

Tenacious Class Heavy Patrol Cruiser

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Classification:	Tenacious Class Patrol Cruiser		
Class:	XIII		
Model:	Mk I		
Class Commission Date:	2349		
Number Proposed:	20		
Constructed:	5		
Refit:			
Lost:			
Destroyed:			
Scrapped:			
Training:			
Captured:			
Sold:			
Superstructure:	89		
Damage Chart:			
Dimensions:			
Length:			
Width:			
Height:			
Displacement:	239255 mt		
Cargo Specs			
Total SCU:	161 SCU		
Cargo Capacity:	241500 mt		
Computer Type:	M-7 (two cores, for a max WDF of 270)		
Landing Capacity:	None		
Cloaking Device/ECM:	NONE		
Power to Engage:			
Transporters-			
6-person:	4		
20-person Combat:	6		
22-person Emergency:	7		
cargo:	9		
Laboratories:			
Brigs:	20		
Replicators:	11		
Shuttlecraft:			
Standard Shuttle:	13		
Heavy Shuttle:			
Cargo Shuttle:			
Combat Shuttle:	18		
Ships Complement:	447		
Officers:	89		
Enlisted:	358		
Troops:	120		
Passengers:			
ENGINEERING-			
Total Power Available:	88		
Movement Point Ratio:	2/1		
Warp Engine Type:	FWB-2		
Number:	4		
Power Units:	14		
Stress Chart:	L/N		
Optimum Speed:	Warp 7		
Max Safe Cruising:	Warp 8.1		
Impulse Engine Type:	FIG-2		
Power Units:	32		
WEAPONS/DEFENSE			
Beam Weapon:	FH-20		
Firing Arcs:	f, p, s, a		
Firing Chart:	Y		
Maximum Power:	14		
Damage Modifiers			
+3	(1-14)		
+2	(15-19)		
+1	(20-24)		
Beam Weapon:	FMH-9		
Firing Arcs:	f, p, s, a		
Firing Chart:	T		
Maximum Power:	25		
Damage Modifiers			
+3	(1-5)		
+2	(6-12)		
+1	(13-18)		
Torpedo Type:	FP-10		
Firing Arcs:	f, p, s, a		
Firing Chart:	R		
Power To Arm:	1		
Damage:	34		
Shields-			
Shield Type:	FSN		
Shield Point Ratio:	2/1		
Maximum Shield:	16		
Combat Efficiency			
D-	744.8		
WDF-	276.3		
WDF-	269.6		

USS Tenacious (NX-72941)**Tenacious Class Heavy Patrol Cruiser (CPH)****"What part of 'STOP' don't you understand?"**

The Tenacious class patrol cruiser grew out of the arguments raised from the Borg encounter at Wolf-359 and the Dominion War; a need was perceived for a purely military vessel, capable of carrying a company of 120 ground forces or Starfleet marines personnel, while being an effective weapons platform, to allow for all forms of border patrol encounters, from boarding actions, to light surgical strikes against planetary targets.

Intended at first to allow the Starfleet Border Service to perform first-defence actions while the rest of Starfleet managed to get to the incident location, the design was noticed by the SFMC, and a requirement was added to the procurement order to allow a small number of the hulls to be added, and conversion effected to install 30 drop capsule tubes, while increasing the number of shuttles the vessel carried (6 x class 1 armoured assault shuttles); this proved to be so effective a requirement, that the original design was modified to suit, and the first hull was laid down two weeks before the cessation of hostilities with the Dominion.

The shuttle bays are capable of launching and recovering ten shuttles per minute, and the drop launcher tubes are capable of dispatching a 120-person company of troops into a combat environment in five minutes flat.

However, on an operational standpoint, there is one crucial limiting factor to the class: length of mission endurance. Due to the addition of the GADP facilities and magazines, the normal cargo hold capacity of this class of vessel has been reduced. Instead of the normal five year mandated Starfleet minimum, this class has a one year maximum, which means that these ships tend to put into starbases five times more frequently for restocking than other ships of the class. This compares with the operational problems of the Lokyer class, nearly a century before. Never the less, StarFleet command deemed the creation of this kind of vessel important enough to warrant the limitation, and has bolstered endurance by scheduling replenishment in space (RIS), using auxilliary transport fleet ships, in an echo of the Replenishment At Sea methods used in Earth's twentieth and early twenty-first centuries.

There are twenty vessels of this class currently planned, with the first going to Starfleet Operations, ten going to the Federation Border service, five to the SFMC Logistics Command (under Starfleet), and the final four going to Starfleet. The USS Tenacious (NX-72941) was the first of the class launching from Utopia Planitia in the first quarter of 2375, and aced her space trials with consummate ease. There are currently three ships planned to be launched per year.

Non-Standard Construction notes**ADDITIONAL SHUTTLE BAYS**

The additional shuttle bays and shuttles were accounted for using "Redcap's House Construction Rules # 1 - Shuttle Bays"

<http://forum.trek-rpg.net/showthread.php?s=&threadid=11012>

Calculations:

There will be three combat shuttle bays, containing 6 shuttles (5 operational, 1 reserve per bay) apiece.

Shuttle bay calculations: 3 SS at 1.5 MCr

Shuttle calculations: 18.72 SS, 220.32 SCU

Total additional SuperStructure: 21.72 SS, 220.32 SCU at 1.5 MCr.

DROP TUBES AND PODS

See "Redcap's Construction House Rules #2 - Grav Assault Drop Pods"
<http://forum.trek-rpg.net/showthread.php?s=&threadid=11012>

Three modules are fitted to the Tenacious class, with a magazine of 120 GDAPs.

Total requirements:

GDAPs: 120 SCU, at 60 MCr

Tubes: 6 SS, 180 SCU, 75 MCr

OVERALL NOTES

Given that this went well over the original class limit for class IX ships, the additional size factor meant that this ship had to be raised by four class sizes, in order to accomodate the landing decks, and drop tube assemblies while retaining some cargo hold capacity (on-voyage supplies, etc). This has been added manually into the spreadsheet calculations, by adding 74 points of superstructure (making the allowable mass close to the class XIII limit), and lowering the available cargo hold capacity by roughly a third.

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