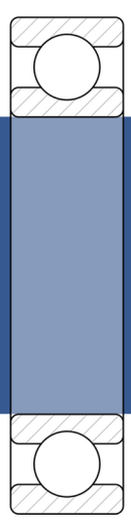
Standard Deep Groove Ball Bearings



Version: 6/2021

Every care has been taken to ensure the correctness of the information contained in this document but no liability can be accepted for any errors or omissions. Subject to change without prior notice.

GSWC Standard Deep Groove Ball Bearings

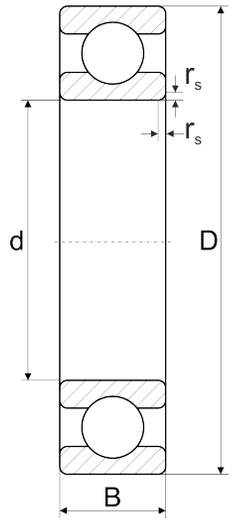
GSWC Standard Deep Groove Ball Bearings offer a high quality solution for normal temperatures up to a maximum of 150°C and fast speeds. These bearings comprise the following properties:

- **Different radial clearance values**
  Normal clearance (CN), C3 or C4 as standard
- **Riveted sheet steel cage**
  provides high stability at low friction
- **High-quality lubricant (suitable up to 150°C)**
  from European manufacturer
- **Optional with steel shields (2ZR) or rubber seals (2RS; up to 120°C)**
- **Broad assortment**
  6000 … 6020
  6200 … 6220
  6300 … 6320

Other sizes, radial clearance values and special lubrications are available on request.

HOISI PRECISION 凯狮精密 180 7312 9830

60xx

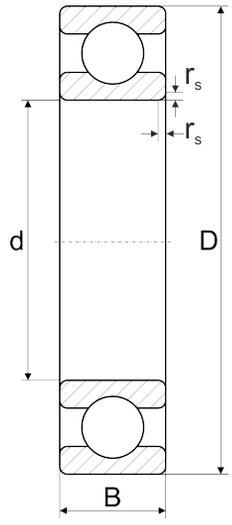


HOISI PRECISION 凯狮精密 180 7312 9830

Code	Dimensions				Load Ratings		Max. Speed			Weight
GSWC	d	D	B	r_s min	C_0	C_{dyn}	Open	2ZR	2RSR	
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min^{-1}]	[min^{-1}]	[min^{-1}]	≈ [kg]
6000	10	26	8	0,3	1,96	4,55	30 000	22 222	19 000	0,019
6001	12	28	8	0,3	2,36	5,10	26 000	20 000	18 000	0,020
6002	15	32	9	0,3	2,85	5,60	24 000	17 021	16 000	0,031
6003	17	35	10	0,3	3,25	6,00	21 000	15 385	14 000	0,038
6004	20	42	12	0,6	5,00	9,30	19 000	12 903	12 000	0,068
6005	25	47	12	0,6	5,85	10,0	17 000	11 111	10 000	0,080
6006	30	55	13	1,0	8,00	12,7	14 000	9 412	8 500	0,122
6007	35	62	14	1,0	10,2	16,0	12 000	8 247	7 500	0,157
6008	40	68	15	1,0	11,6	16,6	11 000	7 407	6 700	0,194
6009	45	75	16	1,0	14,3	20,0	10 000	6 667	6 000	0,247
6010	50	80	16	1,0	15,6	20,8	9 000	6 154	5 600	0,272
6011	55	90	18	1,1	21,2	28,5	8 500	5 517	5 000	0,397
6012	60	95	18	1,1	23,2	29,0	7 500	5 161	4 500	0,404
6013	65	100	18	1,1	25,0	30,5	7 000	4 848	4 300	0,411
6014	70	110	20	1,1	31,0	38,0	6 700	4 444	4 000	0,594
6015	75	115	20	1,1	33,5	39,0	6 300	4 211	3 800	0,639
6016	80	125	22	1,1	40,0	47,5	6 000	3 902	3 300	0,844
6017	85	130	22	1,1	43,0	49,0	5 600	3 721	3 100	0,880
6018	90	140	24	1,5	50,0	58,5	5 300	3 478	3 000	1,010
6019	95	145	24	1,5	54,0	60,0	5 000	3 333	2 800	1,070
6020	100	150	24	1,5	54,0	60,0	4 800	3 200	2 600	1,140

Remark: The weight applies for the bearing only without lubricant and shields.

62xx

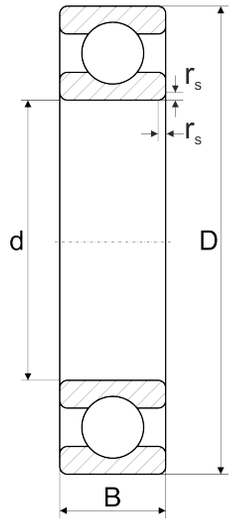


HOISI PRECISION 凯狮精密 180 7312 9830

Code	Dimensions				Load Ratings		Max. Speed			Weight
GSWC	d	D	B	r_s min	C_0	C_{dyn}	Open	2ZR	2RSR	
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min^{-1}]	[min^{-1}]	[min^{-1}]	≈ [kg]
6200	10	30	9	0,6	2,60	6,00	26 000	20 000	17 000	0,031
6201	12	32	10	0,6	3,10	6,95	24 000	18 182	16 000	0,037
6202	15	35	11	0,6	3,75	7,80	22 000	16 000	14 000	0,043
6203	17	40	12	0,6	4,75	9,50	20 000	14 035	12 000	0,065
6204	20	47	14	1,0	6,55	12,7	18 000	11 940	10 000	0,105
6205	25	52	15	1,0	7,80	14,0	15 000	10 390	9 000	0,128
6206	30	62	16	1,0	11,2	19,3	13 000	8 696	7 500	0,195
6207	35	72	17	1,1	15,3	25,5	11 000	7 477	6 300	0,291
6208	40	80	18	1,1	18,0	29,0	10 000	6 667	5 600	0,371
6209	45	85	19	1,1	20,4	31,0	9 000	6 154	5 300	0,429
6210	50	90	20	1,1	24,0	36,5	8 500	5 714	4 800	0,466
6211	55	100	21	1,5	29,0	43,0	7 500	5 161	4 300	0,616
6212	60	110	22	1,5	36,0	52,0	7 000	4 706	4 000	0,789
6213	65	120	23	1,5	41,5	60,0	6 300	4 324	3 600	0,980
6214	70	125	24	1,5	44,0	62,0	6 000	4 103	3 400	1,060
6215	75	130	25	1,5	49,0	65,5	5 600	3 902	3 200	1,170
6216	80	140	26	2,0	53,0	72,0	5 300	3 636	3 000	1,390
6217	85	150	28	2,0	64,0	83,0	5 000	3 404	2 800	1,780
6218	90	160	30	2,0	72,0	96,5	4 800	3 200	2 500	2,140
6219	95	170	32	2,1	81,5	108,0	4 500	3 019	2 400	2,610
6220	100	180	34	2,1	93,0	122,0	4 300	2 857	2 400	3,130

Remark: The weight applies for the bearing only without lubricant and shields.

63xx



HOISI PRECISION 凯狮精密 180 7312 9830

Code	Dimensions				Load Ratings		Max. Speed			Weight
GSWC	d	D	B	r_s min	C_0	C_{dyn}	Open	2ZR	2RSR	
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min^{-1}]	[min^{-1}]	[min^{-1}]	≈ [kg]
6300	10	35	11	0,6	3,45	8,15	24 000	17 778	15 000	0,055
6301	12	37	12	1,0	4,15	9,65	22 000	16 327	13 000	0,062
6302	15	42	13	1,0	5,40	11,4	20 000	14 035	12 000	0,088
6303	17	47	14	1,0	6,55	13,4	18 000	12 500	11 000	0,114
6304	20	52	15	1,1	7,80	16,0	16 000	11 111	9 500	0,151
6305	25	62	17	1,1	11,4	22,4	14 000	9 195	7 500	0,234
6306	30	72	19	1,1	16,3	29,0	11 000	7 843	6 300	0,355
6307	35	80	21	1,5	19,0	33,5	9 500	6 957	5 600	0,471
6308	40	90	23	1,5	25,0	42,5	8 500	6 154	5 000	0,640
6309	45	100	25	1,5	31,5	53,0	7 500	5 517	4 500	0,847
6310	50	110	27	2,0	38,0	62,0	7 000	5 000	4 000	1,100
6311	55	120	29	2,0	47,5	76,5	6 700	4 571	3 600	1,390
6312	60	130	31	2,1	52,0	81,5	6 000	4 211	3 400	1,750
6313	65	140	33	2,1	60,0	93,0	5 300	3 902	3 000	2,070
6314	70	150	35	2,1	68,0	104,0	5 000	3 636	2 800	2,510
6315	75	160	37	2,1	76,5	114,0	4 800	3 404	2 600	3,010
6316	80	170	39	2,1	86,5	122,0	4 500	3 200	2 500	3,580
6317	85	180	41	3,0	96,5	132,0	4 300	3 019	2 400	4,220
6318	90	190	43	3,0	102,0	134,0	4 000	2 857	2 300	4,900
6319	95	200	45	3,0	112,0	143,0	3 800	2 712	2 200	5,660
6320	100	215	47	3,0	134,0	163,0	3 600	2 540	2 100	6,990

Remark: The weight applies for the bearing only without lubricant and shields.