

EXCALIBUR CLASS SPACE CONTROL VESSEL

The Excalibur Class Space Control Vessel Peace Through Firepower – The Next Generation

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The *Griffon* class of Space Control Ships has been in much demand since they were commissioned is the late 60s. The Dominion War, the Voth War, and various hot spots throughout the past 30 years have had them being deployed to show the flag and, more often than now, waving it forcefully on behalf of Federation interests. But with only three commissioned vessels, their operational tempo has been higher than normal and has not allowed a normal deployment schedule: one ship on maneuvers, one ship on standby, and one ship in dry-dock undergoing maintenance or upgrade. In order to make sure at least one ship would be on patrol in each quadrant of the Federation, Starfleet decided to commission a new class of SCS that is larger, more powerful, and able to respond to a crisis quicker using newly proven technologies.

Past experience has proven that, although keeping these behemoths on station has often lead to stability in the region, when they were deployed it often causes the opposition to respond in kind; more than once a SCS was almost lost to an ambush or a situation where enemy force strength was under-estimated. With slipstream technology in the early stages of deployment, it now becomes possible to develop a strategy of "prepared lightening deployment": assessing a threat, adapting the counter forces to said threat, and then deploying the counter force quickly and over a long distance. Therefore the *Excalibur* is the first class of large capital ship that will be equipped with a slipstream drive. It has been also decided that the last of the *Griffons* commissioned, the *Royal Sovereign*, will be taken out of commission so a study can be done to determine if it can be retrofitted with a slipstream drive.

GENERAL APPEARANCE:

With larger and larger vessels coming into circulation, Starfleet has finally decided to play catch-up with the *Excalibur*. It is without a doubt the largest ship in the fleet at 1225 meters in length and rivals the Dominion *Battleship* class, which was, according to confidential sources, a deliberate decision. Its shape is almost an enlarged version the *Sovereign* class heavy cruiser. This was very deliberate, as the shape is very warp-dynamic and also acts to reduce its sensor profile. The shape also lends to better dynamics for slipstream travel.

The hull is reinforced at various strategic with ablative armor to enhance it's combat survivability, plus it's SIF can be reinforced to 150 percent of normal operating capacity for limited periods of time.

PROPULSION AND POWER SYSTEMS:

A big ship requires a big engine to move it. The LF-50 Mod 1 warp drive is as big as they come, allowing the *Excalibur* to get to standard warp speeds of up to 9.5 cruising and a maximum speed of warp 9.8. The LF-50 Mod 3 is an updated adaptation of the units used on the *Discovery* class of explorers, which is quite ironic considering the slipstream drive used on the *Excalibur* is also an updated and adapted design from the *Discovery* class as well. Two nacelles are mounted parallel to the secondary hull like the *Intrepid* class explorers.

The HAN-210 Mk 2 Quantum Slipstream unit is mounted in the secondary navigational deflector on the dorsal side of the saucer section, allowing a more focused and controllable tunnel, unlike the first slipstream drives that used the navigational deflector of the engineering section to generate the wormhole tunnel. This often jury-rigged system was more unstable and didn't allow

the ship to remain in slipstream for as long as the next generation does now. The shape of the *Excalibur* facilitates a relatively straight power conduit to the slipstream deflector, aiding power efficiency.

The slipstream drive allows the *Excalibur* to go to speeds of up to 9.9995, allowing it to traverse the distance of Earth to either any border point of the Federation within 1 - 2 days.

Both engine systems, plus running all the other components on the vessel, require a large M/AM core, which is easily accommodated within such a large ship.

The impulse and RSC systems use time-honored technology, updated for the size of vessel.

TACTICAL SYSTEMS:

As a SCS, the *Excalibur* must be equipped to handle any known threat as of it's commissioning. With events of the last ten years Starfleet had no problems arming the Excalibur to the teeth. The ventral portion of the saucer section holds a Type XV Mod 1 phaser cannon, a more efficient version of the original mounted on the *Entente* class of dreadnaughts. Also included are no less than 14 Type XII phaser strips situated to provide multiple beams for all angles of attack. And to complete the phaser ensemble, 20 Type IV Point Defense phasers dot the ship to defend against fighters and missiles.

Three Mark 100 Torpedo Launcher turrets complete the offensive ensemble. These launchers can fire standard Photon, updated Quantum, and the recently introduced Transphasic torpedoes. The last class of weapon is only used as a last resort or if the situation is considered "dire" due to their proven destructive nature to the "environment" of space; their release for use is authorized only by the Chief of Operations, Vice Commander, Starfleet or Commander, Starfleet and is done so by a coded transmission procedure reminiscent of command release of ancient nuclear weapons on Earth.

Protection is also the best Federation technology has to offer. The FSS-M multiphasic shield grid is considered the most advanced in the fleet, and naturally come equipped on the *Excalibur*. It can currently protect against any kind of weapon, including those chronotonic in nature. As well, if necessary, photonic ablative armor modules are stored onboard can be installed with minimal technical expertise and without a dry-dock in 12 hours. The armor has been refined since the Voth war, where it proved less than adequate, so that it will now hold against more types of energy signatures.

COMPUTER SYSTEM:

The M-16 has been a standard since the *Intrepid*, with bio-neural gel packs allowing for quicker computations and more storage power. That computational power is needed when navigating slipstream as well as coordinating direction for a large fleet formation and/or possible landing operations on several planets. The AEGIS Mk 7 Mod 3 fleet fire control system is a modification of the tried and tried fleet battle management system with the ability to coordinate marine formations as well as space forces. A Combat Information Center (CIC), enlarged to accommodate marine personnel for any ground operations, and a flag plot is also included.

SHIPS FACILITIES:

Although the primary purpose of the *Excalibur* is space control, it also can perform exploration duties in a pinch, as it is equipped with a full scientific suite. It also contains full diplomatic facilities, allowing it to accommodate a wide range of species and races. Add to that the ability to house and transport 2000 infantry or two squadron of armor w/h accompanying personal (or a combination thereof), have enough storage space to keep them supplied in the field for 2 weeks of combat, and supply two squadrons of aerospace fighter for ground and space support (in additional to orbital ship-to-surface fire support), and you have a power mobile base able to take on systems on it's own, making the *Excalibur* a strike force unto itself.

DEVELOPMENT AND CONSTRUCTION HISTORY:

The namesake of class was laid down late in 2384 and was commissioned early in 2389. The second and third ships of the class (the Anduril and the Katana) were laid down in 2387 and 2389 respectively, with the Katana to be completed in 2394. By this time the *Griffons* will have been in commission 30+ years, and at that time it will be determined whether to mothball the *Griffons* and build more *Excaliburs*.

Number	Name	Laid Down	Commissioned	Status
NCC-77001	Excalibur	2384	2389	Active
NCC-77002	Anduril	2387	2392	Active
NCC-77003	Katana	2389	2394	Active

Brigadier General Joost Ueffing is currently on detached duty from the SFMC, serving Starfleet Tactical as an analyst. Joost also has published numerous articles and papers on foreign military powers for various publications and institutions, specializing in "naval" design analysis.







Current Specifications for the Excalibur Class Space Control Vessel:

Displacement: 4.700.000 mt Complement: Overall Length: 1227.5m

Overall Draft: 812m Overall Beam: 545m

Propulsion: One HAN-210 Mk II Quantum Slipstream drive unit

(System Contractor: Koeller Uti, Stuttgart, Earth)

Two LF-50 Mod 3 energized-energized antimatter warp drive

units

(System Contractor: Cochrane Warp Dynamics,

Minos al Rijil, Alpha Centauri VII)

Two FIG-6 subatomic unified energy impulse units

(System Contractor: Kloratis Drives, Tellar)

QARS-2 particle bean maneuvering thrusters

(System Contractor: Scarbak Propulsion Systems,

Earth)

"Tentis IV" pulsed laser reaction control system

(System Contractor: Orage Liek, Aksajak, Andor)

Warp 8.0 Standard Cruisina Speed Velocity:

Warp 9.5 Maxium Cruising Speed Warp 9.8 Maximum Attainable Velocity

Warp 9.999 Slipstream Velocity

Duration: 100 years, standard 200 Officers

Computers:

Phaser

Phaser:

Phaser:

Missiles:

Defense:

1100 Enlisted Crew

200 Passengers / Troops (Standard, 3000 Maximum)

1500 Total Crew (Standard)

Embarked Craft: variable, according to mission profile

HoloNav5.1 holographic projection/stellar cartography Navigation:

hardware/software package

(System Contractor: Tlixis Ramab RRB, Coridan III)

M16 Duotronic Vm dual microcore/LCARS 2.8 with E.V.E.

interface/RAV/ISHAK Mk3 navigation interface

Isolinear/biomnemonic gelpack nodes

1 Type XV Mod 1 Phaser Cannon

(System Contractor: HiBeam Energies, Earth)

14 Type XII Collimated Phaser Arrays

(System Contractor: HiBeam Energies, Earth)

20 Type IV-G Point Defense Phaser Mounts

(System Contractor: Mejii Defense Systems)

3 Mk 100 Transphasic Torpedo Launch Turrets (System Contractor: Loraxial, Andor)

FSS-M Multiphasic Primary Force Field

(System Contractor: Charlotte Shields, Earth)

Life Support: CETIS Weapon System with TACAR Fire Control