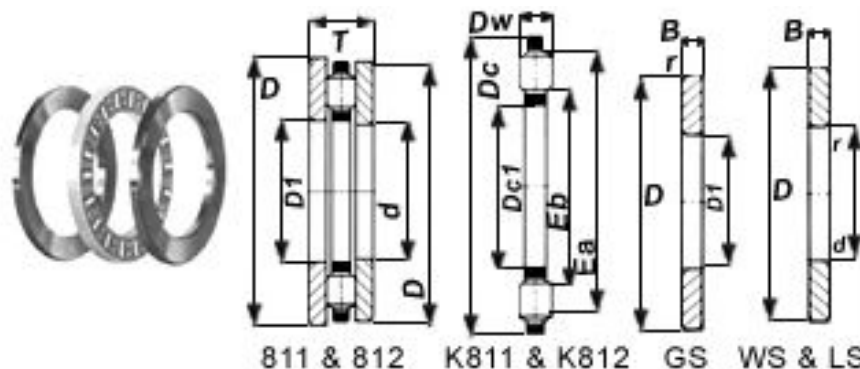




THRUST NEEDLE ROLLER BEARINGS

Metric Dimensions

811, 812 GS, WS and LS Series



Dimension Table of 811, 812 GS, WS and LS Series

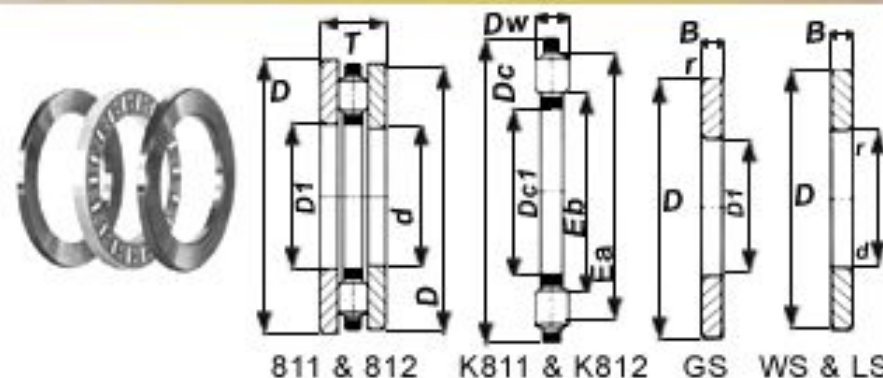
Design - ation	Weight (g)	Design - ation	Weight (g)	Design - ation	Design - ation	Design - ation	Weight (g)	Dimensions mm							Raceway Dimensions		Basic Dynamic Load Rating (kgf)	Basic Static Load Rating (kgf)
								DC1 d	D1	DC D	T	DW	B	a r min	Eb	Ea		
811 02 TN	24	K811 02 TN	6	GS 811 02	WS 811 02	LS 1528	8	15	16	28	9	3.5	2.75	0.3	16	27	1440	2850
811 03 TN	27	K811 03 TN	9	GS 811 03	WS 811 03	LS 1730	9	17	18	30	9	3.5	2.75	0.3	18	29	1590	3350
811 04 TN	37	K811 04 TN	13	GS 811 04	WS 811 04	LS 2035	12	20	21	35	10	4.5	2.75	0.3	21	34	2490	5300
811 05 TN	53	K811 05 TN	15	GS 811 05	WS 811 05	LS 2542	19	25	26	42	11	5	3	0.6	26	41	3350	7600
811 06 TN	57	K811 06 TN	17	GS 811 06	WS 811 06	LS 3047	20	30	32	47	11	5	3	0.6	31	46	3550	8600
812 06 TN	123	K812 06 TN	33	GS 812 06	WS 812 06	-	45	30	32	52	16	7.5	4.25	0.6	31	50	6400	14100
811 07 TN	73	K811 07 TN	19	GS 811 07	WS 811 07	LS 3552	27	35	37	52	12	5	3.5	0.6	36	51	3900	10100
812 07 TN	195	K812 07 TN	43	GS 812 07	WS 812 07	-	76	35	37	62	18	7.5	5.25	1	39	58	8000	19900
811 08 TN	105	K811 08 TN	31	GS 811 08	WS 811 08	LS 4060	37	40	42	60	13	6	3.5	0.6	42	58	5600	14800
812 08 TN	249	K812 08 TN	81	GS 812 08	WS 812 08	-	84	40	42	68	19	9	5	1	43	66	10700	26500
811 09 TN	130	K811 09 TN	35	GS 811 09	WS 811 09	LS 4565	47	45	47	65	14	6	4	0.6	47	63	5900	16300
812 09 TN	287	K812 09 TN	85	GS 812 09	WS 812 09	-	101	45	47	73	20	9	5.5	1	48	70	10500	26500
811 10 TN	140	K811 10 TN	38	GS 811 10	WS 811 10	LS 5070	51	50	52	70	14	6	4	0.6	52	68	6100	17700
812 10 TN	356	K812 10 TN	98	GS 812 10	WS 812 10	-	129	50	52	78	22	9	6.5	1	53	75	11700	31500
811 11 TN	218	K811 11 TN	45	GS 811 11	WS 811 11	LS 5578	82	55	57	78	16	6	5	0.6	57	77	9000	30000
812 11 TN	568	K812 11 TN	166	GS 812 11	WS 812 11	-	201	55	57	90	25	11	7	1	59	85	15400	40500
811 12 TN	266	K811 12 TN	82	GS 811 12	WS 811 12	LS 6085	92	60	62	85	17	7.5	4.75	1	62	82	10300	31500
812 12 TN	642	K812 12 TN	176	GS 812 12	WS 812 12	-	233	60	62	95	26	11	7.5	1	64	91	17200	48000
811 13 TN	310	K811 13 TN	90	GS 811 13	WS 811 13	LS 6590	110	65	67	90	18	7.5	5.25	1	67	87	10700	8700
812 13 TN	721	K812 13 TN	185	GS 812 13	WS 812 13	-	268	65	67	100	27	11	8	1	69	96	17700	9600
811 14 TN	332	K811 14 TN	92	GS 811 14	WS 811 14	LS 7095	120	70	72	95	18	7.5	5.25	1	72	92	11100	9200
812 14 TN	768	K812 14 TN	212	GS 812 14	WS 812 14	-	278	70	72	105	27	11	8	1	74	102	18700	10200
811 15 TN	393	K811 15 TN	96	GS 811 15	WS 811 15	LS 75100	136	75	77	100	19	7.5	5.75	1	78	97	10700	9700
812 15 TN	800	K812 15 TN	195	GS 812 15	WS 812 15	-	293	75	77	110	27	11	8	1	79	106	17200	10600
811 16 TN	400	K811 16 TN	95	GS 811 16	WS 811 16	LS 80105	144	80	82	105	19	7.5	5.75	1	83	102	10800	10200
812 16 TN	900	K812 16 TN	234	GS 812 16	WS 812 16	-	333	80	82	115	28	11	8.5	1	84	112	20100	11200



THRUST NEEDLE ROLLER BEARINGS

Metric Dimensions

811, 812 GS, WS and LS Series



Dimension Table of 811, 812 GS, WS and LS Series

Design - ation	Weight (g)	Design - ation	Weight (g)	Design - ation	Design - ation	Design - ation	Weight (g)	Dimensions mm							Raceway Dimensions		Basic Dynamic Load Rating (kgf)	Basic Static Load Rating (kgf)
								DC1 d	D1	DC D	T	DW	B	a r min	Eb	Ea		
811 17 TN	420	K 811 17 TN	118	GS 811 17	WS 811 17	LS 85110	151	85	87	110	19	7.5	5.75	1	87	108	11200	38500
812 17 TN	1280	K 812 17 TN	280	GS 812 17	WS 812 17	-	490	85	88	125	31	12	9.5	1	90	119	21700	68000
811 18 TN	620	K 811 18 TN	150	GS 811 18	WS 811 18	LS 90120	225	90	92	120	22	9	6.5	1	93	117	14100	46500
812 18 TN	1770	K 812 18 TN	542	GS 812 18	WS 812 18	-	614	90	93	135	35	14	10.5	1.1	95	129	29000	89000
811 20 TN	950	K 811 20 TN	250	GS 811 20	WS 811 20	LS 100135	350	100	102	135	25	11	7	1	104	131	19900	65000
812 20 TN	2200	K 812 20 TN	600	GS 812 20	WS 812 20	-	800	100	103	150	38	15	11.5	1.1	107	142	34000	108000
811 22 TN	1040	K 811 22 TN	270	GS 811 22	WS 811 22	LS 110145	385	110	112	145	25	11	7	1	114	141	20700	70000
812 22 TN	2290	K 812 22 TN	530	GS 812 22	WS 812 22	-	880	110	113	160	38	15	11.5	1.1	117	152	32500	103000
811 24 TN	1120	K 811 24 TN	290	GS 811 24	WS 811 24	LS 120155	415	120	112	155	25	11	7	1	124	151	21400	76000
812 24 TN	2540	K 812 24 TN	580	GS 812 24	WS 812 24	-	980	120	123	170	39	15	12	1.1	127	162	34000	112000
811 26 TN	1670	K 811 26 TN	380	GS 811 26	WS 811 26	LS 130170	643	130	132	170	30	12	9	1	135	165	25000	90000
812 26 TN	3980	K 812 26 TN	920	GS 812 26	WS 812 26	-	1530	130	133	190	45	19	13	1.5	137	181	48000	152000
811 28 TN	1900	K 811 28 TN	400	GS 811 28	WS 811 28	LS 140180	749	140	142	180	31	12	9.5	1	145	175	26000	96000
812 28	4567	K 812 28	1197	GS 812 28	WS 812 28	-	1635	140	143	200	46	19	13.5	1.5	147	191	45500	145000
811 30 TN	2200	K 811 30 TN	430	GS 811 30	WS 811 30	LS 150190	796	150	152	190	31	12	9.5	1	155	185	27000	102000
812 30	5886	K 812 30	1520	GS 812 30	WS 812 30	-	2180	150	153	215	50	21	14.5	1.5	158	211	59000	194000
811 32 TN	2120	K 811 32 TN	440	GS 811 32	WS 811 32	LS 160200	842	160	162	200	31	12	9.5	1	165	195	27000	105000
812 32	7960	K 812 32	3360	GS 812 32	WS 812 32	-	2300	160	163	225	51	21	15	1.5	168	220	60000	203000
811 34 TN	2410	K 811 34 TN	660	GS 811 34	WS 811 34	-	1100	170	172	215	34	14	10	1.1	176	209	36000	138000
812 34	7690	K 812 34	1890	GS 812 34	WS 812 34	-	2900	170	173	240	55	22	16.5	1.5	180	235	68000	234000