



ZYS
轴研科技

高速精密角接触球轴承

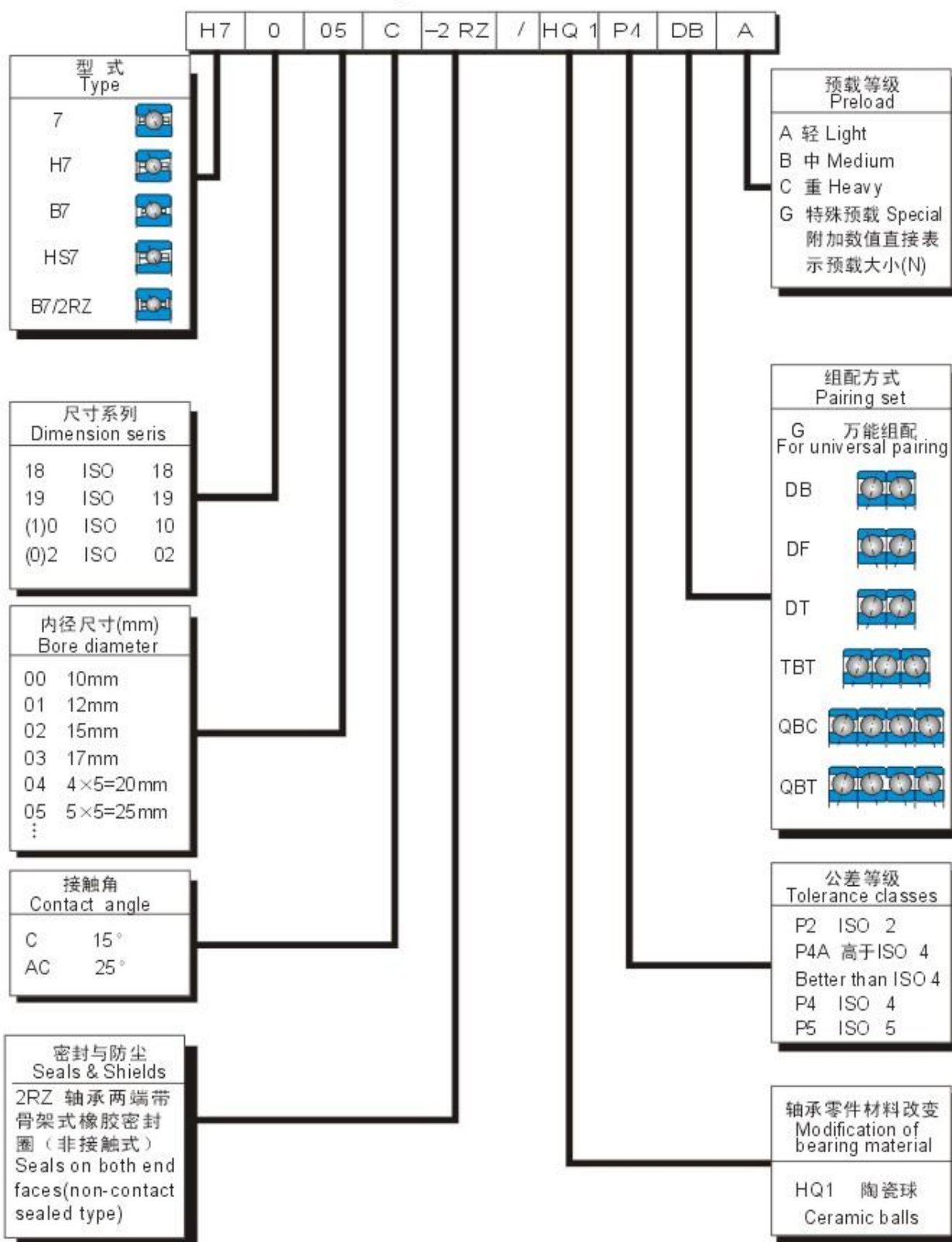
High-speed precision angular contact ball bearings

洛阳轴研科技股份有限公司

LUOYANG BEARING SCIENCE & TECHNOLOGY CO.,LTD.

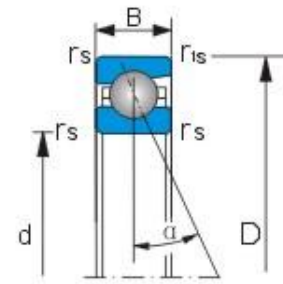


轴承代号标识 Bearing identification code



系列
Series

718 719
70 72



外形尺寸 Boundary dimensions					$\alpha = 15^\circ$				$\alpha = 25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	$r_{1\text{mm}}$	$r_{1\text{mm}}$	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
10	19	5	0.30	0.10	1.8	1.1	75000	120000	1.7	1.1	70000	110000	71800
	22	6	0.30	0.10	2.9	1.8	70000	110000	2.7	1.7	67000	100000	71900
	26	8	0.30	0.15	4.0	2.4	67000	100000	3.8	2.3	60000	90000	7000
	30	9	0.60	0.15	6.4	3.8	56000	85000	6.3	3.7	53000	80000	7200
12	21	5	0.30	0.10	2.0	1.4	70000	110000	1.9	1.3	63000	95000	71801
	24	6	0.30	0.10	3.2	2.2	63000	95000	3.1	2.1	56000	85000	71901
	28	8	0.30	0.15	5.0	3.0	60000	90000	4.8	2.8	56000	85000	7001
	32	10	0.60	0.15	7.2	4.5	53000	80000	6.9	4.3	48000	70000	7201
15	24	5	0.30	0.10	2.2	1.8	60000	90000	2.1	1.7	53000	80000	71802
	28	7	0.30	0.10	4.8	3.4	53000	80000	4.6	3.2	50000	75000	71902
	32	9	0.30	0.15	5.3	3.3	50000	75000	5.1	3.1	45000	67000	7002
	35	11	0.60	0.15	9.1	5.8	48000	70000	8.8	5.6	43000	63000	7202
17	26	5	0.30	0.10	2.3	1.9	53000	80000	2.1	1.8	50000	75000	71803
	30	7	0.30	0.10	5.1	3.8	50000	75000	4.8	3.6	45000	67000	71903
	35	10	0.30	0.15	6.7	4.9	45000	67000	6.4	4.7	40000	60000	7003
	40	12	0.60	0.30	11.3	7.4	40000	60000	10.9	7.1	38000	56000	7203
20	32	7	0.30	0.10	3.9	3.4	45000	67000	3.7	3.2	40000	60000	71804
	37	9	0.30	0.15	7.4	5.8	40000	60000	7.0	5.6	38000	56000	71904
	42	12	0.60	0.15	9.6	6.3	38000	56000	9.2	6.0	34000	50000	7004
	47	14	1.00	0.30	13.1	9.6	34000	50000	12.6	9.2	30000	45000	7204
25	37	7	0.30	0.15	4.2	4.1	38000	56000	3.9	3.9	34000	50000	71805
	42	9	0.30	0.15	7.6	6.5	34000	50000	7.2	6.2	30000	45000	71905
	47	12	0.60	0.15	12.9	8.7	34000	50000	12.3	8.3	30000	45000	7005
	52	15	1.00	0.30	16.8	13.1	30000	45000	16.1	12.5	26000	40000	7205
30	42	7	0.30	0.15	4.4	4.8	32000	48000	4.1	4.5	28000	43000	71806
	47	9	0.30	0.15	8.0	7.6	30000	45000	7.6	7.2	26000	40000	71906
	55	13	1.00	0.30	15.7	11.6	28000	43000	14.9	10.9	24000	38000	7006
	62	16	1.00	0.30	23.4	18.8	24000	38000	22.3	18.0	20000	34000	7206
35	47	7	0.30	0.15	4.6	5.5	26000	40000	4.3	5.2	24000	38000	71807
	55	10	0.60	0.15	11	10.9	26000	40000	10.4	10.3	20000	34000	71907
	62	14	1.00	0.30	19.3	17.5	20000	34000	18.3	16.6	19000	32000	7007
	72	17	1.10	0.60	25.8	22.9	18000	30000	24.5	21.9	17000	28000	7207

ZYS 高速精密角接触球轴承

ZYS High-speed precision angular contact ball bearings

外形尺寸 Boundary dimensions					$\alpha=15^\circ$				$\alpha=25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{smh}	r_{smH}	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
40	52	7	0.30	0.15	4.8	6.2	24000	38000	4.5	5.8	20000	34000	71808
	62	12	0.60	0.15	14	14.2	20000	34000	13.3	13.5	18000	30000	71908
	68	15	1.00	0.30	19.9	19.1	19000	32000	18.9	18.2	17000	28000	7008
	80	18	1.10	0.60	34.1	30.9	17000	28000	32.5	29.5	15000	24000	7208
45	58	7	0.30	0.15	4.9	6.7	20000	34000	4.6	6.3	18000	30000	71809
	68	12	0.60	0.15	14.7	16.1	18000	30000	13.9	15.2	17000	28000	71909
	75	16	1.00	0.30	26.7	25.3	17000	28000	25.4	24.1	16000	26000	7009
	85	19	1.10	0.60	35.5	33.8	16000	26000	33.8	32.3	14000	22000	7209
50	65	7	0.30	0.15	7.4	10.0	18000	30000	6.9	9.5	16000	26000	71810
	72	12	0.60	0.15	19	21.2	17000	28000	17.9	20.1	15000	24000	71910
	80	16	1.00	0.30	27.6	27.5	16000	26000	26.2	26.2	15000	24000	7010
	90	20	1.10	0.60	43.3	40.6	15000	24000	41.3	38.7	14000	22000	7210
55	72	9	0.30	0.15	10.2	13.8	16000	26000	9.6	13.1	15000	24000	71811
	80	13	1.00	0.30	23.7	27.4	15000	24000	22.4	26	14000	22000	71911
	90	18	1.10	0.60	36.7	37.1	14000	22000	34.8	35.3	13000	20000	7011
	100	21	1.50	0.60	53.6	51.1	14000	22000	51.1	48.8	13000	20000	7211
60	78	10	0.30	0.15	13.4	18.0	15000	24000	12.6	17.0	14000	22000	71812
	85	13	1.00	0.30	24.8	30.3	14000	22000	23.3	28.7	13000	20000	71912
	95	18	1.10	0.60	37.8	40	14000	22000	35.8	38	12000	19000	7012
	110	22	1.50	0.60	55.8	56.2	12000	19000	53.0	53.5	11000	18000	7212
65	85	10	0.60	0.15	13.4	18.8	14000	22000	12.6	17.8	13000	20000	71813
	90	13	1.00	0.30	25.1	31.9	13000	20000	23.6	30.2	12000	19000	71913
	100	18	1.10	0.60	38.9	42.9	13000	20000	36.8	40.7	11000	18000	7013
	120	23	1.50	0.60	67.5	69.0	11000	18000	64.2	65.8	9500	16000	7213
70	90	10	0.60	0.15	13.8	20.3	13000	20000	13.0	19.1	12000	19000	71814
	100	16	1.00	0.30	34.5	43.4	12000	19000	32.6	41.2	11000	18000	71914
	110	20	1.10	0.60	49.9	55.5	12000	19000	47.2	52.7	10000	17000	7014
	125	24	1.50	0.60	70.2	74.6	10000	17000	66.6	71.1	9000	15000	7214
75	95	10	0.60	0.15	14.2	21.7	12000	19000	13.3	20.5	11000	18000	71815
	105	16	1.00	0.30	25	45.6	11000	18000	33	43.2	9500	16000	71915
	115	20	1.10	0.60	51.3	59.2	11000	18000	48.5	56.2	9500	16000	7015
	130	25	1.50	0.60	72.7	80.2	9500	16000	68.9	76.3	8500	14000	7215
80	100	10	0.60	0.15	14.5	23.1	11000	18000	13.6	21.8	9500	16000	71816
	110	16	1.00	0.30	35.5	47.8	10000	17000	33.5	45.3	9000	15000	71916
	125	22	1.10	0.60	61.6	70.4	10000	17000	58.3	66.9	9000	15000	7016
	140	26	2.00	1.00	86.5	96.5	9000	15000	82.1	91.9	8000	13000	7216
85	110	13	1.00	0.30	21.5	32.2	10000	17000	20.2	30.5	9000	15000	71817
	120	18	1.10	0.60	46.5	61.9	9500	16000	43.8	58.6	8500	14000	71917
	130	22	1.10	0.60	63.3	75	9500	16000	59.9	71.3	8500	14000	7017
	150	28	2.00	1.00	97.4	107.5	8500	14000	92.5	102.4	7500	12000	7217

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外形尺寸 Boundary dimensions					$\alpha=15^\circ$				$\alpha=25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	$r_{1\text{mm}}$	$r_{2\text{mm}}$	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
90	115	13	1.00	0.30	21.7	33.5	9500	16000	20.4	31.6	8500	14000	71818
	125	18	1.10	0.60	47.2	64.8	9000	15000	44.5	61.4	8000	13000	71918
	140	24	1.50	0.60	66.9	84	9000	15000	63.2	79.7	8000	13000	7018
	160	30	2.00	1.00	121.9	131.3	8000	13000	115.8	124.6	7000	11000	7218
95	120	13	1.00	0.30	21.9	34.7	9000	15000	20.6	32.8	8500	14000	71819
	130	18	1.10	0.60	47.9	67.8	9000	15000	45.2	64.1	8000	13000	71919
	145	24	1.50	0.60	79.1	97.6	8500	14000	74.8	92.7	7500	12000	7019
	170	32	2.10	1.10	128.9	145.1	7500	12000	122.5	138.3	6700	10000	7219
100	125	13	1.00	0.30	22.5	37.0	8500	14000	21.2	34.9	8000	13000	71820
	140	20	1.10	0.60	60.4	84.4	8500	14000	56.9	79.9	8000	13000	71920
	150	24	1.50	0.60	81.2	103.3	8000	13000	76.7	98	7000	11000	7020
	180	34	2.10	1.10	146.2	165.9	7000	11000	138.9	158.2	6700	10000	7220
105	130	13	1.00	0.30	22.7	38.3	8500	14000	21.3	36.1	8000	13000	71821
	145	20	1.10	0.60	61.4	88.2	8000	13000	57.8	83.5	7500	12000	71921
	160	26	2.00	1.00	93.9	118.2	7500	12000	88.8	112.2	7000	11000	7021
	190	36	2.10	1.10	164.3	188.2	7000	11000	156.3	179.5	6300	9500	7221
110	140	16	1.00	0.30	31.8	51.6	8000	13000	29.9	48.7	7500	12000	71822
	150	20	1.10	0.60	62.3	91.9	7500	12000	58.7	87	7000	11000	71922
	170	28	2.00	1.00	110.4	139.8	7000	11000	104.4	132.8	6700	10000	7022
	200	38	2.10	1.10	170.4	202.5	6700	10000	161.8	193.0	6000	9000	7222
120	150	16	1.00	0.30	33.1	56.9	7000	11000	31.1	53.7	6700	10000	71824
	165	22	1.10	0.60	73.7	107.6	7000	11000	69.5	101.9	6700	10000	71924
	180	28	2.00	1.00	112.7	148.7	7000	11000	106.5	141.1	6700	10000	7024
	215	40	2.10	1.10	175.4	218.4	6000	9000	166.3	207.9	5300	8000	7224
130	165	18	1.10	0.60	38.7	67.6	6700	10000	36.3	63.8	6000	9000	71826
	180	24	1.50	0.60	76.3	117.1	6700	10000	71.9	110.9	6000	9000	71926
	200	33	2.00	1.00	144.8	190.8	6700	10000	136.8	181.0	6000	9000	7026
	230	40	3.00	1.10	200.6	258.3	5600	8500	190.4	246.2	5000	7500	7226
140	175	18	1.10	0.60	44.8	79.2	6000	9000	42.0	74.7	5600	8500	71828
	190	24	1.50	0.60	78.9	126.4	6000	9000	74.4	119.7	5600	8500	71928
	210	33	2.00	1.00	148.7	202.6	6000	9000	140.4	192.2	5600	8500	7028
	250	42	3.00	1.10	223.6	306.6	5000	7500	212.3	292.2	4500	6700	7228
150	190	20	1.10	0.60	51.2	92.0	5600	8500	48.0	86.8	5000	7500	71830
	210	28	2.00	1.00	118.2	175.1	5600	8500	111.4	165.8	5000	7500	71930
	225	35	2.10	1.10	168.4	232.5	5600	8500	159.1	220.6	5000	7500	7030
	270	45	3.00	1.10	240.9	341.5	4500	6700	228.7	325.5	4000	6000	7230
160	200	20	1.10	0.60	52.4	97.7	5000	7500	49.2	92.2	4800	7000	71832
	220	28	2.00	1.00	123.6	191.2	5000	7500	116.5	181.1	4800	7000	71932
	240	38	2.10	1.10	189.1	264.5	5000	7500	178.6	251.0	4800	7000	7032
	290	48	3.00	1.10	248.6	365.8	4300	6300	236.1	348.6	3800	5600	7232

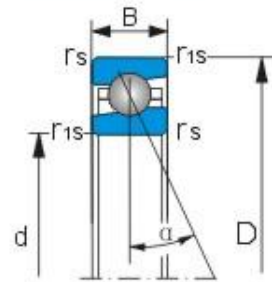
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外形尺寸 Boundary dimensions					$\alpha = 15^\circ$				$\alpha = 25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{sm1a}	r_{sm2a}	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
170	215	22	1.10	0.60	66.5	123.4	4800	7000	62.4	116.5	4300	6300	71834
	230	28	2.00	1.00	125.7	200.0	4800	7000	118.5	189.4	4300	6300	71934
	260	42	2.10	1.10	205.6	299.3	4800	7000	194.2	284.0	4300	6300	7034
	310	52	4.00	1.50	300.2	459.2	3800	5600	285.0	437.6	3600	5300	7234
180	225	22	1.1	0.6	71.0	127.8	4500	6700	67.0	120.5	4000	6000	71836
	250	33	2.00	1.00	159.7	249.1	4500	6700	150.6	235.9	4000	6000	71936
	280	46	2.10	1.10	229.5	352.1	4500	6700	216.8	334.1	4000	6000	7036
	320	52	4.00	1.50	311.2	490.8	3800	5600	295.5	467.7	3400	5000	7236
190	240	24	1.5	0.6	80.0	130.7	4300	6300	75.0	123.3	3800	5600	71838
	260	33	2.00	1.00	162.8	260.8	4300	6300	153.5	247.0	3800	5600	71938
	290	46	2.10	1.10	235.1	370.8	4300	6300	222.1	351.8	3800	5600	7038
	340	55	4.00	1.50	321.3	524.8	3400	5000	305.1	500.1	3200	4800	7238
200	250	24	1.5	0.6	81.5	139.2	4000	6000	76.5	131.1	3600	5300	71840
	280	38	2.10	1.00	198.4	311.4	3800	5600	187.1	294.9	3600	5300	71940
	310	51	2.10	1.10	289.1	471.4	3800	5600	273.1	447.3	3600	5300	7040
	360	58	4.00	1.50	330.9	558.6	3200	4800	314.2	532.3	3000	4500	7240
220	270	24	1.5	0.6	83.0	148.0	3800	5600	78.0	139.4	3400	5000	71844
	300	38	2.00	1.00	206.6	341.1	3600	5300	194.8	323.0	3200	4800	71944
	340	56	3.00	1.10	325.3	559.4	3600	5300	307.3	530.8	3200	4800	7044
	400	65	4.00	1.50	405.9	730.5	2800	4300	385.4	696.2	2600	4000	7244
240	300	28	2.0	1.0	106.0	184.5	3400	5000	98.0	174.0	3000	4500	71848
	320	38	2.10	1.00	219.2	384.2	3200	4800	206.7	363.8	3000	4500	71948
	360	56	3.00	1.10	344.2	623.6	3200	4800	325.1	591.7	3000	4500	7048
260	320	28	2.0	1.1	107.0	191.9	3200	4800	100.0	180.5	3000	4500	71852
	360	46	2.10	1.00	284.6	528.8	3000	4500	268.3	500.8	2600	4000	71952
280	350	33	2.0	1.1	132.0	235.6	3000	4500	124.0	222.3	2600	4000	71856
	380	46	2.10	1.00	288.7	554.6	2600	4000	272.2	525.5	2200	3600	71956
300	380	38	2.1	1.1	171	300.2	2600	4000	161	285.0	2400	3800	71860
	420	56	3.0	1.1	360	570	2400	3800	340	540	2200	3600	71960
320	400	38	2.1	1.1	175	321.1	2400	3800	165	302.1	2200	3600	71864
	440	56	3.0	1.1	375	620	2200	3600	355	585	2000	3400	71964
340	420	38	2.1	1.1	179	340.1	2200	3600	169	321.1	2000	3400	71868
	460	56	3.0	1.1	380	640	2200	3600	360	610	1900	3200	71968
360	440	38	2.1	1.1	183	359.1	2000	3400	173	338.2	1800	3000	71872
	480	56	3.0	1.1	390	695	2000	3400	375	640	1800	3000	71972
380	520	65	4.0	1.5	460	810	1900	3200	430	770	1700	2800	71976
400	540	65	4.0	1.5	470	850	1800	3000	440	800	1600	2600	71980
420	560	65	4.0	1.5	480	890	1700	2800	450	840	1500	2400	71984
440	600	74	4.0	1.5	500	950	1600	2600	470	900	1500	2400	71988
460	620	74	4.0	1.5	510	1080	1500	2400	490	1000	1400	2200	71992

系列
Series

H719 H719/HQ1
H70 H70/HQ1



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					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{1m}	r_{2m}	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
10	22	6	0.30	0.10	2.1	0.9	85000	140000	2.0	0.9	75000	120000	H71900
	22	6	0.30	0.10	2.1	0.9	95000	160000	2.0	0.9	85000	140000	H71900/HQ1
	26	8	0.30	0.15	3.4	1.5	80000	130000	3.3	1.4	67000	110000	H7000
	26	8	0.30	0.15	3.4	1.5	90000	150000	3.3	1.4	80000	130000	H7000/HQ1
12	24	6	0.30	0.10	2.2	1.1	80000	130000	2.1	1.1	70000	110000	H71901
	24	6	0.30	0.10	2.2	1.1	90000	150000	2.1	1.1	80000	130000	H71901/HQ1
	28	8	0.30	0.15	3.8	1.7	70000	110000	3.6	1.6	60000	90000	H7001
	28	8	0.30	0.15	3.8	1.7	80000	130000	3.6	1.6	70000	110000	H7001/HQ1
15	28	7	0.30	0.10	3.2	1.7	70000	110000	3.1	1.6	60000	90000	H71902
	28	7	0.30	0.10	3.2	1.7	80000	130000	3.1	1.6	70000	110000	H71902/HQ1
	32	9	0.30	0.15	4.4	2.2	67000	100000	4.2	2.1	56000	85000	H7002
	32	9	0.30	0.15	4.4	2.2	75000	120000	4.2	2.1	67000	100000	H7002/HQ1
17	30	7	0.30	0.10	3.3	1.8	67000	100000	3.2	1.7	56000	85000	H71903
	30	7	0.30	0.10	3.3	1.8	75000	120000	3.2	1.7	63000	95000	H71903/HQ1
	35	10	0.30	0.15	5.2	2.5	56000	85000	5.0	2.4	50000	75000	H7003
	35	10	0.30	0.15	5.2	2.5	63000	95000	5.0	2.4	60000	90000	H7003/HQ1
20	37	9	0.30	0.15	5.0	2.9	53000	80000	4.8	2.7	45000	67000	H71904
	37	9	0.30	0.15	5.0	2.9	63000	95000	4.8	2.7	53000	80000	H71904/HQ1
	42	12	0.60	0.15	7.4	3.9	50000	75000	7.0	3.8	43000	63000	H7004
	42	12	0.60	0.15	7.4	3.9	60000	90000	7.0	3.8	48000	70000	H7004/HQ1
25	42	9	0.30	0.15	5.2	3.4	48000	70000	4.9	3.3	40000	60000	H71905
	42	9	0.30	0.15	5.2	3.4	53000	80000	4.9	3.3	45000	67000	H71905/HQ1
	47	12	0.60	0.15	8.4	4.8	43000	63000	8.0	4.6	36000	53000	H7005
	47	12	0.60	0.15	8.4	4.8	48000	70000	8.0	4.6	43000	63000	H7005/HQ1
30	47	9	0.30	0.15	5.8	3.8	43000	63000	5.4	3.6	36000	53000	H71906
	47	9	0.30	0.15	5.8	3.8	48000	70000	5.4	3.6	40000	60000	H71906/HQ1
	55	13	1.00	0.30	9.5	6.2	38000	56000	9.0	5.9	34000	50000	H7006
	55	13	1.00	0.30	9.5	6.2	45000	67000	9.0	5.9	38000	56000	H7006/HQ1
35	55	10	0.60	0.15	7.7	5.4	36000	53000	7.4	5.1	30000	45000	H71907
	55	10	0.60	0.15	7.7	5.4	40000	60000	7.4	5.1	34000	50000	H71907/HQ1
	62	14	1.00	0.30	11.2	7.9	34000	50000	10.7	7.5	30000	45000	H7007
	62	14	1.00	0.30	11.2	7.9	38000	56000	10.7	7.5	34000	50000	H7007/HQ1

ZYS 高速精密角接触球轴承

ZYS High-speed precision angular contact ball bearings

外形尺寸 Boundary dimensions					$\alpha = 15^\circ$				$\alpha = 25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{sm}	r_{am}	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
40	62	12	0.60	0.15	9.8	7.0	30000	45000	9.3	6.6	26000	40000	H71908
	62	12	0.60	0.15	9.8	7.0	34000	50000	9.3	6.6	28000	43000	H71908/HQ1
	68	15	1.00	0.30	12.5	9.1	28000	43000	11.1	8.6	24000	38000	H7008
	68	15	1.00	0.30	12.5	9.1	34000	50000	11.1	8.6	28000	43000	H7008/HQ1
45	68	12	0.60	0.15	10.3	7.7	26000	40000	9.7	7.3	22000	36000	H71909
	68	12	0.60	0.15	10.3	7.7	28000	43000	9.7	7.3	26000	40000	H71909/HQ1
	75	16	1.00	0.30	13.1	10.2	24000	38000	12.5	9.7	22000	36000	H7009
	75	16	1.00	0.30	13.1	10.2	28000	43000	12.5	9.7	26000	40000	H7009/HQ1
50	72	12	0.60	0.15	13.2	10.0	22000	36000	12.5	9.5	19000	32000	H71910
	72	12	0.60	0.15	13.2	10.0	26000	40000	12.5	9.5	22000	36000	H71910/HQ1
	80	16	1.00	0.30	15.4	12.0	20000	34000	14.7	11.4	18000	30000	H7010
	80	16	1.00	0.30	15.4	12.0	24000	38000	14.7	11.4	20000	34000	H7010/HQ1
55	80	13	1.00	0.30	16.0	12.6	19000	32000	15.0	11.9	16000	26000	H71911
	80	13	1.00	0.30	16.0	12.6	22000	36000	15.0	11.9	19000	32000	H71911/HQ1
	90	18	1.10	0.60	17.0	14.5	19000	32000	16.0	13.7	17000	28000	H7011
	90	18	1.00	0.30	17.0	14.5	22000	36000	16.0	13.7	19000	32000	H7011/HQ1
60	85	13	1.00	0.30	16.6	13.8	18000	30000	15.7	13.1	15000	24000	H71912
	85	13	1.00	0.30	16.6	13.8	20000	34000	15.7	13.1	18000	30000	H71912/HQ1
	95	18	1.10	0.60	17.0	15.3	18000	30000	16.2	14.4	15000	24000	H7012
	95	18	1.10	0.60	17.0	15.3	20000	34000	16.2	14.4	18000	30000	H7012/HQ1
65	90	13	1.00	0.30	16.8	14.5	17000	28000	16.0	13.7	15000	24000	H71913
	90	13	1.00	0.30	16.8	14.5	19000	32000	16.0	13.7	17000	28000	H71913/HQ1
	100	18	1.10	0.60	20.2	18.6	16000	26000	19.0	17.6	13000	20000	H7013
	100	18	1.10	0.60	20.2	18.6	19000	32000	19.0	17.6	15000	24000	H7013/HQ1
70	100	16	1.00	0.30	20.9	17.8	16000	26000	19.7	16.9	13000	20000	H71914
	100	16	1.00	0.30	20.9	17.8	18000	30000	19.7	16.9	15000	24000	H71914/HQ1
	110	20	1.10	0.60	24.1	21.4	15000	24000	22.6	20.1	13000	20000	H7014
	110	20	1.10	0.60	24.1	21.4	18000	30000	22.6	20.1	15000	24000	H7014/HQ1
75	105	16	1.00	0.30	21.7	19.3	15000	24000	20.5	18.2	13000	20000	H71915
	105	16	1.00	0.30	21.7	19.3	17000	28000	20.5	18.2	15000	24000	H71915/HQ1
	115	20	1.10	0.60	26.2	25.5	14000	22000	24.7	24.2	12000	19000	H7015
	115	20	1.10	0.60	26.2	25.5	16000	26000	24.7	24.2	14000	22000	H7015/HQ1
80	110	16	1.00	0.30	22.4	20.8	14000	22000	21.2	19.6	12000	19000	H71916
	110	16	1.00	0.30	22.4	20.8	16000	26000	21.2	19.6	14000	22000	H71916/HQ1
	125	22	1.10	0.60	34.2	32.7	13000	20000	32.3	31.0	11000	18000	H7016
	125	22	1.10	0.60	34.2	32.7	15000	24000	32.3	31.0	13000	20000	H7016/HQ1
85	120	18	1.10	0.60	26.1	24.2	13000	20000	24.7	22.9	11000	18000	H71917
	120	18	1.00	0.30	26.1	24.2	15000	24000	24.7	22.9	13000	20000	H71917/HQ1
	130	22	1.10	0.60	35.0	35.2	12000	19000	33.0	33.4	10000	17000	H7017
	130	22	1.10	0.60	35.0	35.2	14000	22000	33.0	33.4	12000	19000	H7017/HQ1

外形尺寸 Boundary dimensions					$\alpha = 15^\circ$				$\alpha = 25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{sm}/k	r_{1am}/k	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
90	125	18	1.10	0.60	27.0	26.0	13000	20000	25.5	24.6	11000	18000	H71918
	125	18	1.10	0.60	27.0	26.0	15000	24000	25.5	24.6	13000	20000	H71918/HQ1
	140	24	1.50	0.60	36.4	38.1	11000	18000	34.3	36.1	9500	16000	H7018
	140	24	1.50	0.60	36.4	38.1	13000	20000	34.3	36.1	11000	18000	H7018/HQ1
95	130	18	1.10	0.60	27.3	26.9	12000	19000	25.8	25.4	11000	18000	H71919
	130	18	1.10	0.60	27.3	26.9	14000	22000	25.8	25.4	13000	20000	H71919/HQ1
	145	24	1.50	0.60	44.4	45.2	10000	17000	41.9	42.9	8500	14000	H7019
	145	24	1.50	0.60	44.4	45.2	12000	19000	41.9	42.9	10000	17000	H7019/HQ1
100	140	20	1.10	0.60	40.1	37.6	11000	18000	37.9	35.5	9000	15000	H71920
	140	20	1.10	0.60	40.1	37.6	13000	20000	37.9	35.5	11000	18000	H71920/HQ1
	150	24	1.50	0.60	45.4	48.1	10000	17000	42.7	44.7	8500	14000	H7020
	150	24	1.50	0.60	45.4	48.1	12000	19000	42.7	44.7	10000	17000	H7020/HQ1
105	145	20	1.10	0.60	40.7	39.1	10000	17000	38.4	36.9	8500	14000	H71921
	145	20	1.10	0.60	40.7	39.1	12000	19000	38.4	36.9	10000	17000	H71921/HQ1
	160	26	2.00	1.00	46.1	49.2	9500	16000	43.3	46.6	8000	13000	H7021
	160	26	2.00	1.00	46.1	49.2	11000	18000	43.3	46.6	9000	15000	H7021/HQ1
110	150	20	1.10	0.60	41.3	40.5	9000	15000	39.0	38.3	7500	12000	H71922
	150	20	1.10	0.60	41.3	40.5	11000	18000	39.0	38.3	9500	16000	H71922/HQ1
	170	28	2.00	1.00	47.9	53.9	9500	16000	45.1	51.1	8000	13000	H7022
	170	28	2.00	1.00	47.9	53.9	11000	18000	45.1	51.1	9000	15000	H7022/HQ1
120	165	22	1.10	0.60	43.1	44.9	8500	14000	40.7	42.4	7500	12000	H71924
	165	22	1.10	0.60	43.1	44.9	10000	17000	40.7	42.4	9000	15000	H71924/HQ1
	180	28	2.00	1.00	58.3	64.9	8500	14000	54.8	61.5	7500	12000	H7024
	180	28	2.00	1.00	58.3	64.9	10000	17000	54.8	61.5	9000	15000	H7024/HQ1
130	180	24	1.50	0.60	53.1	56.6	8000	13000	50.1	53.4	7500	12000	H71926
	180	24	1.50	0.60	53.1	56.6	9000	15000	50.1	53.4	8500	14000	H71926/HQ1
	200	33	2.00	1.00	58.6	66.8	8000	13000	55.1	63.2	7000	11000	H7026
	200	33	2.00	1.00	58.6	66.8	9000	15000	55.1	63.2	8000	13000	H7026/HQ1
140	190	24	1.50	0.60	53.7	59.1	7000	11000	50.7	55.8	6700	10000	H71928
	190	24	1.50	0.60	53.7	59.1	8000	13000	50.7	55.8	7500	12000	H71928/HQ1
	210	33	2.00	1.00	60.7	72.5	7500	12000	57.1	68.7	6700	10000	H7028
	210	33	2.00	1.00	60.7	72.5	8500	14000	57.1	68.7	7500	12000	H7028/HQ1
150	210	28	2.00	1.00	65.2	72.8	6700	10000	61.5	68.7	6000	9000	H71930
	210	28	2.00	1.00	65.2	72.8	7500	12000	61.5	68.7	7000	11000	H71930/HQ1
	225	35	2.10	1.10	74.9	88.5	6700	10000	70.5	83.8	6300	9500	H7030
	225	35	2.10	1.10	74.9	88.5	7500	12000	70.5	83.8	7000	11000	H7030/HQ1
160	220	28	2.00	1.00	66.0	75.8	6000	9000	62.3	71.6	5600	8500	H71932
	220	28	2.00	1.00	66.0	75.8	7000	11000	62.3	71.6	6700	10000	H71932/HQ1
	240	38	2.10	1.10	76.2	94.5	6000	9000	71.6	89.5	5600	8500	H7032
	240	38	2.10	1.10	76.2	94.5	6700	10000	71.6	89.5	6300	9500	H7032/HQ1

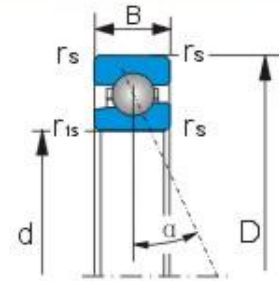
ZYS 高速精密角接触球轴承

ZYS High-speed precision angular contact ball bearings

外形尺寸 Boundary dimensions					$\alpha = 15^\circ$				$\alpha = 25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{smh}	r_{ismh}	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
170	230	28	2.00	1.00	66.7	78.7	5600	8500	63.0	74.3	5000	7500	H71934
	230	28	2.00	1.00	66.7	78.7	6700	10000	63.0	74.3	6000	9000	H71934/HQ1
	260	42	2.10	1.10	78.1	100.6	5600	8500	73.4	95.2	5000	7500	H7034
	260	42	2.10	1.10	78.1	100.6	6300	9500	73.4	95.2	5600	8500	H7034/HQ1
180	250	33	2.00	1.00	79.6	95.0	5000	7500	75.2	89.7	4800	7000	H71936
	250	33	2.00	1.00	79.6	95.0	6000	9000	75.2	89.7	5600	8500	H71936/HQ1
	280	46	2.10	1.10	79.8	106.7	5300	8000	75.0	101.0	4800	7000	H7036
	280	46	2.10	1.10	79.8	106.7	6000	9000	75.0	101.0	5300	8000	H7036/HQ1
190	260	33	2.00	1.00	80.6	98.6	4800	7000	76.1	93.1	4300	6300	H71938
	260	33	2.00	1.00	80.6	98.6	5600	8500	76.1	93.1	5000	7500	H71938/HQ1
	290	46	2.10	1.10	95.3	124.6	4800	7000	89.7	117.9	4300	6300	H7038
	290	46	2.10	1.10	95.3	124.6	5300	8000	89.7	117.9	4800	7000	H7038/HQ1
200	280	38	2.00	1.00	82.8	105.4	4500	6700	78.2	99.5	4000	6000	H71940
	280	38	2.00	1.00	82.8	105.4	5000	7500	78.2	99.5	4500	6700	H71940/HQ1
	310	51	2.10	1.10	96.5	132.0	4500	6700	90.8	124.9	4000	6000	H7040
	310	51	2.10	1.10	96.5	132.0	5000	7500	90.8	124.9	4500	6700	H7040/HQ1
220	300	38	2.00	1.00	96.9	125.4	4300	6300	91.5	118.4	3800	5600	H71944
	300	38	2.00	1.00	96.9	125.4	5000	7500	91.5	118.4	4300	6300	H71944/HQ1
	340	56	3.00	1.10	113.9	156.5	4000	6000	107.2	148.1	3800	5600	H7044
	340	56	3.00	1.10	113.9	156.5	4500	6700	107.2	148.1	4000	6000	H7044/HQ1

系列
Series

B70 B70/HQ1



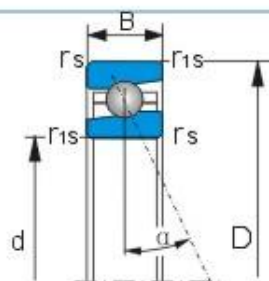
外形尺寸 Boundary dimensions					$\alpha = 15^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{sm}	r_{im}	C_r	C_{or}	脂 Grease	油 Oil	
mm					kN		r/min		
10	26	8	0.30	0.15	3.0	1.2	80000	130000	B7000 C
	26	8	0.30	0.15	3.0	1.2	100000	160000	B7000 C/HQ1
12	28	8	0.30	0.15	3.3	1.3	70000	110000	B7001 C
	28	8	0.30	0.15	3.3	1.3	85000	130000	B7001 C/HQ1
15	32	9	0.30	0.15	3.6	1.6	60000	90000	B7002 C
	32	9	0.30	0.15	3.6	1.6	75000	110000	B7002 C/HQ1
17	35	10	0.30	0.15	3.9	1.7	53000	80000	B7003 C
	35	10	0.30	0.15	3.9	1.7	67000	100000	B7003 C/HQ1
20	42	12	0.60	0.15	5.7	2.7	45000	67000	B7004 C
	42	12	0.60	0.15	5.7	2.7	56000	85000	B7004 C/HQ1
25	47	12	0.60	0.15	7.4	3.8	38000	56000	B7005 C
	47	12	0.60	0.15	7.4	3.8	45000	67000	B7005 C/HQ1
30	55	13	1.00	0.30	9.1	4.8	32000	48000	B7006 C
	55	13	1.00	0.30	9.1	4.8	38000	56000	B7006 C/HQ1
35	62	14	1.00	0.30	10.9	6.0	28000	43000	B7007 C
	62	14	1.00	0.30	10.9	6.0	34000	53000	B7007 C/HQ1
40	68	15	1.00	0.30	12.9	7.4	26000	40000	B7008 C
	68	15	1.00	0.30	12.9	7.4	32000	48000	B7008 C/HQ1
45	75	16	1.00	0.30	15.0	9.0	24000	38000	B7009 C
	75	16	1.00	0.30	15.0	9.0	30000	45000	B7009 C/HQ1
50	80	16	1.00	0.30	15.9	10.0	22000	36000	B7010 C
	80	16	1.00	0.30	15.9	10.0	26000	43000	B7010 C/HQ1
55	90	18	1.10	0.60	19.9	12.9	19000	32000	B7011 C
	90	18	1.10	0.60	19.9	12.9	22000	38000	B7011 C/HQ1
60	95	18	1.10	0.60	20.4	13.6	18000	30000	B7012 C
	95	18	1.10	0.60	20.4	13.6	21000	36000	B7012 C/HQ1

ZYS 高速精密角接触球轴承

ZYS High-speed precision angular contact ball bearings

系列 Series

HS719 HS719/HQ1
HS70 HS70/HQ1



外形尺寸 Boundary dimensions					$\alpha = 15^\circ$				$\alpha = 25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{1sm}	r_{1cm}	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
8	22	7	0.30	0.15	1.65	1.2	95000	160000	1.55	1.1	85000	140000	HS708
10	22	6	0.30	0.10	1.9	1.0	90000	150000	1.8	1.0	80000	130000	HS71900
	22	6	0.30	0.10	1.9	1.0	100000	170000	1.8	1.0	90000	150000	HS71900/HQ1
26	8	0.30	0.15	2.7	1.6	85000	140000	2.6	1.5	70000	120000	HS7000	
	26	8	0.30	0.15	2.7	1.6	95000	160000	2.6	1.5	85000	140000	HS7000/HQ1
12	24	6	0.30	0.10	2.0	1.1	85000	140000	1.9	1.1	75000	120000	HS71901
	24	7	0.30	0.10	2.0	1.1	95000	160000	1.9	1.1	85000	140000	HS71901/HQ1
	28	8	0.30	0.15	2.7	1.6	75000	120000	2.5	1.5	63000	100000	HS7001
	28	8	0.30	0.15	2.7	1.6	85000	140000	2.5	1.5	75000	120000	HS7001/HQ1
15	28	7	0.30	0.10	2.2	1.4	75000	120000	2.1	1.3	63000	95000	HS71902
	28	7	0.30	0.10	2.2	1.4	85000	140000	2.1	1.3	75000	120000	HS71902/HQ1
	32	9	0.30	0.15	3.6	2.3	70000	110000	3.5	2.2	60000	90000	HS7002C
	32	9	0.30	0.15	3.6	2.3	80000	130000	3.5	2.2	70000	110000	HS7002/HQ1
17	30	7	0.30	0.10	2.3	1.5	70000	110000	2.2	1.4	58000	90000	HS71903
	30	9	0.30	0.10	2.3	1.5	80000	130000	2.2	1.4	67000	100000	HS71903/HQ1
	35	10	0.30	0.15	3.8	2.5	60000	90000	3.6	2.3	53000	80000	HS7003
	35	10	0.30	0.15	3.8	2.5	67000	100000	3.6	2.3	63000	95000	HS7003/HQ1
20	37	9	0.30	0.15	3.9	2.7	56000	84000	3.7	2.5	48000	70000	HS71904
	37	9	0.30	0.10	3.9	2.7	67000	100000	3.7	2.5	56000	85000	HS71904/HQ1
	42	12	0.60	0.15	6.1	4.3	53000	80000	5.8	4.1	45000	67000	HS7004
	42	12	0.60	0.15	6.1	4.3	63000	95000	5.8	4.1	50000	75000	HS7004/HQ1
25	42	9	0.30	0.15	4.2	3.2	50000	75000	3.9	3.0	45000	63000	HS71905
	42	9	0.30	0.15	4.2	3.2	56000	85000	3.9	3.0	48000	70000	HS71905/HQ1
	47	12	0.60	0.15	6.2	4.6	45000	67000	5.8	4.4	38000	56000	HS7005
	47	12	0.60	0.15	6.2	4.6	50000	75000	5.8	4.4	45000	67000	HS7005/HQ1
30	47	9	0.30	0.15	6.3	4.9	45000	67000	6.0	4.6	38000	56000	HS71906
	47	10	0.30	0.15	6.3	4.9	50000	75000	6.0	4.6	43000	63000	HS71906/HQ1
	55	13	1.0	0.30	8.6	6.6	40000	60000	8.1	6.3	36000	53000	HS7006
	55	13	1.0	0.30	8.6	6.6	48000	70000	8.1	6.3	40000	60000	HS7006/HQ1
35	55	10	0.60	0.15	6.9	6.0	38000	56000	6.5	5.6	32000	48000	HS71907
	55	12	0.60	0.15	6.9	6.0	43000	63000	6.5	5.6	36000	53000	HS71907/HQ1
	62	14	1.0	0.30	9.2	7.8	36000	53000	8.7	7.4	32000	48000	HS7007
	62	14	1.0	0.30	9.2	7.8	40000	60000	8.7	7.4	36000	53000	HS7007/HQ1

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外形尺寸 Boundary dimensions					$\alpha=15^\circ$				$\alpha=25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{smA}	r_{smB}	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
40	62	12	0.60	0.15	7.2	6.8	32000	48000	6.8	6.4	28000	43000	HS71908
	62	12	0.60	0.15	7.2	6.8	36000	54000	6.8	6.4	30000	45000	HS71908/HQ1
	68	15	1.0	0.30	9.8	8.9	30000	45000	9.3	8.4	26000	40000	HS7008
	68	15	1.0	0.30	9.8	8.9	36000	53000	9.3	8.4	30000	45000	HS7008/HQ1
45	68	12	0.60	0.15	10.0	9.3	28000	43000	9.4	8.8	24000	38000	HS71909
	68	12	0.60	0.15	10.0	9.3	30000	45000	9.4	8.8	28000	43000	HS71909/HQ1
	75	16	1.0	0.30	12.5	11.4	26000	40000	11.8	10.7	24000	38000	HS7009
	75	16	1.0	0.30	12.5	11.4	30000	45000	11.8	10.7	28000	43000	HS7009/HQ1
50	72	12	0.60	0.15	10.3	10.1	24000	38000	9.7	9.5	20000	34000	HS71910
	72	12	0.60	0.15	10.3	10.1	28000	43000	9.7	9.5	24000	38000	HS71910/HQ1
	80	16	1.0	0.30	12.9	12.4	22000	36000	12.2	11.7	19000	32000	HS7010
	80	16	1.0	0.30	12.9	12.4	26000	40000	12.2	11.7	22000	36000	HS7010/HQ1
55	80	13	0.60	0.30	13.2	12.9	20000	34000	12.4	12.2	17000	28000	HS71911
	80	13	0.60	0.15	13.2	12.9	24000	38000	12.4	12.2	20000	34000	HS71911/HQ1
	90	18	1.10	0.60	18.6	17.8	20000	34000	17.5	16.8	18000	30000	HS7011
	90	18	1.10	0.60	18.6	17.8	24000	38000	17.5	16.8	20000	34000	HS7011/HQ1
60	85	13	1.0	0.30	13.6	13.9	19000	32000	12.8	13.2	16000	26000	HS71912
	85	13	1.0	0.30	13.6	13.9	22000	36000	12.8	13.2	19000	32000	HS71912/HQ1
	95	18	1.10	0.60	19.3	19.3	19000	32000	18.2	18.2	16000	26000	HS7012
	95	18	1.10	0.60	19.3	19.3	22000	36000	18.2	18.2	19000	32000	HS7012/HQ1
65	90	13	1.0	0.30	14.0	15.0	18000	30000	13.2	14.1	16000	26000	HS71913
	90	13	1.0	0.30	14.0	15.0	20000	34000	13.2	14.1	18000	30000	HS71913/HQ1
	100	18	1.10	0.60	19.9	20.8	17000	28000	18.8	19.7	14000	22000	HS7013
	100	18	1.10	0.60	19.9	20.8	20000	34000	18.8	19.7	16000	26000	HS7013/HQ1
70	100	16	1.0	0.30	18.3	19.9	17000	28000	17.3	18.7	14000	22000	HS71914
	100	16	1.0	0.30	18.3	19.9	19000	32000	17.3	18.7	16000	26000	HS71914/HQ1
	110	20	1.10	0.60	25.9	26.7	16000	26000	24.4	25.2	14000	22000	HS7014
	110	20	1.10	0.60	25.9	26.7	19000	32000	24.4	25.2	16000	26000	HS7014/HQ1
75	105	16	1.0	0.30	18.8	21.2	16000	26000	17.6	20.0	14000	22000	HS71915
	105	16	1.0	0.30	18.8	21.2	18000	30000	17.6	20.0	16000	24000	HS71915/HQ1
	115	20	1.10	0.60	26.2	27.8	15000	24000	24.7	26.3	13000	20000	HS7015
	115	20	1.10	0.60	26.2	27.8	17000	28000	24.7	26.3	15000	24000	HS7015/HQ1
80	110	16	1.0	0.30	21.0	23.9	15000	24000	19.6	22.4	13000	20000	HS71916
	110	16	1.0	0.30	21.0	23.9	17000	28000	19.6	22.4	15000	24000	HS71916/HQ1
	125	22	1.10	0.60	31.2	33.5	14000	22000	29.5	31.7	12000	19000	HS7016
	125	22	1.10	0.60	31.2	33.5	16000	26000	29.5	31.7	14000	22000	HS7016/HQ1
85	120	18	1.10	0.60	21.9	26.0	14000	22000	20.4	24.5	12000	19000	HS71917
	120	18	1.10	0.60	21.9	26.0	16000	26000	20.4	24.5	14000	22000	HS71917/HQ1
	130	22	1.10	0.60	31.6	34.9	13000	20000	29.9	32.9	11000	18000	HS7017
	130	22	1.10	0.60	31.6	34.9	15000	24000	29.9	32.9	13000	20000	HS7017/HQ1

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外形尺寸 Boundary dimensions					$\alpha=15^\circ$				$\alpha=25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{smh}	r_{SMh}	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
90	125	18	1.10	0.60	23.6	28.5	14000	20000	22.4	26.5	12000	19000	HS71918
	125	18	1.10	0.60	23.6	28.5	16000	26000	22.4	26.5	14000	22000	HS71918/HQ1
	140	24	1.50	0.60	37.1	41.4	12000	19000	35.1	39.1	10000	17000	HS7018
	140	24	1.50	0.60	37.1	41.4	14000	22000	35.1	39.1	13000	20000	HS7018/HQ1
95	130	18	1.10	0.60	24.5	30.0	13000	20000	22.8	28.0	12000	19000	HS71919
	130	18	1.10	0.60	24.5	30.0	15000	24000	22.8	28.0	14000	22000	HS71919/HQ1
	145	24	1.50	0.60	37.6	43.0	11000	18000	35.5	40.6	10000	15000	HS7019
	145	24	1.50	0.60	37.6	43.0	13000	20000	35.5	40.6	11000	18000	HS7019/HQ1
100	140	20	1.10	0.60	29.0	36.0	12000	19000	27.5	33.5	9500	16000	HS71920
	140	20	1.10	0.60	29.0	36.0	14000	22000	27.5	33.5	12000	19000	HS71920/HQ1
	150	24	1.50	0.60	38.1	44.6	11000	18000	36.0	42.1	9000	15000	HS7020
	150	24	1.50	0.60	38.1	44.6	13000	20000	36.0	42.1	11000	18000	HS7020/HQ1
105	145	20	1.10	0.60	30.0	38.0	11000	18000	28.0	35.5	9000	15000	HS71921
	145	20	1.10	0.60	30.0	38.0	13000	20000	28.0	35.5	11000	18000	HS71921/HQ1
	160	26	2.00	1.0	49.1	56.3	10000	17000	46.4	53.2	8500	14000	HS7021
	160	26	2.00	1.0	49.1	56.3	12000	20000	46.4	53.2	9500	16000	HS7021/HQ1
110	150	20	1.10	0.60	34.5	43.8	9500	16000	32.5	40.5	8000	13000	HS71922
	150	20	1.10	0.60	34.5	43.8	12000	19000	32.5	40.5	10000	17000	HS71922/HQ1
	170	28	2.00	1.0	49.7	58.5	10000	17000	46.5	55.3	8500	14000	HS7022
	170	28	2.00	1.0	49.7	58.5	12000	19000	46.5	55.3	9500	16000	HS7022/HQ1
120	165	22	1.10	0.60	36.5	48.0	9000	15000	34.0	45.0	8000	13000	HS71924
	165	22	1.10	0.60	36.5	48.0	11000	18000	34.0	45.0	9500	16000	HS71924/HQ1
	180	28	2.00	1.0	51.0	62.8	10000	15000	48.0	58.5	8000	13000	HS7024
	180	28	2.00	1.0	51.0	62.8	11000	18000	48.0	58.5	9500	16000	HS7024/HQ1
130	180	24	1.50	0.60	41.1	55.9	8500	14000	38.6	52.0	8000	13000	HS71926
	180	24	1.50	0.60	41.1	55.9	9500	16000	38.6	52.0	9000	15000	HS71926/HQ1
	200	33	2.00	1.0	65.4	81.5	8500	14000	61.8	77.0	7500	12000	HS7026
	200	33	2.00	1.0	65.4	81.5	9500	16000	61.0	77.0	8500	14000	HS7026/HQ1
140	190	24	1.50	0.60	41.9	58.0	7500	12000	39.4	54.0	7000	11000	HS71928
	190	24	1.50	0.60	41.9	58.0	8500	14000	39.4	54.0	8000	13000	HS71928/HQ1
	210	33	2.00	1.0	67.0	87.0	8000	13000	63.0	81.5	7000	11000	HS7028
	210	33	2.00	1.0	67.0	87.0	9000	15000	63.0	81.5	8000	13000	HS7028/HQ1
150	210	28	2.00	1.0	47.5	71.1	7000	11000	44.7	67.0	6300	9500	HS71930
	210	28	2.00	1.0	47.5	71.1	8000	13000	44.7	67.0	7500	12000	HS71930/HQ1
	225	35	2.10	1.0	81.5	106.0	7000	11000	76.5	98.0	6700	10000	HS7030
	225	35	2.10	1.0	81.5	106.0	8000	13000	76.5	98.0	7500	12000	HS7030/HQ1
160	220	28	2.00	1.0	50.1	74.8	6300	9500	47.1	70.5	6000	9000	HS71932
	220	28	2.00	1.0	50.1	74.8	7500	12000	47.1	70.5	7000	11000	HS71932/HQ1
	240	38	2.10	1.0	84.3	113.4	6300	9500	79.6	107.2	6000	9000	HS7032
	240	38	2.10	1.0	84.3	113.4	7000	11000	79.6	107.2	6700	10000	HS7032/HQ1

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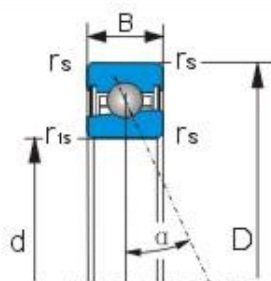
外形尺寸 Boundary dimensions					$\alpha = 15^\circ$				$\alpha = 25^\circ$				轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds		额定载荷 Load ratings		极限转速 Limiting speeds		
d	D	B	r_{sm}/h	r_{SM}/h	Cr	Cor	脂 Grease	油 Oil	Cr	Cor	脂 Grease	油 Oil	
mm					kN		r/min		kN		r/min		
170	230	28	2.00	1.0	57.7	86.8	6000	9000	54.3	81.8	5300	8000	HS71934
	230	28	2.00	1.0	57.7	86.8	7000	11000	54.3	81.8	6300	9500	HS71934/HQ1
	260	42	2.10	1.10	102.7	139.6	6000	9000	97.0	131.9	5300	8000	HS7034
	260	42	2.10	1.10	102.7	139.6	6700	10000	97.0	131.9	6000	9000	HS7034/HQ1
180	250	33	2.00	1.0	59.2	93.1	5300	8000	55.7	87.7	5000	7500	HS71936
	250	33	2.00	1.0	59.2	93.1	6300	9500	55.7	87.7	6000	9000	HS71936/HQ1
	280	46	2.10	1.10	104.8	148.3	5600	8500	99.0	140.1	5000	7500	HS7036
	280	46	2.10	1.10	104.8	148.3	6300	9500	99.0	140.1	5600	8500	HS0936/HQ1
190	260	33	2.00	1.0	75.0	116.1	5000	7500	70.6	109.4	4500	6700	HS71938
	260	33	2.00	1.0	75.0	116.1	6000	9000	70.6	109.4	5300	8000	HS71938/HQ1
	290	46	2.10	1.10	123.7	173.9	5000	7500	116.9	164.3	4500	6700	HS7038
	290	46	2.10	1.10	123.7	173.9	5600	8500	116.9	164.3	5000	7500	HS7038/HQ1
200	280	38	2.00	1.0	75.0	120.7	4800	7000	70.5	113.7	4200	6300	HS71940
	280	38	2.00	1.0	75.0	120.7	5300	8000	70.5	113.7	4800	7000	HS71940/HQ1
	310	51	2.10	1.10	126.4	184.4	4800	7000	119.4	174.2	4300	6300	HS7040
	310	51	2.10	1.10	126.4	184.4	5300	8000	119.4	174.2	4800	7000	HS7040/HQ1
220	300	38	2.00	1.0	84.6	139.6	4500	6700	79.6	131.5	4000	6000	HS71944
	300	38	2.00	1.0	84.6	139.6	5300	8000	79.6	131.5	4500	6700	HS71944/HQ1
	340	56	3.00	1.10	147.7	219.5	4300	6300	139.5	207.4	4000	6000	HS7044
	340	56	3.00	1.10	147.7	219.5	4800	7000	139.5	207.4	4300	6300	HS7044/HQ1

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系列 Series

B719-2RZ B719-2RZ/HQ1
B70-2RZ B70-2RZ/HQ1



外形尺寸 Boundary dimensions					$\alpha = 15^\circ$			$\alpha = 25^\circ$			轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds	额定载荷 Load ratings		极限转速 Limiting speeds	
d	D	B	r_{1s}	r_{1s}	Cr	Cor	脂 Grease	Cr	Cor	脂 Grease	
mm					kN		r/min	kN		r/min	
10	22	6	0.30	0.10	1.9	1.0	90000	1.8	1.0	75000	B71900 -2RZ
	22	6	0.30	0.10	1.9	1.0	100000	1.8	1.0	85000	B71900 -2RZ/HQ1
	26	8	0.30	0.15	2.2	1.2	80000	2.1	1.2	67000	B7000 -2RZ
	26	8	0.30	0.15	2.2	1.2	90000	2.1	1.2	75000	B7000 -2RZ/HQ1
12	24	6	0.30	0.10	2.0	1.1	80000	1.9	1.1	67000	B71901 -2RZ
	24	6	0.30	0.10	2.0	1.1	90000	1.9	1.1	75000	B71901 -2RZ/HQ1
	28	8	0.30	0.15	2.2	1.3	70000	2.0	1.2	60000	B7001 -2RZ
	28	8	0.30	0.15	2.2	1.3	80000	2.0	1.2	70000	B7001 -2RZ/HQ1
15	28	7	0.30	0.10	2.2	1.4	67000	2.1	1.3	56000	B71902 -2RZ
	28	7	0.30	0.10	2.2	1.4	75000	2.1	1.3	63000	B71902 -2RZ/HQ1
	32	9	0.30	0.15	3.6	2.3	60000	3.5	2.2	50000	B7002 -2RZ
	32	9	0.30	0.15	3.6	2.3	70000	3.5	2.2	60000	B7002 -2RZ/HQ1
17	30	7	0.30	0.10	2.3	1.5	60000	2.2	1.4	50000	B71903 -2RZ
	30	7	0.30	0.10	2.3	1.5	70000	2.2	1.4	60000	B71903 -2RZ/HQ1
	35	10	0.30	0.15	3.8	2.5	53000	3.6	2.3	45000	B7003 -2RZ
	35	10	0.30	0.15	3.8	2.5	63000	3.6	2.3	53000	B7003 -2RZ/HQ1
20	37	9	0.30	0.15	3.9	2.7	50000	3.7	2.5	43000	B71904 -2RZ
	37	9	0.30	0.10	3.9	2.7	56000	3.7	2.5	48000	B71904 -2RZ/HQ1
	42	12	0.60	0.15	6.1	4.3	45000	5.8	4.1	38000	B7004 -2RZ
	42	12	0.60	0.15	6.1	4.3	53000	5.8	4.1	45000	B7004 -2RZ/HQ1
25	42	9	0.30	0.15	4.2	3.2	43000	3.9	3.0	36000	B71905 -2RZ
	42	9	0.30	0.15	4.2	3.2	48000	3.9	3.0	40000	B71905 -2RZ/HQ1
	47	12	0.60	0.15	6.2	4.6	38000	5.8	4.4	34000	B7005 -2RZ
	47	12	0.60	0.15	6.2	4.6	45000	5.8	4.4	38000	B7005 -2RZ/HQ1
30	47	9	0.30	0.15	6.3	4.9	36000	6.0	4.6	32000	B71906 -2RZ
	47	9	0.30	0.15	6.3	4.9	43000	6.0	4.6	36000	B71906 -2RZ/HQ1
	55	13	1.00	0.30	8.6	6.6	32000	8.1	6.3	28000	B7006 -2RZ
	55	13	1.00	0.30	8.6	6.6	38000	8.1	6.3	32000	B7006 -2RZ/HQ1
35	55	10	0.60	0.15	6.9	6.0	32000	6.5	5.6	26000	B71907 -2RZ
	55	10	0.60	0.15	6.9	6.0	36000	6.5	5.6	30000	B71907 -2RZ/HQ1
	62	14	1.00	0.30	9.2	7.8	28000	8.7	7.4	24000	B7007 -2RZ
	62	14	1.00	0.30	9.2	7.8	34000	8.7	7.4	28000	B7007 -2RZ/HQ1

ZYS 高速精密角接触球轴承

ZYS High-speed precision angular contact ball bearings

外形尺寸 Boundary dimensions					$\alpha = 15^\circ$			$\alpha = 25^\circ$			轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds	额定载荷 Load ratings		极限转速 Limiting speeds	
d	D	B	r_{smk}	r_{ismk}	Cr	Cor	脂 Grease	Cr	Cor	脂 Grease	
mm					kN		r/min	kN		r/min	
40	62	12	0.60	0.15	7.2	6.8	28000	6.8	6.4	24000	B71908 -2RZ
	62	12	0.60	0.15	7.2	6.8	32000	6.8	6.4	28000	B71908 -2RZ/HQ1
	68	15	1.00	0.30	9.8	8.9	26000	9.3	8.4	22000	B7008 -2RZ
	68	15	1.00	0.30	9.8	8.9	30000	9.3	8.4	26000	B7008 -2RZ/HQ1
45	68	12	0.60	0.15	10.0	9.3	24000	9.4	8.8	22000	B71909 -2RZ
	68	12	0.60	0.15	10.0	9.3	28000	9.4	8.8	24000	B71909 -2RZ/HQ1
	75	16	1.00	0.30	12.5	11.4	24000	11.8	10.7	20000	B7009 -2RZ
	75	16	1.00	0.30	12.5	11.4	26000	11.8	10.7	24000	B7009 -2RZ/HQ1
50	72	12	0.60	0.15	10.3	10.1	22000	9.7	9.5	20000	B71910 -2RZ
	72	12	0.60	0.15	10.3	10.1	26000	9.7	9.5	22000	B71910 -2RZ/HQ1
	80	16	1.00	0.30	12.9	12.4	22000	12.2	11.7	18000	B7010 -2RZ
	80	16	1.00	0.30	12.9	12.4	24000	12.2	11.7	22000	B7010 -2RZ/HQ1
55	80	13	0.60	0.15	13.2	12.9	20000	12.4	12.2	18000	B71911 -2RZ
	80	13	1.00	0.30	13.2	12.9	24000	12.4	12.2	20000	B71911 -2RZ/HQ1
	90	18	1.10	0.30	18.6	17.8	19000	17.5	16.8	17000	B7011 -2RZ
	90	18	1.10	0.60	18.6	17.8	22000	17.5	16.8	19000	B7011 -2RZ/HQ1
60	85	13	1.00	0.30	13.6	13.9	19000	12.8	13.2	17000	B71912 -2RZ
	85	13	1.00	0.30	13.6	13.9	22000	12.8	13.2	19000	B71912 -2RZ/HQ1
	95	18	1.10	0.60	19.3	19.3	18000	18.2	18.2	15000	B7012 -2RZ
	95	18	1.10	0.60	19.3	19.3	20000	18.2	18.2	18000	B7012 -2RZ/HQ1
65	90	13	1.00	0.30	14.0	15.0	18000	13.2	14.1	15000	B71913 -2RZ
	90	13	1.00	0.30	14.0	15.0	20000	13.2	14.1	18000	B71913 -2RZ/HQ1
	100	18	1.10	0.60	19.9	20.8	17000	18.8	19.7	15000	B7013 -2RZ
	100	18	1.10	0.60	19.9	20.8	20000	18.8	19.7	17000	B7013 -2RZ/HQ1
70	100	16	1.00	0.30	18.3	19.9	16000	17.3	18.6	14000	B71914 -2RZ
	100	16	1.00	0.30	18.3	19.9	19000	17.3	18.6	16000	B71914 -2RZ/HQ1
	110	20	1.10	0.60	25.9	26.7	16000	24.4	25.2	13000	B7014 -2RZ
	110	20	1.10	0.60	25.9	26.7	18000	24.4	25.2	15000	B7014 -2RZ/HQ1
75	105	16	1.00	0.30	18.8	21.2	16000	17.6	20.0	13000	B71915 -2RZ
	105	16	1.00	0.30	18.8	21.2	18000	17.6	20.0	15000	B71915 -2RZ/HQ1
	115	20	1.10	0.60	26.2	27.8	15000	24.7	26.3	13000	B7015 -2RZ
	115	20	1.10	0.60	26.2	27.8	17000	24.7	26.3	15000	B7015 -2RZ/HQ1
80	110	16	1.00	0.30	21.0	23.9	15000	19.6	22.4	13000	B71916 -2RZ
	110	16	1.00	0.30	21.0	23.9	17000	19.6	22.4	15000	B71916 -2RZ/HQ1
	125	22	1.10	0.60	31.2	33.5	14000	29.5	31.7	12000	B7016 -2RZ
	125	22	1.10	0.60	31.2	33.5	16000	29.5	31.7	13000	B7016 -2RZ/HQ1
85	120	18	1.10	0.60	21.9	26.0	14000	20.4	24.5	12000	B71917 -2RZ
	120	18	1.10	0.60	21.9	26.0	16000	20.4	24.5	13000	B71917 -2RZ/HQ1
	130	22	1.10	0.60	31.6	34.9	13000	29.9	32.9	11000	B7017 -2RZ
	130	22	1.10	0.60	31.6	34.9	15000	29.9	32.9	13000	B7017 -2RZ/HQ1

ZYS 高速精密角接触球轴承

ZYS High-speed precision angular contact ball bearings

外形尺寸 Boundary dimensions					$\alpha=15^\circ$			$\alpha=25^\circ$			轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds	额定载荷 Load ratings		极限转速 Limiting speeds	
d	D	B	r_{sm}	r_{im}	Cr	Cor	脂 Grease	Cr	Cor	脂 Grease	
mm					kN		r/min	kN		r/min	
90	125	18	1.10	0.60	23.6	28.5	13000	22.4	26.5	11000	B71918 -2RZ
	125	18	1.10	0.60	23.6	28.5	15000	22.4	26.5	13000	B71918 -2RZ/HQ1
	140	24	1.50	0.60	37.1	41.4	12000	35.1	39.1	10000	B7018 -2RZ
	140	24	1.50	0.60	37.1	41.4	14000	35.1	39.1	12000	B7018 -2RZ/HQ1
95	130	18	1.10	0.60	24.5	30.0	12000	22.8	28.0	10000	B71919 -2RZ
	130	18	1.10	0.60	24.5	30.0	14000	22.8	28.0	12000	B71919 -2RZ/HQ1
	145	24	1.50	0.60	37.6	43.0	11000	35.5	40.6	9500	B7019 -2RZ
	145	24	1.50	0.60	37.6	43.0	13000	35.5	40.6	11000	B7019 -2RZ/HQ1
100	140	20	1.10	0.60	29.0	36.0	11000	27.5	33.5	9500	B71920 -2RZ
	140	20	1.10	0.60	29.0	36.0	13000	27.5	33.5	11000	B71920 -2RZ/HQ1
	150	24	1.50	0.60	38.1	44.6	11000	36.0	42.1	9000	B7020 -2RZ
	150	24	1.50	0.60	38.1	44.6	12000	36.0	42.1	11000	B7020 -2RZ/HQ1
105	145	20	1.10	0.60	30.0	38.0	11000	28.0	35.5	9000	B71921 -2RZ
	145	20	1.10	0.60	30.0	38.0	12000	28.0	35.5	11000	B71921 -2RZ/HQ1
	160	26	2.00	1.00	49.1	56.3	10000	46.4	53.2	8000	B7021 -2RZ
	160	26	2.00	1.00	49.1	56.3	12000	46.4	53.2	10000	B7021 -2RZ/HQ1
110	150	20	1.10	0.60	34.5	43.8	10000	32.5	40.5	9000	B71922 -2RZ
	150	20	1.10	0.60	34.5	43.8	12000	32.5	41.4	10000	B71922 -2RZ/HQ1
	170	28	2.00	1.00	49.7	58.5	9500	46.9	55.3	8000	B7022 -2RZ
	170	28	2.00	1.00	49.7	58.5	11000	46.9	55.3	9000	B7022 -2RZ/HQ1
120	165	22	1.10	0.60	36.5	48.0	9000	34.0	45.0	8000	B71924 -2RZ
	165	22	1.10	0.60	36.5	48.0	11000	34.0	45.0	9000	B71924 -2RZ/HQ1
	180	28	2.00	1.00	51.0	62.8	8500	48.2	58.5	7500	B7024 -2RZ
	180	28	2.00	1.00	51.0	62.8	10000	48.2	58.5	8500	B7024 -2RZ/HQ1
130	180	24	1.50	0.60	41.1	55.9	8500	38.6	52.0	7000	B71926 -2RZ
	180	24	1.50	0.60	41.1	55.9	9000	38.6	52.0	8000	B71926 -2RZ/HQ1
	200	33	2.00	1.00	65.4	81.5	7500	61.8	77.0	6700	B7026 -2RZ
	200	33	2.00	1.00	65.4	81.5	9000	61.0	77.0	7500	B7026 -2RZ/HQ1
140	190	24	1.50	0.60	41.9	60.0	7000	39.4	55.6	6700	B71928 -2RZ
	190	24	1.50	0.60	41.9	60.0	8000	39.4	55.6	7500	B71928 -2RZ/HQ1
	210	33	2.00	1.00	67.1	87.0	6700	63.4	82.2	6300	B7028 -2RZ
	210	33	2.00	1.00	67.1	87.0	7500	63.4	82.2	7000	B7028 -2RZ/HQ1
150	210	28	2.00	1.00	47.5	71.1	6700	44.7	67.0	6000	B71930 -2RZ
	210	28	2.00	1.00	47.5	71.1	7500	44.7	67.0	6700	B71930 -2RZ/HQ1
	225	35	2.10	1.10	82.4	106.5	6000	77.8	100.6	5600	B7030 -2RZ
	225	35	2.10	2.10	82.4	106.5	6700	77.8	100.6	6300	B7030 -2RZ/HQ1
160	220	28	2.00	1.00	50.1	74.8	6000	47.1	70.5	5600	B71932 -2RZ
	220	28	2.00	1.00	50.1	74.8	6700	47.1	70.5	6300	B71932 -2RZ/HQ1
	240	38	2.10	1.10	84.3	113.4	5600	79.6	107.2	5000	B7032 -2RZ
	240	38	2.10	1.10	84.3	113.4	6300	79.6	107.2	5600	B7032 -2RZ/HQ1

外形尺寸 Boundary dimensions					$\alpha=15^\circ$			$\alpha=25^\circ$			轴承代号 Bearing designations
					额定载荷 Load ratings		极限转速 Limiting speeds	额定载荷 Load ratings		极限转速 Limiting speeds	
d	D	B	r _{smk}	r _{Smk}	Cr	Cor	脂 Grease	Cr	Cor	脂 Grease	
mm					kN		r/min	kN		r/min	
170	230	28	2.00	1.00	57.7	86.8	5600	54.3	81.8	5000	B71934 -2RZ
	230	28	2.00	1.00	57.7	86.8	6300	54.3	81.8	5600	B71934 -2RZ/HQ1
	260	42	2.10	1.10	102.7	139.6	5300	97.0	131.9	4800	B7034 -2RZ
	260	42	2.10	1.10	102.7	139.6	6000	97.0	131.9	5300	B7034 -2RZ/HQ1
180	250	33	2.00	1.00	59.2	93.1	5000	55.7	87.7	4800	B71936 -2RZ
	250	33	2.00	1.00	59.2	93.1	5600	55.7	87.7	5300	B71936 -2RZ/HQ1
	280	46	2.10	1.10	104.8	148.3	4800	99.0	140.1	4300	B7036 -2RZ
	280	46	2.10	1.10	104.8	148.3	5300	99.0	140.1	4800	B7036 -2RZ/HQ1
190	260	33	2.00	1.00	75.0	116.1	4800	70.6	109.4	4300	B71938 -2RZ
	260	33	2.00	1.00	75.0	116.1	5300	70.6	109.4	4800	B71938 -2RZ/HQ1
	290	46	2.10	1.10	123.7	173.9	4500	116.9	164.3	4000	B7038 -2RZ
	290	46	2.10	1.10	123.7	173.9	5000	116.9	164.3	4500	B7038 -2RZ/HQ1
200	280	38	2.00	1.00	75.0	120.7	4500	70.5	113.7	4000	B71940 -2RZ
	280	38	2.00	1.00	75.0	120.7	5000	70.5	113.7	4500	B71940 -2RZ/HQ1
	310	51	2.10	1.10	126.4	184.4	4000	119.4	174.2	3800	B7040 -2RZ
	310	51	2.10	1.10	126.4	184.4	4500	119.4	174.2	4300	B7040 -2RZ/HQ1
220	300	38	2.00	1.00	84.6	139.6	4300	79.6	131.5	3800	B71944 -2RZ
	300	38	2.00	1.00	84.6	139.6	4800	79.6	131.5	4300	B71944 -2RZ/HQ1
	340	56	3.00	1.10	147.7	219.5	3800	139.5	207.4	3600	B7044 -2RZ
	340	56	3.00	1.10	147.7	219.5	4300	139.5	207.4	4000	B7044 -2RZ/HQ1

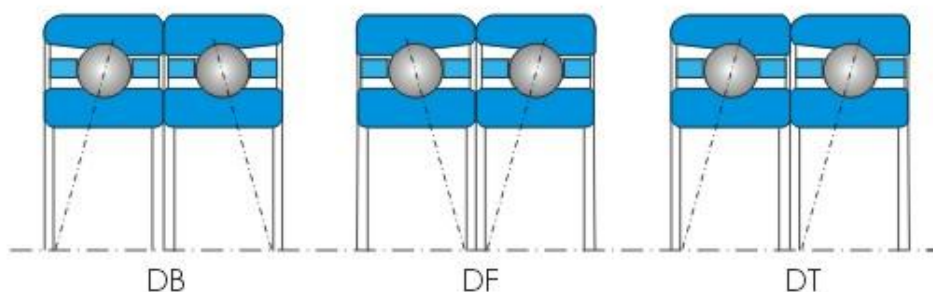
角接触球轴承代号对照

Comparison table of ZYS angular contact ball bearings with other makers

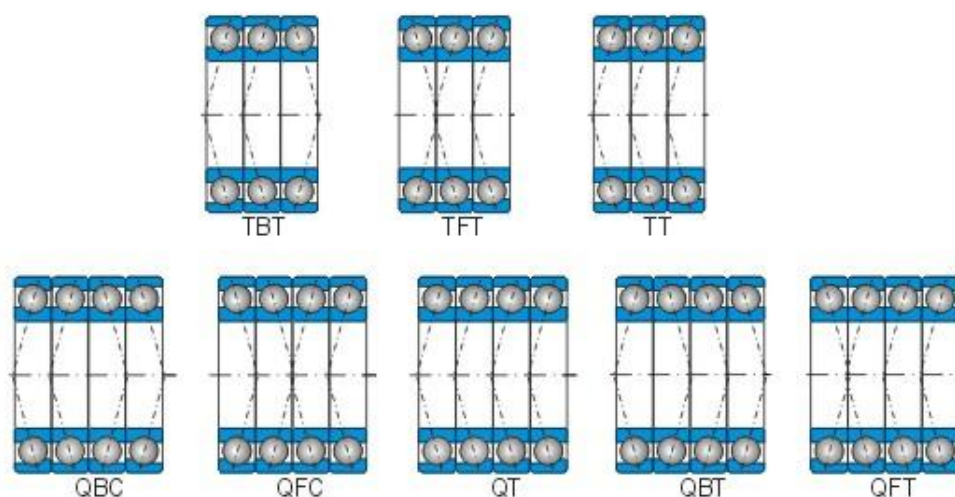
轴承类型 Bearing type	ZYS	SNFA	FAG	SKF	NSK	GMN	FAFNIR	RHP	
角接触球轴承	718	SEA	B718						
	719	SEB	B719	719	79	S619	93WM	79	
	70	EX	B70	70	70	S60	91WM	70	
	72	E200	B72	72	72	S62	2WI	72	
	H719	HB...VEB				BNC19	993WN	S79	
	H70	HX-VEX			70CC	BNC10	SH60	991WN	S70
	HS719			HS719					
	HS70			HS70					
	B719-2RZ	HB.../S		HSS719					
	B70-2RZ	HX.../S VEX.../S		HSS70					
	B70					SN60	91WO		

ZYS 高速精密角接触球轴承

ZYS High-speed precision angular contact ball bearings



轴承双联配置形式
Duplex Pairings



常用多联组配轴承的配置形式
Triplex and Quadruplex

转速调整系数

Speed adjustment factor

常用组配方式 Bearing sets	预载等级 Preload levels	公差等级 Tolerances classes		
		2	4	5
DT	A	0.99	0.9	0.81
	B	0.88	0.8	0.72
	C	0.7	0.65	0.58
DB、DF	A	0.88	0.8	0.72
	B	0.77	0.7	0.63
	C	0.6	0.55	0.5
TBT、TFT	A	0.77	0.7	0.63
	B	0.6	0.55	0.5
	C	0.38	0.35	0.31
QBC、QFC	A	0.83	0.75	0.68
	B	0.66	0.6	0.54
	C	0.50	0.45	0.41

角接触球轴承配合轴的尺寸公差
Dimensional tolerances for fitting shaft

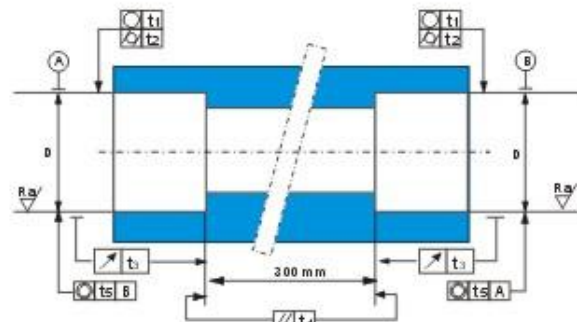
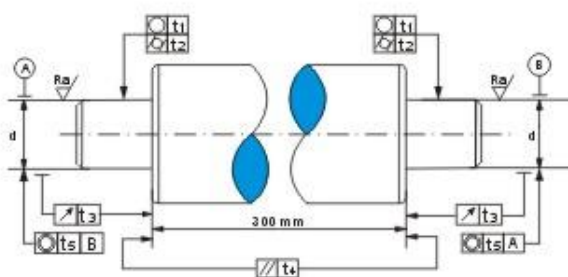
μm

轴径 Shaft diameters mm		超过 over	6	10	18	30	50	80	120	180	250
		到 incl.	10	18	30	50	80	120	180	250	315
精度等级 Accuracy class	P5	上偏差 upper	0	0	0	0	0	+3	+4	+5	+6
		下偏差 lower	-5	-5	-6	-7	-8	-7	-8	-9	-10
	P4 P4A P2	上偏差 upper	0	0	0	0	0	+2	+3	+4	+5
		下偏差 lower	-4	-4	-4	-5	-5	-4	-5	-6	-7
配合目标过盈量 Magnitude of interference		最大 max	2	2	2.5	2.5	3	4	4	5	6
		最小 min	0	0	0	0	0	0	0	0	0

角接触球轴承配合轴承座的尺寸公差
Dimensional tolerances for fitting housing

μm

轴承座孔直径 Housing diameters mm		超过 over	10	18	30	50	80	120	180	250	315	
		到 incl.	18	30	50	80	120	180	250	315	400	
精度等级 Accuracy class	P5	固定端 Fixed end	上偏差 upper	+8	+9	+11	+13	+13	+14	+16	+19	+21
			下偏差 lower	0	0	0	0	-3	-4	-4	-4	-4
		自由端 Free end	上偏差 upper	+10	+11	+13	+15	+15	+18	+20	+23	+25
			下偏差 lower	+2	+2	+2	+2	0	0	0	0	0
	P4 P4A P2	固定端 Fixed end	上偏差 upper	+5	+6	+7	+8	+8	+9	+11	+13	+15
			下偏差 lower	0	0	0	0	-3	-3	-3	-3	-3
		自由端 Free end	上偏差 upper	+7	+8	+9	+10	+10	+12	+14	+16	+18
			下偏差 lower	+2	+2	+2	+2	0	0	0	0	0
配合目标间隙量 Magnitude of clearance	固定端 Fixed end	最大 max.	—	6	6	6	8	8	10	11	15	
		最小 min.	—	2	2	2	3	3	5	5	6	
	自由端 Free end	最大 max.	—	11	11	11	15	15	20	23	28	
		最小 min.	—	6	6	6	9	9	13	15	18	



配合轴和座
Fitting shaft and housing

ZYS 高速精密角接触球轴承

ZYS High-speed precision angular contact ball bearings

配合轴和轴承座的公差 Tolerances for fitting shaft and housing

公差符号 Tolerance symbols		配合轴公差 Tolerances for fitting shaft			配合座公差 Tolerances for fitting housing		
		轴承精度 Bearing accuracy			轴承精度 Bearing accuracy		
		P5	P4	P4A、P2	P5	P4	P4A、P2
○	圆度 Roundness t_1	$\frac{IT3}{2}$	$\frac{IT2}{2}$	$\frac{IT1}{2}$	$\frac{IT3}{2}$	$\frac{IT2}{2}$	$\frac{IT1}{2}$
○	圆柱度 Cylindricity t_2	$\frac{IT3}{2}$	$\frac{IT2}{2}$	$\frac{IT1}{2}$	$\frac{IT3}{2}$	$\frac{IT2}{2}$	$\frac{IT1}{2}$
↗	跳动 Runout t_3	IT3	IT2	IT1	IT3	IT2	IT1
//	平行度 Parallelism t_4	IT3	IT2	IT1	IT3	IT2	IT1
◎	同轴度 Coaxiality t_5	IT4	IT3	IT2	IT4	IT3	IT2
Ra	粗糙度 Roughness (μm)	0.4	0.4	0.2	0.8	0.4	0.4

角接触球轴承4级公差内圈 Class 4-Inner rings

μm

d mm		Δd_{mp}		Δd_s		V _{dsp}		V _{dmp}	K _{ia}	S _d	S _{ia}	ΔB_s			V _{BS}
						直径系列 Diameter series						全部 All	单套 Single	成组 Set	
						9	0、2								
超过 over	到 incl.	上偏差 upper	下偏差 lower	上偏差 upper	下偏差 lower	max		max	max	max	max	上偏差 upper	下偏差 lower	max	
2.5	10	0	-4	0	-4	4	3	2	2.5	3	3	0	-40	-250	2.5
10	18	0	-4	0	-4	4	3	2	2.5	3	3	0	-80	-250	2.5
18	30	0	-5	0	-5	5	4	2.5	3	4	4	0	-120	-250	2.5
30	50	0	-6	0	-6	6	5	3	4	4	4	0	-120	-250	3
50	80	0	-7	0	-7	7	5	3.5	4	5	5	0	-150	-250	4
80	120	0	-8	0	-8	8	6	4	5	5	5	0	-200	-380	4
120	180	0	-10	0	-10	10	8	5	6	6	7	0	-250	-380	5
180	250	0	-12	0	-12	12	9	6	8	7	8	0	-300	-500	6

角接触球轴承4级公差外圈 Class 4-Outer rings

μm

D mm		ΔD_{mp}		ΔD_s		V _{Dsp}		V _{Dmp}	K _{ea}	S _D	S _{ea}	ΔC_s		V _{CS}
						直径系列 Diameter series						上偏差 upper	下偏差 lower	
						9	0、2							
超过 over	到 incl.	上偏差 upper	下偏差 lower	上偏差 upper	下偏差 lower	max		max	max	max	max	上偏差 upper	下偏差 lower	max
6	18	0	-4	0	-4	4	3	2	3	4	5	与同一轴承内圈的 ΔB_s 相同 Same as the value of ΔB_s for the inner ring of the same bearing	2.5	
18	30	0	-5	0	-5	5	4	2.5	4	4	5		2.5	
30	50	0	-6	0	-6	6	5	3	5	4	5		2.5	
50	80	0	-7	0	-7	7	5	3.5	5	4	5		3	
80	120	0	-8	0	-8	8	6	4	6	5	6		4	
120	150	0	-9	0	-9	9	7	5	7	5	7		5	
150	180	0	-10	0	-10	10	8	5	8	5	8		5	
180	250	0	-11	0	-11	11	8	6	10	7	10		7	
250	315	0	-13	0	-13	13	10	7	11	8	10		7	
315	400	0	-15	0	-15	15	11	8	13	10	13		8	