

Stainless Steel Extra Small, Miniature Ball Bearings

d	Boundary dimensions			LOAD RATING(kN)		LIMITING SPEED(RPM)		BEARING NUMBER		Bearing Number			Mass Weight
	mm			Dynamic	Stactic	Dynamic	Stactic	Grease	Oil	Open Type	Shielded Type	Sealed Type	KG
	D	B	r	C	Co	C	Co	Lube	Lube				(approx.)
6	17	6	0.3	1.95	0.74	199	75	35000	43000	SS606			0.0058
	17	6	0.3	1.95	0.74	199	75	35000		SS606		LLU	0.0058
	17	6	0.3	1.95	0.74	199	75	35000		SS606	ZZ		0.0058
	19	6	0.3	2.60	1.05	265	107	35000	43000	SS626			0.0081
	19	6	0.3	2.60	1.05	265	107	35000		SS626		LLU	0.0081
	19	6	0.3	2.60	1.05	265	107	35000		SS626	ZZ		0.0081
7	19	6	0.3	2.60	1.05	265	107	40000	47000	SS607			0.0076
	19	6	0.3	2.60	1.05	265	107	40000		SS607		LLU	0.0076
	19	6	0.3	2.60	1.05	265	107	40000		SS607	ZZ		0.0076
	22	7	0.3	3.30	1.35	337	138	31000	37000	SS627			0.0130
	22	7	0.3	3.30	1.35	337	138	31000		SS627		LLU	0.0130
	22	7	0.3	3.30	1.35	337	138	31000		SS627	ZZ		0.0130
8	22	7	0.3	3.35	1.40	342	143	28000	35000	SS608			0.0120
	22	7	0.3	3.35	1.40	342	143	28000		SS608		LLU	0.0120
	22	7	0.3	3.35	1.40	342	143	28000		SS608	ZZ		0.0120
	24	8	0.3	3.35	1.40	342	143	28000	35000	SS628			0.0180
	24	8	0.3	3.35	1.40	342	143	28000		SS628		LLU	0.0180
	24	8	0.3	3.35	1.40	342	143	28000		SS628	ZZ		0.0180
9	24	7	0.3	3.35	1.40	342	143	33000	40000	SS609			0.0150
	24	7	0.3	3.35	1.40	342	143	33000		SS609		LLU	0.0150
	24	7	0.3	3.35	1.40	342	143	33000		SS609	ZZ		0.0150
	26	8	0.6	4.55	1.95	342	143	27000	33000	SS629			0.0200
	26	8	0.6	4.55	1.95	342	143	27000		SS629		LLU	0.0200
	26	8	0.6	4.55	1.95	342	143	27000		SS629	ZZ		0.0200

Stainless Steel Ball Bearings

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				Dynamic	Stactic	Dynamic	Stactic	Grease	Oil	Open Type	Shielded Type	Sealed Type	KG
d	D	B	r	kN		kgf		Lube	Lube				(approx.)
10	19	5	0.30	1.83	0.93	187	94	34000	40000	SS6800	ZZ	LLU	0.0050
	22	6	0.30	2.70	1.25	275	129	32000	38000	SS6900	ZZ	LLU	0.0090
	26	8	0.30	4.55	1.95	465	200	31000	36000	SS6000	ZZ	LLU	0.0190
	30	9	0.60	5.10	2.40	520	244	24000	29000	SS6200	ZZ	LLU	0.0320
	35	11	0.60	8.10	3.45	835	355	22000	27000	SS6300	ZZ	LLU	0.0530
12	21	5	0.30	1.92	1.04	195	106	32000	38000	SS6801	ZZ	LLU	0.0060
	24	6	0.30	2.90	1.45	295	149	30000	36000	SS6901	ZZ	LLU	0.0110
	28	8	0.30	5.10	2.40	520	244	27000	32000	SS6001	ZZ	LLU	0.0220
	32	10	0.60	6.80	3.05	620	280	22000	27000	SS6201	ZZ	LLU	0.0370
	37	12	1.00	9.70	4.20	990	425	20000	25000	SS6301	ZZ	LLU	0.0600
15	24	5	0.30	2.08	1.26	212	128	28000	34000	SS6802	ZZ	LLU	0.0070
	28	7	0.30	4.30	2.25	375	204	26000	30000	SS6902	ZZ	LLU	0.0170
	32	9	0.30	5.60	2.85	570	289	23000	27000	SS6002	ZZ	LLU	0.0300
	35	11	0.60	7.65	3.75	790	365	20000	24000	SS6202	ZZ	LLU	0.0450
	42	13	1.00	11.40	5.45	1170	555	17000	20000	SS6302	ZZ	LLU	0.0820
17	26	5	0.30	2.81	1.72	227	149	26000	30000	SS6803	ZZ	LLU	0.0080
	30	7	0.30	4.60	2.55	475	263	24000	28000	SS6903	ZZ	LLU	0.0180
	35	10	0.30	6.00	3.25	695	345	21000	25000	SS6003	ZZ	LLU	0.0390
	40	12	0.60	9.55	4.80	980	465	17000	21000	SS6203	ZZ	LLU	0.0650
	47	14	1.00	13.60	6.65	1380	665	15000	18000	SS6303	ZZ	LLU	0.1150
20	32	7	0.30	4.00	2.47	410	252	22000	26000	SS6804	ZZ	LLU	0.0180
	37	9	0.30	6.35	3.70	650	375	19000	22000	SS6904	ZZ	LLU	0.0360
	42	12	0.60	9.40	5.05	955	515	17000	21000	SS6004	ZZ	LLU	0.0690
	47	14	1.00	12.80	6.65	1310	680	15000	17000	SS6204	ZZ	LLU	0.1060
	52	15	1.10	15.90	7.85	1620	805	14000	17000	SS6304	ZZ	LLU	0.1440
25	37	7	0.30	4.30	2.95	435	300	18000	22000	SS6805	ZZ	LLU	0.0220
	42	9	0.30	7.00	4.55	715	460	16000	19000	SS6905	ZZ	LLU	0.0410
	47	12	0.60	10.10	5.85	1030	595	15000	18000	SS6005	ZZ	LLU	0.0800
	52	15	1.00	14.00	7.85	1430	800	13000	15000	SS6205	ZZ	LLU	0.1280
	62	17	1.10	20.60	11.30	2160	1110	11000	13000	SS6305	ZZ	LLU	0.2320
30	42	7	0.30	4.70	3.65	480	370	15000	18000	SS6806	ZZ	LLU	0.0260
	47	9	0.30	7.25	5.00	740	510	14000	17000	SS6906	ZZ	LLU	0.0450
	55	13	1.00	13.20	8.25	1350	845	13000	15000	SS6006	ZZ	LLU	0.1160
	62	16	1.00	19.50	11.30	1980	1150	11000	13000	SS6206	ZZ	LLU	0.1990
	72	19	1.10	26.70	15.00	2720	1530	9600	12000	SS6306	ZZ	LLU	0.3460
35	47	7	0.30	4.90	4.05	500	410	13000	16000	SS6807	ZZ	LLU	0.0300
	55	10	0.60	10.90	7.75	975	695	12000	15000	SS6907	ZZ	LLU	0.0730
	62	14	1.00	15.90	10.30	1630	1050	11000	13000	SS6007	ZZ	LLU	0.1550
	72	17	1.10	25.70	15.40	2620	1560	9200	11000	SS6207	ZZ	LLU	0.2880
	80	21	1.50	33.40	19.30	3400	1950	8500	10000	SS6307	ZZ	LLU	0.4570

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mm				kN		kgf		Lube	Lube				(approx.)
d	D	B	r	C	Co	C	Co						
40	52	7	0.30	4.95	4.20	520	445	12000	14000	SS6808	ZZ	LLU	0.0330
	62	12	0.60	13.70	9.95	1240	910	11000	13000	SS6908	ZZ	LLU	0.1120
	68	15	1.00	16.70	11.50	1710	1170	10000	12000	SS6008	ZZ	LLU	0.1920
	80	18	1.10	29.10	17.80	2970	1820	8300	10000	SS6208	ZZ	LLU	0.3660
	90	23	1.50	40.70	24.00	4150	2450	7700	9200	SS6308	ZZ	LLU	0.6330
45	58	7	0.30	6.20	5.40	550	500	11000	13000	SS6809	ZZ	LLU	0.0400
	68	12	0.60	14.10	10.90	1330	9800	9500	12000	SS6909	ZZ	LLU	0.1320
	75	16	1.00	21.00	15.10	2140	1540	9200	11000	SS6009	ZZ	LLU	0.2450
	85	19	1.10	32.70	20.30	3350	7800	7700	9200	SS6209	ZZ	LLU	0.4070
	100	25	1.50	48.90	29.50	5400	3250	6800	8100	SS6309	ZZ	LLU	0.8330
50	65	7	0.30	6.60	6.10	670	620	9500	11000	SS6810	ZZ	LLU	0.0520
	72	12	0.60	14.50	11.70	1370	1140	9000	11000	SS6910	ZZ	LLU	0.1330
	80	16	1.00	21.80	16.60	2230	1690	8400	9900	SS6010	ZZ	LLU	0.2610
	90	20	1.10	35.10	23.30	3600	2370	7100	8500	SS6210	ZZ	LLU	0.4630
	110	27	2.00	62.00	38.30	6300	3900	6100	7300	SS6310	ZZ	LLU	1.0700
55	72	9	0.30	8.80	8.10	900	825	8500	10000	SS6811	ZZ	LLU	0.0830
	80	13	1.00	16.60	14.10	1630	1350	8000	9500	SS6911	ZZ	LLU	0.1850
	90	18	1.10	28.30	21.20	2880	2170	7600	8900	SS6011	ZZ	LLU	0.3850
	100	21	1.50	43.40	29.40	2980	6400	6300	7600	SS6211	ZZ	LLU	0.6070
	120	29	2.00	71.60	45.00	4600	5800	5600	6700	SS6311	ZZ	LLU	1.3700
60	78	10	0.30	11.50	10.60	1170	1080	8000	9500	SS6812	ZZ	LLU	0.1040
	85	13	1.00	20.20	17.30	1670	1450	7500	9000	SS6912	ZZ	LLU	0.1920
	95	18	1.10	29.40	23.20	3000	2370	7100	8400	SS6012	ZZ	LLU	0.4150
	110	22	1.50	52.40	36.20	5350	3700	5700	6900	SS6212	ZZ	LLU	0.7830
	130	31	2.10	81.90	52.20	8350	5300	5200	6200	SS6312	ZZ	LLU	1.7000

Materials of Stainless Bearing

Parts	Materials
Raceways	STS 440C (Martensite stainless steel)
Rolling Element	STS 440C (Martensite stainless steel)
Retainer	STS 304 (Austenite stainless steel)
Shield	STS 304 (Austenite stainless steel) or Rubber Seal

Materials of Raceways, Rolling Element

Generally STB2 is used for stainless bearings but STS 440C is used for special environment bearings.

STS 440C especially has a high hardness, low gas emission feature, corrosion resistance and resistant radiation among other stainless steel materials. Thus STS 440C is widely used for vacuum condition, resistant gas atmosphere, atomic energy generation plant and space equipment, from low to high temperature.