

Expanded Starship System Charts

by

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Introduction

So far in the *Logbook's* two year history, we have seen a healthy dose of creative starship designs grace its pages. Most of these ship specifications adopt, to varying degrees, the more-or-less official FASA-type system, which I've found to be a rather convenient basis for comparing starships. If you've seen the Federation Ship Recognition Manual, for instance, you know how the *Enterprise* stacks up against other ships like the *Constitution*, *Reliant*, and even the then-experimental *Excelsior*. Despite a few minor inconsistencies, the system has worked well...up to a point. That point lies just before the introduction of the NCC-1701-A. From then on we have run out of advanced systems with which to equip newer and newer ships, all the way up to the Next Generation era. A great opportunity to fill this void should have been realized within the pages of the subsequent ST:TNG Officer's Manual, but FASA blew it, especially on the *Galaxy*

Class. What measly stats! I couldn't take them seriously.

At that point, I decided to redo those stats myself, taking into account the 75+ years of continual advancements achieved... and that's a LOT of advancement, so the results should be impressive, at least twice as good in every category as the NCC-1701-B. After I devised the systems that operate on that level, I went back to "fill the void" on the earlier systems that span the time between 1701-A and -D.

The results of these efforts are reprinted here for your consideration. You may certainly disregard any of it, since these are hardly official charts; yet they were drafted to better equip your starship with technology appropriate to its timeframe. Hopefully, these systems charts – and the starship designs to come that use them – will help bring us into a closer concordance. It's in our name, after all.

ENGINES

(v= version; lighter engines generally less complex as well)

TRANSWARP

Type	Power	Debut	Notes
FTWA - 1v1	38	2/2201	Test engine
FTWA - 1v2	48	2/2404	
FTWA - 1v3	48	2/4103	Lighter than 1v2
FTWA - 1v4	50	2/5902	
FTWA - 1v5	60	2/7909	Test engine
FTWA - 1v6	55	2/8101	Lighter than 1v4
FTWA - 2v1	52	2/7504	
FTWA - 2v2	54	2/8911	
FTWB - 1v1	32	2/2506	
FTWB - 2v1	34	2/3607	
FTWB - 2v2	34	2/5910	Lighter than 2v1
FTWB - 2v3	36	2/6702	
FTWC - 1v1	20	2/2206	
FTWC - 1v2	20	2/4908	Lighter than 1v1
FTWC - 1v3	22	2/5812	
FTWC - 2v1	25	2/2207	AKA FTWG
FTWC - 2v2	25	2/3402	Lighter than 2v1
FTWC - 2v3	26	2/5009	
FTWC - 2v4	28	2/6602	
FTWD - 1	FAILED SPECIFICATION		
FTWD-2v1	40	2/4001	
FTWD-2v2	42	2/6103	Lighter than 2v1
FTWD-2v3	44	2/7902	Lighter than 2v2
FTWE-1v1	30	2/7803	Smallest, newest
FTWE-1v2	32	2/8707	
FTWE-1v3	34	2/9610	
FTWE-1v4	38	3/0102	

ULTRAWRAP

Type	Power	Debut	Notes
FUWA-1v1	80	3/0107	
FUWA-1v2	78	3/0505	Smaller version of 1v1

IMPULSE

Type	Power	Debut	Notes
FIH-1	10	2/3108	Replaced F-series in class 5+ ships
FIH-2	20	2/3301	
FIH-3	25	2/3501	
FIJ-1	36	2/4207	Available for class 8+ ships
FIJ-2	38	2/5102	
FIK-1	44	2/5811	Replaced G-series in class 11+ ships
FIK-2	45	2/6405	
FIK-3	48	2/6906	
FIL-1	22	2/6612	Replaced H-series in class 3+ ships
FIL-2	26	2/7101	
FIL-3	30	2/7501	
FIM-1	50	2/9903	Available for class 14+ ships
FIM-2	55	3/0404	

COMPUTERS

"A" designates advanced version (enhanced computational power and tactical capacity)

Type	Relative rating of baseline computational power*	Maximum WDF allowance	Class compatibility (as of SD 2/9501)
M-1	18	30	
M-2	23	40	
M-3	28	50	
M-4	38	70	
M-4A	58	80	
M-5	FAILED SPECIFICATION		
M-6	50	90	
M-6A	73	130	
M-7	83	150	1-4
M-7A	98	190	
M-8	100	200	3-7
M-8A	178	230	
M-9	303	255	6-10
M-9A	400	285	
M-10	500	290	9-15
M-10A	613	330	
M-11	750	350	10-16
M-11A	828	400	
M-12	1000	500	12-18
M-12A	1175	600	

NOTES

* - upgrades improve rating correspondingly; ratings may vary from ship to ship.

As time progresses, computer designations such as M-7, M-8, etc., will denote a particular level of computational power, rather than a specific system. (The M-8 computational power required by a 23rd-century battleship will be appropriate to a 24th-century scout, though both ships utilize wholly different computer systems).

SHIELDS

* - denotes new system

Type	Ratio	Max power
FSO	1/3	16
FSP	1/4	16
FSQ	1/4	18
*FSR	1/4	12
FSS	1/4	20
*FST	1/4	24
*FSU-A	1/5	15
*FSU-B	1/5	20
*FSU-C	1/5	25
*FSV-A	1/5	30
*FSV-B	1/5	35
*FSW-A	1/6	24
*FSW-B	1/6	27
*FSW-C	1/6	30
*FSX-A	1/6	36
*FSX-B	1/7	42

multi-layer
capacity
(up to 3)

NOTES

Gradually, top-line 23rd-century shield systems will be made available for smaller and smaller vessels, to the point where an FSS is compatible with a 24th-century scout ship.

PHASERS

Type	Maximum power	Firing chart	Range (km*10 ³)	+3	Damage modifiers		WDF	Debut year	Smallest class*	Notes
					+2	+1				
FH-10	7	W	20	1-10	11-17	18-20	9.7	2/1204	8	
FH-11	10	Y	24	1-10	11-17	18-24	10.7	2/1501	9	
FH-12	6	R	16		1-9	10-16	4.9	2/1702	2	
FH-13	8	T	18	1-5	6-12	13-18	6.5	2/1806	8	
FH-14	5	Y	24		1-12	13-24	6.2	2/2601	5	
FH-15	12	Y	24	1-10	11-17	18-24	11.1	2/2609	10	FH-11 upgrade
FH-16	9	Q-2	28	1-10	11-19	20-28	10.2	2/3010	7	
FH-17	11	S-2	32	1-12	13-24	25-32	12.3	2/3506	6	
FH-18	8	S-2	32	1-12	13-24	25-32	10.4	2/3803	4	
FH-19	13	Q-2	28	1-10	11-19	20-28	12.6	2/4405	8	
FH-20	10	T-2	36	1-12	13-24	25-36	12.0	2/4911	8	
FH-21	14	S-2	32	1-12	13-24	25-32	13.3	2/5008	10	FH-15 upgrade
FH-22	6	T-2	36	1-12	13-24	25-36	7.2	2/5501	3	"Mighty Mini"
FH-23	7	U-2	40	1-12	13-24	25-40	8.4	2/5907	1	"Mightier Mini"
FH-24	8	W-2	40	1-16	17-28	29-40	8.7	2/6402	6	
FH-25	15	W-2	40	1-16	17-28	29-40	16.0	2/7210	14	
FH-26	10	Y-2	48	1-21	22-38	39-48	11.2	2/7707	8	Half-intensity FH-28
FH-27	16	W	20	1-10	11-17	18-20	16.5	2/8304	8	High-intensity FH-25
FH-28	20	Y-2	48	1-21	22-38	39-48	22.4	2/9503	14	GALAXY spec
FH-29	15	Y-2	48	1-21	22-38	39-48	16.8	3/0310	12	FH-25 upgrade
FH-30	20	S-2	32	1-12	13-24	25-32	18.9	3/0409	7	High-intensity FH-27

* Typically the smallest class that can mount one bank of two. Larger classes can mount more banks.

new
↑

PHOTON TORPEDOES

Type	Damage	Firing chart	Range (km x 10 ⁻³)	WDE	Debut year	Smallest class	Notes
FP-4	20	S	16	12.5	2/0206	8	
FP-5	16	R	16	9.5	2/1002	8	
FP-6	12	O	14	6.7	2/1404	7	
FP-7	8	R	16	4.8	2/1702	5	
FP-8	14	S	16	9.1	2/2503	2	Lighter, heavy-duty FP-7
FP-9	20	W	20	13.0	2/2801	8	FP-4 upgrade
FP-10	10	W	20	6.5	2/3305	6	
FP-11	12	Y	24	8.1	2/3911	8	
FP-12	22	Y	24	15.2	2/4506	10	FP-9 upgrade
FP-13	8	Y	24	5.7	2/4701	2	
FP-14	10	Q-2	28	6.8	2/5002	5	
FP-15	8	S-2	32	5.9	2/5810	4	
FP-16	24	Q-2	28	16.0	2/6404	11	FP-12 upgrade
FP-17	15	Q-2	28	10.1	2/6911	6	FP-14 upgrade
FP-18	30	S-2	32	20.3	2/7703	15	
FP-19	16	S-2	32	10.8	2/8606	5	FP-17 upgrade
FP-20	25	S-2	32	17.6	3/0103	10	First multi-warhead

new →

SHIP CLASS TONNAGE LIMITS (unadjusted, included merely for reference)

Class	Metric tons
1	1-4999
2	5k +
3	15k+
4	25k+
5	40k+
6	60k+
7	80k+
8	100k+
9	120k+
10	140k+
11	160k+
12	180k+
13	210k+
14	240k+
15	300k+
16	350k+
17	400k+
18	450k+
19	500k+
20	600k - 700k

FIRING CHARTS

Chance to hit	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
N	1-2	3-4	5-6	7	8	9	10	11	12	13
O	1-2	3-4	5-6	7	8	9-10	11	12	13	14
P			1-3	4-6	7-9	10-11	12-13	14-15	16-17	18
Q	1-3	4-5	6-7	8	9	10	11	12	13	14
R	1-2	3-4	5-6	7-8	9-10	11-12	13	14	15	16
S	1-3	4-5	6-7	8-9	10-11	12	13	14	15	16
T	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17	18
U	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20
V		1-2	3-5	6-8	9-11	12-14	15-16	17-18	19-20	21
W	1-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19	20
X	1-3	4-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22
Y	1-3	4-6	7-9	10-12	13-14	15-16	17-18	19-20	21-22	23-24

c
h
a
r
t

New charts

Q-2	1-6	7-10	11-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28
S-2	1-6	7-10	11-14	15-18	19-22	23-24	25-26	27-28	29-30	31-32
T-2	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-34	35-36
U-2	1-4	5-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40
W-2	1-8	9-12	13-16	17-20	21-24	25-28	29-32	33-36	37-38	39-40
X-2	1-6	7-12	13-16	17-20	21-24	25-28	29-32	33-36	37-40	41-44
Y-2	1-6	7-12	13-18	19-24	25-28	29-32	33-36	37-40	41-44	45-48

Kilometer ranges x 10,000