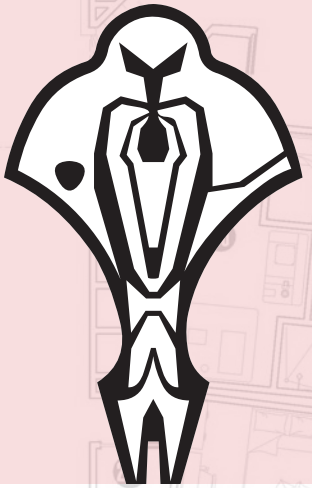

A supplement for use with

STAR TREK®

THE ROLE PLAYING GAME

2204S - Cardassian

# STARSHIP CONSTRUCTION MANUAL

# CARDASSIAN UNION

fasa

## COMPUTER CONTROL SYSTEM TYPES

| Control Computer Type | System Mass (mt) | Approrpiate Ship Classes | SS Requirement | Maximum WDF Allowed | Availability | Cost (MCr) | Year |
|---|---|---|---|---|---|---|---|
| **CO-1** | 60 | I-III | 0.2 | 3 | LLL/56 | 106 | 2240 |
| **CO-2** | 1,775 | III-IV | 1 | 35 | LLL/28 | 305 | 2243 |
| **CO-3** | 4,200 | IV-IX | 1.4 | 50 | LLL/20 | 421 | 2245 |
| **CO-4** | 4,724 | V-XIV | 2.2 | 60 | LLL/16 | 986 | 2248 |
| **CO-5** | 5,000 | VI-XII | 2.8 | 80 | LLL/12 | 1198 | 2252 |
| **CO-6** | 5,860 | VIII-XIV | 3 | 100 | LLL/11 | 3170 | 2261 |
| **CO-6a** | 6,980 | IX-XV | 3.1 | 120 | LLL/11 | 3816 | 2272 |
| **CO-7** | 8,650 | X-XX | 3.5 | 135 | LLL/10 | 5187 | 2278 |
| **CO-8** | 9,820 | X-XII | 3.6 | 155 | LLL/10 | 6278 | 2283 |
| **CO-9** | 10,725 | XI-XX | 3.8 | 180 | LRL/10 | 6500 | 2288 |
| **CO-10** | 11,050 | XI-XV | 4 | 210 | LRL/9 | 8750 | 2291 |
| **CO-10a** | 11,750 | XII-XVII | 4.2 | 240 | LRL/8 | 9961 | 2302 |
| **CO-11** | 21,850 | XIII-XX | 5.4 | 290 | LRL/7 | 9075 | 2310 |
| **CO-12** | 24,200 | XVI-XX | 5.5 | 320 | LRL/7 | 8020 | 2323 |
| **CI-1** | 1,565 | III-XI | 0.7 | 40 | LLL/25 | 1000 | 2331 |
| **CI-2** | 2,745 | IV-XIII | 1.1 | 70 | LLL/14 | 1760 | 2337 |
| **CI-2a** | 3,335 | VI-XIV | 1.6 | 85 | LLL/11 | 2140 | 2335 |
| **CI-2b** | 4,310 | VIII-XVII | 1.8 | 110 | LLL/11 | 2760 | 2336 |
| **CI-3** | 7,835 | X-XIX | 3.8 | 200 | LRL/9 | 5000 | 2337 |
| **CI-4** | 9,785 | XI-XVIII | 4.8 | 250 | LRL/8 | 6260 | 2338 |
| **CI-5** | 10,990 | XII-XX | 5.4 | 280 | LRL/7 | 7000 | 2342 |
| **CI-6** | 14,220 | XIII-XX | 6.9 | 360 | LRL/6 | 9000 | 2344 |
| **CI-7** | 15,760 | XIV-XX | 6.8 | 400 | LRL/5 | 10020 | 2364 |
| **CI-7a** | 20,380 | XVI-XX | 9 | 520 | RRR/1 | 13020 | 2370 |

## 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 |
|---|---|---|---|---|---|---|---|---|
| **CWA-1** | 2,100 | 4 | CO-1 | E/F | 0.1 | RRR/35 | 2.6 | 2243 |
| **CWA-2** | 2,100 | 6 | CO-2 | F/H | 0.1 | RRR/34 | 2.7 | 2244 |
| **CWB-1** | 11,000 | 7 | CO-2 | K/M | 1.1 | RRR/34 | 28 | 2244 |
| **CWB-2** | 11,000 | 9 | CO-2 | L/M | 1.1 | RRR/33 | 29 | 2250 |
| **CWB-3** | 11,000 | 12 | CO-2 | M/N | 1.1 | RRR/31 | 30 | 2253 |
| **CWC-1** | 42,000 | 13 | CO-2 | O/M | 2.6 | RRR/31 | 171 | 2248 |
| **CWC-2** | 42,000 | 16 | CO-2 | O/M | 2.6 | RRR/29 | 175 | 2261 |
| **CWD-1** | 48,000 | 11 | CO-2 | L/M | 3.9 | RRR/32 | 192 | 2249 |
| **CWD-2** | 48,000 | 14 | CO-2 | L/N | 3.9 | RRR/30 | 197 | 2253 |
| **CWD-3** | 48,000 | 16 | CO-2 | M/O | 3.9 | RRR/29 | 200 | 2256 |
| **CWD-4** | 48,000 | 18 | CO-2 | M/O | 3.9 | RRR/28 | 204 | 2268 |
| **CWF-1** | 51,000 | 19 | CO-2 | G/J | 4.7 | RRR/28 | 291 | 2264 |
| **CWF-2** | 51,000 | 21 | CO-2 | G/J | 4.7 | RRR/27 | 296 | 2276 |
| **CWG-1** | 58,000 | 23 | CO-2 | E/F | 5.1 | RRR/26 | 342 | 2272 |
| **CWG-2** | 58,000 | 37 | CO-3 | E/F | 5.1 | III/19 | 381 | 2293 |
| **CWH-1** | 75,000 | 31 | CO-3 | G/I | 7.4 | III/22 | 590 | 2307 |
| **CWH-2** | 75,000 | 35 | CO-3 | G/I | 7.4 | III/20 | 608 | 2312 |
| **CWH-3** | 75,000 | 41 | CO-3 | H/K | 7.4 | III/17 | 635 | 2329 |
| **CWI-1** | 56,000 | 34 | CO-3 | J/K | 5.5 | III/20 | 360 | 2332 |
| **CWI-2** | 56,000 | 38 | CO-4 | J/K | 5.5 | III/18 | 371 | 2339 |
| **CWJ-1** | 74,000 | 45 | CO-4 | H/J | 6.9 | III/15 | 644 | 2335 |
| **CWJ-2** | 74,000 | 46 | CO-4 | H/J | 6.9 | III/14 | 648 | 2341 |
| **CWJ-3** | 74,000 | 48 | CO-5 | H/K | 6.9 | III/13 | 657 | 2350 |
| **CWK-1** | 45,000 | 24 | CO-2 | G/H | 4.1 | RRR/25 | 201 | 2336 |
| **CWK-2** | 45,000 | 26 | CO-2 | G/H | 4.1 | RRR/24 | 204 | 2338 |
| **CWK-3** | 45,000 | 27 | CO-3 | G/H | 4.1 | III/24 | 206 | 2340 |
| **CWL-1** | 86,000 | 52 | CO-5 | G/I | 7.8 | III/11 | 784 | 2340 |
| **CWL-2** | 86,000 | 54 | CO-5 | G/I | 7.8 | III/10 | 795 | 2346 |
| **CWM-1** | 94,000 | 57 | CO-5 | H/I | 8.3 | III/9 | 885 | 2343 |
| **CWM-2** | 94,000 | 60 | CO-6 | H/I | 8.3 | III/7 | 902 | 2352 |
| **CWN-1** | 91,000 | 55 | CO-5 | H/J | 7.7 | III/10 | 846 | 2348 |
| **CWN-2** | 91,000 | 63 | CO-6 | H/J | 7.7 | III/6 | 890 | 2358 |
| **CWO-1** | 102,500 | 62 | CO-6 | K/L | 8.9 | III/6 | 1,196 | 2354 |
| **CWO-2** | 102,500 | 65 | CO-6 | K/L | 8.9 | III/5 | 1,218 | 2367 |
| **CWP-1** | 112,000 | 66 | CO-6 | J/K | 9.7 | III/4 | 1,339 | 2363 |
| **CWP-2** | 112,000 | 68 | CO-6 | J/K | 9.7 | III/3 | 1,355 | 2366 |
| **CWP-3** | 112,000 | 70 | CO-7 | J/K | 9.7 | III/2 | 1,371 | 2380 |

## 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 |
|---|---|---|---|---|---|---|---|---|
| **CWA-1** | 4,200 | 5 ea. | CO-2 | E/F | 0.2 | RRR/35 | 5.7 | 2243 |
| **CWA-2** | 4,200 | 7 ea. | CO-2 | F/H | 0.2 | RRR/34 | 5.9 | 2244 |
| **CWB-1** | 22,000 | 8 ea. | CO-2 | K/M | 2.2 | RRR/34 | 62 | 2244 |
| **CWB-2** | 22,000 | 10 ea. | CO-2 | L/M | 2.2 | RRR/33 | 64 | 2250 |
| **CWB-3** | 22,000 | 14 ea. | CO-3 | M/N | 2.2 | RRR/31 | 66 | 2253 |
| **CWC-1** | 84,000 | 15 ea. | CO-3 | O/M | 5.2 | RRR/31 | 376 | 2248 |
| **CWC-2** | 84,000 | 18 ea. | CO-4 | O/M | 5.2 | RRR/29 | 385 | 2261 |
| **CWD-1** | 96,000 | 13 ea. | CO-3 | L/M | 7.8 | RRR/32 | 422 | 2249 |
| **CWD-2** | 96,000 | 16 ea. | CO-3 | L/N | 7.8 | RRR/30 | 433 | 2253 |
| **CWD-3** | 96,000 | 18 ea. | CO-4 | M/O | 7.8 | RRR/29 | 440 | 2256 |
| **CWD-4** | 96,000 | 20 ea. | CO-4 | M/O | 7.8 | RRR/28 | 449 | 2268 |
| **CWF-1** | 102,000 | 21 ea. | CO-5 | G/J | 9.4 | RRR/28 | 640 | 2264 |
| **CWF-2** | 102,000 | 24 ea. | CO-5 | G/J | 9.4 | RRR/27 | 651 | 2276 |
| **CWG-1** | 116,000 | 26 ea. | CO-5 | E/F | 10.2 | RRR/26 | 752 | 2272 |
| **CWG-2** | 116,000 | 41 ea. | CO-7 | E/F | 10.2 | III/19 | 838 | 2293 |
| **CWH-1** | 150,000 | 35 ea. | CO-6a | G/I | 14.8 | III/22 | 1,298 | 2307 |
| **CWH-2** | 150,000 | 39 ea. | CO-6a | G/I | 14.8 | III/20 | 1,338 | 2312 |
| **CWH-3** | 150,000 | 46 ea. | CO-8 | H/K | 14.8 | III/17 | 1,397 | 2329 |
| **CWI-1** | 112,000 | 38 ea. | CO-7 | K/L | 11 | III/20 | 792 | 2332 |
| **CWI-2** | 112,000 | 42 ea. | CO-7 | K/L | 11 | III/18 | 816 | 2339 |
| **CWJ-1** | 148,000 | 50 ea. | CO-8 | I/K | 13.8 | III/15 | 1,417 | 2335 |
| **CWJ-2** | 148,000 | 51 ea. | CO-8 | I/K | 13.8 | III/14 | 1,426 | 2341 |
| **CWJ-3** | 148,000 | 53 ea. | CO-8 | I/L | 13.8 | III/13 | 1,445 | 2350 |
| **CWK-1** | 90,000 | 27 ea. | CO-5 | H/I | 8.2 | RRR/25 | 442 | 2336 |
| **CWK-2** | 90,000 | 29 ea. | CO-6 | H/I | 8.2 | RRR/24 | 449 | 2338 |
| **CWK-3** | 90,000 | 30 ea. | CO-6 | H/I | 8.2 | III/24 | 453 | 2340 |
| **CWL-1** | 172,000 | 58 ea. | CO-9 | H/J | 15.6 | III/11 | 1,725 | 2340 |
| **CWL-2** | 172,000 | 60 ea. | CO-9 | H/J | 15.6 | III/10 | 1,749 | 2346 |
| **CWM-1** | 188,000 | 63 ea. | CO-9 | I/J | 16.6 | III/9 | 1,947 | 2343 |
| **CWM-2** | 188,000 | 66 ea. | CO-10 | I/J | 16.6 | III/7 | 1,984 | 2352 |
| **CWN-1** | 182,000 | 61 ea. | CO-10 | I/K | 15.4 | III/10 | 1,861 | 2348 |
| **CWN-2** | 182,000 | 70 ea. | CO-10 | I/K | 15.4 | III/6 | 1,958 | 2358 |
| **CWO-1** | 205,000 | 69 ea. | CO-10 | L/L | 17.8 | III/6 | 2,631 | 2354 |
| **CWO-2** | 205,000 | 72 ea. | CO-10 | L/L | 17.8 | III/5 | 2,680 | 2367 |
| **CWP-1** | 224,000 | 73 ea. | CO-10 | K/L | 19.4 | III/4 | 2,946 | 2363 |
| **CWP-2** | 224,000 | 75 ea. | CO-11 | K/L | 19.4 | III/3 | 2,981 | 2366 |
| **CWP-3** | 224,000 | 77 ea. | CO-11 | K/L | 19.4 | III/2 | 3,016 | 2380 |

# MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

**Movement Point Ratios**

| Ship Class | 1/3 | 1/2 | 1/1 | | 2/1 | | | 3/1 | | | | 4/1 | | | | 5/1 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | **CWA-1**<br>*17*<br>5/6 | **CWA-1**<br>*11.5*<br>4/6<br>**CWA-2**<br>*17*<br>5/6 | **CWA-2**<br>*8.5*<br>4/6 | | | | | | | | | | | | | | |
| II | | **CWA-1**<br>*11.5*<br>4/6<br>**CWB-1**<br>*20*<br>6/7 | **CWA-1**<br>*5.5*<br>4/5<br>**CWA-2**<br>*8.5*<br>4/6 | **CWB-2**<br>*13*<br>6/7<br>**CWB-3**<br>*17*<br>6/7 | **CWA-2**<br>*4*<br>4/5 | | | | | | | | | | | | |
| III | | | **CWB-1**<br>*10*<br>5/7 | **CWB-2**<br>*13*<br>6/7 | **CWB-2**<br>*6.5*<br>5/7 | **CWB-3**<br>*8.5*<br>5/7 | | **CWB-3**<br>*5.5*<br>5/6 | | | | | | | | | |
| IV | | | | | **CWB-1**<br>*5*<br>5/6 | **CWB-2**<br>*6.5*<br>5/7 | | **CWB-2**<br>*4.5*<br>5/6 | **CWB-3**<br>*5.5*<br>5/6 | | | | | | | | |
| V | | | **CWC-1**<br>*18.5*<br>6/8<br>**CWC-2**<br>*23*<br>6/8<br>**CWD-1**<br>*16*<br>7/8 | **CWD-2**<br>*20*<br>7/8<br>**CWD-3**<br>*23*<br>7/8 | **CWC-1**<br>*9*<br>6/7<br>**CWC-2**<br>*11.5*<br>6/7<br>**CWD-4**<br>*13*<br>7/8 | **CWF-1**<br>*13.5*<br>6/8<br>**CWF-2**<br>*15*<br>6/8<br>**CWI-1**<br>*24*<br>7/8 | **CWK-1**<br>*17*<br>7/9<br>**CWK-2**<br>*18.5*<br>7/9<br>**CWK-3**<br>*19*<br>7/9 | **CWB-1**<br>*3.5*<br>4/6<br>**CWB-2**<br>*4.5*<br>5/6<br>**CWI-1**<br>*16*<br>6/8 | **CWI-2**<br>*18*<br>7/8 | | | **CWB-3**<br>*4*<br>4/6<br>**CWI-2**<br>*13.5*<br>6/8 | | | | | | |
| VI | | | **CWC-1**<br>*18.5*<br>6/8<br>**CWD-1**<br>*16*<br>7/8<br>**CWD-2**<br>*20*<br>7/8 | | **CWC-1**<br>*9*<br>6/7<br>**CWC-2**<br>*11.5*<br>6/7<br>**CWD-3**<br>*11.5*<br>6/8<br>**CWD-4**<br>*13*<br>7/8 | **CWF-1**<br>*13.5*<br>6/8<br>**CWF-2**<br>*15*<br>6/8<br>**CWG-1**<br>*16.5*<br>7/8<br>**CWH-1**<br>*22*<br>7/8 | **CWI-1**<br>*24*<br>7/8<br>**CWK-1**<br>*17*<br>7/9<br>**CWK-2**<br>*18.5*<br>7/9<br>**CWK-3**<br>*19*<br>7/9 | **CWC-2**<br>*7.5*<br>5/7<br>**CWG-2**<br>*17.5*<br>7/8<br>**CWH-2**<br>*16.5*<br>7/8<br>**CWH-3**<br>*19.5*<br>7/8 | **CWI-1**<br>*16*<br>6/8<br>**CWI-2**<br>*18*<br>7/8<br>**CWJ-1**<br>*21.5*<br>8/9<br>**CWJ-2**<br>*21.5*<br>8/9 | **CWJ-3**<br>*23*<br>8/9<br>**CWK-3**<br>*13*<br>7/8 | | **CWI-2**<br>*13.5*<br>6/8 | | | | | | |
| VII | | | **CWD-1**<br>*16*<br>7/8 | | **CWC-1**<br>*9*<br>6/7<br>**CWC-2**<br>*11.5*<br>6/7<br>**CWD-2**<br>*10*<br>6/8<br>**CWD-3**<br>*11.5*<br>6/8<br>**CWG-1**<br>*16.5*<br>7/8 | **CWH-1**<br>*22*<br>7/8 | | **CWC-2**<br>*7.5*<br>5/7<br>**CWD-3**<br>*7.5*<br>6/7<br>**CWD-4**<br>*8.5*<br>6/8<br>**CWF-1**<br>*9*<br>6/7<br>**CWF-2**<br>*10*<br>6/7 | **CWG-2**<br>*17.5*<br>7/8<br>CWH-1<br>**15**<br>*6/8*<br>CWH-2<br>**16.5**<br>*7/8*<br>CWH-3<br>**19.5**<br>*7/8*<br>CWI-1<br>**16**<br>*6/8* | **CWI-2**<br>*18*<br>7/8<br>**CWJ-1**<br>*21.5*<br>8/9<br>CWJ-2<br>**21.5**<br>*8/9*<br>CWK-1<br>**11.5**<br>*7/8*<br>CWK-2<br>**12.5**<br>*7/8* | **CWK-3**<br>*13*<br>7/8<br>**CWL-1**<br>*25*<br>7/9 | **CWI-2**<br>*13.5*<br>6/8<br>**CWJ-1**<br>*16*<br>7/9<br>**CWJ-2**<br>*16.5*<br>7/9<br>**CWJ-3**<br>*17*<br>7/9<br>**CWK-2**<br>*9*<br>6/8 | **CWL-1**<br>*18.5*<br>7/8<br>CWL-2<br>**19**<br>*7/9*<br>CWM-1<br>**20.5**<br>*7/8*<br>CWM-2<br>**21.5**<br>*7/8*<br>CWN-1<br>**19.5**<br>*7/8* | **CWN-2**<br>*22.5*<br>7/8 | | **CWN-2**<br>*18*<br>6/8 | |
| VIII | | | | | **CWC-1**<br>*9*<br>6/7<br>**CWD-1**<br>*8*<br>6/8<br>**CWD-2**<br>*10*<br>6/8 | | | **CWC-2**<br>*7.5*<br>5/7<br>**CWD-3**<br>*7.5*<br>6/7<br>**CWD-4**<br>*8.5*<br>6/8<br>**CWF-1**<br>*9*<br>6/7<br>**CWG-1**<br>*11*<br>6/8 | **CWH-1**<br>*15*<br>6/8<br>**CWH-2**<br>*16.5*<br>7/8<br>CWI-1<br>**16**<br>*6/8*<br>CWK-1<br>**11.5**<br>*7/8*<br>CWK-2<br>**12.5**<br>*7/8* | **CWK-3**<br>*13*<br>7/8<br>**CWL-1**<br>*25*<br>7/9 | | **CWC-2**<br>*5.5*<br>5/6<br>**CWF-2**<br>*7.5*<br>5/7<br>**CWG-2**<br>*13*<br>6/8<br>**CWH-2**<br>*12.5*<br>6/8<br>**CWH-3**<br>*14.5*<br>6/8 | **CWI-2**<br>*13.5*<br>6/8<br>**CWJ-1**<br>*16*<br>7/9<br>CWJ-2<br>**16.5**<br>*7/9*<br>CWJ-3<br>**17**<br>*7/9*<br>CWK-2<br>**9**<br>*6/8* | **CWL-1**<br>*18.5*<br>7/8<br>**CWL-2**<br>*19*<br>7/9<br>**CWM-1**<br>*20.5*<br>7/8<br>**CWM-2**<br>*21.5*<br>7/8<br>CWN-1<br>**19.5**<br>*7/8* | **CWN-2**<br>*22.5*<br>7/8<br>**CWO-1**<br>*22*<br>7/8<br>**CWO-2**<br>*23*<br>7/8<br>**CWP-1**<br>*23.5*<br>7/9<br>**CWP-2**<br>*24*<br>7/9 | | **CWN-2**<br>*18*<br>6/8<br>**CWP-3**<br>*20*<br>7/9 | |
| IX | | | | | **CWD-1**<br>*8*<br>6/8 | | | **CWC-1**<br>*6*<br>5/7<br>**CWC-2**<br>*7.5*<br>5/7<br>**CWD-2**<br>*6.5*<br>6/7<br>**CWD-3**<br>*7.5*<br>6/7<br>**CWD-4**<br>*8.5*<br>6/8<br>**CWG-1**<br>*11*<br>6/8 | | | | **CWC-2**<br>*5.5*<br>5/6<br>**CWF-1**<br>*7*<br>5/7<br>**CWF-2**<br>*7.5*<br>5/7<br>**CWG-1**<br>*8*<br>6/7<br>**CWG-2**<br>*13*<br>6/8<br>**CWH-1**<br>*11*<br>6/7<br>**CWH-2**<br>*12.5*<br>6/8 | **CWH-3**<br>*14.5*<br>6/8<br>**CWI-1**<br>*12*<br>6/7<br>CWI-2<br>**13.5**<br>*6/8*<br>CWJ-1<br>**16**<br>*7/9*<br>CWJ-2<br>**16.5**<br>*7/9*<br>CWJ-3<br>**17**<br>*7/9*<br>CWK-1<br>**8.5**<br>*6/8* | **CWK-2**<br>*9*<br>6/8<br>**CWK-3**<br>*9.5*<br>6/8<br>**CWL-1**<br>*18.5*<br>7/8<br>**CWL-2**<br>*19*<br>7/9<br>CWM-1<br>**20.5**<br>*7/8*<br>CWM-2<br>**21.5**<br>*7/8*<br>CWN-1<br>**19.5**<br>*7/8* | **CWO-1**<br>*22*<br>7/8<br>**CWO-2**<br>*23*<br>7/8<br>**CWP-1**<br>*23.5*<br>7/9<br>**CWP-2**<br>*24*<br>7/9 | **CWI-2**<br>*11*<br>6/7<br>**CWJ-2**<br>*13*<br>7/8<br>**CWJ-3**<br>*14*<br>7/8<br>**CWK-2**<br>*7.5*<br>6/7<br>**CWL-2**<br>*15.5*<br>7/8<br>**CWM-2**<br>*17*<br>6/8<br>**CWN-2**<br>*18*<br>6/8 | **CWP-3**<br>*20*<br>7/9 |

# MOVEMENT POINT RATIO TABLE: SINGLE WARP ENGINE

**Movement Point Ratios**

| Ship Class | 3/1 | 4/1 | | | | 5/1 | | | | 6/1 | | | | 7/1 | | | | 8/1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | **CWC-1**<br>*6*<br>5/7<br>**CWD-1**<br>*5*<br>6/7<br>**CWD-2**<br>*6.5*<br>6/7<br>**CWG-1**<br>*11*<br>6/8 | **CWC-2**<br>*5.5*<br>5/6<br>**CWD-3**<br>*5.5*<br>5/7<br>**CWD-4**<br>*6.5*<br>6/7<br>**CWF-1**<br>*7*<br>5/7<br>**CWG-1**<br>*8*<br>6/7 | **CWH-1**<br>*11*<br>6/7<br>CWH-2<br>**12.5**<br>*6/8*<br>CWI-1<br>**12**<br>*6/7*<br>CWJ-3<br>**17**<br>*7/9*<br>CWK-1<br>**8.5**<br>*6/8* | **CWK-2**<br>*9*<br>6/8<br>**CWK-3**<br>*9.5*<br>6/8<br>CWL-1<br>**18.5**<br>*7/8*<br>CWO-1<br>**22**<br>*7/8*<br>CWP-1<br>**23.5**<br>*7/9* | **CWP-2**<br>*24*<br>7/9 | **CWF-2**<br>*6*<br>5/6<br>**CWG-2**<br>*10.5*<br>6/7<br>**CWH-3**<br>*12*<br>6/7<br>**CWI-2**<br>*11*<br>6/7<br>**CWJ-1**<br>*13*<br>7/8 | **CWJ-2**<br>*13*<br>7/8<br>CWJ-3<br>**14**<br>*7/8*<br>CWK-2<br>**7.5**<br>*6/7*<br>CWL-1<br>**15**<br>*6/8*<br>CWL-2<br>**15.5**<br>*7/8* | **CWM-1**<br>*16*<br>6/8<br>**CWM-2**<br>*17*<br>6/8<br>**CWN-1**<br>*16*<br>6/8<br>**CWN-2**<br>*18*<br>6/8<br>**CWO-1**<br>*18*<br>6/8 | **CWO-2**<br>*18.5*<br>6/8<br>**CWP-2**<br>*19.5*<br>7/8<br>**CWP-3**<br>*20*<br>7/9 | **CWJ-1**<br>*11*<br>6/8 | | | | | | | | |
| XI | **CWD-1**<br>*5*<br>6/7 | **CWC-1**<br>*4.5*<br>5/6<br>**CWC-2**<br>*5.5*<br>5/6<br>**CWD-2**<br>*5*<br>5/7<br>**CWD-3**<br>*5.5*<br>5/7<br>**CWD-4**<br>*6.5*<br>6/7<br>**CWG-1**<br>*8*<br>6/7 | **CWH-1**<br>*11*<br>6/7 | | | **CWF-1**<br>*5.5*<br>5/6<br>**CWF-2**<br>*6*<br>5/6<br>**CWG-2**<br>*10.5*<br>6/7<br>**CWH-2**<br>*10*<br>6/7<br>**CWH-3**<br>*12*<br>6/7<br>**CWI-1**<br>*10*<br>5/7 | **CWI-2**<br>*11*<br>6/7<br>**CWJ-1**<br>*13*<br>7/8<br>CWJ-2<br>**13**<br>*7/8*<br>CWJ-3<br>**14**<br>*7/8*<br>CWK-1<br>**7**<br>*6/7*<br>CWK-2<br>**7.5**<br>*6/7* | **CWK-3**<br>*8*<br>6/7<br>**CWL-1**<br>*15*<br>6/8<br>**CWL-2**<br>*15.5*<br>7/8<br>**CWM-1**<br>*16*<br>6/8<br>**CWM-2**<br>*17*<br>6/8<br>**CWN-1**<br>*16*<br>6/8 | **CWN-2**<br>*18*<br>6/8<br>**CWO-1**<br>*18*<br>6/8<br>**CWO-2**<br>*18.5*<br>6/8<br>**CWP-1**<br>*19*<br>7/8<br>**CWP-2**<br>*19.5*<br>7/8 | **CWJ-1**<br>*11*<br>6/8<br>**CWL-2**<br>*13*<br>6/8<br>**CWN-1**<br>*13*<br>6/7<br>**CWN-2**<br>*15*<br>6/7<br>**CWP-3**<br>*16.5*<br>7/8 | | | | | | | | |
| XII | | **CWD-1**<br>*4*<br>5/7<br>**CWD-2**<br>*5*<br>5/7<br>**CWD-3**<br>*5.5*<br>5/7 | | | | **CWD-4**<br>*5*<br>5/7<br>**CWF-1**<br>*5.5*<br>5/6<br>**CWF-2**<br>*6*<br>5/6<br>**CWG-1**<br>*6.5*<br>5/7<br>**CWH-1**<br>*9*<br>5/7 | **CWH-2**<br>*10*<br>6/7<br>CWH-3<br>**12**<br>*6/7*<br>CWI-1<br>**10**<br>*5/7*<br>CWJ-2<br>**13**<br>*7/8*<br>CWJ-3<br>**14**<br>*7/8* | **CWK-1**<br>*7*<br>6/7<br>**CWK-2**<br>*7.5*<br>6/7<br>**CWK-3**<br>*8*<br>6/7<br>**CWL-1**<br>*15*<br>6/8<br>**CWO-1**<br>*18*<br>6/8 | **CWO-2**<br>*18.5*<br>6/8<br>**CWP-1**<br>*19*<br>7/8<br>**CWP-2**<br>*19.5*<br>7/8 | **CWG-2**<br>*9*<br>5/7<br>**CWI-2**<br>*9*<br>5/7<br>**CWJ-1**<br>*11*<br>6/8<br>**CWL-1**<br>*12.5*<br>6/7<br>**CWL-2**<br>*13*<br>6/8 | **CWM-1**<br>*13.5*<br>6/7<br>CWM-2<br>**14**<br>*6/7*<br>CWN-1<br>**13**<br>*6/7*<br>CWN-2<br>**15**<br>*6/7*<br>CWP-2<br>**16**<br>*6/8* | **CWP-3**<br>*16.5*<br>7/8 | | | | | | | |
| XIII | | | | | | **CWG-1**<br>*6.5*<br>5/7<br>**CWH-1**<br>*9*<br>5/7<br>**CWH-2**<br>*10*<br>6/7<br>**CWI-1**<br>*10*<br>5/7<br>**CWO-2**<br>*18.5*<br>6/8 | | | | **CWG-2**<br>*9*<br>5/7<br>**CWH-3**<br>*10*<br>5/7<br>**CWI-2**<br>*9*<br>5/7<br>**CWJ-1**<br>*11*<br>6/8<br>**CWJ-2**<br>*11*<br>6/8 | **CWJ-3**<br>*11.5*<br>6/8<br>CWL-1<br>**12.5**<br>*6/7*<br>CWL-2<br>**13**<br>*6/8*<br>CWM-1<br>**13.5**<br>*6/7*<br>CWM-2<br>**14**<br>*6/7* | **CWN-1**<br>*13*<br>6/7<br>**CWN-2**<br>*15*<br>6/7<br>**CWO-1**<br>*15*<br>6/7<br>**CWO-2**<br>*15.5*<br>6/7<br>**CWP-1**<br>*16*<br>6/8 | **CWP-2**<br>*16*<br>6/8<br>**CWP-3**<br>*16.5*<br>7/8<br>**CWP-3**<br>*16.5*<br>7/8 | | | | | | |
| XIV | | | | | | **CWH-1**<br>*9*<br>5/7 | | | | **CWH-2**<br>*8.5*<br>5/7<br>**CWH-3**<br>*10*<br>5/7<br>**CWJ-1**<br>*11*<br>6/8 | **CWJ-2**<br>*11*<br>6/8<br>CWJ-3<br>**11.5**<br>*6/8*<br>CWL-1<br>**12.5**<br>*6/7* | **CWM-1**<br>*13.5*<br>6/7<br>**CWO-1**<br>*15*<br>6/7<br>**CWO-2**<br>*15.5*<br>6/7 | **CWP-1**<br>*16*<br>6/8<br>**CWP-2**<br>*16*<br>6/8 | **CWL-2**<br>*11*<br>6/7<br>**CWM-1**<br>*11.5*<br>5/7<br>**CWM-2**<br>*12*<br>5/7 | **CWN-1**<br>*11*<br>5/7<br>CWN-2<br>**13**<br>*5/7*<br>CWO-2<br>**13**<br>*5/7* | **CWP-2**<br>*14*<br>6/7<br>**CWP-3**<br>*14*<br>6/8 | | |
| XV | | | | | | **CWH-1**<br>*9*<br>5/7 | | | | **CWH-2**<br>*8.5*<br>5/7<br>**CWH-3**<br>*10*<br>5/7<br>**CWL-1**<br>*12.5*<br>6/7 | **CWO-1**<br>*15*<br>6/7<br>CWP-1<br>**16**<br>*6/8* | | | **CWL-2**<br>*11*<br>6/7<br>**CWM-1**<br>*11.5*<br>5/7<br>**CWM-2**<br>*12*<br>5/7 | **CWN-1**<br>*11*<br>5/7<br>CWN-2<br>**13**<br>*5/7*<br>CWO-1<br>**12.5**<br>*5/7* | **CWO-2**<br>*13*<br>5/7<br>**CWP-1**<br>*13.5*<br>6/7<br>**CWP-2**<br>*14*<br>6/7 | **CWP-3**<br>*14*<br>6/8 | |
| XVI | | | | | | | | | | | | | | **CWM-1**<br>*11.5*<br>5/7<br>**CWM-2**<br>*12*<br>5/7 | **CWN-1**<br>*11*<br>5/7<br>CWN-2<br>**13**<br>*5/7* | **CWO-1**<br>*12.5*<br>5/7<br>**CWO-2**<br>*13*<br>5/7 | **CWP-1**<br>*13.5*<br>6/7<br>**CWP-2**<br>*14*<br>6/7 | **CWP-3**<br>*12.5*<br>6/7 |
| XVII | | | | | | | | | | | | | | **CWO-1**<br>*12.5*<br>5/7<br>**CWO-2**<br>*13*<br>5/7 | **CWP-1**<br>*13.5*<br>6/7 | **CWP-1**<br>*13.5*<br>6/7 | **CWP-2**<br>*14*<br>6/7 | **CWP-3**<br>*12.5*<br>6/7 |

# MOVEMENT POINT RATIO TABLE: TANDEM WARP ENGINE

**Movement Point Ratios**

| Ship Class | 1/1 | | 2/1 | | 3/1 | | | 4/1 | | | 5/1 | | | 6/1 | | 7/1 | | 8/1 | | | 9/1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | **CWA-1**<br>*14*<br>5/6 | **CWA-2**<br>*20*<br>6/8 | **CWA-1**<br>*7*<br>4/6 | | | | | | | | | | | | | | | | | | |
| II | | | **CWA-1**<br>*7*<br>4/6 | **CWA-2**<br>*10*<br>6/7 | **CWA-1**<br>*5*<br>4/5 | | | | | | | | | | | | | | | | |
| III | **CWB-1**<br>*23*<br>6/7 | | **CWB-2**<br>*14*<br>6/8 | **CWB-3**<br>*20*<br>6/8 | **CWA-1**<br>*5*<br>4/5 | **CWA-2**<br>*6.5*<br>5/7 | **CWB-3**<br>*13.5*<br>6/7 | | | | | | | | | | | | | | |
| IV | | | **CWB-1**<br>*11.5*<br>5/7 | **CWB-2**<br>*14*<br>6/8 | **CWB-3**<br>*13.5*<br>6/7 | | | | | | | | | | | | | | | | |
| V | | | | | **CWB-1**<br>*7.5*<br>5/6 | **CWB-2**<br>*9*<br>6/7 | **CWB-3**<br>*13.5*<br>6/7 | **CWB-2**<br>*7*<br>5/7 | **CWB-3**<br>*10*<br>5/7 | | | | | | | | | | | | |
| VI | | | | | **CWB-1**<br>*7.5*<br>5/6 | | | **CWB-2**<br>*7*<br>5/7 | **CWB-3**<br>*10*<br>5/7 | | **CWB-3**<br>*8*<br>5/6 | | | | | | | | | | |
| VII | | | **CWC-1**<br>*21.5*<br>7/8 | | **CWC-2**<br>*17*<br>7/8 | | | **CWB-1**<br>*5.5*<br>4/6<br>**CWK-1**<br>*19*<br>7/9 | **CWK-2**<br>*21*<br>7/9<br>**CWK-3**<br>*21.5*<br>7/9 | | **CWB-2**<br>*5.5*<br>5/6<br>**CWB-3**<br>*8*<br>5/6 | **CWK-3**<br>*17*<br>7/8 | | | | | | | | | |
| VIII | | | **CWC-1**<br>*21.5*<br>7/8 | | **CWC-2**<br>*17*<br>7/8<br>**CWD-3**<br>*17*<br>7/8 | **CWD-4**<br>*19*<br>7/8<br>**CWF-1**<br>*20*<br>7/8 | **CWF-2**<br>*23*<br>7/8 | **CWK-1**<br>*19*<br>7/9<br>**CWK-2**<br>*21*<br>7/9 | **CWK-3**<br>*21.5*<br>7/9 | | **CWI-1**<br>*22*<br>7/9<br>**CWK-3**<br>*17*<br>7/8 | | | **CWI-1**<br>*18*<br>7/8<br>**CWI-2**<br>*20*<br>7/9 | | **CWI-2**<br>*17*<br>7/8 | | | | | |
| IX | | | | | **CWC-1**<br>*14*<br>6/8<br>**CWC-2**<br>*17*<br>7/8 | **CWD-3**<br>*17*<br>7/8<br>**CWD-4**<br>*19*<br>7/8 | **CWF-1**<br>*20*<br>7/8<br>**CWF-2**<br>*23*<br>7/8 | **CWD-4**<br>*14*<br>6/8<br>**CWF-1**<br>*15*<br>6/8 | **CWG-1**<br>*18.5*<br>7/9<br>**CWK-1**<br>*19*<br>7/9 | | **CWG-2**<br>*23.5*<br>7/9<br>**CWI-1**<br>*22*<br>7/9 | **CWK-2**<br>*16.5*<br>7/8<br>**CWK-3**<br>*17*<br>7/8 | | **CWI-1**<br>*18*<br>7/8<br>**CWI-2**<br>*20*<br>7/9 | | **CWI-2**<br>*17*<br>7/8 | | | | | |
| X | | | | | **CWC-1**<br>*14*<br>6/8<br>**CWD-1**<br>*12.5*<br>6/8<br>**CWD-2**<br>*15*<br>6/8 | **CWF-1**<br>*20*<br>7/8 | | **CWC-2**<br>*13*<br>6/8<br>**CWD-3**<br>*13*<br>6/8<br>**CWD-4**<br>*14*<br>6/8 | **CWF-1**<br>*15*<br>6/8<br>**CWF-2**<br>*17*<br>6/8<br>**CWG-1**<br>*18.5*<br>7/9 | | **CWF-1**<br>*12*<br>6/7<br>**CWG-2**<br>*23.5*<br>7/9<br>**CWH-1**<br>*20*<br>8/9 | **CWH-2**<br>*22*<br>8/9<br>**CWK-1**<br>*15.5*<br>7/8<br>**CWK-2**<br>*16.5*<br>7/8 | **CWK-3**<br>*17*<br>7/8 | **CWH-3**<br>*22*<br>8/9<br>**CWI-1**<br>*18*<br>7/8<br>**CWI-2**<br>*20*<br>7/9 | | **CWI-2**<br>*17*<br>7/8<br>**CWJ-1**<br>*20.5*<br>7/8<br>**CWJ-2**<br>*21*<br>7/8 | **CWJ-3**<br>*21.5*<br>7/8 | **CWJ-3**<br>*19*<br>6/8 | | | |
| XI | | | | | **CWC-1**<br>*14*<br>6/8 | | | **CWC-2**<br>*13*<br>6/8<br>**CWD-3**<br>*13*<br>6/8<br>**CWD-2**<br>*11.5*<br>6/7 | **CWD-3**<br>*13*<br>6/8<br>**CWD-4**<br>*14*<br>6/8<br>**CWF-1**<br>*15*<br>6/8 | **CWF-2**<br>*17*<br>6/8<br>**CWG-1**<br>*18.5*<br>7/9 | **CWD-4**<br>*11.5*<br>6/7<br>**CWF-1**<br>*12*<br>6/7<br>**CWG-1**<br>*15*<br>7/8 | **CWH-1**<br>*20*<br>8/9<br>**CWH-2**<br>*22*<br>8/9<br>**CWK-1**<br>*15.5*<br>7/8 | **CWK-2**<br>*16.5*<br>7/8 | **CWG-2**<br>*19.5*<br>7/8<br>**CWH-3**<br>*22*<br>8/9<br>**CWI-1**<br>*18*<br>7/8 | **CWK-3**<br>*14*<br>6/8 | **CWI-2**<br>*17*<br>7/8<br>**CWJ-1**<br>*20.5*<br>7/8<br>**CWJ-2**<br>*21*<br>7/8 | **CWJ-3**<br>*21.5*<br>7/8 | **CWI-2**<br>*15*<br>6/8<br>**CWJ-2**<br>*18*<br>6/8<br>**CWJ-3**<br>*19*<br>6/8 | | | |
| XII | | | | | | | | | | | **CWC-2**<br>*10*<br>6/7<br>**CWD-3**<br>*10*<br>6/7<br>**CWD-3**<br>*10*<br>6/7 | **CWD-4**<br>*11.5*<br>6/7<br>**CWF-1**<br>*12*<br>6/7<br>**CWF-2**<br>*14*<br>6/7 | **CWG-1**<br>*15*<br>7/8<br>**CWH-1**<br>*20*<br>8/9 | **CWG-2**<br>*19.5*<br>7/8<br>**CWH-2**<br>*18.5*<br>7/9<br>**CWH-3**<br>*22*<br>8/9 | **CWI-1**<br>*18*<br>7/8<br>**CWK-2**<br>*14*<br>6/8<br>**CWK-3**<br>*14*<br>6/8 | **CWI-2**<br>*17*<br>7/8<br>**CWJ-1**<br>*20.5*<br>7/8<br>**CWK-2**<br>*12*<br>6/7 | **CWL-1**<br>*23.5*<br>8/9 | **CWI-2**<br>*15*<br>6/8<br>**CWJ-2**<br>*18*<br>6/8<br>**CWJ-3**<br>*19*<br>6/8 | **CWL-1**<br>*21*<br>7/9<br>**CWL-2**<br>*21.5*<br>8/9<br>**CWM-1**<br>*22.5*<br>7/8 | **CWN-1**<br>*22*<br>7/8<br>**CWN-1**<br>*22*<br>7/8 | **CWL-2**<br>*19*<br>7/9<br>**CWM-2**<br>*19.5*<br>7/8<br>**CWN-2**<br>*22*<br>7/8 |

# 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 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| XIII | **CWC-2**<br>*10*<br>6/7<br>**CWD-2**<br>*9*<br>5/7<br>**CWD-3**<br>*10*<br>6/7 | **CWD-4**<br>*11.5*<br>6/7<br>**CWF-1**<br>*12*<br>6/7<br>**CWF-2**<br>*14*<br>6/7 | **CWG-1**<br>*15*<br>7/8 | **CWC-2**<br>*8.5*<br>5/7<br>**CWH-1**<br>*16.5*<br>7/9<br>**CWH-2**<br>*18.5*<br>7/9 | **CWK-1**<br>*13*<br>6/8<br>**CWK-2**<br>*14*<br>6/8<br>**CWK-3**<br>*14*<br>6/8 | | **CWG-2**<br>*17*<br>6/8<br>**CWH-3**<br>*19*<br>7/9<br>**CWI-1**<br>*15.5*<br>6/8 | **CWK-2**<br>*12*<br>6/7<br>**CWL-1**<br>*23.5*<br>8/9 | **CWI-2**<br>*15*<br>6/8<br>**CWJ-1**<br>*18*<br>6/8<br>**CWJ-2**<br>*18*<br>6/8 | **CWJ-3**<br>*19*<br>6/8<br>**CWL-1**<br>*21*<br>7/9<br>**CWL-2**<br>*21.5*<br>8/9 | **CWM-1**<br>*22.5*<br>7/8<br>**CWN-1**<br>*22*<br>7/8 | **CWJ-2**<br>*16*<br>6/7<br>**CWJ-3**<br>*17*<br>6/7<br>**CWL-2**<br>*19*<br>7/9 | **CWM-1**<br>*20*<br>6/8<br>**CWM-2**<br>*21*<br>7/8<br>**CWN-2**<br>*22*<br>7/8 | **CWO-1**<br>*22*<br>7/8<br>**CWO-2**<br>*23*<br>7/8<br>**CWP-1**<br>*23*<br>7/9 | **CWM-2**<br>*19*<br>6/8<br>**CWP-1**<br>*21*<br>7/8<br>**CWP-2**<br>*21.5*<br>7/8 | **CWP-3**<br>*22*<br>7/8 | | | | | | | | |
| XIV | **CWC-1**<br>*8.5*<br>5/7<br>**CWD-1**<br>*7.5*<br>5/7<br>**CWD-2**<br>*9*<br>5/7 | **CWD-3**<br>*10*<br>6/7<br>**CWF-1**<br>*12*<br>6/7<br>**CWF-2**<br>*14*<br>6/7 | **CWG-1**<br>*15*<br>7/8 | **CWC-2**<br>*8.5*<br>5/7<br>**CWD-4**<br>*9.5*<br>5/7<br>**CWH-1**<br>*16.5*<br>7/9 | **CWH-2**<br>*18.5*<br>7/9<br>**CWK-1**<br>*13*<br>6/8 | | **CWG-2**<br>*17*<br>6/8<br>**CWH-3**<br>*19*<br>7/9<br>**CWI-1**<br>*15.5*<br>6/8 | **CWK-2**<br>*12*<br>6/7<br>**CWK-3**<br>*12*<br>6/7 | **CWI-2**<br>*15*<br>6/8<br>**CWJ-1**<br>*18*<br>6/8<br>**CWL-1**<br>*21*<br>7/9 | **CWL-2**<br>*21.5*<br>8/9<br>**CWN-1**<br>*22*<br>7/8 | | **CWJ-2**<br>*16*<br>6/7<br>**CWJ-3**<br>*17*<br>6/7<br>**CWL-2**<br>*19*<br>7/9 | **CWM-1**<br>*20*<br>6/8<br>**CWM-2**<br>*21*<br>7/8<br>**CWO-1**<br>*22*<br>7/8 | **CWO-2**<br>*23*<br>7/8<br>**CWP-1**<br>*23*<br>7/9 | **CWM-2**<br>*19*<br>6/8<br>**CWN-2**<br>*20*<br>6/8<br>**CWP-1**<br>*21*<br>7/8 | **CWP-2**<br>*21.5*<br>7/8<br>**CWP-3**<br>*22*<br>7/8 | | | | | | | | |
| XV | **CWC-1**<br>*8.5*<br>5/7<br>**CWD-1**<br>*7.5*<br>5/7<br>**CWD-2**<br>*9*<br>5/7 | **CWF-1**<br>*12*<br>6/7 | | **CWC-2**<br>*8.5*<br>5/7<br>**CWD-3**<br>*8.5*<br>5/7<br>**CWD-4**<br>*9.5*<br>5/7 | **CWF-1**<br>*10*<br>5/7<br>**CWF-2**<br>*11.5*<br>5/7<br>**CWG-1**<br>*12.5*<br>6/8 | **CWH-1**<br>*16.5*<br>7/9 | **CWG-2**<br>*17*<br>6/8<br>**CWH-2**<br>*16*<br>7/8<br>**CWI-1**<br>*15.5*<br>6/8 | **CWK-1**<br>*11*<br>6/7<br>**CWK-2**<br>*12*<br>6/7<br>**CWK-3**<br>*12*<br>6/7 | **CWH-3**<br>*16.5*<br>7/8<br>**CWI-2**<br>*15*<br>6/8<br>**CWJ-1**<br>*18*<br>6/8 | **CWL-1**<br>*21*<br>7/9 | | **CWI-2**<br>*13.5*<br>6/7<br>**CWJ-2**<br>*16*<br>6/7<br>**CWJ-3**<br>*17*<br>6/7 | **CWL-2**<br>*19*<br>7/9<br>**CWM-1**<br>*20*<br>6/8<br>**CWN-1**<br>*19.5*<br>6/8 | **CWO-1**<br>*22*<br>7/8 | **CWM-2**<br>*19*<br>6/8<br>**CWN-2**<br>*20*<br>6/8<br>**CWO-1**<br>*20*<br>6/8 | **CWO-2**<br>*20.5*<br>6/8<br>**CWP-1**<br>*21*<br>7/8<br>**CWP-2**<br>*21.5*<br>7/8 | | **CWP-2**<br>*19.5*<br>6/8<br>**CWP-3**<br>*20*<br>6/8 | | | | | |
| XVI | **CWD-1**<br>*7.5*<br>5/7<br>**CWD-2**<br>*9*<br>5/7 | | | **CWD-3**<br>*8.5*<br>5/7<br>**CWD-4**<br>*9.5*<br>5/7<br>**CWF-1**<br>*10*<br>5/7 | **CWF-2**<br>*11.5*<br>5/7<br>**CWG-1**<br>*12.5*<br>6/8 | | **CWG-1**<br>*10.5*<br>6/7<br>**CWH-1**<br>*14*<br>7/8<br>**CWH-2**<br>*16*<br>7/8 | **CWK-1**<br>*11*<br>6/7<br>**CWK-2**<br>*12*<br>6/7<br>**CWK-3**<br>*12*<br>6/7 | **CWG-2**<br>*14.5*<br>6/7<br>**CWH-3**<br>*16.5*<br>7/8<br>**CWI-1**<br>*13.5*<br>6/7 | | | **CWI-2**<br>*13.5*<br>6/7<br>**CWJ-1**<br>*16*<br>6/7<br>**CWJ-2**<br>*16*<br>6/7 | **CWJ-3**<br>*17*<br>6/7<br>**CWL-1**<br>*18.5*<br>7/8<br>**CWL-2**<br>*19*<br>7/9 | **CWM-1**<br>*20*<br>6/8<br>**CWN-1**<br>*19.5*<br>6/8 | **CWM-1**<br>*18*<br>6/7<br>**CWM-2**<br>*19*<br>6/8<br>**CWN-2**<br>*20*<br>6/8 | **CWO-1**<br>*20*<br>6/8<br>**CWO-2**<br>*20.5*<br>6/8<br>**CWP-1**<br>*21*<br>7/8 | | **CWP-1**<br>*19*<br>6/8<br>**CWP-2**<br>*19.5*<br>6/8<br>**CWP-3**<br>*20*<br>6/8 | | | | | |
| XVII | | | | **CWF-1**<br>*10*<br>5/7<br>**CWF-2**<br>*11.5*<br>5/7 | | | **CWG-1**<br>*10.5*<br>6/7<br>**CWH-1**<br>*14*<br>7/8<br>**CWH-2**<br>*16*<br>7/8 | | **CWG-2**<br>*14.5*<br>6/7<br>**CWH-3**<br>*16.5*<br>7/8<br>**CWI-1**<br>*13.5*<br>6/7 | | | **CWI-2**<br>*13.5*<br>6/7<br>**CWJ-1**<br>*16*<br>6/7<br>**CWL-1**<br>*18.5*<br>7/8 | | | **CWJ-1**<br>*14*<br>5/7<br>**CWJ-2**<br>*14.5*<br>5/7<br>**CWJ-3**<br>*15*<br>5/7<br>**CWL-2**<br>*17*<br>7/8 | **CWM-1**<br>*18*<br>6/7<br>**CWM-2**<br>*19*<br>6/8<br>**CWN-1**<br>*17.5*<br>6/7<br>**CWO-1**<br>*20*<br>6/8 | **CWO-2**<br>*20.5*<br>6/8<br>**CWP-1**<br>*21*<br>7/8 | **CWM-2**<br>*17*<br>6/7<br>**CWN-2**<br>*18*<br>6/7<br>**CWO-1**<br>*18*<br>6/7<br>**CWP-1**<br>*19*<br>6/8 | **CWP-2**<br>*19.5*<br>6/8<br>**CWP-3**<br>*20*<br>6/8 | | | | |
| XVIII | | | | | | | **CWG-1**<br>*10.5*<br>6/7<br>**CWH-1**<br>*14*<br>7/8 | | **CWG-2**<br>*14.5*<br>6/7<br>**CWH-2**<br>*14*<br>6/8 | | | **CWH-3**<br>*14.5*<br>6/8<br>**CWL-1**<br>*18.5*<br>7/8 | | | **CWJ-1**<br>*14*<br>5/7<br>**CWJ-2**<br>*14.5*<br>5/7 | **CWJ-3**<br>*15*<br>5/7<br>**CWL-2**<br>*17*<br>7/8 | **CWM-1**<br>*18*<br>6/7<br>**CWN-1**<br>*17.5*<br>6/7 | **CWM-2**<br>*17*<br>6/7<br>**CWN-2**<br>*18*<br>6/7 | **CWO-1**<br>*18*<br>6/7<br>**CWO-2**<br>*19*<br>6/7 | **CWP-1**<br>*19*<br>6/8<br>**CWP-2**<br>*19.5*<br>6/8 | **CWP-3**<br>*18.5*<br>6/7 | | |
| XIX | | | | | | | | | **CWH-1**<br>*12.5*<br>6/8<br>**CWH-2**<br>*14*<br>6/8 | | | **CWH-3**<br>*14.5*<br>6/8 | | | **CWJ-1**<br>*14*<br>5/7<br>**CWJ-2**<br>*14.5*<br>5/7 | **CWJ-3**<br>*15*<br>5/7<br>**CWL-1**<br>*16.5*<br>6/8 | **CWL-2**<br>*17*<br>7/8<br>**CWN-1**<br>*17.5*<br>6/7 | **CWM-1**<br>*16.5*<br>5/7<br>**CWM-2**<br>*17*<br>6/7 | **CWN-1**<br>*16*<br>5/7<br>**CWO-1**<br>*18*<br>6/7 | **CWO-2**<br>*19*<br>6/7<br>**CWP-1**<br>*19*<br>6/8 | **CWN-2**<br>*16.5*<br>5/7<br>**CWO-1**<br>*16.5*<br>5/7 | **CWP-2**<br>*18*<br>6/7<br>**CWP-3**<br>*18.5*<br>6/7 | |
| XX | | | | | | | | | **CWH-1**<br>*12.5*<br>6/8<br>**CWH-2**<br>*14*<br>6/8 | | | **CWH-3**<br>*14.5*<br>6/8 | | | **CWL-1**<br>*16.5*<br>6/8 | | | **CWL-2**<br>*15.5*<br>6/8<br>**CWM-1**<br>*16.5*<br>5/7<br>**CWN-1**<br>*16*<br>5/7 | **CWO-1**<br>*18*<br>6/7 | | **CWM-2**<br>*16*<br>5/7<br>**CWN-2**<br>*16.5*<br>5/7<br>**CWO-1**<br>*16.5*<br>5/7 | **CWO-2**<br>*17*<br>5/7<br>**CWP-1**<br>*17.5*<br>6/7<br>**CWP-2**<br>*18*<br>6/7 | **CWP-3**<br>*18.5*<br>6/7 |

## IMPULSE ENGINE TYPES

| Impulse Engine Type | Total Mass (mt) | Power Units Available | Control Computer Required | Ship Classes Powered | SS Requirememnt | Availability | Cost (MCr) | Year |
|---|---|---|---|---|---|---|---|---|
| **CIA-1** | 188 | 1 | CO-1 | I-II | 0.1 | RRR/65 | 0.5 | 2241 |
| **CIA-2** | 188 | 2 | CO-1 | I-II | 0.1 | RRR/63 | 1 | 2242 |
| **CIA-3** | 188 | 3 | CO-1 | II-IV | 0.1 | RRR/59 | 2 | 2243 |
| **CIA-4** | 188 | 4 | CO-2 | II-V | 0.1 | RRR/58 | 3 | 2243 |
| **CIB-1** | 209 | 2 | CO-1 | III-VI | 0.1 | RRR/62 | 1 | 2241 |
| **CIB-2** | 209 | 5 | CO-3 | IV-IX | 0.1 | RRR/56 | 3 | 2245 |
| **CIC-1** | 318 | 4 | CO-2 | V-X | 0.1 | RRR/57 | 2 | 2243 |
| **CIC-2** | 318 | 7 | CO-3 | VII-XII | 0.1 | RRR/49 | 4 | 2247 |
| **CID-1** | 445 | 10 | CO-3 | VI-XIV | 0.1 | RRR/43 | 5 | 2251 |
| **CID-2** | 445 | 13 | CO-4 | VIII-XVI | 0.1 | RRR/37 | 7 | 2249 |
| **CIE-1** | 501 | 16 | CO-4 | IX-XIV | 0.1 | RRR/26 | 8 | 2256 |
| **CIE-2** | 501 | 20 | CO-4 | XI-XVI | 0.1 | RRR/20 | 10 | 2267 |
| **CIE-3** | 501 | 24 | CO-4 | XII-XVIII | 0.1 | RRR/17 | 12 | 2270 |
| **CIF-1** | 673 | 22 | CO-4 | IX-XIV | 0.1 | RRR/18 | 11 | 2268 |
| **CIF-2** | 673 | 28 | CO-4 | XI-XVIII | 0.1 | RRR/11 | 14 | 2271 |
| **CIG-1** | 898 | 34 | CO-5 | XIII-XVII | 0.1 | RRR/7 | 17 | 2283 |
| **CIG-2** | 898 | 40 | CO-5 | XV-XVIII | 0.1 | III/3 | 20 | 2297 |
| **CIG-3** | 1,150 | 46 | CO-5 | XVI-XX | 0.1 | III/2 | 32 | 2330 |
| **CIG-4** | 1,150 | 50 | CO-6 | XVII-XX | 0.1 | III/1 | 54 | 2331 |
| **CIH-1** | 760 | 30 | CO-5 | XIII-XVI | 0.1 | RRR/10 | 35 | 2331 |
| **CIH-2** | 760 | 36 | CO-5 | XIV-XVIII | 0.1 | III/8 | 34 | 2332 |
| **CIH-3** | 760 | 38 | CO-5 | XV-XIX | 0.1 | III/6 | 44 | 2338 |
| **CII-1** | 1,580 | 42 | CO-6 | XIV-XVIII | 0.1 | III/4 | 42 | 2334 |
| **CII-2** | 1,580 | 48 | CO-6 | XVI-XIX | 0.1 | III/2 | 48 | 2341 |
| **CIJ-1** | 2,070 | 55 | CO-7 | XVI-XVIII | 0.1 | III/1 | 65 | 2340 |
| **CIJ-2** | 2,070 | 58 | CO-6 | XVIII-XIX | 0.1 | III/1 | 68 | 2342 |
| **CIJ-3** | 2,070 | 60 | CO-8 | XIX-XX | 0.1 | III/1 | 88 | 2354 |

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | CIA-1<br>*4* | CIA-2<br>*8.5* | CIA-1<br>*3* | CIA-2<br>*5.5* | CIA-1<br>*1.5* | CIA-2<br>*3* | CIA-2<br>*1.5* | | | | | | | | | | | | | | | |
| II | | | CIA-1<br>*3*<br>CIA-2<br>*5.5* | CIA-3<br>*8.5*<br>CIA-4<br>*11.5* | CIA-1<br>*1.5*<br>CIA-2<br>*3* | CIA-3<br>*4*<br>CIA-4<br>*5.5* | CIA-2<br>*1.5*<br>CIA-3<br>*2* | CIA-4<br>*3* | | CIA-4<br>*2* | | | | | | | | | | | | |
| III | | | | | CIA-3<br>*4*<br>CIA-4<br>*5.5* | CIB-1<br>*3* | CIA-3<br>*2*<br>CIA-4<br>*3* | CIB-1<br>*1.5* | | CIA-3<br>*1.5*<br>CIA-4<br>*2* | | | | | | | | | | | | |
| IV | | | | | CIA-4<br>*5.5*<br>CIB-1<br>*3* | CIB-2<br>*7* | CIA-3<br>*2*<br>CIA-4<br>*3* | CIB-1<br>*1.5*<br>CIB-2<br>*3.5* | | CIA-3<br>*1.5*<br>CIA-4<br>*2* | CIB-2<br>*2.5* | | | | | | | | | | | |
| V | | | | | CIA-4<br>*5.5*<br>CIB-1<br>*3* | CIB-2<br>*7*<br>CIC-1<br>*5.5* | CIA-4<br>*3*<br>CIB-1<br>*1.5* | CIB-2<br>*3.5*<br>CIC-1<br>*3* | | CIA-4<br>*2*<br>CIB-2<br>*2.5* | CIC-1<br>*2* | | CIA-4<br>*1.5*<br>CIB-2<br>*2* | | | | | | | | | |
| VI | | | | | CIB-1<br>*3*<br>CIC-1<br>*5.5* | CID-1<br>*14* | CIB-1<br>*1.5*<br>CIB-2<br>*3.5* | CIC-1<br>*3*<br>CID-1<br>*7* | | CIB-2<br>*2.5*<br>CIC-1<br>*2* | CID-1<br>*5* | | CIB-2<br>*2*<br>CIC-1<br>*1.5* | CID-1<br>*3.5* | | CIB-2<br>*1.5* | | | | | | |
| VII | | | | | CIC-1<br>*5.5*<br>CIC-2<br>*10* | CID-1<br>*14* | CIB-2<br>*3.5*<br>CIC-1<br>*3* | CIC-2<br>*5*<br>CID-1<br>*7* | | CIB-2<br>*2.5*<br>CIC-1<br>*2* | CIC-2<br>*3.5*<br>CID-1<br>*5* | | CIB-2<br>*2*<br>CIC-1<br>*1.5* | CIC-2<br>*2.5*<br>CID-1<br>*3.5* | | CIB-2<br>*1.5* | | | | | | |
| VIII | | | | | | | CIB-2<br>*3.5*<br>CIC-1<br>*3* | CIC-2<br>*5*<br>CID-1<br>*7* | CID-2<br>*9* | CIB-2<br>*2.5*<br>CIC-1<br>*2* | CIC-2<br>*3.5*<br>CID-1<br>*5* | CID-2<br>*6* | CIB-2<br>*2*<br>CIC-1<br>*1.5* | CIC-2<br>*2.5*<br>CID-1<br>*3.5* | CID-2<br>*4.5* | CIB-2<br>*1.5* | | | | | | |
| IX | | | | | | | CIB-2<br>*3.5*<br>CIC-1<br>*3*<br>CIC-2<br>*5* | CID-1<br>*7*<br>CID-2<br>*9*<br>CIE-1<br>*11.5* | CIF-1<br>*15.5* | CIB-2<br>*2.5*<br>CIC-1<br>*2*<br>CIC-2<br>*3.5* | CID-1<br>*5*<br>CID-2<br>*6*<br>CIE-1<br>*7.5* | CIF-1<br>*10* | CIB-2<br>*2*<br>CIC-1<br>*1.5*<br>CIC-2<br>*2.5* | CID-1<br>*3.5*<br>CID-2<br>*4.5*<br>CIE-1<br>*5.5* | CIF-1<br>*8* | CIB-2<br>*1.5*<br>CIC-2<br>*2*<br>CID-1<br>*3* | CID-2<br>*4*<br>CIE-1<br>*4.5*<br>CIF-1<br>*6* | | | | | | |
| X | | | | | | | | | | CIC-1<br>*2*<br>CIC-2<br>*3.5* | CID-1<br>*5*<br>CID-2<br>*6* | CIE-1<br>*7.5*<br>CIF-1<br>*10* | CIC-1<br>*1.5*<br>CIC-2<br>*2.5* | CID-1<br>*3.5*<br>CID-2<br>*4.5* | CIE-1<br>*5.5*<br>CIF-1<br>*8* | CIC-2<br>*2*<br>CID-1<br>*3* | CID-2<br>*4*<br>CIE-1<br>*4.5* | CIF-1<br>*6* | CID-1<br>*2*<br>CID-2<br>*3* | CIE-1<br>*4*<br>CIF-1<br>*5* | | CIF-1<br>*4.5* |
| XI | | | | | | | | | | CIC-2<br>*3.5*<br>CID-1<br>*5*<br>CID-2<br>*6* | CIE-1<br>*7.5*<br>CIE-2<br>*9*<br>CIF-1<br>*10* | CIF-2<br>*13.5* | CIC-2<br>*2.5*<br>CID-1<br>*3.5*<br>CID-2<br>*4.5* | CIE-1<br>*5.5*<br>CIE-2<br>*7*<br>CIF-1<br>*8* | CIF-2<br>*10* | CIC-2<br>*2*<br>CID-1<br>*3*<br>CID-2<br>*4* | CIE-1<br>*4.5*<br>CIE-2<br>*5.5*<br>CIF-1<br>*6* | CIF-2<br>*8* | CIC-2<br>*1.5*<br>CID-1<br>*2*<br>CID-2<br>*3* | CIE-1<br>*4*<br>CIE-2<br>*5*<br>CIF-1<br>*5* | CIF-2<br>*6.5* | CIF-1<br>*4.5* |
| XII | | | | | | | | | | | | | CIC-2<br>*2.5*<br>CID-1<br>*3.5*<br>CID-2<br>*4.5* | CIE-1<br>*5.5*<br>CIE-2<br>*7*<br>CIE-3<br>*8.5* | CIF-1<br>*8*<br>CIF-2<br>*10* | CIC-2<br>*2*<br>CID-1<br>*3*<br>CID-2<br>*4* | CIE-1<br>*4.5*<br>CIE-2<br>*5.5*<br>CIE-3<br>*7* | CIF-1<br>*6*<br>CIF-2<br>*8* | CIC-2<br>*1.5*<br>CID-1<br>*2*<br>CID-2<br>*3* | CIE-1<br>*4*<br>CIE-2<br>*5*<br>CIE-3<br>*6* | CIF-1<br>*5*<br>CIF-2<br>*6.5* | CIF-1<br>*4.5* |

# 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 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| XIII | CID-1 3<br>CID-2 4<br>CIE-1 4.5 | CIE-2 5.5<br>CIE-3 7<br>CIF-1 6 | CIF-2 8<br>CIG-1 10<br>CIH-1 8.5 | CID-1 2<br>CID-2 3<br>CIE-1 4 | CIE-2 5<br>CIE-3 6<br>CIF-1 5 | CIF-2 6.5<br>CIG-1 8<br>CIH-1 7 | CID-1 2<br>CID-2 2.5<br>CIE-1 3 | CIE-2 4<br>CIE-3 5<br>CIF-1 4.5 | CIF-2 6<br>CIG-1 7<br>CIH-1 6 | CIH-1 5.5 | | | CIH-1 5 | | | CIH-1 4 | | | | | | | | |
| XIV | CID-1 3<br>CID-2 4<br>CIE-1 4.5<br>CIE-2 5.5 | CIE-3 7<br>CIF-1 6<br>CIF-2 8<br>CIG-1 10 | | CID-1 2<br>CID-2 3<br>CIE-1 4<br>CIE-2 5 | CIE-3 6<br>CIF-1 5<br>CIF-2 6.5<br>CIG-1 8 | CIH-1 7<br>CIH-2 8.5<br>CII-1 10 | CID-1 2<br>CID-2 2.5<br>CIE-1 3<br>CIE-2 4 | CIE-3 5<br>CIF-1 4.5<br>CIF-2 6<br>CIG-1 7 | CIH-1 6<br>CIH-2 7.5<br>CII-1 8.5 | CIH-1 5.5<br>CIH-2 6.5<br>CII-1 7.5 | | | CIH-1 5<br>CIH-2 6<br>CII-1 6.5 | | | CIH-1 4<br>CIH-2 5 | | | | | | | | |
| XV | CID-2 4<br>CIE-2 5.5<br>CIE-3 7<br>CIF-2 8 | CIG-1 10<br>CIG-2 11.5 | | CID-2 3<br>CIE-2 5<br>CIE-3 6<br>CIF-2 6.5 | CIG-1 8<br>CIG-2 9.5<br>CIH-1 7<br>CIH-2 8.5 | CIH-3 9<br>CII-1 10 | CID-2 2.5<br>CIE-2 4<br>CIE-3 5<br>CIF-2 6 | CIG-1 7<br>CIG-2 8<br>CIH-1 6<br>CIH-2 7.5 | CIH-3 8<br>CII-1 8.5 | CID-2 2.5<br>CIE-2 3.5<br>CIE-3 4<br>CIF-2 5 | CIG-1 6<br>CIH-1 5.5<br>CIH-2 6.5<br>CIH-3 7 | CII-1 7.5 | CIH-1 5<br>CIH-2 6<br>CIH-3 6<br>CII-1 6.5 | | | CIH-1 4<br>CIH-2 5<br>CII-1 6 | | | CIH-2 4.5 | | | | | |
| XVI | CIE-3 7<br>CIF-2 8<br>CIG-1 10<br>CIG-2 11.5 | | | CID-2 3<br>CIE-2 5<br>CIE-3 6<br>CIF-2 6.5<br>CIG-1 8 | CIG-2 9.5 | | CID-2 2.5<br>CIE-2 4<br>CIE-3 5<br>CIF-2 6<br>CIG-1 7 | CIG-2 8<br>CIG-3 9.5<br>CIH-1 6<br>CIH-2 7.5<br>CIH-3 8 | CII-1 8.5<br>CII-2 10<br>CIJ-1 11 | CID-2 2.5<br>CIE-2 3.5<br>CIE-3 4<br>CIF-2 5<br>CIG-1 6 | CIG-2 7<br>CIG-3 8<br>CIH-1 5.5<br>CIH-2 6.5<br>CIH-3 7 | CII-1 7.5<br>CII-2 8.5<br>CIJ-1 10 | CIG-3 7.5<br>CIH-1 5<br>CIH-2 6<br>CIH-3 6<br>CII-1 6.5 | CII-2 7.5<br>CIJ-1 9 | | CIG-3 6.5<br>CIH-1 4<br>CIH-2 5<br>CIH-3 5.5<br>CII-1 6 | CII-2 7<br>CIJ-1 8 | | CIG-3 6<br>CIH-1 4<br>CIH-2 4.5<br>CII-2 6 | | | | | |
| XVII | | | | CIE-3 6<br>CIF-2 6.5<br>CIG-1 8<br>CIG-2 9.5 | | | CIE-3 5<br>CIF-2 6<br>CIG-1 7<br>CIG-2 8 | CIG-3 9.5<br>CIH-2 7.5<br>CIH-3 8<br>CII-2 10 | CIJ-1 11 | CIE-3 4<br>CIF-2 5<br>CIG-1 6<br>CIG-2 7 | CIG-3 8<br>CIH-2 6.5<br>CIH-3 7<br>CII-1 7.5 | CII-2 8.5<br>CIJ-1 10 | CIG-3 7.5<br>CIH-2 6<br>CIH-3 6<br>CII-1 6.5 | CII-2 7.5<br>CIJ-1 9 | | CIG-3 6.5<br>CIH-2 5<br>CIH-3 5.5<br>CII-1 6 | CII-2 7<br>CIJ-1 8 | | CIG-3 6<br>CIH-2 4.5<br>CIH-3 5<br>CII-1 5.5 | CII-2 6 | | | | |
| XVIII | | | | | | | CIE-3 5<br>CIF-2 6<br>CIG-2 8 | | | CIE-3 4<br>CIF-2 5<br>CIG-2 7 | | | CIE-3 4<br>CIF-2 4.5<br>CIG-2 6.5<br>CIG-3 7.5 | CIG-4 8<br>CIH-2 6<br>CIH-3 6<br>CII-1 6.5 | CII-2 7.5<br>CIJ-1 9<br>CIJ-2 9 | CIG-3 6.5<br>CIG-4 7<br>CIH-2 5<br>CIH-3 5.5 | CII-1 6<br>CII-2 7<br>CIJ-1 8<br>CIJ-2 8 | | CIG-3 6<br>CIG-4 6.5<br>CIH-2 4.5<br>CIH-3 5 | CII-1 5.5<br>CII-2 6<br>CIJ-1 7<br>CIJ-2 7.5 | | CIG-3 5.5<br>CIG-4 6<br>CIH-2 4<br>CIH-3 4.5 | CII-1 5<br>CII-2 6<br>CIJ-1 6.5<br>CIJ-2 7 | |
| XIX | | | | | | | | | | CIE-3 4<br>CIF-2 5 | CIG-2 7 | | CIE-3 4<br>CIF-2 4.5 | CIG-2 6.5 | | CIG-3 6.5<br>CIG-4 7 | CIH-3 5.5<br>CII-2 7 | CIJ-2 8<br>CIJ-3 8.5 | CIG-3 6<br>CIG-4 6.5 | CIH-3 5<br>CII-2 6 | CIJ-2 7.5<br>CIJ-3 8 | CIG-3 5.5<br>CIG-4 6 | CIH-3 4.5<br>CII-2 6 | CIJ-2 7<br>CIJ-3 7 |
| XX | | | | | | | | | | CIF-2 5<br>CIG-2 7 | | | CIF-2 4.5<br>CIG-2 6.5 | | | CIG-3 6.5<br>CIG-4 7 | CIJ-2 8<br>CIJ-3 8.5 | | CIG-3 6<br>CIG-4 6.5 | CIJ-2 7.5<br>CIJ-3 8 | | CIG-3 5.5<br>CIG-4 6 | CIJ-2 7<br>CIJ-3 7 | |

## SHIELD GENERATOR TYPES

| Shield Generator Type | Total Mass (mt) | Control Computer Requirement | Shield Efficiency Rating | SS Requirememnt | Availability | Cost (MCr) | Year |
|---|---|---|---|---|---|---|---|
| **CSA** | 105 | CO-1 | 1 | 0.9 | RRR/51 | 3 | 2233 |
| **CSB** | 160 | CO-2 | 1 | 1.1 | RRR/48 | 3.5 | 2240 |
| **CSC** | 148 | CO-2 | 1 | 1.9 | RRR/41 | 4 | 2248 |
| **CSD** | 200 | CO-2 | 2 | 1.8 | RRR/39 | 5 | 2251 |
| **CSE** | 395 | CO-3 | 2 | 2.1 | RRR/37 | 8 | 2257 |
| **CSF** | 403 | CO-3 | 2 | 2.4 | RRR/32 | 9 | 2260 |
| **CSG** | 261 | CO-2 | 1 | 2 | RRR/40 | 5 | 2263 |
| **CSH** | 458 | CO-4 | 2 | 2.9 | RRR/34 | 12 | 2265 |
| **CSI** | 675 | CO-6 | 3 | 4.1 | RRR/26 | 14 | 2272 |
| **CSJ** | 507 | CO-3 | 1 | 2.2 | RRR/27 | 6 | 2273 |
| **CSK** | 857 | CO-7 | 3 | 4.8 | RRR/25 | 19 | 2281 |
| **CSL** | 588 | CO-4 | 2 | 3.2 | RRR/28 | 14 | 2286 |
| **CSM** | 695 | CO-4 | 2 | 3.1 | RRR/23 | 20 | 2290 |
| **CSN** | 710 | CO-5 | 2 | 3.4 | RRR/21 | 23 | 2311 |
| **CSO** | 1,750 | CO-8 | 3 | 4.2 | RRR/18 | 40 | 2319 |
| **CSP** | 1,118 | CO-5 | 3 | 3.3 | RRR/17 | 34 | 2323 |
| **CSQ** | 760 | CO-4 | 2 | 3.7 | RRR/14 | 29 | 2332 |
| **CSR** | 901 | CO-5 | 4 | 5.5 | RRR/12 | 36 | 2340 |
| **CSS** | 1,304 | CO-5 | 4 | 5.8 | RRR/11 | 48 | 2342 |
| **CST** | 1,751 | CO-6 | 3 | 4.9 | RRR/10 | 44 | 2346 |
| **CSU** | 2,105 | CO-7 | 4 | 8.7 | RRR/7 | 66 | 2352 |
| **CSV** | 2,456 | CO-7 | 4 | 6.3 | RRR/5 | 72 | 2354 |
| **CSW** | 2,747 | CO-8 | 3 | 4.1 | RRR/3 | 61 | 2358 |
| **CSX** | 2,630 | CO-8 | 4 | 6.6 | RRR/2 | 78 | 2361 |
| **CSY** | 3,170 | CO-8 | 4 | 9.9 | RRR/1 | 90 | 2367 |

# CARDASSIAN UNION

## MAXIMUM SHIELD POWER
### Shield Types/Shield Point Ratios

| Ship Class | 1/1 | | | | | 1/2 | | | | | | | | 1/3 | | | | | | 1/4 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CSA | CSB | CSC | CSG | CSJ | CSD | CSE | CSF | CSH | CSL | CSM | CSN | CSQ | CSI | CSK | CSO | CSP | CST | CSW | CSR | CSS | CSU | CSV | CSX | CSY |
| I | 6 | 9 | 11 | 14 | 15 | 7 | 10 | 12 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 54 | 24 | 32 | 44 | 48 | 52 | 60 |
| | *8.5* | *13* | *15.5* | *20* | *21* | *5* | *7* | *8.5* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *25.5* | *8.5* | *11.5* | *15.5* | *17* | *18.5* | *21* |
| II | 6 | 9 | 11 | 14 | 15 | 7 | 10 | 12 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 54 | 24 | 32 | 44 | 48 | 52 | 60 |
| | *8.5* | *13* | *15.5* | *20* | *21* | *5* | *7* | *8.5* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *25.5* | *8.5* | *11.5* | *15.5* | *17* | *18.5* | *21* |
| III | 5 | 9 | 11 | 14 | 15 | 7 | 9 | 12 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 53 | 24 | 32 | 44 | 48 | 52 | 60 |
| | *7* | *13* | *15.5* | *20* | *21* | *5* | *6.5* | *8.5* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *25* | *8.5* | *11.5* | *15.5* | *17* | *18.5* | *21* |
| IV | 5 | 8 | 10 | 14 | 15 | 7 | 9 | 12 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 53 | 24 | 32 | 44 | 48 | 52 | 60 |
| | *7* | *11.5* | *14* | *20* | *21* | *5* | *6.5* | *8.5* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *25* | *8.5* | *11.5* | *15.5* | *17* | *18.5* | *21* |
| V | 4 | 8 | 10 | 14 | 15 | 7 | 8 | 12 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 52 | 23 | 32 | 44 | 48 | 51 | 60 |
| | *5.5* | *11.5* | *14* | *20* | *21* | *5* | *5.5* | *8.5* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *25* | *8* | *11.5* | *15.5* | *17* | *18* | *21* |
| VI | 4 | 8 | 9 | 14 | 15 | 7 | 8 | 12 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 52 | 23 | 32 | 43 | 48 | 51 | 60 |
| | *5.5* | *11.5* | *13* | *20* | *21* | *5* | *5.5* | *8.5* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *25* | *8* | *11.5* | *15.5* | *17* | *18* | *21* |
| VII | 3 | 7 | 9 | 14 | 15 | 7 | 7 | 12 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 52 | 23 | 31 | 43 | 48 | 50 | 60 |
| | *4* | *10* | *13* | *20* | *21* | *5* | *5* | *8.5* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *25* | *8* | *11* | *15.5* | *17* | *18* | *21* |
| VIII | 3 | 7 | 9 | 14 | 15 | 7 | 7 | 11 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 51 | 22 | 31 | 43 | 48 | 50 | 60 |
| | *4* | *10* | *13* | *20* | *21* | *5* | *5* | *8* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *24* | *8* | *11* | *15.5* | *17* | *18* | *21* |
| | 2 | 7 | 8 | 14 | 15 | 7 | 6 | 11 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 51 | 22 | 31 | 43 | 48 | 50 | 60 |
| | *3* | *10* | *11.5* | *20* | *21* | *5* | *4* | *8* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *24* | *8* | *11* | *15.5* | *17* | *18* | *21* |
| X | 2 | 5 | 8 | 12 | 15 | 7 | 6 | 11 | 16 | 18 | 26 | 30 | 38 | 12 | 17 | 36 | 30 | 39 | 50 | 21 | 31 | 43 | 48 | 49 | 60 |
| | *3* | *7* | *11.5* | *17* | *21* | *5* | *4* | *8* | *11.5* | *13* | *18.5* | *21* | *27* | *5.5* | *8* | *17* | *14* | *18.5* | *24* | *7.5* | *11* | *15.5* | *17* | *17.5* | *21* |
| XI | 1 | 5 | 7 | 12 | 15 | 6 | 5 | 11 | 16 | 18 | 26 | 30 | 38 | 10 | 17 | 36 | 30 | 39 | 50 | 21 | 30 | 43 | 47 | 49 | 60 |
| | *1.5* | *7* | *10* | *17* | *21* | *4* | *3.5* | *8* | *11.5* | *13* | *18.5* | *21* | *27* | *4.5* | *8* | *17* | *14* | *18.5* | *24* | *7.5* | *10.5* | *15.5* | *17* | *17.5* | *21* |
| XII | 1 | 5 | 7 | 12 | 13 | 6 | 5 | 11 | 15 | 18 | 26 | 30 | 38 | 10 | 17 | 36 | 30 | 39 | 50 | 21 | 30 | 43 | 47 | 48 | 60 |
| | 1.5 | 7 | 10 | 17 | 18.5 | 4 | 3.5 | 8 | 10.5 | 13 | 18.5 | 21 | 27 | 4.5 | 8 | 17 | 14 | 18.5 | 24 | 7.5 | 10.5 | 15.5 | 17 | 17 | 21 |
| XIII | - | 3 | 7 | 12 | 13 | 6 | 4 | 11 | 15 | 18 | 26 | 30 | 38 | 10 | 17 | 36 | 29 | 38 | 49 | 20 | 30 | 43 | 47 | 48 | 60 |
| | - | 4 | 10 | 17 | 18.5 | 4 | 3 | 8 | 10.5 | 13 | 18.5 | 21 | 27 | 4.5 | 8 | 17 | 14 | 18 | 23 | 7 | 10.5 | 15.5 | 17 | 17 | 21 |
| XIV | - | 3 | 6 | 12 | 13 | 6 | 4 | 10 | 15 | 18 | 26 | 30 | 38 | 10 | 17 | 36 | 29 | 38 | 49 | 20 | 30 | 43 | 47 | 48 | 60 |
| | - | 4 | 8.5 | 17 | 18.5 | 4 | 3 | 7 | 10.5 | 13 | 18.5 | 21 | 27 | 4.5 | 8 | 17 | 14 | 18 | 23 | 7 | 10.5 | 15.5 | 17 | 17 | 21 |
| XV | - | 1 | 6 | 10 | 13 | 6 | 3 | 10 | 15 | 18 | 26 | 28 | 38 | 10 | 17 | 36 | 29 | 38 | 48 | 20 | 29 | 42 | 47 | 47 | 60 |
| | - | 1.5 | 8.5 | 14 | 18.5 | 4 | 2 | 7 | 10.5 | 13 | 18.5 | 20 | 27 | 4.5 | 8 | 17 | 14 | 18 | 23 | 7 | 10.5 | 15 | 17 | 17 | 21 |
| XVI | - | - | 5 | 10 | 13 | 5 | 3 | 10 | 14 | 16 | 26 | 28 | 38 | 10 | 17 | 36 | 29 | 38 | 48 | 19 | 29 | 42 | 47 | 47 | 60 |
| | - | - | 7 | 14 | 18.5 | 3.5 | 2 | 7 | 10 | 11.5 | 18.5 | 20 | 27 | 4.5 | 8 | 17 | 14 | 18 | 23 | 6.5 | 10.5 | 15 | 17 | 17 | 21 |
| XVII | - | - | 5 | 10 | 10 | 5 | 2 | 10 | 14 | 16 | 26 | 28 | 34 | 10 | 17 | 36 | 29 | 38 | 48 | 19 | 29 | 42 | 47 | 47 | 60 |
| | - | - | 7 | 14 | 14 | 3.5 | 1.5 | 7 | 10 | 11.5 | 18.5 | 20 | 24 | 4.5 | 8 | 17 | 14 | 18 | 23 | 6.5 | 10.5 | 15 | 17 | 17 | 21 |
| XVIII | - | - | 5 | 10 | 10 | 5 | 2 | 10 | 14 | 16 | 25 | 28 | 30 | 8 | 17 | 30 | 29 | 37 | 47 | 19 | 29 | 42 | 47 | 46 | 60 |
| | - | - | 7 | 14 | 14 | 3.5 | 1.5 | 7 | 10 | 11.5 | 18 | 20 | 21 | 3.5 | 8 | 14 | 14 | 17.5 | 22 | 6.5 | 10.5 | 15 | 17 | 16 | 21 |
| XIX | - | - | 4 | 8 | 10 | 5 | 1 | 9 | 14 | 16 | 24 | 28 | 26 | 8 | 17 | 24 | 29 | 37 | 47 | 18 | 28 | 42 | 46 | 45 | 59 |
| | - | - | 5.5 | 11.5 | 14 | 3.5 | 0.5 | 6.5 | 10 | 11.5 | 17 | 20 | 18.5 | 3.5 | 8 | 11.5 | 14 | 17.5 | 22 | 6.5 | 10 | 15 | 16 | 16 | 21 |
| XX | - | - | 3 | 8 | 9 | 4 | 1 | 9 | 14 | 16 | 23 | 28 | 20 | 8 | 17 | 18 | 29 | 37 | 46 | 17 | 27 | 42 | 46 | 45 | 58 |
| | - | - | 4 | 11.5 | 13 | 3 | 0.5 | 6.5 | 10 | 11.5 | 16 | 20 | 14 | 3.5 | 8 | 8.5 | 14 | 17.5 | 22 | 6 | 9.5 | 15 | 16 | 16 | 20.5 |

# CARDASSIAN UNION

## DISRUPTOR BEAM WEAPON TYPES

| Phaser Weapon Type | Total Mass (mt) | Maximum Beam Power | Damage Modifiers +3 | +2 | +1 | Maximum Range (Hex) | Firing Chart | Weapon Damaging Factor | SS Requirements (single / bank) | Availability | Cost (MCr) | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CD-1** | 199 | 2 | (-) | (-) | (-) | 8 | F | 0.5 | 0.6 / 1.2 | RRI/54 | 29 | 2242 |
| **CD-2** | 244 | 3 | (-) | (-) | (1-10) | 10 | G | 1.1 | 0.7 / 1.4 | RRI/46 | 36 | 2246 |
| **CD-2b** | 293 | 4 | (-) | (-) | (1-10) | 10 | G | 1.3 | 0.6 / 1.2 | III/37 | 44 | 2252 |
| **CD-3** | 308 | 3 | (-) | (-) | (1-10) | 10 | J | 1.6 | 0.4 / 0.8 | RRI/42 | 46 | 2258 |
| **CD-4** | 510 | 6 | (-) | (1-5) | (6-13) | 16 | N | 3.6 | 0.9 / 1.8 | III/29 | 76 | 2265 |
| **CD-5** | 604 | 5 | (1-8) | (9-14) | (15-22) | 22 | X | 5.5 | 1.2 / 2.4 | III/18 | 91 | 2273 |
| **CD-6** | 597 | 8 | (1-5) | (6-10) | (11-18) | 18 | T | 6.4 | 1.3 / 2.6 | III/20 | 90 | 2276 |
| **CD-6b** | 694 | 9 | (1-6) | (7-15) | (18-20) | 20 | U | 7.5 | 2.6 / 5.2 | III/13 | 104 | 2289 |
| **CD-7** | 612 | 12 | (1-5) | (6-10) | (11-18) | 18 | T | 9.1 | 3.5 / 7 | III/8 | 92 | 2302 |
| **CD-8** | 904 | 16 | (1-7) | (8-15) | (16-20) | 20 | W | 14.1 | 3.6 / 7.2 | III/4 | 137 | 2319 |
| **CD-9** | 869 | 18 | (1-6) | (7-15) | (18-20) | 20 | U | 13.6 | 2.9 / 5.8 | III/1 | 131 | 2331 |
| **CD-10** | 991 | 14 | (1-17) | (18-19) | (20-21) | 21 | V | 11.8 | 2.7 / 5.4 | III/5 | 149 | 2333 |
| **CD-11** | 779 | 11 | (1-2) | (3-9) | (10-16) | 24 | Y | 10.7 | 2.1 / 4.2 | III/6 | 117 | 2334 |
| **CD-12** | 1,068 | 15 | (-) | (-) | (1-10) | 22 | X | 11.9 | 2.6 / 5.2 | III/4 | 161 | 2335 |
| **CD-13** | 369 | 8 | (1-8) | (9-19) | (20-21) | 24 | Y | 8.8 | 1.1 / 2.2 | III/16 | 56 | 2337 |
| **CD-14** | 1,209 | 17 | (1-14) | (15-18) | (19-20) | 20 | W | 15.3 | 3.1 / 6.2 | III/3 | 182 | 2341 |
| **CD-15** | 1,413 | 20 | (1-5) | (6-8) | (9-18) | 20 | U | 14.6 | 3.6 / 7.2 | III/2 | 213 | 2346 |
| **CD-16** | 1,554 | 22 | (-) | (1-2) | (3-15) | 22 | X | 17.8 | 4.5 / 9 | III/2 | 234 | 2351 |
| **CD-17** | 1,778 | 25 | (1-7) | (8-15) | (16-20) | 20 | W | 21.4 | 5.1 / 10.2 | III/2 | 268 | 2354 |
| **CD-18** | 1,344 | 19 | (1-18) | (19-20) | (21-22) | 22 | X | 17.3 | 2.4 / 4.8 | III/3 | 203 | 2358 |
| **CD-19** | 1,841 | 26 | (1-6) | (7-15) | (18-20) | 20 | U | 19 | 4.1 / 8.2 | III/2 | 278 | 2360 |
| **CD-20** | 1,980 | 28 | (1-7) | (8-15) | (16-20) | 20 | W | 23.5 | 4.3 / 8.6 | III/2 | 299 | 2363 |
| **CD-21** | 851 | 12 | (1-6) | (7-11) | (12-18) | 24 | Y | 11.9 | 2.9 / 5.8 | III/5 | 128 | 2365 |
| **CD-22** | 2,133 | 30 | (1-17) | (18-19) | (20-21) | 21 | V | 23.2 | 5.9 / 11.8 | III/1 | 322 | 2367 |

## SPIRAL WAVE DISRUPTOR WEAPON TYPES

| Phaser Weapon Type | Total Mass (mt) | Maximum Beam Power | Damage Modifiers +3 | +2 | +1 | Maximum Range (Hex) | Firing Chart | Weapon Damaging Factor | SS Requirements (single / bank) | Availability | Cost (MCr) | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CSD-1** | 464 | 8 | (-) | (-) | (-) | 8 | F | 2 | 1.1 / 2.5 | RRI/12 | 69 | 2256 |
| **CSD-2** | 569 | 12 | (-) | (-) | (1-10) | 10 | G | 3.5 | 1.3 / 3 | III/7 | 85 | 2259 |
| **CSD-3** | 769 | 13 | (-) | (-) | (1-10) | 10 | J | 5.6 | 1.4 / 3.2 | III/6 | 115 | 2264 |
| **CSD-4** | 1,125 | 20 | (-) | (1-5) | (6-13) | 16 | N | 10.6 | 2.1 / 4.8 | III/3 | 169 | 2268 |
| **CSD-5** | 983 | 16 | (1-8) | (9-14) | (15-22) | 22 | X | 14.3 | 3.9 / 8.8 | III/2 | 148 | 2276 |
| **CSD-6** | 1,292 | 9.75 | (1-5) | (6-10) | (11-18) | 18 | T | 18.3 | 5.5 / 12.4 | III/1 | 195 | 2283 |
| **CSD-7** | 1,325 | 38 | (1-5) | (6-10) | (11-18) | 18 | T | 26.3 | 8.5 / 19.2 | III/1 | 201 | 2299 |
| **CSD-8** | 1,476 | 30 | (1-10) | (11-14) | (15-16) | 16 | S | 21 | 7.1 / 16 | III/1 | 223 | 2318 |
| **CSD-9** | 2,050 | 42 | (1-7) | (8-11) | (12-18) | 18 | T | 29 | 11 / 24.8 | III/1 | 310 | 2337 |
| **CSD-10** | 2,213 | 46 | (1-7) | (8-11) | (12-18) | 18 | T | 31.7 | 11.9 / 26.8 | III/1 | 335 | 2346 |
| **CSD-11** | 1,737 | 35 | (1-17) | (18-19) | (20-21) | 21 | V | 26.7 | 9.8 / 22.1 | III/1 | 263 | 2359 |
| **CSD-12** | 2,454 | 52 | (-) | (1-8) | (9-10) | 14 | Q | 28.5 | 14.1 / 31.8 | III/1 | 370 | 2362 |

## PHOTON TORPEDO WEAPON TYPES

| Missile Weapon Type | Mass (mt) | Power to Arm | Damage | Range | Firing Chart | WDF | SS | Availability | Cost (MCr) | Year |
|---|---|---|---|---|---|---|---|---|---|---|
| **CP-1** | 257 | 1 | 6 | 10 | H | 1.9 | 0.5 | RRR/21 | 39 | 2251 |
| **CP-2** | 265 | 1 | 10 | 12 | L | 5.8 | 1.1 | RIR/17 | 40 | 2253 |
| **CP-3** | 214 | 1 | 8 | 18 | T | 5 | 0.6 | RRR/19 | 32 | 2252 |
| **CP-4** | 185 | 1 | 12 | 13 | N | 5.8 | 1.5 | III/15 | 28 | 2257 |
| **CP-5** | 245 | 1 | 16 | 18 | P | 8.7 | 1.7 | III/10 | 37 | 2264 |
| **CP-6** | 305 | 1 | 26 | 16 | R | 15.4 | 2.1 | III/7 | 46 | 2279 |
| **CP-7** | 490 | 1 | 35 | 14 | Q | 19.1 | 3.8 | III/2 | 74 | 2296 |
| **CP-8** | 405 | 1 | 28 | 16 | S | 17.5 | 2.4 | III/6 | 61 | 2306 |
| **CP-9** | 260 | 1 | 18 | 18 | T | 11.4 | 1.1 | III/9 | 39 | 2318 |
| **CP-10** | 290 | 1 | 20 | 16 | R | 11.9 | 1.3 | III/8 | 44 | 2326 |
| **CP-11** | 555 | 1 | 38 | 16 | R | 22.6 | 3.1 | III/3 | 83 | 2343 |
| **CP-12** | 355 | 1 | 25 | 18 | U | 16.3 | 2.6 | III/4 | 53 | 2351 |
| **CP-13** | 435 | 1 | 30 | 16 | S | 18.7 | 3.3 | III/3 | 65 | 2358 |
| **CP-14** | 575 | 1 | 40 | 18 | T | 25.4 | 4.1 | III/1 | 86 | 2366 |

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