

HIGH TEMPERATURE STAINLESS STEEL DEEP GROOVE BALL BEARINGS



Version: 01/2025

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GMW – High temperature Stainless Steel Deep Groove Ball Bearings

The latest products in the portfolio of GMW are Deep Groove Ball Bearings made of Stainless steel. The basic material is a high-quality Stainless 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. We offer two different versions:

ST200 - (According to ISO15510:2014 and Food grand NSF-H1)

Every ST280 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 stainless steel cage
- High-quality food-grade lubricant oil base PTFE/PFPE (suitable up to 220°C)
- Stainless Steel shields (2Z) and NBR seal (2RS1)

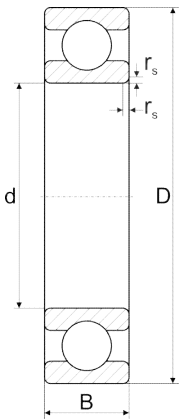


ST280 - (According to ISO15510:2014 and Food grand NSF-H1)

Every ST280 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 stainless steel cage
- High-quality food-grade lubricant oil base PTFE/PFPE (suitable up to 280°C)
- Stainless Steel shields (2Z) and NBR seal (2RS1)

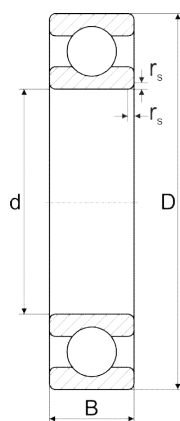




GMW	Dimensions				Load Ratings		Max. Speed		Weight
Code	d	D	B	rs	C0	Cdyn	ST200	ST280	
	[mm]	[mm]	[mm]	min	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	
S6000	10	26	8	0,3	1,78	4,16	19 000	16 667	0,019
S6001	12	28	8	0,3	2,38	5,11	18 000	15 000	0,020
S6002	15	32	9	0,3	2,84	5,59	16 000	12 766	0,031
S6003	17	35	10	0,3	3,25	6,00	14 000	11 538	0,038
S6004	20	42	12	0,6	5,02	9,39	12 000	9 677	0,068
S6005	25	47	12	0,6	5,86	10,6	10 000	8 333	0,080
S6006	30	55	13	1,0	7,46	11,9	8 500	7 059	0,122
S6007	35	62	14	1,0	8,60	12,5	7 500	6 186	0,157
S6008	40	68	15	1,0	9,40	13,2	6 700	5 556	0,194
S6009	45	75	16	1,0	11,8	16,2	6 000	5 000	0,247
S6010	50	80	16	1,0	12,8	16,8	5 600	4 615	0,272
S6011	55	90	18	1,1	21,8	30,2	5 000	4 138	0,397
S6012	60	95	18	1,1	24,2	31,5	4 500	3 871	0,404

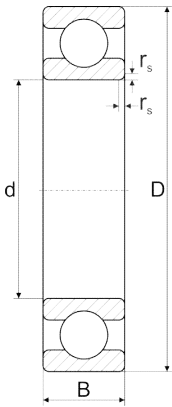
(Remark: The weight applies for the bearing only without lubricant and shields)

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GMW	Dimensions				Load Ratings		Max. Speed		Weight
Code	d	D	B	rs	C0	Cdyn	ST200	ST280	
	[mm]	[mm]	[mm]	min	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	
S6200	10	30	9	0,6	2,38	5,11	24 000	15 000	0,032
S6201	12	32	10	0,6	3,05	6,82	22 000	13 636	0,037
S6202	15	35	11	0,6	3,72	7,65	20 000	12 000	0,045
S6203	17	40	12	0,6	4,78	9,58	18 000	10 526	0,065
S6204	20	47	14	1,0	6,65	12,8	15 000	8 955	0,106
S6205	25	52	15	1,0	7,85	14,0	13 000	7 792	0,128
S6206	30	62	16	1,0	11,3	19,5	10 000	6 522	0,199
S6207	35	72	17	1,1	15,4	25,7	10 000	5 607	0,288
S6208	40	80	18	1,1	18,0	29,5	9 000	5 000	0,368
S6209	45	85	19	1,1	20,5	31,5	8 500	4 615	0,416
S6210	50	90	20	1,1	23,2	35,0	7 500	4 286	0,463
S6211	55	100	21	1,5	29,2	43,2	7 000	3 871	0,603
S6212	60	110	22	1,5	32,8	47,8	6 300	3 529	0,789

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



GMW	Dimensions				Load Ratings		Max. Speed		Weight
Code	d	D	B	rs	C0	Cdyn	ST200	ST280	
	[mm]	[mm]	[mm]	min	[kN]	[kN]	[min ⁻¹]	[min ⁻¹]	
S6300	10	35	11	0,6	3,48	7,65	22 000	13 333	0,053
S6301	12	37	12	1,0	5,08	9,72	20 000	12 245	0,060
S6302	15	42	13	1,0	5,42	11,5	18 000	10 526	0,082
S6303	17	47	14	1,0	6,58	13,5	16 000	9 375	0,115
S6304	20	52	15	1,1	7,88	15,8	13 000	8 333	0,142
S6305	25	62	17	1,1	11,3	20,6	12 000	6 897	0,232
S6306	30	72	19	1,1	15,0	26,7	10 000	5 882	0,346
S6307	35	80	21	1,5	19,3	33,4	8 500	5 217	0,457
S6308	40	90	23	1,5	24,0	40,8	7 500	4 615	0,639
S6309	45	100	25	1,5	31,8	52,8	7 000	4 138	0,837
S6310	50	110	27	2,0	38,0	61,8	6 700	3 750	1,082
S6311	55	120	29	2,0	44,8	71,5	6 000	3 429	1,367
S6312	60	130	31	2,1	51,8	81,8	5 300	3 158	1,710

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