



STARSHIP CONSTRUCTION MANUAL

KLINGON EMPIRE



KLINGON EMPIRE



COMPUTER CONTROL SYSTEM TYPES

Control Computer Type	System Mass (mt)	Appropriate Ship Classes	SS Requirement	Maximum WDF Allowed	Availability	Cost (MCr)	Year
ZD-1	90	I-II	0.1	2	RRR/58	3	2225
ZD-2	605	I-VII	0.4	7	RRR/52	11	2228
ZD-3	1,900	III-VII	0.8	16	RRR/44	16	2232
ZD-4	3,850	III-XII	1.2	25	RRR/37	47	2238
ZD-5	7,100	VI-XIV	2	40	RRR/25	70	2241
ZD-6	9,800	VII-XV	2.3	60	RRR/16	130	2253
ZD-7	11,550	IX-XX	2.8	80	RRR/12	218	2261
ZD-8	14,680	XI-XX	3.4	140	RRR/10	315	2265
ZD-9	12,500	IX-XX	3.2	120	RRR/11	270	2285
ZD-10	17,640	XII-XVII	3.6	165	RRR/10	372	2287
ZD-11	19,550	XII-XIX	4	180	RRR/10	405	2298
ZD-12	20,075	XIII-XX	4.8	230	RRR/8	517	2314
ZD-13	20,250	XIV-XX	5.2	290	RRR/7	652	2329
ZD-14	24,220	XIII-XX	6.8	310	RRR/7	776	2333
ZD-15	25,550	XV-XX	7.5	325	RRR/6	812	2339
ZD-16	28,190	XVI-XX	5.6	360	RRR/6	900	2345
ZD-17	31,530	XVII-XX	8.9	400	RRR/5	1002	2349
ZD-18	32,690	XVIII-XX	7.4	415	RRR/5	1038	2351
ZI-1	4,300	IV-XIV	0.9	55	RRR/18	138	2340
ZI-2	7,070	VII-XVI	2.1	90	RRR/11	226	2341
ZI-3	11,800	IX-XIX	2.4	150	RRR/10	376	2343
ZI-4	13,670	X-XX	4.1	175	RRR/10	438	2344
ZI-5	17,240	XI-XX	4.5	220	RRR/9	550	2345
ZI-6	22,120	XIII-XX	5.7	280	RRR/7	702	2347
ZI-7	26,530	XIV-XX	5.7	340	RRR/6	852	2352
ZI-8	33,370	XV-XX	9.7	425	RRR/4	1064	2358
ZI-9	36,140	XV-XIX	8.1	460	RRR/4	1150	2364
ZI-10	41,670	XVI-XX	9.5	530	RRR/2	1326	2367
ZI-11	46,560	XVII-XX	13.5	590	RRR/1	1476	2368
ZI-12	49,350	XVIII-XX	13.9	625	RRR/1	1564	2375

CLOAKING DEVICE TYPES

Cloaking Device Type	Appropriate Ship Classes	Power to Energize	Control Computer Requirement	Availability	Cost (MCr)	Date Entering Service
KCA	II-III	12	ZD-2	III/09	18	2268
KCB	IV-V	22	ZD-3	III/07	23	2268
KCC	VI-IX	32	ZD-5	III/03	41	2268
KCD	X-XI	48	ZD-6	III/01	67	2268
KCE	XII-XV	72	ZD-8	III/01	110	2289
KCF	XVI-XVII	100	ZD-9	III/01	205	2303
KCG	XVIII-XIX	180	ZD-17	III/01	457	2335
KCH	XX	230	ZD-18	III/01	930	2347





KLINGON EMPIRE



WARP ENGINE TYPES Single Nacelle Use

Warp Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Stress Column (Eng/SS)	SS Requirement	Availability	Cost (MCr)	Year
KWA-1	1,800	5	ZD-1	O/P	0.1	LLL/51	2.4	2225
KWA-2	2,500	10	ZD-2	P/Q	0.2	RRR/48	3.7	2238
KWB-1	6,000	8	ZD-2	M/O	0.5	LLL/45	6	2228
KWB-2	7,000	12	ZD-2	O/P	0.6	RRR/40	7.7	2237
KWB-3	10,000	13	ZD-2	P/P	1.1	RRR/36	10.5	2238
KWC-1	25,000	14	ZD-3	K/N	2	RRR/39	50	2241
KWC-2	25,000	18	ZD-3	L/N	2	RRR/35	53	2252
KWC-3	25,000	22	ZD-4	L/M	2	RRR/29	65	2253
KWD-1	30,000	16	ZD-3	K/M	2.4	RRR/33	120	2241
KWD-2	30,000	10	ZD-2	L/M	2.4	RRR/26	115	2246
KWE-1	40,000	9	ZD-2	H/L	3.2	LLL/33	165	2238
KWE-2	45,000	16	ZD-3	I/M	3.2	RRR/25	237	2241
KWE-3	45,000	20	ZD-4	J/M	3.2	RRR/18	290	2253
KWF-1	35,000	15	ZD-3	H/I	2.8	RRR/21	215	2241
KWF-2	35,000	17	ZD-4	H/I	2.8	RRR/20	243	2287
KWG-1	65,000	26	ZD-5	I/L	4.1	RRR/16	370	2274
KWG-2	65,000	30	ZD-6	I/M	4.1	III/15	426	2290
KWG-3	65,000	40	ZD-7	J/M	4.1	III/14	569	2328
KWH-1	18,000	14	ZD-2	J/K	0.8	RRR/41	41	2289
KWH-2	18,000	18	ZD-2	J/K	0.8	RRR/39	52	2310
KWI-1	55,000	41	ZD-6	K/L	6.3	III/28	648	2336
KWI-2	55,000	42	ZD-6	K/L	6.3	III/27	664	2339
KWI-3	55,000	44	ZD-6	K/M	6.3	III/26	696	2343
KWJ-1	62,500	46	ZD-6	J/K	6.9	III/25	654	2338
KWJ-2	62,500	50	ZD-7	J/K	6.9	III/23	710	2340
KWK-1	70,000	55	ZD-7	K/L	7.9	III/21	765	2341
KWK-2	70,000	56	ZD-7	K/L	7.9	III/20	779	2345
KWK-3	70,000	58	ZD-7	K/L	7.9	III/19	807	2348
KWL-1	42,750	35	ZD-8	H/J	3.6	III/31	518	2342
KWL-2	42,750	38	ZD-8	H/J	3.6	III/29	563	2351
KWM-1	82,500	60	ZD-7	I/J	8.3	III/18	846	2350
KWM-2	82,500	62	ZD-7	I/J	8.3	III/17	875	2352
KWM-3	82,500	64	ZD-7	I/J	8.3	III/16	903	2354
KWM-4	82,500	66	ZD-7	I/J	8.3	III/15	931	2360
KWN-1	41,250	34	ZD-6	H/I	5.3	III/31	466	2355
KWN-2	41,250	35	ZD-6	H/I	5.3	III/31	480	2356
KWN-3	41,250	37	ZD-6	H/I	5.3	III/30	507	2359
KWO-1	85,000	68	ZD-7	J/K	9.5	III/12	966	2362
KWO-2	85,000	72	ZD-7	J/K	9.5	III/5	1,023	2364
KWO-3	85,000	74	ZD-7	K/L	9.5	III/4	1,051	2368
KWP-1	77,500	65	ZD-7	H/I	10.4	III/6	923	2365
KWP-2	77,500	77	ZD-7	H/I	10.4	III/3	1,094	2367
KWQ-1	130,000	85	ZD-9	H/J	13.3	III/2	1,207	2368
KWQ-2	130,000	96	ZD-9	H/J	13.3	III/1	1,364	2370





KLINGON EMPIRE



WARP ENGINE TYPES Tandem Nacelle Use

Warp Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Stress Column (Eng/SS)	SS Requirement	Availability	Cost (MCr)	Year
KWA-1	3,600	5	ZD-1	O/P	0.1	LLL/51	2.4	2225
KWA-2	5,000	10	ZD-2	P/Q	0.2	RRR/48	3.7	2238
KWB-1	12,000	8	ZD-2	M/O	0.5	LLL/45	6	2228
KWB-2	14,000	12	ZD-2	O/P	0.6	RRR/40	7.7	2237
KWB-3	20,000	13	ZD-2	P/P	1.1	RRR/36	10.5	2238
KWC-1	50,000	14	ZD-3	K/N	2	RRR/39	50	2241
KWC-2	50,000	18	ZD-3	L/N	2	RRR/35	53	2252
KWC-3	50,000	22	ZD-4	L/M	2	RRR/29	65	2253
KWD-1	60,000	16	ZD-3	K/M	2.4	RRR/33	120	2241
KWD-2	60,000	10	ZD-2	L/M	2.4	RRR/26	115	2246
KWE-1	80,000	9	ZD-2	H/L	3.2	LLL/33	165	2238
KWE-2	90,000	16	ZD-3	I/M	3.2	RRR/25	237	2241
KWE-3	90,000	20	ZD-4	J/M	3.2	RRR/18	290	2253
KWF-1	70,000	15	ZD-3	H/I	2.8	RRR/21	215	2241
KWF-2	70,000	17	ZD-4	H/I	2.8	RRR/20	243	2287
KWG-1	130,000	26	ZD-5	I/L	4.1	RRR/16	370	2274
KWG-2	130,000	30	ZD-6	I/M	4.1	III/15	426	2290
KWG-3	130,000	40	ZD-7	J/M	4.1	III/14	569	2328
KWH-1	36,000	14	ZD-2	J/K	0.8	RRR/41	41	2289
KWH-2	36,000	18	ZD-2	J/K	0.8	RRR/39	52	2310
KWI-1	110,000	41	ZD-6	K/L	6.3	III/28	648	2336
KWI-2	110,000	42	ZD-6	K/L	6.3	III/27	664	2339
KWI-3	110,000	44	ZD-6	K/M	6.3	III/26	696	2343
KWJ-1	125,000	46	ZD-6	J/K	6.9	III/25	654	2338
KWJ-2	125,000	50	ZD-7	J/K	6.9	III/23	710	2340
KWK-1	140,000	55	ZD-7	K/L	7.9	III/21	765	2341
KWK-2	140,000	56	ZD-7	K/L	7.9	III/20	779	2345
KWK-3	140,000	58	ZD-7	K/L	7.9	III/19	807	2348
KWL-1	85,500	35	ZD-8	H/J	3.6	III/31	518	2342
KWL-2	85,500	38	ZD-8	H/J	3.6	III/29	563	2351
KWM-1	165,000	60	ZD-7	I/J	8.3	III/18	846	2350
KWM-2	165,000	62	ZD-7	I/J	8.3	III/17	875	2352
KWM-3	165,000	64	ZD-7	I/J	8.3	III/16	903	2354
KWM-4	165,000	66	ZD-7	I/J	8.3	III/15	931	2360
KWN-1	82,500	34	ZD-6	H/I	5.3	III/31	466	2355
KWN-2	82,500	35	ZD-6	H/I	5.3	III/31	480	2356
KWN-3	82,500	37	ZD-6	H/I	5.3	III/30	507	2359
KWO-1	170,000	68	ZD-7	J/K	9.5	III/12	966	2362
KWO-2	170,000	72	ZD-7	J/K	9.5	III/5	1,023	2364
KWO-3	170,000	74	ZD-7	K/L	9.5	III/4	1,051	2368
KWP-1	155,000	65	ZD-7	H/I	10.4	III/6	923	2365
KWP-2	155,000	77	ZD-7	H/I	10.4	III/3	1,094	2367
KWQ-1	260,000	85	ZD-9	H/J	13.3	III/2	1,207	2368
KWQ-2	260,000	96	ZD-9	H/J	13.3	III/1	1,364	2370





KLINGON EMPIRE



MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

Ship Class	Movement Point Ratios														
	1/3	1/2	1/1		2/1		3/1			4/1			5/1		6/1
I	KWA-1 21.5 6/7	KWA-1 14 3/7 KWA-2 28.5 6/7	KWA-1 7 5/6 KWA-2 14 6/7												
II			KWA-1 7 5/6 KWA-2 14 6/7 KWB-1 11.5 6/7	KWB-2 17 6/7 KWB-3 18.5 7/8											
III			KWH-1 20 7/9		KWB-1 6 5/6 KWB-2 8.5 5/6	KWB-3 9 6/7 KWH-2 13 7/9	KWB-1 4 5/6								
IV			KWH-1 20 7/9		KWB-2 8.5 5/6 KWB-3 9 6/7 KWC-1 10 7/8 KWC-2 13 7/8	KWF-2 12 8/9 KWH-1 10 7/8 KWH-2 13 7/9	KWC-1 6.5 6/7			KWD-1 5.5 5/7					
V			KWH-1 20 7/9		KWC-2 13 7/8 KWC-3 15.5 7/8 KWF-2 12 8/9 KWL-1 25 7/9	KWN-1 24 8/9 KWN-2 25 8/9 KWH-1 10 7/8 KWH-2 13 7/9	KWB-3 6 5/6 KWC-1 6.5 6/7 KWC-2 8.5 6/7 KWC-3 10 6/7	KWE-3 9 7/8 KWF-1 7 8/9 KWI-1 19.5 7/8 KWI-2 20 7/8	KWI-3 21 7/8 KWL-2 18 7/9 KWN-2 16.5 7/9 KWN-3 17.5 8/9	KWD-1 5.5 5/7 KWE-1 3 5/7					
VI					KWF-2 12 8/9 KWL-1 25 7/9		KWC-1 6.5 6/7 KWC-2 8.5 6/7 KWC-3 10 6/7 KWE-3 9 7/8 KWF-1 7 8/9 KWG-2 14 8/9	KWG-3 19 8/9 KWI-1 19.5 7/8 KWI-2 20 7/8 KWI-3 21 7/8 KWJ-1 21.5 7/8 KWJ-2 24 7/8	KWL-2 18 7/9 KWN-1 16 7/9 KWN-2 16.5 7/9 KWN-3 17.5 8/9	KWE-2 5.5 6/7 KWI-2 15 6/8 KWK-1 19.5 7/8 KWK-2 20 7/8			KWD-1 4.5 5/6 KWD-2 3 5/7 KWE-1 2.5 5/6 KWK-3 16.5 7/8		
VII					KWL-1 25 7/9		KWF-2 8 7/9 KWG-2 14 8/9 KWG-3 19 8/9 KWH-1 6.5 6/8 KWH-2 8.5 7/8	KWI-1 19.5 7/8 KWI-2 20 7/8 KWI-3 21 7/8 KWJ-1 21.5 7/8 KWJ-2 24 7/8	KWL-2 18 7/9 KWN-1 16 7/9 KWN-2 16.5 7/9 KWN-3 17.5 8/9	KWC-1 5 6/7 KWC-2 6.5 5/6 KWC-3 8 5/6 KWE-2 5.5 6/7 KWE-3 7 6/7	KWF-1 5 7/8 KWI-1 14.5 6/8 KWI-2 15 6/8 KWK-1 19.5 7/8 KWK-2 20 7/8	KWM-1 21.5 6/8 KWM-2 22 6/8 KWM-3 23 7/8	KWD-2 3 5/7 KWE-1 2.5 5/6 KWE-2 4.5 5/6 KWK-3 16.5 7/8 KWM-4 19 7/8		KWD-2 2 5/6 KWE-1 2 4/6
VIII					KWL-1 25 7/9		KWF-2 8 7/9 KWG-2 14 8/9 KWI-1 19.5 7/8 KWI-2 20 7/8 KWJ-1 21.5 7/8	KWL-1 16.5 7/8 KWL-2 18 7/9 KWN-1 16 7/9 KWN-2 16.5 7/9 KWN-3 17.5 8/9		KWE-3 7 6/7 KWF-1 5 7/8 KWG-1 9 7/8 KWG-3 14 7/9 KWI-1 14.5 6/8	KWI-2 15 6/8 KWI-3 16 6/8 KWJ-2 18 6/8 KWK-1 19.5 7/8 KWK-2 20 7/8	KWM-1 21.5 6/8 KWM-2 22 6/8 KWM-3 23 7/8 KWN-3 13 7/9	KWE-2 4.5 5/6 KWK-3 16.5 7/8 KWO-1 19.5 7/8 KWO-2 20.5 7/9	KWO-3 21 7/9 KWP-2 22 7/9	KWD-2 2 5/6 KWE-1 2 4/6





KLINGON EMPIRE



MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

Movement Point Ratios																		
Ship Class	3/1		4/1			5/1			6/1			7/1			8/1		9/1	
IX	KWG-2 14 8/9 KWI-1 19.5 7/8 KWJ-1 21.5 7/8 KWL-1 16.5 7/8 KWN-1 16 7/9 KWN-2 16.5 7/9	KWN-3 17.5 8/9	KWE-3 7 6/7 KWF-2 6 7/8 KWG-1 9 7/8 KWG-2 11 7/9 KWG-3 14 7/9 KWI-1 14.5 6/8 KWI-2 15 6/8 KWI-3 16 6/8	KWI-2 15 6/8 KWI-3 16 6/8 KWJ-2 18 6/8 KWK-1 19.5 7/8 KWK-2 20 7/8 KWL-2 13.5 7/8	KWM-1 21.5 6/8 KWM-2 22 6/8 KWM-3 23 7/8 KWN-1 19.5 7/9 KWN-2 13 7/9	KWE-2 4.5 5/6 KWK-3 16.5 7/8 KWM-4 19 7/8 KWO-1 19.5 7/8 KWO-2 20.5 7/9 KWP-1 18.5 7/9	KWP-2 22 7/9		KWE-1 2 4/6 KWE-2 4 5/6 KWO-3 17.5 7/8									
X	KWJ-1 21.5 7/8 KWL-1 16.5 7/8 KWN-1 16 7/9 KWN-2 16.5 7/9		KWG-2 11 7/9 KWG-3 14 7/9 KWI-1 14.5 6/8 KWI-2 15 6/8 KWI-3 16 6/8	KWJ-1 16.5 6/8 KWJ-2 18 6/8 KWK-1 19.5 7/8 KWK-2 20 7/8 KWL-2 13.5 7/8	KWM-1 21.5 6/8 KWM-2 23 6/7 KWN-1 12 7/8 KWN-2 12.5 7/8 KWN-3 13 7/9	KWE-3 5.5 5/6 KWG-1 7.5 6/7 KWG-3 11.5 7/8 KWK-3 16.5 7/8 KWM-2 18 6/7	KWM-4 19 7/8 KWO-1 19.5 7/8 KWP-1 18.5 7/9 KWP-2 22 7/9		KWE-1 2 4/6 KWE-2 4 5/6 KWO-2 17 7/8 KWO-3 17.5 7/8 KWQ-1 20 8/9	KWQ-2 23 8/9								
XI	KWL-1 16.5 7/8		KWG-2 11 7/9 KWI-1 14.5 6/8 KWI-2 15 6/8 KWI-3 16 6/8	KWJ-1 16.5 6/8 KWJ-2 18 6/8 KWK-1 19.5 7/8 KWK-2 20 7/8 KWL-2 13.5 7/8	KWM-1 21.5 6/8 KWN-1 12 6/8 KWN-2 12.5 7/8 KWN-3 13 7/9	KWG-3 11.5 7/8 KWK-1 16 6/8 KWK-2 16 6/8 KWM-2 18 6/7	KWM-3 18 6/8 KWM-4 19 7/8		KWE-1 2 4/6 KWE-2 4 5/6 KWG-1 6 5/6 KWK-3 14 6/8	KWM-4 16 6/8 KWO-1 16 6/8 KWO-2 17 7/8 KWP-1 15.5 7/8	KWP-2 18.5 7/8 KWQ-1 20 8/9 KWQ-2 23 8/9	KWE-1 2 4/5 KWO-3 15 6/8						
XII			KWG-2 11 7/9 KWI-2 15 6/8 KWJ-1 16.5 6/8 KWM-1 21.5 6/8			KWG-3 11.5 7/8 KWI-1 12 6/7 KWI-2 12 6/7 KWI-3 12.5 6/7	KWJ-2 14 6/7 KWK-1 16 6/8 KWK-2 16 6/8 KWM-2 18 6/7	KWM-3 18 6/8	KWE-2 4 5/6 KWG-1 6 5/6 KWG-3 9.5 6/8 KWK-3 14 6/8	KWM-4 16 6/8 KWO-1 16 6/8 KWP-1 15.5 7/8 KWP-2 18.5 7/8	KWQ-1 20 8/9 KWQ-2 23 8/9	KWE-1 2 4/5 KWO-2 14.5 6/8 KWO-3 15 6/8						
XIII						KWG-2 8.5 7/8 KWI-1 12 6/7 KWI-2 12 6/7 KWI-3 12.5 6/7	KWJ-1 13 6/7 KWJ-2 14 6/7 KWK-1 16 6/8 KWK-2 16 6/8	KWM-1 17 6/7 KWM-3 18 6/8	KWG-3 9.5 6/8 KWK-3 14 6/8 KWM-2 15 5/7 KWM-4 16 6/8	KWO-1 16 6/8 KWP-1 15.5 7/8 KWP-2 18.5 7/8		KWE-1 2 4/5 KWG-1 5 4/5 KWO-2 14.5 6/8 KWO-3 15 6/8	KWQ-1 17.5 7/9 KWQ-2 19.5 7/9		KWO-3 13 6/7			
XIV						KWJ-1 13 6/7 KWJ-2 14 6/7 KWK-1 16 6/8	KWK-2 16 6/8 KWM-1 17 6/7		KWG-2 7 6/8 KWK-3 14 6/8 KWM-2 15 5/7	KWM-3 15 6/7 KWO-1 16 6/8		KWE-1 2 4/5 KWG-1 5 4/5 KWG-3 8 6/7	KWO-2 14.5 6/8 KWP-1 13 6/8 KWP-2 16 6/8	KWQ-1 17.5 7/9 KWQ-2 19.5 7/9	KWO-3 13 6/7			
XV						KWM-1 17 6/7			KWM-2 15 5/7 KWM-3 15 6/7	KWM-4 16 6/8		KWE-1 2 4/5 KWG-1 5 4/5	KWO-1 14 6/7 KWP-1 13 6/8 KWP-2 16 6/8	KWP-2 16 6/8 KWQ-2 19.5 7/9	KWO-2 13 6/7 KWO-3 13 6/7	KWQ-1 15 7/8		
XVI												KWE-1 2 4/5	KWG-1 5 4/5		KWQ-1 15 7/8	KWQ-2 17 7/8		
XVII												KWE-1 2 4/5	KWG-1 5 4/5		KWQ-1 15 7/8	KWQ-2 17 7/8		
XVIII												KWE-1 2 4/5	KWG-1 5 4/5		KWQ-2 17 7/8		KWQ-1 13.5 6/8	
XIX																	KWQ-1 13.5 6/8	KWQ-2 15 6/8



KLINGON EMPIRE



MOVEMENT POINT RATIO TABLE: TANDEM WARP ENGINE

Ship Class	Movement Point Ratios																	
	1/2	1/1	2/1	3/1		4/1			5/1		6/1			7/1	8/1		9/1	10/1
II	KWA-1 28.5 7/8	KWA-1 14 7/8 KWA-2 28.5 7/8	KWA-1 7 6/7 KWA-2 14 7/8	KWA-2 9 6/7														
III		KWB-1 26 7/8	KWA-1 7 6/7 KWA-2 14 7/8 KWB-1 13 6/7	KWA-2 9 6/7 KWB-1 8.5 5/6														
IV		KWB-1 26 7/8	KWB-1 13 6/7 KWB-2 17 8/9 KWB-3 18.5 8/9 KWH-1 20 8/9	KWB-1 8.5 5/6 KWB-2 11.5 7/8 KWB-3 12.5 7/8 KWH-1 13.5 7/9	KWH-2 17 8/9	KWH-2 13 7/9												
V			KWH-1 20 8/9	KWB-1 8.5 5/6 KWB-2 11.5 7/8 KWB-3 12.5 7/8	KWH-1 13.5 7/9 KWH-2 17 8/9	KWB-1 6.5 4/5 KWH-1 10 7/8 KWH-2 13 7/9			KWH-2 10 7/8									
VI			KWH-1 20 8/9	KWB-2 11.5 7/8 KWB-3 12.5 7/8 KWC-1 13.5 7/8	KWH-1 13.5 7/9 KWH-2 17 8/9	KWB-2 8.5 6/7 KWB-3 9 6/7 KWC-2 13 7/8	KWH-2 13 7/9		KWH-2 10 7/8									
VII				KWC-1 13.5 7/8 KWC-2 17 8/9 KWC-3 21.5 8/9	KWF-2 17 8/9 KWH-1 13.5 7/9 KWH-2 17 8/9	KWB-2 8.5 6/7 KWB-3 9 6/7 KWC-1 10 7/8	KWC-2 13 7/8 KWD-1 13 6/8 KWH-1 10 7/8	KWH-2 13 7/9	KWH-2 10 7/8									
VIII				KWC-2 17 8/9 KWC-3 21.5 8/9 KWE-1 10 6/8 KWE-3 19 8/9	KWF-1 15 8/9 KWF-2 17 8/9 KWH-1 13.5 7/9	KWB-2 8.5 6/7 KWB-3 9 6/7 KWC-1 10 7/8 KWC-2 13 7/8	KWC-3 16.5 7/8 KWD-1 13 6/8 KWD-2 10 8.5 7/8 KWE-1 8 5/7	KWE-2 13 7/8 KWF-2 13 7/9 KWH-1 10 7/8 KWH-2 13 7/9	KWH-2 10 7/8 KWL-1 20 7/9 KWN-1 19.5 8/9 KWN-2 20 8/9	KWL-2 18 7/9 KWN-3 17.5 8/9								
IX				KWC-2 17 8/9 KWE-1 10 6/8 KWE-3 19 8/9 KWF-1 15 8/9	KWF-2 17 8/9	KWC-2 13 7/8 KWC-3 16.5 7/8 KWD-1 13 6/8 KWD-2 8.5 6/8	KWE-1 8 5/7 KWE-2 13 7/8 KWE-3 14 7/8 KWF-1 11.5 7/8 KWF-2 13 7/9	KWF-2 13 7/9 KWH-1 10 7/8	KWB-3 7.5 5/6 KWD-2 7 6/7 KWE-2 10 6/7 KWH-2 10 7/8	KWL-1 20 7/9 KWN-1 19.5 8/9 KWN-2 20 8/9	KWD-2 6 4/6 KWI-1 19.5 6/8 KWI-2 20 6/8 KWL-2 18 7/9	KWN-3 17.5 8/9	KWI-3 18 6/8 KWJ-1 19 7/8	KWJ-2 18 7/8				
X				KWE-3 19 8/9		KWC-2 13 7/8 KWD-1 13 6/8 KWD-2 8.5 6/8 KWE-1 8 5/7	KWE-2 13 7/8 KWE-3 14 7/8 KWF-1 11.5 7/8 KWF-2 13 7/9		KWC-2 10 6/7 KWC-3 13 6/7 KWD-1 10 5/7 KWD-2 7 6/7	KWE-2 10 6/7 KWL-1 20 7/9 KWN-1 19.5 8/9	KWB-3 6 4/5 KWE-2 8.5 6/7 KWI-1 19.5 6/8 KWI-2 20 6/8	KWL-2 18 7/9 KWN-2 16.5 7/9 KWN-3 17.5 8/9	KWI-3 18 6/8 KWJ-1 19 7/8	KWJ-2 18 7/8 KWK-1 18.5 7/8 KWK-2 20 7/8		KWK-3 18.5 7/8		
XI						KWF-2 13 7/9			KWC-2 10 6/7 KWC-3 13 6/7 KWD-1 10 5/7 KWD-2 7 6/7	KWE-1 6 5/7 KWE-2 10 6/7 KWI-1 19.5 7/8 KWL-1 20 7/9	KWD-2 6 4/6 KWE-2 8.5 6/7 KWF-2 10 6/8 KWI-1 19.5 7/8 KWI-2 20 6/8	KWL-1 16.5 7/8 KWL-2 18 7/9 KWN-1 16 7/9 KWN-2 16.5 7/9	KWI-3 18 6/8 KWJ-1 19 7/8 KWL-2 15.5 7/8 KWN-3 15 7/9	KWJ-2 16.5 6/8 KWJ-2 18 7/8 KWK-1 19.5 7/8 KWK-2 20 7/8	KWM-1 21.5 6/8	KWK-2 18 6/8 KWK-3 18.5 7/8 KWM-2 19.5 6/8 KWM-3 20.5 6/8	KWM-4 19 6/8	



MOVEMENT POINT RATIO TABLE: TANDEM WARP ENGINE

Ship Class	Movement Point Ratios																	
	5/1		6/1			7/1			8/1		9/1		10/1			11/1	12/1	13/1
XII	KWD-1	KWF-2	KWD-2	KWG-2	KWL-2	KWE-2	KWN-3		KWJ-1		KWK-1	KWO-1	KWK-3			KWO-3		
	10	10	6	15	18	7.5	15		16.5		17.5	21.5	16.5			19		
	5/7	7/8	5/7	7/8	7/9	5/6	7/9		6/8		6/8	7/9	6/8			7/8		
	KWE-1	KWG-1	KWE-1	KWG-3	KWN-1	KWI-3			KWJ-2		KWK-2	KWP-1	KWM-4					
	6	16	5	19	16	18			18		18	20.5	19					
	5/7	6/8	5/6	7/9	7/9	6/8			7/8		6/8	7/8	6/8					
	KWE-2	KWG-2	KWE-2	KWI-1	KWN-2	KWJ-1			KWK-1		KWK-3		KWO-2					
	10	18	8.5	19.5	16.5	19			19.5		18.5		20.5					
	6/7	7/9	6/7	6/8	7/9	7/8			7/8		7/8		7/8					
	KWE-3		KWF-1	KWI-2		KWL-1			KWK-2		KWM-2		KWP-1					
	11.5		7.5	20		14			20		19.5		18.5					
	6/7		5/6	6/8		6/8			7/8		6/8		6/8					
	KWF-1		KWF-2	KWL-1		KWL-2			KWM-1		KWM-3							
	9		8.5	16.5		15.5			21.5		20.5							
	6/7		6/8	7/8		7/8			6/8		6/8							
XIII	KWE-2		KWD-1	KWG-1	KWL-2	KWD-2	KWG-2	KWL-2	KWJ-1		KWJ-2	KWO-1	KWK-3			KWO-3		
	10		8.5	13.5	18	5	13	15.5	16.5		16	21.5	16.5			19		
	6/7		4/5	6/7	7/9	4/5	6/8	7/8	6/8		6/8	7/9	6/8			7/8		
	KWE-3		KWD-2	KWG-2	KWN-1	KWE-1	KWG-3	KWN-1	KWJ-2		KWK-1	KWP-1	KWM-4			KWP-2		
	11.5		6	15	16	4.5	16.5	14	18		17.5	20.5	19			20		
	6/7		5/7	7/8	7/9	4/5	7/8	4/7	7/8		6/8	7/8	6/8			7/8		
	KWF-2		KWE-1	KWG-3		KWE-2	KWI-1	KWN-2	KWK-1		KWK-2		KWO-2					
	10		5	19		7.5	17	14	19.5		18		20.5					
	7/8		5/6	7/9		5/6	4/6	7/8	7/8		6/8		7/8					
	KWG-1		KWE-2	KWI-1		KWF-1	KWI-2	KWN-3	KWK-2		KWK-3		KWP-1					
	16		8.5	19.5		6.5	17	15	20		18.5		18.5					
	6/8		6/7	6/8		4/5	4/6	7/9	7/8		7/8		6/8					
XIV	KWE-3		KWD-1	KWG-2		KWD-2	KWG-1	KWL-1	KWJ-1		KWJ-2	KWO-1	KWK-1			KWK-3	KWQ-1	KWQ-1
	11.5		8.5	15		5	11.5	14	16.5		16	21.5	16			15	20	18.5
	6/7		4/5	7/8		5/6	5/6	6/8	6/8		6/8	7/9	6/7			6/7	6/8	6/7
	KWG-1		KWE-1	KWG-3		KWE-1	KWG-2	KWL-2	KWJ-2		KWK-1	KWP-1	KWK-2			KWO-2		KWQ-2
	16		5	19		4.5	13	15.5	18		17.5	20.5	16			19		21
	6/8		5/6	7/9		4/5	6/8	7/8	7/8		6/8	7/8	6/7			7/8		6/8
			KWE-3	KWI-1		KWE-2	KWG-3	KWN-1	KWL-1		KWK-2		KWK-3					
			9.5	19.5		7.5	16.5	14	12.5		18		16.5					
			5/6	6/8		5/6	7/8	4/7	6/7		6/8		6/8					
			KWF-1	KWI-2		KWE-3	KWI-1	KWN-2	KWL-2		KWM-1		KWM-4					
			7.5	20		8	17	14	13.5		19		19					
			5/6	6/8		4/5	4/6	7/8	6/8		6/8		6/8					
XV			KWE-1			KWD-2	KWG-1	KWL-1	KWI-3	KWN-3	KWJ-1	KWM-2	KWK-1	KWO-1		KWK-3	KWQ-1	KWQ-1
			5			5	11.5	14	16	13	14.5	19.5	16	19.5		15	20	18.5
			5/6			5/6	5/6	6/8	6/7	7/8	6/7	6/8	6/7	7/8		6/7	6/8	6/7
			KWE-3			KWE-1	KWG-2	KWN-1	KWJ-1		KWJ-2	KWM-3	KWK-2	KWO-2		KWO-2		KWQ-2
			9.5			4.5	13	14	16.5		16	20.5	16	20.5		19		21
			5/6			4/5	6/8	7/8	6/8		6/8	6/8	6/7	7/8		6/8		6/8
			KWF-2			KWE-2	KWG-3	KWN-2	KWL-1		KWK-1	KWP-1	KWK-3	KWP-1		KWO-3		
			8.5			7.5	16.5	14	12.5		17.5	20.5	16.5	18.5		19		
			6/8			5/6	7/8	7/8	6/7		6/8	7/8	6/8	6/8		7/8		
			KWG-1			KWE-3	KWI-1		KWL-2		KWK-2		KWM-3			KWP-2		
			13.5			8	17		13.5		18		18			20		
			6/7			4/5	6/7		6/8		6/8		6/7			7/8		
			KWG-2			KWF-2	KWI-2		KWM-1		KWM-1		KWM-4					
XVI						7.5	17		21.5		19							
						4/6	6/7		6/8		6/7		6/8					
			KWE-3			KWD-2	KWG-2	KWN-1	KWI-3		KWJ-1	KWL-2	KWJ-1	KWK-3	KWO-1	KWK-3	KWP-2	KWQ-1
			9.5			5	13	14	16		14.5	12	13	16.5	19.5	15	18.5	18.5
			5/6			5/6	6/8	7/8	6/7		6/7	6/7	5/7	6/8	7/8	6/7	6/8	6/7
			KWG-1			KWE-1	KWG-3	KWN-2	KWL-1		KWK-1	KWM-1	KWJ-2	KWM-2	KWP-1	KWO-2		KWQ-2
			13.5			8	16.5	14	12.5		17.5	19	14	18	18.5	19		21
			6/7			4/5	7/8	7/8	6/7		6/8	6/7	6/7	6/7	6/8	6/8		6/8
			KWG-2			KWE-3	KWI-1		KWL-2		KWK-2		KWK-1	KWM-3	KWO-3	KWO-3		
			15			8	17		13.5		18		16	18	19	19		
			7/8			4/5	6/7		6/8		6/8		6/7	6/7	7/8	7/8		
						KWG-1	KWI-2		KWN-3		KWL-1		KWK-2	KWM-4	KWP-1	KWP-1		
						11.5	17		7/8		11		KWK-2	KWM-4				
						5/6	6/7				5/7		6/7	6/8	6/7	6/7		





MOVEMENT POINT RATIO TABLE: TANDEM WARP ENGINE

Movement Point Ratios

Ship Class	6/1	7/1		8/1		9/1	10/1			11/1		12/1		13/1	14/1
XVII	KWG-2 15 7/8	KWE-1 4.5 4/5 KWG-1 11.5 5/6 KWG-2 13 6/8	KWG-3 16.5 7/8 KWN-1 14 7/8	KWL-1 12.5 6/7 KWN-2 12.5 6/8 KWN-3 13 7/8		KWJ-1 14.5 6/7 KWL-2 12 6/7 KWM-1 19 6/7	KWJ-1 13 5/7 KWJ-2 14 6/7 KWK-1 16 6/7	KWK-2 16 6/7 KWM-2 18 6/7 KWM-3 18 6/7	KWM-4 19 6/8	KWK-3 15 6/7 KWO-1 17.5 6/8 KWO-2 19 6/8	KWO-3 19 7/8 KWP-1 17 6/7		KWO-3 17.5 6/8 KWP-1 15.5 5/7 KWP-2 18.5 6/8	KWQ-1 18.5 6/7 KWQ-2 21 6/8	
XVIII		KWE-1 4.5 4/5 KWG-1 11.5 5/6 KWG-2 13 6/8		KWG-3 14 6/8 KWL-1 12.5 6/7 KWN-1 12 6/8	KWN-2 12.5 6/8 KWN-3 13 7/8	KWL-2 12 6/7 KWM-1 19 6/7	KWJ-1 13 5/7 KWJ-2 14 6/7 KWK-1 16 6/7	KWK-2 16 6/7 KWM-2 18 6/7 KWM-3 18 6/7	KWM-4 19 6/8	KWK-3 15 6/7 KWO-1 17.5 6/8 KWO-2 19 6/8		KWO-1 16 6/7 KWO-2 17 6/7 KWO-3 17.5 6/8	KWP-1 15.5 5/7	KWP-2 17 6/7 KWQ-1 18.5 6/7	KWQ-2 19.5 6/7
XIX				KWG-2 11.5 6/7		KWG-3 12.5 6/7									
XX							KWG-3 11.5 5/7								





KLINGON EMPIRE



IMPULSE ENGINE TYPES

Impulse Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Ship Classes Powered	SS Requirement	Availability	Cost (MCr)	Year
KIA-1	213	1	ZD-1	I-I	0.1	RRI/48	2	2225
KIA-2	213	2	ZD-1	II-II	0.1	RRI/42	3	2225
KIA-3	213	3	ZD-1	II-III	0.1	RRI/39	4	2225
KIB-1	325	3	ZD-1	II-V	0.1	RRI/43	4	2228
KIB-2	325	2	ZD-1	V-X	0.1	RRI/40	4	2228
KIC-1	568	2	ZD-1	II-V	0.1	RRI/37	4	2232
KIC-2	568	4	ZD-1	V-X	0.1	RRI/35	5	2232
KIC-3	568	5	ZD-2	IX-XII	0.1	RRI/32	7	2232
KIC-4	568	8	ZD-2	X-XVIII	0.1	RRI/28	10	2232
KID-1	715	6	ZD-2	V-VII	0.1	RRI/31	8	2244
KID-2	715	4	ZD-1	VIII-XII	0.1	RRI/27	6	2244
KIE-1	850	6	ZD-1	X-XIII	0.1	RRI/24	9	2250
KIE-2	850	12	ZD-2	VIII-X	0.1	RRI/18	14	2250
KIE-3	850	18	ZD-3	VI-VIII	0.1	RRI/12	18	2250
KIF-1	960	17	ZD-3	XII-XX	0.1	RRI/18	17	2271
KIF-2	960	23	ZD-4	VIII-XIX	0.1	RRI/7	28	2271
KIG-1	1,130	28	ZD-5	XII-XVII	0.1	RRI/5	34	2290
KIG-2	1,130	34	ZD-5	XIII-XVIII	0.1	RRI/3	41	2303
KIH-1	1,225	36	ZD-6	XIV-XIX	0.1	RRR/2	43	2305
KIH-2	1,225	38	ZD-7	XV-XX	0.1	RRR/1	46	2320
KIJ-1	1,550	40	ZD-8	XIII-XVIII	0.1	RRR/1	48	2325
KIJ-2	1,550	42	ZD-7	XV-XIX	0.1	RRR/1	51	2332
KIJ-3	1,550	44	ZD-8	XVI-XX	0.1	RRR/1	56	2338
KIK-1	975	26	ZD-5	IX-XVII	0.1	RRI/7	32	2331
KIK-2	975	30	ZD-6	XI-XVIII	0.1	RRI/5	38	2336
KIK-3	975	32	ZD-6	XII-XVIII	0.1	RRI/4	40	2341
KIL-1	1,300	45	ZD-7	XIV-XVII	0.1	RRR/2	58	2335
KIL-2	1,300	48	ZD-8	XVI-XIX	0.1	RRR/1	63	2338
KIM-1	1,050	31	ZD-6	XII-XVIII	0.1	RRI/5	39	2340
KIM-2	1,050	34	ZD-7	XIII-XIX	0.1	RRI/3	43	2342
KIM-3	1,050	25	ZD-7	VIII-XV	0.1	RRI/8	29	2346
KIN-1	1,600	46	ZD-9	XV-XIX	0.1	RRR/1	60	2351
KIN-2	1,600	49	ZD-9	XVII-XX	0.1	RRR/1	67	2355
KIN-3	1,600	55	ZD-9	XVIII-XX	0.1	RRR/1	73	2358
KIO-1	2,250	52	ZD-9	XVI-XIX	0.1	RRR/1	71	2362
KIO-2	2,250	56	ZD-9	XVII-XX	0.1	RRR/1	78	2364
KIO-3	2,250	58	ZD-9	XVIII-XX	0.1	RRR/1	87	2368





KLINGON EMPIRE



MOVEMENT POINT RATIO TABLE: IMPULSE ENGINE

Movement Point Ratios																			
Ship Class	1/3	1/2	1/1	2/1		3/1		4/1		5/1		6/1		7/1		8/1	9/1	10/1	11/1
I	KIA-1 4	KIA-1 3	KIA-1 1.5																
II		KIA-2 5.5 KIA-3 8.5 KIB-1 8.5 KIC-1 5.5	KIA-2 3 KIA-3 4 KIB-1 4 KIC-1 3	KIA-2 1.5 KIA-3 2 KIB-1 2 KIC-1 1.5	KIG-2 24	KIA-3 1.5 KIB-1 1.5 KIC-1 1 KIG-2 16													
III			KIA-3 4 KIB-1 4 KIC-1 3	KIA-3 2 KIB-1 2 KIC-1 1.5		KIA-3 1.5 KIB-1 1.5 KIC-1 1													
IV			KIC-1 3	KIB-1 2	KIC-1 1.5	KIB-1 1.5	KIC-1 1	KIB-1 1	KIC-1 0.5										
V				KIB-1 2 KIB-2 1.5 KIC-1 1.5	KIC-2 3 KID-1 4	KIB-1 1.5 KIB-2 1 KIC-1 1	KIC-2 2 KID-1 3	KIB-1 1 KIB-2 0.5 KIC-1 0.5	KIC-2 1.5 KID-1 2										
VI				KIB-2 1.5 KIC-2 3	KID-1 4 KIE-3 13	KIB-2 1 KIC-2 2	KID-1 3 KIE-3 8.5	KIB-2 0.5 KIC-2 1.5	KID-1 2 KIE-3 6.5	KIB-2 0.5 KIC-2 1	KID-1 1.5 KIE-3 5								
VII						KIB-2 1 KIC-2 2	KID-1 3 KIE-3 8.5	KIB-2 0.5 KIC-2 1.5	KID-1 2 KIE-3 6.5	KIB-2 0.5 KIC-2 1	KID-1 1.5 KIE-3 5								
VIII				KIM-3 18		KIB-2 1 KIC-2 2 KID-2 2 KIE-2 5.5	KIE-3 8.5 KIF-2 11 KIM-3 12	KIB-2 0.5 KIC-2 1.5 KID-2 1.5 KIE-2 4	KIE-3 6.5 KIF-2 8 KIM-3 9	KIB-2 0.5 KIC-2 1 KID-2 1 KIE-2 3.5	KIE-3 5 KIF-2 6.5 KIM-3 7	KIB-2 0.5 KIC-2 1 KID-2 1 KIE-2 3	KIE-3 4 KIF-2 5.5 KIM-3 6						
IX						KIB-2 1 KIC-2 2 KIC-3 2.5 KID-2 2	KIE-2 5.5 KIF-2 11 KIK-1 12.5 KIM-3 12	KIB-2 0.5 KIC-2 1.5 KIC-3 8 KIK-1 2 KID-2 1.5	KIE-2 4 KIF-2 8 KIK-1 9 KIM-3 9	KIB-2 0.5 KIC-2 1 KIC-3 1.5 KID-2 1	KIE-2 3.5 KIF-2 6.5 KIK-1 7.5 KIM-3 7	KIB-2 0.5 KIC-2 1 KIC-3 1 KID-2 1	KIE-2 3 KIF-2 5.5 KIM-3 6	KIM-3 5		KIM-3 4.5			
X						KIB-2 1 KIC-2 2 KIC-3 2.5 KIC-4 4 KID-2 2	KIE-1 3 KIE-2 5.5 KIF-2 11 KIK-1 12.5	KIB-2 0.5 KIC-2 1.5 KIC-3 8 KIK-1 3 KID-2 1.5	KIE-1 2 KIE-2 4 KIF-2 8 KIK-1 2 KIM-3 9	KIB-2 0.5 KIC-2 1 KIC-3 1.5 KIC-4 2 KID-2 1	KIE-1 1.5 KIE-2 3.5 KIF-2 6.5 KIK-1 7.5 KIM-3 7	KIB-2 0.5 KIC-2 1 KIC-3 1 KIC-4 2 KID-2 1	KIE-1 1.5 KIE-2 3 KIF-2 5.5 KIM-3 6	KIM-3 5		KIM-3 4.5	KIM-3 4		
XI						KIK-1 12.5 KIK-2 14		KIC-3 2 KIC-4 3 KID-2 1.5 KIE-1 2	KIF-2 8 KIK-1 9 KIK-2 11 KIM-3 9	KIC-3 1.5 KIC-4 2 KID-2 1 KIE-1 1.5	KIF-2 6.5 KIK-1 7.5 KID-2 8.5 KIM-3 7	KIC-3 1 KIC-4 2 KID-2 1 KIE-1 1.5	KIF-2 5.5 KIK-1 7 KIM-3 6	KIC-3 1 KIC-4 1.5 KID-2 1 KIE-1 1	KIF-2 4.5 KIK-2 6 KIM-3 5	KIK-2 5.5 KIM-3 4.5	KIK-2 5 KIM-3 4	KIK-2 4 KIM-3 3.5	
XII								KIC-3 2 KIC-4 3 KID-2 1.5 KIE-1 2 KIF-1 6 KIF-2 8	KIG-1 10 KIK-1 9 KIK-2 11 KIK-3 11.5 KIM-1 11	KIC-3 1.5 KIC-4 2 KID-2 1 KIE-1 1.5 KIF-1 5 KIF-2 6.5	KIG-1 8 KIK-1 7.5 KIK-2 8.5 KIK-3 9 KIM-1 9	KIC-3 1 KIC-4 2 KID-2 1 KIE-1 1.5 KIF-1 4 KIF-2 5.5	KIG-1 6.5 KIK-1 6 KIK-2 1 KIK-3 7.5 KIM-1 7.5 KIM-3 6	KIC-3 1 KIC-4 1.5 KID-2 1 KIE-1 1 KIF-1 3.5 KIF-2 4.5	KIG-1 6 KIK-2 6 KIK-3 6.5 KIM-1 6.5 KIM-3 5	KIK-2 5.5 KIK-3 6 KIM-1 5.5 KIM-2 6 KIM-3 4.5	KIK-2 5 KIK-3 5 KIM-3 4	KIK-2 4 KIK-3 4.5 KIM-3 3.5	KIK-3 4 KIM-3 3
XIII								KIC-3 2		KIC-3 1.5 KIC-4 2 KIE-1 1.5 KIF-1 5 KIF-2 6.5 KIG-1 8 KIG-2 10	KIJ-1 11.5 KIK-1 6 KIK-2 8.5 KIK-3 9 KIM-1 9 KIM-2 10	KIC-3 1 KIC-4 2 KIE-1 1.5 KIF-1 4 KIF-2 5.5 KIG-1 6.5 KIG-2 8	KIJ-1 9.5 KIK-1 6 KIK-2 1 KIK-3 7.5 KIM-1 7.5 KIM-2 8 KIM-3 6	KIC-3 1 KIC-4 1.5 KIE-1 6 KIF-1 3.5 KIF-2 4.5 KIG-1 6 KIG-2 7	KIK-1 5 KIK-2 6 KIK-3 6.5 KIM-1 6.5 KIM-2 7 KIM-3 5	KIK-2 5.5 KIK-3 6 KIM-1 5.5 KIM-2 6 KIM-3 4.5	KIK-2 5 KIK-3 5 KIM-1 5.5 KIM-2 5.5 KIM-3 4	KIK-2 4 KIK-3 4.5 KIM-2 5 KIM-3 3.5	KIK-3 4 KIM-2 4.5 KIM-3 3



KLINGON EMPIRE



MOVEMENT POINT RATIO TABLE: IMPULSE ENGINE

Movement Point Ratios																		
Ship Class	5/1	6/1		7/1		8/1		9/1	10/1		11/1		12/1		13/1		14/1	
XIV	KIF-2 6.5	KIC-4 2	KIJ-2 10	KIC-4 1.5	KIK-2 6	KIJ-2 7.5		KIJ-2 6.5		KIK-2 4		KIK-3 4		KIK-3 4		KIK-3 3.5		
	KIJ-2 12	KIF-1 4	KIK-1 6	KIF-1 3.5	KIK-3 6.5	KIK-2 5.5		KIK-2 5		KIK-3 4.5		KIM-2 4.5		KIM-2 4		KIM-2 4		
	KIK-1 7.5	KIF-2 5.5	KIK-2 7	KIF-2 4.5	KIL-1 9	KIK-3 6		KIK-3 5		KIM-2 5		KIM-3 3		KIM-3 3				
	KIK-3 9	KIG-1 6.5	KIK-3 7.5	KIG-1 6	KIM-1 6.5	KIL-1 8		KIL-1 7		KIM-3 3.5								
	KIL-1 13	KIG-2 8	KIL-1 11	KIG-2 7	KIM-2 7	KIM-1 5.5		KIM-1 5										
	KIM-1 9	KIH-1 8.5	KIM-1 7.5	KIH-1 8.5	KIJ-2 7	KIM-2 6		KIM-2 5.5										
		KIJ-1 9.5	KIM-2 8	KIK-1 5		KIM-3 4.5		KIM-3 4										
XV	KIF-2 6.5	KIC-4 2	KIJ-2 10	KIC-4 1.5	KIK-1 5	KIJ-2 7.5		KIJ-2 6.5		KIK-2 4		KIK-3 4		KIK-3 4		KIK-3 3.5		
	KIJ-2 12	KIF-1 4	KIK-1 6	KIF-1 3.5	KIK-2 6	KIK-2 5.5		KIK-2 5		KIK-3 4.5		KIM-2 4.5		KIM-2 4		KIM-2 4		
	KIK-1 7.5	KIF-2 5.5	KIK-2 7	KIF-2 4.5	KIK-3 6.5	KIK-3 6		KIK-3 5		KIM-2 5		KIM-3 3		KIM-3 3				
	KIK-3 9	KIG-1 6.5	KIK-3 7.5	KIG-1 6	KIL-1 9	KIL-1 8		KIL-1 7		KIM-3 3.5								
	KIL-1 13	KIG-2 8	KIL-1 11	KIG-2 7	KIM-1 6.5	KIM-1 5.5		KIM-1 5		KIN-1 6.5								
	KIM-1 9	KIH-1 8.5	KIM-1 7.5	KIH-1 8.5	KIM-2 7	KIM-2 6		KIM-2 5.5										
	KIN-1 13	KIH-2 9	KIN-1 11	KIH-2 8	KIN-1 9.5	KIN-1 8		KIM-3 4										
		KIJ-1 9.5		KIJ-2 8.5				KIN-1 7.5										
XVI	KIF-2 6.5	KIC-4 2		KIC-4 1.5	KIJ-3 9	KIJ-2 7.5	KIL-2 8.5	KIJ-2 6.5	KIN-1 7.5	KIJ-3 6		KIJ-3 6		KIJ-3 5		KIJ-3 5		
		KIF-1 4		KIF-1 3.5	KIK-1 5	KIJ-3 8	KIM-1 5.5	KIJ-3 7	KIO-1 8	KIK-2 4		KIK-2 4		KIK-2 3.5		KIK-3 3.5		
		KIF-2 5.5		KIF-2 4.5	KIK-3 6.5	KIK-1 4.5	KIM-2 6	KIK-1 4		KIK-3 4.5		KIK-3 4		KIK-3 4		KIL-2 5		
		KIG-1 6.5		KIG-1 6	KIL-1 9	KIK-2 5.5	KIN-1 8	KIK-2 5		KIL-1 6.5		KIL-1 6		KIL-2 6		KIM-2 4		
		KIG-2 8		KIG-2 7	KIL-2 10	KIK-3 6	KIO-1 9	KIK-3 5		KIL-2 7		KIL-2 6		KIM-2 4		KIO-1 6		
		KIH-1 8.5		KIH-1 7.5	KIM-1 6.5	KIL-1 8		KIL-1 7		KIM-1 4.5		KIM-1 4		KIO-1 6				
		KIH-2 9		KIH-2 8	KIM-1 9.5	KIM-2 8.5		KIL-2 7.5		KIM-2 5		KIM-2 4.5						
		KIJ-1 9.5		KIJ-2 8	KIO-1 10.5			KIM-1 5		KIN-1 6.5		KIN-1 6						
				KIJ-2 8.5				KIM-2 5.5		KIO-1 7.5		KIO-1 7						
XVII	KIF-2 6.5	KIC-4 2		KIC-4 1.5	KIJ-2 8.5	KIJ-2 7.5	KIN-1 8	KIJ-2 6.5	KIM-2 5.5	KIJ-2 6	KIN-1 6.5	KIJ-2 5.5	KIM-1 4	KIN-2 6	KIJ-3 5	KIK-3 3.5	KIL-2 5	
		KIF-1 4		KIF-1 3.5	KIK-1 5	KIJ-3 8	KIN-2 9	KIJ-3 7	KIN-1 7.5	KIJ-3 6	KIN-2 6	KIJ-3 4.5	KIM-2 4.5	KIK-2 6	KIK-2 3.5	KIL-2 5		
		KIF-2 5.5		KIF-2 4.5	KIK-3 6.5	KIK-1 4.5	KIO-1 9	KIK-1 4	KIN-2 8	KIK-2 4	KIO-1 7.5	KIK-2 4	KIN-1 6	KIK-3 6	KIL-2 6	KIM-2 4		
		KIG-1 6.5		KIG-1 6	KIM-1 6.5	KIK-2 5.5	KIO-2 10	KIK-2 5	KIO-1 8	KIK-3 4.5	KIO-2 8	KIK-3 4	KIN-2 6.5	KIL-2 4	KIM-1 3.5	KIO-1 6		
		KIG-2 8		KIG-2 7	KIN-1 9.5	KIK-3 6		KIK-3 5	KIO-2 9	KIL-1 7		KIL-1 6.5	KIO-1 7	KIM-1 4	KIO-2 6			
		KIH-1 8.5		KIH-1 7.5	KIN-2 10	KIL-1 8		KIL-1 7		KIL-2 7		KIL-2 6	KIO-2 7	KIM-2 4				
		KIH-2 9		KIH-2 8	KIO-1 10.5	KIL-2 8.5		KIL-2 7.5		KIM-1 4.5								
		KIJ-1 9.5		KIJ-2 8	KIO-2 11.5	KIM-1 5.5		KIM-1 5		KIM-2 5								
XVIII	KIF-2 6.5	KIF-1 4		KIC-4 1.5	KIH-2 8	KIC-4 1.5	KIK-3 6	KIJ-2 6.5	KIN-2 8	KIJ-2 6	KIN-3 8	KIJ-2 5.5	KIN-3 7	KIJ-2 5	KIJ-3 6.5	KIO-2 6	KIJ-3 4.5	
		KIF-2 5.5		KIF-1 3.5	KIJ-1 8	KIF-1 3	KIM-1 5.5	KIJ-3 7	KIN-3 9	KIJ-3 6	KIO-1 7.5	KIJ-3 6	KIO-1 7	KIJ-3 5	KIK-3 3.5	KIO-3 6.5	KIL-2 3	
				KIF-2 4.5		KIG-1 5	KIN-1 8	KIK-1 4	KIO-1 8	KIK-2 4	KIO-2 8	KIK-2 4	KIO-2 7	KIK-2 3.5	KIL-2 6.5		KIL-2 5	
				KIG-1 6		KIG-2 6	KIN-2 9	KIK-2 5	KIO-2 9	KIK-3 4.5	KIO-3 8	KIK-3 4	KIO-3 7.5	KIK-3 4	KIM-1 3.5	KIM-1 3.5	KIM-2 3.5	
				KIG-2 7		KIH-1 6.5	KIN-3 10	KIK-3 5	KIO-3 9	KIL-2 7		KIL-2 6	KIO-3 7.5	KIL-2 4	KIM-1 6	KIM-1 3.5	KIN-1 5	
				KIH-1 7.5		KIH-2 7	KIO-1 9	KIL-2 7.5		KIM-1 4.5		KIM-1 4		KIM-2 3.5	KIM-2 4	KIN-1 5	KIO-1 5.5	
						KIJ-1 7	KIO-2 10	KIM-1 5		KIM-2 5		KIM-2 4.5		KIM-2 4	KIN-2 5.5	KIN-2 5.5	KIO-2 6	
						KIJ-2 7.5	KIO-3 10.5	KIM-2 5.5		KIN-1 6.5		KIN-1 6		KIN-1 5.5	KIN-3 6	KIO-1 6	KIO-3 6	
						KIK-1 4.5												
XIX		KIF-1 4		KIF-1 3.5		KIF-1 3	KIH-2 7	KIG-1 4.5	KIN-2 8	KIJ-3 6.5	KIO-3 8	KIJ-3 6	KIN-3 7	KIJ-3 5	KIN-3 6	KIJ-3 5	KIN-3 4.5	
				KIF-2 4.5		KIG-1 5		KIG-2 5.5	KIN-3 9	KIK-2 7		KIL-2 6	KIO-1 7	KIL-2 6	KIO-1 6	KIL-2 5	KIO-1 5.5	
						KIG-2 6		KIH-1 6	KIO-1 8	KIN-3 8		KIM-2 4.5	KIO-2 7	KIM-2 4	KIO-2 6	KIM-2 3.5	KIO-2 6	
						KIH-1 6.5		KIH-2 6	KIO-2 9	KIO-1 7.5		KIN-1 5.5	KIO-3 7.5	KIN-1 5	KIO-3 6.5	KIN-1 4.5	KIO-3 6	
								KIN-1 7.5	KIO-3 9	KIO-2 8		KIN-2 6.5	KIN-2 7	KIN-2 6	KIN-2 5.5	KIN-2 5.5	KIN-3 5.5	
XX		KIF-1 4		KIF-1 3.5		KIF-1 3		KIN-2 8		KIG-1 4	KIN-2 7	KIN-2 6.5	KIO-3 7.5	KIN-2 6	KIO-3 7	KIN-2 5.5	KIO-3 6.5	
								KIN-3 9		KIG-2 5	KIN-3 8	KIN-3 7		KIN-3 6.5		KIN-3 6	KIN-2 5.5	
										KIH-2 5.5	KIO-3 8	KIO-2 7		KIO-2 6.5		KIO-2 6	KIO-3 6	



KLINGON EMPIRE



SHIELD GENERATOR TYPES

Shield Generator Type	Total Mass (mt)	Control Computer Requirement	Shield Efficiency Rating	SS Requirement	Availability	Cost (MCr)	Year
KSA	115	ZD-1	1	0.1	LRL/48	5	2230
KSB	160	ZD-1	1	0.2	LRL/45	7	2239
KSC	190	ZD-2	1	0.3	LRL/43	8	2240
KSD	240	ZD-4	2	1	LRL/37	16	2245
KSE	230	ZD-2	1	0.5	LRL/27	10	2247
KSF	300	ZD-4	1.5	0.7	LRL/18	15	2249
KSG	310	ZD-5	2	1.4	LRL/36	20	2247
KSH	375	ZD-6	3	2.1	LRL/26	30	2253
KSI	275	ZD-3	1	0.6	LRL/17	12	2249
KSJ	360	ZD-4	1.5	0.8	LRL/42	18	2249
KSK	375	ZD-5	2	2	LRL/35	24	2253
KSL	450	ZD-7	3	2.1	LRL/25	26	2261
KSM	345	ZD-3	1	0.9	LRL/16	15	2253
KSN	450	ZD-4	1.5	1.1	LRL/33	23	2254
KSO	470	ZD-6	2	2.1	LRL/23	30	2255
KSP	560	ZD-7	3	2.2	LRL/14	45	2261
KSQ	670	ZD-8	3	2.9	LRL/10	66	2285
KSR	1,098	ZD-10	3	4.1	RRR/8	151	2303
KSS	645	ZD-9	3	2.3	RRR/7	87	2313
KST	735	ZD-6	3	3.1	RRR/2	103	2327
KSU	750	ZD-7	4	3.8	RRR/16	122	2332
KSV	470	ZD-5	2	2.6	RRR/25	44	2334
KSW	750	ZD-6	2	3.4	RRR/16	72	2335
KSX	790	ZD-7	4	2.9	RRR/15	152	2337
KSY	850	ZD-7	3	2.8	RRR/14	123	2340
KSZ	1,190	ZD-9	3	4.3	RRR/10	159	2341
KNSA	1,040	ZD-7	2	4.4	RRR/11	98	2342
KNSB	940	ZD-7	4	3.6	RRR/13	178	2344
KNSC	1,210	ZD-9	3	3.8	RRR/10	163	2345
KNSD	990	ZD-7	4	3.8	RRR/12	187	2348
KNSE	1,280	ZD-9	3	4.5	RRR/9	182	2350
KNSF	1,300	ZD-9	3	7.1	RRR/9	194	2351
KNSG	1,310	ZD-9	3	7.3	RRR/9	200	2355
KNSH	1,180	ZD-9	4	6.7	RRR/10	221	2356
KNSI	1,360	ZD-9	3	4.8	RRR/9	194	2360
KNSJ	1,380	ZD-9	3	6.9	RRR/8	202	2362





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MAXIMUM SHIELD POWER Shield Types/Shield Point Ratios

Ship Class	1/1						2/3			1/2						
	KSA	KSB	KSC	KSE	KSI	KSM	KSF	KSJ	KSN	KSD	KSG	KSK	KSO	KSV	KSW	KNSA
I	10	10	12	12	15	15	14	15	15	14	15	15	15	20	32	44
	14.5	14.5	17	17	21.5	21.5	13.5	14.5	14.5	10	10.5	10.5	10.5	14	23	31
II	9	10	11	12	15	15	13	15	15	13	15	15	15	20	32	44
	13	14.5	15.5	17	21.5	21.5	12.5	14.5	14.5	9.5	10.5	10.5	10.5	14	23	31
III	7	8	11	11	14	15	13	15	15	12	14	15	15	20	32	44
	10	11.5	15.5	15.5	20	21.5	12.5	14.5	14.5	8.5	10	10.5	10.5	14	23	31
IV	5	8	11	11	14	15	12	14	15	11	13	15	15	20	32	44
	7	11.5	15.5	15.5	20	21.5	11.5	13.5	14.5	8	9.5	10.5	10.5	14	23	31
V	5	7	10	11	13	14	11	14	15	11	12	14	15	20	32	44
	7	10	14.5	15.5	18.5	20	10.5	13.5	14.5	8	8.5	10	10.5	14	23	31
VI	5	7	9	10	13	14	10	13	15	10	11	13	15	20	32	44
	7	10	13	14.5	18.5	20	9.5	12.5	14.5	7	8	9.5	10.5	14	23	31
VII	4	6	9	10	12	14	10	13	15	10	10	13	15	20	32	44
	5.5	8.5	13	14.5	17	20	9.5	12.5	14.5	7	7	9.5	10.5	14	23	31
VIII	3	5	8	9	11	13	9	12	14	8	9	12	15	20	31	44
	4.5	7	11.5	13	15.5	18.5	8.5	11.5	13.5	5.5	6.5	8.5	10.5	14	22	31
IX	-	4	7	8	10	12	9	11	14	8	9	12	15	20	31	43
	-	5.5	10	11.8	14.5	17	8.5	10.5	13.5	5.5	6.5	8.5	10.5	14	22	30.5
X	-	4	7	7	9	11	8	10	13	6	8	11	15	20	31	43
	-	5.5	10	10	13	15.5	7.5	9.5	12.5	4.5	5.5	8	10.5	14	22	30.5
XI	-	3	6	7	8	10	7	9	11	5	7	10	14	20	31	43
	-	4.5	8.5	10	11.5	14.5	6.5	8.5	10.5	3.5	5	7	10	14	22	30.5
XII	-	1	4	6	7	9	5	9	10	5	7	10	14	19	31	42
	-	1.5	5.5	8.5	10	13	5	8.5	9.5	3.5	5	7	10	13.5	22	30
XIII	-	-	1	4	5	7	3	8	9	4	6	9	13	19	31	42
	-	-	1.5	5.5	7	10	3	7.5	8.5	3	4.5	6.5	9.5	13.5	22	30
XIV	-	-	-	2	5	7	1	8	8	3	5	8	12	19	31	42
	-	-	-	3	7	10	1	7.5	7.5	2	3.5	5.5	8.5	13.5	22	30
XV	-	-	-	1	3	5	-	7	8	1	5	6	11	19	31	41
	-	-	-	1.5	4.5	7	-	6.5	7.5	0.5	3.5	4.5	8	13.5	22	29
XVI	-	-	-	-	2	3	-	5	7	-	4	5	10	19	31	41
	-	-	-	-	3	4.5	-	5	6.5	-	3	3.5	7	13.5	22	29
XVII	-	-	-	-	1	1	-	5	7	-	3	4	10	19	31	41
	-	-	-	-	1.5	1.5	-	5	6.5	-	2	3	7	13.5	22	29
XVIII	-	-	-	-	-	-	-	4	5	-	1	3	9	19	31	40
	-	-	-	-	-	-	-	3.5	5	-	0.5	2	6.5	13.5	22	28.5
XIX	-	-	-	-	-	-	-	3	5	-	-	1	8	19	31	40
	-	-	-	-	-	-	-	3	5	-	-	0.5	5.5	13.5	22	28.5
XX	-	-	-	-	-	-	-	2	4	-	-	-	7	19	30	40
	-	-	-	-	-	-	-	2.5	3.5	-	-	-	5	13.5	21	28.5





KLINGON EMPIRE



MAXIMUM SHIELD POWER Shield Types/Shield Point Ratios

Ship Class	1/3													1/4							
	KSH	KSL	KSP	KSQ	KSR	KSS	KST	KSY	KSZ	KNSC	KNSE	KNSF	KNSG	KNSI	KNSJ	KSU	KSX	KNSB	KNSD	KNSH	KNSA
I	15 7	15 7	15 7	20 9.5	46 22	26 12.5	32 15.5	36 17	50 24	52 25	54 25.5	55 26	56 26.5	58 27.5	60 28.5	32 11.5	34 12	40 14	42 15	50 18	44 31
II	15 7	15 7	15 7	20 9.5	46 22	26 12.5	32 15.5	35 16.5	50 24	52 25	54 25.5	55 26	56 26.5	58 27.5	60 28.5	32 11.5	34 12	40 14	41 14.5	50 18	44 31
III	15 7	15 7	15 7	20 9.5	46 22	26 12.5	32 15.5	36 17	50 24	52 25	54 25.5	55 26	56 26.5	58 27.5	60 28.5	32 11.5	33 12	39 14	41 14.5	50 18	44 31
IV	14 6.5	15 7	15 7	20 9.5	46 22	26 12.5	32 15.5	36 17	50 24	52 25	54 25.5	55 26	56 26.5	58 27.5	60 28.5	32 11.5	33 12	39 14	40 14	50 18	44 31
V	14 6.5	15 7	15 7	20 9.5	46 22	26 12.5	32 15.5	36 17	50 24	52 25	54 25.5	55 26	55 26	57 27	60 28.5	32 11.5	33 12	39 14	39 14	50 18	44 31
VI	13 6	15 7	15 7	20 9.5	45 21	26 12.5	32 15.5	35 16.5	50 24	52 25	54 25.5	55 26	55 26	57 27	60 28.5	32 11.5	33 12	39 14	39 14	50 18	44 31
VII	13 6	15 7	15 7	20 9.5	45 21	26 12.5	32 15.5	36 17	50 24	52 25	54 25.5	55 26	55 26	57 27	60 28.5	32 11.5	32 11.5	38 13.5	38 13.5	50 18	44 31
VIII	12 5.5	14 6.5	15 7	20 9.5	45 21	26 12.5	32 15.5	36 17	50 24	52 25	54 25.5	55 26	55 26	57 27	60 28.5	32 11.5	32 11.5	38 13.5	38 13.5	50 18	44 31
IX	11 5	14 6.5	15 7	20 9.5	45 21	26 12.5	32 15.5	36 17	50 24	52 25	54 25.5	55 26	55 26	57 27	59 28	31 11	32 11.5	38 13.5	37 13	50 18	43 30.5
X	11 5	14 6.5	15 7	20 9.5	45 21	26 12.5	32 15.5	35 16.5	50 24	52 25	54 25.5	55 26	55 26	57 27	59 28	31 11	32 11.5	37 13	36 13	50 18	43 30.5
XI	11 5	13 6	15 7	20 9.5	45 21	26 12.5	32 15.5	36 17	50 24	52 25	54 25.5	55 26	55 26	57 27	59 28	30 10.5	31 11	37 13	36 13	50 18	43 30.5
XII	10 5	13 6	15 7	20 9.5	45 21	26 12.5	32 15.5	36 17	50 24	52 25	54 25.5	55 26	54 25.5	56 26.5	59 28	30 10.5	31 11	37 13	35 12.5	50 18	42 30
XIII	9 4.5	12 5.5	15 7	20 9.5	45 21	26 12.5	32 15.5	36 17	50 24	52 25	53 25	55 26	54 25.5	56 26.5	59 28	29 10.5	31 11	36 13	34 12	50 18	42 30
XIV	9 4.5	12 5.5	15 7	20 9.5	45 21	26 12.5	32 15.5	35 16.5	50 24	52 25	53 25	55 26	54 25.5	56 26.5	59 28	29 10.5	31 11	36 13	34 12	50 18	42 30
XV	8 4	10 5	14 6.5	20 9.5	44 21	22 10.5	32 15.5	36 17	49 23	51 24	53 25	55 26	54 25.5	56 26.5	59 28	28 10	30 10.5	36 13	33 12	50 18	41 29
XVI	8 4	10 5	14 6.5	20 9.5	44 21	22 10.5	32 15.5	36 17	49 23	51 24	53 25	55 26	54 25.5	56 26.5	58 27.5	28 10	30 10.5	36 13	33 12	50 18	41 29
XVII	8 4	9 4.5	14 6.5	20 9.5	44 21	22 10.5	32 15.5	35 16.5	49 23	51 24	53 25	54 25.5	54 25.5	56 26.5	58 27.5	27 9.5	30 10.5	35 12.5	32 11.5	50 18	41 29
XVIII	7 3.5	9 4.5	14 6.5	20 9.5	44 21	22 10.5	32 15.5	35 16.5	48 23	51 24	53 25	54 25.5	54 25.5	56 26.5	58 27.5	27 9.5	30 10.5	35 12.5	31 11	50 18	40 28.5
XIX	7 3.5	8 4	14 6.5	20 9.5	44 21	18 8.5	32 15.5	34 16	48 23	51 24	53 25	54 25.5	53 25	55 26	58 27.5	26 9	29 10.5	35 12.5	31 11	50 18	40 28.5
XX	6 3	8 4	13 6	20 9.5	44 21	18 8.5	32 15.5	34 16	47 22	51 24	53 25	54 25.5	53 25	55 26	58 27.5	26 9	29 10.5	34 12	30 10.5	50 18	40 28.5

KLINGON EMPIRE

DISRUPTOR BEAM WEAPON TYPES

Phaser Weapon Type	Total Mass (mt)	Maximum Beam Power	Damage Modifiers			Maximum Range (Hex)	Firing Chart	Weapon Damaging Factor	SS Requirements		Availability	Cost (MCr)	Year
			+3	+2	+1				(single	/ bank)			
KD-1	150	4	(-)	(-)	(-)	10	B	0.7	0.3	/ 0.6	RRI/61	23	2225
KD-2	180	4	(-)	(-)	(1-10)	10	G	1.4	0.4	/ 0.8	RRI/51	27	2230
KD-3	210	5	(-)	(-)	(1-12)	12	I	2.7	0.6	/ 1.2	III/48	32	2237
KD-4	450	4	(-)	(-)	(1-10)	10	J	2	0.6	/ 1.2	III/52	38	2240
KD-5	575	4	(-)	(1-10)	(11-18)	18	P	3.1	0.8	/ 1.6	III/38	86	2242
KD-6	600	6	(-)	(1-18)	(-)	18	T	5.1	0.9	/ 1.8	III/35	90	2242
KD-7	350	7	(-)	(1-6)	(7-12)	12	L	3.8	1.1	/ 2.2	III/46	53	2248
KD-8	800	7	(1-7)	(8-15)	(16-20)	20	U	6.1	1.6	/ 3.2	III/31	120	2248
KD-9	600	5	(1-7)	(8-15)	(16-20)	20	W	5	1.3	/ 2.6	III/30	90	2249
KD-10	300	3	(-)	(-)	(1-6)	6	C	0.7	0.5	/ 1	RRI/60	45	2250
KD-11	340	5	(-)	(1-4)	(5-8)	8	F	1.7	0.6	/ 1.2	III/56	54	2252
KD-12	700	9	(1-3)	(4-8)	(9-10)	10	H	3.7	1	/ 2	III/52	105	2253
KD-13	520	5	(1-7)	(8-15)	(16-22)	22	X	5.7	1.6	/ 3.2	III/28	78	2254
KD-14	660	8	(-)	(1-6)	(-)	6	D	2.1	0.6	/ 1.2	III/55	99	2256
KD-15	960	10	(-)	(1-18)	(-)	18	T	7.6	2.2	/ 4.4	III/14	144	2279
KD-16	380	6	(1-9)	(10-17)	(18-22)	24	Y	7.1	1.2	/ 2.4	III/29	57	2284
KD-17	420	9	(1-12)	(13-17)	(18-22)	22	X	9.1	0.9	/ 1.8	III/20	63	2285
KD-18	700	11	(1-7)	(8-15)	(16-20)	20	U	8.9	1.6	/ 3.2	III/12	105	2293
KD-19	850	12	(1-14)	(15-18)	(19-22)	22	X	11.5	2.3	/ 4.6	III/8	128	2303
KD-20	1,100	15	(1-7)	(8-15)	(16-22)	22	X	13.5	4.8	/ 9.6	III/6	166	2320
KD-21	930	17	(-)	(-)	(1-18)	20	W	13.5	3.5	/ 7	III/23	140	2336
KD-22	1,196	22	(-)	(1-14)	(-)	16	S	14.8	4.7	/ 9.4	III/21	180	2337
KD-23	545	10	(1-12)	(13-18)	(19-20)	20	U	8.4	2.3	/ 4.6	III/29	82	2338
KD-24	490	9	(1-14)	(15-16)	(17-18)	18	T	7.4	2.5	/ 5	III/29	74	2340
KD-25	649	12	(1-7)	(8-14)	(15-20)	24	Y	11	2.6	/ 5.2	III/27	98	2341
KD-24	1,186	24	(-)	(1-13)	(14-18)	18	T	16.4	5.3	/ 10.6	III/20	179	2341
KD-26	710	13	(1-7)	(8-10)	(11-24)	24	Y	11.8	2.9	/ 5.8	III/26	107	2342
KD-27	1,083	20	(1-7)	(8-15)	(16-22)	22	X	17.5	4.3	/ 8.6	III/22	164	2342
KD-28	1,355	25	(1-10)	(11-15)	(16-20)	20	U	18.5	5	/ 10	III/20	205	2344
KD-29	976	18	(-)	(1-16)	(17-20)	20	W	15	3.8	/ 7.6	III/23	147	2345
KD-30	542	10	(1-9)	(10-18)	(19-24)	24	Y	9.8	2	/ 4	III/29	82	2346
KD-31	869	16	(1-8)	(9-10)	(11-12)	12	L	8.1	3.7	/ 7.4	III/24	131	2348
KD-32	2,063	38	(-)	(1-16)	(-)	18	T	25.3	7.5	/ 15	III/14	311	2349
KD-33	1,497	28	(1-6)	(7-14)	(15-20)	20	W	22.7	5.5	/ 11	III/18	226	2349
KD-34	814	15	(1-8)	(9-14)	(15-22)	24	Y	13.5	3.1	/ 6.2	III/25	123	2349
KD-35	1,632	30	(1-8)	(9-10)	(11-18)	20	U	21.5	5.9	/ 11.8	III/17	246	2350
KD-36	1,892	35	(-)	(1-6)	(7-10)	10	J	14.6	7.4	/ 14.8	III/15	285	2350
KD-37	1,139	21	(1-8)	(9-10)	(11-20)	20	U	15.5	4.1	/ 8.2	III/21	172	2352
KD-38	817	15	(-)	(-)	(1-17)	21	V	10.8	3.2	/ 6.4	III/25	123	2355
KD-39	705	13	(1-12)	(13-18)	(19-20)	20	U	10.5	2.6	/ 5.2	III/26	106	2357
KD-40	2,011	37	(1-6)	(7-10)	(11-18)	20	U	26.2	7.4	/ 14.8	III/14	304	2360
KD-41	2,274	42	(1-6)	(7-10)	(11-20)	22	X	34.7	8.2	/ 16.4	III/12	344	2361
KD-42	2,183	40	(1-8)	(9-10)	(11-20)	20	W	31.7	7.7	/ 15.4	III/13	330	2365
KD-43	759	14	(1-12)	(13-15)	(16-18)	24	Y	12.7	2.9	/ 5.8	III/26	115	2365

PULSE DISRUPTOR BEAM WEAPON TYPES

Phaser Weapon Type	Total Mass (mt)	Maximum Beam Power	Damage Modifiers			Maximum Range (Hex)	Firing Chart	Weapon Damaging Factor	SS Requirements		Availability	Cost (MCr)	Year
			+3	+2	+1				(single	/ bank)			
KPD-1	300	2	(-)	(1-6)	(7-13)	13	N	1.8	1.5	/ 2.9	III/51	45	2276
KPD-2	305	3	(1-4)	(5-8)	(9-12)	12	L	2.3	1.8	/ 3.5	III/47	45	2277
KPD-3	298	4	(1-3)	(4-7)	(8-10)	10	J	2.5	2.1	/ 4.1	III/39	44	2279
KPD-4	290	2	(1-5)	(6-10)	(11-14)	14	M	2	1.6	/ 3	III/50	43	2284
KPD-5	310	7	(-)	(1-7)	(8-14)	14	O	4.6	2	/ 4	III/37	46	2289
KPD-6	315	5	(1-5)	(6-10)	(11-14)	14	Q	4	2.2	/ 4.2	III/34	47	2294
KPD-7	295	9	(-)	(1-10)	(11-18)	18	T	7	2.5	/ 4.2	III/17	44	2314
KPD-8	317	10	(1-3)	(4-9)	(10-14)	14	Q	5.8	3.2	/ 4.6	III/9	48	2324



KLINGON EMPIRE



DISRUPTOR CANNON BEAM WEAPON TYPES

Phaser Weapon Type	Total Mass (mt)	Maximum Beam Power	Damage Modifiers			Maximum Range (Hex)	Firing Chart	Weapon Damaging Factor	SS Requirements			Availability	Cost (MCr)	Year
			+3	+2	+1				(single	/	bank)			
KDC-1	1,845	15	(1-4)	(5-8)	(9-12)	12	I	7.6	2.8	/	5.6	III/35	277	2290
KDC-2	1,950	18	(1-4)	(5-7)	(8-10)	10	H	7.8	2.9	/	5.8	III/32	293	2296
KDC-3	2,150	12	(1-5)	(6-10)	(11-14)	14	Q	9.5	3	/	6	III/34	323	2305
KDC-4	2,560	20	(1-6)	(7-11)	(12-16)	16	S	16.2	3.1	/	6.2	III/15	385	2311
KDC-5	2,300	18	(1-5)	(6-10)	(11-14)	14	Q	13	3.2	/	6.4	III/31	346	2323
KDC-6	2,400	25	(-)	(1-7)	(8-16)	16	R	15.7	3.4	/	6.8	III/20	361	2336
KDC-7	2,100	22	(1-2)	(3-12)	(13-18)	18	T	15.1	3.2	/	6.4	III/21	316	2338
KDC-8	3,100	32	(1-3)	(4-6)	(7-10)	10	J	13.5	4.6	/	9.2	III/16	466	2339
KDC-9	2,900	30	(1-4)	(5-13)	(14-16)	16	R	19.1	4.1	/	8.2	III/17	436	2341
KDC-10	3,600	38	(-)	(1-13)	(14-18)	18	P	21.8	5	/	10	III/14	542	2344
KDC-11	2,700	28	(1-8)	(9-11)	(12-18)	18	T	19.1	4	/	8	III/18	406	2344
KDC-12	3,300	35	(-)	(1-7)	(8-14)	14	Q	20	4.6	/	9.2	III/15	497	2347
KDC-13	4,000	42	(-)	(1-3)	(4-8)	10	H	14.3	5.7	/	11.4	III/12	601	2348
KDC-14	4,200	44	(-)	(1-12)	(-)	15	K	19.3	5.9	/	11.8	III/11	631	2349
KDC-15	4,600	48	(-)	(-)	(1-10)	12	L	21.5	6.3	/	12.6	III/9	692	2350
KDC-16	4,800	50	(-)	(1-13)	(-)	14	O	26.9	6.7	/	13.4	III/9	722	2352
KDC-17	5,700	60	(-)	(1-4)	(5-15)	15	K	26.4	7.9	/	15.8	III/5	857	2358
KDC-18	6,200	65	(-)	(-)	(1-10)	12	L	29.5	8.3	/	16.6	III/4	932	2363
KDC-19	8,500	90	(-)	(-)	(-)	14	Q	49.2	11.6	/	23.2	III/3	1279	2370

PHOTON TORPEDO WEAPON TYPES

Missile Weapon Type	Mass (mt)	Power to Arm	Damage	Range	Firing Chart	WDF	SS	Availability	Cost (MCr)	Year
KP-1	225	1	6	8	F	1.5	0.8	III/55	34	2230
KP-2	375	1	10	10	H	3.3	1	III/51	56	2237
KP-3	550	2	15	16	R	9	1	III/45	83	2263
KP-4	675	2	18	14	Q	9.8	1.3	III/41	101	2263
KP-5	300	1	10	14	Q	5.5	1.2	III/50	45	2265
KP-6	600	2	20	16	R	11.8	1.6	III/38	90	2265
KP-7	350	1	6	10	H	2	1.7	III/51	53	2285
KP-8	770	2	24	16	S	15	2.1	III/18	116	2288
KP-9	390	1	8	12	L	3.5	1.9	III/20	59	2290
KP-10	400	1	22	14	Q	13.8	1.2	III/14	60	2302
KP-11	650	1	26	16	R	15.5	1.9	III/13	98	2314
KP-12	810	2	28	18	P	15.8	2.5	III/12	122	2331
KP-13	260	1	9	18	T	5.7	0.6	III/20	39	2332
KP-14	990	2	34	12	L	14.9	3	III/10	149	2335
KP-15	460	1	16	18	T	10.1	1.7	III/16	69	2335
KP-16	1050	2	36	14	Q	19.7	2.9	III/10	158	2337
KP-17	1090	2	38	16	R	22.6	3.7	III/9	164	2339
KP-18	710	1	25	16	S	15.6	1.8	III/13	107	2342
KP-19	930	2	32	14	Q	17.5	2.3	III/11	140	2346
KP-20	880	1	30	16	R	17.8	2.6	III/11	132	2350
KP-21	430	1	15	14	Q	8.2	1.3	III/17	65	2351
KP-22	1150	2	40	16	R	23.8	4.4	III/9	173	2363

PLASMA BOLT WEAPON TYPES

Missile Weapon Type	Mass (mt)	Power to Arm	Damage	Range	Firing Chart	WDF	SS	Availability	Cost (MCr)	Year
KPL-1	120	10	RL-1	8	E	3.9	2.1	III/01	18	2261
KPL-2	180	15	RL-2	14	M	11.1	3.4	III/01	27	2276



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This rulebook includes tables for computers, engines weapons and shields that are used by the Klingon Empire. These charts can help starship engineers create accurate vessels for both the Star Trek Role Playing Game as well as Star Trek Starship Tactical Combat Simulator.