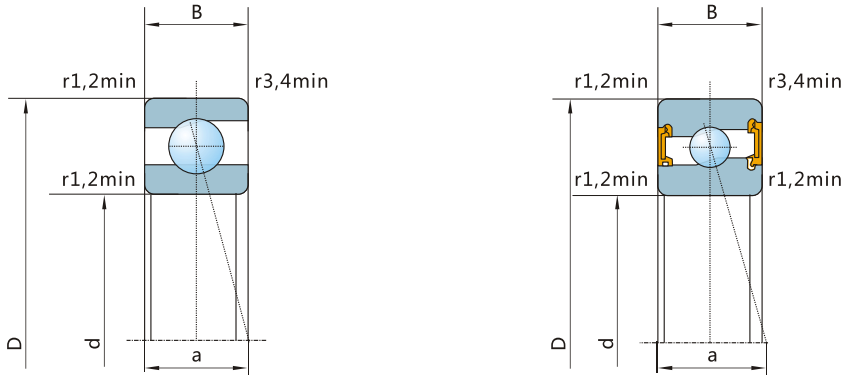


HIGH PRECISION ANGULAR CONTACT BALL BEARING



d	D	B	r1,r2	r3,r4	Sbasic load ratings		Contact point (mm)	Speed Rating(r/min)		Weight (kg)	Bearing No.
					Cr	Cor		Oil lubrication	Grease lubrication		
					KN	KN					
mm			min	min	KN	KN					
65	90	13	1	0.3	24.3	24	16.9	22000	14000	0.21	71913CTA
	90	13	1	0.3	24	23.6	19.1	21500	13700	0.21	71913DTA
	90	13	1	0.3	23	22.6	24.6	20000	13000	0.21	71913ACTA
	100	18	1.1	0.6	40.1	35.4	20.1	22000	14000	0.42	7013CTA
	100	18	1.1	0.6	39.6	34.9	22.4	21000	13400	0.42	7013DTA
	100	18	1.1	0.6	38	33.7	28.2	19000	12000	0.42	7013ACTA
	120	23	1.5	0.6	69.8	54.8	23.9	19000	12000	1	7213CTA
	120	23	1.5	0.6	66.6	52.3	33.1	17000	10000	1	7213ACTA
70	100	16	1	0.3	33.5	32.6	19.4	20000	13000	0.33	71914CTA
	100	16	1	0.3	33	32.2	21.8	19500	12500	0.33	71914DTA
	100	16	1	0.3	31.5	30.9	27.8	18000	11000	0.33	71914ACTA
	110	20	1.1	0.6	48.3	43.2	22.1	19000	12000	0.59	7014CTA
	110	20	1.1	0.6	47.7	42.7	24.6	18500	11500	0.59	7014DTA
	110	20	1.1	0.6	45.7	41.1	31	17000	10000	0.59	7014ACTA
	125	24	1.5	0.6	72.9	59.8	25.3	18000	11000	1.1	7214CTA
	125	24	1.5	0.6	69.4	57.1	35.1	16000	9500	1.1	7214ACTA
75	105	16	1	0.3	33.1	32.9	20.1	19000	12000	0.35	71915CTA
	105	16	1	0.3	32.6	32.5	22.6	18500	11500	0.35	71915DTA
	105	16	1	0.3	31.2	31.1	29	17000	10000	0.35	71915ACTA
	115	20	1.1	0.6	49.5	46.2	22.9	18000	11000	0.62	7015CTA
	115	20	1.1	0.6	18.8	45.6	25.6	17500	10600	0.62	7015DTA
	115	20	1.1	0.6	46.8	43.8	32.4	16000	9500	0.62	7015ACTA
	130	25	1.5	0.6	79.2	65.7	26.5	17000	10000	1.2	7215CTA
	130	25	1.5	0.6	75.4	62.8	36.9	15000	90000	1.2	7215ACTA
80	110	16	1	0.3	34.6	36	20.7	18000	11000	0.37	71916CTA
	110	16	1	0.3	34.1	35.5	23.4	17500	10600	0.37	71916DTA
	110	16	1	0.3	32.6	33.9	30.1	16000	9500	0.37	71916ACTA
	125	22	1.1	0.6	58.7	55.2	24.7	17000	10000	0.85	7016CTA
	125	22	1.1	0.6	57.9	54.5	27.7	16500	9700	0.85	7016DTA
	125	22	1.1	0.6	55.6	52.5	34.9	15000	9000	0.85	7016ACTA
	140	26	2	1	89.5	76.7	27.7	16000	9500	1.45	7216CTA
	140	26	2	1	85.2	73.4	38.6	14000	8500	1.45	7216ACTA
85	120	18	1.1	0.6	45.1	46.5	22.7	17000	10000	0.53	71917CTA
	120	18	1.1	0.6	44.5	46	25.7	16500	9700	0.53	71917DTA
	120	18	1.1	0.6	42.6	44.1	32.9	15000	9000	0.53	71917ACTA
	130	22	1.1	0.6	60.2	58.6	25.4	16000	9500	0.89	7017CTA
	130	22	1.1	0.6	59.4	57.9	28.5	15500	9200	0.89	7017DTA
	130	22	2	1	56.9	55.5	36.1	14000	8500	0.89	7017ACTA
	150	28	1.1	0.6	99.7	84.7	29.7	15000	9000	1.8	7217CTA
	150	28	1.1	0.6	95	80.9	41.4	13000	8000	1.8	7217ACTA
90	125	18	1.1	0.6	45.9	48.9	23.4	16000	9500	0.55	71918CTA
	125	18	1.1	0.6	45.3	48.2	26.5	15500	9200	0.55	71918DTA
	125	18	1.1	0.6	43.3	46.1	34.1	14000	8500	0.55	71918ACTA
	140	24	1.5	0.6	66.6	65.8	27.4	15000	9000	1.15	7018CTA
	140	24	1.5	0.6	65.7	65	30.7	14500	8700	1.15	7018DTA
	140	24	2	1	63	62.4	38.8	13000	8000	1.15	7018ACTA
	160	30	2	1	123	105	31.7	14000	8500	2.25	7218CTA
	160	30	2	1	117	100	44.1	12000	7500	2.25	7218ACTA
95	130	18	1.1	0.6	46.7	51	24.1	15000	9000	0.58	71919CTA
	130	18	1.1	0.6	46	50.3	27.3	14700	8800	0.58	71919DTA
	130	18	1.1	0.6	44.1	48	35.2	14000	8500	0.58	71919ACTA
	145	24	1.5	0.6	73.5	73.2	28.1	14000	8500	1.2	7019CTA

HIGH PRECISION ANGULAR CONTACT BALL BEARING

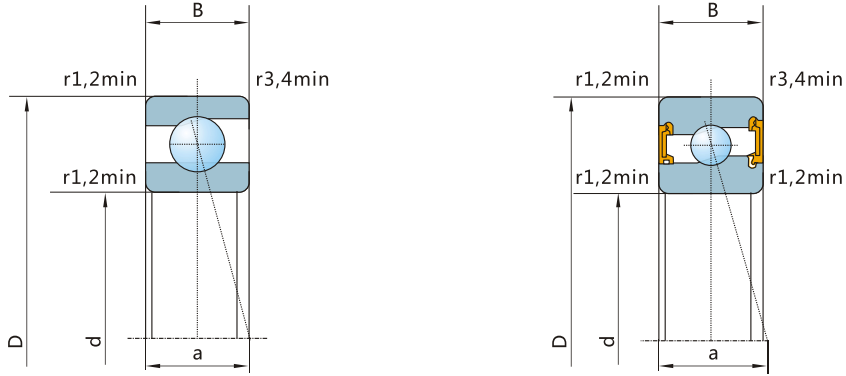


d	D	B	r1,r2	r3,r4	Sbasic load ratings		Contact point (mm)	Speed Rating(r/min)		Weight (kg)	Bearing No.
					Cr	Cor		Oil lubrication	Grease lubrication		
					KN	KN					
mm			min	min	KN	KN					
95	145	24	1.5	0.6	72.6	72.3	31.5	13700	8400	1.2	7019DTA
	145	24	1.5	0.6	69.5	69.4	40	13000	8000	1.2	7019ACTA
	170	32	2.1	1.1	139	120	33.8	13000	8000	2.7	7219CTA
	170	32	2.1	1.1	132	114	46.9	12000	7500	2.7	7219ACTA
100	140	20	1.1	0.6	58.7	63.6	26.1	14000	8500	0.8	71920CTA
	140	20	1.1	0.6	57.9	62.8	29.5	13700	8300	0.8	71920DTA
	140	20	1.1	0.6	55.4	60.1	38	13000	8000	0.8	71920ACTA
	150	24	1.5	0.6	80.8	80.9	28.7	14000	8500	1.25	7020CTA
	150	24	1.5	0.6	79.7	79.9	32.3	13500	8200	1.25	7020DTA
	150	24	1.5	0.6	76.4	76.7	41.1	12000	7500	1.25	7020ACTA
	180	34	2.1	1.1	156	136	35.8	12000	7500	3.25	7220CTA
	180	34	2.1	1.1	149	130	49.6	11000	7000	3.25	7220ACTA
	145	20	1.1	0.6	58.2	63.9	26.7	14000	8500	0.82	71921CTA
105	145	20	1.1	0.6	57.4	63	30.3	13500	8200	0.82	71921DTA
	145	20	1.1	0.6	54.9	60.2	39.1	12000	7500	0.82	71921ACTA
	160	26	2	1	88.1	89.4	30.8	13000	8000	1.6	7021CTA
	160	26	2	1	86.9	88.3	34.5	12700	7800	1.6	7021DTA
	160	26	2	1	83.3	84.7	43.9	12000	7500	1.6	7021ACTA
	190	36	2.1	1.1	163	147	37.8	12000	7500	3.85	7221CTA
	190	36	2.1	1.1	155	140	52.4	10000	6700	3.85	7221ACTA
	150	20	1.1	0.6	59.2	66.7	27.4	13000	8000	0.86	71922CTA
	150	20	1.1	0.6	58.4	65.7	31.1	12700	7800	0.86	71922DTA
110	150	20	1.1	0.6	55.9	62.6	40.3	12000	7500	0.86	71922ACTA
	170	28	2	1	100.8	101.4	32.9	12000	7500	1.95	7022CTA
	170	28	2	1	99.5	100.2	36.9	11700	7300	1.95	7022DTA
	170	28	2	1	106.1	110.5	46.9	11000	7000	1.95	7022ACTA
	200	38	2.1	1.1	169	158	39.8	11000	7000	4.55	7222CTA
	200	38	2.1	1.1	161	151	55.1	10000	6700	4.55	7222ACTA
	165	22	1.1	0.6	73.6	84.2	30.1	12000	7500	1.15	71924CTA
	165	22	1.1	0.6	72.6	83	34.2	11700	7300	1.15	71924DTA
	165	22	1.1	0.6	69.5	79.3	44.2	11000	7000	1.15	71924ACTA
120	180	28	2	1	112	116	34.1	11000	7000	2.1	7024CTA
	180	28	2	1	111	115	38.4	10700	6900	2.1	7024DTA
	180	28	2	1	106	110	49	10000	6700	2.1	7024ACTA
	215	40	2.1	1.1	174	171	42.4	10000	6700	5.4	7224CTA
	215	40	2.1	1.1	165	163	59.1	9000	6000	5.4	7224ACTA
	180	24	1.5	0.6	87.1	99.9	32.8	11000	7000	1.55	71926CTA
	180	24	1.5	0.6	85.9	98.4	37.2	10700	6900	1.55	71926DTA
	180	24	1.5	0.6	82.2	94.1	48.1	10000	6700	1.55	71926ACTA
	200	33	2	1	129	137	38.6	10000	6700	3.2	7026CTA
130	200	33	2	1	128	135	43.3	9700	6500	3.2	7026DTA
	200	33	2	1	122	130	55	9000	6000	3.2	7026ACTA

For limiting speed with engineered polymer cage, please consult with CSC.

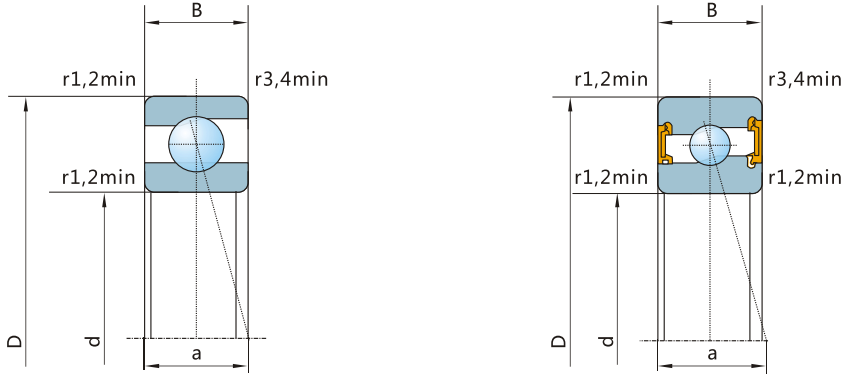


HIGH-SPEED ANGULAR CONTACT BALL BEARINGS



d	D	B	r	Sbasic load ratings		Contact point (mm)	Speed Rating(r/min)		Weight (kg)	Bearing No.
				Cr	Cor		Oil lubrication	Grease lubrication		
mm			min	KN	KN					
10	22	6	0.3	2.07	1.17	5.1	143000	87000	0.01	H 71900CTA
	22	6	0.3	2.05	1.16	5.6	135000	83000	0.01	H 71900DTA
	22	6	0.3	1.97	1.12	6.7	115000	70000	0.01	H 71900ACTA
	26	8	0.3	3	1.57	6.4	130000	80000	0.02	H 7000CTA
	26	8	0.3	2.97	1.55	6.9	120000	75000	0.02	H 7000DTA
	26	8	0.3	2.86	1.5	8.2	105000	65000	0.02	H 7000ACTA
12	24	6	0.3	2.13	1.29	5.4	130000	80000	0.01	H 71901CTA
	24	6	0.3	2.11	1.27	5.9	120000	75000	0.01	H 71901DTA
	24	6	0.3	2.02	1.23	7.2	105000	65000	0.01	H 71901ACTA
	28	8	0.3	3.33	1.91	6.7	115000	70000	0.02	H 7001CTA
	28	8	0.3	3.29	1.89	7.2	110000	68000	0.02	H 7001DTA
	28	8	0.3	3.17	1.82	8.7	95000	58000	0.02	H 7001ACTA
15	28	7	0.3	2.93	1.88	6.4	110000	68000	0.02	H 71902CTA
	28	7	0.3	2.89	1.86	7.0	100000	61000	0.02	H 71902DTA
	28	7	0.3	2.77	1.79	8.5	86000	53000	0.02	H 71902ACTA
	32	9	0.3	3.91	2.58	7.6	100000	61000	0.03	H 7002CTA
	32	9	0.3	3.86	2.55	8.3	95000	58000	0.03	H 7002DTA
	32	9	0.3	3.7	2.46	10.0	80000	49000	0.03	H 7002ACTA
17	30	7	0.3	3.12	2.15	6.6	98000	60000	0.02	H 71903CTA
	30	7	0.3	3.08	2.12	7.3	92000	56000	0.02	H 71903DTA
	30	7	0.3	2.95	2.04	9.0	80000	49000	0.02	H 71903ACTA
	35	10	0.3	6.97	4.13	8.5	90000	55000	0.04	H 7003CTA
	35	10	0.3	6.89	4.09	9.2	85000	52000	0.04	H 7003DTA
	35	10	0.3	6.65	3.95	11.1	72000	44000	0.04	H 7003ACTA
20	37	9	0.3	5.63	3.78	8.3	81000	50000	0.04	H 71904CTA
	37	9	0.3	5.56	3.73	9.1	76000	46000	0.04	H 71904DTA
	37	9	0.3	5.34	3.59	11.1	65000	40000	0.04	H 71904ACTA
	42	12	0.6	9.66	6.10	10.2	75000	46000	0.08	H 7004CTA
	42	12	0.6	9.55	6.04	11.0	70000	43000	0.08	H 7004DTA
	42	12	0.6	9.21	5.82	13.2	60000	37000	0.08	H 7004ACTA
25	42	9	0.3	6.16	4.63	9.0	70000	43000	0.05	H 71905CTA
	42	9	0.3	6.07	4.57	9.9	65000	40000	0.05	H 71905DTA
	42	9	0.3	5.82	4.39	12.3	55000	34000	0.05	H 71905ACTA
	47	12	0.6	10.50	7.26	10.8	65000	40000	0.09	H 7005CTA
	47	12	0.6	10.30	7.17	11.8	60000	37000	0.09	H 7005DTA
	47	12	0.6	9.92	6.89	14.4	52000	32000	0.09	H 7005ACTA
30	47	9	0.3	6.40	5.24	9.7	60000	37000	0.05	H 71906CTA
	47	9	0.3	6.31	5.17	10.8	56000	35000	0.05	H 71906DTA
	47	9	0.3	6.04	4.94	13.5	48000	30000	0.05	H 71906ACTA
	55	13	1	12.20	9.02	12.2	55000	34000	0.13	H 7006CTA
	55	13	1	12.00	8.90	13.4	51000	31000	0.13	H 7006DTA
	55	13	1	11.50	8.57	16.4	44000	27000	0.13	H 7006ACTA
35	55	10	0.6	6.76	5.99	11.0	52000	32000	0.08	H 71907CTA
	55	10	0.6	6.67	5.89	12.3	48000	30000	0.08	H 71907DTA
	55	10	0.6	6.37	5.58	15.5	41000	25000	0.08	H 71907ACTA
	62	14	1	17.00	12.90	13.5	48000	30000	0.17	H 7007CTA
	62	14	1	16.80	12.70	14.9	45000	28000	0.17	H 7007DTA
	62	14	1	16.10	12.20	18.3	38000	23000	0.17	H 7007ACTA
40	62	12	0.6	9.78	9.04	12.8	45000	28000	0.13	H 71908CTA
	62	12	0.6	9.64	8.89	14.3	42000	26000	0.13	H 71908DTA
	62	12	0.6	9.21	8.42	17.9	36000	22000	0.13	H 71908ACTA
	68	15	1	18.10	14.70	14.7	43000	26000	0.22	H 7008CTA

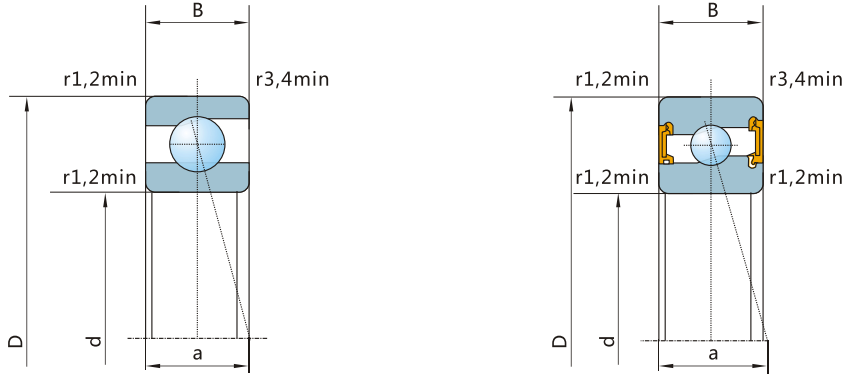
HIGH-SPEED ANGULAR CONTACT BALL BEARINGS



d	D	B	r	Sbasic load ratings		Contact point (mm)	Speed Rating(r/min)		Weight (kg)	Bearing No.
				Cr	Cor		Oil lubrication	Grease lubrication		
mm			min	KN	KN					
40	68	15	1	17.80	14.50	16.3	40000	24500	0.22	H 7008DTA
	68	15	1	17.10	14.00	20.1	35000	21500	0.22	H 7008ACTA
45	68	12	0.6	10.10	9.66	13.6	41000	25000	0.14	H 71909CTA
	68	12	0.6	9.91	9.50	15.2	38000	23000	0.14	H 71909DTA
	68	12	0.6	9.46	9.01	19.2	33000	20000	0.14	H 71909ACTA
	75	16	1	19.00	16.60	16.0	38000	23000	0.27	H 7009CTA
	75	16	1	18.70	16.30	17.7	36000	22000	0.27	H 7009DTA
	75	16	1	17.90	15.70	22.0	31000	19000	0.27	H 7009ACTA
50	72	12	0.6	10.30	10.30	14.2	38000	23500	0.15	H 71910CTA
	72	12	0.6	10.20	10.10	15.9	35000	21500	0.15	H 71910DTA
	72	12	0.6	9.74	9.61	20.2	31000	19000	0.15	H 71910ACTA
	80	16	1	22.30	19.40	16.7	35000	21500	0.29	H 7010CTA
	80	16	1	22.00	19.20	18.6	33000	20000	0.29	H 7010DTA
	80	16	1	21.10	18.40	23.2	28000	17500	0.29	H 7010ACTA
55	80	13	1	13.50	13.60	15.5	34000	21000	0.2	H 71911CTA
	80	13	1	13.30	13.40	17.5	32000	20000	0.2	H 71911DTA
	80	13	1	12.70	12.70	22.2	28000	17500	0.2	H 71911ACTA
	90	18	1.1	24.00	22.70	18.7	32000	20000	0.43	H 7011CTA
	90	18	1.1	23.70	22.40	20.8	30000	18500	0.43	H 7011DTA
	90	18	1.1	22.60	21.60	25.9	26000	16000	0.43	H 7011ACTA
60	85	13	1	14.50	15.40	16.2	32000	20000	0.21	H 71912CTA
	85	13	1	14.30	15.20	18.3	30000	18500	0.21	H 71912DTA
	85	13	1	13.70	14.40	23.4	25500	16000	0.21	H 71912ACTA
	95	18	1.1	24.30	24.00	19.4	30000	18500	0.46	H 7012CTA
	95	18	1.1	24.00	23.60	21.6	28000	17500	0.46	H 7012DTA
	95	18	1.1	23.00	22.60	27.1	24000	15000	0.46	H 7012ACTA
65	90	13	1	14.30	15.40	16.9	30000	18500	0.23	H 71913CTA
	90	13	1	14.10	15.10	19.1	28000	17500	0.23	H 71913DTA
	90	13	1	13.40	14.30	24.6	24000	15000	0.23	H 71913ACTA
	100	18	1.1	24.70	25.10	20.1	28000	17500	0.48	H 7013CTA
	100	18	1.1	24.30	24.70	22.4	26000	16000	0.48	H 7013DTA
	100	18	1.1	23.30	23.50	28.2	22500	14000	0.48	H 7013ACTA
70	100	16	1	18.30	20.10	19.4	27500	17000	0.37	H 71914CTA
	100	16	1	18.10	19.80	21.8	25500	16000	0.37	H 71914DTA
	100	16	1	17.30	18.80	27.8	22000	13500	0.37	H 71914ACTA
	110	20	1.1	25.50	27.00	22.1	26000	16000	0.67	H 7014CTA
	110	20	1.1	25.10	26.50	24.6	24000	15000	0.67	H 7014DTA
	110	20	1.1	24.00	25.10	31.0	20500	12500	0.67	H 7014ACTA
75	105	16	1	18.80	21.30	20.1	26000	16000	0.4	H 71915CTA
	105	16	1	18.50	20.90	22.6	24000	15000	0.4	H 71915DTA
	105	16	1	17.70	19.90	29.0	20500	12500	0.4	H 71915ACTA
	115	20	1.1	31.30	34.00	22.7	24500	15000	0.71	H 7015CTA
	115	20	1.1	30.80	33.40	25.4	23000	14000	0.71	H 7015DTA
	115	20	1.1	29.50	31.70	32.1	20000	12500	0.71	H 7015ACTA
80	110	16	1	21.00	24.00	20.7	24500	15000	0.41	H 71916CTA
	110	16	1	20.70	23.60	23.4	22500	14000	0.41	H 71916DTA
	110	16	1	19.80	22.40	30.1	19500	12000	0.41	H 71916ACTA
	125	22	1.1	32.20	36.10	24.7	22500	14000	0.96	H 7016CTA
85	125	22	1.1	31.70	35.50	27.7	21000	13000	0.96	H 7016DTA
	125	22	1.1	30.30	33.70	34.9	18000	11000	0.96	H 7016ACTA
	120	18	1.1	21.80	26.00	22.7	22500	14000	0.61	H 71917CTA
	120	18	1.1	21.50	25.60	25.7	21000	13000	0.61	H 71917DTA



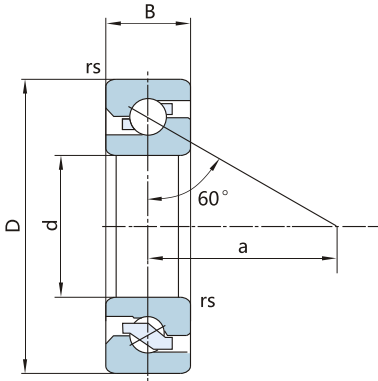
HIGH-SPEED ANGULAR CONTACT BALL BEARINGS



d	D	B	r	Sbasicload ratings		Contact point (mm)	Speed Rating(r/min)		Weight (kg)	Bearing No.
				Cr	Cor		Oil lubrication	Grease lubrication		
mm			min	KN	KN					
85	120	18	1.1	20.50	24.30	32.9	18000	11000	0.61	H 71917ACTA
	130	22	1.1	36.30	40.30	25.4	21500	13500	0.99	H 7017CTA
	130	22	1.1	35.80	39.60	28.5	20000	12500	0.99	H 7017DTA
	130	22	1.1	34.20	37.50	36.1	17500	11000	0.99	H 7017ACTA
	125	18	1.1	23.80	28.40	23.4	21500	13000	0.63	H 71918CTA
	125	18	1.1	23.40	27.90	26.5	20000	12500	0.63	H 71918DTA
90	125	18	1.1	22.40	26.50	34.1	17500	11000	0.63	H 71918ACTA
	140	24	1.5	37.40	42.90	27.4	20000	12500	1.31	H 7018CTA
	140	24	1.5	36.80	42.10	30.7	19000	11500	1.31	H 7018DTA
	140	24	1.5	35.20	40.00	38.8	16000	10000	1.31	H 7018ACTA
	130	18	1.1	24.40	29.80	24.1	20500	12500	0.66	H 71919CTA
	130	18	1.1	24.00	29.30	27.3	19000	12000	0.66	H 71919DTA
95	130	18	1.1	22.90	27.90	35.2	16500	10000	0.66	H 71919ACTA
	145	24	1.5	37.80	44.10	28.1	19500	12000	1.34	H 7019CTA
	145	24	1.5	37.30	43.40	31.5	18000	11000	1.34	H 7019DTA
	145	24	1.5	35.60	41.10	40.0	15500	9500	1.34	H 7019ACTA
	140	20	1.1	29.30	36.00	26.1	19500	12000	0.9	H 71920CTA
	140	20	1.1	28.80	35.40	29.5	18000	11000	0.9	H 71920DTA
100	140	20	1.1	27.50	33.60	38.0	15500	9500	0.9	H 71920ACTA
	150	24	1.5	38.20	45.40	28.7	18500	11500	1.4	H 7020CTA
	150	24	1.5	37.70	44.60	32.3	17000	10500	1.4	H 7020DTA
	150	24	1.5	36.00	42.30	41.1	15000	9200	1.4	H 7020ACTA
	145	20	1.1	29.50	36.80	26.7	18500	11500	0.9	H 71921CTA
	145	20	1.1	29.10	36.20	30.3	17500	10800	0.9	H 71921DTA
105	145	20	1.1	27.70	34.40	39.1	15000	9200	0.9	H 71921ACTA
	160	26	2	54.40	63.00	30.8	17500	10800	1.8	H 7021CTA
	160	26	2	53.60	61.90	34.5	16500	10000	1.8	H 7021DTA
	160	26	2	51.20	58.70	43.9	14000	8500	1.8	H 7021ACTA
	150	20	1.1	34.90	43.60	27.4	18000	11000	1	H 71922CTA
	150	20	1.1	34.40	42.90	31.1	16500	10000	1	H 71922DTA
110	150	20	1.1	32.80	40.70	40.3	14500	8800	1	H 71922ACTA
	170	28	2	64.10	76.90	32.8	16500	10000	2.2	H 7022CTA
	170	28	2	63.20	75.60	36.7	15500	9500	2.2	H 7022DTA
	170	28	2	60.40	71.70	46.6	13500	8200	2.2	H 7022ACTA
	165	22	1.1	36.50	48.00	30.1	16500	10000	1.3	H 71924CTA
	165	22	1.1	35.90	47.20	34.2	15000	9200	1.3	H 71924DTA
120	165	22	1.1	34.30	44.80	44.2	13000	8000	1.3	H 71924ACTA
	180	28	2	69.80	83.80	34.1	15500	9500	2.3	H 7024CTA
	180	28	2	68.80	82.40	38.4	14500	8800	2.3	H 7024DTA
	180	28	2	65.70	78.20	49.0	12500	7600	2.3	H 7024ACTA
	180	24	1.5	42.70	57.10	32.8	15000	9200	1.8	H 71926CTA
	180	24	1.5	42.00	56.10	37.2	14000	8500	1.8	H 71926DTA
130	180	24	1.5	40.10	53.30	48.1	12000	7300	1.8	H 71926ACTA
	200	33	2	85.60	105.00	38.6	14000	8500	3.7	H 7026CTA
	200	33	2	84.30	103.00	43.3	13000	8000	3.7	H 7026DTA
	200	33	2	80.60	97.80	55.0	11500	7000	3.7	H 7026ACTA

AXIAL ANGULAR CONTACT BALL BEARINGS

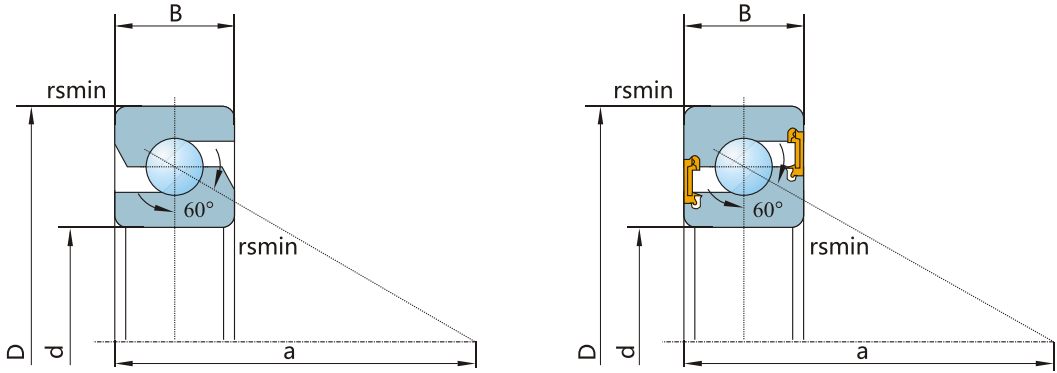
There is different matched stack for bearings with precision level P2,P4.



Boundary Dimensions (mm)					Basic Load Rating (kN)		Speed Rating (r/min)	Weight (kg)	Bearing No.
d	D	B	r <sub>s min</sub>	a	Ca	Coa	Grease lubrication		
15	35	11	0.6	21.5	9.81	14.8	6700	0.05	760202 TN
17	40	12	0.6	25	14.2	21.3	5900	0.07	760203 TN
20	47	14	1	29	19.6	36.0	5000	0.13	760204 TN
20	52	15	1.1	39	24.5	45.5	4600	0.175	760304 TN
25	52	15	1	33.5	22.0	44.0	4300	0.16	760205 TN
25	62	17	1.1	46	28.5	58.5	3600	0.28	760305 TN
30	62	16	1	40	26.0	56.0	3600	0.24	760206 TN
30	72	19	1.1	54	34.5	78.0	3100	0.415	760306 TN
35	72	17	1.1	46.5	30.5	71.0	3100	0.345	760207 TN
35	80	21	1.5	60	36.5	86.5	2800	0.555	760307 TN
40	80	18	1.1	52	37.5	91.5	2600	0.445	760208 TN
40	90	23	1.5	68	50.0	118.0	2500	0.765	760308 TN
45	85	19	1.1	56.5	38.0	96.5	2500	0.505	760209 TN
45	100	25	1.5	75	58.5	146.0	2100	1.02	760309 TN
50	90	20	1.1	61	39.0	106.0	2300	0.575	760210 TN
50	100	27	2	83	69.5	180.0	2000	1.33	760310 TN

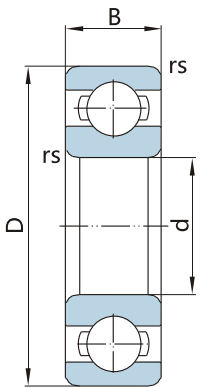


AXIAL ANGULAR CONTACT BALL BEARINGS



d	D	B	rsmin	Basic load rating		Forcepoint position	Speed limit		Mass	Type
				Cor	Ca	a	Oil	Grease		
mm				KN	KN	mm	r/min	r/min	kg	
15	47	15	1	21.50	27.00	36.5	8000	6000	0.13	
17	47	15	1	21.50	27.00	36.5	8000	6000	0.14	
20	47	15	1	21.50	27.00	36.5	8000	6000	0.13	
25	62	15	1	28.50	41.50	46.0	6000	4500	0.24	
30	62	15	1	26.00	39.00	47.3	5600	4300	0.23	
35	72	15	1	30.00	50.00	56.4	5000	3600	0.3	
40	72	15	1	28.00	49.00	56.4	4800	3600	0.26	
	90	20	1.5	50.00	83.00	68.9	4000	3000	0.65	
45	75	15	1	28.50	52.00	59.5	4300	3200	0.26	
	100	20	1.5	58.80	104.00	72.8	3600	2600	0.81	
50	100	20	1.5	58.50	104.00	75.0	3400	2600	0.75	
55	90	15	1	32.50	65.50	70.3	3400	2600	0.38	
	100	20	1	40.50	81.50	77.1	3400	2600	0.75	
	120	20	2	60.00	116.00	85.8	3000	2200	1.18	
60	120	20	1.5	61.00	120.00	87.9	3000	2200	1.11	

PRECISION DEEP GROOVE BALL BEARING

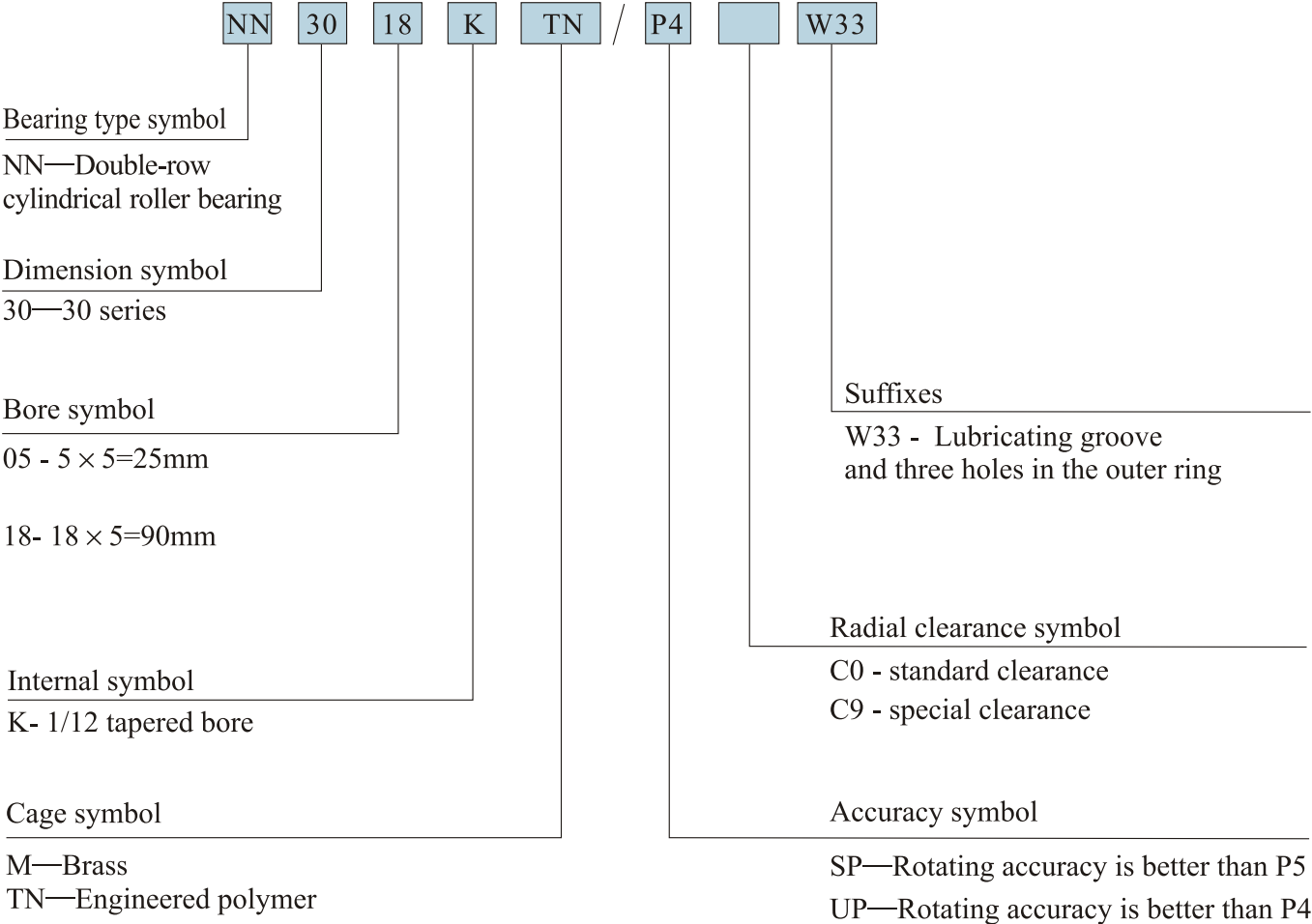


Bearing No.	Boundary Dimensions(mm)			Basic Load Rating(kN)		Speed Rating(r/min)		Weight (kg)
	d	D	B	Cr	Cor	Oil lubrication	Grease lubrication	
6003	17	35	10	6.80	3.35	28800	23900	0.040
6004	20	42	12	9.40	5.05	24200	20100	0.068
6005	25	47	12	10.1	5.85	20800	17300	0.079
6006	30	55	13	13.2	8.30	17600	14600	0.113
6007	35	62	14	16.0	10.3	15500	12900	0.149
6008	40	68	15	16.8	11.5	13900	11500	0.185
6009	45	75	16	21.0	15.1	12500	10400	0.231
6010	50	80	16	21.8	16.6	11500	9500	0.250
6011	55	90	18	28.3	21.2	10300	8500	0.362
6012	60	95	18	29.5	23.2	9700	8100	0.385
6013	65	100	18	30.5	25.2	9100	7600	0.430
6014	70	110	20	38.0	31.0	8300	6900	0.569
6015	75	115	20	39.5	33.5	7900	6600	0.603
6016	80	125	22	47.5	40.0	7300	6100	0.821
6017	85	130	22	49.5	43.0	7000	5800	0.848
6018	90	140	24	58.0	49.5	6500	5400	1.12
6019	95	145	24	60.5	54.0	6300	5200	1.18
6020	100	150	24	60.0	54.0	6000	5000	1.25
6021	105	160	26	72.5	65.5	5700	4700	1.60
6022	110	170	28	82.0	73.0	5400	4500	1.93
6203	17	40	12	9.60	4.60	26300	21800	0.065
6204	20	47	14	12.8	6.65	22400	18600	0.103
6205	25	52	15	14.0	7.85	19500	16200	0.127
6206	30	62	16	19.5	11.3	16300	13500	0.203
6207	35	72	17	25.7	15.3	14000	11600	0.287
6208	40	80	18	29.1	17.8	12500	10400	0.367
6209	45	85	19	32.5	20.4	11500	9500	0.416
6210	50	90	20	35.0	23.2	10700	8900	0.462
6211	55	100	21	43.5	29.2	9700	8100	0.607
6212	60	110	22	52.5	36.0	8800	7300	0.783
6213	65	120	23	57.5	40	8100	6700	0.990
6214	70	125	24	62.0	44.0	7700	6400	1.10
6215	75	130	25	66.0	49.5	7300	6100	1.20
6216	80	140	26	72.5	53.0	6800	5600	1.40
6217	85	150	28	83.5	64.0	6400	5300	1.80
6218	90	160	30	96.0	71.5	6000	5000	2.15
6219	95	170	32	109	82.0	5700	4700	2.60
6220	100	180	34	122	93.0	5400	4500	3.20
6221	105	190	36	133	105	5100	4200	3.71
6222	110	200	38	144	117	4800	4000	4.44

The bearings can be supplied with different precision level : P2 、 P4 、 P5, More details, please contact the company.

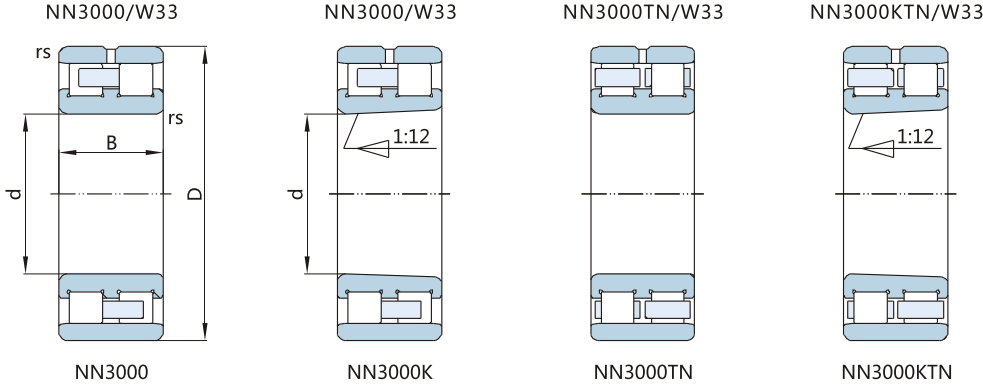


DOUBLE ROW CYLINDRICAL ROLLER BEARING



bore symbol : bore symbol $\times 5$ =bearing bore diameter  
bore symbol : No symbol-cylindrical bore ; K—taper bore 1:12  
cage symbol : No symbol-copper alloy cage ; TN-polymide cage  
accuracy symbol : P5—ISO5 ; P4—ISO4 ; P2—ISO2  
SP-dimension tolerance according to ISO class 5, running accuracy better than ISO class 5  
UP-dimension tolerance according to ISO class 4, running accuracy better than ISO class 4  
Radial clearance symbol : No symbol-standard clearance  
C1,C2-special clearance less than standard clearance  
oil hole symbol : No symbol-no oil hole ; W33-outer ring with standard oil slot and oil hole

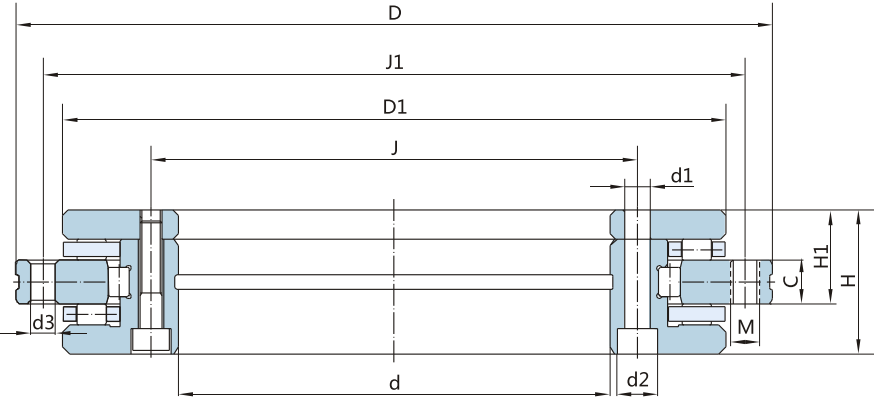
DOUBLE ROW CYLINDRICAL ROLLER BEARING



Bearing No.			Boundary Dimensions (mm)			Basic Load Rating (kN)			Speed Rating(r/min)		Weight (kg)
Standard type		Non-standard type	d	D	B	r <sub>s</sub>	Cr	Cor	Grease lubrication	Oil lubrication	
Cylindrical bore	Tapered bore	W33									
NN3005	NN3005KM	W33	25	47	16	0.6	25.8	30	19000	22000	0.12
NN3005TN	NN3005KTN	W33	25	47	16	0.6	25.8	30	21000	26000	0.11
NN3006	NN3006KM	W33	30	55	19	1	30.8	37.0	16000	18000	0.19
NN3006TN	NN3006KTN	W33	30	55	19	1	30.8	37.0	18000	22000	0.17
NN3007	NN3007KM	W33	35	62	20	1	39.2	50.0	14000	16000	0.26
NN3007TN	NN3007KTN	W33	35	62	20	1	39.2	50.0	15000	19000	0.22
NN3008	NN3008KM	W33	40	68	21	1	43.1	55.5	12000	14000	0.31
NN3008TN	NN3008KTN	W33	40	68	21	1	43.1	55.5	14000	17000	0.28
NN3009	NN3009KM	W33	45	75	23	1	51.0	65.5	11000	13000	0.41
NN3009TN	NN3009KTN	W33	45	75	23	1	51.0	65.5	12000	15000	0.37
NN3010	NN3010KM	W33	50	80	23	1	52.8	73.5	10000	12000	0.43
NN3010TN	NN3010KTN	W33	50	80	23	1	52.8	73.5	11000	14000	0.40
NN3011	NN3011KM	W33	55	90	26	1.1	69.5	96.5	9500	11000	0.65
NN3011TN	NN3011KTN	W33	55	90	26	1.1	69.5	96.5	10000	13000	0.59
NN3012	NN3012KM	W33	60	95	26	1.1	73.5	106	9000	10000	0.69
NN3012TN	NN3012KTN	W33	60	95	26	1.1	73.5	106	9900	12000	0.63
NN3013	NN3013KM	W33	65	100	26	1.1	76.5	116	8500	9500	0.74
NN3013TN	NN3013KTN	W33	65	100	26	1.1	76.5	116	9300	11000	0.68
NN3014	NN3014KM	W33	70	110	30	1.1	95.0	148	7500	8500	1.06
NN3014TN	NN3014KTN	W33	70	110	30	1.1	95.0	148	8500	10000	0.98
NN3015	NN3015KM	W33	75	115	30	1.1	96.5	149	7000	8000	1.11
NN3015TN	NN3015KTN	W33	75	115	30	1.1	96.5	149	8000	10000	1.03
NN3016	NN3016KM	W33	80	125	34	1.1	119	186	6700	7500	1.54
NN3016TN	NN3016KTN	W33	80	125	34	1.1	119	186	7500	9300	1.44
NN3017	NN3017KM	W33	85	130	34	1.1	122	194	6300	7000	1.63
NN3017TN	NN3017KTN	W33	85	130	34	1.1	122	194	7100	8900	1.52
NN3018	NN3018KM	W33	90	140	37	1.5	142	232	6000	6700	2.09
NN3018TN	NN3018KTN	W33	90	140	37	1.5	142	232	6600	8300	1.93
NN3019	NN3019KM	W33	95	145	37	1.5	146	238	5600	6300	2.19
NN3019TN	NN3019KTN	W33	95	145	37	1.5	146	238	6400	8000	2.03
NN3020	NN3020KM	W33	100	150	37	1.5	150	248	5300	6000	2.28
NN3020TN	NN3020KTN	W33	100	150	37	1.5	150	248	6100	7600	2.12
NN3021	NN3021KM	W33	105	160	41	2	190	305	5000	5600	2.88
NN3021TN	NN3021KTN	W33	105	160	41	2	190	305	5800	7200	2.69
NN3022	NN3022KM	W33	110	170	45	2	220	360	4800	5300	3.70
NN3022TN	NN3022KTN	W33	110	170	45	2	220	360	5500	6800	3.42
NN3024	NN3024KM	W33	120	180	46	2	229	390	4500	5000	3.90
NN3024TN	NN3024KTN	W33	120	180	46	2	229	390	5100	6400	3.60



YSRT Series



Features: YSRT bearing consist of a thrust/radial housing washer, a thrust/radial shaft washer, a thrust washer, two Axial needle roller and cage assemblies and a group of radial cylindrical roller . housing washer and shaft washer have bolt hole for install equally spacer. This kind of bearings have high axial load and radial load ,and high tilting rigidity and high precision. This bearing can be used to the machine tool or other high precision machinery of the rotary table or sub-set, and also can be used for chuck, measuring instruments and test equipment,and rotary table configuration. This bearing request higher quality of the parts match It. You must control screw tightening torque when install it.

Bearing No.	Boundary Dimensions								Basic Load Rating(KN)				Weight (kg)
									Axial		Radial		
	d	D	H	H1	C	D1	J	J1	Ca	Coa	Cr	Cor	
YSRT80	80	146	35	23.35	12	130	92	138	38	158	44	98	2.4
YSRT100	100	185	38	25	12	160	112	170	73	370	52	108	4.1
YSRT120	120	210	40	26	12	184	135	195	80	445	70	148	5.3
YSRT150	150	240	40	26	12	214	165	225	85	510	77	179	6.2
YSRT180	180	280	43	29	15	244	194	260	92	580	83	209	7.7
YSRT200	200	300	45	30	15	274	215	285	98	650	89	236	9.7
YSRT260	260	385	55	36.5	18	345	280	365	109	810	102	310	18.3

Bearing No.	Inner ring				Outer ring				screw pitch Z×t	Starting torque	Speed Rating (r/min)	Runout (μ)	
	Assembly bore			Lock screw bolt	Assembly bore		Unlock screw						
	d1	d2	Qty	Qty	d3	Qty	M	Qty	Z×t	Nm	rpm	p2	μp
YSRT80	5.6	10	10	2	5.6	12	—	—	12×30°	6.7	350	3	1.5
YSRT100	5.6	10	16	2	5.6	15	M5	3	18×20°	8.3	280	3	1.5
YSRT120	7	11	22	2	7	21	M8	3	24×15°	10.5	230	3	1.5
YSRT150	7	11	34	2	7	33	M8	3	36×10°	12.1	210	3	2
YSRT180	7	11	46	2	7	45	M8	3	48×7.5°	15.4	190	4	2
YSRT200	7	11	46	2	7	45	M8	3	48×7.5°	21.4	170	4	2.5
YSRT260	9.3	15	34	2	9.3	33	M12	3	36×10°	25.3	130	6	3

linear motion bearing specialties

Linear motion bearing is made of High Carbon Chrome Steel, and made up of hard-quenched, high-accuracy bearing base and roller, etc. It' s installed on the lathe track to make to-and- fro linear motion. It' s applied to the linear motion of grinding machine, CNC lathe, heavy-duty machinery and some precision instrument.

This bearing takes advantage in high loading capacity and low friction. It' s wearable, high rigidity, long-lived and keep the high-accuracy advantage for a long period. It can reduce the whole weight, transmission and the cost of power under high frequency of repeated movements, start, and stop.

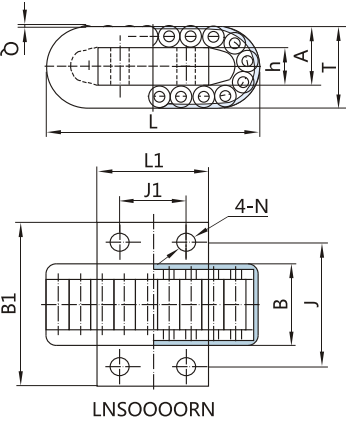
It can improve the machinery precision in locating and sensitive character because the roller has good guiding ability.

The bearing is easy to control in low-speed reciprocating motion or tiny move. It' s easy to be moved and no creeping.

It' s unlimited by length of lathe. The applied quantity of bearings can be fixed according to the different load rating stipulated in the data sheet.

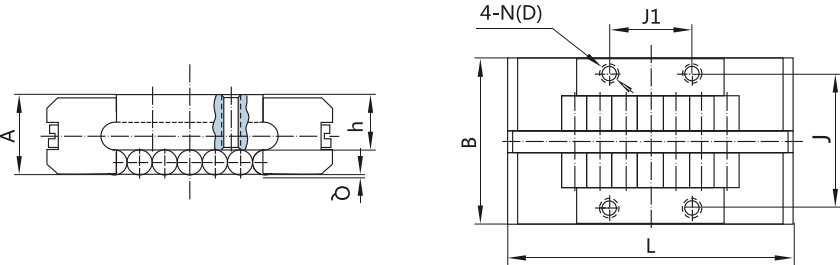
This bearing has high precision of orientation. It' s easily assembled and easily lubricated by simple system. The lathe is maintained simply and conveniently. It' s safe, reliable and very easy in changing or adjusting.

RECIRCULATING NEEDLE ROLLER  
LINEAR BEARINGS (LNS0000RN)



Bearing No.	Boundary Dimensions(mm)										Cr(kN)
	B	L	B <sub>1</sub>	A	T	L <sub>1</sub>	h	J	J <sub>1</sub>	N	
LNS 1540RN	15	40	30	11	15	20	7	23	12	3.3	10.8
LNS 2050RN	20	50	36	12	16	30	8	29	18	3.8	19.1
LNS 2560RN	25	60	45	14	19	35	9	36	20	4.8	28.3
LNS 3270RN	32	70	55	15	20	45	10	44	27	5.5	45.0
LNS 4087RN	40	87	68	21	28	55	14	54	35	6.5	69.5
LNS 50125RN	50	125	82	30	40	78	20	66	50	8.5	120





LNS0000ORNUK

Bearing No.	Boundary Dimensions(mm)								Cr(kN)
	A	B	L	J	J <sub>1</sub>	(D)	N	h	
LNS 3052 GRNUK	16.5	30	52	23	12	M4	3,6	11	15.1
LNS 3662 GRNUK	17.5	36	62	29	18	M4	4,8	12	26.0
LNS 4575 GRNUK	20.5	45	75	36	20	M5	5,8	14	40.3
LNS 5585 GRNUK	21.5	55	85	44	27	M5	5,8	15	52.4
LNS 6094 GRNUK	25	60	94	49	30	M5	5,8	17.5	76.0
LNS 68105 GRNUK	30	68	105	54	35	M8	7	21	84.1
LNS 75120 GRNUK	35	75	120	60	38	M8	8	25	124
LNS 52145 GRNUK	42	82	145	66	40	M8	9	30	149

Precision Grade								
Bearing number		(TVAmL)	(ΔAmL)					
			I	II	III	IV	V	
Normal Grade	G	0.01	—	—	—	—	—	—
High Grade	E	0.005	0 -0.005	-0.005 -0.01	—	—	—	—
Precision Grade	D	0.003	0 -0.003	-0.003 -0.006	-0.006 -0.009	-0.009 -0.012	—	—
Super Precision Grade	C	0.002	0 -0.002	-0.002 -0.004	-0.004 -0.006	-0.006 -0.008	-0.008 -0.010	—

Notice :  
Besides the series listed here, you can negotiate and order the other special types.  
Please indicate the bearing's jointing style when ordering, N or D.  
Please indicate the bearing quantity in one group and the required precision level.

For example :

LNS 1540RN × E × 8  
Type Precision Grade One Group of Quantity

LNS3662GRNUK × D × 16 N or D  
Type Precision Grade Screw Screw One Group of



CSC bearing co., ltd is specially research and manufacture bearings of high-reliability, long life for maintenance of import high-speed winder, draw-texturing machine, winding machine, two for one twisters, weaving machine, printing machine and fitted for national producing machines which include standard bearings and non-standard bearings.



Bearing assembly



Chuck shaft

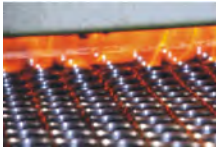


Bearing with shaft

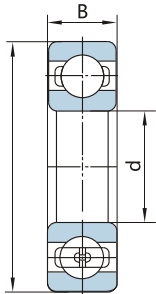


Spindle sleeve

To obtain the temperature rise characteristics of spindle unit by testing under certain rated speed, as well as finding the resonance region by testing the accelerated vibration under different frequencies.



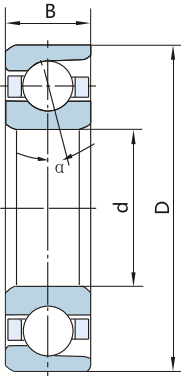
High precision. High speed. Ball bearing under high operating temperature



Boundary Dimensions			item	part Number
d	D	B		
15	32	9	6002-2RZ\VV\ZZ\C3/P4\IP5	4266358\
17	35	10	6003-2RZ\VV\ZZ\C3/P4\IP5	3268257\
20	42	12	6004-2RZ\VV\ZZ\NR\C3/P4\IP5	0702698\0702760\2611621\33F-4408\33F-6413\
25	47	12	6005-2RZ\VV\ZZ\NR\K\C3/P4\IP5	7898573\AC-6005T2X3LLB\0702799\33F-33065
30	55	13	6006-2RZ\VV\ZZ\C3/P4\IP5	2A-6006LLBD2\0706609\33F-61122
35	62	14	6007-2RZ\VV\ZZ\NR\C3/P4\IP5	
40	68	15	6008-2RZ\VV\ZZ\C3/P4\IP5	
45	75	16	6009-2RZ\VV\ZZ\C3/P4\IP5	
50	80	16	6010-2RZ\VV\ZZ\C3/P4\IP5	0703052\
55	90	18	6011-2RZ\VV\ZZ\C3/P4\IP5	
60	95	18	6012-2RZ\VV\ZZ\C3/P4\IP5	
75	115	20	6015-2RZ\VV\ZZ\C3/P4\IP5	6528296
70	90	10	61814-2RZ\VV\ZZ\C3/P4\IP5	5295496
17	40	12	6203-2RZ\VV\ZZ\C3/P4\IP5	2062196\4013351\H76H62304R3-1
20	47	14	6204-2RZ\VV\ZZ\NR\C3/P4\IP5	2062011\4651870\4153808
25	52	15	6205-2RZ\VV\ZZ\NR\C3/P4\IP5	4652494\4650735
30	62	16	6206-2RZ\VV\ZZ\C3/P4\IP5	4153811\2062024\0703528\0703599\2363777
35	72	17	6207-2RZ\VV\ZZ\NR\K\C3/P4\IP5	0703611\0703661\0703674\4432760\33F-2109
40	80	18	6208-2RZ\VV\ZZ\C3/P4\IP5	0501752\1534840\33F-60065\33F-60072\33F60082
45	85	19	6209-2RZ\VV\ZZ\C3/P4\IP5	33F-80042\
50	90	20	6210-2RZ\VV\ZZ\C3/P4\IP5	
55	100	21	6211-2RZ\VV\ZZ\C3/P4\IP5	
60	110	22	6212-2RZ\VV\ZZ\C3/P4\IP5	0703889\
65	120	23	6213-2RZ\VV\ZZ\C3/P4\IP5	
50	90	23	62210-2RZ\VV\ZZ\C3/P4\IP5	4013247
20	52	15	6304-2RZ\VV\ZZ\C3/P4\IP5	0704067\
25	62	17	6305-2RZ\VV\ZZ\C3/P4\IP5	2363780\
30	72	19	6306-2RZ\VV\ZZ\NR\C3/P4\IP5	0704214\0704243\1614593\1841509\33F-61142
35	80	21	6307-2RZ\VV\ZZ\C3/P4\IP5	1534837\33F-61042\
40	90	23	6308-2RZ\VV\ZZ\C3/P4\IP5	0704328\
45	100	25	6309-2RZ\VV\ZZ\C3/P4\IP5	0704373\0706364\1614030\33F60033
50	110	27	6310-2RZ\VV\ZZ\C3/P4\IP5	33F-60024\33F-61024
55	120	29	6311-2RZ\VV\ZZ\C3/P4\IP5	3372060\
60	130	31	6312-2RZ\VV\ZZ\C3/P4\IP5	0726438\
17	35	13	BN17-6TVVENSSP5	MN34H01029ZZO\Z90-47544-00
25	47	15	BN25-10TVVNS7P5	MN34H01015ZZO
30	55	17	BN30-5TVVENSSP5	MB1351-22001\MM77H92201R2.1
35	62	18.5	BN35-10TVVENSSP5	MM77H99128ZZO
17	35	10	6003LICC3P4/P5	
20	42	12	6004LICC3P4/P5	
25	47	12	6005LICC3P4/P5	
30	55	13	6006LICC3P4/P5	
35	62	14	6007LICC3P4/P5	
40	68	15	6008LICC3P4/P5	
45	75	16	6009LICC3P4/P5	
40	68	15	TS2-6008LICC3P4/P5U93	
50	80	16	TS2-6010LICC3P4/P5U93	
40	80	18	TS2-6208LICC3P4/P5U93	



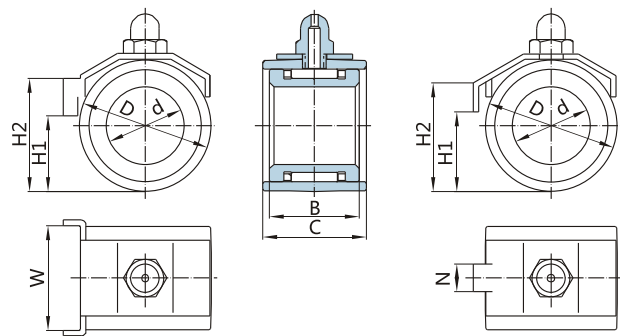
ANGULAR CONTACT BALL BEARINGS



Bearing No.	Boundary Dimensions (mm)			part No.	Installed machine type	Installed position in the machine	Pieces per device
	d	D	B				
B7003CTPAP4	17	35	10				
B7004CTPAP4	20	42	12	M78H644K04,M78H214K04,741622-014		Friction roller	
B7005CTPAP4	25	47	12	741640-A001,M76H62203RH		Spindle motor	
B7006CTPAP4	30	55	13				
B7007CTPAP4	35	62	14				
B7008CTPAP4	40	68	15			Heating godet	
B7009CTPAP4	45	75	16				
B7010CTPAP4	50	80	16			Heating godet	
B7011CTPAP4	55	90	18			Heating godet	
B7012CTPAP4	60	95	18			Heating godet	
B7014CTPAP4	70	110	20				
B7018CTPAP4	90	140	24				
B7204CTPAP4	20	47	14				
B7205CTPAP4	25	52	15				
B7206CTPAP4	30	62	16			Heating godet	
B7207CTPAP4	35	72	17			Heating godet	
B7208CTPAP4	40	80	18	3322746,		Heating godet	
B7210CTPAP4	50	90	20	3099751,		Heating godet	
B7211CTPAP4	55	100	21	4438238,		Heating godet	
B7214CTPAP4	70	125	24				
B71905CTPAP4	25	42	9	6805284	CW-6R-5S,	Separator roller	
B71918CTPAP4	90	125	18				
Non-Standard Bearing	50	90	23	D257535-ZV			
	40	68	15	D250313			
3308	40	90	36.5	0702193,			
3309D2	45	100	39.7	2987687,			
BN17-6TVVP4	17	35	13	MN34HO1029ZZO,Z90-47544-00,	TMT	Friction roller	
BN25-10TVVP4	25	47	15				
BN25-10P4	25	47	16	MN34HO1015ZZO,	TMT	BH shaft	
BN30-5TVVP4	30	55	17	MB1351-22001	№ 741, № 731		
BN30-10TVVP4	30	55	17	MM77H92201R2.1	№ 777		
BN35-8TVVP4	35	61	20/34	MM99128	TMT		
BN35-9TVVP4	35	61	18.5/34	MM77B99128ZZO	TMT		
BN35-10TVVP4	35	62	18.5	MM77H99128ZZO	TMT		
Non-Standard Bearing	25	55.5	37/44	7805392,7804068,	CW6R-5	Separator roller	
	25	55.5	44	7189818,		Separator roller	
	25	55.5	37/44	D258537,	ACW-5T	Separator roller	
	25	55.5	37/44	ACW-5-595	ACW-5T	Separator roller	
	25	55.5	37/44	7805393,		Separator roller	



BOTTOM ROLLER BEARINGS

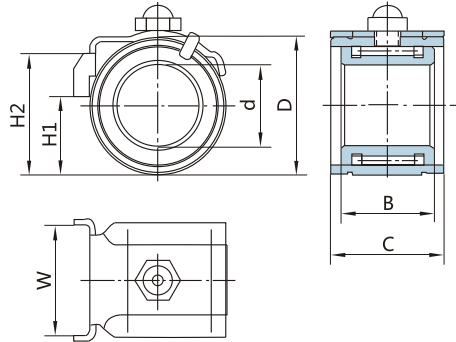


Bearing No.		Boundary Dimensions(mm)								Weight (kg)	Minimum basic Carrying capacity
		D	d	B	C	H1	H2	W	N		
GB	ISO	-0.05	-0.01	±0.025		min	max	+0.4	-0.2		
LZ2800	UWL2800	28	16.5	19	22	17	23	—	5.9	0.060	6.0
LZ2812		28	16.5	19	22	16	24	12.2	—	0.060	6.0
LZ2820	UWL2820	28	16.5	19	22	16	24	20.2	—	0.060	6.0
LZ2822	UWL2822	28	16.5	19	22	16	24	22.2	—	0.060	6.0
LZ3200	UWL3200	32	19	20	23	19	25	—	5.9	0.082	7.0
LZ3224	UWL3224	32	19	20	23	19	27	24.2	—	0.082	7.0
LZ3226	UWL3226	32	19	20	23	19	27	26.2	—	0.082	7.0
LZ3600	UWL3600	36	21	22	25	21	27	—	5.9	0.119	10.0
LZ3624	UWL3624	36	21	22	25	21	29	24.2	—	0.119	10.0
LZ3626	UWL3626	36	21	22	25	21	29	26.2	—	0.119	10.0
LZ4000	UWL4000	40	23	23.5	27	23	29	—	5.9	0.160	12.0
LZ4024	UWL4024	40	23	23.5	27	24	32	24.2	—	0.160	12.0
LZ16.5	—	30	16.5	19	23	10	24	22.4	—	0.070	6.0
LZ3000	UWL3000	30	18.5	19	22	18	27	—	5.9	0.066	6.0
LZ18.5	UWL3026	30	18.5	19	22	18	27	26.2	—	0.066	6.0
LZ19	—	36	19	22	26	12.5	28.5	25.4	—	0.116	7.0
LZ22	—	42	22	23	27	15	33	25.4	—	0.160	11.0
LZ25	—	47	25	25	29	16.7	38	28.2	—	0.218	15.0
LZ3200G	—	32	19	20	23	—	—	—	—	0.08	7.0

PRECISION BOTTOM ROLLER BEARINGS


Precision bottom roller bearing is made of high grade steel with long-life and high precision. The parts are exchangeable for inner ring, outer ring and needle subassembly. It adopts strengthened nylon cage in new structure with patent technique, and reliable locating cover with higher precision. With the nice finishing and advanced technology, our products can take place of the imported bearing.

While assembling or using, roller is more easily adjusted. The bearing can reduce the mechanical wave, improve the CV value remarkably and extend the bearing’ s life.




Bearing No.		Boundary Dimensions(mm)								Weight (kg)	Minimum basic Carrying capacity
		D	d	B	C	H1	H2	W	N		
GB	ISO	-0.05	-0.01	±0.025		min	max	+0.4	-0.2		
	UWL3224E	32	19	20	24	19	27	24.2	—	0.082	7.0
	UWL2822E	28	16.5	19	23	16	24.6	22.3	—	0.061	6.0


TEXTILE MACHINERY BEARINGS




**No. YS 601**  
SIZE (d×D×B) : Φ30×Φ62×32




**No. YS 604**  
SIZE (d×D×B) : Φ17×Φ50×12




**No. YS 611**  
SIZE (D×C×B) : Φ16×Φ32×8




**No. YSN 01**  
SIZE (d×D×C×B) : Φ16×Φ42×8×8.1




**No. YSN 03**  
SIZE (d×D×B) : Φ25×Φ62×16




**No. YSN 06**  
SIZE (d×D×C×B) : Φ16×Φ33×8×8.1




**No. YSN 07**  
SIZE (d×D×B) : Φ30×Φ55×19




**No. YSN 08**  
SIZE (d×D×C×B) : Φ30×Φ62×20




**No. YSN 10A**  
SIZE (D×C×B) : Φ100×48×80



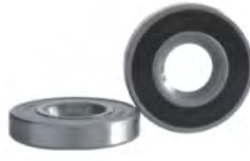
**No. YSN 11A**  
SIZE (D×C×B) : Φ100×48×86




**No. YSN 14**  
SIZE (d×D×C×B) : Φ16×Φ42×7×8.1




**No. YSN 16**  
SIZE (d×D×C×B) : Φ16×Φ42×9.9×10




**No. YSN 17**  
SIZE (d×D×C×B) : Φ16×Φ42×8×8.1




**No. YSN 23**  
SIZE (d×D×B) : Φ36×Φ120×49




**No. 6603AV/YA2**  
SIZE (d×D×C×B) : Φ17×Φ42×8×8.1



**No. 178807V**  
SIZE (d×D×B) : Φ17×Φ88×7

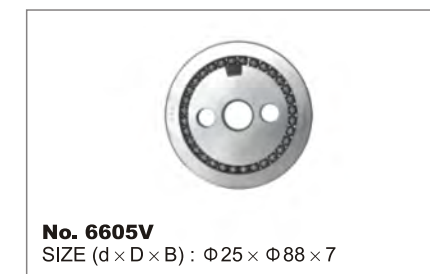
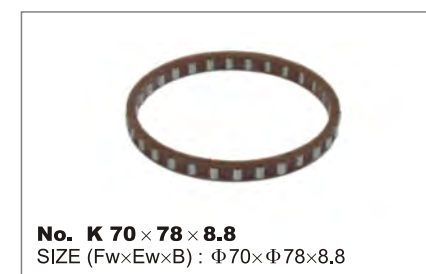
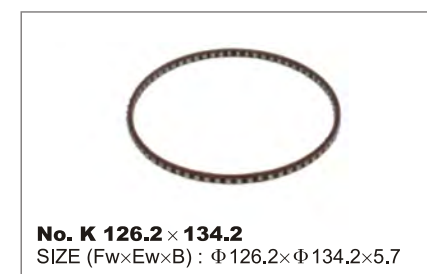
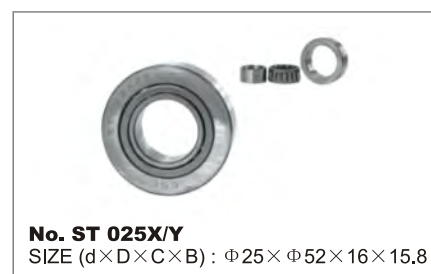


**No. NK 405214**  
SIZE (Fw×D×B) : Φ40×Φ52×14



**No. NK 506212**  
SIZE (Fw×D×B) : Φ50×Φ62×12







**No. HK 1514RS**  
SIZE (Fw×D×B) : Φ15×Φ21×14



**No. 4624906**  
SIZE (Fw×D×B) : Φ35×Φ47×17



**No. 61908X3-2N**  
SIZE (d×D×B) : Φ40×Φ77×12



**No. 61910X3**  
SIZE (d×D×B) : Φ50×Φ77×12



**No. 120(K)~1210(K)**



**No. NUTR10408V**  
SIZE (d×D×C×B) : Φ10×Φ40×6×7.3



**No. YS 614**



**No. YSN 27**  
SIZE (d×D×C×B) : Φ17×Φ44×8×8.1



**No. 6005X2-2ZN/B**  
SIZE (d×D×C×B) : Φ25×Φ47×11.8×12



**No. 6006X2-2RSN/BYC**  
SIZE (d×D×C×B) : Φ30×Φ55×11.8×12



**No. 175208V**  
SIZE (d×D×C×B) : Φ17×Φ52×8×8.2



**No. YS12902S02**  
SIZE (d×D×C×B) : Φ108×Φ168×33.2×51



**No. SB 101398**  
SIZE (d×D×C×B) : Φ20×Φ130×6.5×6.5



**No. ISP 5656(YSN 33)**  
SIZE (d×D×C×B) : Φ6×Φ140×7/4.5×13



**No. YSN 39**  
SIZE (d×D×C×B) : Φ30×Φ54×20×30



**No. C1204**  
SIZE (d×D×C×B) : Φ20×Φ47×14×22



**No. NATV 21759A (NATV 21759)**  
SIZE (d×D×C×B) : Φ21×Φ75×9.2×9.5



**No. NUTR 2562-2PS**  
SIZE (d×D×C×B) : Φ25×Φ62×24×25



**No. YSN 40**  
SIZE (d×D×C×B) : Φ35×Φ54×20×30



**No. 82103H**  
SIZE (d×D×C×B) : Φ17×Φ42×7.5×8



**No. NUTR 3080**  
SIZE (d×D×C×B) : Φ30×Φ80×30×32



**No. YSN 31**  
SIZE (d×Ew×B) : Φ25×Φ41.26×6.6



**No. NK 506417**  
SIZE (Fw×D×C) : Φ50×Φ64×17



**No. NU 214E-TVP2**  
SIZE (d×D×B) : Φ65×Φ125×24



**No. YSN1B326100**  
SIZE (d×D×B) : Φ55×Φ110×25



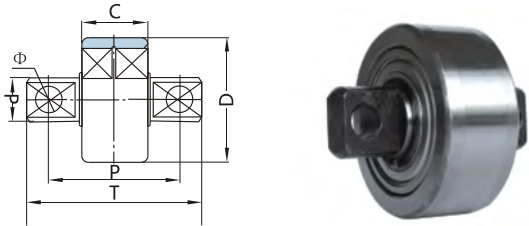
**No. YSN 35**  
SIZE (d×D×B) : Φ16×Φ44.2×7.5×8



**No. NUTR 3580**  
SIZE (d×D×C/T) : Φ35×Φ80×29/30

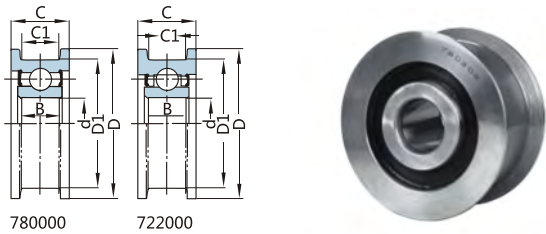


SIDE ROLLER BEARINGS



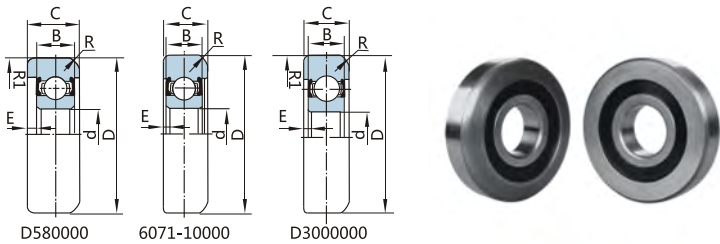
Bearing No.	Structure	Boundary Dimensions						Application
		d	D	C	L	P	Φ	
C2-3	sleeve bearing	20	58	30	80	60	12.5	2~3t
C6-10	sleeve bearing	30	82	34.5	90	70	13	6~10t

FORKLIFT MAST BEARINGS



Bearing No.	Boundary Dimensions					
	d	D	D1	C	C1	B
780306	30	96	80	24	16	19
780606K	30	87	75	34	22	26
780308	40	120	110	40	30	23
780408	45	134	115	39	29	27
780309	45	138	125	58	34	25
780309K	45	126	110	36	25	25
722711	55	144	122	56	43	40

FORKLIFT MAST BEARINGS



Bearing No.	Boundary Dimensions						
	d	D	C	B	E	R1	R
D580006	35	98.5	29	21	5.24	387	8
D580007	35	99	29	21	5.24	387	8
D581814	40	108.6	31	23	5	220	6
6071-13220	40	114.12	28.08	23	1.38	—	8
D300038	45	127	31.75	25	3.35	242	7.92



SIZE (d×D×B):Φ135×Φ205×14



SIZE(d×D×B) :Φ115×Φ184×28



SIZE (d×D×B):Φ62×Φ280×35



SIZE (d×D×B):Φ82×Φ260×30



SIZE (d×D×B):Φ200×Φ290×24



SIZE (d×D×B):Φ50×Φ110×14



SIZE (d×D×B):Φ140×Φ300×36

Tolerance symboles acc. to ISO 1132

Bore diameter

d	"nominal bore diameter (smallest theoretical diameter for tapered bore)"
ds	single bore diameter
dsp	single bore diameter in a single plane
dmp=(dsp max+dsp min)/2	mean bore diameter in a single plane
△ds=ds-d	deviation of a single bore diameter
△dmp=dmp-d	deviation of mean bore diameter in a single plane
Vdp=dsp max-dsp min	variation of bore diameter in a single plane
Vdmp=dmp max-dmp min	variation of mean bore diameter

Outer diameter

D	nominal outer diameter
Ds	single outer diameter
Dsp	single outer diameter in a single plane
Dmp=(Dsp max+Dsp min)/2	mean outer diameter in a single plane
△Ds=Ds-D	deviation of a single outer diameter
△Dmp=Dmp-D	deviation of mean outer diameter in a single plane
VDp=Dsp max-Dsp min	variation of outer diameter in a single plane
VDmp=Dmp max-Dmp min	variation of mean outer diameter

Geometric tolerance

VBs/VCs	variation of ring width (VBs:inner ring, VCs:outer ring)
Kia	radial runout of inner ring of assembled bearing
Kea	radial runout of outer ring of assembled bearing
Sia	axial runout of inner ring of assembled bearing
Sea	axial runout of outer ring of assembled bearing
Sd	perpendicularity of inner ring face with respect to the bore
SD	perpendicularity of outer ring outer surface with respect to the face

Material

Material of bearing rings and rolling elements	
specification	temperability
GCr15	through-hardening
GCr15SiMn	through-hardening
X30CrMoN15-1	stainless, through-hardening
8620	case hardening

Material for cage		
cage material	material	description
sheet steel	08/10	deep-drawing sheet steel
Brass	HPb59-1	solid cage, machined
Polyamid	PA66-GF25	glass fibre reinforced
Polyamid	PA46-GF30	glass fibre reinforced
Phenolic	Phenolic resin	machined

Material for shield
The standard version is made of sheet steel

Material for seals		
Designation	Material	Temperature range[°C]
NBR (standard material)	Nitrile-butadiene rubber	-30~120
AEM	Alpha-ethylmescaline rubber	-30~180
FKM	fluoro rubber	-20~+200



Manufacturer	Grease Type	Oil type	Thickener	Kinematic viscosity of the base oil [mm <sup>2</sup> /s]40℃
SINOPEC	BLE	mineral oil	organic thickener	
SINOPEC	BME	mineral oil, synthetic oil	compound lithium soap	80
CHEVRON	SRI—2	ISOSYN™	polyurea	116
KLUBER	ISOFLEX NBU 15	mineral oil, ester oil, synthetic hydrocarbon oil	compound barium soap	21
KLUBER	Klubersplex BE31-502	mineral oil	special calcium soap	500
KYDOD YUSHI	MULTEMP SRL	polyol ester, diester	lithium soap	26
SHELL	S2 V220 2#	mineral oil	compound lithium soap	189
SHELL	S2 V100Q 2#	mineral oil	lithium soap	75
SHELL	S2 V100 2#	mineral oil	lithium soap	75
Mobil	Mobilgrease 28	synthetic oil	clay	30
LUBCON	THERMOPLEX TMP 703 HT	ester oil	polyurea	70
LUBCON	THERMOPLEX L552	ester oil	special lithium soap	55

Kinematic viscosity of the base oil [mm <sup>2</sup> /s]100℃	Worked penetration [0.1MM]	Drop point(℃)	Lower service tep.(℃)	Upper service tep.(℃)	Note
	280	260	-25	200	"Applied in the bearings of motors,High temperature resistance,Speed factor:400000"
	281	314	-40	180	"High-pressure,Anti-wear, Wide temperature range"
12.3	292	>227	-29	177	"Wide temperature range, Excellent oxidation stability"
4.5	265-295		-40	130	Applied in spindles
31	245-275	>190	-10	140	"High-pressure,Low speed"
5.1	250	190	-50	150	"Applied in motors,Low noise"
15.6	265-295	185	-20	100	High-pressure
8.3	266	195	-25	120	"Applied in motors,Low noise"
8	325	175	-20	120	Applied in motors
5.7	295	308	-54	177	"Wide temperature range,Good wear and corrosion resistance"
9.6		>250	-40	200	High temperature resistance
9		>230	-40	180	High-pressure

For detailed information of precision bearings, please refer to CSC precision bearing catalogue.

Notes: