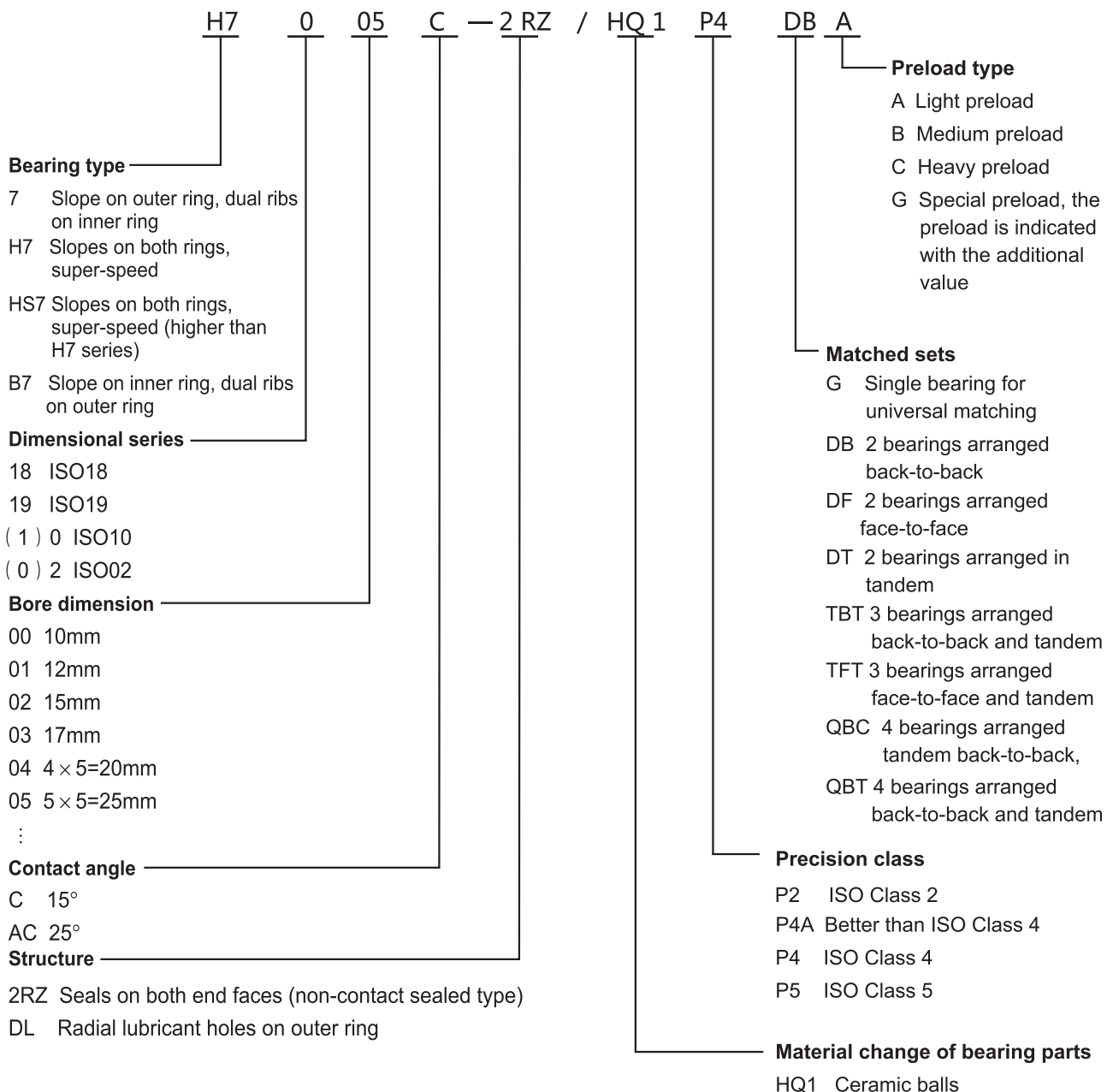


12 Bearing dimensions and technical parameters

Designation of angular contact ball bearings



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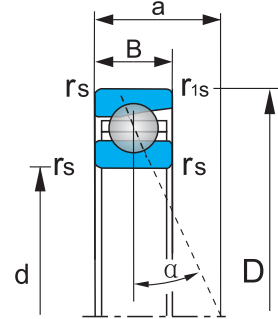
High-speed angular contact ball bearings

70 C

Contact angle $\alpha = 15^\circ$

70 AC

Contact angle $\alpha = 25^\circ$



Bearing designations ZYS	Boundary dimensions						Load rating		Limiting speed		Weight kg ≈
	d	D	B	r _{smin}	r _{1smin}	a	C _r	C _{or}	Grease	Oil	
	mm						≈	KN		r/min	
708 C	8	22	7	0.30	0.15	5.5	3.0	1.6	70000	110000	0.01
708 AC	8	22	7	0.30	0.15	7	2.8	1.5	63000	95000	0.01
7000 C	10	26	8	0.30	0.15	6	4.0	2.4	67000	100000	0.02
7000 AC	10	26	8	0.30	0.15	8	3.8	2.3	60000	90000	0.02
7001 C	12	28	8	0.30	0.15	7	5.0	3.0	60000	90000	0.02
7001 AC	12	28	8	0.30	0.15	9	4.8	2.8	56000	85000	0.02
7002 CTYNSULP4	15	32	9	0.30	0.15	8	5.3	3.3	50000	75000	0.03
7002 AC	15	32	9	0.30	0.15	10	5.1	3.1	45000	67000	0.03
7003 CTYNSULP4	17	35	10	0.30	0.15	8	6.7	4.9	45000	67000	0.04
7003 AC	17	35	10	0.30	0.15	11	6.4	4.7	40000	60000	0.04
7004 CTYNSULP4	20	42	12	0.60	0.15	10	9.6	6.3	38000	56000	0.06
7004 AC	20	42	12	0.60	0.15	13	9.2	6.0	34000	50000	0.06
7005 CTYNSULP4	25	47	12	0.60	0.15	11	12.9	8.7	34000	50000	0.07
7005 AC	25	47	12	0.60	0.15	14	12.3	8.3	30000	45000	0.07
7006 CTYNSULP4	30	55	13	1.00	0.30	12	15.7	11.6	28000	43000	0.11
7006 AC	30	55	13	1.00	0.30	17	14.9	10.9	24000	38000	0.11
7007 CTYNSULP4	35	62	14	1.00	0.30	13	19.3	17.5	20000	34000	0.15
7007 AC	35	62	14	1.00	0.30	18	18.3	16.6	19000	32000	0.15
7008 CTYNSULP4	40	68	15	1.00	0.30	15	19.9	19.1	19000	32000	0.19
7008 AC	40	68	15	1.00	0.30	20	18.9	18.2	17000	28000	0.19
7009 CTYNSULP4	45	75	16	1.00	0.30	16	26.7	25.3	17000	28000	0.23
7009 AC	45	75	16	1.00	0.30	22	25.4	24.1	16000	26000	0.23
7010 CTYNSULP4	50	80	16	1.00	0.30	17	27.6	27.5	16000	26000	0.25
7010 AC	50	80	16	1.00	0.30	23	26.2	26.2	15000	24000	0.25
7011 CTYNSULP4	55	90	18	1.10	0.60	19	36.7	37.1	14000	22000	0.37
7011 AC	55	90	18	1.10	0.60	26	34.8	35.3	13000	20000	0.37
7012 CTYNSULP4	60	95	18	1.10	0.60	19	37.8	40	14000	22000	0.39
7012 AC	60	95	18	1.10	0.60	27	35.8	38	12000	19000	0.39



High-speed angular contact ball bearings

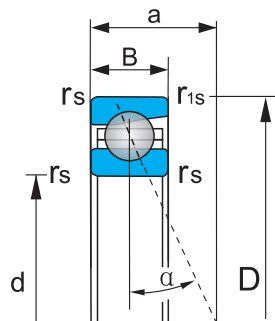
High-speed angular contact ball bearings

70 C

Contact angle $\alpha = 15^\circ$

70 AC

Contact angle $\alpha = 25^\circ$



Bearing designations ZYS	Boundary dimensions						Load rating		Limiting speed		Weight kg ≈
	d	D	B	r _{smin}	r _{1smin}	a	C _r	C _{or}	Grease	Oil	
	mm						≈	KN		r/min	
7013 CTYNSULP4	65	100	18	1.10	0.60	20	38.9	42.9	13000	20000	0.42
7013 AC	65	100	18	1.10	0.60	28	36.8	40.7	11000	18000	0.42
7014 CTYNSULP4	70	110	20	1.10	0.60	22	49.9	55.5	12000	19000	0.59
7014 AC	70	110	20	1.10	0.60	31	47.2	52.7	10000	17000	0.59
7015 CTYNSULP5	75	115	20	1.10	0.60	23	51.3	59.2	11000	18000	0.62
7015 AC	75	115	20	1.10	0.60	32	48.5	56.2	9500	16000	0.62
7016 CTYNSULP5	80	125	22	1.10	0.60	25	61.6	70.4	10000	17000	0.83
7016 AC	80	125	22	1.10	0.60	35	58.3	66.9	9000	15000	0.83
7017 C	85	130	22	1.10	0.60	25	63.3	75	9500	16000	0.87
7017 AC	85	130	22	1.10	0.60	36	59.9	71.3	8500	14000	0.87
7018 C	90	140	24	1.50	0.60	27	66.9	84	9000	15000	1.18
7018 AC	90	140	24	1.50	0.60	39	63.2	79.7	8000	13000	1.18
7019 C	95	145	24	1.50	0.60	28	79.1	97.6	8500	14000	1.20
7019 AC	95	145	24	1.50	0.60	40	74.8	92.7	7500	12000	1.20
7020 C	100	150	24	1.50	0.60	29	81.2	103.3	8000	13000	1.25
7020 AC	100	150	24	1.50	0.60	41	76.7	98	7000	11000	1.25
7021 C	105	160	26	2.00	1.00	31	93.9	118.2	7500	12000	1.58
7021 AC	105	160	26	2.00	1.00	44	88.8	112.2	7000	11000	1.58
7022 C	110	170	28	2.00	1.00	33	110.4	139.8	7000	11000	1.97
7022 AC	110	170	28	2.00	1.00	47	104.4	132.8	6700	10000	1.97
7024 C	120	180	28	2.00	1.00	34	112.7	148.7	7000	11000	2.11
7024 AC	120	180	28	2.00	1.00	49	106.5	141.1	6700	10000	2.11
7026 C	130	200	33	2.00	1.00	39	144.8	190.8	6700	10000	3.18
7026 AC	130	200	33	2.00	1.00	55	136.8	181.0	6000	9000	3.18
7028 C	140	210	33	2.00	1.00	40	148.7	202.6	6000	9000	3.37
7028 AC	140	210	33	2.00	1.00	57	140.4	192.2	5600	8500	3.37
7030 C	150	225	35	2.10	1.10	43	168.4	232.5	5600	8500	4.10
7030 AC	150	225	35	2.10	1.10	61	159.1	220.6	5000	7500	4.10



High-speed angular contact ball bearings

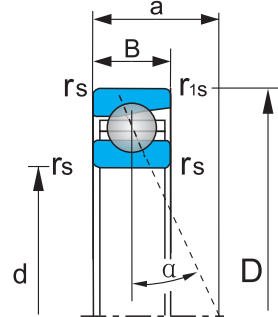
High-speed angular contact ball bearings

72 C

Contact angle $\alpha = 15^\circ$

72 AC

Contact angle $\alpha = 25^\circ$



Bearing designations ZYS	Boundary dimensions						Load rating		Limiting speed		Weight kg ≈
	d	D	B	r _{smin}	r _{1smin}	a	C _r	C _{or}	Grease	Oil	
	mm						≈	KN		r/min	
728 C	8	24	8	0.30	0.15	6	4.5	2.3	67000	100000	0.02
728 AC	8	24	8	0.30	0.15	8	4.4	2.2	60000	90000	0.02
7200 C	10	30	9	0.60	0.15	7	6.5	3.8	56000	85000	0.03
7200 AC	10	30	9	0.60	0.15	9	6.3	3.7	53000	80000	0.03
7201 C	12	32	10	0.60	0.15	8	7.2	4.5	53000	80000	0.04
7201 AC	12	32	10	0.60	0.15	10	6.9	4.3	48000	70000	0.04
7202 CTYNSULP4	15	35	11	0.60	0.15	9	9.1	5.8	48000	70000	0.05
7202 AC	15	35	11	0.60	0.15	11	8.8	5.6	43000	63000	0.05
7203 CTYNSULP4	17	40	12	0.60	0.30	10	11.3	7.4	40000	60000	0.07
7203 AC	17	40	12	0.60	0.30	13	10.9	7.1	38000	56000	0.07
7204 CTYNSULP4	20	47	14	1.00	0.30	12	13.1	9.6	34000	50000	0.11
7204 AC	20	47	14	1.00	0.30	15	12.6	9.2	30000	45000	0.11
7205 CTYNSULP4	25	52	15	1.00	0.30	13	16.8	13.1	30000	45000	0.14
7205 AC	25	52	15	1.00	0.30	16	16.1	12.5	26000	40000	0.14
7206 CTYNSULP4	30	62	16	1.00	0.30	14	23.4	18.8	24000	38000	0.21
7206 AC	30	62	16	1.00	0.30	19	22.3	18.0	20000	34000	0.21
7207 CTYNSULP4	35	72	17	1.10	0.60	16	25.8	22.9	18000	30000	0.31
7207 AC	35	72	17	1.10	0.60	21	24.5	21.9	17000	28000	0.31
7208 CTYNSULP4	40	80	18	1.10	0.60	17	34.1	30.9	17000	28000	0.40
7208 AC	40	80	18	1.10	0.60	23	32.5	29.5	15000	24000	0.40
7209 CTYNSULP4	45	85	19	1.10	0.60	18	35.5	33.8	16000	26000	0.45
7209 AC	45	85	19	1.10	0.60	25	33.8	32.3	14000	22000	0.45
7210 CTYNSULP4	50	90	20	1.10	0.60	19	43.3	40.6	15000	24000	0.49
7210 AC	50	90	20	1.10	0.60	26	41.3	38.7	14000	22000	0.49
7211 CTYNSULP4	55	100	21	1.50	0.60	21	53.6	51.1	14000	22000	0.65
7211 AC	55	100	21	1.50	0.60	29	51.1	48.8	13000	20000	0.65
7212 CTYNSULP4	60	110	22	1.50	0.60	22	55.8	56.2	12000	19000	0.86
7212 AC	60	110	22	1.50	0.60	31	53.0	53.5	11000	18000	0.86



ZYS® | PRECISION ROLLING BEARINGS

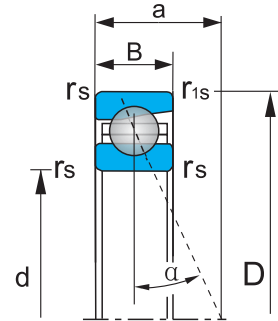
High-speed angular contact ball bearings

72 C

Contact angle $\alpha = 15^\circ$

72 AC

Contact angle $\alpha = 25^\circ$



Bearing designations ZYS	Boundary dimensions						Load rating		Limiting speed		Weight kg ≈
	d	D	B	r _{smin}	r _{1smin}	a	C _r	C _{or}	Grease	Oil	
	mm					≈	KN		r/min		
7213 CTYNSULP4	65	120	23	1.50	0.60	24	67.5	69.0	11000	18000	1.08
7213 AC	65	120	23	1.50	0.60	33	64.2	65.8	9500	16000	1.08
7214 CTYNSULP4	70	125	24	1.50	0.60	25	70.2	74.6	10000	17000	1.19
7214 AC	70	125	24	1.50	0.60	35	66.6	71.1	9000	15000	1.19
7215 CTYNSULP4	75	130	25	1.50	0.60	26	72.7	80.2	9500	16000	1.29
7215 AC	75	130	25	1.50	0.60	36	68.9	76.3	8500	14000	1.29
7216 C	80	140	26	2.00	1.00	28	86.5	96.5	9000	15000	1.58
7216 AC	80	140	26	2.00	1.00	39	82.1	91.9	8000	13000	1.58
7217 CTYNSULP5	85	150	28	2.00	1.00	30	97.4	107.5	8500	14000	1.96
7217 AC	85	150	28	2.00	1.00	42	92.5	102.4	7500	12000	1.96
7218 C	90	160	30	2.00	1.00	32	121.9	131.3	8000	13000	2.44
7218 AC	90	160	30	2.00	1.00	44	115.8	124.6	7000	11000	2.44
7219 C	95	170	32	2.10	1.10	34	128.9	145.1	7500	12000	2.93
7219 AC	95	170	32	2.10	1.10	47	122.5	138.3	6700	10000	2.93
7220 C	100	180	34	2.10	1.10	36	146.2	165.9	7000	11000	3.51
7220 AC	100	180	34	2.10	1.10	50	138.9	158.2	6700	10000	3.51
7221 C	105	190	36	2.10	1.10	38	164.3	188.2	7000	11000	4.17
7221 AC	105	190	36	2.10	1.10	52	156.3	179.5	6300	9500	4.17
7222 C	110	200	38	2.10	1.10	40	170.4	202.5	6700	10000	4.95
7222 AC	110	200	38	2.10	1.10	55	161.8	193.0	6000	9000	4.95
7224 C	120	215	40	2.10	1.10	42	175.4	218.4	6000	9000	6.01
7224 AC	120	215	40	2.10	1.10	59	166.3	207.9	5300	8000	6.01
7226 C	130	230	40	3.00	1.10	44	200.6	258.3	5600	8500	6.41
7226 AC	130	230	40	3.00	1.10	62	190.4	246.2	5000	7500	6.41
7228 C	140	250	42	3.00	1.10	47	223.6	306.6	5000	7500	8.17
7228 AC	140	250	42	3.00	1.10	66	212.3	292.2	4500	6700	8.17
7230 C	150	270	45	3.00	1.10	51	240.9	341.5	4500	6700	10.38
7230 AC	150	270	45	3.00	1.10	71	228.7	325.5	4000	6000	10.38

