Stainless Steel Thin Section Ball Bearings

Version: 6/2021

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GSWC Stainless Steel Thin Section Ball Bearings

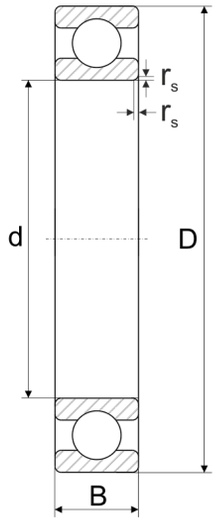
In line with the Stainless Steel Deep Groove Ball Bearings, GSWC also offers Thin Section Ball Bearings made of stainless steel, which come in two different versions:

- **T280**
  including high-quality food-grade lubricant (suitable up to 280°C) with H1 certificate
- **T320**
  including high-quality food-grade lubricant (suitable up to 320°C) with H1 certificate

Regardless of the lubricant, all stainless steel bearings comprise the following properties:

- General heat treatment of the stainless steel bearing
- Radial clearance C3
- Riveted sheet steel cage
- Steel shields (2ZR)

S618xx



Code	Dimensions				Load Ratings		Max. Speed			Weight
GSWC	d	D	B	r_s min	C_0	C_{dyn}	Open	T280	T320	
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min^{-1}]	[min^{-1}]	[min^{-1}]	≈ [kg]
S61800	10	19	5	0,3	0,75	1,59	32 000	16 667	16 667	0,005
S61801	12	21	5	0,3	1,04	1,91	29 000	15 000	15 000	0,006
S61802	15	24	5	0,3	1,25	2,07	27 000	12 766	12 766	0,007
S61803	17	26	5	0,3	1,36	2,13	25 000	11 538	11 538	0,020
S61804	20	32	7	0,3	2,23	3,48	22 000	9 677	9 677	0,022
S61805	25	37	7	0,3	2,63	3,68	18 000	8 333	8 333	0,026
S61806	30	42	7	0,3	3,15	4,00	15 000	7 059	7 059	0,027
S61807	35	47	7	0,3	3,60	4,27	13 000	6 186	6 186	0,030
S61808	40	52	7	0,3	3,89	4,41	12 000	5 556	5 556	0,030
S61809	45	58	7	0,3	4,33	4,59	11 000	5 000	5 000	0,044
S61810	50	65	7	0,3	6,08	6,61	9 000	4 615	4 615	0,049
S61811	55	72	7	0,3	8,08	8,53	8 500	4 138	4 138	0,084
S61812	60	78	9	0,3	8,76	9,20	7 600	3 871	3 871	0,106

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

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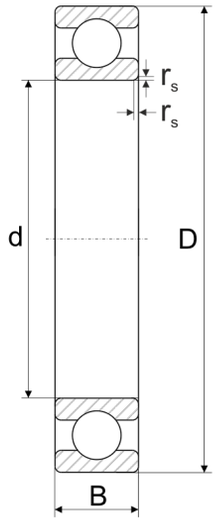
S619xx



Code	Dimensions				Load Ratings		Max. Speed			Weight
GSWC	d	D	B	r_s min	C_0	C_{dyn}	Open	T280	T320	
	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[min^{-1}]	[min^{-1}]	[min^{-1}]	≈ [kg]
S61900	10	22	6	0,3	1,27	2,69	29 000	15 000	15 000	0,008
S61901	12	24	6	0,3	1,46	2,89	25 000	13 636	13 636	0,011
S61902	15	28	7	0,3	2,25	4,32	23 000	12 000	12 000	0,016
S61903	17	30	7	0,3	2,55	4,59	22 000	10 526	10 526	0,018
S61904	20	37	9	0,3	3,68	6,37	20 000	8 955	8 955	0,036
S61905	25	42	9	0,3	4,18	6,66	16 000	7 792	7 792	0,042
S61906	30	47	9	0,3	5,01	7,24	14 000	6 522	6 522	0,048
S61907	35	55	10	0,6	7,16	10,39	12 000	5 607	5 607	0,074
S61908	40	62	12	0,6	9,20	13,02	11 000	5 000	5 000	0,112
S61909	45	68	12	0,6	10,13	13,49	9 900	4 615	4 615	0,128
S61910	50	72	12	0,6	10,66	13,90	9 000	4 286	4 286	0,132
S61911	55	80	13	1,0	12,69	14,82	8 500	3 871	3 871	0,180
S61912	60	85	13	1,0	13,48	15,08	8 100	3 529	3 529	0,198

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

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