SWS Bearings LTD
High Quality Bearing Manufacturer

Ceramic Bearing

POPULAR SIZE





SWS Bearings LTD

Your Reliable Bearings Factory

SWS Bearings LTD
High Quality Bearing Manufacturer

SWS Bearings LTD is one of the most reliable bearings factories and exportersin China. We mainly supply roller and ball bearings.

SWS was founded in 2007, located in Changzhou city,jiangsu Province It just takes around 2 hours from Changzhou to Shanghai by car, and very convenient transportation.

SWS has invested three factories in Shandong, and Dalian city. Our products sell worldwide.

Our products and service include:

- ●Miniature and middle-large size deep groove ball bearing
- ●Double-row self-aligning roller bearing
- ●Four-row heavy type cylindrical roller bearing
- ●Self-aligning roller bearing
- ●Axial thrust ball bearing, thrust ball and roller bearing
- ●Single and double taper roller bearing
- ●Needle roller bearing
- ●High precision spindle bearing
- ●Pillow block bearing, bush, steel balls
- ●Technical support
- ●Maintenance
- ●Products training

Bore size range:3mm~6.5m
Weight range:10.5g~2.6ton

SWS bearings are widely used in railway, mining, mechanical equipment, automobile, ship, metallurgy, petrifaction, electric power, agriculture, textile and aviation, etc.

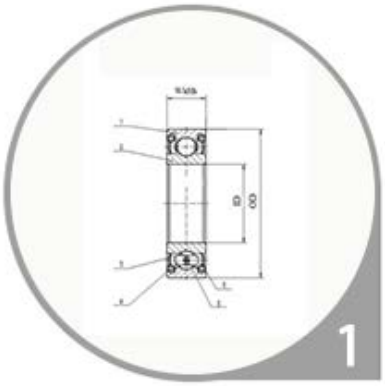
SWS products have sell to Europe, Asia, America, south-east Asia, which are our most important market. We have spent much time on developing new products, and also produce top quality products. We are very popular in domestic and abroad.

Welcome your inquiry and Look forward our cooperation in the future.



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Production Process



A.Design



B.Material



C.Forging



D.Grinding



E.Heat Treatment



F.Turning



G.Assembly



H.Inspection



I.Packing

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Inspection and Test



Projection measuring instrument



Roundness



Profiler



Life testing machine



Left digital hardness tester,the right of the microspoce



Left measuring roundness,contour,
The right of the measured rougsured,convexity

Packaging & Shipping









SHIPMENT ➡ PACKAGING ➡ TRUCK LOADING

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Application Area

Space



Ship



Automobile



Food



Medical care



Metallurgy



Energy



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1.Full ceramic(All-ceramic) bearing of ZrO2 materiarial

Full ceramic bearing have excellence performance as special electrical and magnetism resistance, wear and corrosion resistance, lubrication and maintenance free when working, especially high and low- temperature application .etc. could be used in awful environment and specially condition. The rings and balls made by full ceramic material:ZrO2, as a standard constructure, the cage made by PTFE, generally we also could make the cage with GRPA66-25,PEEK,PI,AISI SUS304,SUS316,Cu,etc



2.Full ceramic(All-ceramic) bearing of Si3N4 material



Full ceramic bearing made with Si3N4 have some better performance than ZrO2, the rings and balls made by full ceramic material:Si3N4, as a standard constructure,the cage made by PTFE, generally we also could make the cage with GFRPA66-25,PEEK,PI, Phonemic Textiles Tube ,etc. Compares than the material of ZrO2 ,The SiN4 ceramics bearings could endure heavier load and could be used in higher temperature environment. Also we could offer precision ceramic bearing which generally used in high-speed and high-rigidity spindle.the manufactured clearance could be P4 TO UP grade.

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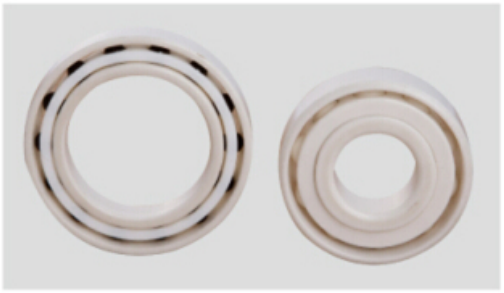
3.Full ceramic bearing of full complement balls

Full ceramic bearing of full complement balls has an add-ball gap on its side. Because using no cage design, the bearing able to install more ceramic balls than the standard construction, so the heavier radial load ability increased more. In addition, to avoid the limited of the cage material, this bearing same as the full ceramic bearing of ceramic cage has corrosion resistance and high temperature application. This series of bearing is not for high ¨Cspeed choice, it should be to install on the unforced side. As there have in the inner and out rings the bearing couldn't be used in axial load application.



4.Full ceramic(All-ceramic) bearing of ceramic cage

Ceramic cage has excellence performance as wear and corrosion resistance, high strength, lubrication and maintenance free when working. Adopting the ceramic cage, Ceramic bearing can be used in the most inclemency environments as corrosive, low temperature, high vacuum. The normal used ceramic materials with ZrO2.





5.Hybrid construction ceramic ball bearing



Ceramic ball especially Si3N4 have the following performance as low density, high strength, low friction coefficient, electrical and magnetism resistance, wear resistance, well rigidity, lubrication and maintenance free when working.

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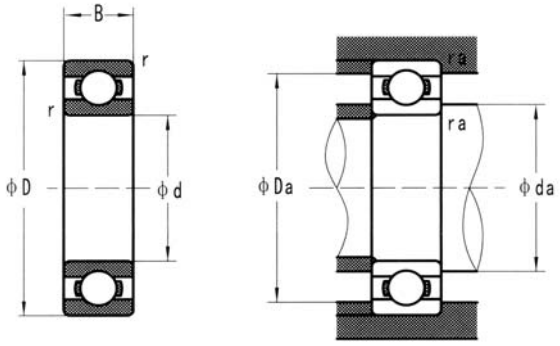
Insert hybrid construction ceramic ball bearing…… 21

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Deep groove ceramic ball bearing

SWS Bearings LTD
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deep groove ceramic ball bearing



Bearing No.	Boundary dimensions(mm)				Mounting dimensions(mm)				Mass	
					da	da	Da	ra	（kg）	(refer）
	d	D	B	r (min）	min	max	max	max	ZrO2	Si3N4
684CE	4	9	2.5	0.1	4.8	/	8.2	0.1	0.0005	0.0003
694CE		11	4	0.15	5.2	/	9.8	0.15	0.0013	0.0007
604CE		12	4	0.2	5.6	/	10.4	0.2	0.0017	0.0009
624CE		13	5	0.2	5.6	/	11.4	0.2	0.0023	0.0013
634CE		16	5	0.3	6	/	14	0.3	0.004	0.0022
685CE	5	11	3	0.15	6.2	/	9.8	0.15	0.0009	0.0005
695CE		13	4	0.2	6.6	/	11.4	0.2	0.0019	0.001
605CE		14	5	0.2	6.6	/	12.4	0.2	0.0027	0.0015
625CE		16	5	0.3	7	/	14	0.3	0.0038	0.0021
635CE		19	6	0.3	7	/	17	0.3	0.0066	0.0036
686CE	6	13	3.5	0.15	7.2	/	11.8	0.15	0.0015	0.0008
696CE		15	5	0.2	7.6	/	13.4	0.2	0.003	0.0016
606CE		17	6	0.3	8	/	15	0.3	0.0046	0.0025
626CE		19	6	0.3	8	/	17	0.3	0.0063	0.0034
636CE		22	7	0.3	8	/	20	0.3	0.0108	0.0058
687CE	7	14	3.5	0.15	8.2	/	12.8	0.15	0.0017	0.0009
697CE		17	5	0.3	9	/	15	0.3	0.004	0.0022
607CE		19	6	0.3	9	/	17	0.3	0.0059	0.0032
627CE		22	7	0.3	9	/	20	0.3	0.0098	0.0053
637CE		26	9	0.3	9	/	24	0.3	0.0185	0.01
688CE	8	16	4	0.2	9.6	/	14.4	0.2	0.0025	0.0014
698CE		19	6	0.3	10	/	17	0.3	0.0056	0.003
608CE		22	7	0.3	10	/	20	0.3	0.0093	0.005
628CE		24	8	0.3	10	/	22	0.3	0.013	0.0072
638CE		28	9	0.3	10	/	26	0.3	0.022	0.012
689CE	9	17	4	0.2	10.6	/	15.4	0.2	0.0027	0.0015
699CE		20	6	0.3	11	/	18	0.3	0.0065	0.0035
609CE		24	7	0.3	11	/	22	0.3	0.011	0.006
629CE		26	8	0.3	11	/	24	0.3	0.015	0.0081
639CE		30	10	0.6	13	/	26	0.6	0.028	0.015
6800CE	10	19	5	0.3	12	12	17	0.3	0.004	0.0021
6900CE		22	6	0.3	12	12.5	20	0.3	0.007	0.0038
6000CE		26	8	0.3	12	13	24	0.3	0.014	0.0075
6200CE		30	9	0.6	14	16	26	0.6	0.025	0.013
6300CE		35	11	0.6	14	16.5	31	0.6	0.04	0.022
6801CE	12	21	5	0.3	14	14	19	0.3	0.005	0.0025
6901CE		24	6	0.3	14	14.5	22	0.3	0.008	0.0042
16001CE		28	7	0.3	14	/	26	0.3	0.015	0.0079
6001CE		28	8	0.3	14	15.5	26	0.3	0.017	0.0092
6201CE		32	10	0.6	16	17	28	0.6	0.028	0.015
6301CE		37	12	1	17	18	32	1	0.046	0.025

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Deep groove ceramic ball bearing

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Bearing No.	Boundary dimensions(mm)				Mounting dimensions(mm)				Mass	
					da	da	Da	ra	（kg）	(refer）
	d	D	B	r（min）	min	max	max	max	ZrO2	Si3N4
6802CE	15	24	5	0.3	17	17	22	0.3	0.005	0.0029
6902CE		28	7	0.3	17	17	26	0.3	0.012	0.0063
16002CE		32	8	0.3	17	/	30	0.3	0.021	0.011
6002CE		32	9	0.3	17	19	30	0.3	0.024	0.013
6202CE		35	11	0.6	19	20.5	31	0.3	0.035	0.019
6302CE		42	13	1	20	22.5	37	1	0.064	0.035
6803CE	17	26	5	0.3	19	19	24	0.3	0.005	0.0029
6903CE		30	7	0.3	19	19.5	28	0.3	0.013	0.0071
16003CE		35	8	0.3	19	/	33	0.3	0.025	0.014
6003CE		35	10	0.3	19	21.5	33	0.3	0.032	0.017
6203CE		40	12	0.6	21	23.5	36	0.6	0.052	0.028
6303CE		47	14	1	22	25.5	42	1	0.087	0.047
6403CE		62	17	1.1	23.5	/	55.5	1	0.21	0.11
6804CE	20	32	7	0.3	22	22.5	30	0.3	0.013	0.007
6904CE		37	9	0.3	22	24	35	0.3	0.028	0.015
16004CE		42	8	0.3	22	/	40	0.3	0.037	0.02
6004CE		42	12	0.6	24	25.5	38	0.6	0.052	0.028
6204CE		47	14	1	25	26.5	42	1	0.082	0.045
6304CE		52	15	1.1	26.5	28	45.5	1	0.11	0.06
6404CE		72	19	1.1	26.5	/	65.5	1	0.31	0.17
6805CE	25	37	7	0.3	27	27	35	0.3	0.016	0.009
6905CE		42	9	0.3	27	28.5	40	0.3	0.032	0.018
16005CE		47	8	0.3	27	/	45	0.3	0.045	0.025
6005CE		47	12	0.6	29	30	43	0.6	0.061	0.033
6205CE		52	15	1	30	32	47	1	0.099	0.054
6305CE		62	17	1.1	31.5	36	55.5	1	0.18	0.098
6405CE		80	21	1.5	33	/	72	1.5	0.41	0.22
6806CE	30	42	7	0.3	32	32	50	1	0.018	0.01
6906CE		47	9	0.3	32	34	57	1	0.04	0.022
16006CE		55	9	0.3	32	42.5	65.5	1	0.067	0.036
6006CE		55	13	1	35	36.5	53	1	0.089	0.048
6206CE		62	16	1	35	38.5	60	1	0.15	0.083
6306CE		72	19	1.1	36.5	42.5	68.5	1	0.27	0.14
6406CE		90	23	1.5	54	/	82	2	0.57	0.31
6807CE	35	47	7	0.3	37	37	45	0.3	0.021	0.011
6907CE		55	10	0.6	39	39	51	0.6	0.058	0.031
16007CE		62	9	0.3	37	/	60	0.3	0.082	0.045
6007CE		62	14	1	40	41.5	57	1	0.12	0.063
6207CE		72	17	1.1	41.5	44.5	65.5	1	0.22	0.12
6307CE		80	21	1.5	43	47	72	1.5	0.36	0.19
6407CE		100	25	1.5	43	/	92	1.5	0.73	0.4
6808CE	40	52	7	0.3	42	42	50	0.3	0.02	0.013
6908CE		62	12	0.6	44	46	58	0.6	0.09	0.05
16008CE		68	9	0.3	42	/	66	0.3	0.1	0.05
6008CE		68	15	1	45	47.5	63	1	0.15	0.08
6208CE		80	18	1.1	46.5	50.5	73.5	1	0.28	0.15
6308CE		90	23	1.5	48	53	80	1.5	0.49	0.27
6408CE		110	27	2	49	/	101	2	0.946	0.513
6809CE	45	58	7	0.3	47	47.5	56	0.3	0.029	0.016
6909CE		68	12	0.6	49	50	64	0.6	0.097	0.053
16009CE		75	10	0.6	49	/	71	0.6	0.13	0.07
6009CE		75	16	1	50	53.5	70	1	0.19	0.1
6209CE		85	19	1.1	51.5	55.5	78.5	1	0.32	0.175
6309CE		100	25	1.5	53	61.5	92	1.5	0.64	0.345
6409CE		120	29	2	54	/	111	2	1.18	0.64

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Deep groove ceramic ball bearing

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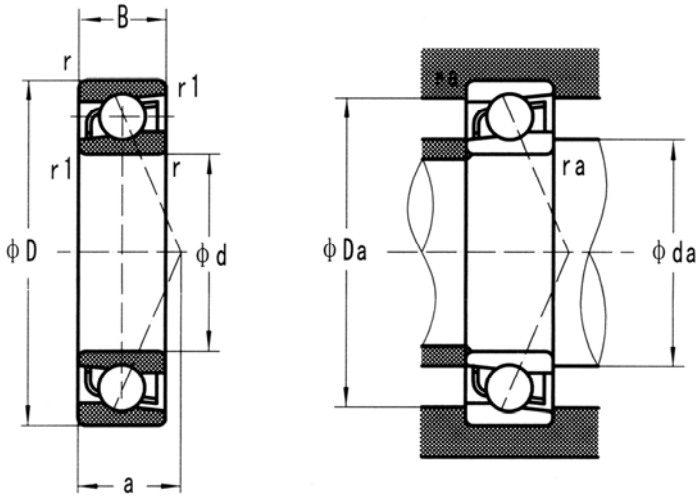
Bearing No.	Boundary dimensions(mm)				Mounting dimensions(mm)				Mass	
					da	da	Da	ra	（kg）	(refer）
	d	D	B	r (min）	min	max	max	max	ZrO2	Si3N4
6810CE	50	65	7	0.3	52	52.5	63	0.3	0.038	0.021
6910CE		72	12	0.6	54	55	68	0.6	0.1	0.06
16010CE		80	10	0.6	54	/	76	0.6	0.13	0.07
6010CE		80	16	1	55	58.5	75	1	0.2	0.11
6210CE		90	20	1.1	56.5	60	83.2	1	0.35	0.19
6310CE		110	27	2	59	68	101	2	0.82	0.44
6410CE		130	31	2.1	61	/	119	2	1.45	0.78
6811CE	55	72	9	0.3	57	59	70	0.3	0.06	0.03
6911CE		80	13	1	60	61.5	75	1	0.15	0.08
16011CE		90	11	0.6	59	/	86	0.6	0.2	0.11
6011CE		90	18	1.1	61.5	64	83.5	1	0.29	0.16
6211CE		100	21	1.5	63	66.5	92	1.5	0.48	0.26
6311CE		120	29	2	64	72.5	111	2	1.05	0.57
6411CE		140	33	2.1	66	/	129	2	1.76	0.95
6812CE	60	78	10	0.3	62	64	76	0.3	0.08	0.04
6912CE		85	13	1	65	66	80	1	0.15	0.08
16012CE		95	11	0.6	64	/	91	0.6	0.22	0.12
6012CE		95	18	1.1	66.5	69	88.5	1	0.32	0.17
6212CE		110	22	1.5	68	74.5	102	1.5	0.6	0.33
6312CE		130	31	2.1	71	79	119	2	1.32	0.72
6412CE		150	35	2.1	71		139	2	2.13	1.15
6813CE	65	85	10	0.6	69	69	81	0.6	0.1	0.05
6913CE		90	13	1	70	71.5	85	1	0.17	0.09
16013CE		100	11	0.6	69	/	96	0.6	0.23	0.13
6013CE		100	18	1.1	71.5	73	93.5	1	0.34	0.18
6213CE		120	23	1.5	73	80	112	1.5	0.77	0.42
6313CE		140	33	2.1	76	85.5	129	2	1.62	0.88
6814CE	70	90	10	0.6	74	74.5	86	0.6	0.1	0.056
6914CE		100	16	1	75	77.5	95	1	0.27	0.15
16014CE		110	13	0.6	74	/	106	0.6	0.34	0.18
6014CE		110	20	1.1	76.5	80.5	103.5	1	0.47	0.25
6214CE		125	24	1.5	78	84	117	1.5	0.84	0.45
6314CE		150	35	2.1	81	92	139	2	1.98	1.07
6815CE	75	95	10	0.6	79	79.5	91	0.6	0.11	0.06
6915CE		105	16	1	80	82	100	1	0.28	0.15
16015CE		115	13	0.6	79	/	111	0.6	0.36	0.19
6015CE		115	20	1.1	81.5	85.5	108.5	1	0.5	0.27
6215CE		130	25	1.5	83	90	122	1.5	0.92	0.5
6816CE	80	100	10	0.6	84	84.5	96	0.6	0.12	0.063
6916CE		110	16	1	85	87.5	105	1	0.3	0.16
16016CE		125	14	0.6	84	/	121	0.6	0.48	0.26
6016CE		125	22	1.1	86.5	91	118.5	1	0.67	0.36
6216CE		140	26	2	89	95.5	131	2	1.09	0.59
6817CE	85	110	13	1	90	90.5	105	1	0.2	0.11
6917CE		120	18	1.1	91.5	94.5	113.5	1	0.42	0.23
16017CE		130	14	0.6	89	/	126	0.6	0.5	0.27
6017CE		130	22	1.1	91.5	96	123.5	1	0.71	0.38
6217CE		150	28	2	94	102	141	2	1.35	0.73
6818CE	90	115	13	1	95	95.5	110	1	0.21	0.12
6918CE		125	18	1.1	96.5	98.5	118.5	1	0.45	0.24
16018CE		140	16	1	95	/	135	1	0.67	0.36
6018CE		140	24	1.5	98	103	132	1.5	0.92	0.5

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Angular contact ceramic ball bearings

SWS Bearings LTD
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Full ceramic bearing of Si3N4 material



Bearing No	boundary dimensions（mm）					mounting dimensions (mm)			mass	
						da	Da	ra	（kg）	(refer）
	d	D	B	r（min）	r1 (min）	min	max	max	ZrO2	Si3N4
7900CE	10	22	6	0.3	0.15	12.5	19.5	0.3	0.007	0.0038
7000CE		26	8	0.3	0.15	12.5	23.5	0.3	0.014	0.0075
7200CE		30	9	0.6	0.3	15	25	0.6	0.025	0.013
7300CE		35	11	0.6	0.3	15	30	0.6	0.04	0.022
7901CE	12	24	6	0.3	0.15	14.5	21.5	0.3	0.008	0.0042
7001CE		28	8	0.3	0.15	14.5	25.5	0.3	0.017	0.0092
7201CE		32	10	0.6	0.3	17	27	0.6	0.028	0.015
7301CE		37	12	1	0.6	18	31	1	0.046	0.025
7902CE	15	28	7	0.3	0.15	17.5	25.5	0.3	0.012	0.0063
7002CE		32	9	0.3	0.15	17.5	29.5	0.3	0.024	0.013
7202CE		35	11	0.6	0.3	20	30	0.3	0.035	0.019
7302CE		42	13	1	0.6	21	36	1	0.064	0.035
7903CE	17	30	7	0.3	0.15	19.5	27.5	0.3	0.013	0.0071
7003CE		35	10	0.3	0.15	19.5	32.5	0.3	0.032	0.017
7203CE		40	12	0.6	0.3	22	35	0.6	0.052	0.028
7303CE		47	14	1	0.6	23	41	1	0.087	0.047
7904CE	20	37	9	0.3	0.15	22.5	34.5	0.3	0.028	0.015
7004CE		42	12	0.6	0.3	25	37	0.6	0.052	0.028
7204CE		47	14	1	0.6	26	41	1	0.082	0.045
7304CE		52	15	1.1	0.6	27	45	1	0.11	0.06
7905CE	25	42	9	0.3	0.15	27.5	39.5	0.3	0.032	0.018
7005CE		47	12	0.6	0.3	30	42	0.6	0.061	0.033
7205CE		52	15	1	0.6	31	46	1	0.099	0.054
7305CE		62	17	1.1	0.6	32	55	1	0.18	0.098
7906CE	30	47	9	0.3	0.15	32.5	44.5	1	0.04	0.022
7006CE		55	13	1	0.6	36	49	1	0.089	0.048
7206CE		62	16	1	0.6	36	56	1	0.15	0.083
7306CE		72	19	1.1	0.6	37	65	1	0.27	0.14
7907CE	35	55	10	0.6	0.3	40	50	0.6	0.058	0.031
7007CE		62	14	1	0.6	41	56	1	0.12	0.063
7207CE		72	17	1.1	0.6	42	65	1	0.22	0.12
7307CE		80	21	1.5	1	44	71	1.5	0.36	0.19
7908CE	40	62	12	0.6	0.3	45	57	0.6	0.09	0.05
7008CE		68	15	1	0.6	46	62	1	0.15	0.08
7208CE		80	18	1.1	0.6	47	73	1	0.28	0.15
7308CE		90	23	1.5	1	49	81	1.5	0.49	0.27

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Angular contact ceramic ball bearings

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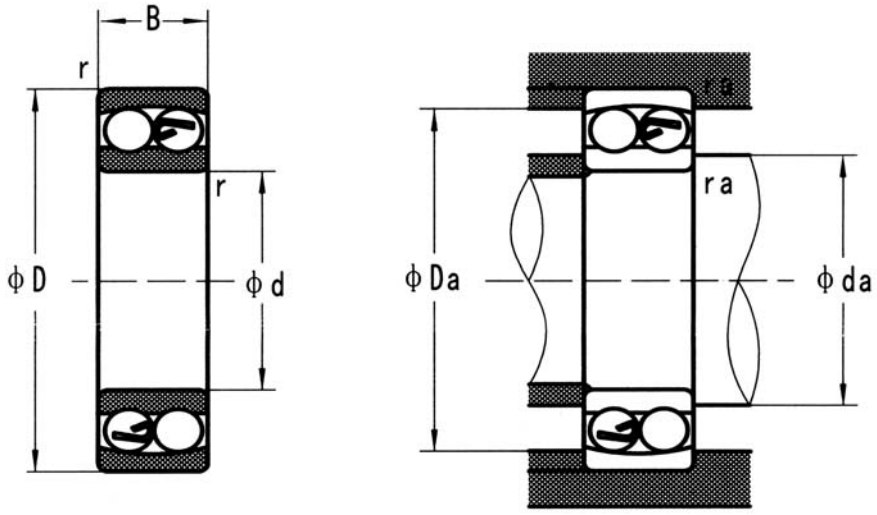
Bearing No	boundary dimensions（mm）					mounting dimensions (mm)			mass	
						da	Da	ra	（kg）	(refer）
	d	D	B	r（min）	r1 (min）	min	max	max	ZrO2	Si3N4
7909CE	45	68	12	0.6	0.3	50	63	0.6	0.097	0.053
7009CE		75	16	1	0.6	51	69	1	0.19	0.1
7209CE		85	19	1.1	0.6	52	78	1	0.32	0.175
7309CE		100	25	1.5	1	54	91	1.5	0.64	0.345
7910CE	50	72	12	0.6	0.3	55	67	0.6	0.1	0.06
7010CE		80	16	1	0.6	56	74	1	0.2	0.11
7210CE		90	20	1.1	0.6	57	83	1	0.35	0.19
7310CE		110	27	2	1	60	100	2	0.82	0.44
7911CE	55	80	13	1	0.6	61	74	1	0.15	0.08
7011CE		90	18	1.1	0.6	62	83	1	0.29	0.16
7211CE		100	21	1.5	1	64	91	1.5	0.48	0.26
7311CE		120	29	2	1	65	110	2	1.05	0.57
7912CE	60	85	13	1	0.6	66	79	1	0.15	0.08
7012CE		95	18	1.1	0.6	67	88	1	0.32	0.17
7212CE		110	22	1.5	1	69	101	1.5	0.6	0.33
7312CE		130	31	2.1	1.1	72	118	2	1.32	0.72
7913CE	65	90	13	1	0.6	71	84	1	0.17	0.09
7013CE		100	18	1.1	0.6	72	93	1	0.34	0.18
7213CE		120	23	1.5	1	74	111	1.5	0.77	0.42
7313CE		140	33	2.1	1.1	77	128	2	1.62	0.88
7914CE	70	100	16	1	0.6	76	94	1	0.27	0.15
7014CE		110	20	1.1	0.6	77	103	1	0.47	0.25
7214CE		125	24	1.5	1	79	116	1.5	0.84	0.45
7314CE		150	35	2.1	1.1	82	138	2	1.98	1.07
7915CE	75	105	16	1	0.6	81	99	1	0.28	0.15
7015CE		115	20	1.1	0.6	82	108	1	0.5	0.27
7215CE		130	25	1.5	1	84	121	1.5	0.92	0.5
7916CE	80	110	16	1	0.6	86	104	1	0.3	0.16
7016CE		125	22	1.1	0.6	87	118	1	0.67	0.36
7216CE		140	26	2	1	90	130	2	1.09	0.59
7017CE	85	130	22	1.1	0.6	92	123	1	0.71	0.38
7217CE		150	28	2	1	95	140	2	1.35	0.73
7918CE	90	125	18	1.1	0.6	97	118	1	0.45	0.24
7018CE		140	24	1.5	1	99	131	1.5	0.92	0.5
7919CE	95	130	18	1.1	0.6	102	123	1	0.46	0.25
7019CE		145	24	1.5	1	104	136	1.5	0.95	0.51
7920CE	100	140	20	1.1	0.6	107	133	1	0.64	0.35
7020CE		150	24	1.5	1	109	141	1.5	0.99	0.54
7921CE	105	145	20	1.1	0.6	112	138	1	0.66	0.36
7922CE	110	150	20	1.1	0.6	117	143	1	0.69	0.37

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Self-aligning ceramic ball bearings

Full ceramic bearing of ZrO2 material



Bearing No	Boundary dimensions（mm）				Mounting dimensions (mm)			mass	
					da	Da	ra	（kg）	(refer)
	d	D	B	r (min）	min	max	max	ZrO2	Si3N4
135CE	5	19	6	0.3	7	17	0.3	0.007	0.004
126CE	6	19	6	0.3	8	17	0.3	0.007	0.004
127CE	7	22	7	0.3	9	20	0.3	0.011	0.006
108CE	8	22	7	0.3	10	20	0.3	0.011	0.006
129CE	9	26	8	0.6	13	22	0.6	0.017	0.009
1200CE	10	30	9	0.6	14	26	0.6	0.026	0.014
2200CE		30	14	0.6	14	26	0.6	0.036	0.019
1300CE		25	11	0.6	14	31	0.6	0.045	0.024
2300CE		25	17	0.6	14	31	0.6	0.065	0.035
1201CE	12	32	10	0.6	16	28	0.6	0.031	0.016
2201CE		32	14	0.6	16	28	0.6	0.041	0.022
1301CE		37	12	1	17	32	1	0.052	0.027
2301CE		37	17	1	17	32	1	0.073	0.039
1202CE	15	35	11	0.6	19	31	0.6	0.038	0.02
2202CE		35	14	0.6	19	31	0.6	0.046	0.025
1302CE		42	13	1	20	37	1	0.072	0.039
2302CE		42	17	1	20	37	1	0.088	0.047
1203CE	17	40	12	0.6	21	36	0.6	0.056	0.03
2203CE		40	16	0.6	21	36	0.6	0.068	0.036
1303CE		47	14	1	22	42	1	0.1	0.053
2303CE		47	19	1	22	42	1	0.12	0.065
1204CE	20	47	14	1	25	42	1	0.09	0.049
2204CE		47	18	1	25	42	1	0.11	0.057
1304CE		52	15	1.1	26.5	45.5	1	0.13	0.067
1304CE		52	21	1.1	26.5	45.5	1	0.16	0.086
1205CE	25	52	15	1	30	47	1	0.11	0.058
2205CE		52	18	1	30	47	1	0.13	0.067
1305CE		62	17	1.1	31.5	55.5	1	0.2	0.11
2305CE		62	24	1.1	31.5	55.5	1	0.26	0.14
1206CE	30	62	16	1	35	57	1	0.17	0.09
2206CE		62	20	1	35	57	1	0.2	0.11
1306CE		72	19	1.1	36.5	65.5	1	0.3	0.16
2306CE		72	27	1.1	36.5	65.5	1	0.38	0.21

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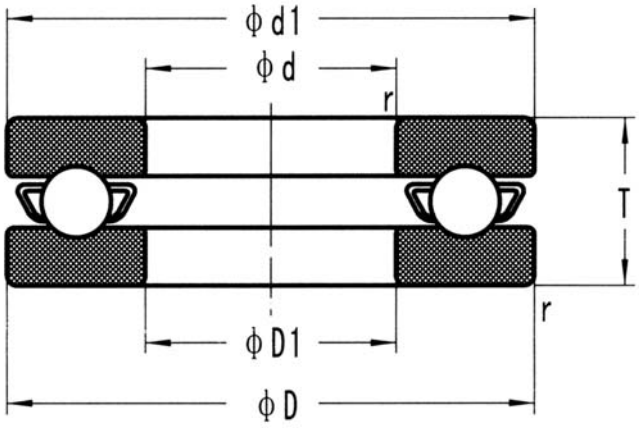
Bearing No	Boundary dimensions（mm）				Mounting dimensions (mm)			mass	
					da	Da	ra	（kg）	(refer）
	d	D	B	r（min）	min	max	max	ZrO2	Si3N4
1207CE	35	72	17	1.1	41.5	65.5	1	0.25	0.13
2207CE		72	23	1.1	41.5	65.5	1	0.31	0.17
1307CE		80	21	1.5	43	72	1.5	0.39	0.21
2307CE		80	31	1.5	43	72	1.5	0.52	0.28
1208CE	40	80	18	1.1	46.5	73.5	1	0.32	0.17
2208CE		80	23	1.1	46.5	73.5	1	0.39	0.21
1308CE		90	23	1.5	48	82	1.5	0.55	0.29
2308CE		90	33	1.5	48	82	1.5	0.71	0.38
1209CE	45	85	19	1.1	51.5	78.5	1	0.36	0.19
2209CE		85	23	1.1	51.5	78.5	1	0.42	0.22
1309CE		100	25	1.5	53	92	1.5	0.74	0.39
2309CE		100	36	1.5	53	92	1.5	0.95	0.5
1210CE	50	90	20	1.1	56.5	83.5	1	0.4	0.22
2210CE		90	23	1.1	56.5	83.5	1	0.45	0.24
1310CE		110	27	2	59	101	2	0.93	0.5
2310CE		110	40	2	59	101	2	1.26	0.67
1211CE	55	100	21	1.5	63	92	1.5	0.54	0.29
2211CE		100	25	1.5	63	92	1.5	0.62	0.33
1311CE		120	29	2	64	111	2	1.22	0.65
2311CE		120	43	2	64	111	2	1.62	0.86
1212CE	60	110	22	1.5	68	102	1.5	0.69	0.37
2212CE		110	28	1.5	68	102	1.5	0.84	0.45
1312CE		130	31	2.1	71	119	2	1.51	0.8
2312CE		130	46	2.1	71	119	2	2	1.07
1213CE	65	120	23	1.5	73	112	1.5	0.88	0.47
2213CE		120	31	1.5	73	112	1.5	1.12	0.6
1313CE		140	33	2.1	76	129	2	1.88	1.01
2313CE		140	48	2.1	76	129	2	2.48	1.33
1214CE	70	125	24	1.5	78	117	1.5	0.97	0.52
2214CE		125	31	1.5	78	117	1.5	1.17	0.62
1314CE		150	35	2.1	81	139	2	2.3	1.23
2314CE		150	51	2.1	81	139	2	3.25	1.74
1215CE	75	130	25	1.5	83	122	1.5	1.05	0.56
2215CE		130	31	1.5	83	122	1.5	1.25	0.66
1216CE	80	140	26	2	89	131	2	1.28	0.69
2216CE		140	33	2	89	131	2	1.55	0.82
1217CE	85	150	28	2	94	141	2	1.59	0.85
2217CE		150	36	2	94	141	2	1.94	1.03

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Single direction thrust ceramic ball bearings

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Full ceramic bearing of Si3N4 material dimensions and mounting table



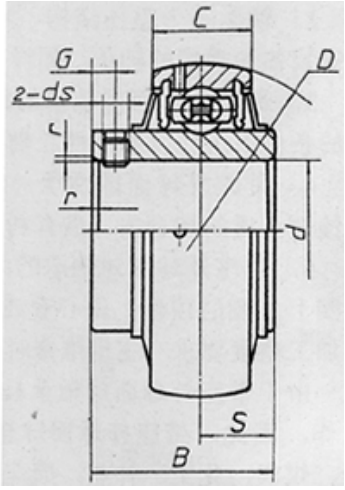
Bearing No	Boundary dimensions（mm）				Mounting dimensions (mm)		mass	
					d1	D1	（kg）	(refer）
	d	D	T	r（min）	max	min	ZrO2	Si3N4
51100CE	10	24	9	0.3	24	11	0.015	0.0078
51200CE		26	11	0.6	26	12	0.022	0.011
51101CE	12	26	9	0.3	26	13	0.016	0.009
51201CE		28	11	0.6	28	14	0.024	0.013
51102CE	15	28	9	0.3	28	16	0.018	0.0094
51202CE		32	12	0.6	32	17	0.033	0.018
51103CE	17	30	9	0.3	30	18	0.019	0.01
51203CE		35	12	0.6	35	19	0.038	0.021
51104CE	20	35	10	0.3	35	21	0.028	0.015
51204CE		40	14	0.6	40	22	0.059	0.032
51105CE	25	42	11	0.6	42	26	0.043	0.023
51205CE		47	15	0.6	47	27	0.085	0.046
51106CE	30	47	11	0.6	47	32	0.049	0.026
51206CE		52	16	0.6	52	32	0.11	0.056
51107CE	35	52	12	0.6	52	37	0.062	0.033
51207CE		62	18	1	62	37	0.16	0.086
51108CE	40	60	13	0.6	60	42	0.092	0.049
51208CE		68	19	1	68	42	0.21	0.11
51109CE	45	65	14	0.6	65	47	0.11	0.059
51209CE		73	20	1	73	47	0.24	0.13
51110CE	50	70	14	0.6	70	52	0.12	0.063
51210CE		78	22	1	78	52	0.29	0.16
51111CE	55	78	16	0.6	78	57	0.17	0.093
51211CE		90	25	1	90	57	0.46	0.25
51112CE	60	85	17	1	85	62	0.22	0.12
51212CE		95	26	1	95	62	0.52	0.28
51113CE	65	90	18	1	90	67	0.25	0.13
51213CE		100	27	1	100	67	0.58	0.31
51114CE	70	95	18	1	95	72	0.27	0.14
51214CE		105	27	1	105	72	0.61	0.33
51115CE	75	100	19	1	100	77	0.3	0.16
51215CE		110	27	1	110	77	0.65	0.35
51116CE	80	105	19	1	105	82	0.32	0.17
51216CE		115	28	1	115	82	0.72	0.38
51117CE	85	110	19	1	110	87	0.34	0.18
51217CE		125	31	1	125	88	0.94	0.5
51118CE	90	120	22	1	120	92	0.5	0.27
51218CE		135	35	1.1	135	93	1.3	0.69

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Full ceramic insert bearings

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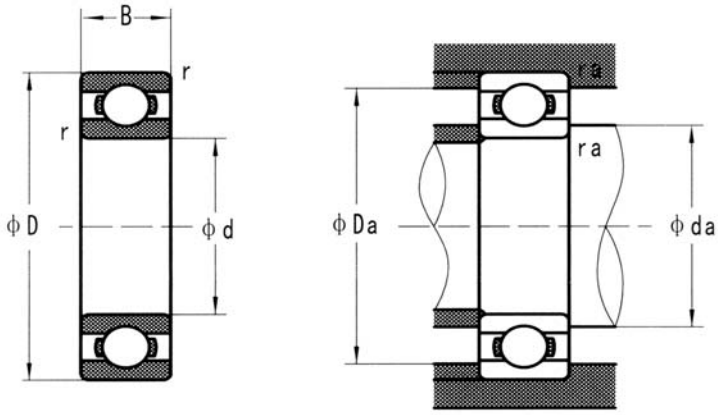
Full ceramic bearing of Si3N4 material/ ceramic cage



Bearing No	Boundary Dimensions (mm)								mass (kg) (refer)	
	d	D	B	S	C	r/min	G	ds	ZrO2	Si3N4
UC201CE	12	47	31	12.7	17	0.6	4.5	M6 x 1	0.16	0.09
UC202CE	15	47	31	12.7	17	0.6	4.5	M6 x 1	0.15	0.08
UC203CE	17	47	31	12.7	17	0.6	4.5	M6 x 1	0.14	0.07
UC204CE	20	47	31	12.7	17	1	4.5	M6 x 1	0.12	0.07
UC205CE	25	52	34.1	14.3	17V	1	5	M6 x 1	0.17	0.09
UC206CE	30	62	38.1	15.9	19	1	5	M6 x 1	0.27	0.14
UC207CE	35	72	42.9	17.5	20	1.1	6	M8 x 1	0.40	0.21
UC208CE	40	80	49.2	19	21	1.1	8	M8 x 1	0.54	0.29
UC209CE	45	85	49.2	19	22	1.1	8	M8 x 1	0.57	0.30
UC210CE	50	90	51.6	19	24	1.1	9	M10 x 1	0.64	0.34
UC211CE	55	100	55.6	22.2	25	1.5	9	M10 x 1	0.89	0.48
UC212CE	60	110	65.1	25.4	27	1.5	10	M10 x 1	1.20	0.64
UC213CE	65	120	65.1	25.4	27	1.5	10	M10 x 1	1.51	0.80
UC214CE	70	125	74.6	30.2	29	1.5	12	M12 x 1.25	1.68	0.89
UC215CE	75	130	77.8	33.3	30	1.5	12	M12 x 1.25	1.86	0.99
UC216CE	80	140	82.6	33.3	33	2	14	M12 x 1.25	2.17	1.16
UC217CE	85	150	85.7	34.1	36	2	14	M12 x 1.25	2.62	1.39
UC218CE	90	160	96	39.7	37	2	14	M12 x 1.25	3.31	1.76
UC220CE	100	180	108	42	41	2	14	M12 x 1.25	3.46	1.85

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Hybrid construction ceramic ball bearing



bearing No	Boundary Dimsions（mm）				Mounting dimsions (mm)				mess	
					da	da	Da	ra	（kg）	(refer）
	d	D	B	r（min）	min	max	max	max	ZrO2	Si3N4
684C	4	9	2.5	0.1	4.8	/	8.2	0.1	0.0005	0.0003
694C		11	4	0.15	5.2	/	9.8	0.15	0.0013	0.0007
604C		12	4	0.2	5.6	/	10.4	0.2	0.0017	0.0009
624C		13	5	0.2	5.6	/	11.4	0.2	0.0023	0.0013
634C		16	5	0.3	6	/	14	0.3	0.004	0.0022
685C	5	11	3	0.15	6.2	/	9.8	0.15	0.0009	0.0005
695C		13	4	0.2	6.6	/	11.4	0.2	0.0019	0.001
605C		14	5	0.2	6.6	/	12.4	0.2	0.0027	0.0015
625C		16	5	0.3	7	/	14	0.3	0.0038	0.0021
635C		19	6	0.3	7	/	17	0.3	0.0066	0.0036
686C	6	13	3.5	0.15	7.2	/	11.8	0.15	0.0015	0.0008
696C		15	5	0.2	7.6	/	13.4	0.2	0.003	0.0016
606C		17	6	0.3	8	/	15	0.3	0.0046	0.0025
626C		19	6	0.3	8	/	17	0.3	0.0063	0.0034
636C		22	7	0.3	8	/	20	0.3	0.0108	0.0058
687C	7	14	3.5	0.15	8.2	/	12.8	0.15	0.0017	0.0009
697C		17	5	0.3	9	/	15	0.3	0.004	0.0022
607C		19	6	0.3	9	/	17	0.3	0.0059	0.0032
627C		22	7	0.3	9	/	20	0.3	0.0098	0.0053
637C		26	9	0.3	9	/	24	0.3	0.0185	0.01
688C	8	16	4	0.2	9.6	/	14.4	0.2	0.0025	0.0014
698C		19	6	0.3	10	/	17	0.3	0.0056	0.003
608C		22	7	0.3	10	/	20	0.3	0.0093	0.005
628C		24	8	0.3	10	/	22	0.3	0.013	0.0072
638C		28	9	0.3	10	/	26	0.3	0.022	0.012
689C	9	17	4	0.2	10.6	/	15.4	0.2	0.0027	0.0015
699C		20	6	0.3	11	/	18	0.3	0.0065	0.0035
609C		24	7	0.3	11	/	22	0.3	0.011	0.006
629C		26	8	0.3	11	/	24	0.3	0.015	0.0081
639C		30	10	0.6	13	/	26	0.6	0.028	0.015
6800C	10	19	5	0.3	12	12	17	0.3	0.004	0.0021
6900C		22	6	0.3	12	12.5	20	0.3	0.007	0.0038
6000C		26	8	0.3	12	13	24	0.3	0.014	0.0075
6200C		30	9	0.6	14	16	26	0.6	0.025	0.013
6300C		35	11	0.6	14	16.5	31	0.6	0.04	0.022
6801C	12	21	5	0.3	14	14	19	0.3	0.005	0.0025
6901C		24	6	0.3	14	14.5	22	0.3	0.008	0.0042
16001C		28	7	0.3	14	/	26	0.3	0.015	0.0079
6001C		28	8	0.3	14	15.5	26	0.3	0.017	0.0092
6201C		32	10	0.6	16	17	28	0.6	0.028	0.015
6301C		37	12	1	17	18	32	1	0.046	0.025

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Single-row deep groove hybrid construction ceramic ball bearing

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bearing No	Boundary Dimsions（mm）				Mounting dimsions (mm)				mess	
					da	da	Da	ra	（kg）	(refer）
	d	D	B	r（min）	min	max	max	max	ZrO2	Si3N4
6802C	15	24	5	0.3	17	17	22	0.3	0.005	0.0029
6902C		28	7	0.3	17	17	26	0.3	0.012	0.0063
16002C		32	8	0.3	17	/	30	0.3	0.021	0.011
6002C		32	9	0.3	17	19	30	0.3	0.024	0.013
6202C		35	11	0.6	19	20.5	31	0.3	0.035	0.019
6302C		42	13	1	20	22.5	37	1	0.064	0.035
6803C	17	26	5	0.3	19	19	24	0.3	0.005	0.0029
6903C		30	7	0.3	19	19.5	28	0.3	0.013	0.0071
16003C		35	8	0.3	19	/	33	0.3	0.025	0.014
6003C		35	10	0.3	19	21.5	33	0.3	0.032	0.017
6203C		40	12	0.6	21	23.5	36	0.6	0.052	0.028
6303C		47	14	1	22	25.5	42	1	0.087	0.047
6403C		62	17	1.1	23.5	/	55.5	1	0.21	0.11
6804C	20	32	7	0.3	22	22.5	30	0.3	0.013	0.007
6904C		37	9	0.3	22	24	35	0.3	0.028	0.015
16004C		42	8	0.3	22	/	40	0.3	0.037	0.02
6004C		42	12	0.6	24	25.5	38	0.6	0.052	0.028
6204C		47	14	1	25	26.5	42	1	0.082	0.045
6304C		52	15	1.1	26.5	28	45.5	1	0.11	0.06
6404C		72	19	1.1	26.5	/	65.5	1	0.31	0.17
6805C	25	37	7	0.3	27	27	35	0.3	0.016	0.009
6905C		42	9	0.3	27	28.5	40	0.3	0.032	0.018
16005C		47	8	0.3	27	/	45	0.3	0.045	0.025
6005C		47	12	0.6	29	30	43	0.6	0.061	0.033
6205C		52	15	1	30	32	47	1	0.099	0.054
6305C		62	17	1.1	31.5	36	55.5	1	0.18	0.098
6405C		80	21	1.5	33	/	72	1.5	0.41	0.22
6806C	30	42	7	0.3	32	32	50	1	0.018	0.01
6906C		47	9	0.3	32	34	57	1	0.04	0.022
16006C		55	9	0.3	32	42.5	65.5	1	0.067	0.036
6006C		55	13	1	35	36.5	53	1	0.089	0.048
6206C		62	16	1	35	38.5	60	1	0.15	0.083
6306C		72	19	1.1	36.5	42.5	68.5	1	0.27	0.14
6406C		90	23	1.5	54	/	82	2	0.57	0.31
6807C	35	47	7	0.3	37	37	45	0.3	0.021	0.011
6907C		55	10	0.6	39	39	51	0.6	0.058	0.031
16007C		62	9	0.3	37	/	60	0.3	0.082	0.045
6007C		62	14	1	40	41.5	57	1	0.12	0.063
6207C		72	17	1.1	41.5	44.5	65.5	1	0.22	0.12
6307C		80	21	1.5	43	47	72	1.5	0.36	0.19
6407C		100	25	1.5	43	/	92	1.5	0.73	0.4
6808C	40	52	7	0.3	42	42	50	0.3	0.02	0.013
6908C		62	12	0.6	44	46	58	0.6	0.09	0.05
16008C		68	9	0.3	42	/	66	0.3	0.1	0.05
6008C		68	15	1	45	47.5	63	1	0.15	0.08
6208C		80	18	1.1	46.5	50.5	73.5	1	0.28	0.15
6308C		90	23	1.5	48	53	80	1.5	0.49	0.27
6408C		110	27	2	49	/	101	2	0.946	0.513

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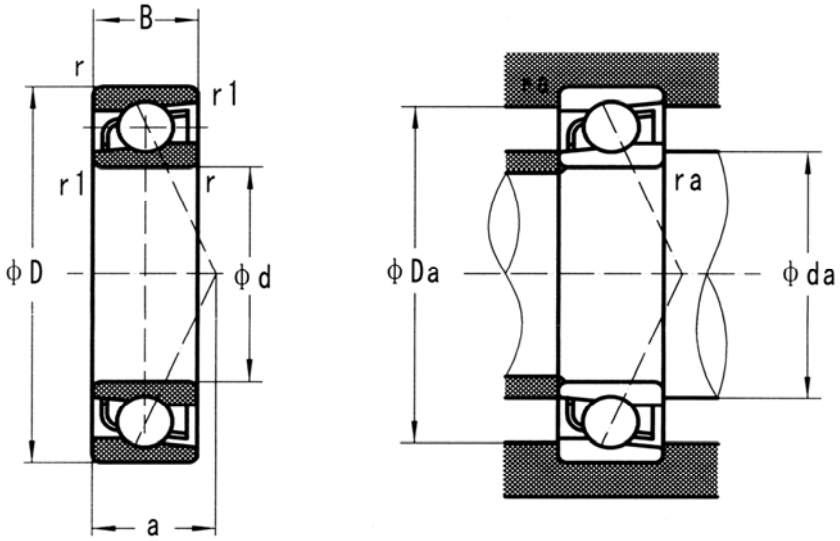
Single-row deep groove hybrid construction ceramic ball bearing

SWS Bearings LTD
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bearing No	Boundary Dimsions（mm）				Mounting dimsions (mm)				mess	
					da	da	Da	ra	（kg）	(refer）
	d	D	B	r（min）	min	max	max	max	ZrO2	Si3N4
6809C	45	58	7	0.3	47	47.5	56	0.3	0.029	0.016
6909C		68	12	0.6	49	50	64	0.6	0.097	0.053
16009C		75	10	0.6	49	/	71	0.6	0.13	0.07
6009C		75	16	1	50	53.5	70	1	0.19	0.1
6209C		85	19	1.1	51.5	55.5	78.5	1	0.32	0.175
6309C		100	25	1.5	53	61.5	92	1.5	0.64	0.345
6409C		120	29	2	54	/	111	2	1.18	0.64
6810C	50	65	7	0.3	52	52.5	63	0.3	0.038	0.021
6910C		72	12	0.6	54	55	68	0.6	0.1	0.06
16010C		80	10	0.6	54	/	76	0.6	0.13	0.07
6010C		80	16	1	55	58.5	75	1	0.2	0.11
6210C		90	20	1.1	56.5	60	83.2	1	0.35	0.19
6310C		110	27	2	59	68	101	2	0.82	0.44
6410C		130	31	2.1	61	/	119	2	1.45	0.78
6811C	55	72	9	0.3	57	59	70	0.3	0.06	0.03
6911C		80	13	1	60	61.5	75	1	0.15	0.08
16011C		90	11	0.6	59	/	86	0.6	0.2	0.11
6011C		90	18	1.1	61.5	64	83.5	1	0.29	0.16
6211C		100	21	1.5	63	66.5	92	1.5	0.48	0.26
6311C		120	29	2	64	72.5	111	2	1.05	0.57
6411C		140	33	2.1	66	/	129	2	1.76	0.95
6812C	60	78	10	0.3	62	64	76	0.3	0.08	0.04
6912C		85	13	1	65	66	80	1	0.15	0.08
16012C		95	11	0.6	64	/	91	0.6	0.22	0.12
6012C		95	18	1.1	66.5	69	88.5	1	0.32	0.17
6212C		110	22	1.5	68	74.5	102	1.5	0.6	0.33
6312C		130	31	2.1	71	79	119	2	1.32	0.72
6412C		150	35	2.1	71		139	2	2.13	1.15
6813C	65	85	10	0.6	69	69	81	0.6	0.1	0.05
6913C		90	13	1	70	71.5	85	1	0.17	0.09
16013C		100	11	0.6	69	/	96	0.6	0.23	0.13
6013C		100	18	1.1	71.5	73	93.5	1	0.34	0.18
6213C		120	23	1.5	73	80	112	1.5	0.77	0.42
6313C		140	33	2.1	76	85.5	129	2	1.62	0.88
6814C	70	90	10	0.6	74	74.5	86	0.6	0.1	0.056
6914C		100	16	1	75	77.5	95	1	0.27	0.15
16014C		110	13	0.6	74	/	106	0.6	0.34	0.18
6014C		110	20	1.1	76.5	80.5	103.5	1	0.47	0.25
6214C		125	24	1.5	78	84	117	1.5	0.84	0.45
6314C		150	35	2.1	81	92	139	2	1.98	1.07
6815C	75	95	10	0.6	79	79.5	91	0.6	0.11	0.06
6915C		105	16	1	80	82	100	1	0.28	0.15
16015C		115	13	0.6	79	/	111	0.6	0.36	0.19
6015C		115	20	1.1	81.5	85.5	108.5	1	0.5	0.27
6215C		130	25	1.5	83	90	122	1.5	0.92	0.5
6816C	80	100	10	0.6	84	84.5	96	0.6	0.12	0.063
6916C		110	16	1	85	87.5	105	1	0.3	0.16
16016C		125	14	0.6	84	/	121	0.6	0.48	0.26
6016C		125	22	1.1	86.5	91	118.5	1	0.67	0.36
6216C		140	26	2	89	95.5	131	2	1.09	0.59

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Hybrid construction ceramic ball bearing



Bearing No	boundary dimensions（mm）					mounting dimensions (mm)			mass	
						da	Da	ra	（kg）	(refer）
	d	D	B	r (min）	r1 (min）	min	max	max	ZrO2	Si3N4
7900C	10	22	6	0.3	0.15	12.5	19.5	0.3	0.007	0.0038
7000C		26	8	0.3	0.15	12.5	23.5	0.3	0.014	0.0075
7200C		30	9	0.6	0.3	15	25	0.6	0.025	0.013
7300C		35	11	0.6	0.3	15	30	0.6	0.04	0.022
7901C	12	24	6	0.3	0.15	14.5	21.5	0.3	0.008	0.0042
7001C		28	8	0.3	0.15	14.5	25.5	0.3	0.017	0.0092
7201C		32	10	0.6	0.3	17	27	0.6	0.028	0.015
7301C		37	12	1	0.6	18	31	1	0.046	0.025
7902C	15	28	7	0.3	0.15	17.5	25.5	0.3	0.012	0.0063
7002C		32	9	0.3	0.15	17.5	29.5	0.3	0.024	0.013
7202C		35	11	0.6	0.3	20	30	0.3	0.035	0.019
7302C		42	13	1	0.6	21	36	1	0.064	0.035
7903C	17	30	7	0.3	0.15	19.5	27.5	0.3	0.013	0.0071
7003C		35	10	0.3	0.15	19.5	32.5	0.3	0.032	0.017
7203C		40	12	0.6	0.3	22	35	0.6	0.052	0.028
7303C		47	14	1	0.6	23	41	1	0.087	0.047
7904C	20	37	9	0.3	0.15	22.5	34.5	0.3	0.028	0.015
7004C		42	12	0.6	0.3	25	37	0.6	0.052	0.028
7204C		47	14	1	0.6	26	41	1	0.082	0.045
7304C		52	15	1.1	0.6	27	45	1	0.11	0.06
7905C	25	42	9	0.3	0.15	27.5	39.5	0.3	0.032	0.018
7005C		47	12	0.6	0.3	30	42	0.6	0.061	0.033
7205C		52	15	1	0.6	31	46	1	0.099	0.054
7305C		62	17	1.1	0.6	32	55	1	0.18	0.098
7906C	30	47	9	0.3	0.15	32.5	44.5	1	0.04	0.022
7006C		55	13	1	0.6	36	49	1	0.089	0.048
7206C		62	16	1	0.6	36	56	1	0.15	0.083
7306C		72	19	1.1	0.6	37	65	1	0.27	0.14
7907C	35	55	10	0.6	0.3	40	50	0.6	0.058	0.031
7007C		62	14	1	0.6	41	56	1	0.12	0.063
7207C		72	17	1.1	0.6	42	65	1	0.22	0.12
7307C		80	21	1.5	1	44	71	1.5	0.36	0.19
7908C	40	62	12	0.6	0.3	45	57	0.6	0.09	0.05
7008C		68	15	1	0.6	46	62	1	0.15	0.08
7208C		80	18	1.1	0.6	47	73	1	0.28	0.15
7308C		90	23	1.5	1	49	81	1.5	0.49	0.27

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Angular contact hybrid construction ceramic ball bearing

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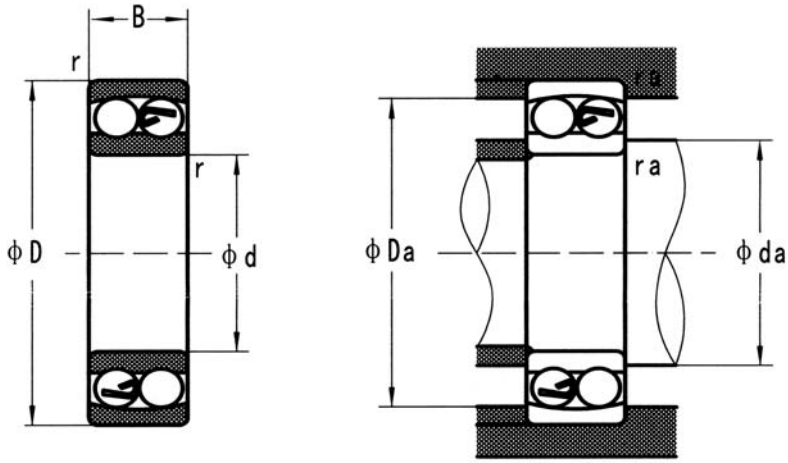
Bearing No	boundary dimensions（mm）					mounting dimensions (mm)			mass	
						da	Da	ra	（kg）	(refer）
	d	D	B	r（min）	r1（min）	min	max	max	ZrO2	Si3N4
7909C	45	68	12	0.6	0.3	50	63	0.6	0.097	0.053
7009C		75	16	1	0.6	51	69	1	0.19	0.1
7209C		85	19	1.1	0.6	52	78	1	0.32	0.175
7309C		100	25	1.5	1	54	91	1.5	0.64	0.345
7910C	50	72	12	0.6	0.3	55	67	0.6	0.1	0.06
7010C		80	16	1	0.6	56	74	1	0.2	0.11
7210C		90	20	1.1	0.6	57	83	1	0.35	0.19
7310C		110	27	2	1	60	100	2	0.82	0.44
7911C	55	80	13	1	0.6	61	74	1	0.15	0.08
7011C		90	18	1.1	0.6	62	83	1	0.29	0.16
7211C		100	21	1.5	1	64	91	1.5	0.48	0.26
7311C		120	29	2	1	65	110	2	1.05	0.57
7912C	60	85	13	1	0.6	66	79	1	0.15	0.08
7012C		95	18	1.1	0.6	67	88	1	0.32	0.17
7212C		110	22	1.5	1	69	101	1.5	0.6	0.33
7312C		130	31	2.1	1.1	72	118	2	1.32	0.72
7913C	65	90	13	1	0.6	71	84	1	0.17	0.09
7013C		100	18	1.1	0.6	72	93	1	0.34	0.18
7213C		120	23	1.5	1	74	111	1.5	0.77	0.42
7313C		140	33	2.1	1.1	77	128	2	1.62	0.88
7914C	70	100	16	1	0.6	76	94	1	0.27	0.15
7014C		110	20	1.1	0.6	77	103	1	0.47	0.25
7214C		125	24	1.5	1	79	116	1.5	0.84	0.45
7314C		150	35	2.1	1.1	82	138	2	1.98	1.07
7915C	75	105	16	1	0.6	81	99	1	0.28	0.15
7015C		115	20	1.1	0.6	82	108	1	0.5	0.27
7215C		130	25	1.5	1	84	121	1.5	0.92	0.5
7916C	80	110	16	1	0.6	86	104	1	0.3	0.16
7016C		125	22	1.1	0.6	87	118	1	0.67	0.36
7216C		140	26	2	1	90	130	2	1.09	0.59
7017C	85	130	22	1.1	0.6	92	123	1	0.71	0.38
7217C		150	28	2	1	95	140	2	1.35	0.73
7918C	90	125	18	1.1	0.6	97	118	1	0.45	0.24
7018C		140	24	1.5	1	99	131	1.5	0.92	0.5
7919C	95	130	18	1.1	0.6	102	123	1	0.46	0.25
7019C		145	24	1.5	1	104	136	1.5	0.95	0.51
7920C	100	140	20	1.1	0.6	107	133	1	0.64	0.35
7020C		150	24	1.5	1	109	141	1.5	0.99	0.54
7921C	105	145	20	1.1	0.6	112	138	1	0.66	0.36
7922C	110	150	20	1.1	0.6	117	143	1	0.69	0.37

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Self-aligning hybrid construction ceramic ball bearing

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Hybrid construction ceramic ball bearing



Bearing No	Boundary dimensions（mm）				Mounting dimensions (mm)			mass	
					da	Da	ra	（kg）	(refer）
	d	D	B	r (min）	min	max	max	ZrO2	Si3N4
135C	5	19	6	0.3	7	17	0.3	0.007	0.004
126C	6	19	6	0.3	8	17	0.3	0.007	0.004
127C	7	22	7	0.3	9	20	0.3	0.011	0.006
108C	8	22	7	0.3	10	20	0.3	0.011	0.006
129C	9	26	8	0.6	13	22	0.6	0.017	0.009
1200C	10	30	9	0.6	14	26	0.6	0.026	0.014
2200C		30	14	0.6	14	26	0.6	0.036	0.019
1300C		25	11	0.6	14	31	0.6	0.045	0.024
2300C		25	17	0.6	14	31	0.6	0.065	0.035
1201C	12	32	10	0.6	16	28	0.6	0.031	0.016
2201C		32	14	0.6	16	28	0.6	0.041	0.022
1301C		37	12	1	17	32	1	0.052	0.027
2301C		37	17	1	17	32	1	0.073	0.039
1202C	15	35	11	0.6	19	31	0.6	0.038	0.02
2202C		35	14	0.6	19	31	0.6	0.046	0.025
1302C		42	13	1	20	37	1	0.072	0.039
2302C		42	17	1	20	37	1	0.088	0.047
1203C	17	40	12	0.6	21	36	0.6	0.056	0.03
2203C		40	16	0.6	21	36	0.6	0.068	0.036
1303C		47	14	1	22	42	1	0.1	0.053
2303C		47	19	1	22	42	1	0.12	0.065
1204C	20	47	14	1	25	42	1	0.09	0.049
2204C		47	18	1	25	42	1	0.11	0.057
1304C		52	15	1.1	26.5	45.5	1	0.13	0.067
1304C		52	21	1.1	26.5	45.5	1	0.16	0.086
1205C	25	52	15	1	30	47	1	0.11	0.058
2205C		52	18	1	30	47	1	0.13	0.067
1305C		62	17	1.1	31.5	55.5	1	0.2	0.11
2305C		62	24	1.1	31.5	55.5	1	0.26	0.14
1206C	30	62	16	1	35	57	1	0.17	0.09
2206C		62	20	1	35	57	1	0.2	0.11
1306C		72	19	1.1	36.5	65.5	1	0.3	0.16
2306C		72	27	1.1	36.5	65.5	1	0.38	0.21
1207C	35	72	17	1.1	41.5	65.5	1	0.25	0.13
2207C		72	23	1.1	41.5	65.5	1	0.31	0.17
1307C		80	21	1.5	43	72	1.5	0.39	0.21
2307C		80	31	1.5	43	72	1.5	0.52	0.28

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Self-aligning hybrid construction ceramic ball bearing

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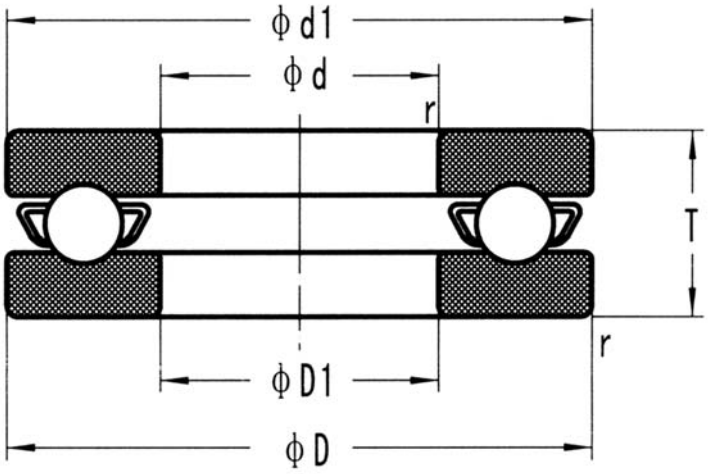
Bearing No	Boundary dimensions（mm）				Mounting dimensions (mm)			mass	
					da	Da	ra	（kg）	(refer）
	d	D	B	r（min）	min	max	max	ZrO2	Si3N4
1208C	40	80	18	1.1	46.5	73.5	1	0.32	0.17
2208C		80	23	1.1	46.5	73.5	1	0.39	0.21
1308C		90	23	1.5	48	82	1.5	0.55	0.29
2308C		90	33	1.5	48	82	1.5	0.71	0.38
1209C	45	85	19	1.1	51.5	78.5	1	0.36	0.19
2209C		85	23	1.1	51.5	78.5	1	0.42	0.22
1309C		100	25	1.5	53	92	1.5	0.74	0.39
2309C		100	36	1.5	53	92	1.5	0.95	0.5
1210C	50	90	20	1.1	56.5	83.5	1	0.4	0.22
2210C		90	23	1.1	56.5	83.5	1	0.45	0.24
1310C		110	27	2	59	101	2	0.93	0.5
2310C		110	40	2	59	101	2	1.26	0.67
1211C	55	100	21	1.5	63	92	1.5	0.54	0.29
2211C		100	25	1.5	63	92	1.5	0.62	0.33
1311C		120	29	2	64	111	2	1.22	0.65
2311C		120	43	2	64	111	2	1.62	0.86
1212C	60	110	22	1.5	68	102	1.5	0.69	0.37
2212C		110	28	1.5	68	102	1.5	0.84	0.45
1312C		130	31	2.1	71	119	2	1.51	0.8
2312C		130	46	2.1	71	119	2	2	1.07
1213C	65	120	23	1.5	73	112	1.5	0.88	0.47
2213C		120	31	1.5	73	112	1.5	1.12	0.6
1313C		140	33	2.1	76	129	2	1.88	1.01
2313C		140	48	2.1	76	129	2	2.48	1.33
1214C	70	125	24	1.5	78	117	1.5	0.97	0.52
2214C		125	31	1.5	78	117	1.5	1.17	0.62
1314C		150	35	2.1	81	139	2	2.3	1.23
2314C		150	51	2.1	81	139	2	3.25	1.74
1215C	75	130	25	1.5	83	122	1.5	1.05	0.56
2215C		130	31	1.5	83	122	1.5	1.25	0.66
1216C	80	140	26	2	89	131	2	1.28	0.69
2216C		140	33	2	89	131	2	1.55	0.82
1217C	85	150	28	2	94	141	2	1.59	0.85
2217C		150	36	2	94	141	2	1.94	1.03

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Single direction thrust hybrid construction ceramic ball bearing

SWS Bearings LTD
High Quality Bearing Manufacturer

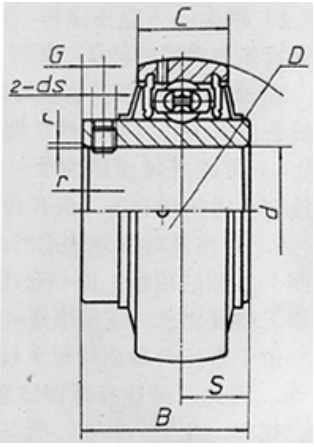
Hybrid construction ceramic ball bearing



Bearing No	Boundary dimensions（mm）				Mounting dimensions (mm)		mass	
					d1	D1	（kg）	(refer）
	d	D	T	r (min）	max	min	ZrO2	Si3N4
51100C	10	24	9	0.3	24	11	0.015	0.0078
51200C		26	11	0.6	26	12	0.022	0.011
51101C	12	26	9	0.3	26	13	0.016	0.009
51201C		28	11	0.6	28	14	0.024	0.013
51102C	15	28	9	0.3	28	16	0.018	0.0094
51202C		32	12	0.6	32	17	0.033	0.018
51103C	17	30	9	0.3	30	18	0.019	0.01
51203C		35	12	0.6	35	19	0.038	0.021
51104C	20	35	10	0.3	35	21	0.028	0.015
51204C		40	14	0.6	40	22	0.059	0.032
51105C	25	42	11	0.6	42	26	0.043	0.023
51205C		47	15	0.6	47	27	0.085	0.046
51106C	30	47	11	0.6	47	32	0.049	0.026
51206C		52	16	0.6	52	32	0.11	0.056
51107C	35	52	12	0.6	52	37	0.062	0.033
51207C		62	18	1	62	37	0.16	0.086
51108C	40	60	13	0.6	60	42	0.092	0.049
51208C		68	19	1	68	42	0.21	0.11
51109C	45	65	14	0.6	65	47	0.11	0.059
51209C		73	20	1	73	47	0.24	0.13
51110C	50	70	14	0.6	70	52	0.12	0.063
51210C		78	22	1	78	52	0.29	0.16
51111C	55	78	16	0.6	78	57	0.17	0.093
51211C		90	25	1	90	57	0.46	0.25
51112C	60	85	17	1	85	62	0.22	0.12
51212C		95	26	1	95	62	0.52	0.28
51113C	65	90	18	1	90	67	0.25	0.13
51213C		100	27	1	100	67	0.58	0.31
51114C	70	95	18	1	95	72	0.27	0.14
51214C		105	27	1	105	72	0.61	0.33
51115C	75	100	19	1	100	77	0.3	0.16
51215C		110	27	1	110	77	0.65	0.35
51116C	80	105	19	1	105	82	0.32	0.17
51216C		115	28	1	115	82	0.72	0.38
51117C	85	110	19	1	110	87	0.34	0.18
51217C		125	31	1	125	88	0.94	0.5
51118C	90	120	22	1	120	92	0.5	0.27
51218C		135	35	1.1	135	93	1.3	0.69
51120C	100	135	25	1	135	102	0.74	0.39
51220C		150	38	1.1	150	103	1.73	0.92

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Hybrid construction ceramic ball bearing



Bearing No	Boundary Dimensions (mm)								Mass (kg) (refer)	
	d	D	B	S	C	r/min	G	ds	ZrO2	Si3N4
UC201C	12	47	31	12.7	17	0.6	4.5	M6 x 1	0.16	0.09
UC202C	15	47	31	12.7	17	0.6	4.5	M6 x 1	0.15	0.08
UC203C	17	47	31	12.7	17	0.6	4.5	M6 x 1	0.14	0.07
UC204C	20	47	31	12.7	17	1	4.5	M6 x 1	0.12	0.07
UC205C	25	52	34.1	14.3	17V	1	5	M6 x 1	0.17	0.09
UC206C	30	62	38.1	15.9	19	1	5	M6 x 1	0.27	0.14
UC207C	35	72	42.9	17.5	20	1.1	6	M8 x 1	0.40	0.21
UC208C	40	80	49.2	19	21	1.1	8	M8 x 1	0.54	0.29
UC209C	45	85	49.2	19	22	1.1	8	M8 x 1	0.57	0.30
UC210C	50	90	51.6	19	24	1.1	9	M10 x 1	0.64	0.34
UC211C	55	100	55.6	22.2	25	1.5	9	M10 x 1	0.89	0.48
UC212C	60	110	65.1	25.4	27	1.5	10	M10 x 1	1.20	0.64
UC213C	65	120	65.1	25.4	27	1.5	10	M10 x 1	1.51	0.80
UC214C	70	125	74.6	30.2	29	1.5	12	M12 x 1.25	1.68	0.89
UC215C	75	130	77.8	33.3	30	1.5	12	M12 x 1.25	1.86	0.99
UC216C	80	140	82.6	33.3	33	2	14	M12 x 1.25	2.17	1.16
UC217C	85	150	85.7	34.1	36	2	14	M12 x 1.25	2.62	1.39
UC218C	90	160	96	39.7	37	2	14	M12 x 1.25	3.31	1.76
UC220C	100	180	108	42	41	2	14	M12 x 1.25	3.46	1.85

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