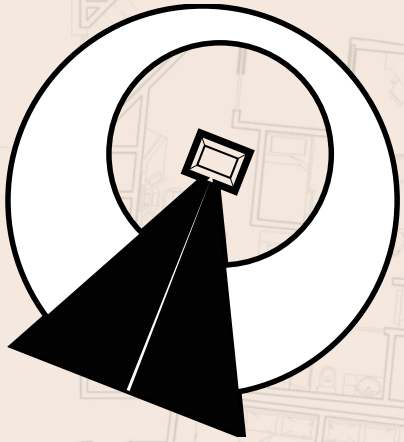


A supplement for use with
STAR TREK®
THE ROLE PLAYING GAME

2204S - Vulcan

STARSHIP CONSTRUCTION MANUAL

CONFEDERATION OF VULCAN

fasa

COMPUTER CONTROL SYSTEM TYPES

Control Computer Type	System Mass (mt)	Approrpiate Ship Classes	SS Requirement	Maximum WDF Allowed	Availability	Cost (MCr)	Year
VMC-1	390	I-II	0.2	5	RRR/79	6	2228
VMC-2	790	I-IV	0.4	10	RRR/76	13	2230
VMC-3	1,180	I-VI	0.5	15	RRR/75	19	2235
VMC-4	1,570	II-VII	0.7	20	RRR/74	25	2239
VMC-5	1,970	III-IX	1.1	25	RRR/73	32	2241
VMC-6	2,750	IV-XIII	1.5	35	RRR/70	44	2243
VMC-7	3,140	IV-XIV	1.6	40	RRR/66	50	2244
VMC-8	3,910	VI-XVIII	1.9	50	RRR/54	63	2245
VMC-9	5,090	VII-XIX	2.9	65	RRR/41	82	2248
VMC-10	5,470	VIII-XVI	2.9	70	RRR/37	88	2249
VMC-11	6,310	VI-XVIII	3.1	80	RRR/32	101	2253
VMC-12	7,880	VIII-XX	3.9	100	RRR/26	126	2270
VMC-13	8,660	VIII-XX	4.9	110	RRR/25	138	2271
VMC-14	9,470	IX-XX	4.3	120	RRR/24	151	2278
VIC-1	370	III-VI	0.2	10	RRR/76	16	2329
VIC-2	1,550	IV-XV	1.2	50	RRR/54	81	2331
VIC-3	9,160	XII-XX	6.4	280	RRR/16	467	2342
VIC-4	10,860	XIV-XX	7.5	330	RRR/13	531	2345
VIC-5	22,500	XIV-XX	7.4	320	RRR/14	442	2347
VIC-6	7,055	XI-XX	4.9	215	RRR/19	338	2350
VIC-7	13,150	XV-XX	9.1	400	RRR/10	660	2352
VIC-8	16,400	XVI-XX	11.4	500	RRR/5	735	2370
VIC-9	18,320	XVII-XX	12.8	560	RRR/2	824	2381

WARP ENGINE TYPES
Single Nacelle Use

Warp Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Stress Column (Eng/SS)	SS Requirememnt	Availability	Cost (MCr)	Year
VWA-1	2,650	7	VMC-1	B/C	1.1	LLL/58	2.8	2235
VWA-2	2,650	8	VMC-1	B/C	1.1	LLL/56	2.9	2241
VWA-3	4,000	10	VMC-2	C/D	1.1	RRR/55	4.4	2244
VWB-1	26,000	13	VMC-2	D/E	2.1	RRR/50	88	2241
VWB-2	26,000	9	VMC-3	D/E	2.1	LLL/51	85	2247
VWC-1	38,000	14	VMC-3	D/F	3.1	RRR/52	130	2244
VWC-2	38,000	20	VMC-5	D/F	3.1	RRR/28	137	2245
VWD-1	42,000	16	VMC-4	E/F	4	RRR/44	146	2245
VWD-2	42,000	18	VMC-4	E/F	4	RRR/41	149	2251
VWD-3	42,000	24	VMC-6	E/F	4	RRR/27	156	2252
VWD-4	42,000	28	VMC-6	E/F	4	RRR/31	162	2257
VWE-1	30,000	15	VMC-4	D/D	2.9	RRR/49	104	2247
VWE-2	30,000	17	VMC-5	D/D	2.9	RRR/32	106	2253
VWE-3	30,000	19	VMC-6	D/D	2.9	RRR/37	107	2260
VWF-1	40,000	14	VMC-4	E/F	3.6	RRR/50	137	2250
VWF-2	40,000	21	VMC-6	E/F	3.6	RRR/16	145	2256
VWG-1	55,000	20	VMC-6	D/E	4.6	RRR/26	264	2252
VWG-2	55,000	24	VMC-7	D/E	4.6	RRR/21	273	2259
VWG-3	55,000	28	VMC-7	D/E	4.6	RRR/24	282	2263
VWG-4	55,000	32	VMC-8	E/F	4.6	RRR/26	291	2278
VWH-1	82,500	40	VMC-10	E/F	6.7	RRR/23	578	2332
VWH-2	82,500	42	VMC-10	E/F	6.7	RRR/31	586	2333
VWH-3	82,500	45	VMC-10	E/F	6.7	RRR/19	598	2334
VWI-1	120,350	60	VMC-12	D/F	10.2	RRR/20	1,155	2340
VWI-2	120,350	64	VMC-12	D/F	10.2	RRR/8	1,184	2343
VWJ-1	38,500	21	VMC-6	C/D	3.2	RRR/18	139	2361
VWJ-2	38,500	25	VMC-7	C/D	3.2	RRR/21	144	2362
VWK-1	115,000	63	VMC-12	C/D	9.5	RRR/6	1,124	2365
VWK-2	115,000	72	VMC-13	C/E	9.5	RRR/2	1,186	2366
VWK-3	115,000	82	VMC-13	D/E	9.5	RRR/1	1,256	2369

MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

Movement Point Ratios

Ship Class	1/2	1/1		2/1			3/1			4/1		
I	**VWA-1** *20* 4/5 **VWA-2** *23* 4/5	**VWA-1** *10* 3/5 **VWA-2** *11.5* 3/5	**VWA-3** *14* 5/6	**VWA-3** *7* 4/6								
II		**VWA-1** *10* 3/5		**VWA-1** *5* 3/4	**VWA-2** *6* 3/4		**VWA-2** *4* 2/4					
III		**VWA-1** *10* 3/5		**VWA-3** *7* 4/6			**VWA-3** *5* 4/5					
IV		**VWB-1** *18.5* 5/6 **VWB-2** *13* 6/7	**VWE-1** *21.5* 7/8 **VWE-2** *24* 7/8	**VWE-2** *12* 6/8 **VWE-3** *13.5* 7/8			**VWE-3** *9* 6/8					
V		**VWB-2** *13* 6/7 **VWC-1** *20* 6/7 **VWD-1** *23* 6/8 **VWE-1** *21.5* 7/8 **VWF-1** *20* 7/9		**VWB-1** *9* 4/6 **VWC-2** *14* 6/7 **VWD-2** *13* 6/8 **VWD-3** *17* 6/8 **VWD-4** *20* 7/8	**VWE-1** *11* 6/8 **VWE-2** *12* 6/8 **VWE-3** *13.5* 7/8 **VWF-1** *10* 7/8 **VWF-2** *15* 7/9	**VWG-1** *14* 8/9 **VWG-2** *17* 8/9 **VWG-3** *20* 8/9 **VWG-4** *23* 8/9 **VWJ-1** *15* 9/10	**VWB-1** *6* 4/5 **VWD-2** *8.5* 6/7 **VWD-3** *11.5* 6/7 **VWE-3** *9* 6/8 **VWG-1** *9* 7/9	**VWG-4** *15* 7/9 **VWJ-2** *12* 9/10				
VI		**VWC-1** *20* 6/7 **VWD-1** *23* 6/8		**VWB-2** *6.5* 5/7 **VWC-1** *10* 5/7 **VWC-2** *14* 6/7 **VWD-2** *13* 6/8 **VWD-3** *17* 6/8	**VWE-1** *11* 6/8 **VWE-2** *12* 6/8 **VWF-1** *10* 7/8 **VWF-2** *15* 7/9 **VWG-1** *14* 8/9	**VWG-2** *17* 8/9 **VWG-4** *23* 8/9 **VWJ-1** *15* 9/10	**VWB-1** *6* 4/5 **VWB-2** *4.5* 5/6 **VWD-2** *8.5* 6/7 **VWD-3** *11.5* 6/7 **VWE-1** *7* 6/8	**VWE-1** *7* 6/7 **VWE-2** *8* 6/7 **VWE-3** *9* 6/8 **VWG-1** *9* 7/9 **VWG-3** *13.5* 7/9	**VWG-4** *15* 7/9 **VWJ-2** *12* 9/10			
VII				**VWC-1** *10* 5/7 **VWD-1** *11.5* 6/7 **VWF-1** *10* 7/8 **VWG-1** *14* 8/9			**VWB-2** *4.5* 5/6 **VWC-2** *9* 5/7 **VWD-1** *7.5* 5/7 **VWD-2** *8.5* 6/7 **VWD-3** *11.5* 6/7 **VWD-4** *13.5* 6/8	**VWE-1** *7* 6/7 **VWE-2** *8* 6/7 **VWE-3** *9* 6/8 **VWF-1** *6.5* 6/8 **VWF-2** *10* 7/8 **VWG-1** *9* 7/9	**VWG-2** *11.5* 7/9 **VWG-3** *13.5* 7/9 **VWG-4** *15* 7/9 **VWH-1** *19* 8/9 **VWH-2** *20* 9/10 **VWJ-1** *10* 8/10	**VWB-1** *4.5* 3/5 **VWB-2** *3* 4/6 **VWD-3** *8.5* 5/7 **VWE-3** *7* 6/7 **VWF-2** *7.5* 6/8 **VWG-1** *7* 7/8	**VWH-2** *15* 8/10 **VWH-3** *16* 8/9 **VWJ-2** *9* 8/10	
VIII				**VWD-1** *11.5* 6/7			**VWC-1** *6.5* 5/6 **VWC-2** *9* 5/7 **VWD-1** *7.5* 5/7 **VWD-2** *8.5* 6/7 **VWE-1** *7* 6/7 **VWF-1** *6.5* 6/8	**VWH-1** *19* 8/9 **VWH-2** *20* 9/10 **VWJ-1** *10* 8/10		**VWB-1** *4.5* 3/5 **VWB-2** *3* 4/6 **VWC-2** *7* 5/6 **VWD-3** *8.5* 5/7 **VWD-4** *10* 6/7 **VWE-2** *6* 5/7	**VWE-3** *7* 6/7 **VWF-2** *7.5* 6/8 **VWG-1** *7* 7/8 **VWG-2** *8.5* 7/8 **VWG-3** *10* 7/8 **VWG-4** *11.5* 7/8	**VWH-1** *14* 7/9 **VWH-2** *15* 8/10 **VWH-3** *16* 8/9 **VWJ-2** *9* 8/10

MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

Movement Point Ratios

Ship Class	3/1	4/1			5/1			6/1			7/1			8/1		
IX	**VWD-1** *7.5* 5/7 **VWF-1** *6.5* 6/8 **VWH-1** *19* 8/9 **VWH-2** *20* 9/10 **VWJ-1** *10* 8/10	**VWC-1** *5* 4/6 **VWC-2** *7* 5/6 **VWD-2** *6.5* 5/7 **VWD-3** *8.5* 5/7 **VWD-4** *10* 6/7 **VWE-1** *5* 5/7	**VWE-2** *6* 5/7 **VWF-2** *7.5* 6/8 **VWG-1** *7* 7/8 **VWG-2** *8.5* 7/8 **VWG-3** *10* 7/8 **VWG-4** *11.5* 7/8	**VWH-1** *14* 7/9 **VWH-2** *15* 8/10 **VWH-3** *16* 8/9 **VWJ-1** *7.5* 8/9 **VWJ-2** *9* 8/10 **VWK-1** *22.5* 9/10	**VWC-2** *5.5* 4/6 **VWD-3** *7* 5/6 **VWE-3** *5.5* 5/7 **VWH-3** *13* 7/9 **VWI-1** *17* 9/10 **VWI-2** *18* 9/10	**VWK-3** *23.5* 9/10										
X	**VWD-1** *7.5* 5/7	**VWC-1** *5* 4/6 **VWD-2** *6.5* 5/7 **VWF-1** *5* 6/7 **VWF-2** *7.5* 6/8 **VWG-1** *7* 7/8	**VWG-2** *8.5* 7/8 **VWG-3** *10* 7/8 **VWG-4** *11.5* 7/8 **VWH-1** *14* 7/9 **VWH-2** *15* 8/9	**VWH-3** *16* 8/9 **VWJ-1** *7.5* 8/9 **VWK-1** *22.5* 9/10	**VWC-2** *5.5* 4/6 **VWD-3** *7* 5/6 **VWD-4** *8* 5/7 **VWG-1** *5.5* 6/8 **VWG-4** *9* 6/8	**VWH-2** *12* 7/9 **VWH-3** *13* 7/9 **VWI-1** *17* 9/10 **VWI-2** *18* 9/10 **VWJ-2** *7* 8/9	**VWK-2** *20.5* 9/10 **VWK-3** *23.5* 9/10										
XI		**VWD-1** *5.5* 5/6 **VWF-1** *5* 6/7 **VWG-1** *7* 7/8 **VWG-2** *8.5* 7/8 **VWH-2** *15* 8/10			**VWD-2** *5* 5/6 **VWD-3** *7* 5/6 **VWD-4** *8* 5/7 **VWF-2** *6* 6/7 **VWG-1** *5.5* 6/8	**VWG-3** *8* 6/8 **VWG-4** *9* 6/8 **VWH-1** *11.5* 7/8 **VWH-2** *12* 7/9 **VWH-3** *13* 7/9	**VWI-1** *17* 9/10 **VWI-2** *18* 9/10 **VWK-1** *18* 8/10 **VWK-2** *20.5* 9/10	**VWK-2** *17* 8/10 **VWK-3** *19.5* 8/10									
XII					**VWG-1** *5.5* 6/8 **VWG-2** *7* 6/8 **VWG-3** *8* 6/8 **VWG-4** *9* 6/8	**VWH-1** *11.5* 7/8 **VWH-2** *12* 7/9 **VWH-3** *13* 7/9 **VWI-1** *17* 9/10	**VWI-2** *18* 9/10 **VWK-1** *18* 8/10 **VWK-2** *20.5* 9/10	**VWI-1** *14* 8/10 **VWI-2** *15* 8/10 **VWK-2** *17* 8/10 **VWK-3** *19.5* 8/10									
XIII					**VWG-1** *5.5* 6/8 **VWG-2** *7* 6/8 **VWG-3** *8* 6/8	**VWG-4** *9* 6/8 **VWH-1** *11.5* 7/8 **VWH-2** *12* 7/9	**VWH-3** *13* 7/9 **VWI-1** *17* 9/10	**VWI-1** *14* 8/10 **VWI-2** *15* 8/10 **VWK-1** *15* 8/9	**VWK-2** *17* 8/10 **VWK-3** *19.5* 8/10		**VWK-3** *17* 8/9						
XIV								**VWI-1** *14* 8/10 **VWI-2** *15* 8/10 **VWH-1** *9.5* 6/8	**VWH-2** *10* 7/8 **VWH-3** *11* 7/8 **VWK-1** *15* 8/9	**VWK-2** *17* 8/10 **VWK-3** *19.5* 8/10	**VWK-2** *14.5* 8/9 **VWK-3** *17* 8/9						
XV								**VWH-1** *9.5* 6/8 **VWH-2** *10* 7/8	**VWH-3** *11* 7/8 **VWI-1** *14* 8/10	**VWI-2** *15* 8/10 **VWK-1** *15* 8/9	**VWK-2** *14.5* 8/9 **VWK-3** *17* 8/9						
XVI								**VWI-1** *14* 8/10 **VWK-1** *15* 8/9			**VWI-1** *12* 8/9 **VWI-2** *13* 8/9	**VWK-1** *13* 7/9 **VWK-2** *14.5* 8/9	**VWK-3** *17* 8/9	**VWK-3** *14.5* 7/9		
XVII								**VWK-1** *15* 8/9			**VWI-1** *12* 8/9 **VWI-2** *13* 8/9	**VWK-1** *13* 7/9 **VWK-2** *14.5* 8/9		**VWK-3** *14.5* 7/9		
XVIII											**VWI-1** *12* 8/9	**VWK-2** *14.5* 8/9		**VWI-2** *11.5* 7/9	**VWK-2** *13* 7/9	**VWK-3** *14.5* 7/9
XIX														**VWK-2** *13* 7/9	**VWK-3** *14.5* 7/9	

WARP ENGINE TYPES
Tandem Nacelle Use

Warp Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Stress Column (Eng/SS)	SS Requirememnt	Availability	Cost (MCr)	Year
VWA-1	5,300	7 ea.	VMC-3	C/D	2.2	LLL/58	7	2235
VWA-2	5,300	8 ea.	VMC-5	C/D	2.2	LLL/56	7	2241
VWA-3	8,000	10 ea.	VMC-5	D/E	2.2	RRR/55	10	2244
VWB-1	52,000	13 ea.	VMC-5	E/F	4.2	RRR/50	194	2241
VWB-2	52,000	9 ea.	VMC-4	E/F	4.2	LLL/51	187	2247
VWC-1	76,000	14 ea.	VMC-7	E/G	6.2	RRR/52	286	2244
VWC-2	76,000	20 ea.	VMC-8	E/G	6.2	RRR/28	302	2245
VWD-1	84,000	16 ea.	VMC-8	F/G	8	RRR/44	322	2245
VWD-2	84,000	18 ea.	VMC-8	F/G	8	RRR/41	328	2251
VWD-3	84,000	24 ea.	VMC-10	F/G	8	RRR/27	344	2252
VWD-4	84,000	28 ea.	VMC-11	F/G	8	RRR/31	357	2257
VWE-1	60,000	15 ea.	VMC-8	E/E	5.8	RRR/49	229	2247
VWE-2	60,000	17 ea.	VMC-9	E/E	5.8	RRR/32	234	2253
VWE-3	60,000	19 ea.	VMC-9	E/E	5.8	RRR/37	236	2260
VWF-1	80,000	14 ea.	VMC-7	F/G	7.2	RRR/50	302	2250
VWF-2	80,000	21 ea.	VMC-9	F/G	7.2	RRR/16	319	2256
VWG-1	110,000	20 ea.	VMC-9	E/F	9.2	RRR/26	581	2252
VWG-2	110,000	24 ea.	VMC-10	E/F	9.2	RRR/21	601	2259
VWG-3	110,000	28 ea.	VMC-11	E/F	9.2	RRR/24	621	2263
VWG-4	110,000	32 ea.	VMC-12	F/G	9.2	RRR/26	641	2278
VWH-1	165,000	40 ea.	VMC-14	E/F	13.4	RRR/23	1,272	2332
VWH-2	165,000	42 ea.	VIC-3	E/F	13.4	RRR/31	1,290	2333
VWH-3	165,000	45 ea.	VIC-3	E/F	13.4	RRR/19	1,316	2334
VWI-1	240,700	60 ea.	VIC-3	D/F	20.4	RRR/20	2,541	2340
VWI-2	240,700	64 ea.	VIC-3	D/F	20.4	RRR/8	2,605	2343
VWJ-1	77,000	21 ea.	VMC-14	C/D	6.4	RRR/18	306	2361
VWJ-2	77,000	25 ea.	VMC-14	C/D	6.4	RRR/21	317	2362
VWK-1	230,000	63 ea.	VIC-3	C/D	19	RRR/6	2,473	2365
VWK-2	230,000	72 ea.	VIC-3	C/E	19	RRR/2	2,610	2366
VWK-3	230,000	82 ea.	VIC-5	D/E	19	RRR/1	2,764	2369

MOVEMENT POINT RATIO TABLE: TANDEM WARP ENGINE

Movement Point Ratios

Ship Class	1/1	2/1		3/1			4/1			5/1			7/1		8/1	9/1
II	**VWA-1** *20* 4/5	**VWA-2** *11.5* 4/6		**VWA-2** *7.5* 3/5	**VWA-3** *9* 4/6											
III		**VWA-1** *10* 3/5		**VWA-3** *9* 4/6			**VWA-2** *5.5* 3/4			**VWA-2** *4.5* 2/4						
IV				**VWA-3** *9* 4/6			**VWA-3** *7* 4/5									
V		**VWB-1** *18.5* 5/6	**VWB-2** *13* 6/7	**VWA-3** *9* 4/6			**VWA-3** *7* 4/5									
VI		**VWB-2** *13* 6/7		**VWB-1** *12.5* 4/6 **VWE-1** *14* 7/8	**VWE-2** *16* 7/8 **VWE-3** *18* 7/8		**VWA-3** *7* 4/5									
VII		**VWB-2** *13* 6/7 **VWC-1** *20* 6/7 **VWF-1** *20* 7/9		**VWB-1** *12.5* 4/6 **VWC-2** *19* 6/7 **VWD-1** *15* 6/8	**VWD-2** *17* 6/8 **VWE-1** *14* 7/8 **VWE-2** *16* 7/8	**VWE-3** *18* 7/8 **VWF-2** *20* 7/9	**VWD-3** *17* 6/8 **VWD-4** *20* 7/8 **VWJ-1** *15* 8/10	**VWJ-2** *18* 8/10								
VIII		**VWC-1** *20* 6/7 **VWF-1** *20* 7/9		**VWB-2** *8.5* 5/7 **VWC-2** *19* 6/7 **VWD-1** *15* 6/8	**VWD-2** *17* 6/8 **VWE-1** *14* 7/8 **VWF-2** *20* 7/9	**VWG-1** *19* 8/9	**VWB-1** *9* 4/5 **VWD-3** *17* 6/8 **VWD-4** *20* 7/8	**VWE-2** *12* 6/8 **VWE-3** *13.5* 6/8 **VWG-2** *17* 8/9	**VWG-3** *20* 8/9 **VWJ-1** *15* 8/10 **VWJ-2** *18* 8/10	**VWG-4** *18* 8/9						
IX				**VWB-2** *8.5* 5/7 **VWC-1** *13.5* 5/7 **VWC-2** *19* 6/7 **VWD-1** *15* 6/8	**VWF-1** *13.5* 7/8 **VWG-1** *19* 8/9		**VWB-1** *9* 4/5 **VWD-2** *13* 6/7 **VWD-3** *17* 6/8 **VWE-1** *11* 6/8	**VWE-2** *12* 6/8 **VWE-3** *13.5* 6/8 **VWF-2** *15* 7/8 **VWG-2** *17* 8/9	**VWG-3** *20* 8/9 **VWJ-1** *15* 8/10 **VWJ-2** *18* 8/10	**VWD-4** *16* 6/8 **VWG-4** *18* 8/9 **VWJ-2** *14* 8/9					
X				**VWC-1** *13.5* 5/7 **VWF-1** *13.5* 7/8			**VWB-2** *6.5* 5/6 **VWC-2** *14* 5/7 **VWD-1** *11.5* 6/7 **VWD-2** *13* 6/7	**VWE-1** *11* 6/8 **VWE-2** *12* 6/8 **VWF-2** *15* 7/8 **VWG-1** *14* 7/9	**VWG-2** *17* 8/9 **VWJ-1** *15* 8/10 **VWJ-2** *18* 8/10	**VWB-1** *7.5* 3/5 **VWD-3** *14* 6/7 **VWD-4** *16* 6/8 **VWE-3** *11* 6/7	**VWG-3** *16* 7/9 **VWG-4** *18* 8/9 **VWJ-2** *14* 8/9					
XI				**VWF-1** *13.5* 7/8			**VWB-2** *6.5* 5/6 **VWC-1** *10* 5/6 **VWC-2** *14* 5/7 **VWD-1** *11.5* 6/7	**VWG-1** *14* 7/9 **VWJ-1** *15* 8/10		**VWB-1** *7.5* 3/5 **VWD-2** *10* 5/7 **VWD-3** *14* 6/7 **VWE-1** *8.5* 6/7	**VWE-2** *10* 6/7 **VWE-3** *11* 6/7 **VWF-2** *12* 6/8 **VWG-2** *14* 7/9	**VWG-3** *16* 7/9 **VWJ-2** *14* 8/9	**VWD-4** *13.5* 6/7 **VWG-4** *15* 7/9 **VWJ-2** *12* 7/9		**VWH-1** *16.5* 8/9 **VWH-2** *17* 8/9	
XII							**VWC-1** *10* 5/6 **VWF-1** *10* 6/8 **VWG-1** *14* 7/9			**VWB-1** *7.5* 3/5 **VWB-2** *5* 4/6 **VWC-2** *11.5* 5/6 **VWD-1** *9* 5/7	**VWD-2** *10* 5/7 **VWE-1** *8.5* 6/7 **VWE-2** *10* 6/7 **VWF-2** *12* 6/8	**VWG-2** *14* 7/9 **VWJ-1** *12* 8/9	**VWD-3** *11.5* 5/7 **VWD-4** *13.5* 6/7 **VWE-3** *9* 5/7 **VWG-3** *13.5* 7/8	**VWG-4** *15* 7/9 **VWJ-2** *12* 7/9	**VWH-1** *16.5* 8/9	**VWH-2** *15* 7/9 **VWH-3** *16* 8/9

MOVEMENT POINT RATIO TABLE: TANDEM WARP 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
XIII	**VWC-1** *8* 4/6 **VWF-1** *8* 6/7 **VWG-1** *11.5* 7/8 **VWJ-1** *12* 8/9	**VWC-2** *9.5* 4/6 **VWD-1** *7.5* 5/6 **VWD-2** *8.5* 5/6 **VWE-1** *7* 5/7 **VWE-2** *8* 5/7	**VWE-3** *9* 5/7 **VWF-2** *10* 6/7 **VWG-2** *11.5* 7/8 **VWG-3** *13.5* 7/8 **VWJ-2** *12* 7/9	**VWD-3** *10* 5/6 **VWD-4** *11.5* 5/7 **VWG-4** *13* 7/8		**VWH-1** *14* 7/9 **VWH-2** *15* 7/9		**VWH-3** *14* 7/9								
XIV	**VWC-1** *8* 4/6 **VWF-1** *8* 6/7 **VWG-1** *11.5* 7/8 **VWJ-1** *12* 8/9	**VWC-2** *9.5* 4/6 **VWD-1** *7.5* 5/6 **VWD-2** *8.5* 5/6 **VWE-1** *7* 5/7 **VWE-2** *8* 5/7	**VWE-3** *9* 5/7 **VWF-2** *10* 6/7 **VWG-2** *11.5* 7/8 **VWG-3** *13.5* 7/8 **VWJ-2** *12* 7/9	**VWD-3** *10* 5/6 **VWD-4** *11.5* 5/7 **VWG-4** *13* 7/8		**VWH-1** *14* 7/9		**VWH-2** *13.5* 7/8 **VWH-3** *14* 7/9		**VWK-1** *18* 8/10		**VWK-2** *19* 8/10		**VWK-2** *17* 8/9	**VWK-3** *18* 8/10	
XV	**VWC-1** *8* 4/6 **VWF-1** *8* 6/7 **VWJ-1** *12* 8/9	**VWC-2** *9.5* 4/6 **VWD-1** *7.5* 5/6 **VWD-2** *8.5* 5/6 **VWF-2** *10* 6/7	**VWG-1** *9.5* 6/8 **VWG-2** *11.5* 7/8 **VWJ-2** *12* 7/9	**VWD-3** *10* 5/6 **VWD-4** *11.5* 5/7 **VWG-3** *11.5* 6/8 VWG-4 **13** *7/8*		**VWG-4** *11.5* 6/8		**VWH-1** *12.5* 7/8 **VWH-2** *13.5* 7/8		**VWH-3** *13* 7/8 **VWI-1** *17* 8/10 **VWK-1** *18* 8/10		**VWI-2** *16.5* 8/10 **VWK-2** *19* 8/10		**VWK-2** *17* 8/9	**VWK-3** *18* 8/10	
XVI		**VWG-1** *9.5* 6/8		**VWG-2** *10* 6/8 **VWG-3** *11.5* 6/8		**VWG-4** *11.5* 6/8		**VWH-1** *12.5* 7/8 **VWH-2** *13.5* 7/8		**VWH-1** *11.5* 6/8 **VWH-2** *12* 6/8	**VWH-3** *13* 7/8 **VWI-1** *17* 8/10	**VWI-1** *15.5* 8/9 **VWI-2** *16.5* 8/10	**VWK-1** *16.5* 8/9 **VWK-2** *19* 8/10	**VWI-2** *15* 8/9 **VWK-2** *17* 8/9	**VWK-3** *18* 8/10	
XVII		**VWG-1** *9.5* 6/8		**VWG-2** *10* 6/8 **VWG-3** *11.5* 6/8		**VWG-4** *11.5* 6/8		**VWH-1** *12.5* 7/8 **VWH-2** *13.5* 7/8		**VWH-1** *11.5* 6/8 **VWH-2** *12* 6/8	**VWH-3** *13* 7/8 **VWI-1** *17* 8/10	**VWI-1** *15.5* 8/9 **VWI-2** *16.5* 8/10	**VWK-1** *16.5* 8/9 **VWK-2** *19* 8/10	**VWI-2** *15* 8/9 **VWK-2** *17* 8/9	**VWK-3** *18* 8/10	
XVIII										**VWH-1** *11.5* 6/8 **VWH-2** *12* 6/8	**VWH-3** *13* 7/8	**VWI-1** *15.5* 8/9 **VWK-1** *16.5* 8/9	**VWK-2** *19* 8/10	**VWI-2** *15* 8/9 **VWK-2** *17* 8/9	**VWK-3** *18* 8/10	**VWK-3** *17* 8/9
XIX										**VWH-1** *11.5* 6/8 **VWH-2** *12* 6/8		**VWH-3** *11.5* 6/8 **VWI-1** *15.5* 8/9	**VWK-1** *16.5* 8/9	**VWI-2** *15* 8/9 **VWK-2** *17* 8/9	**VWK-3** *18* 8/10	**VWK-3** *17* 8/9
XX										**VWH-1** *11.5* 6/8 **VWH-2** *12* 6/8		**VWI-1** *15.5* 8/9		**VWH-3** *11* 6/7 **VWI-2** *15* 8/9 **VWK-1** *15* 7/9 **VWK-2** *17* 8/9	**VWK-3** *18* 8/10	**VWK-3** *17* 8/9

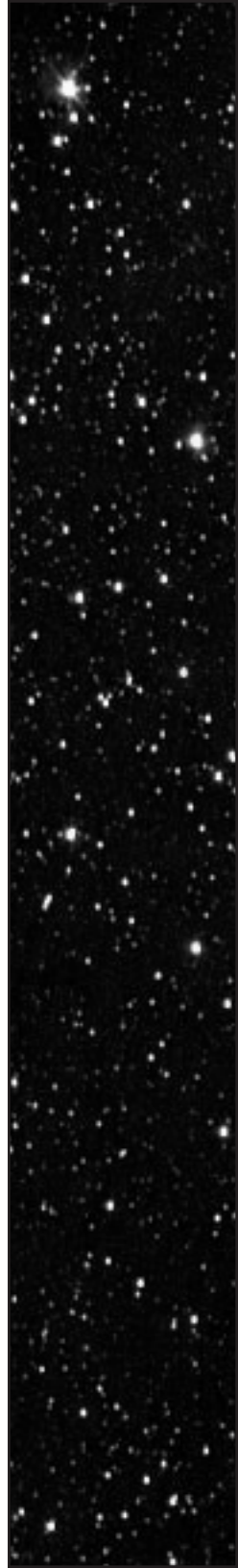
IMPULSE ENGINE TYPES

Impulse Engine Type	Total Mass (mt)	Power Units Available	Control Computer Required	Ship Classes Powered	SS Requirememnt	Availability	Cost (MCr)	Year
VIA-1	96	1	VMC-1	I-II	0.1	LLL/98	3	2235
VIA-2	96	2	VMC-1	I-III	0.1	LLL/91	4	2235
VIA-3	96	3	VMC-2	II-IV	0.1	LLL/89	8	2236
VIB-1	259	1	VMC-1	III-V	0.1	LLL/96	3	2236
VIB-2	259	3	VMC-2	III-VI	0.1	LLL/87	7	2237
VIB-3	259	4	VMC-2	III-VII	0.1	LLL/85	6	2240
VIC-1	343	1	VMC-2	III-VII	0.1	LLL.96	3	2237
VIC-2	343	2	VMC-2	II-IV	0.1	LLL/90	5	2241
VIC-3	343	4	VMC-2	IV-VII	0.1	LLL/88	8	2242
VIC-4	343	6	VMC-2	VII-XII	0.1	LLL/79	9	2246
VID-1	340	2	VMC-2	II-V	0.1	LLL/85	4	2243
VID-2	340	4	VMC-2	VIII-XIII	0.1	LLL/76	8	2248
VID-3	340	8	VMC-4	VI-XIII	0.1	LLL/61	17	2252
VIE-1	500	3	VMC-2	V-X	0.1	LLL/72	7	2245
VIE-2	500	6	VMC-2	IX-XV	0.1	LLL/75	9	2250
VIE-3	500	10	VMC-5	VIII-XIV	0.1	RRR/57	23	2255
VIE-4	500	12	VMC-4	VIII-XIII	0.1	RRR/49	19	2259
VIF-1	1,255	7	VMC-3	VIII-XVII	0.1	LLL/60	13	2248
VIF-2	1,255	15	VMC-6	IX-XVIII	0.1	RRR/44	29	2254
VIF-3	1,255	18	VMC-6	X-XVIII	0.1	RRR/39	32	2262
VIF-4	1,255	20	VMC-6	XI-XVI	0.1	RRR/25	34	2264
VIG-1	2,307	16	VMC-5	VIII-XIV	0.1	RRR/30	22	2259
VIG-2	2,307	20	VMC-6	XI-XVII	0.1	RRR/24	31	2263
VIG-3	2,307	24	VMC-7	XI-XVIII	0.1	RRR/21	42	2269
VIG-4	2,307	28	VMC-9	XII-XIX	0.1	RRR/18	57	2339
VIG-5	2,307	30	VMC-9	XIII-XX	0.1	RRR/17	53	2345

MOVEMENT POINT RATIO TABLE: IMPLULSE ENGINE

Movement Point Ratios

Ship Class	1/2		1/1			2/1			3/1			4/1			5/1			6/1
I	VIA-1 *3*	VIA-2 *5.5*	VIA-1 *1.5*	VIA-2 *3*		VIA-1 *1*	VIA-2 *1.5*											
II			VIA-1 *1.5* VIA-2 *3*	VIA-3 *4* VIC-2 *3*	VID-1 *3*	VIA-1 *1* VIA-2 *1.5*	VIA-3 *2* VIC-2 *1.5*	VID-1 *1.5*	VIA-2 *1* VIA-3 *1.5*	VIC-2 *1* VID-1 *1*								
III			VIA-3 *4* VIB-1 *1.5* VIB-2 *4*	VIB-3 *5.5* VIC-1 *1.5* VIC-2 *3*	VID-1 *3*	VIA-2 *1.5* VIA-3 *2* VIB-1 *1*	VIB-2 *2* VIB-3 *3* VIC-1 *1*	VIC-2 *1.5* VID-1 *1.5*	VIA-2 *1* VIA-3 *1.5* VIB-2 *1.5*	VIB-3 *2* VIC-2 *1* VID-1 *1*		VIA-3 *1* VIB-2 *1* VIB-3 *1.5*	VIC-2 *0.5* VID-1 *0.5*		VIA-3 *1* VIB-2 *1* VIB-3 *1*			
IV			VIA-3 *4* VIB-1 *1.5* VIB-2 *4*	VIB-3 *5.5* VIC-1 *1.5* VIC-2 *3*	VIC-3 *5.5* VID-1 *3*	VIA-3 *2* VIB-1 *1* VIB-2 *2*	VIB-3 *3* VIC-1 *1* VIC-2 *1.5*	VIC-3 *3* VID-1 *1.5*	VIA-3 *1.5* VIB-2 *1.5* VIB-3 *2*	VIC-2 *1* VIC-3 *2* VID-1 *1*		VIA-3 *1* VIB-2 *1* VIB-3 *1.5*	VIC-2 *0.5* VIC-3 *1.5* VID-1 *0.5*		VIA-3 *1* VIB-3 *1*			
V			VIB-1 *1.5* VIB-2 *4* VIB-3 *5.5*	VIC-1 *1.5* VIC-3 *5.5* VID-1 *3*	VIE-1 *4*	VIB-1 *1* VIB-2 *2* VIB-3 *3*	VIC-1 *1* VIC-3 *3* VID-1 *1.5*	VIE-1 *2*	VIB-2 *1.5* VIB-3 *2* VIC-3 *2*	VID-1 *1* VIE-1 *1.5*		VIB-3 *1.5* VIC-3 *1.5*			VIB-3 *1*			
VI			VIB-2 *4* VIB-3 *5.5*	VIC-1 *1.5* VIC-3 *5.5*	VID-3 *11.5* VIE-1 *4*	VIB-2 *2* VIB-3 *3*	VIC-1 *1* VIC-3 *3*	VID-3 *6* VIE-1 *2*	VIB-2 *1.5* VIB-3 *2*	VIC-3 *2* VID-3 *4*	VIE-1 *1.5*	VIB-3 *1.5* VIC-3 *1.5*			VIB-3 *1*			
VII						VIB-3 *3* VIC-1 *1*	VIC-3 *3* VIC-4 *4*	VID-3 *6* VIE-1 *2*	VIB-3 *2* VIC-3 *2*	VIC-4 *3* VID-3 *4*	VIE-1 *1.5*	VIB-3 *1.5* VIC-3 *1.5*	VIC-4 *2* VID-3 *3*	VIE-1 *1*	VIB-3 *1*			
VIII						VIC-4 *4* VID-2 *3* VID-3 *6*	VIE-1 *2* VIE-3 *7* VIE-4 *8.5*	VIF-1 *5* VIG-1 *11.5*	VIC-4 *3* VID-2 *2* VID-3 *4*	VIE-1 *1.5* VIE-3 *5* VIE-4 *5.5*	VIF-1 *3.5* VIG-1 *7.5*	VIC-4 *2* VID-2 *1.5* VID-3 *3*	VIE-1 *1* VIE-3 *3.5* VIE-4 *4*	VIF-1 *2.5* VIG-1 *5.5*	VIC-4 *1.5* VID-2 *1* VID-3 *2*	VIE-1 *1* VIE-3 *3* VIE-4 *3.5*	VIF-1 *2* VIG-1 *4.5*	
IX									VIC-4 *3* VID-2 *2* VID-3 *4* VIE-1 *1.5*	VIE-2 *3* VIE-3 *5* VIE-4 *5.5* VIF-1 *3.5*	VIF-2 *7* VIG-1 *7.5*	VIC-4 *2* VID-2 *1.5* VID-3 *3* VIE-1 *1*	VIE-2 *2* VIE-3 *3.5* VIE-4 *4* VIF-1 *2.5*	VIF-2 *5* VIG-1 *5.5*	VID-3 *2* VIE-1 *1* VIE-2 *1.5* VIE-3 *3*	VIE-4 *3.5* VIF-1 *2* VIF-2 *4* VIG-1 *4.5*		
X									VIC-4 *3* VID-2 *2* VID-3 *4* VIE-1 *1.5*	VIE-2 *3* VIE-3 *5* VIE-4 *5.5* VIF-1 *3.5*	VIF-2 *7* VIF-3 *8.5* VIG-1 *7.5*	VID-3 *3* VIE-1 *1* VIE-2 *2* VIE-3 *3.5*	VIE-4 *4* VIF-1 *2.5* VIF-2 *5* VIF-3 *6.5*	VIG-1 *5.5*	VIE-1 *1* VIE-2 *1.5* VIE-3 *3* VIE-4 *3.5*	VIF-1 *2* VIF-2 *4* VIG-1 *4.5*		
XI									VID-3 *4* VIE-4 *5.5* VIF-1 *3.5* VIF-2 *7* VIF-3 *8.5*	VIF-4 *9* VIG-2 *9* VIG-3 *11.5*		VIC-4 *2* VID-2 *1.5* VID-3 *3* VIE-2 *2* VIE-3 *3.5*	VIE-4 *4* VIF-1 *2.5* VIF-2 *5* VIF-3 *6.5* VIF-4 *7*	VIG-1 *5.5* VIG-2 *7* VIG-3 *8.5*	VIC-4 *1.5* VID-2 *1* VID-3 *2* VIE-2 *1.5* VIE-3 *3*	VIE-4 *3.5* VIF-1 *2* VIF-2 *4* VIF-3 *5* VIF-4 *5.5*	VIG-1 *4.5* VIG-2 *5.5* VIG-3 *7*	VIF-1 *1.5* VIF-2 *3.5*



MOVEMENT POINT RATIO TABLE: IMPLULSE ENGINE

Movement Point Ratios

Ship Class	3/1	4/1		5/1			6/1			7/1			8/1		9/1	10/1	11/1	12/1	13/1	14/1
XII	VIE-4 *5.5* VIF-1 *3.5* VIF-2 *7* VIF-3 *8.5* VIF-4 *9* VIG-2 *9*	VIC-4 *2* VID-2 *1.5* VID-3 *3* VIE-2 *2* VIE-3 *3.5* VIE-4 *4* VIF-1 *2.5* VIF-2 *5*	VIF-3 *6.5* VIF-4 *7* VIG-1 *5.5* VIG-2 *7* VIG-3 *8.5* VIG-4 *10*	VIC-4 *1.5* VID-2 *1* VID-3 *2* VIE-2 *1.5* VIE-3 *3* VIE-4 *3.5* VIF-1 *2* VIF-2 *4*	VIF-3 *5* VIF-4 *5.5* VIG-1 *4.5* VIG-2 *5.5* VIG-3 *7* VIG-4 *8*		VIE-2 *1.5* VIE-3 *2* VIE-4 *3* VIF-1 *1.5* VIF-2 *3.5* VIF-3 *4* VIF-4 *5* VIG-1 *4*	VIG-2 *5* VIG-3 *6* VIG-4 *6.5*		VIG-4 *6*									
XIII				VID-2 *1* VID-3 *2* VIE-2 *1.5* VIE-3 *3* VIE-4 *3.5*	VIF-1 *2* VIF-2 *4* VIF-3 *5* VIF-4 *5.5* VIG-2 *5.5*	VIG-3 *7* VIG-4 *8* VIG-5 *8.5*	VIE-3 *2* VIE-4 *3* VIF-1 *1.5* VIF-2 *3.5* VIF-3 *4*	VIF-4 *5* VIG-1 *4* VIG-2 *5* VIG-3 *6* VIG-4 *6.5*	VIG-5 *7*	VIF-1 *1.5* VIF-2 *3* VIF-3 *3.5* VIF-4 *4* VIG-1 *3*	VIG-2 *4* VIG-3 *5* VIG-4 *6* VIG-5 *6*		VIG-5 *5.5*		VIG-5 *5*					
XIV				VIE-2 *1.5* VIE-3 *3* VIF-1 *2* VIF-2 *4*	VIF-3 *5* VIF-4 *5.5* VIG-2 *5.5* VIG-3 *7*	VIG-4 *8*	VIE-2 *1.5* VIE-3 *2* VIF-1 *1.5* VIF-2 *3.5*	VIF-3 *4* VIF-4 *5* VIG-1 *4* VIG-2 *5*	VIG-3 *6* VIG-4 *6.5* VIG-5 *7*	VIE-3 *2* VIF-1 *1.5* VIF-2 *3* VIF-3 *3.5*	VIF-4 *4* VIG-1 *3* VIG-2 *4* VIG-3 *5*	VIG-4 *6* VIG-5 *6*	VIG-4 *5* VIG-5 *5.5*		VIG-4 *4.5* VIG-5 *5*	VIG-5 *4*	VIG-5 *4*	VIG-5 *3.5*	VIG-5 *3*	
XV				VIE-2 *1.5* VIF-1 *2* VIF-2 *4*	VIF-3 *5* VIF-4 *5.5* VIG-2 *5.5*	VIG-3 *7* VIG-4 *8*	VIF-1 *1.5* VIF-2 *3.5* VIF-3 *4*	VIF-4 *5* VIG-2 *5* VIG-3 *6*	VIG-4 *6.5*	VIF-3 *3.5* VIF-4 *4* VIG-2 *4*	VIG-3 *5* VIG-4 *6* VIG-5 *6*		VIG-4 *5* VIG-5 *5.5*		VIG-4 *4.5* VIG-5 *5*	VIG-5 *4*	VIG-5 *4*	VIG-5 *3.5*	VIG-5 *3*	
XVI							VIF-1 *1.5* VIF-2 *3.5* VIF-3 *4*	VIF-4 *5* VIG-2 *5* VIG-3 *6*	VIG-4 *6.5*	VIF-1 *1.5* VIF-2 *3* VIF-3 *3.5*	VIF-4 *4* VIG-2 *4* VIG-3 *5*	VIG-4 *6*	VIF-4 *3.5* VIG-2 *3.5* VIG-3 *4*	VIG-4 *5* VIG-5 *5.5*	VIG-4 *4.5* VIG-5 *5*	VIG-4 *4* VIG-5 *4*	VIG-4 *3.5* VIG-5 *4*	VIG-5 *3.5*	VIG-5 *3*	
XVII							VIF-1 *1.5* VIF-2 *3.5*	VIF-3 *4* VIG-2 *5*	VIG-3 *6*	VIF-1 *1.5* VIF-2 *3*	VIF-3 *3.5* VIG-2 *4*	VIG-3 *5* VIG-4 *6*	VIG-2 *3.5* VIG-3 *4*	VIG-4 *5*	VIG-4 *4.5* VIG-5 *5*	VIG-4 *4* VIG-5 *4*	VIG-4 *3.5* VIG-5 *4*	VIG-5 *3.5*	VIG-5 *3*	
XVIII										VIG-4 *6*			VIG-4 *5*		VIG-4 *4.5*	VIG-4 *4* VIG-5 *4*	VIG-4 *3.5* VIG-5 *4*	VIG-4 *3.5* VIG-5 *3.5*	VIG-5 *3*	VIG-5 *3*
XIX													VIG-4 *5*		VIG-4 *4.5*	VIG-4 *4*	VIG-4 *3.5* VIG-5 *4*	VIG-4 *3.5* VIG-5 *3.5*	VIG-5 *3*	VIG-5 *3*
XX																VIG-4 *4*	VIG-4 *3.5* VIG-5 *4*	VIG-4 *3.5* VIG-5 *3.5*	VIG-5 *3*	VIG-5 *3*

SHIELD GENERATOR TYPES

Shield Generator Type	Total Mass (mt)	Control Computer Requirement	Shield Efficiency Rating	SS Requirememnt	Availability	Cost (MCr)	Year
VSA	190	VMC-1	1	1.4	RRR/93	3	2235
VSB	240	VMC-3	2	2	RRR/90	8	2236
VSC	287	VMC-5	3	2.3	RRR/71	13	2242
VSD	239	VMC-6	1	1.9	RRR/80	4	2243
VSE	359	VMC-7	2	3	RRR/73	11	2245
VSF	308	VMC-6	3	2.3	RRR/48	15	2254
VSG	333	VMC-7	2	2.5	RRR/62	11	2255
VSH	426	VMC-8	1	3.1	RRR/77	7	2256
VSI	348	VMC-6	3	1.9	RRR/48	18	2259
VSJ	332	VMC-10	4	2.5	RRR/32	21	2263
VSK	392	VMC-7	2	1.9	RRR/61	13	2264
VSL	379	VMC-8	3	2.8	RRR/46	18	2267
VSM	426	VMC-8	3	3.1	RRR/43	21	2268
VSN	416	VMC-7	4	2.2	RRR/28	27	2274
VSO	565	VMC-9	3	3.8	RRR/31	29	2275
VSP	691	VMC-9	1	3.4	RRR/40	13	2275
VSQ	516	VMC-11	4	3.4	RRR/18	34	2286
VSR	1,180	VMC-11	3	4.2	LRL/52	32	2332
VSS	1,890	VMC-14	4	6.8	RRR/45	51	2335
VST	3,350	VIC-3	4	5.2	RRR/19	68	2337
VSU	5,850	VIC-7	5	12.9	RRR/6	139	2370
VSV	6,280	VIC-7	5	14.5	RRR/4	147	2372
VSW	3,240	VIC-7	3	7.6	RRR/10	84	2376

MAXIMUM SHIELD POWER
Shield Types/Shield Point Ratios

Ship Class	1/1				1/2				1/3								1/4					1/5	
	VSA	VSD	VSH	VSP	VSB	VSE	VSG	VSK	VSC	VSF	VSI	VSL	VSM	VSO	VSR	VSW	VSJ	VSN	VSQ	VSS	VST	VSU	VSV
I	8 *11.5*	10 *14*	18 *25.5*	30 *43*	10 *7*	15 *10.5*	14 *10*	17 *12*	12 *5.5*	13 *6*	15 *7*	16 *7.5*	18 *8.5*	24 *11.5*	28 *13*	74 *35*	14 *5*	18 *6.5*	22 *8*	34 *12*	45 *16*	74 *21*	78 *22*
II	8 *11.5*	10 *14*	18 *25.5*	30 *43*	10 *7*	15 *10.5*	14 *10*	17 *12*	12 *5.5*	13 *6*	15 *7*	16 *7.5*	18 *8.5*	24 *11.5*	28 *13*	74 *35*	14 *5*	18 *6.5*	22 *8*	34 *12*	45 *16*	74 *21*	78 *22*
III	8 *11.5*	10 *14*	18 *25.5*	29 *41*	10 *7*	15 *10.5*	14 *10*	17 *12*	12 *5.5*	13 *6*	15 *7*	16 *7.5*	18 *8.5*	23 *11*	28 *13*	74 *35*	14 *5*	17 *6*	22 *8*	34 *12*	45 *16*	74 *21*	78 *22*
IV	8 *11.5*	10 *14*	18 *25.5*	29 *41*	10 *7*	15 *10.5*	14 *10*	17 *12*	11 *5*	13 *6*	15 *7*	15 *7*	18 *8.5*	23 *11*	28 *13*	73 *34.5*	14 *5*	17 *6*	22 *8*	34 *12*	45 *16*	73 *21*	77 *22*
V	8 *11.5*	10 *14*	17 *24*	28 *40*	10 *7*	15 *10.5*	14 *10*	17 *12*	11 *5*	13 *6*	15 *7*	15 *7*	17 *8*	23 *11*	28 *13*	73 *34.5*	14 *5*	17 *6*	21 *7.5*	34 *12*	45 *16*	73 *21*	77 *22*
VI	8 *11.5*	10 *14*	17 *24*	28 *40*	10 *7*	14 *10*	14 *10*	17 *12*	11 *5*	13 *6*	14 *6.5*	15 *7*	17 *8*	22 *10.5*	28 *13*	73 *34.5*	14 *5*	17 *6*	21 *7.5*	34 *12*	45 *16*	73 *21*	77 *22*
VII	8 *11.5*	10 *14*	17 *24*	27 *38.5*	10 *7*	14 *10*	14 *10*	17 *12*	11 *5*	13 *6*	14 *6.5*	15 *7*	17 *8*	22 *10.5*	28 *13*	73 *34.5*	14 *5*	16 *5.5*	21 *7.5*	33 *12*	45 *16*	73 *21*	77 *22*
VIII	8 *11.5*	9 *13*	17 *24*	27 *38.5*	9 *6.5*	14 *10*	14 *10*	17 *12*	11 *5*	13 *6*	14 *6.5*	14 *6.5*	17 *8*	21 *10*	28 *13*	73 *34.5*	14 *5*	16 *5.5*	21 *7.5*	33 *12*	45 *16*	73 *21*	77 *22*
IX	8 *11.5*	9 *13*	17 *24*	26 *37*	9 *6.5*	14 *10*	14 *10*	17 *12*	11 *5*	13 *6*	14 *6.5*	14 *6.5*	17 *8*	21 *10*	27 *13*	73 *34.5*	14 *5*	16 *5.5*	21 *7.5*	33 *12*	45 *16*	73 *21*	76 *21.5*
X	7 *10*	9 *13*	17 *24*	26 *37*	9 *6.5*	14 *10*	14 *10*	17 *12*	10 *4.5*	13 *6*	14 *6.5*	14 *6.5*	17 *8*	21 *10*	27 *13*	72 *34*	14 *5*	16 *5.5*	21 *7.5*	33 *12*	45 *16*	72 *20.5*	76 *21.5*
XI	7 *10*	9 *13*	17 *24*	26 *37*	9 *6.5*	14 *10*	14 *10*	17 *12*	10 *4.5*	13 *6*	14 *6.5*	14 *6.5*	17 *8*	20 *9.5*	27 *13*	72 *34*	14 *5*	15 *5.5*	20 *7*	33 *12*	45 *16*	72 *20.5*	76 *21.5*
XII	7 *10*	9 *13*	17 *24*	25 *35*	9 *6.5*	14 *10*	14 *10*	17 *12*	10 *4.5*	13 *6*	14 *6.5*	13 *6*	17 *8*	20 *9.5*	27 *13*	72 *34*	14 *5*	15 *5.5*	20 *7*	33 *12*	45 *16*	72 *20.5*	76 *21.5*
XIII	7 *10*	9 *13*	16 *23*	25 *35*	9 *6.5*	14 *10*	14 *10*	16 *11.5*	10 *4.5*	13 *6*	14 *6.5*	13 *6*	16 *7.5*	20 *9.5*	27 *13*	72 *34*	14 *5*	15 *5.5*	20 *7*	33 *12*	45 *16*	72 *20.5*	76 *21.5*
XIV	7 *10*	9 *13*	16 *23*	24 *34*	9 *6.5*	14 *10*	14 *10*	16 *11.5*	10 *4.5*	13 *6*	14 *6.5*	13 *6*	16 *7.5*	19 *9*	27 *13*	72 *34*	14 *5*	14 *5*	20 *7*	33 *12*	44 *15.5*	72 *20.5*	75 *21*
XV	7 *10*	9 *13*	16 *23*	24 *34*	9 *6.5*	13 *9*	14 *10*	16 *11.5*	9 *4*	13 *6*	13 *6*	13 *6*	16 *7.5*	19 *9*	27 *13*	71 *33.5*	14 *5*	14 *5*	20 *7*	33 *12*	44 *15.5*	71 *20*	75 *21*
XVI	7 10	9 13	16 23	23 33	9 6.5	13 9	13 9	16 11.5	9 4	13 6	13 6	12 5.5	16 7.5	19 9	27 13	71 33.5	13 4.5	14 5	20 7	33 12	44 15.5	71 20	75 21
XVII	7 *10*	9 *13*	16 *23*	23 *33*	9 *6.5*	13 *9*	13 *9*	16 *11.5*	9 *4*	12 *5.5*	13 *6*	12 *5.5*	16 *7.5*	18 *8.5*	27 *13*	71 *33.5*	13 *4.5*	14 *5*	19 *6*	33 *12*	44 *15.5*	71 *20*	75 *21*
XVIII	7 *10*	9 *13*	16 *23*	22 *31*	9 *6.5*	13 *9*	13 *9*	16 *11.5*	9 *4*	12 *5.5*	13 *6*	12 *5.5*	16 *7.5*	18 *8.5*	27 *13*	71 *33.5*	13 *4.5*	13 *4.5*	19 *6*	33 *12*	44 *15.5*	71 *20*	75 *21*
XIX	7 *10*	9 *13*	16 *23*	22 *31*	9 *6.5*	13 *9*	13 *9*	16 *11.5*	9 *4*	12 *5.5*	13 *6*	12 *5.5*	16 *7.5*	18 *8.5*	27 *13*	71 *33.5*	13 *4.5*	13 *4.5*	19 *6*	32 *11.5*	44 *15.5*	71 *20*	74 *21*
XX	7 *10*	9 *13*	15 *21*	21 *30*	9 *6.5*	13 *9*	13 *9*	16 *11.5*	9 *4*	12 *5.5*	13 *6*	11 *5*	15 *7*	17 *8*	27 *13*	70 *33*	13 *4.5*	13 *4.5*	19 *6*	32 *11.5*	44 *15.5*	70 *20*	74 *21*

CONFEDERACY OF VULCAN

PHASER BEAM WEAPON TYPES

Phaser Weapon Type	Total Mass (mt)	Maximum Beam Power	+3	Damage Modifiers +2	+1	Maximum Range (Hex)	Firing Chart	Weapon Damaging Factor	SS Requirements (single / bank)	Availability	Cost (MCr)	Year
VH-1	190	2	(1-4)	(5-8)	(9-10)	10	G	1.2	0.8 / 1.1	RRI/99	28	2228
VH-2	284	3	(1-6)	(7-8)	(9-10)	10	G	1.5	1.2 / 1.7	RRI/98	42	2229
VH-3	190	2	(1-7)	(8-9)	(10-12)	12	I	1.7	0.9 / 1.3	RRI/98	28	2230
VH-4	380	4	(1-6)	(7-8)	(9-12)	12	L	2.8	1.8 / 2.5	RRI.97	57	2234
VH-5	471	5	(1-6)	(7-12)	(13-14)	14	Q	4.1	1.3 / 1.8	RRI/85	71	2235
VH-6	472	5	(1-5)	(6-15)	(16-20)	20	U	4.8	1.4 / 1.9	RRI/71	71	2254
VH-7	567	6	(1-7)	(8-15)	(16-18)	18	T	5.4	1.8 / 2.4	RRI/63	85	2256
VH-8	380	4	(1-15)	(16-22)	(23-24)	24	Y	5.8	1.8 / 2.4	RRI/60	57	2258
VH-9	662	7	(1-5)	(6-16)	(17-18)	18	T	6.1	2.3 / 3.1	RRI/51	99	2261
VH-10	664	7	(1-8)	(9-18)	(19-21)	21	V	6.5	2.5 / 3.4	RRI/50	100	2267
VH-11	761	8	(1-11)	(12-19)	(20-22)	22	X	8.3	3 / 4.2	RRI/32	114	2268
VH-12	381	3	(1-20)	(21-22)	(23-24)	24	Y	4.2	0.6 / 1	RRI/51	57	2271
VH-13	571	6	(1-12)	(13-17)	(18-20)	20	W	6.6	2.5 / 3.4	RRI/42	86	2272
VH-14	950	10	(1-11)	(12-16)	(17-20)	20	U	8.4	3.5 / 4.8	RRI/21	143	2272
VH-15	1,133	12	(1-9)	(10-18)	(19-20)	20	W	11.3	3.4 / 4.6	RRI/18	171	2276
VH-16	660	14	(1-7)	(8-14)	(15-20)	20	U	10.5	2.2 / 3.3	RRI/34	90	2333
VH-17	692	13	(1-14)	(15-20)	(21-24)	24	Y	13.2	2.3 / 3.5	RRI/35	95	2338
VH-18	930	20	(-)	(1-12)	(13-22)	22	X	16.5	3.1 / 4.7	RRI/29	127	2344
VH-19	1,260	25	(1-10)	(11-17)	(18-24)	24	Y	23.3	4.4 / 6.6	RRI/26	172	2355
VH-20	1,510	30	(1-10)	(11-17)	(18-24)	24	Y	27.5	5.3 / 8	RRI/22	206	2360
VH-21	1,760	35	(1-10)	(11-17)	(18-24)	24	Y	31.8	6.1 / 9.2	RRI/19	240	2367

HEAVY PHASER BEAM WEAPON TYPES

Phaser Weapon Type	Total Mass (mt)	Maximum Beam Power	+3	Damage Modifiers +2	+1	Maximum Range (Hex)	Firing Chart	Weapon Damaging Factor	SS Requirements (single / bank)	Availability	Cost (MCr)	Year
VHB-1	380	4	(1-6)	(7-10)	(11-12)	12	I	2.4	1.8 / 2.5	RRI/83	114	2241
VHB-2	753	8	(1-8)	(9-10)	(11-12)	12	L	4.8	2.1 / 2.7	RRI/63	226	2242
VHB-3	1,137	12	(1-14)	(15-16)	(17-18)	18	T	9.7	3.8 / 5.1	RRI/47	342	2248
VHB-4	1,505	16	(1-18)	(19-20)	(21-22)	22	X	14.9	4.1 / 5.4	RRI/31	454	2253
VHB-5	1,897	20	(1-12)	(13-18)	(19-20)	20	U	15.3	5.9 / 8	RRI/19	572	2260
VHB-6	2,279	24	(1-16)	(17-18)	(19-20)	20	W	20.9	7 / 9.5	RRI/14	686	2266

PHOTON TORPEDO WEAPON TYPES

Missile Weapon Type	Mass (mt)	Power to Arm	Damage	Range	Firing Chart	WDF	SS	Availability	Cost (MCr)	Year
VP-1	170	1	6	14	Q	3.3	0.8	RRR/83	26	2236
VP-2	230	1	8	14	Q	4.3	1.5	RRR/63	35	2240
VP-3	282	1	10	14	Q	5.4	1.3	RRR/50	42	2242
VP-4	346	1	12	16	R	7.1	2.3	RRI/42	52	2251
VP-5	406	1	14	16	R	8.3	2.9	RRI/36	61	2253
VP-6	431	1	15	16	R	8.9	2.8	RRI/33	65	2264
VP-7	461	1	16	16	S	10	3	RRI/31	69	2267
VP-8	516	1	18	18	T	11.5	3.1	RRI/28	77	2273
VP-9	568	1	20	16	R	11.9	2.9	RRI/15	85	2281
VP-10	851	1	30	14	Q	16.4	4.3	III/7	128	2302
VP-11	390	1	34	14	Q	18.6	3.6	III/10	53	2331
VP-12	184	1	26	14	Q	14.2	1.7	III/13	25	2341
VP-13	316	1	36	16	S	22.5	2.9	III/10	42	2355

QUANTUM TORPEDO WEAPON TYPES

Missile Weapon Type	Mass (mt)	Power to Arm	Damage	Range	Firing Chart	WDF	SS	Availability	Cost (MCr)	Year
VQT-1	3510	4	60	13	N	29.3	8.1	III/3	474	2363

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