



Stainless Steel Deep Groove Ball Bearings



Version: 6/2021

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GSWC Stainless Steel Deep Groove Ball Bearings

The latest products in the portfolio of GSWC are Deep Groove Ball Bearings made of stainless steel. The basic material is a high-quality steel, which due to its chemical composition offers an ideal combination of corrosion protection, hardness, temperature stability and wear resistance for Deep Groove Ball Bearings.

Stainless Steel Deep Groove Ball Bearings are available in three versions:

- T250 with Viton-Seals (2VSR)
- T280 with steel shields (2ZR)
- T320 with steel shields (2ZR)

Regardless of the temperature range, all Stainless Steel Deep Groove Ball Bearings are lubricated with a high-quality grease, which is suitable for food and beverage industries (food grade H1).

Tolerances:
According to DIN 620 and DIN ISO 1132.



T250 / T280

T250 and T280 stainless steel bearings differentiate only by the type of sealing. They comprise the following properties:

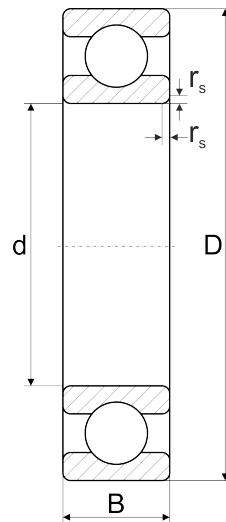
- General heat treatment of the stainless steel bearing
- Radial clearance C3
- Riveted sheet steel cage
- High-quality food-grade lubricant (suitable up to 280°C)
- T250: Viton seals (2VSR)
- T280: Steel shields (2ZR)

T320

Every T320 stainless steel bearing is filled with suitable lubricant or available as sealed bearing and comprises the following properties:

- General heat treatment of the stainless steel bearing
- Radial clearance C3
- Riveted sheet steel cage
- High-quality food-grade lubricant (suitable up to 320°C)
- Steel shields (2ZR)

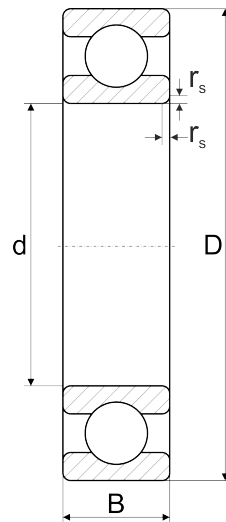
S60xx



Code	Dimensions				Load Ratings		Max. Speed				Weight ≈ [kg]
	d [mm]	D [mm]	B [mm]	r _s min [mm]	C ₀ [kN]	C _{dyn} [kN]	T250 2VSR [min ⁻¹]	T280 [min ⁻¹]	T320 [min ⁻¹]		
S6000	10	26	8	0,3	1,78	4,16	28 000	16 667	16 667	16 667	0,019
S6001	12	28	8	0,3	2,38	5,11	24 000	15 000	15 000	15 000	0,021
S6002	15	32	9	0,3	2,84	5,59	22 000	12 766	12 766	12 766	0,030
S6003	17	35	10	0,3	3,25	6,00	20 000	11 538	11 538	11 538	0,039
S6004	20	42	12	0,6	5,02	9,39	17 000	9 677	9 677	9 677	0,069
S6005	25	47	12	0,6	5,86	10,6	14 000	8 333	8 333	8 333	0,080
S6006	30	55	13	1,0	7,46	11,9	12 000	7 059	7 059	7 059	0,116
S6007	35	62	14	1,0	8,60	12,5	11 000	6 186	6 186	6 186	0,155
S6008	40	68	15	1,0	9,40	13,2	9 000	5 556	5 556	5 556	0,185
S6009	45	75	16	1,0	11,8	16,2	7 800	5 000	5 000	5 000	0,231
S6010	50	80	16	1,0	12,8	16,8	7 000	4 615	4 615	4 615	0,250
S6011	55	90	18	1,1	21,8	30,2	6 300	4 138	4 138	4 138	0,362
S6012	60	95	18	1,1	24,2	31,5	5 800	3 871	3 871	3 871	0,385

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

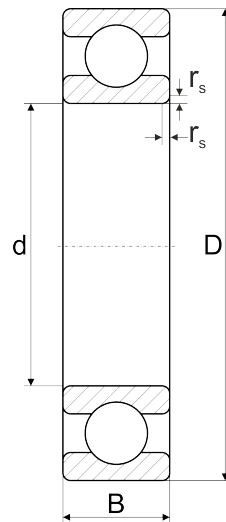
S62xx



Code	Dimensions				Load Ratings		Max. Speed				Weight ≈ [kg]
	d [mm]	D [mm]	B [mm]	r_s min [mm]	C_0 [kN]	C_{dyn} [kN]	T250 2VSR [min ⁻¹]	T280 [min ⁻¹]	T320 [min ⁻¹]		
S6200	10	30	9	0,6	2,38	5,11	24 000	15 000	15 000	15 000	0,032
S6201	12	32	10	0,6	3,05	6,82	22 000	13 636	13 636	13 636	0,037
S6202	15	35	11	0,6	3,72	7,65	20 000	12 000	12 000	12 000	0,045
S6203	17	40	12	0,6	4,78	9,58	18 000	10 526	10 526	10 526	0,065
S6204	20	47	14	1,0	6,65	12,8	15 000	8 955	8 955	8 955	0,106
S6205	25	52	15	1,0	7,85	14,0	13 000	7 792	7 792	7 792	0,128
S6206	30	62	16	1,0	11,3	19,5	10 000	6 522	6 522	6 522	0,199
S6207	35	72	17	1,1	15,4	25,7	10 000	5 607	5 607	5 607	0,288
S6208	40	80	18	1,1	18,0	29,5	9 000	5 000	5 000	5 000	0,368
S6209	45	85	19	1,1	20,5	31,5	8 500	4 615	4 615	4 615	0,416
S6210	50	90	20	1,1	23,2	35,0	7 500	4 286	4 286	4 286	0,463
S6211	55	100	21	1,5	29,2	43,2	7 000	3 871	3 871	3 871	0,603
S6212	60	110	22	1,5	32,8	47,8	6 300	3 529	3 529	3 529	0,789

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

S63xx



Code	Dimensions				Load Ratings		Max. Speed				Weight ≈ [kg]
	d [mm]	D [mm]	B [mm]	r _s min [mm]	C ₀ [kN]	C _{dyn} [kN]	T250 2VSR [min ⁻¹]	T280 [min ⁻¹]	T320 [min ⁻¹]		
S6300	10	35	11	0,6	3,48	7,65	22 000	13 333	13 333	13 333	0,053
S6301	12	37	12	1,0	5,08	9,72	20 000	12 245	12 245	12 245	0,060
S6302	15	42	13	1,0	5,42	11,5	18 000	10 526	10 526	10 526	0,082
S6303	17	47	14	1,0	6,58	13,5	16 000	9 375	9 375	9 375	0,115
S6304	20	52	15	1,1	7,88	15,8	13 000	8 333	8 333	8 333	0,142
S6305	25	62	17	1,1	11,3	20,6	12 000	6 897	6 897	6 897	0,232
S6306	30	72	19	1,1	15,0	26,7	10 000	5 882	5 882	5 882	0,346
S6307	35	80	21	1,5	19,3	33,4	8 500	5 217	5 217	5 217	0,457
S6308	40	90	23	1,5	24,0	40,8	7 500	4 615	4 615	4 615	0,639
S6309	45	100	25	1,5	31,8	52,8	7 000	4 138	4 138	4 138	0,837
S6310	50	110	27	2,0	38,0	61,8	6 700	3 750	3 750	3 750	1,082
S6311	55	120	29	2,0	44,8	71,5	6 000	3 429	3 429	3 429	1,367
S6312	60	130	31	2,1	51,8	81,8	5 300	3 158	3 158	3 158	1,710

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