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Jackill's STARFLEET REFERENCE MANUAL

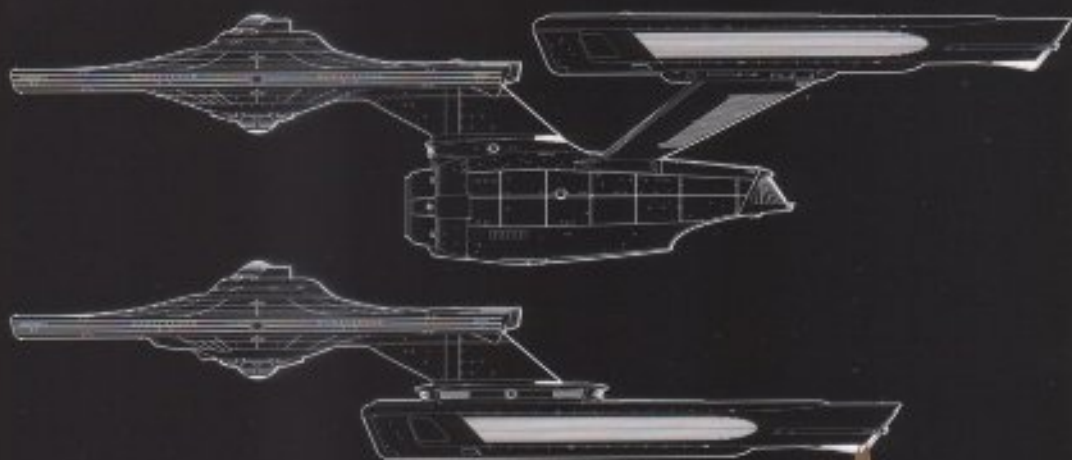
Ships of the Fleet Volume I



A-ERA

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A-ERA



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INTRODUCTION



Statistics

This is an overview of what some of the statistical information you will run across in this reference manual mean.

Acceleration Power: Is the value that a warp number is raised to to determine its speed as a multiple of light.

Acceleration Rate: Lists the various times it takes to accelerate the vessel through sublight speeds.

Acceleration Times: Lists the time it takes to accelerate from one warp value to the next. It should be noted that although an acceleration time may be given, the craft may not be designed to reach that speed without disintegration.

Beds: Lists the number of beds in the medical facility.

Bottom Profile: This profile is used for familiarization of the bottom view of the vessel.

Breakdown Rate: Is the amount of power in watts that will eventually break down the shields if applied constantly.

Brigs: Lists the number of detention cells.

Cargo Specification: Lists the number of standard cargo units and the cargo capacity of all the containers.

Category: Lists the general classification of the ship such as frigate, destroyer, freighter, etc.

Class Emblem: Each ship class is given a distinct logo design to represent the entire class.

Classification: Lists the exact designation of the craft, such as assault frigate or attack frigate.

Class: Is the name assigned to distinct vessel designs to distinguish one design from another. An example being one heavy cruiser from another heavy cruiser design.

Cloaking Devices: Lists if the vessel is equipped with a cloaking shield.

Computers: Lists the number and type of computers onboard.

Cross Section: This cut away view is used for general familiarization of the interior arrangement of the vessel.

Cross Section Area: Lists the optimum cross section area that the warp field has for each profile.

Destructive Speed: Is the speed at which the vessel will start to tear apart due to excessive stress.

Dimensions: Listed in meters for various parts of the ship from the primary hull to the propulsion systems.

Doctors: Lists the number of medical doctors that are normally onboard.

Dry Dock Area Usage: Gives the usable construction area inside the dry dock for its standard configuration.

Dry Dock Profiles: Gives top, port and front views of the dry dock with an Enterprise Class Heavy Cruiser used to give a reference of the facility's size.

Duration: Is given for both standard (years between upgrades) and maximum (maximum years until the craft must be rebuilt) missions.

ECM Index: Is given as general guide to the craft's ability to evade detection. The index norm is based on the Heavy Cruiser.

Emergency Condition: Is the additional number of people that the craft can carry in an emergency.

Emergency Speed: Lists the fastest that the craft can travel for very short periods of time. The longer the craft travels at this speed the more the engines and hull are damaged.

Field Height: Is the optimum warp field height listed in meters.

Field Length: Is the optimum warp field length listed in meters.

Field Width: Is the optimum warp field width listed in meters.

Front Profile: This profile is used for familiarization of the front view of the vessel.

General Information: Is used to deliver additional information about the vessel.

Holdoff Power: Is given in watts and determines the power level that will breach the shields.

Hz: (Hertz) Cycle per second.

Impulse Engine Output: Lists the engine output in watts.

Impulse Power Index: Is given as general guide to the vessel's overall impulse power. The index norm is based on the Heavy Cruiser.

Impulse Unit: Lists the impulse engine model number.

Laboratories: Lists the number of individual laboratories.

Max. Cruising: Lists the maximum speed that the impulse drive can propel the vessel.

Maximum Speed: Lists the fastest that the vessel can travel for sixty seconds before complete engine destruction.

Max. Safe Cruising: Lists the warp that the vessel can travel without substantial decrease in handling and safety. This speed is the fastest that the craft can travel without damaging the engines.

Medical Facilities: List the statistics of the medical facility.

Model: Is a Roman numeral that is distinct to each vessel category for each type/class.

Naval Construction Contract: Lists the number series assigned to that particular vessel series for construction and vessel registration.

Number Constructed: Lists how many vessels have been built.

Number in Service: Lists how many vessels are on active duty.

Number Lost: Lists how many vessels have been destroyed or decommissioned for various reasons.

Number Proposed: Lists the number of vessels that are to be built.

Nurses: Lists the number of nurses that are normally aboard.

Operating Rooms: Lists the number of fully equipped operating rooms.

Optimum Speed: Lists the warp that the vessel travel with the best fuel-distance ratio with minimal wear to the engines).

Output: Listed in watts for each shot for both burst and continuous fire, if available.

Passengers: Lists the number of passengers that the craft may carry.

Port Profile: This profile is used for familiarization of the port view of the vessel.

Phaser Power Index: Is given as general guide to the vessel's phaser power. The index norm is based on the Heavy Cruiser.

Photon Power Index: Is given as general guide to the vessel's

photon torpedo power. The index norm is based on the Heavy Cruiser.

Primary Reactor Output: List the output of the primary power source in watts.

Range: Is the weapons' effective range.

Rate of Fire: Lists the number of shots per minute that the weapon is able to fire.

Rear Profile: This profile is used for familiarization of the rear view of the vessel.

Refresh Rate: Is given in watts and shows how fast the shields will replenish themselves.

Replicators: Lists the vessel's ability to create materials and equipment.

Secondary Reactor Output: List the output of the secondary power source in watts.

Sensor Index Values: Is a general guide to the vessel's sensor abilities. The index norm is based on the Heavy Cruiser.

Shield Dimensions: Listed in meters for the normal operating dimensions of the shields.

Shield Index: Is given as general guide to the vessel's overall shield power. The index norm is based on the Heavy Cruiser.

Shield Rating: Lists the specification of the shields.

Ship Names: Is an alphabetical listing along with their naval construction contract numbers for the vessels that have been authorized for construction.

Shuttlecraft Bays: Listed below are the general dimensions for each category of shuttlecraft bay.

Small Bay: Landing area dimensions of 20-800 sq.m with a normal deck height of 2.4-6 meters. Vehicle storage area dimensions of 20-800 sq.m with a normal deck height of 2.4 meters.

Medium Bay: Landing area dimensions of 800-2000 sq.m with a normal deck height of 6-10 meters. Vehicle storage area dimensions of 800-2000 sq.m with a normal deck height of 2.4 meters.

Large Bay: Landing area dimensions of 2000-10000 sq.m with a normal deck height of 6-10 meters. Vehicle storage area dimensions of 2000-10000 sq.m with a normal deck height of 2.4-3.2 meters.

Super Bay: Landing area dimensions of 10000+ sq.m with a normal deck height of 6-12 meters. Vehicle storage area dimensions of 10000+ sq.m with a normal deck height of 2.4-4.8 meters.

Shuttlecraft Specifications: Lists the number of docking ports, shuttlecraft bays, number and type of shuttlecrafts and lifeboats.

Silhouettes: Is given for both recognition and to show the vessels' target area from various profiles. The smaller the area, the harder the ship is to target from that profile. The area values do not take into consideration the vessel's electronic counter measures.

Size Comparison: Gives port views for a comparison of the vessels' size in relation to other vessels.

Speed vs. Time: Is a graph that shows warp speed vs. time.

Std. Ship Complement: Is the standard number of crew members for the vessel. The listing is broken up into Officers, Crew and Troops.

Stock: Is given if the weapon has a finite supply of shots.

Telemetry: Lists the number of communication channels available for transmission of data and the power output of those transmissions listed in watts.

Top Profile: This profile is used for familiarization of the top view of the vessel.

Total Target Area: Is created by adding the top, port and front areas to give a generalization of the vessels overall target size.

Tractor Beam Specifications: Uses a tractor beam load calculator to calculate range vs. tonnage at each warp speed (See Tractor Beam on page SRM1 05:01:01:01 for information on how to use).

Tractor Beams: Is given for both the max. range and tow capacity.

Transporters: Lists the total number and type of units.

Type: Is a general term used to categorize the crafts abilities.

Class 1: Is used for starships that are designed with flexibility in their operating parameters.

Class 2: Is used for support ships that are designed for a specific mission and don't have much flexibility in their design.

Class 3: Is used for space station and habitable space facilities. The general rule is that the complex has recreational facilities and permanent residences.

Class 4: Is used for space facilities such as dry docks and refineries, generally not used as habitable environments.

Class 5: Is used for shuttlecraft and small support vessels.

Class 6: Is used for automated craft and facilities with little or no habitable environment provided for in the design.

Class 7: Is used to designate non-powered, space-going vessels such as cargo containers.

Class 8: Is used to designate items such as torpedoes, probes and buoys.

Vessel Power Index: Is given as general guide to the craft's overall weapon power. The index norm is based on the Heavy Cruiser.

Warp Engine Output: Lists the intermix chamber output in watts.

Warp Fields: Shows the field curvature around the vessel at optimum field configuration. The more slender the lateral field the less energy needed to propel the craft through space.

Warp Power Index: Is given as general guide to the craft's overall warp power. The index norm is based on the Heavy Cruiser.

Warp Speed/Power Graph: Is a two-sided graph used to show the power consumption based on the speed of the vessel.

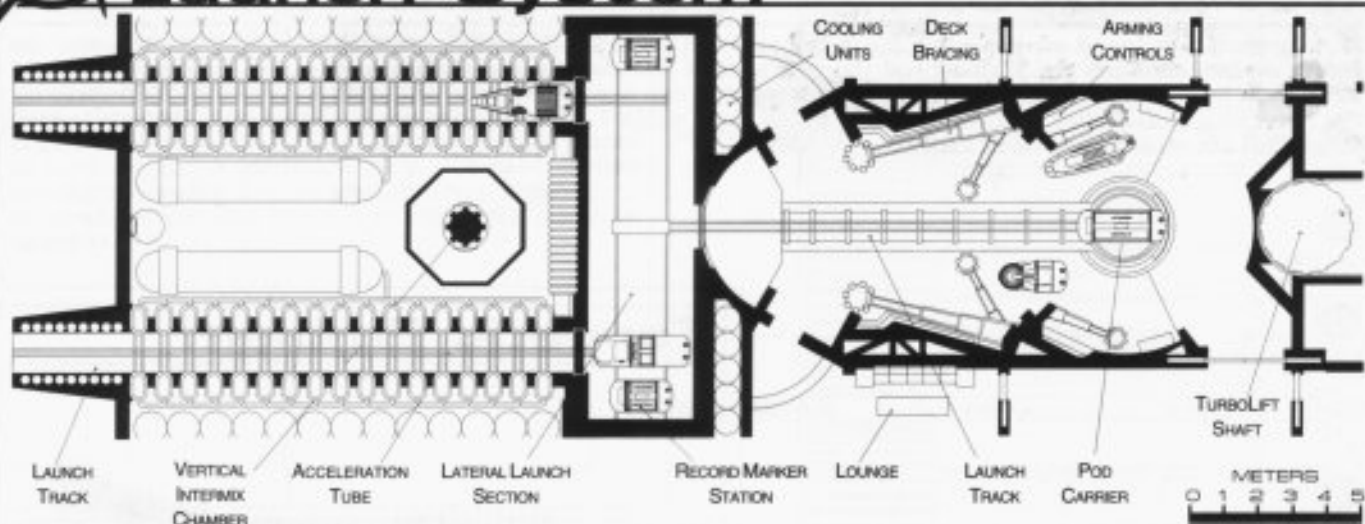
Warp Units: Lists the warp drive model number.

Weapon (Type) Total: Gives the number of barrels/bays and how many phasers/tubes per bank/bay. (A weapon location is given for the position of each weapon facing and can be used as a general guide of the weapon's angle of attack).



TORPEDOES/PROBES

Launch System



Size Comparison

Probes

Class I
Sensor Probe



Class II
Sensor Probe



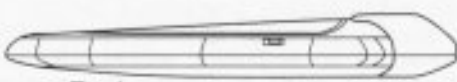
Class III
Planetary Probe



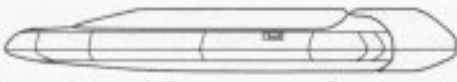
Class IV
Stellar Encounter Probe



Class V
Reconnaissance Probe



Class VI
Communication Relay / Emergency Beacon



Class VII
Remote Culture Study Probe



Class VIII
Medium Range Multimission Warp Probe

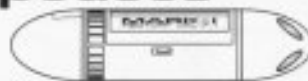


Class IX
Long Range Multimission Warp Probe

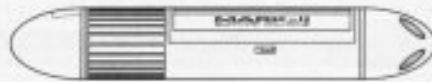


Torpedoes

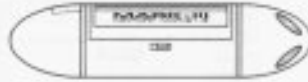
Mark I
Record Marker



Mark II
Surveillance Torpedo



Mark III
Space Mine



Mark IV
ECM Torpedo



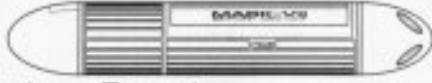
Mark V
Sensor Torpedo



Mark VI
Photon Torpedo



Mark VII
Vessel Simulator Torpedo



GENERAL INFORMATION

FEDERATION TORPEDOES/PROBES

TORPEDO



Torpedoes

All torpedoes are based on the same basic components. The front section contains the torpedo's sensors, the center section contains the payload and the rear section contains the micro-warp units used for propulsion. All torpedoes, in addition to carrying out specific missions, can act as low yield anti-matter torpedoes by detonating the remaining anti-matter used to drive the micro warp units. The torpedoes are launched from torpedo launch tubes that are standard on most Federation vessels.

Torpedo Emblem



For additional detail refer to Datasheet MVE-1

Mark I Record Marker Torpedo

General Information: The Record Marker Torpedo is the proverbial jettisonable black box of starships. When a vessel gets into a fatal situation, a record marker is jettisoned with all up to date records for an accurate account of events. A record marker is kept primed at all times to be jettisoned in the event that the vessel is unexpectedly destroyed. The marker can automatically transmit a distress beacon or lay in silence in enemy territory until a Federation craft transmits an activation signal. If an unauthorized attempt is made to access the marker's encrypted data it will self-destruct. Extra thick hull and advanced shielding allow the marker to survive in most instances even when the vessel has been completely destroyed.

Classification: Record Marker Torpedo

Class: MARK I

Dimensions:

Overall Dimensions (Meters)

Length: 1.95 m

Width: 0.98 m

Height: 0.47 m

Displacement (Metric Tons)

Standard: 98.7 kg

Performance:

Warp Units: 4 Micro Warp Units (LG-3)

Cruising Speed: Warp 3

Max. Speed: Warp 9.77 Burst

Range: 1.2×10^5 km

Duration: Years in Reserve Mode

Telemetry:

Channels: 4,852

Output: 80 MW

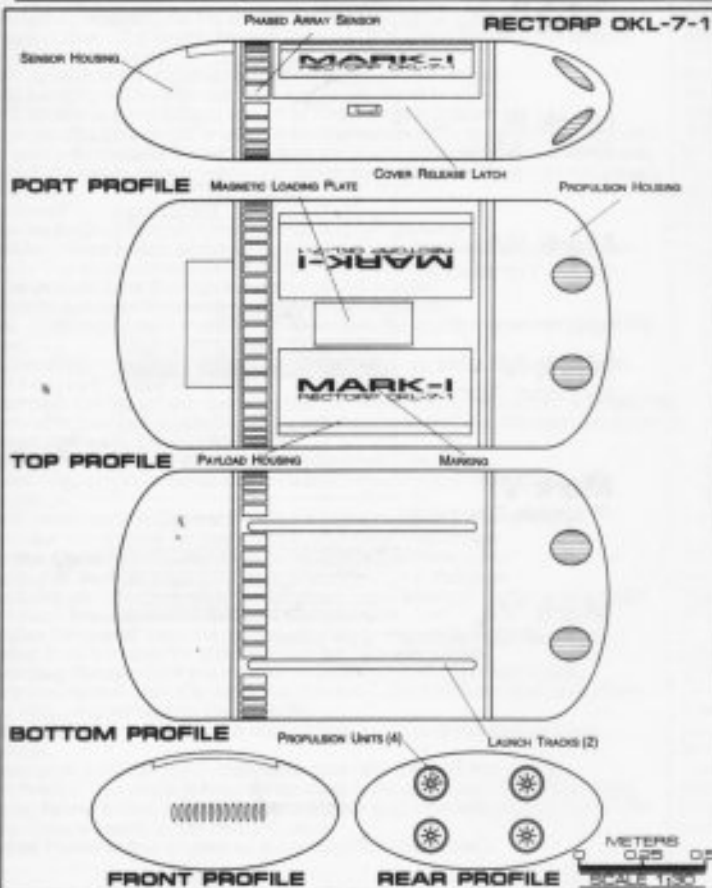
Sensors:

Standard Package

Additional Features:

Femto Second Data Collection

Multi-Frequency Beacon





Mark II Surveillance Torpedo

General Information: The Surveillance Torpedo is used when military surveillance is required. The pod is generally seeded in a target area or covertly placed in orbit around a planetary body. Located around the main housing are 44 phased array sensors. If required the pod can be used to attack the surveyed target.

Classification: Surveillance Torpedo

Class: MARK II

Dimensions:

Overall Dimensions (Meters)

Length: 2.75 m

Width: 0.88 m

Height: 0.47 m

Displacement (Metric Tons)

Standard: 142.5 kg

Performance:

Warp Units: 4 Micro Warp Units (LG-3)

Cruising Speed: Warp 3

Max. Speed: Warp 9.77 Burst

Range: 1.2×10^6 km

Duration: Years in Reserve Mode

Telemetry:

Channels: 4,852

Output: 80 MW

Sensors:

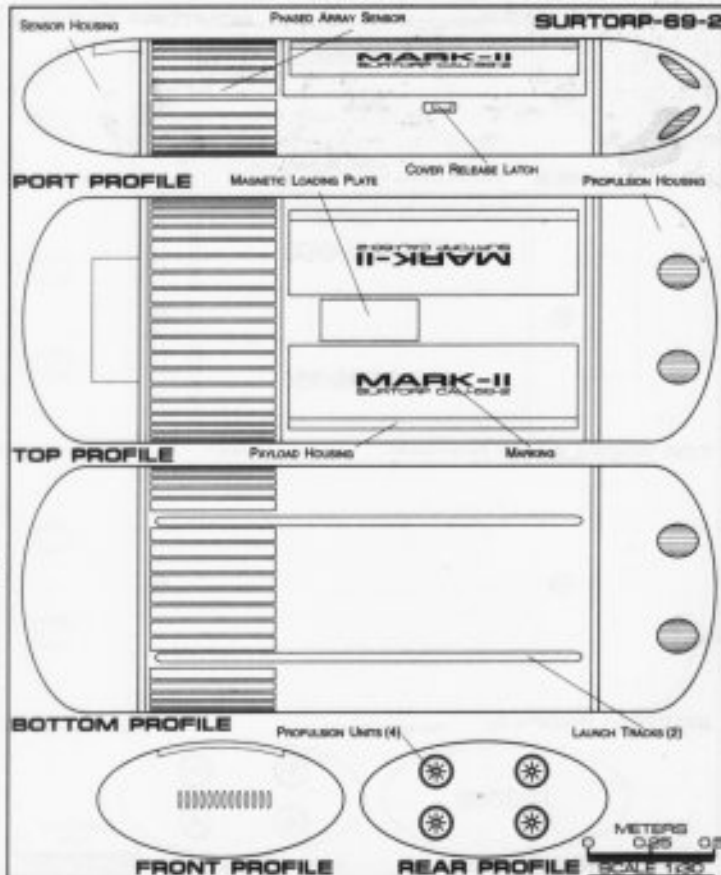
Standard Package

Additional Features:

Ferri Second Data Collection

Multi-Frequency Beacon

Phased Array Sensor



Mark III Space Mine

General Information: The Space Mine is a small anti-matter charged Photon Torpedo that can lay in waiting until an enemy craft enters its zone of protection. The mine can either be programmed to intercept an enemy craft or to follow enemy craft in an attempt to destroy additional enemy vessels that the craft may approach. The mine is equipped with sophisticated ship recognition software that allows the pod to evaluate each vessel that moves into its target area.

Classification: Space Mine

Class: MARK III

Dimensions:

Overall Dimensions (Meters)

Length: 1.95 m

Width: 0.88 m

Height: 0.47 m

Displacement (Metric Tons)

Standard: 110.2 kg

Performance:

Warp Units: 4 Micro Warp Units (LG-3)

Cruising Speed: Warp 3

Max. Speed: Warp 9.9 Burst

Range: 1.2×10^6 km

Duration: Years in Reserve Mode

Telemetry:

Channels: 200

Output: 12 MW

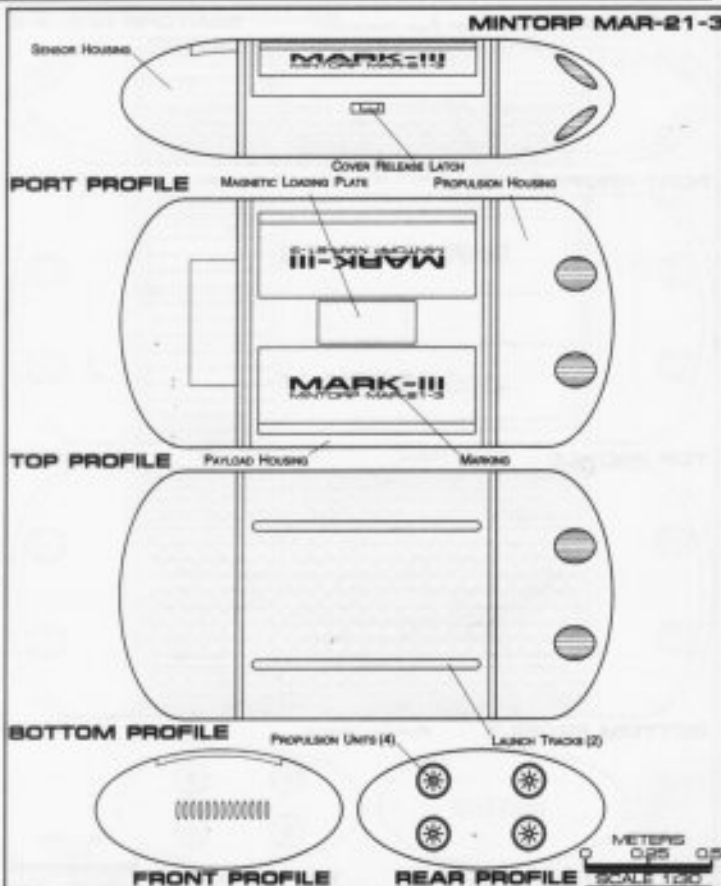
Sensors:

Standard Package

Additional Features:

Ship Analysis Software

Variable Payload 10-60 Megatons



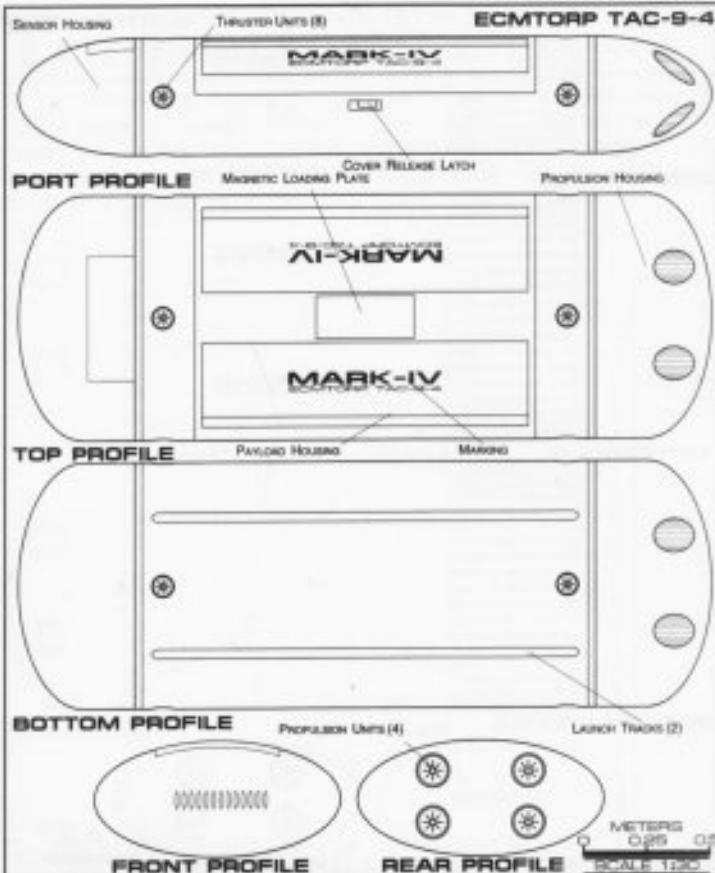
TORPEDO

VALAC CLASS



Mark IV ECM Torpedo

General Information: Electronic Counter-Measures Torpedoes are used to jam and mislead enemy sensors. ECM torpedoes can be use alone or in multiples allowing a vessel to saturate an area reducing the effectiveness of enemy sensors. The torpedo can also simulate a wide variety of naturally occurring background radiation to subtle obscure enemy sensors.



Classification: ECM Torpedo

Class: MARK IV

Dimensions:

Overall Dimensions (Meters)

Length: 2.75 m

Width: 0.98 m

Height: 0.47 m

Displacement (Metric Tons)

Standard: 139.8 kg

Performance:

Warp Units: 4 Micro Warp Units (LG-3)

Cruising Speed: Warp 3

Max. Speed: Warp 9.77 Burst

Range: 1.2×10^6 km

Duration: Years in Reserve Mode

Telemetry:

Channels: 4,852

Output: 80 MW

Sensors:

Standard Package

Additional Features:

Femto Second Data Collection

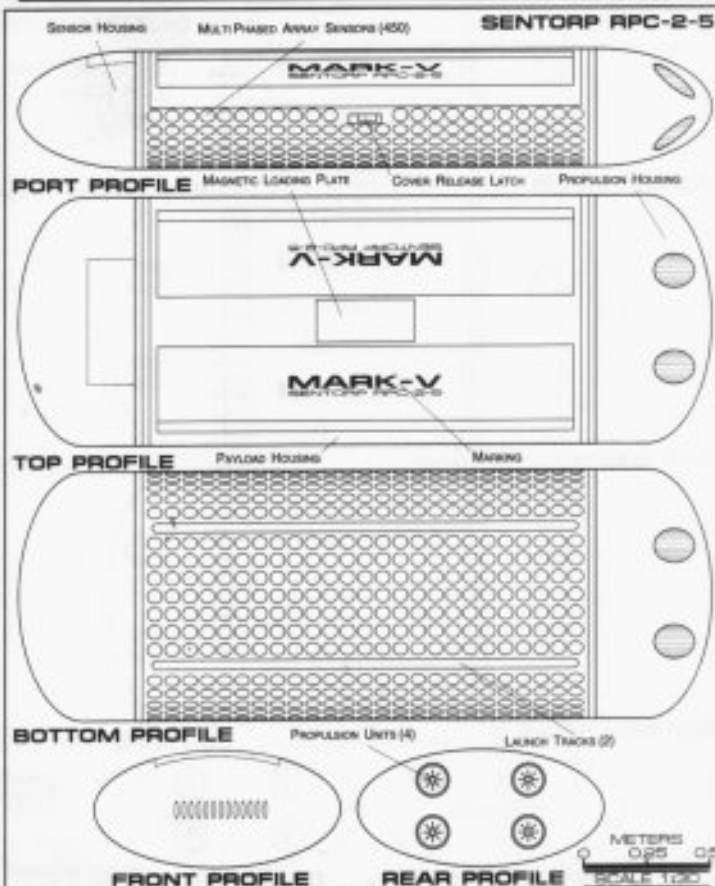
Multi-Frequency Beacon

Electronic Counter Measures

FEDERATION TORPEDO

Mark V Sensor Torpedo

General Information: The Sensor Torpedo is used for long range reconnaissance missions. Located along the lower part of the payload section are 425 phased array sensor discs which give the pod an exceptionally sensitive data acquisition system. In order to avoid detection many of the torpedoes sensors are designed for passive information gathering. If required, the torpedo can also be used to attack enemy targets at remote locations.



Classification: Sensor Torpedo

Class: MARK V

Dimensions:

Overall Dimensions (Meters)

Length: 2.75 m

Width: 0.98 m

Height: 0.47 m

Displacement (Metric Tons)

Standard: 142.5 kg

Performance:

Warp Units: 4 Micro Warp Units (LG-3)

Cruising Speed: Warp 3

Max. Speed: Warp 9.77 Burst

Range: 1.2×10^6 km

Duration: Years in Reserve Mode

Telemetry:

Channels: 4,852

Output: 80 MW

Sensors:

Standard Package

Additional Features:

Femto Second Data Collection

Multi-Frequency Beacon

Multi-Phased Array Sensor



Mark VI Photon Torpedo

General Information: The Photon Torpedo is one of the most common weapons carried aboard Federation vessels. The Photon torpedo contains anti-photons (antimatter) which have light-speed annihilation times which heavier antimatter particles such as anti-protons and anti-neutrons cannot achieve. This reduced reaction time, creates a faster, more intense shock wave for a very destructive effect.

Classification: Photon Torpedo
Class: MARK VI

Dimensions:
Overall Dimensions (Meters)

Length: 2.75 m
Width: 0.96 m
Height: 0.47 m

Displacement (Metric Tons)
Standard: 140.3 kg

Performance:

Warp Units: 4 Micro Warp Units (LG-3)
Cruising Speed: Δ 96 C
Max. Speed: Warp 9.8

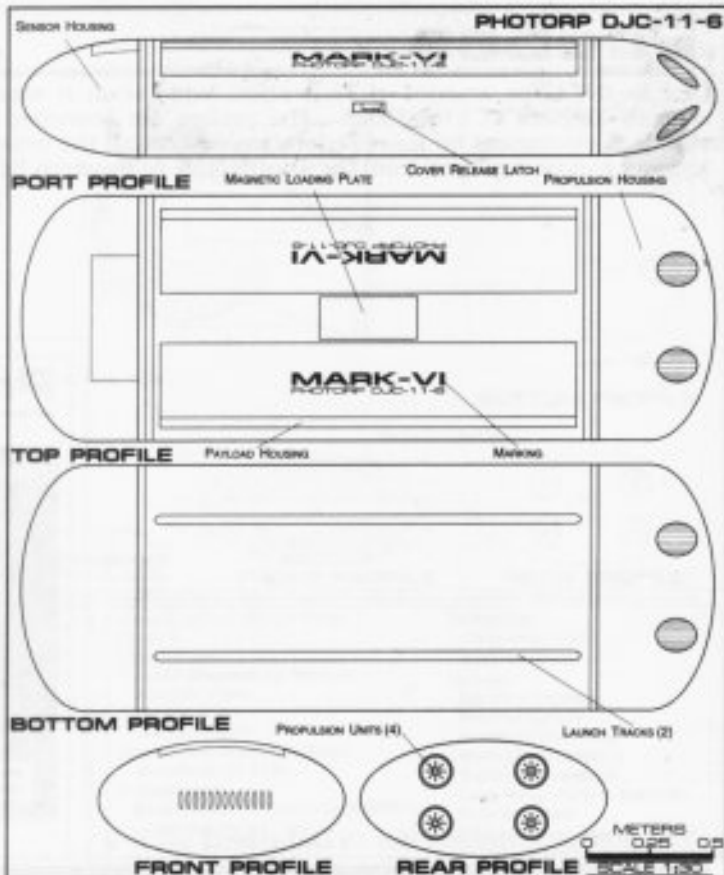
Range: 1.2×10^6 km
Duration: Years in Reserve Mode

Telemetry:

Channels: 300
Output: 20 MW

Sensors:

Standard Package
Additional Features:
Variable Payload 10-30 Megatons



Mark VII Vessel Simulator Torpedo

General Information: This torpedo can simulate various spacecraft with the exception of a visual output. The torpedoes can be used alone or in groups to simulate multiple vessels. They can also be used as decoys drawing attention away from the launch vessel.

Classification: Vessel Simulator Torpedo

Class: MARK VII

Dimensions:

Overall Dimensions (Meters)
Length: 2.75 m
Width: 0.96 m
Height: 0.47 m

Displacement (Metric Tons)
Standard: 138.2 kg

Performance:

Warp Units: 4 Micro Warp Units (LG-3)
Cruising Speed: Warp 3
Max. Speed: Warp 9.77 Burst

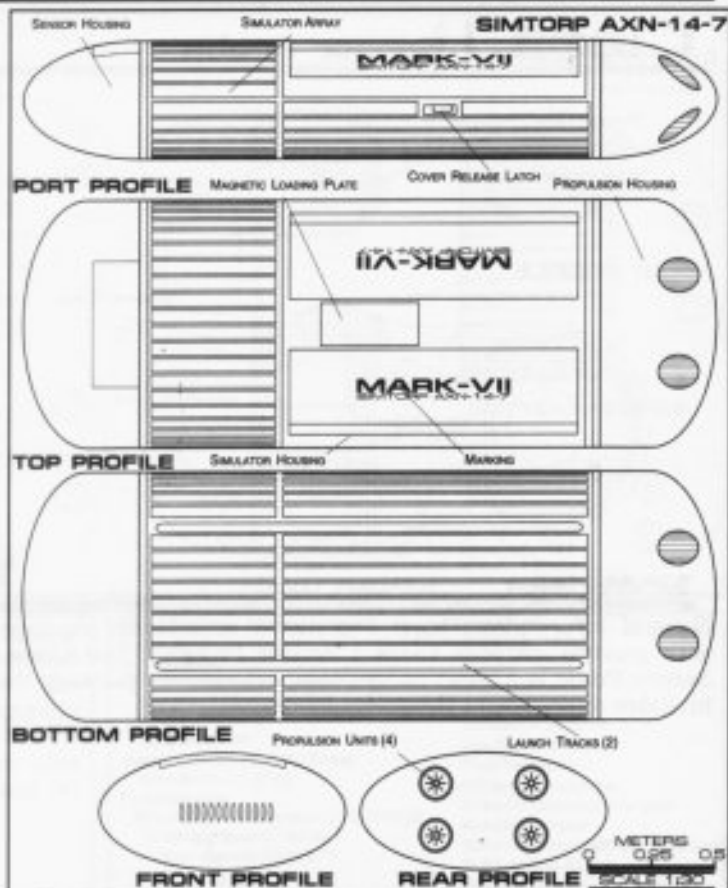
Range: 1.2×10^6 km
Duration: Years in Reserve Mode

Telemetry:

Channels: 4,852
Output: 80 MW

Sensors:

Standard Package
Additional Features:
Femto Second Data Collection
Multi-Frequency Beacon
Simulator Array
Vessel Simulation Software



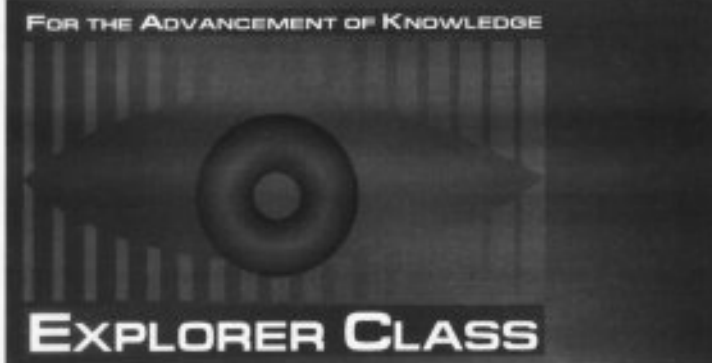
PROBES



Probes

Due to the large amount of Federation exploration it was found that the use of probes greatly enhances the sensory abilities of a starship. The probes are launched using the existing torpedo launch systems that are standard equipment on most Federation vessels. If the vessel is not equipped with torpedo launch equipment, the sensors can be deployed from the shuttlecraft or research bays at reduced speed and range.

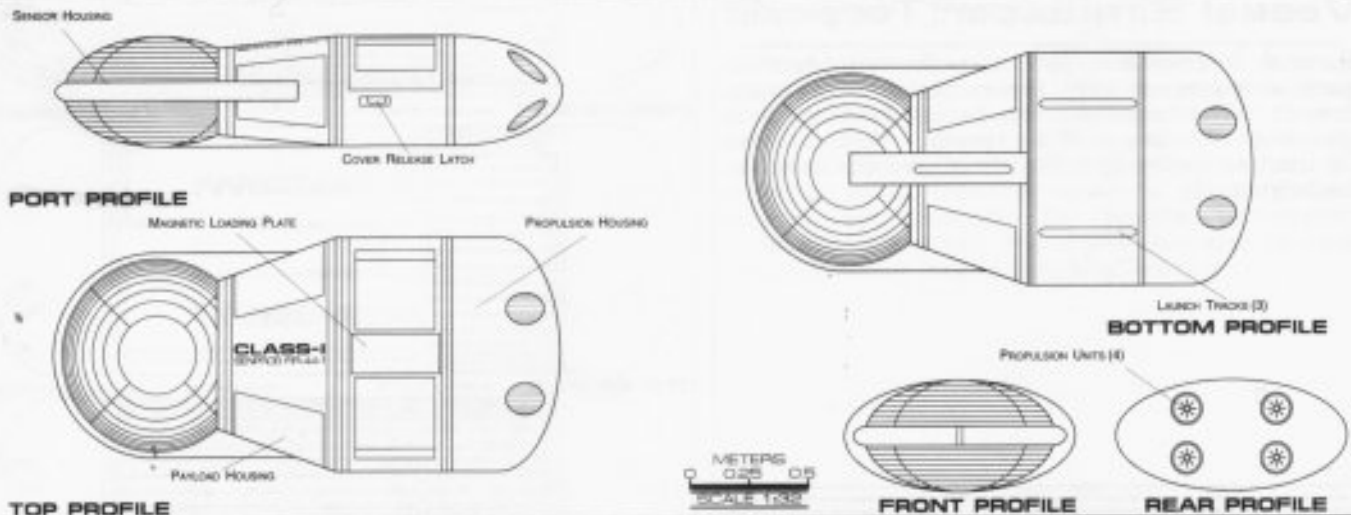
Probe Emblem



For additional detail refer to Datasheet MVE-2

Class I Sensor Probe

SENPROB FIR-44-1



General Information: Most Federation vessels are equipped with general purpose Class I Sensor Probes. The Class I Sensor Probe is a short range, compact sensory package that includes a diagnostic chemistry laboratory.

Classification: Sensor Probe

Class: I

Dimensions:

Overall Dimensions (Meters)

Length: 2.14m

Width: 0.98m

Height: 0.47m

Displacement (Metric Tons)

Standard: 108.74kg

Performance:

Warp Units: 4 Extension Units (STR-3)

Cruising Speed: Δ0.5 C

Max. Speed: Warp 9.77

Range: 2×10^5 km

Telemetry:

Channels: 12,500

Output: 12 MW

Sensors:

Standard Package

Electromagnetic

Subspace Chemistry

Interstellar Chemistry

Subspace Chemistry

Additional Features:

See Text

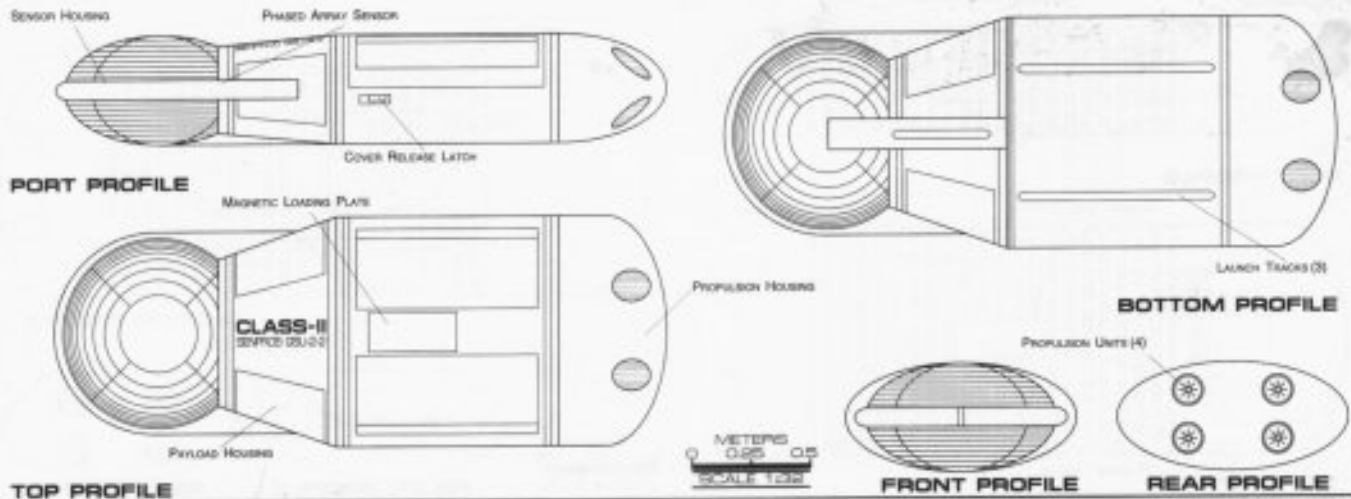


PROBES

EXPLORER CLASS

Class II Sensor Probe

SENPROB GSU-2-2



General Information: Most Federation vessels are equipped with some extended purpose Class II Sensor Probes. The Class II Probe is the standard, long range sensory package. Included with this standard package are additional subspace sensors and extensive diagnostic chemistry laboratories.

Classification: Sensor Probe

Class: II

Dimensions:

Overall Dimensions (Meters)

Length: 2.58m

Width: 0.98m

Height: 0.47m

Displacement (Metric Tons)

Standard: 131.35 kg

Performance:

Warp Units: 4 Extension Units (STR-3)

Cruising Speed: $\Delta 0.65 C$

Max. Speed: Warp 9.77

Range: 4×10^5 km

Telemetry:

Channels: 15,650

Output: 20 MW

Sensors:

Standard Package

Electromagnetic

Subspace Chemistry

Interstellar Chemistry

Subspace Chemistry

Long Range Particle Detectors

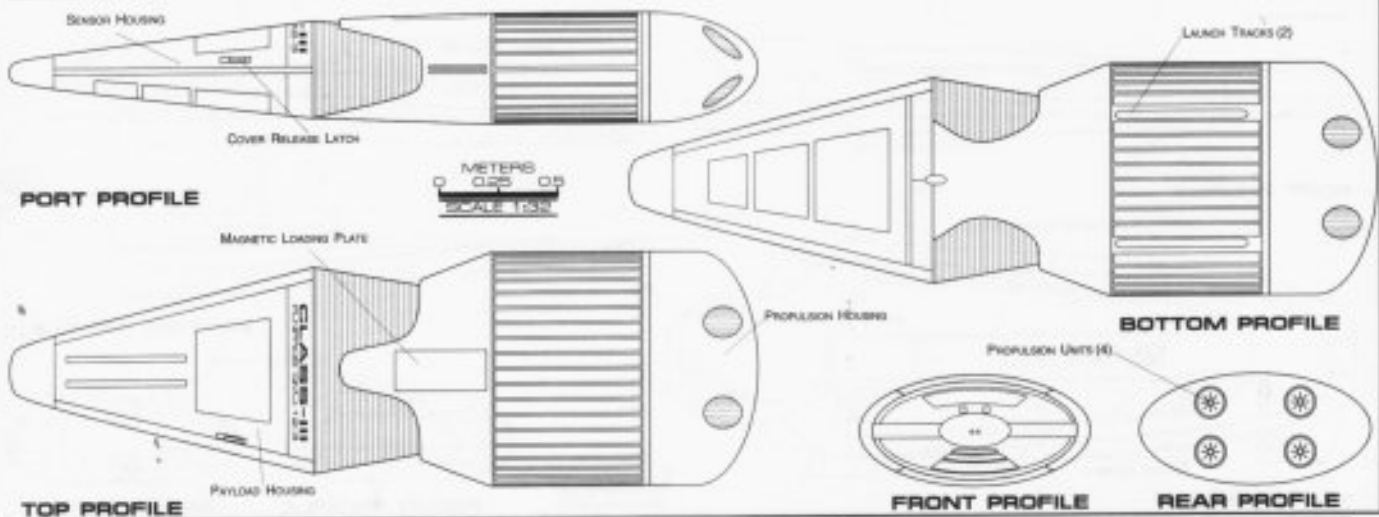
Field Detectors

Additional Features:

Imaging Systems

Class III Planetary Probe

PLNPROB GMJ-12-3



General Information: The Planetary Probe is designed for the exploration of interstellar bodies. The probe has a reinforced hull designed to hold off extreme atmospheric pressures. The pod is equipped with an extensive chemical diagnostic laboratories and has the ability to loiter around stellar bodies for extended periods of time. If needed the sensor can also soft-land on planetary bodies with a gravity of less than 30 g's and survive impacts up to 10 K/sec.

Classification: Planetary Probe

Class: III

Dimensions:

Overall Dimensions (Meters)

Length: 3.16m

Width: 0.98m

Height: 0.47m

Displacement (Metric Tons)

Standard: 160.87 kg

Performance:

Warp Units: 4 Extension Units (STR-3)

Cruising Speed: $\Delta 0.65 C$

Max. Speed: Warp 9.77

Range: 1.2×10^6 km

Telemetry:

Channels: 13,250

Output: 15 MW

Sensors:

Standard Package

Terrestrial Sensors

Gas Giant Sensors

Field Detectors

Additional Features:

Onboard Chemical Analyzer

Material Sampler

Reinforced Hull (450 bar Pressure)

Soft Landing Ability

Limited Terrestrial Loiter Time

FEDERATION PROBE

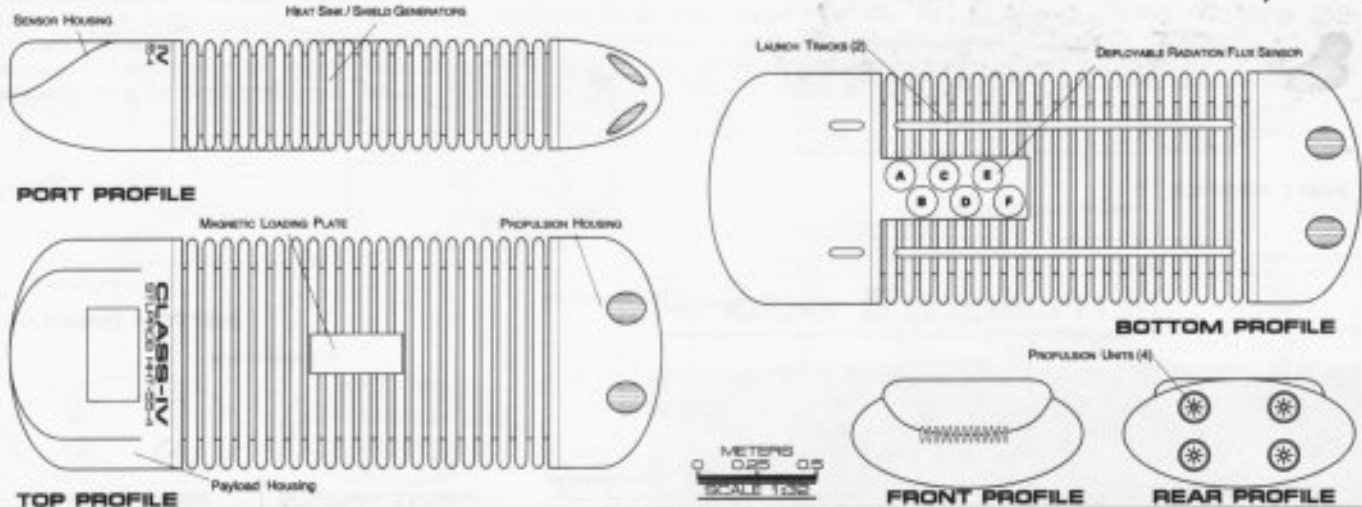
PROBES

EXPLORER CLASS



Class IV Stellar Encounter Probe

STLPROB HHT-2-2



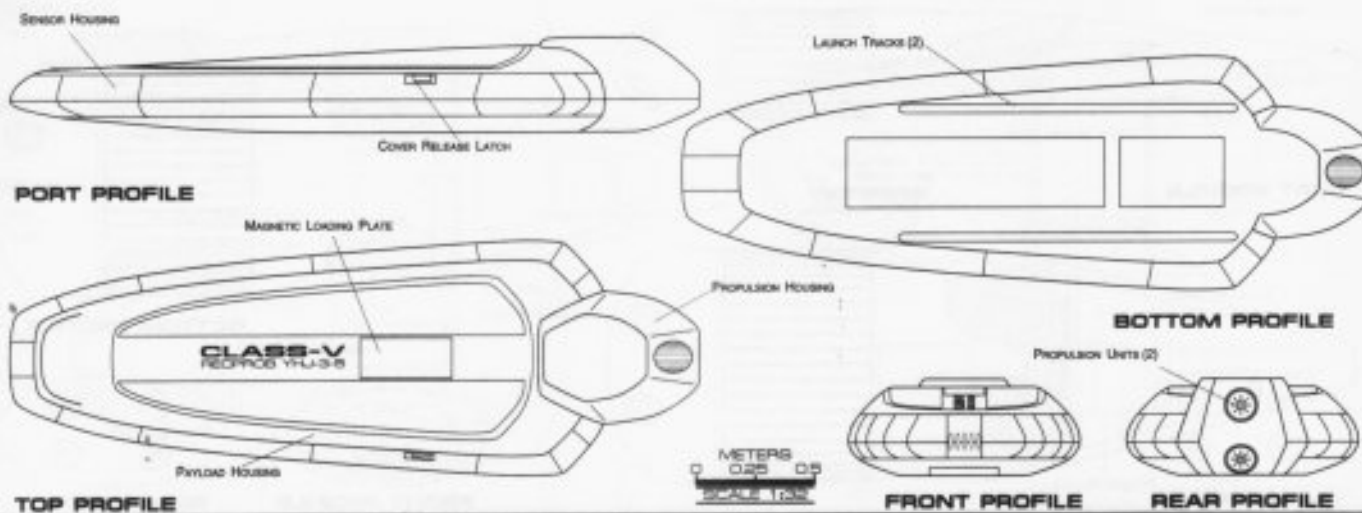
General Information: The Stellar Encounter Probe is used to study the evolution of stars and similar stellar bodies such as remnants, singularities and proto-stars. This probe is equipped with extensive shields to repel the immense plasma flux and tidal gravity forces that occur as the probe approaches a star. The probe is equipped with 6 deployable radiation flux sensors.

Classification: Stellar Probe
Class: IV
Dimensions:
 Overall Dimensions (Meters)
 Length: 2.75m
 Width: 0.95m
 Height: 0.47m
Displacement (Metric Tons)
 Standard: 143.8 kg
Performance:
 Warp Units: 4 Extension Units (STR-3)
 Cruising Speed: $\Delta 0.60 C$
 Max. Speed: Warp 9.77
 Range: 3.5×10^6 km

Telemetry:
 Channels: 9,790
 Output: 65 MW
Sensors:
 Standard Package
 Stellar Field Sensors
 Particle Detectors
 Stellar Atmosphere Detectors
Additional Features:
 6 Deployable Radiation Flux Sensors

Class V Reconnaissance Probe

RECPROB YHJ-3-5



General Information: The Reconnaissance Probe is a passive information gathering device. This probe differs from the other sensory probes in that it can loiter undetected for extended periods of time and compile large amounts of data.

Classification: Reconnaissance Probe
Class: V
Dimensions:
 Overall Dimensions (Meters)
 Length: 2.90m
 Width: 0.96m
 Height: 0.47m
Displacement (Metric Tons)
 Standard: 147.63kg
Performance:
 Warp Units: 2 Micro Warp Units (STR-3)
 Cruising Speed: Warp 3
 Max. Speed: Warp 3.5
 Range: 4.3×10^5 km

Telemetry:
 Channels: 6,320
 Output: 2.5 MW
Sensors:
 Standard Package
 Electromagnetic
 Subspace Chemistry
 Interstellar Chemistry
 Subspace Chemistry
Additional Features:
 Passive Sensors
 Low Observability
 Soft Landing Ability

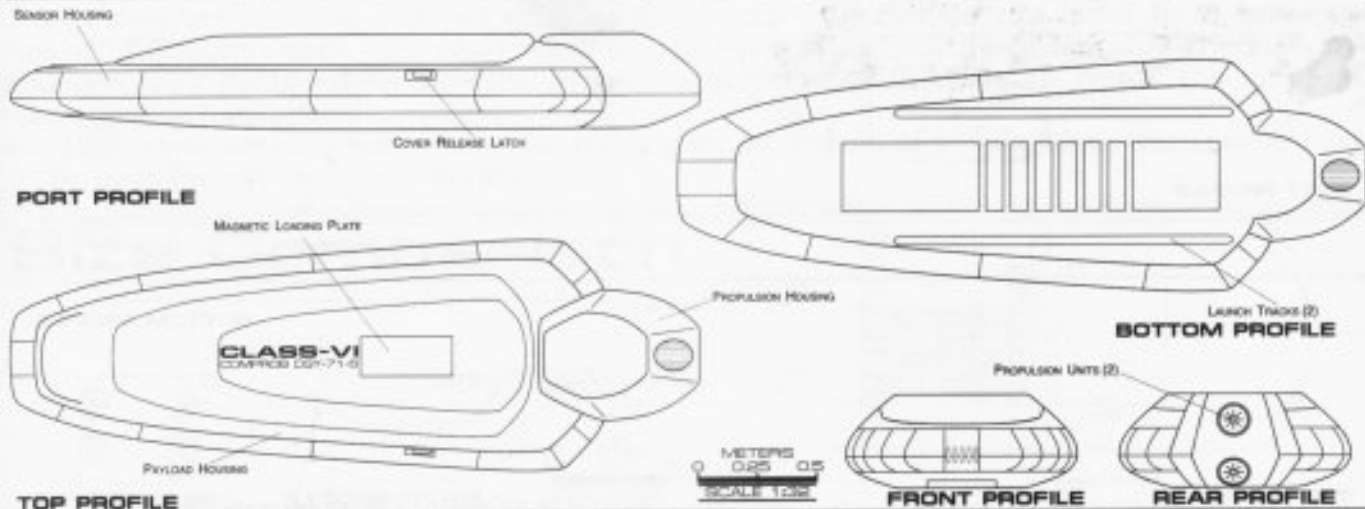
FEDERATION PROBE



PROBES

Class VI Comm Relay / Emergency Beacon COMPROB DGY-71-6

EXPLORER CLASS



General Information: During long range exploration and for long lines of communication the relay/emergency beacon is used to boost communication signal strength. This probe is also used to temporarily replace defective communication relay buoys. This probe can also be used to increase the transmission range of other classes of probes by creating a network of relay transmitters.

Classification: Relay Beacon

Class: VI

Dimensions:

Overall Dimensions (Meters)

Length: 2.90m

Width: 0.98m

Height: 0.47m

Displacement (Metric Tons)

Standard: 147.64 kg

Performance:

Warp Units: 2 Extension Units (STR-3)

Cruising Speed: 3.08 C

Max. Speed: Warp 9.77

Range: 4.3×10^{10} km

Telemetry:

Channels: 9,270

Output: 350 MW

Sensors:

Standard Package

Communication Frequency

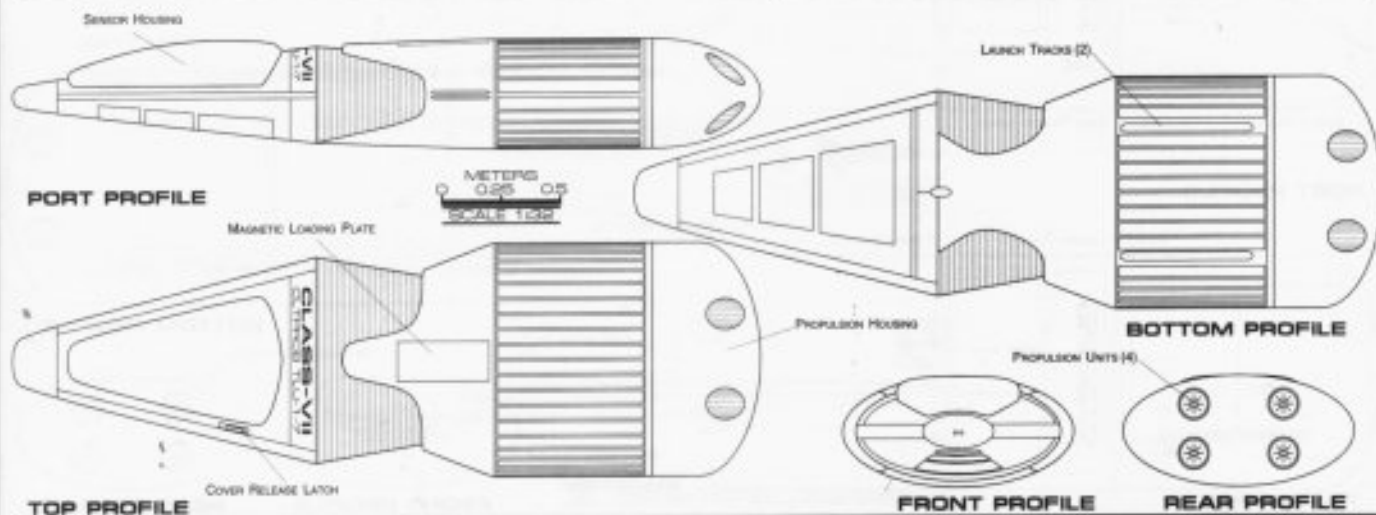
Additional Features:

High Gain Antenna

Extended Power Supply

Class VII Remote Culture Study Probe

CLTPROB TLU-1-7



General Information: The Remote Culture Study Probe, through the use of low observability technology, attempts to remain undetected while studying foreign cultures. In the event that the probe is discovered by an alien culture, a built in molecular self-destruct device breaks all mechanical and electrical parts down to basic elements so that nothing can be learned from the probe that could alter their cultural path.

Classification: Culture Probe

Class: VII

Dimensions:

Overall Dimensions (Meters)

Length: 3.16m

Width: 0.98m

Height: 0.47m

Displacement (Metric Tons)

Standard: 160.87 kg

Performance:

Warp Units: 4 Micro Warp Units (WR-3)

Cruising Speed: Warp 1.5

Max. Speed: Warp 1.7

Range: 1.2×10^6 km

Telemetry:

Channels: 1,050

Output: 0.5 MW

Sensors:

Standard Package

Terrestrial Sensors

Additional Features:

Passive Sensors

Low Observability

Soft Landing Ability

Extensive Loitering Ability

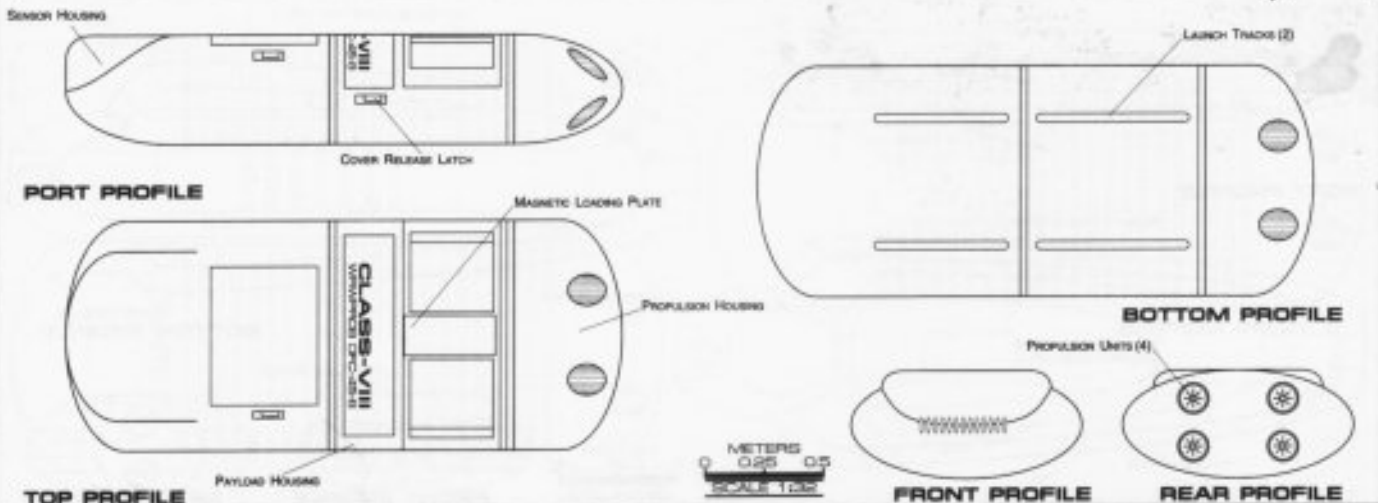
FEDERATION PROBE

PROBES

EXPLORER CLASS



Class VIII Medium Range Multimission Warp Probe MRWPROB DFC-2-2

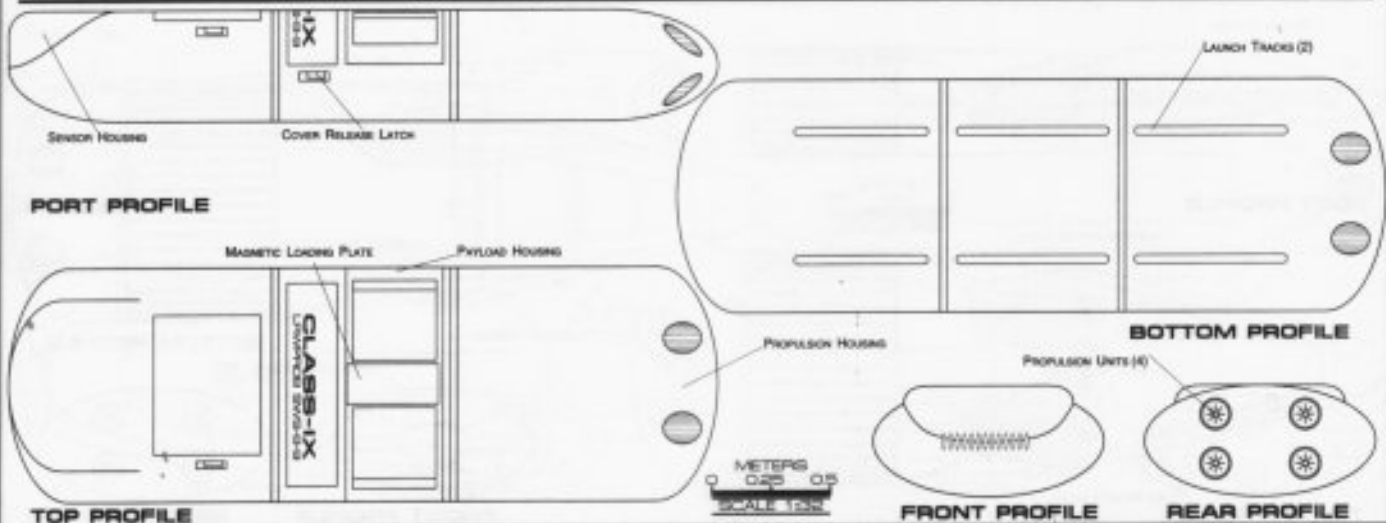


General Information: The Medium Range Warp Probe can carry various payloads at warp speeds. The payload section carries custom equipment, intelligence gathering devices or supplies to whatever location is needed. The probe also has an extended sensor housing containing general purpose sensors.

Classification: Medium Range Warp Probe **Telemetry:**
Class: VIII **Channels:** 4,550
Dimensions: **Output:** 300 MW
Overall Dimensions (Meters) **Sensors:**
Length: 2.35m **Standard Sensors**
Width: 0.98m **Various Modules**
Height: 0.47m **Additional Features:**
Displacement (Metric Tons) **Modular Sensor Ability**
Standard: 119.63 kg
Performance:
Warp Units: 4 Micro Warp Units (SUJ-3)
Cruising Speed: Warp 9.0
Max. Speed: Warp 9.77
Range: 1.2×10^2 Ly.

FEDERATION PROBE

Class IX Long Range Multimission Warp Probe LRWPROB SWS-8-8



General Information: The Long Range Warp Probe, due to its extended drive section, is able to carry various payloads at warp speeds over extremely long distances. The payload section carries custom equipment, intelligence gathering devices or supplies to whatever location is needed. The probe has an extended sensor housing to carry additional sensors.

Classification: Long Range Warp Probe **Telemetry:**
Class: IX **Channels:** 6,500
Dimensions: **Output:** 250 MW
Overall Dimensions (Meters) **Sensors:**
Length: 3.00m **Standard Sensors**
Width: 0.98m **Various Modules**
Height: 0.47m **Additional Features:**
Displacement (Metric Tons) **Modular Sensor Ability**
Standard: 152.73 kg
Performance:
Warp Units: 4 Micro Warp Units (SUJ-3)
Cruising Speed: Warp 9.0
Max. Speed: Warp 9.77
Range: 7.6×10^2 Ly.



SHUTTLECRAFT

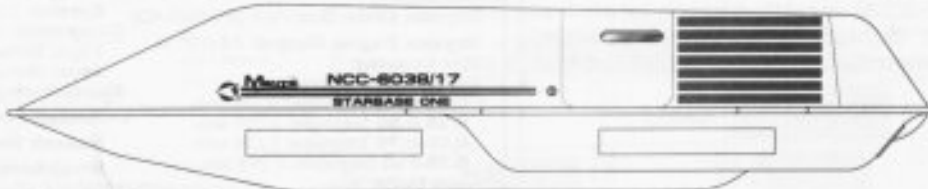
General Information

A large number of small support vehicles are required by Starfleet in order to carry out various missions such as construction, transportation and defense. Shuttlecraft are predominantly designed for specific mission requirements in order to create the smallest, most effective package.

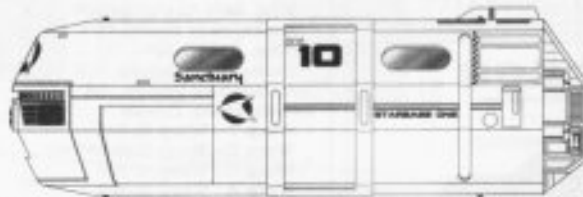
Shuttles are sometimes very useful for moving small groups of people when transporters can not be used for one reason or another.

GENERAL INFORMATION

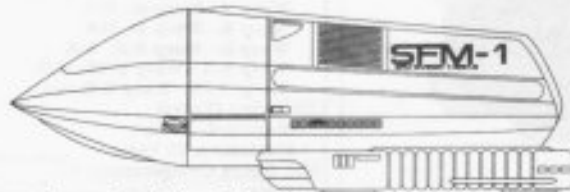
Size Comparison



Aquatic Shuttlecraft • Manta Class



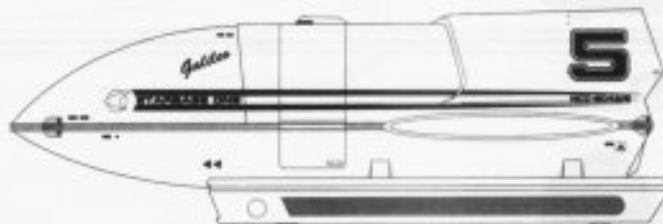
Escape Pod (40 Person) • Sanctuary Class



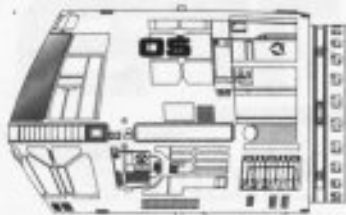
Light Assault Shuttle • Goblin Class



Light Fighter • Wasp Class



Standard Shuttlecraft • Galileo Class



Travel Pod • Viewer Class



Turbolift • Shifter Class

FEDERATION CRAFT

AQUATIC SHUTTLE



MANTA CLASS

General Information

Specific Role: The Aquatic Shuttlecraft is used for exploration and transportation on worlds with liquid surfaces. The shuttle handles both positive and negative pressures which allow it to function both in the vacuum of space and the extreme pressures associated with aquatic environments.

Physical Description: The hull is a long wedge shape and is equipped with three doors for personnel and equipment. Two are located on either side and the third is a surface hatch located on the top of the craft. Positioned on either side of the shuttle are (SMDN8/3-4) navigational sensor arrays. This shuttle is equipped with a unique (BP1/5-2C:A) aquatic-phaser located at the front of the shuttle. Sublight propulsion is provided by impulse drive units mounted either section of the hull.

For additional detail refer to Datasheet MVT-2

Statistics

Classification: Aquatic Shuttlecraft

Category: Shuttlecraft

Class: Manta

Type: Class 5

Model: MK-XDX

Naval Construction Contract: c00

Dimensions:

Overall Dimensions (Meters)

Length: 12.29m

Width: 5.62m

Height: 2.48m

Displacement (Metric Tons)

Light: 15.83mt

Standard: 16.96mt

Full Load: 18.93mt

Performance:

Impulse Units: Dual Pack (IP04G/4-AQ)

Impulse Engine Output: 7.8×10^8 W

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.137 sec.

0.25-0.50 Impulse: 0.206 sec.

0.50-0.75 Impulse: 0.275 sec.

0.75-Full Impulse: 0.343 sec.

Warp Units: N/A

Warp Engine Output: N/A

Optimum Speed: N/A

Max. Safe Cruising: N/A

Emergency Speed: N/A

Max. Speed: N/A

Destructive Speed: N/A

Acceleration Power: N/A

Acceleration Times:

Warp 1 - Warp 2: N/A

Warp 2 - Warp 3: N/A

Warp 3 - Warp 4: N/A

Warp 4 - Warp 5: N/A

Warp 5 - Warp 6: N/A

Warp 6 - Warp 7: N/A

Warp 7 - Warp 8: N/A

Warp 8 - Warp 9: N/A

Warp 9 - Warp 9.5: N/A

Warp 9.5 - Warp 9.75: N/A

Warp 9.75 - Warp 9.9: N/A

Duration (Years)

Standard: 5 Years

Maximum: 20 Years

Std. Ships Complement: 8

Crew: 1

Passengers: 7

Emergency condition: +6

Transporters Total: 0

1 Person: 0

2 Person: 0

6 Person: 0

Small Cargo: 0

Medium Cargo: 0

Tractor Beams: 1

Tow Capacity: 5.10×10^2 mt

Max Range: 7.10×10^1 km

Cargo Specification:

Standard Cargo Units: N/A

Cargo Capacity: N/A

Shuttlecraft Specifications:

Docking Ports: 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 1.254

Stellar Survey: 0.942

Short Range: 1.111

Long Range: 1.025

Navigation: 0.967

Special: 1.123

Computers: 2

Type: Norray-Magne 16xd

Type: Norray-Magne 12z

Shield Rating:

Holdoff Power: 4.72×10^8 W

Refresh Rate: 1.34×10^8 W

Breakdown Rate: 1.61×10^8 W

Shield Dimensions (Meters)

Length: 11.69m

Width: 5.83m

Height: 2.98m

Weapons:

Weapon Placement:

Beam (Phasers) Total: 1 Mounts

Output: 5.0×10^8 W / 2.5×10^9 W

Range: 2.5×10^3 km

Rate of Fire: 20 ppm / Cont.

Forward Banks: 1

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (HeavyPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Missiles (Photon) Total: N/A

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Craft Silhouettes

Total Target Area 83.81 m²

Average Target Area 27.94 m²



Top Silhouette

Area 51.32 m²



Port Silhouette

Area 24.05 m²



Front Silhouette

Area 8.44 m²

Class Emblem

Mantra

Aquatic Shuttle

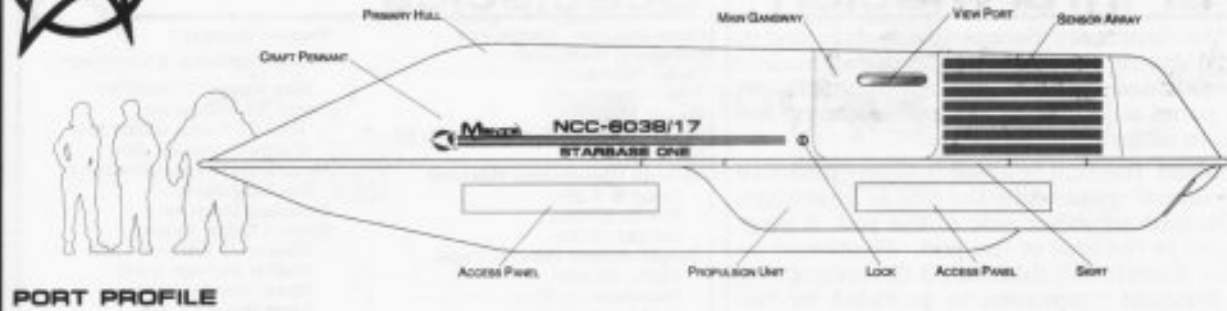
FEDERATION CRAFT



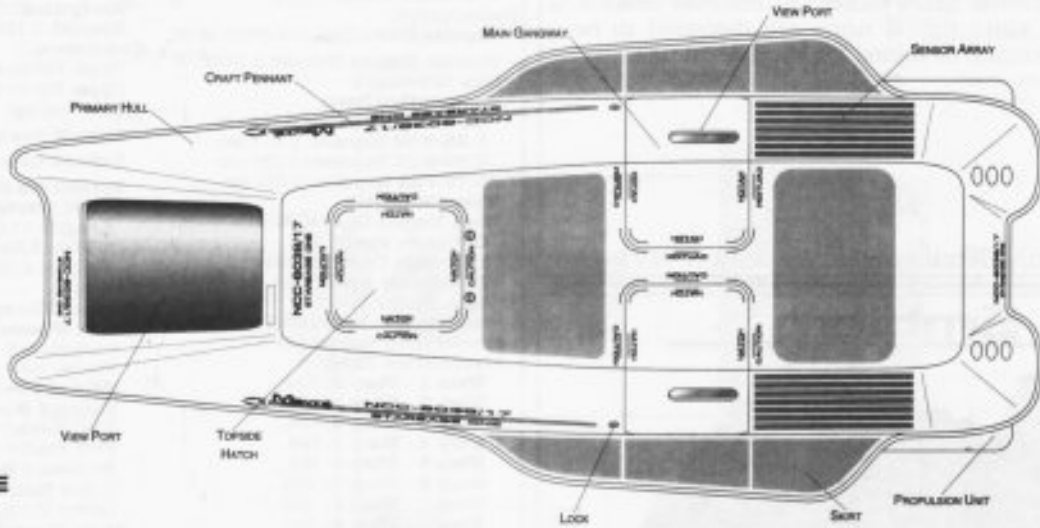
AQUATIC SHUTTLE

MANTA CLASS

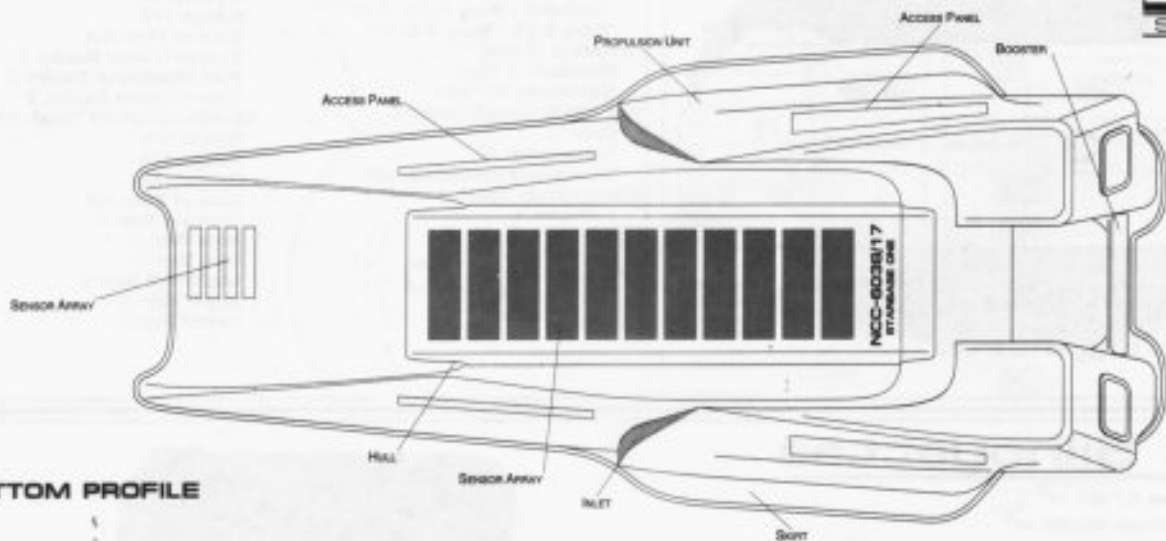
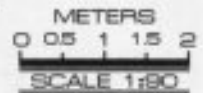
FEDERATION CRAFT



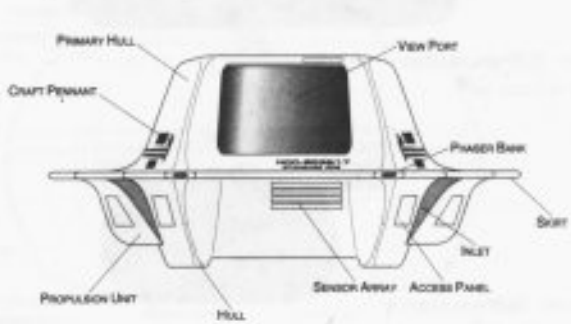
PORT PROFILE



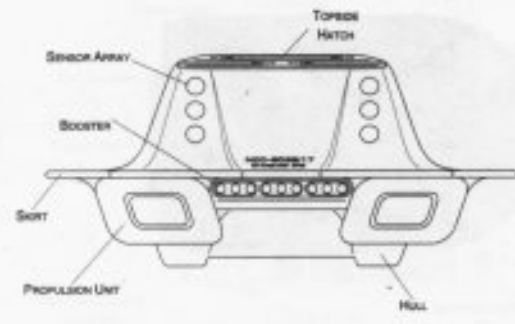
TOP PROFILE



BOTTOM PROFILE



FRONT PROFILE



REAR PROFILE

ESCAPE POD (40 Person)



General Information

Specific Role: The Sanctuary Escape Pod is designed to remove personnel during an emergency evacuation. The Escape Pod is located behind explosive panels on Starships. This panel is jettisoned during an emergency allowing the pod to make a quick egress.

Physical Description: The hull is a squat shape designed to maximize the use of space while the pod is in storage. Two doors are located on either side of the pod. A large viewport is located to the rear of the pod. Positioned on either side of the shuttle are (SMDN7/3-0) navigational sensor arrays. Sublight propulsion is provided by two compact main thrust units located at the rear section of the craft. The main thrust units are designed to be a high efficiency engine designed for short term use.

For additional detail refer to Datasheet MVP-1

Statistics

Classification: Escape Pod
Category: Shuttlecraft
Class: Sanctuary
Type: Class 5
Model: MKP-II
Naval Construction Contract: EP-40
Dimensions:
Overall Dimensions (Meters)
Length: 9.58m
Width: 5.70m
Height: 3.15m
Displacement (Metric Tons)
Light: 20.09mt
Standard: 21.53mt
Full Load: 24.03mt

Performance:
Impulse Units: Dual Unit (IP21E/2-IP)
Impulse Engine Output: 8.2×10^8 W
Max Cruising: C
Acceleration Rate:
0.00-0.25 Impulse: 0.142 sec.
0.25-0.50 Impulse: 0.211 sec.
0.50-0.75 Impulse: 0.285 sec.
0.75-Full Impulse: 0.340 sec.

Warp Units: N/A
Warp Engine Output: N/A
Optimum Speed: N/A
Max. Safe Cruising: N/A
Emergency Speed: N/A
Max. Speed: N/A
Destructive Speed: N/A
Acceleration Power: N/A
Acceleration Times:
Warp 1 - Warp 2: N/A
Warp 2 - Warp 3: N/A
Warp 3 - Warp 4: N/A
Warp 4 - Warp 5: N/A
Warp 5 - Warp 6: N/A
Warp 6 - Warp 7: N/A
Warp 7 - Warp 8: N/A
Warp 8 - Warp 9: N/A
Warp 9 - Warp 9.5: N/A
Warp 9.5 - Warp 9.75: N/A
Warp 9.75 - Warp 9.9: N/A

Duration (Years)
Standard: 5 Years
Maximum: 20 Years
Std. Ships Complement: 1
Crew: 1
Passengers: 40
Emergency condition: +20
Transporters Total: 1
1 Person: 0
2 Person: 1
6 Person: 0
Small Cargo: 0
Medium Cargo: 0

Tractor Beams: 1
Tow Capacity: 5.10×10^2 mt
Max Range: 7.10×10^1 km
Cargo Specification:
HEAVY Cargo Units: N/A
Cargo Capacity: N/A

Shuttlecraft Specifications:
Docking Ports: 0
Cloaking Devices: 0
Sensor Index Values:
Planetary Survey: 1.254
Stellar Survey: 0.942
Short Range: 1.111
Long Range: 1.025
Navigation: 0.987
Special: 1.123

Computers: 2
Type: Norray-Magne 14:1
Type: Norray-Magne 11:x
Shield Rating:

Holdoff Power: 3.72×10^8 W
Refresh Rate: 1.34×10^7 W
Breakdown Rate: 1.61×10^7 W
Shield Dimensions (Meters)
Length: 11.50m
Width: 6.20m
Height: 4.00m

Weapons:
Weapon Placement:
Beam (Phasers) Total: 0
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward Banks: 0
Rear Banks: 0
Port Banks: 0
Starboard Banks: 0
Upper Banks: 0
Lower Banks: 0
Beam (HeavyPhasers) Total: 0
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Missiles (Photon) Total: N/A
Stock: N/A
Range: N/A
Output: N/A
Rate of Fire: N/A
Forward Bay: 0
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

Class Emblem



Sanctuary Class
40 PERSON ESCAPE POD

Craft Silhouettes

Total Target Area 57.94 m²
Average Target Area 20.38 m²



Top Silhouette
Area 31.13 m²



Port Silhouette
Area 17.00 m²

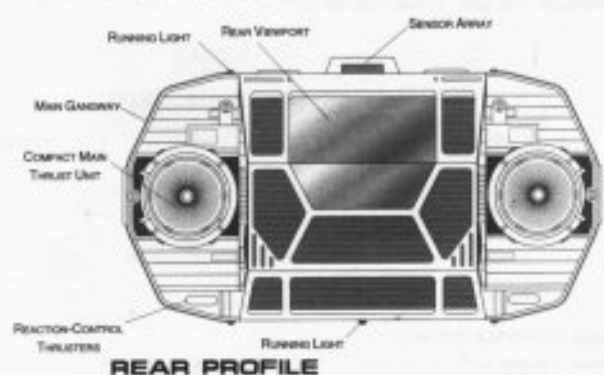
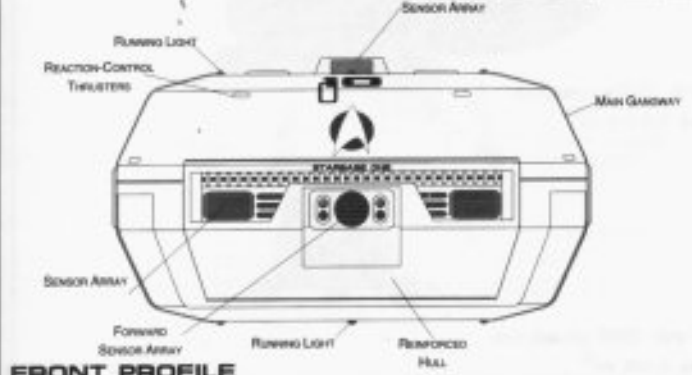
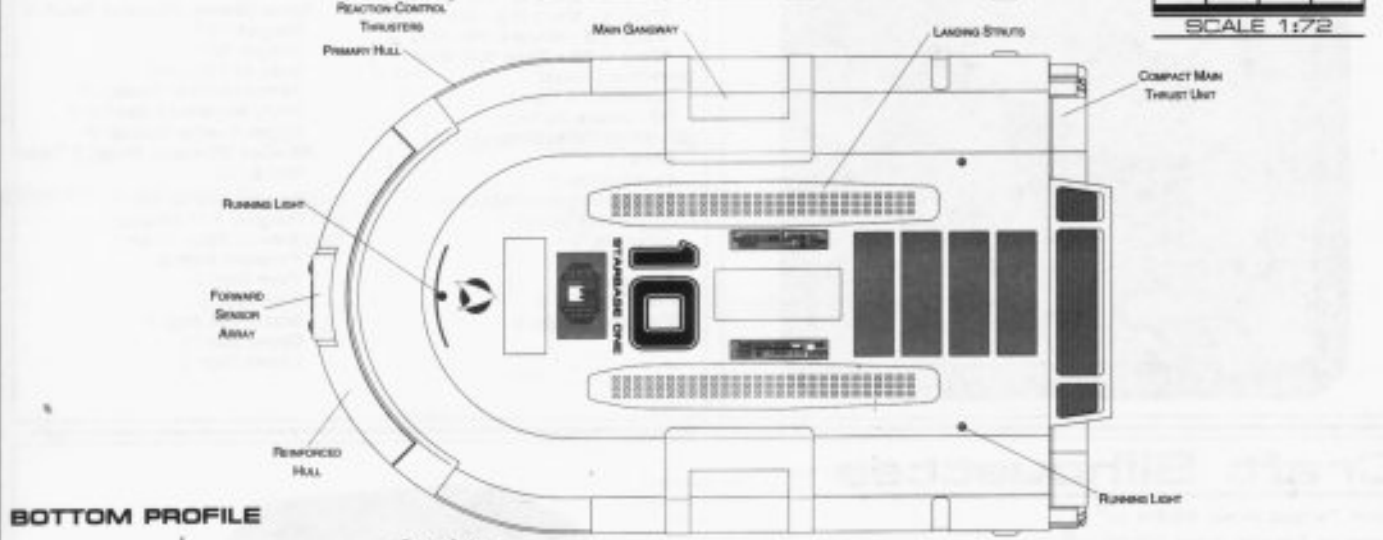
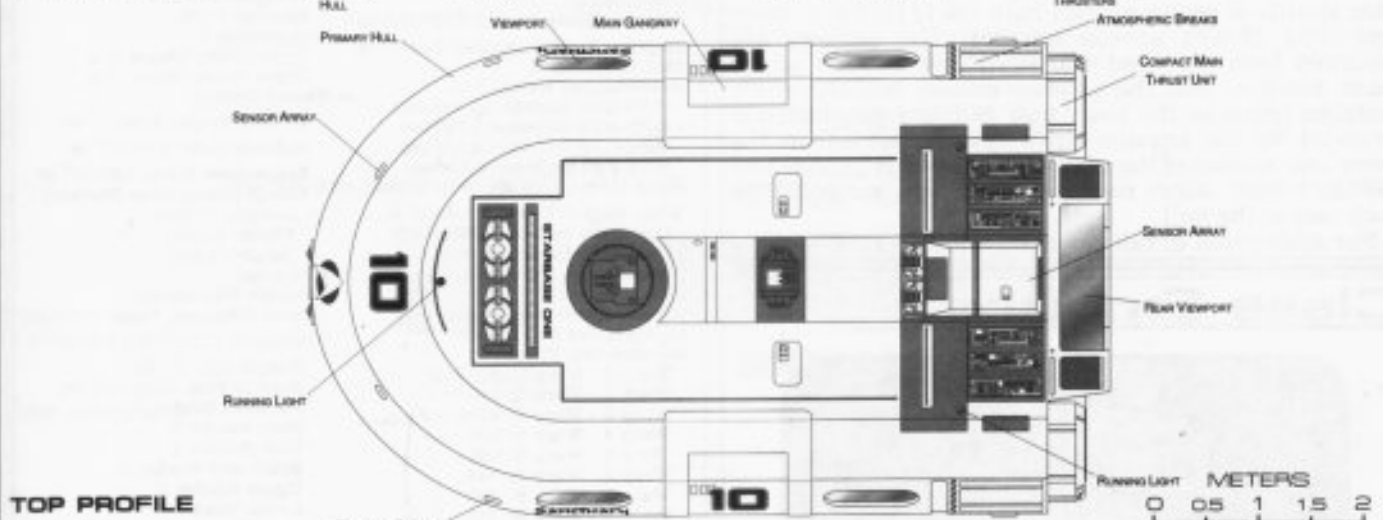
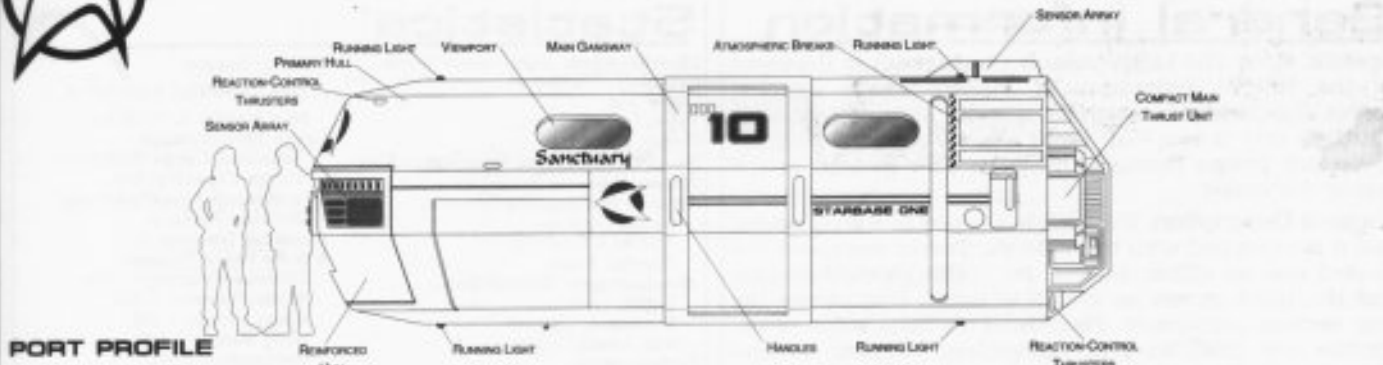


Front Silhouette
Area 9.81 m²



ESCAPE POD (40 Person)

SANCTUARY CLASS



FEDERATION CRAFT

LIGHT ASSAULT SHUTTLE



GOBLIN CLASS

General Information

Specific Role: The Light Assault Shuttlecraft is deployed by the United Federation of Planets Peace Keeping Forces (Starfleet Marines) for a swift assault role. The Shuttle's role is two fold: point assault and the delivery of assault troops through the large door located to the rear of the vessel.

Physical Description: The hull is shaped in a long wedge and it is equipped with three doors. Two of the doors are located one on either side of the crafts forward section and the third serves as a sliding hatch that opens the rear section completely. Positioned on both sides of the shuttle are (SMDN3/2-2) navigational sensor arrays. This shuttle is equipped with both (BP1/12-5S) phasers and (PB1/12-8W) photon missiles. The phasers are mounted both port and starboard just forward of the main hatches and the photon missile launchers are installed below on the lower hull. Sublight propulsion is provided by the impulse drive system located on the lower rear section of the craft. Warp power is provided by (SW09/1-5BX) micro-nacelles which are mounted on each side of the hull.

For additional detail refer to Datasheet MVM-1

Statistics

Classification: Light Assault Shuttle
Category: Shuttlecraft
Class: Imp
Type: Class 5
Model: MK-XIV
Naval Construction Contract: AS-H1

Dimensions:

Overall Dimensions (Meters)
Length: 9.36m
Width: 4.12m
Height: 3.08m

Displacement (Metric Tons)
Light: 14.24mt
Standard: 15.25mt
Full Load: 17.03mt

Performance:
Impulse Units: Dual Unit (ID25E/4-UP)

Impulse Engine Output: 6.5×10^8 W
Max Cruising: C

Acceleration Rate:
 0.00-0.25 Impulse: 0.135 sec.
 0.25-0.50 Impulse: 0.198 sec.
 0.50-0.75 Impulse: 0.257 sec.
 0.75-Full Impulse: 0.314 sec.

Warp Units: 2 Nacelle Units (SW09/1-5BX)

Warp Engine Output: 1.2×10^7 W

Optimum Speed: Warp 2
Max. Safe Cruising: Warp 3
Emergency Speed: Warp 4
Max. Speed: Warp 4.2
Destructive Speed: Warp 4.5

Acceleration Power: 3.0

Acceleration Times:

Warp 1 - Warp 2: 2.218 sec.
 Warp 2 - Warp 3: 2.695 sec.
 Warp 3 - Warp 4: 5.216 sec.
 Warp 4 - Warp 5: N/A
 Warp 5 - Warp 6: N/A
 Warp 6 - Warp 7: N/A
 Warp 7 - Warp 8: N/A
 Warp 8 - Warp 9: N/A
 Warp 9 - Warp 9.5: N/A
 Warp 9.5 - Warp 9.75: N/A
 Warp 9.75 - Warp 9.9: N/A

Duration (Years)

Standard: 5 Years
Maximum: 20 Years

Std. Ships Complement: 1

Crew: 1
Passengers: 6
Emergency condition: +4

Transporters Total: 1

1 Person: 0
 2 Person: 1
 6 Person: 0
 Small Cargo: 0
 Medium Cargo: 0

Tractor Beams: 1

Tow Capacity: 4.00×10^2 mt

Max Range: 6.13×10^1 km

Cargo Specification:

Standard Cargo Units: N/A

Cargo Capacity: N/A

Shuttlecraft Specifications:

Docking Ports: 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 1.354

Stellar Survey: 0.942

Short Range: 1.158

Long Range: 1.100

Navigation: 0.975

Special: 1.145

Computers: 2

Type: Norray-Magne 15:u

Type: Norray-Magne 13:g

Shield Rating:

Holdoff Power: 4.38×10^8 W

Refresh Rate: 1.18×10^8 W

Breakdown Rate: 1.35×10^8 W

Shield Dimensions (Meters)

Length: 11.89m

Width: 4.825m

Height: 3.48m

Weapons:

Weapon Placement:

Beam (Phasers) Total: 2 Mounts

Output: 5.0×10^8 W / 2.5×10^9 W

Range: 2.5×10^3 km

Rate of Fire: 20 ppm / Cont.

Forward Banks: 1

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (Heavy Phasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Missiles (Photon) Total: 2 Tubes

Stock: 30

Range: 2.0×10^5 km

Output: 5-11 Megatons

Rate of Fire: 10 spm

Forward Bay: 2

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Class Emblem



Craft Silhouettes

Total Target Area: 38.84 m^2
Average Target Area: 12.78 m^2



Top Silhouette
Area: 19.86 m^2



Port Silhouette
Area: 13.49 m^2



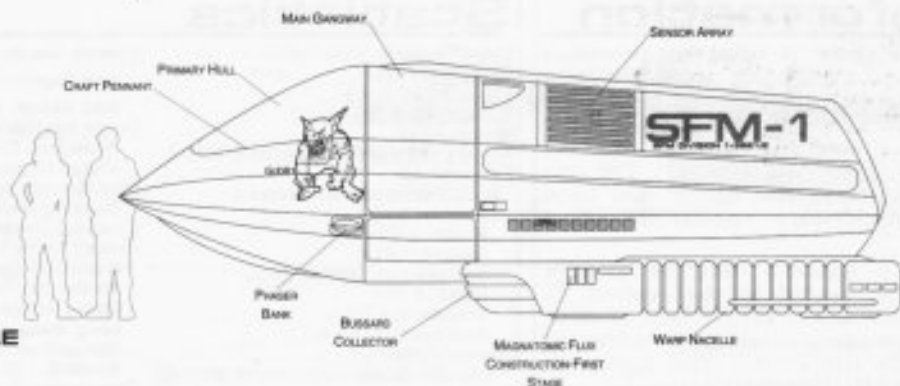
Front Silhouette
Area: 4.89 m^2

FEDERATION CRAFT

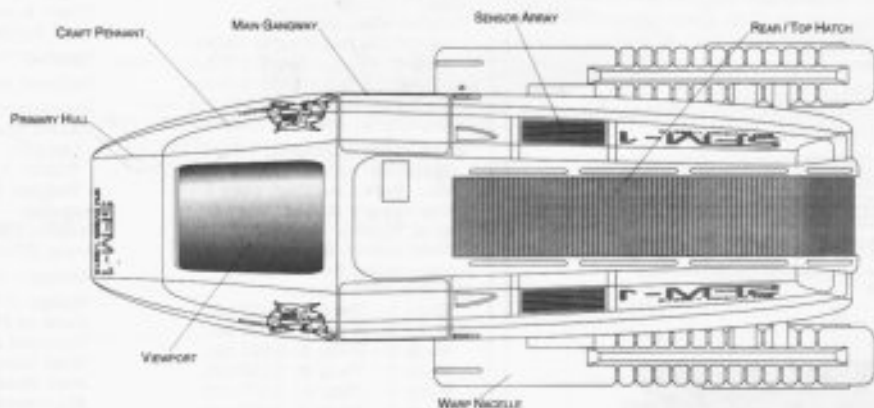


LIGHT ASSAULT SHUTTLE

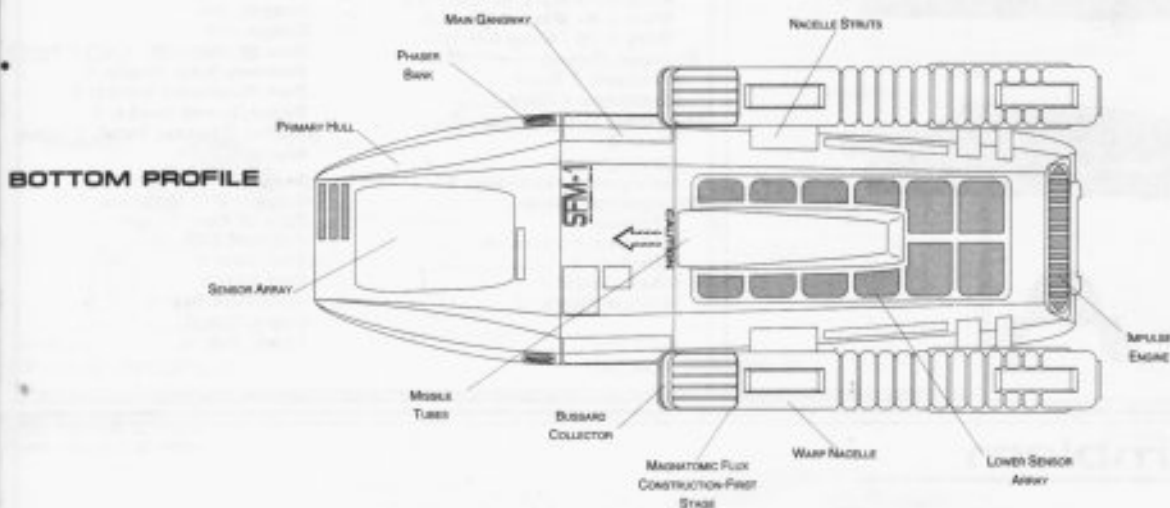
GOBLIN CLASS



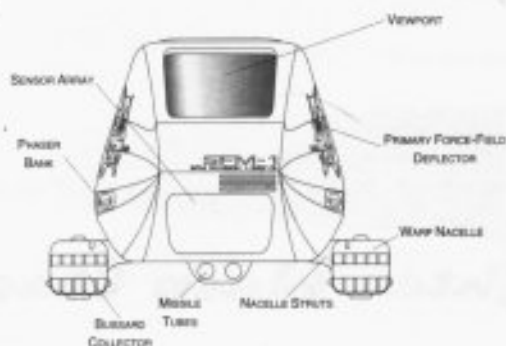
PORT PROFILE



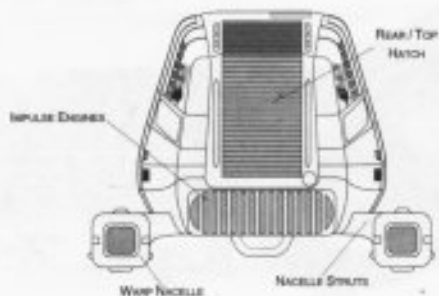
TOP PROFILE



BOTTOM PROFILE



FRONT PROFILE



REAR PROFILE

FEDERATION CRAFT

LIGHT FIGHTER



WASP CLASS

General Information

Specific Role: The Light Fighter is used for precision assault, zone protection and in-fighting around capitol ships. The fighter is designed to be crewed by a pilot and gunner/navigator, but can operated by the pilot alone should the gunner/navigator become incapacitated or be unavailable at launch. For the purposes of starship engagement the fighter has been designed to operate at high warp speeds for short periods of time.

Physical Description: The fighter's hull is slender teardrop shape. The crew, seated in the cockpit, is covered by a full canopy with a 210 degree field of view. A (SMDN12/2-4) navigational sensor assembly is located under the front portion of the craft. The fighter is equipped with (BP1/12-5F) phaser cannons and (PB1/12-8A) photon missiles. Phasers are mounted on either side of the hull just below the canopy. Photon missile launchers are located on the top-front of each nacelle. Sub-light propulsion is provided by the impulse drive unit located in the rear section of the craft. Warp power is provided by (SW12/1-2AP) micro-nacelles which are mounted on each side of the hull.

For additional detail refer to Datasheet MVF-1

Craft Silhouettes

Total Target Area 30.02 m²
Average Target Area 10.00 m²



Top Silhouette
Area 17.15 m²



Port Silhouette
Area 10.74 m²



Front Silhouette
Area 2.13 m²

Statistics

Classification: Light Fighter
Category: Fighter
Class: Wasp
Type: Class 5
Model: MK-V
Naval Construction Contract: 6000-3

Dimensions:

Overall Dimensions (Meters)
Length: 8.75m
Width: 2.53m
Height: 1.83m
Displacement (Metric Tons)
Light: 9.13mt
Standard: 9.79mt
Full Load: 10.92mt

Performance:

Impulse Units: Dual Pack (IP18E/4-IU)
Impulse Engine Output: 7.8x10⁸ W
Max Cruising: C
Acceleration Rate:
0.00-0.25 Impulse: 0.137 sec.
0.25-0.50 Impulse: 0.206 sec.
0.50-0.75 Impulse: 0.275 sec.
0.75-Full Impulse: 0.343 sec.
Warp Units: 2 Nacelle Units (SW12/1-2AP)

Warp Engine Output: 1.2x10¹² W
Optimum Speed: Warp 6
Max. Safe Cruising: Warp 7
Emergency Speed: Warp 8
Max. Speed: Warp 8.2
Destructive Speed: Warp 9.5
Acceleration Power: 3.0

Acceleration Times:

Warp 1 - Warp 2: 0.137 sec.
Warp 2 - Warp 3: 0.220 sec.
Warp 3 - Warp 4: 0.831 sec.
Warp 4 - Warp 5: 1.194 sec.
Warp 5 - Warp 6: 1.277 sec.
Warp 6 - Warp 7: 1.380 sec.
Warp 7 - Warp 8: 1.771 sec.
Warp 8 - Warp 9: 2.533 sec.
Warp 9 - Warp 9.5: 5.629 sec.
Warp 9.5 - Warp 9.75: N/A
Warp 9.75 - Warp 9.9: N/A

Duration (Years)

Standard: 2 Years
Maximum: 4 Years

Std. Ships Complement: 2

Crew: 2
Passengers: 0
Emergency condition: +0

Transporters Total: 0

1 Person: 0
2 Person: 0
6 Person: 0
Small Cargo: 0
Medium Cargo: 0

Tractor Beams: 1

Tow Capacity: 2.10x10²mt
Max Range: 3.10x10¹km

Cargo Specification:
Standard Cargo Units: N/A
Cargo Capacity: N/A

Shuttlecraft Specifications:

Docking Ports: 0
Cloaking Devices: 0
Sensor Index Values:
Planetary Survey: 1.254
Stellar Survey: 0.942
Short Range: 1.111
Long Range: 1.025
Navigation: 0.987
Special: 1.954

Computers: 2

Type: Norray-Magne 20:s
Type: Norray-Magne 11:1

Shield Rating:

Holdoff Power: 4.72x10⁸ W
Refresh Rate: 1.34x10⁸ W
Breakdown Rate: 1.61x10⁸ W

Shield Dimensions (Meters)

Length: 10.5m
Width: 3.04m
Height: 2.20m

Weapons:

Weapon Placement:

Beam (Phasers) Total: 2 Mounts
Output: 5.0x10¹⁰ W / 2.5x10⁹ W

Range: 2.5x 10⁵ km
Rate of Fire: 20 ppm / Cont.

Forward Banks: 2

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (HeavyPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Missiles (Photon) Total: 2 Tubes

Stock: 50

Range: 2.0x 10⁵ km

Output: 5-11 Megatons

Rate of Fire: 10 spm

Forward Bay: 2

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

Class Emblem



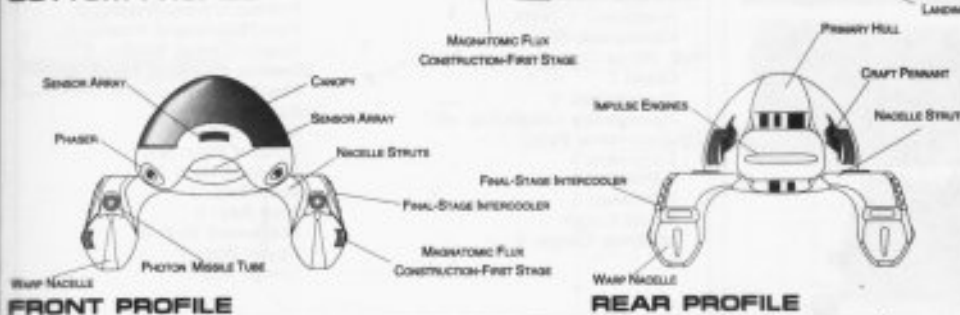
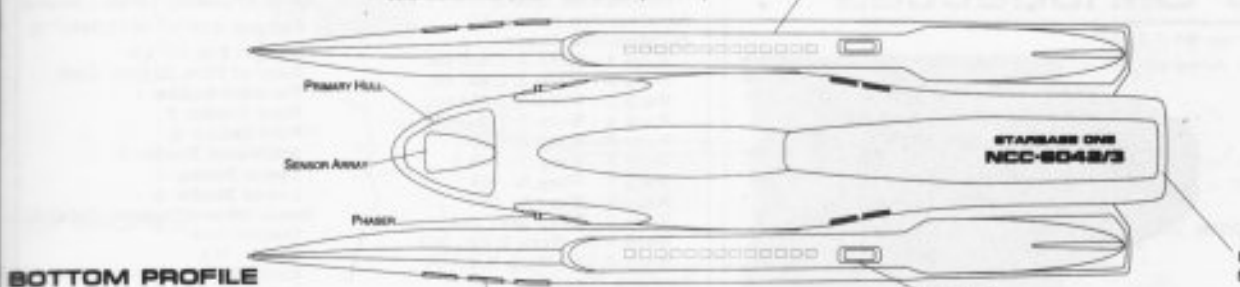
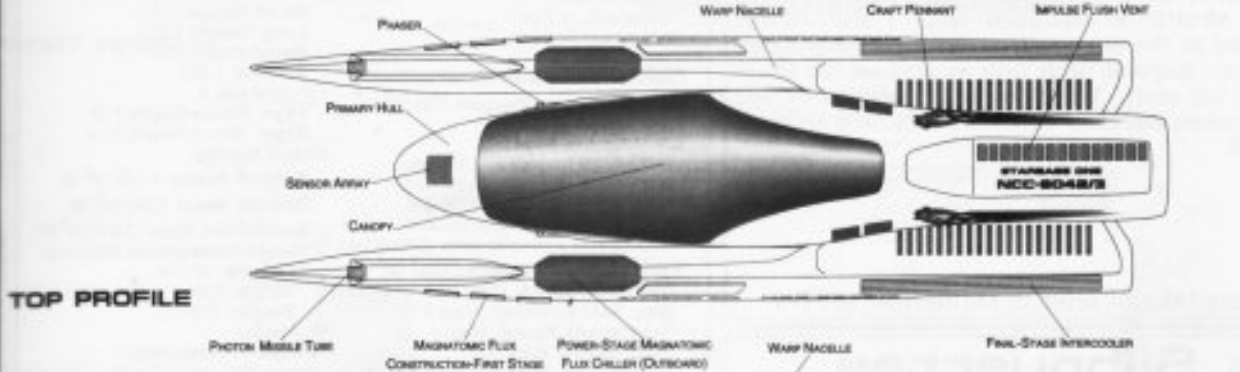
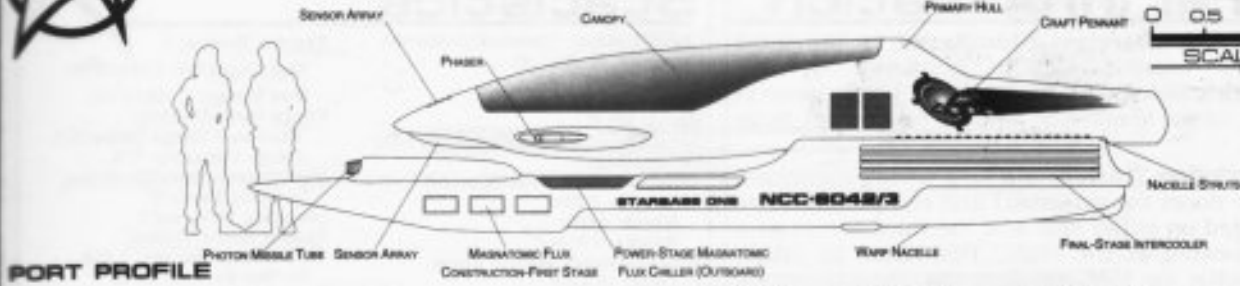
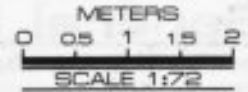
Light Fighter Wasp Class

FEDERATION CRAFT

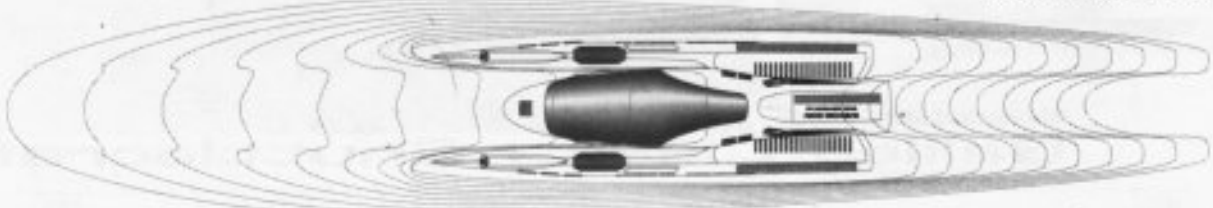


LIGHT FIGHTER

WASP CLASS



Field Length 22.86m
Field Width 4.13m
Field Height 2.48m



FEDERATION CRAFT

STANDARD SHUTTLECRAFT



GALILEO CLASS

General Information

Specific Role: The Standard Shuttlecraft is the most common warp capable shuttle employed by the Federation. The Shuttle is useful for a large array of missions due to its versatility, speed, range and large interior space.

Physical Description: The hull is a long wedge shape and has with three doors for personnel and equipment. Two doors are located on either side and the third serves as a cargo hatch located at the rear. Positioned on either side of the shuttle are (SMDN8/3-4) navigational sensor arrays. The shuttle is equipped with a (BP1/6-1D) phaser mounted in the top cowling. Sublight propulsion is provided by an impulse drive unit located on the lower rear section of the craft. Warp power is provided by two (SW9/1-3AG) micro-nacelles which are mounted on each side of the hull.

For additional detail refer to Datasheet MVT-1

Craft Silhouettes

Total Target Area 61.13 m²
Average Target Area 20.38 m²

Top Silhouette
Area 33.85 m²

Port Silhouette
Area 19.35 m²

Front Silhouette
Area 7.83 m²



Statistics

Classification: Standard Shuttlecraft

Category: Shuttlecraft

Class: Galileo

Type: Class 5

Model: MK-III

Naval Construction Contract: 3400

Dimensions:

Overall Dimensions (Meters)

Length: 8.73m

Width: 4.50m

Height: 2.81m

Displacement (Metric Tons)

Light: 18.43mt

Standard: 19.75mt

Full Load: 22.04mt

Performance:

Impulse Units: Dual Unit (IP47E/4-IP)

Impulse Engine Output: 7.8x10⁸ W

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.137 sec.

0.25-0.50 Impulse: 0.206 sec.

0.50-0.75 Impulse: 0.275 sec.

0.75-Full Impulse: 0.343 sec.

Warp Units: 2 Nacelle Units (SW08/1-4AX)

Warp Engine Output: 1.2x10⁷ W

Optimum Speed: Warp 2

Max. Safe Cruising: Warp 3

Emergency Speed: Warp 4

Max. Speed: Warp 4.2

Destructive Speed: Warp 4.5

Acceleration Power: 3.0

Acceleration Times:

Warp 1 - Warp 2: 2.450 sec.

Warp 2 - Warp 3: 2.967 sec.

Warp 3 - Warp 4: 5.684 sec.

Warp 4 - Warp 5: N/A

Warp 5 - Warp 6: N/A

Warp 6 - Warp 7: N/A

Warp 7 - Warp 8: N/A

Warp 8 - Warp 9: N/A

Warp 9 - Warp 9.5: N/A

Warp 9.5 - Warp 9.75: N/A

Warp 9.75 - Warp 9.9: N/A

Duration (Years)

Standard: 5 Years

Maximum: 20 Years

Std. Ships Complement: 1

Crew: 1

Passengers: 9

Emergency condition: +6

Transporters Total: 1

1 Person: 0

2 Person: 1

6 Person: 0

Small Cargo: 0

Medium Cargo: 0

Tractor Beams: 1

Tow Capacity: 5.10x10²mt

Max Range: 7.10x10¹km

Cargo Specification:

Standard Cargo Units: N/A

Cargo Capacity: N/A

Shuttlecraft Specifications:

Docking Ports: 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 1.254

Stellar Survey: 0.942

Short Range: 1.111

Long Range: 1.025

Navigation: 0.987

Special: 1.123

Computers: 2

Type: Norray-Magne 17:1

Type: Norray-Magne 13:x

Shield Rating:

Holdoff Power: 4.72x10⁸ W

Refresh Rate: 1.34x10⁸ W

Breakdown Rate: 1.61x10⁸ W

Shield Dimensions (Meters)

Length: 10.50m

Width: 3.04m

Height: 2.20m

Weapons:

Weapon Placement:

Beam (Phasers) Total: 1 Mounts

Output: 5.0x10⁸ W / 2.5x10⁸ W

Range: 2.5x 10³ km

Rate of Fire: 20 ppm / Cont.

Forward Banks: 1

Rear Banks: 0

Port Banks: 0

Starboard Banks: 0

Upper Banks: 0

Lower Banks: 0

Beam (HeavyPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Missiles (Photon) Total: N/A

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

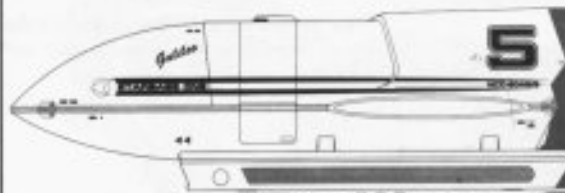
Starboard Bay: 0

Upper Bay: 0

Lower Bay: 0

FEDERATION CRAFT

Class Emblem



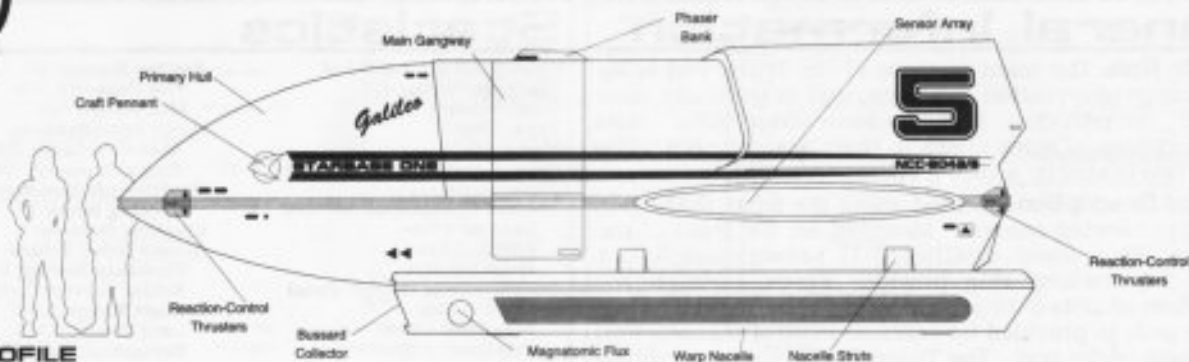
Galileo Class • Shuttlecraft



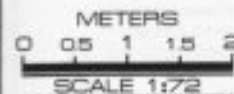
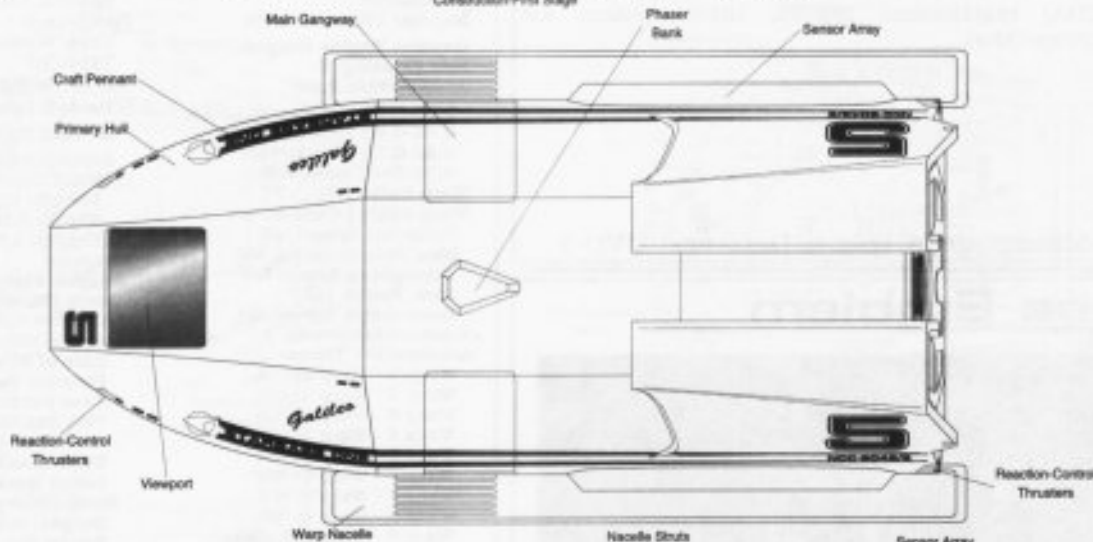
STANDARD SHUTTLECRAFT

GALILEO CLASS

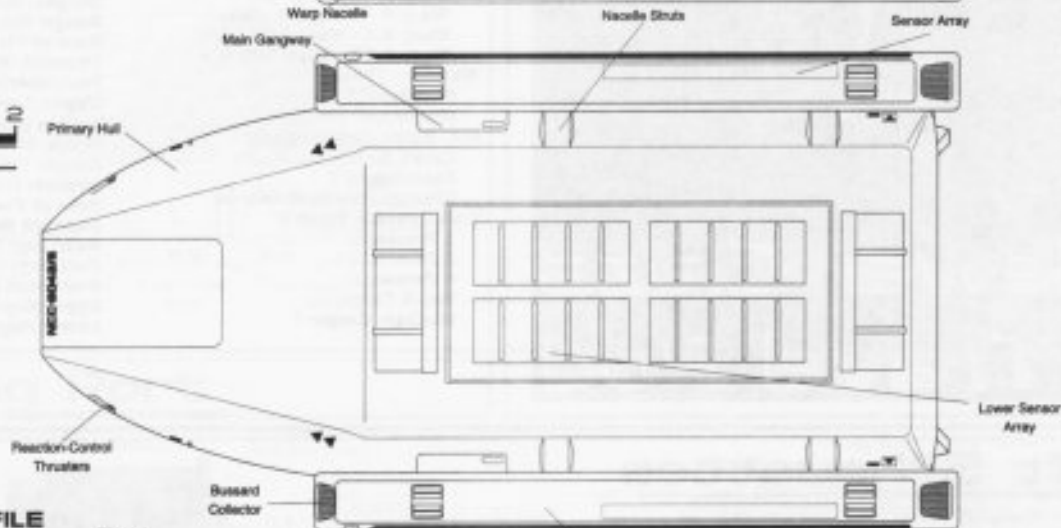
PORT PROFILE



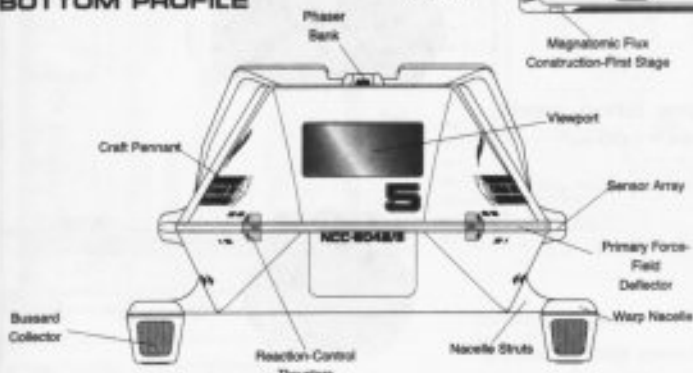
TOP PROFILE



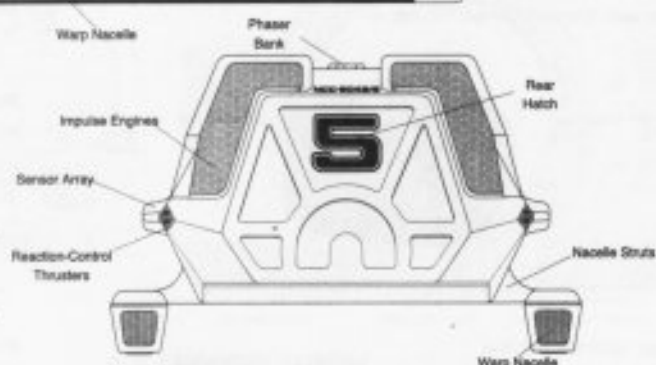
BOTTOM PROFILE



FRONT PROFILE



REAR PROFILE



FEDERATION CRAFT

TRAVEL POD



VIEWER CLASS

General Information

Specific Role: The main purpose of the Travel Pod is for short range observation missions, and is generally used around construction sites for observation and transportation of work crews to their assignments. The Travel Pod is strictly a zero-g operational vehicle.

Physical Description: Located along the front of the pod is a large viewing canopy. Mounted on the front of the pod are 32 raised (SMDN4/2-1) sensor panels. A (DRM1-2A) docking ring provides egress through the rear when attached to an air-lock. Fine maneuvering, for the pod, is provided by reaction control thrusters on either side of the rear. The Travel Pod is equipped with a (IM4/5-2DA) reactionless gravitic drive system for primary propulsion.

For additional detail refer to Datasheet MVD-1

Class Emblem



Statistics

Classification: Travel Pod
Category: Shuttlecraft
Class: Viewer
Type: Class 5
Model: MK-11c
Naval Construction Contract: TP-15

Dimensions:
Overall Dimensions (Meters)
 Length: 4.34m
 Width: 3.20m
 Height: 2.76m
Displacement (Metric Tons)
 Light: 1.89mt
 Standard: 1.95mt
 Full Load: 2.50mt

Performance:
Impulse Units: Thrusters
Impulse Engine Output: 7.8×10^5 W
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 4×10^5 sec.
 0.25-0.50 Impulse: N/A
 0.50-0.75 Impulse: N/A
 0.75-Full Impulse: N/A
Warp Units: N/A
Warp Engine Output: N/A
Optimum Speed: N/A
Max. Safe Cruising: N/A
Emergency Speed: N/A
Max. Speed: N/A
Destructive Speed: N/A
Acceleration Power: 0
Acceleration Times:
 Warp 1 - Warp 2: N/A
 Warp 2 - Warp 3: N/A
 Warp 3 - Warp 4: N/A
 Warp 4 - Warp 5: N/A
 Warp 5 - Warp 6: N/A
 Warp 6 - Warp 7: N/A
 Warp 7 - Warp 8: N/A
 Warp 8 - Warp 9: N/A
 Warp 9 - Warp 9.5: N/A
 Warp 9.5 - Warp 9.75: N/A
 Warp 9.75 - Warp 9.9: N/A
Duration (Years)
 Standard: 3 Years
 Maximum: 8 Years
Std. Ships Complement: 1
 Crew: 1
 Passengers: 7
 Emergency condition: +4
Transporters Total: 0
 1 Person: 0
 2 Person: 0
 6 Person: 0
 Small Cargo: 0
 Medium Cargo: 0

Tractor Beams: N/A
Tow Capacity: N/A
Max Range: N/A
Cargo Specification:
Standard Cargo Units: N/A
Cargo Capacity: N/A
Shuttlecraft Specifications:
Docking Ports: 1
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.451
 Stellar Survey: 0.215
 Short Range: 0.987
 Long Range: 0.115
 Navigation: 0.012
 Special: 1.021
Computers: 1
Type: Norray-Magne 15:c
Type: N/A
Shield Rating:
 Holdoff Power: 4.72×10^4 W
 Refresh Rate: 1.34×10^6 W
 Breakdown Rate: 1.61×10^{14} W
Shield Dimensions (Meters)
 Length: 5.21m
 Width: 3.84m
 Height: 3.31m

Weapons:
Weapon Placement:
Beam (Phasers) Total: N/A
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward Banks: 0
Rear Banks: 0
Port Banks: 0
Starboard Banks: 0
Upper Banks: 0
Lower Banks: 0
Beam (HeavyPhasers) Total: N/A
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Missiles (Photon) Total: N/A
Stock: N/A
Range: N/A
Output: N/A
Rate of Fire: 0
Forward Bay: 0
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

Craft Silhouettes

Total Target Area 30.74 m²
Average Target Area 10.25 m²



Top Silhouette
Area 12.40 m²



Port Silhouette
Area 11.00 m²



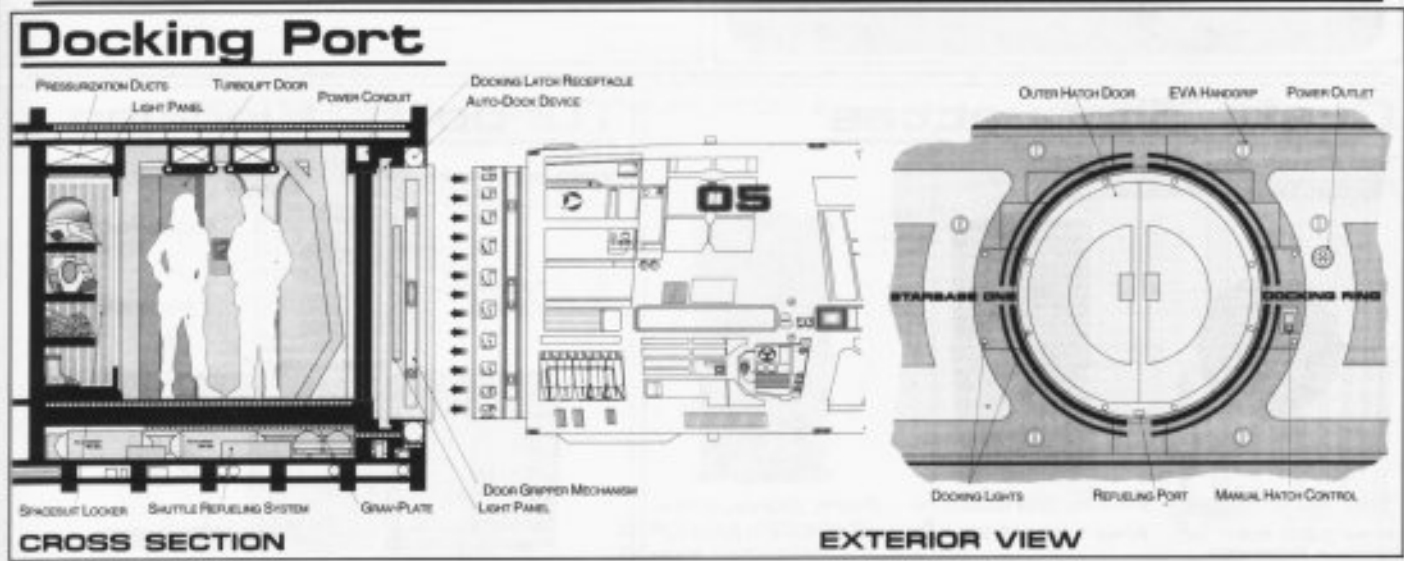
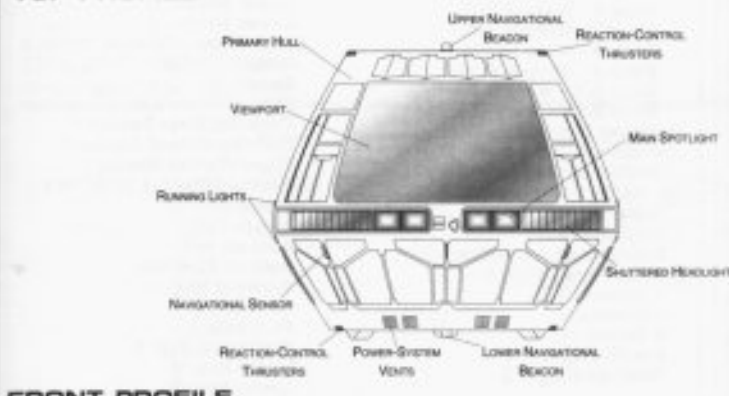
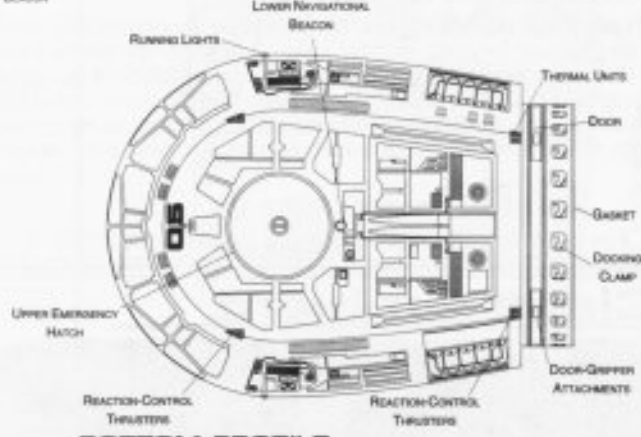
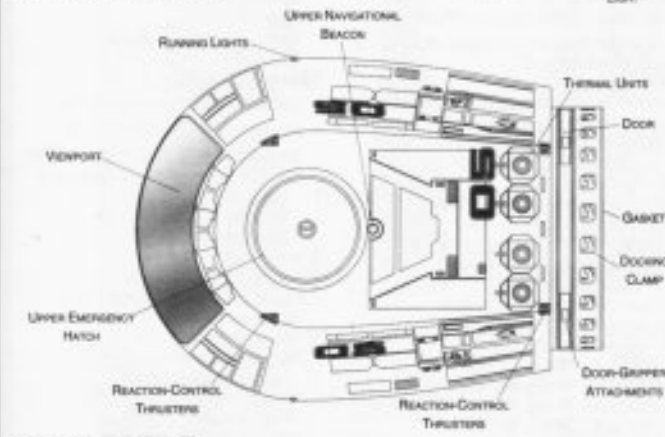
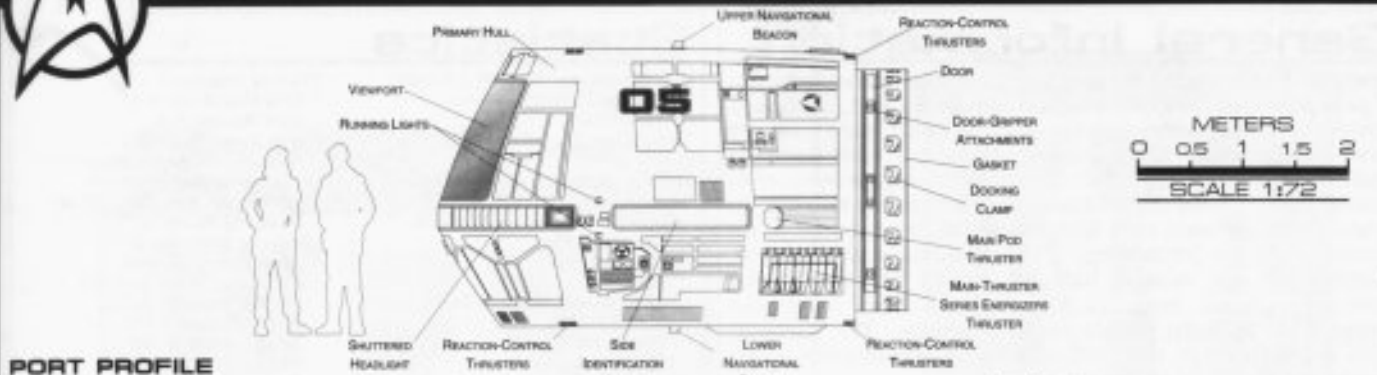
Front Silhouette
Area 7.34 m²

FEDERATION CRAFT



TRAVEL POD

VIEWER CLASS



FEDERATION CRAFT

TURBOLIFT (LIFEBOAT)



SHIFTER CLASS

General Information

Specific Role: Turbolifts are used for the transportation of personnel and supplies inside starships and starbases, however during emergencies the turbolift cars can be used as lifeboats. During normal use, turbolift cars are positioned at each turbolift station, allowing personnel to reach the lifeboats from almost any location. During an evacuation, as soon as a lifeboat is full, it proceeds to an outside exit for jettisoning. The lifeboat, once ejected, extends to one and a half its length increasing the internal volume from 12.67m³ to 24.88m³ and can support up to eight people for four weeks. The turbolift cars move through the turboshafes by acceleration rings located in the tube system.

Physical Description: The turbolift car is cylindrical with a large door located on the side. Located on the bottom is the emergency propulsion system and lifeboat survival equipment. On the top is the emergency beacon, sensors and landing parachute. The interior is equipped with food rations and other standard survival equipment.

For additional detail refer to Datasheet MVU-1

Class Emblem



Statistics

Classification: Turbolift (Lifeboat)
Category: Turbolift
Class: Shifter
Type: Class 5
Model: MK-IV
Naval Construction Contract: TL-34
Dimensions:
Overall Dimensions (Meters)
 Length: 2.70m
 Width: 2.70m
 Height: 3.69/5.07m
Displacement (Metric Tons)
 Light: 5.96mt
 Standard: 6.38mt
 Full Load: 7.12mt
Performance:
Impulse Units: Single (IP16E/4-TL)
Impulse Engine Output: 6.5x10⁵ W
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.137 sec.
 0.25-0.50 Impulse: N/A
 0.50-0.75 Impulse: N/A
 0.75-Full Impulse: N/A
Warp Units: N/A
Warp Engine Output: N/A
Optimum Speed: N/A
Max. Safe Cruising: N/A
Emergency Speed: N/A
Max. Speed: N/A
Destructive Speed: N/A
Acceleration Power: N/A
Acceleration Times:
 Warp 1 - Warp 2: N/A
 Warp 2 - Warp 3: N/A
 Warp 3 - Warp 4: N/A
 Warp 4 - Warp 5: N/A
 Warp 5 - Warp 6: N/A
 Warp 6 - Warp 7: N/A
 Warp 7 - Warp 8: N/A
 Warp 8 - Warp 9: N/A
 Warp 9 - Warp 9.5: N/A
 Warp 9.5 - Warp 9.75: N/A
 Warp 9.75 - Warp 9.9: N/A
Duration (Years)
 Standard: 5 Years
 Maximum: 20 Years
Std. Ships Complement: 8
Crew: 0
Passengers: 8
Emergency condition: +2
Transporters Total: 0
 1 Person: 0
 2 Person: 0
 6 Person: 0
Small Cargo: 0
Medium Cargo: 0

Tractor Beams: 0
Tow Capacity: N/A
Max Range: N/A
Cargo Specification:
Standard Cargo Units: N/A
Cargo Capacity: N/A
Shuttlecraft Specifications:
Docking Ports: 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.823
 Stellar Survey: 0.225
 Short Range: 1.011
 Long Range: 0.356
 Navigation: 0.125
 Special: 0.112
Computers: 1
Type: Norray-Magne 5s
Type: N/A
Shield Rating:
Holdoff Power: 4.72x10⁴ W
Refresh Rate: 1.34x10⁴ W
Breakdown Rate: 1.61x10⁴ W
Shield Dimensions (Meters)
 Length: 3.24m
 Width: 3.24m
 Height: 4.82m
Weapons:
Weapon Placement:
Beam (Phasers) Total: N/A
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward Banks: 0
Rear Banks: 0
Port Banks: 0
Starboard Banks: 0
Upper Banks: 0
Lower Banks: 0
Beam (HeavyPhasers) Total: 0
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Missiles (Photon) Total: N/A
Stock: N/A
Range: N/A
Output: N/A
Rate of Fire: N/A
Forward Bay: 0
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

FEDERATION CRAFT

Craft Silhouettes

Total Target Area 21.10, 31.28 m²
 Average Target Area 7.03, 10.43 m²



Top Silhouette
 Area 5.89, 5.91 m²
 *Brakes Extended

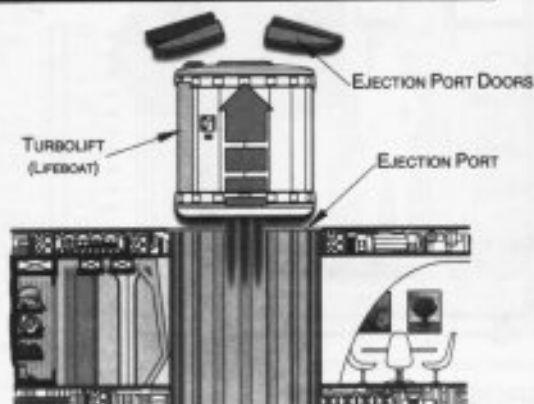


Front Silhouette
 Area 7.70, 12.78 m²



Port Silhouette
 Area 7.71, 12.80 m²

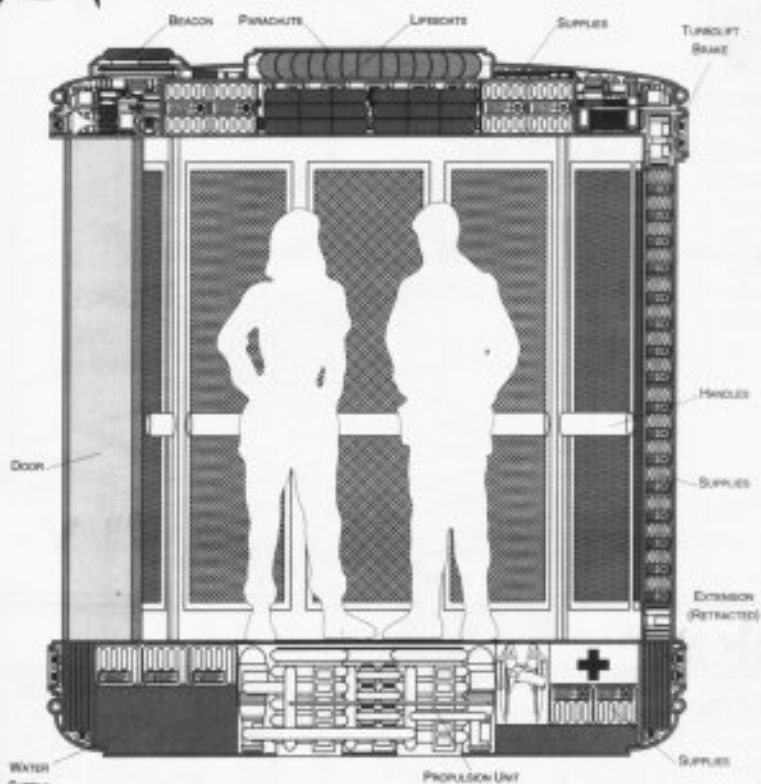
Turbolift Ejection



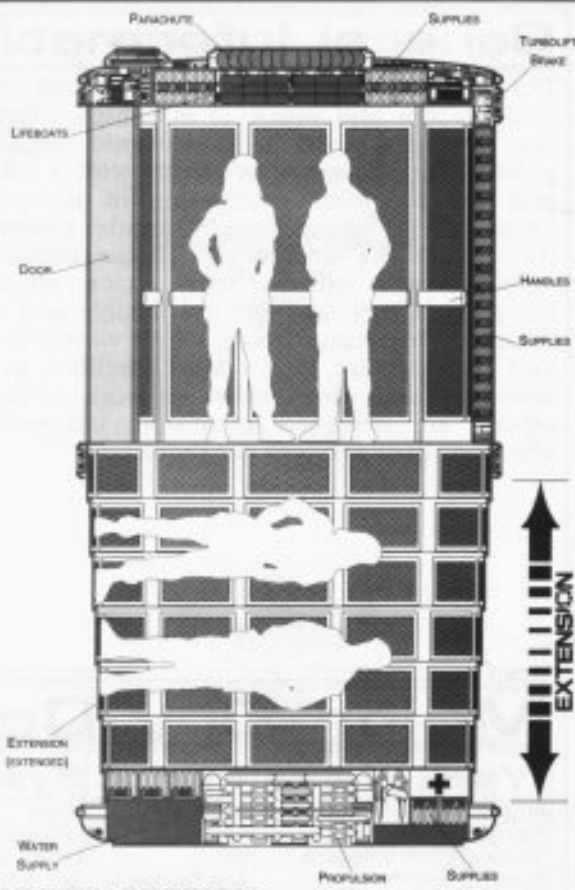


TURBOLIFT (LIFEBOAT)

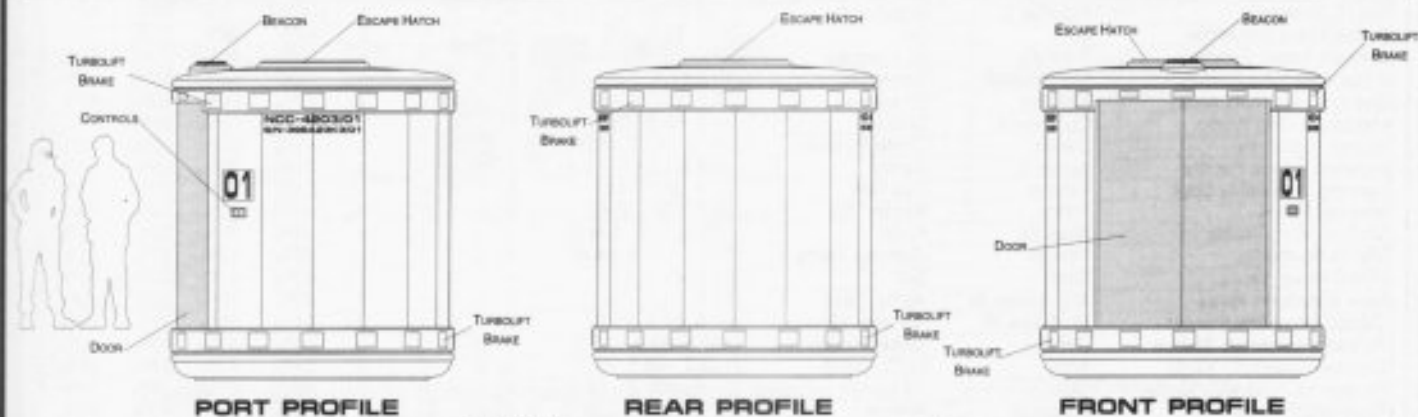
SHIFTER CLASS



CROSS SECTION
Enlarged for Clarity



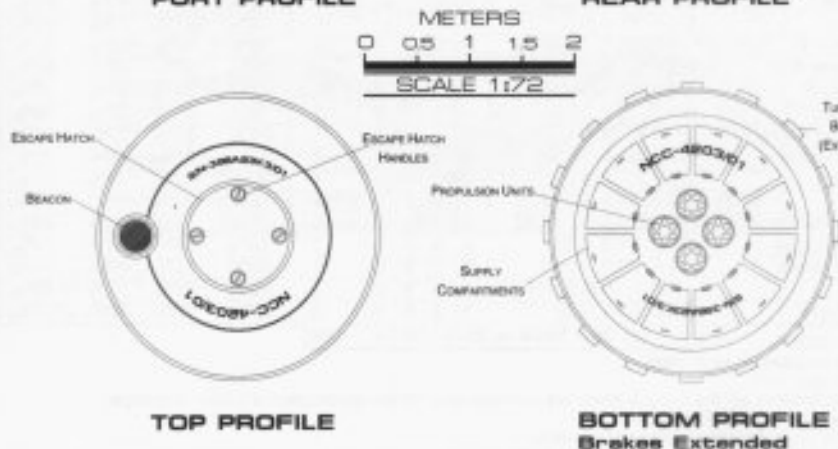
CROSS SECTION
Extended (Lifeboat)



PORT PROFILE

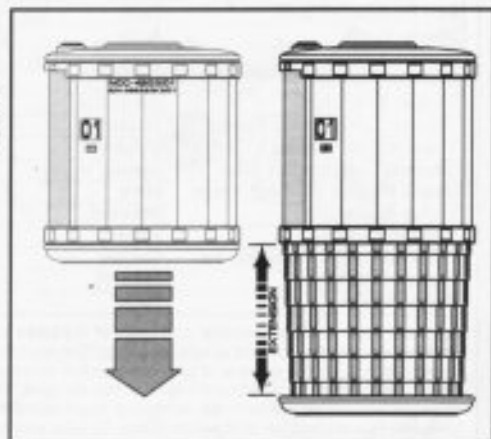
REAR PROFILE

FRONT PROFILE



TOP PROFILE

BOTTOM PROFILE
Brakes Extended



FEDERATION CRAFT

DRYDOCKS

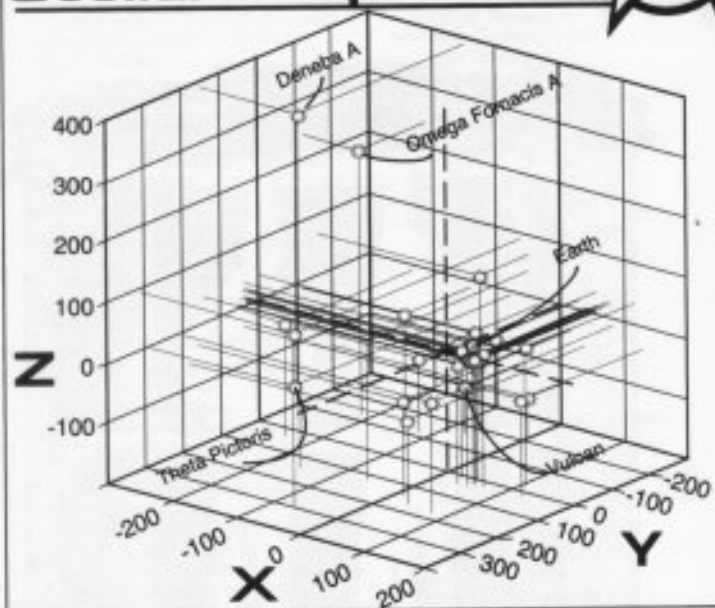


GENERAL INFORMATION

General Information

The Dry Dock facilities are designed for the construction and repair of starships. Drydocks are equipped with ultra-accurate sensors to provide the construction facility with a reference grid for precision positioning of components. Large work lights provide ample illumination throughout the work area. Some facilities are equipped with offices, living space, shops and hangars. Other facilities are flexible and can be expanded to accommodate a wide variety of repair and construction jobs. Most facilities must be towed to their destination or work area, while others are designed to propel themselves to wherever their services are required.

Stellar Map



Major Dry Docks**

Yard Name	Planet	System	Stellar Coordinates	Dry Dock Type				Production		Construction		Class		
				I	II	III*	IV	Total	Civilian	Military	Repair		New	
Antares Ship Yards	Antare III	Antare	(152.7, 23.5, -43.3)	0	3	0	0	3	55%	45%	62%	38%	D	
Barington Industries	Sauria	UFC 512	(-166.3, -43.3, 62.1)	1	1	1	0	3	24%	78%	78%	22%	D	
Bekkaas Military Installation	Izar	Epsilon Bootis	(36.7, 84.7, 17.6)	3	4	5	1	13	12%	88%	30%	70%	B	
Boeing-Matsushita	Zeta Tucanae III	Zeta Tucanae	(43.9, 45.8, -2.3)	2	1	0	0	3	70%	30%	36%	64%	D	
Boston Construction Complex	Earth	Sol	(23.9, 61.8, 0.0)	5	2	1	1	9	40%	60%	40%	60%	C	
Cameron Naval Center	Deneb V	Deneb A	(142.7, -143.4, 382.5)	3	2	5	0	10	21%	79%	5%	95%	B	
Cochrane Industries	Alpha Centari VII	Alpha Centari	(24.6, 62.5, -1.0)	7	5	2	3	17	15%	85%	65%	35%	A	
Dared Shipyards	Argelius II	Argelius B	(-154.7, -59.2, -121.2)	0	1	0	4	5	100%	0%	34%	66%	C	
Duotechnica Industries	Luna	Sol	(23.9, 61.8, 0.0)	3	0	2	0	5	62%	38%	21%	79%	D	
Entropy Space Facilities	Aurelia	XI Herculis	(176.7, 44.5, -63.3)	0	1	2	0	3	54%	46%	21%	79%	D	
Fasis Assembly Installation	Eta Serpentis	Serpentis	(40.8, 61.6, 7.2)	2	2	0	0	4	44%	56%	65%	35%	D	
Geomry Assembly Area	Medusa	XI Hydrae	(27.2, 137.6, -41.3)	0	3	1	0	4	90%	10%	35%	65%	D	
Harrisburg Ship Works	Coridan III	Coridan	(29.7, 64.3, 29.9)	2	3	0	0	5	100%	0%	38%	62%	C	
Harrell Hullworks	Catulla	Theta Pictoris	(277.6, -73.7, -13.9)	0	2	1	0	3	45%	55%	22%	78%	D	
Karinton Space Facility	Janus VI	Janus	(-128.8, -30.1, -15.8)	2	2	0	0	4	21%	79%	55%	45%	D	
Lancing Assembly Dock	Kaferia	Tau Ceti	(22.8, 58.7, -1.5)	3	1	0	0	4	21%	79%	22%	78%	D	
Masrhal Fields	Andor	Epsilon IDI	(25.8, 60.1, -2.4)	2	2	1	0	5	65%	35%	34%	66%	C	
Merimar Ship Works	Rigel IV	Rigel	(-209.9, 7.7, -136.0)	4	0	7	3	14	25%	75%	22%	78%	B	
Merria Spacecity	Benzar	Gamma Xertia	(301.4, -57.4, 84.4)	4	3	1	2	10	88%	12%	62%	38%	B	
Miami Naval Yards	Earth	Sol	(23.9, 61.8, 0.0)	4	1	0	1	6	60%	40%	60%	40%	C	
New Aberdeen Yards	Alderbaran III	Alpha Tauri	(10.6, 56.5, -15.1)	2	2	0	1	5	30%	70%	20%	80%	C	
Orbital Assembly Station	Starbase 16	Messier 12	(30.5, 82.5, 22.6)	3	1	2	1	7	54%	46%	11%	89%	C	
Parinton Assembly Station	Delta	Delta Triciatu	(187.3, 89.9, -17.3)	0	3	0	0	3	65%	35%	90%	10%	D	
Quarian Assembly Yards	Argo	UFC 78856	(133.4, -45.5, 32.9)	4	0	0	0	4	54%	46%	34%	66%	D	
Roseanna Assembly Yards	Cait	15 Lyncis	(41.9, -228.3, -12.6)	0	1	2	3	6	18%	82%	50%	50%	C	
Rowington Yards	Makus III	Makus	(-8.6, 124.6, 32.5)	2	2	1	0	5	80%	20%	40%	60%	C	
San Francisco Yards	Earth	Sol	(23.9, 61.8, 0.0)	7	3	1	5	16	3%	97%	10%	90%	A	
Shane Yards	Actar	Cygnus D	(15.7, 35.7, 10.6)	2	0	1	0	3	78%	22%	65%	35%	D	
Starbase 12	Gamma 400 III	Gamma 400	(22.5, 48.5, -0.55)	1	2	1	0	4	56%	44%	33%	67%	D	
Starfleet Division	Deneb II	Deneb A	(142.7, -143.4, 382.5)	2	4	3	1	10	21%	79%	27%	73%	B	
Station Rotterdam	Bentocha	Barnard 17	(18.7, 75.7, 12.6)	0	0	3	0	3	54%	46%	66%	34%	D	
Tiburon Construction Yards	Tiburon	Omega Fornacis A	(-121.9, -207.4, 236.4)	0	1	2	0	3	68%	32%	32%	68%	D	
Tyndaris Star Vessels LTD	Vulcan	40 Eridania	(19.5, 60.0, -0.60)	4	1	2	0	7	78%	22%	15%	85%	C	
Urbuaris Construction Site	Darvan V	Darvan	(-127.5, -139.2, -19.7)	3	1	0	0	4	90%	10%	44%	56%	D	
Utopia Planitia Starfleet Yards	Mars	Sol	(23.9, 61.8, 0.0)	7	2	5	5	19	2%	98%	4%	96%	A	
Varius Spacedock	Betazed	Beta Veldonna	(-292.3, -93.3, -88.1)	2	2	1	0	5	97%	3%	54%	46%	C	
Vega Shipyards	Vega	Alpha Lyrae	(28.2, 61.3, 6.9)	2	5	0	0	7	45%	55%	26%	74%	C	
Vulcanis Space Facilities, Inc.	Vulcan	40 Eridania	(19.5, 60.0, -0.60)	5	5	2	3	15	90%	10%	30%	70%	A	
Waters Installation	Beta VI	Beta	(-109.1, -106.3, -74.2)	1	5	1	0	7	65%	35%	12%	88%	C	
Xarets Works	Tellar	61 Cygni	(25.0, 60.1, 2.6)	1	2	0	0	3	27%	73%	40%	60%	D	
Dry Dock Totals				95	81	56	34	266						

Dry Dock Type : Lists the number and types of drydocks at each Yard.

Production: Lists the percent of military and civilian craft that are produced at each Yard.

Construction: Lists the percent of new construction and repair at each Yard.

Class: Designates the construction level of the dry dock. The best facilities are the Class A which are normally used for the construction of Class I Starships.

* Type III Dry Docks are normally located at these installations when not needed on location.

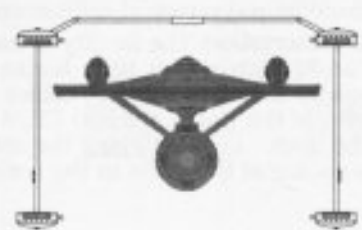
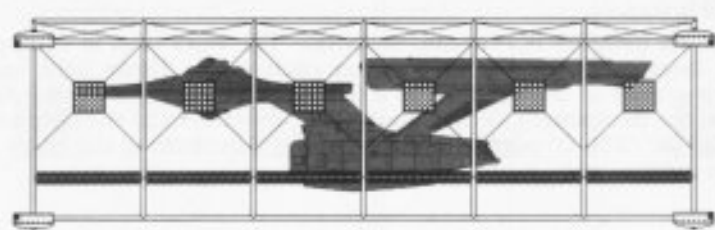
** Additional construction companies (Class E) exist and lease dry docks from the facilities listed here.

FEDERATION FACILITY

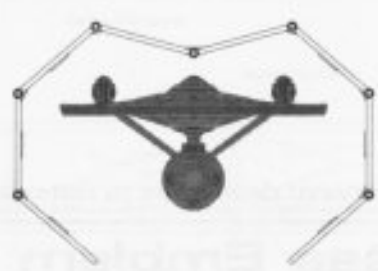
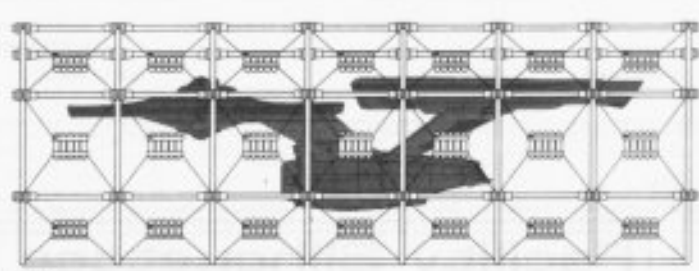


Size Comparison

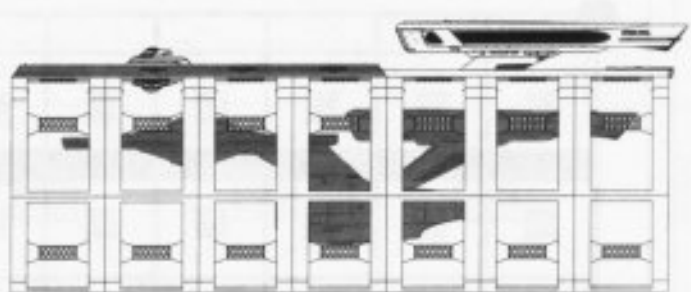
GENERAL INFORMATION



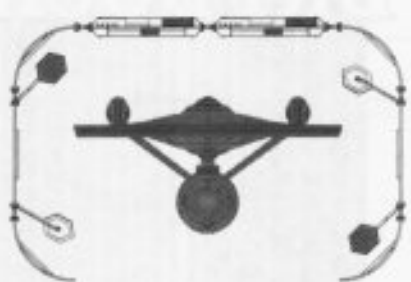
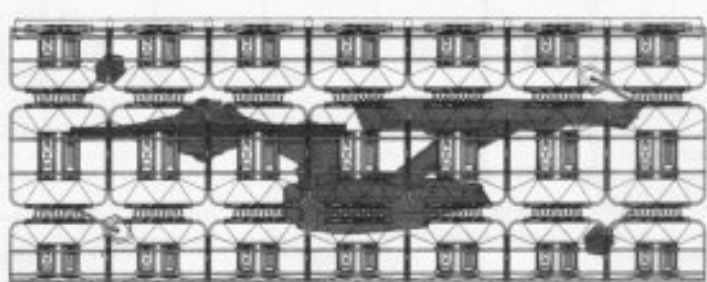
Type I
Dry Dock



Type II
Dry Dock



Type III
Dry Dock



Type IV
Dry Dock

METERS
0 20 40 60 80 100
SCALE 1:4000

FEDERATION FACILITY

DRY DOCK TYPE I



General Information

Specific Role: Although old, these facilities are still used at many construction yards. For longer vessels, the facility may have additional sections added to accommodate the additional length. This facility is generally used in the production and repair of civilian and research vessels.

Physical Description: The facility is made up of six (DD/R6-1C) tubular sections. The work area is equipped with 24 (LF/25-S) high power light banks, twelve located on the top and six on each side. These light banks are supported by duralloy support cables. At each corner of the drydock is a (DH/30-45W) hangar deck. Along the lower sides of the frame are 360 (DI/46:AS) inertial dampeners to help control the movement of the ship and parts within the dock. Located along the spine are 39 (SP/256-D) positioning sensors for determining the exact location and positioning of the parts in the construction area.

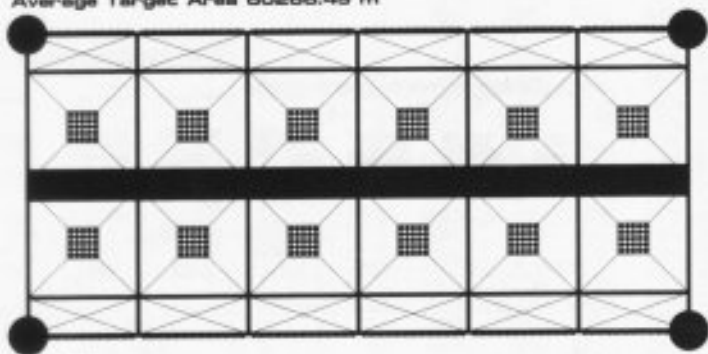
For additional detail refer to Datasheet MVDD-1

Class Emblem

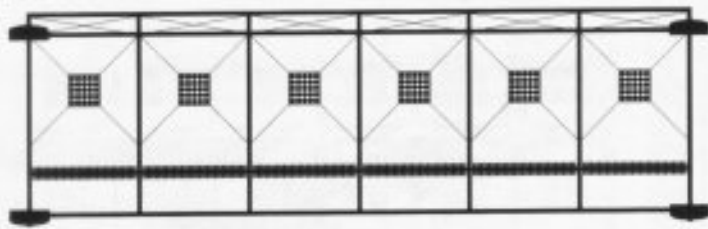


Facility Silhouettes

Total Target Area 180799.47 m²
Average Target Area 60266.49 m²



Top Silhouette
Area 108008.70 m²



Port Silhouette
Area 71428.46 m²



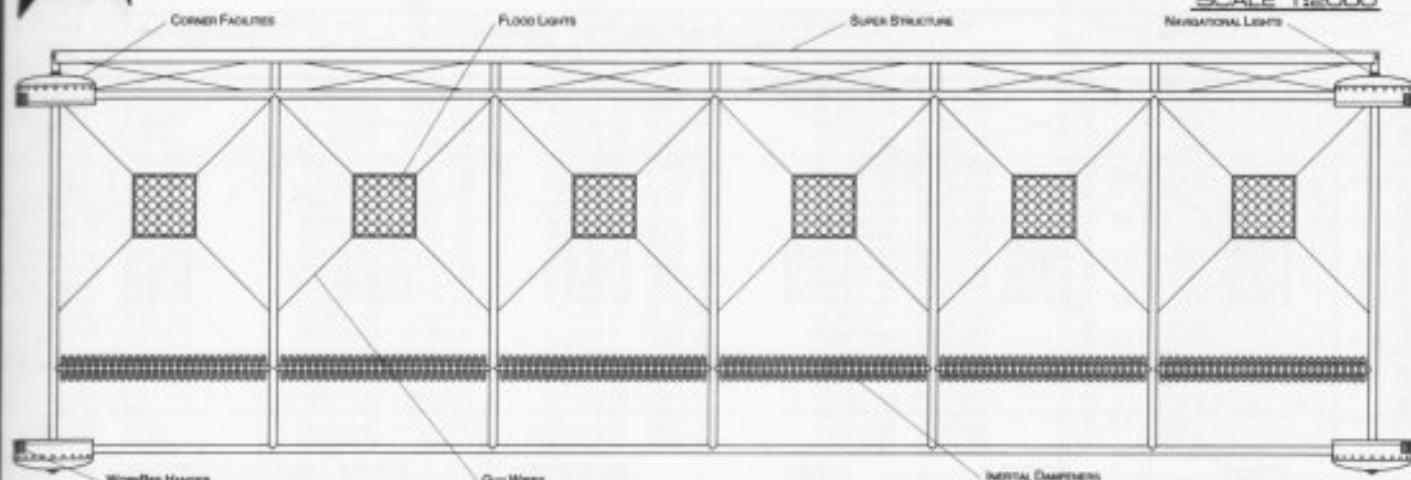
Front Silhouette
Area 1362.31 m²



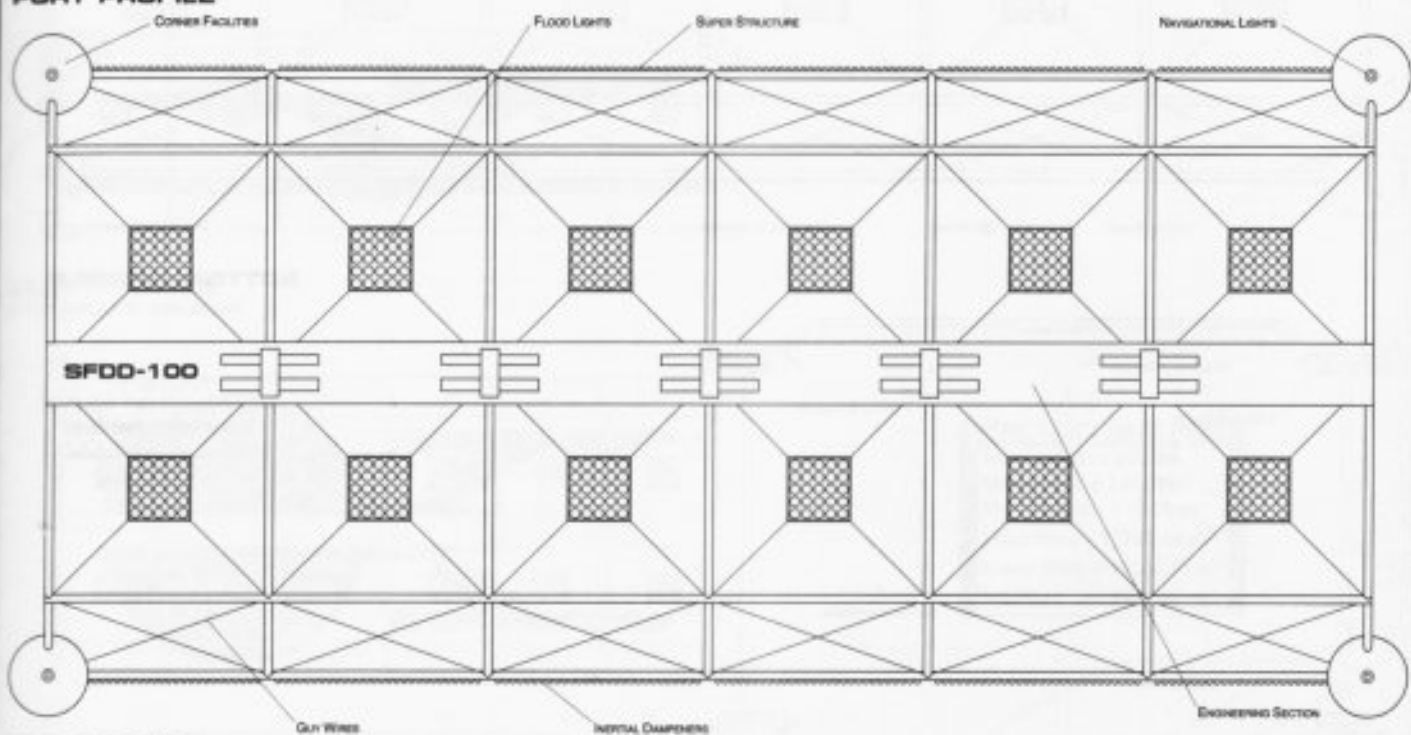
DRY DOCK TYPE I

METERS
0 10 20 30 40 50
SCALE 1:2000

ROMAN CLASS



PORT PROFILE



TOP PROFILE

Statistics

Classification: Dry Dock

Category: Type 1

Class: Pharos

Type: Class 4

Model: Type I

Naval Construction Contract: 100

Number Proposed: 100

Number Constructed: 100

Number in Service: 95

Number Lost: 5

Dimensions:

Overall Dimensions (Meters)

Length: 370.505m

Width: 180.397m

Height: 111.871m

Displacement (Metric Tons)

Light: 101,123mt

Standard: 101,601mt

Full Load: 110,231mt

Duration (Years)

Standard: 30 Years

Maximum: 60 Years

Std. Facility Complement: 150

Officers: 20

Crew (Ensign Grade): 130

Emergency condition: +200

Medical Facilities:

Doctors: 2

Medical Staff: 10

Operating Rooms: 1

Beds: 5

Transporters Total: 10

1 Person: 0

2 Person: 0

6 Person: 4

12 Person: 0

22 Person: 0

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 2

Super Cargo: 0

Replicators: 14

Major Tractor Beams: 1

Tow Capacity: 3.74x106mt

Max Range: 9.00x104km

Minor Tractor Beams: 1

Tow Capacity: 1.90x106mt

Max Range: 4.7x104km

Cargo Specification:

Standard Cargo Units: 100

Cargo Capacity: 5,000mt

Shuttlecraft Specifications:

Shuttlecraft Bays Total: 8

Small Bay: 8

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 63

Work Bees: 20

Tug Shuttle: 8

Work Shuttle: 15

Travel Pods: 5

Light Shuttle: 1

Standard Shuttle: 3

Heavy Shuttle: 1

Cargo Shuttle: 10

Lifeboats: 10

Turbolift (8 person): 4

Lifeboat (10 person): 0

Lifeboat (20 person): 6

Lifeboat (30 person): 0

Sensor Index Values:

Alignment Sensor: 1.101

Computers: 2

Type: Daystrom Duotronic IIr

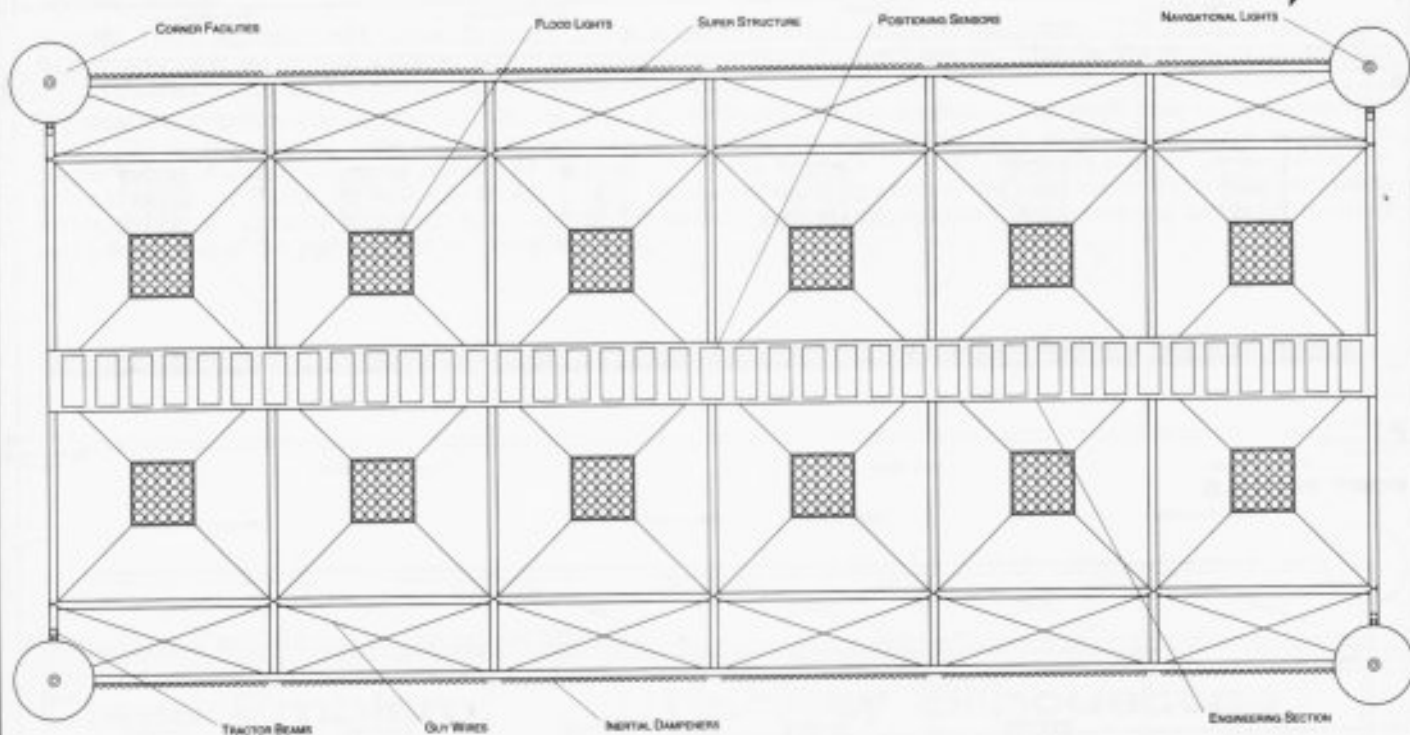
Type: Daystrom Duotronic Ii

FEDERATION FACILITY

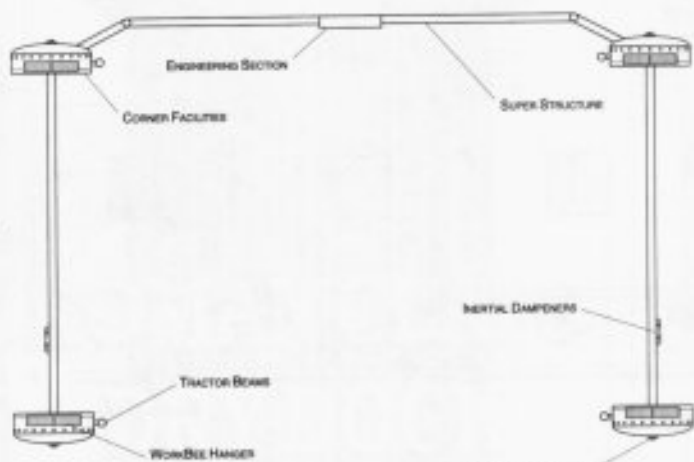
DRY DOCK TYPE I



ROMAN CLASS

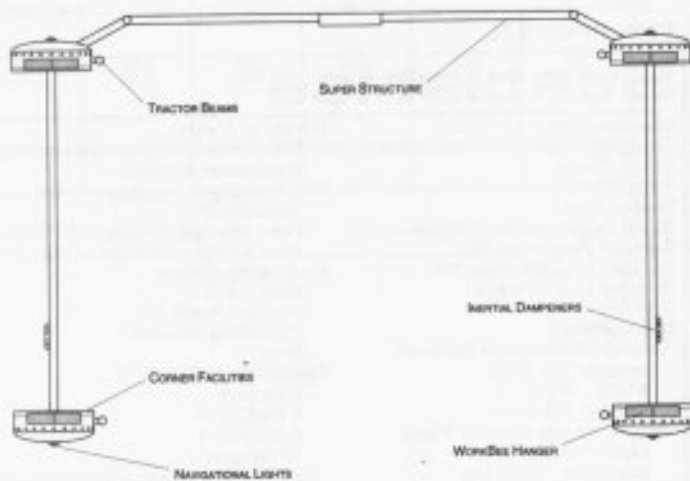


BOTTOM PROFILE



FRONT PROFILE

METERS
0 10 20 30 40 50
SCALE 1:2000



REAR PROFILE

FEDERATION FACILITY



DRY DOCK TYPE I

Facility Names

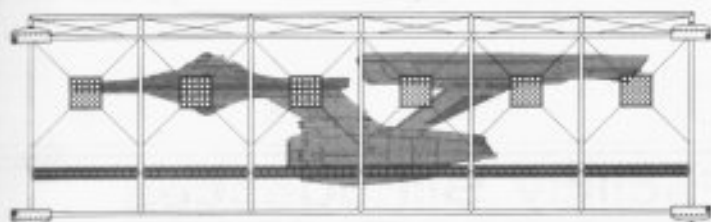
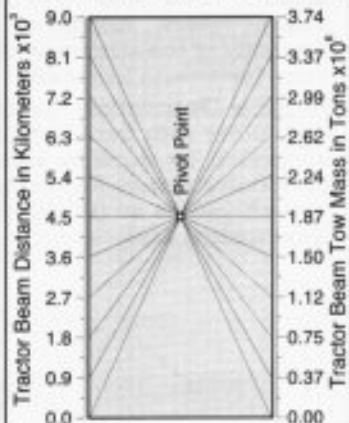
THE FOLLOWING SHIPS OF THE TYPE I CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2242.10

ROMAN -SFDD-100*	ROMAN-25 -SFDD-125	ROMAN-50 -SFDD-150	ROMAN-75 -SFDD-175
ROMAN-1 -SFDD-101	ROMAN-26 -SFDD-126	ROMAN-51 -SFDD-151	ROMAN-76 -SFDD-176**
ROMAN-2 -SFDD-102	ROMAN-27 -SFDD-127	ROMAN-52 -SFDD-152	ROMAN-77 -SFDD-177
ROMAN-3 -SFDD-103	ROMAN-28 -SFDD-128	ROMAN-53 -SFDD-153	ROMAN-78 -SFDD-178
ROMAN-4 -SFDD-104	ROMAN-29 -SFDD-129	ROMAN-54 -SFDD-154	ROMAN-79 -SFDD-179
ROMAN-5 -SFDD-105	ROMAN-30 -SFDD-130	ROMAN-55 -SFDD-155	ROMAN-80 -SFDD-180**
ROMAN-6 -SFDD-106	ROMAN-31 -SFDD-131	ROMAN-56 -SFDD-156	ROMAN-81 -SFDD-181
ROMAN-7 -SFDD-107	ROMAN-32 -SFDD-132	ROMAN-57 -SFDD-157	ROMAN-82 -SFDD-182
ROMAN-8 -SFDD-108	ROMAN-33 -SFDD-133	ROMAN-58 -SFDD-158	ROMAN-83 -SFDD-183
ROMAN-9 -SFDD-109	ROMAN-34 -SFDD-134	ROMAN-59 -SFDD-159	ROMAN-84 -SFDD-184
ROMAN-10 -SFDD-110	ROMAN-35 -SFDD-135	ROMAN-60 -SFDD-160	ROMAN-85 -SFDD-185
ROMAN-11 -SFDD-111	ROMAN-36 -SFDD-136	ROMAN-61 -SFDD-161	ROMAN-86 -SFDD-186
ROMAN-12 -SFDD-112	ROMAN-37 -SFDD-137	ROMAN-62 -SFDD-162	ROMAN-87 -SFDD-187
ROMAN-13 -SFDD-113**	ROMAN-38 -SFDD-138	ROMAN-63 -SFDD-163	ROMAN-88 -SFDD-188
ROMAN-14 -SFDD-114	ROMAN-39 -SFDD-139	ROMAN-64 -SFDD-164	ROMAN-89 -SFDD-189
ROMAN-15 -SFDD-115	ROMAN-40 -SFDD-140	ROMAN-65 -SFDD-165	ROMAN-90 -SFDD-190**
ROMAN-16 -SFDD-116	ROMAN-41 -SFDD-141	ROMAN-66 -SFDD-166	ROMAN-91 -SFDD-191
ROMAN-17 -SFDD-117	ROMAN-42 -SFDD-142	ROMAN-67 -SFDD-167	ROMAN-92 -SFDD-192
ROMAN-18 -SFDD-118	ROMAN-43 -SFDD-143	ROMAN-68 -SFDD-168	ROMAN-93 -SFDD-193
ROMAN-19 -SFDD-119	ROMAN-44 -SFDD-144	ROMAN-69 -SFDD-169	ROMAN-94 -SFDD-194
ROMAN-20 -SFDD-120	ROMAN-45 -SFDD-145	ROMAN-70 -SFDD-170	ROMAN-95 -SFDD-195
ROMAN-21 -SFDD-121	ROMAN-46 -SFDD-146	ROMAN-71 -SFDD-171	ROMAN-96 -SFDD-196
ROMAN-22 -SFDD-122	ROMAN-47 -SFDD-147	ROMAN-72 -SFDD-172	ROMAN-97 -SFDD-197
ROMAN-23 -SFDD-123	ROMAN-48 -SFDD-148	ROMAN-73 -SFDD-173	ROMAN-98 -SFDD-198
ROMAN-24 -SFDD-124	ROMAN-49 -SFDD-149**	ROMAN-74 -SFDD-174	ROMAN-99 -SFDD-199

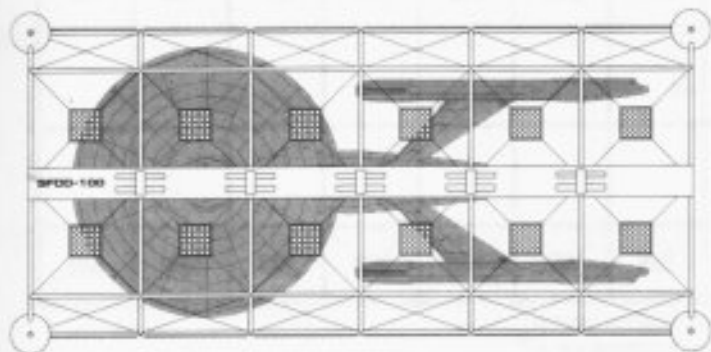
*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED.

Tractor Beam Specifications

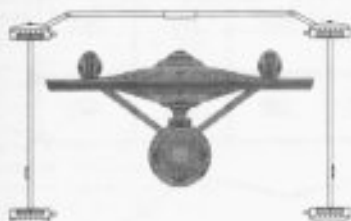
Primary Tractor Beam Load Calculator



**SIDE PROFILE
WITH HEAVY CRUISER**



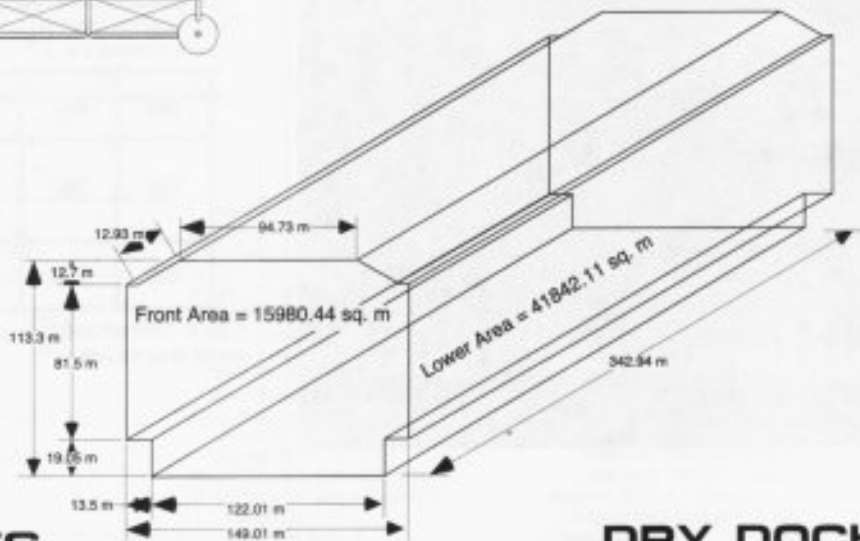
**TOP PROFILE
WITH HEAVY CRUISER**



**FRONT PROFILE
WITH HEAVY CRUISER**

WORK AREA DIMENSIONS

Max. Length = 342.94
 Max. Width = 149.01m
 Max. Height = 113.25 m
 Front Area = 15980.44 m²
 Lower Area = 41842.11 m²
 Volume = 5480332.09 m³



**DRY DOCK
AREA USAGE**

DRY DOCK PROFILES WITH HEAVY CRUISER

SRMA-1 04:02:01:04

DRY DOCK TYPE II



General Information

Specific Role: This versatile drydock is designed to adjust its shape to closely match the configuration of the subject vessel. Additional sections may be added so that the frame can surround larger vessels. The extreme flexibility of the structure causes it to have less integral strength than some facilities which makes it unsuitable for more hazardous locations.

Physical Description: The facility is made up of eight (DD/F7-2A) rigid sections. These sections are connected to each other with flexible couplings. The work area is equipped with 42 (LF/5-B) high power light banks which are supported by duralloy cables throughout the superstructure. Attached to each light bank is an (SP/230-Z) positioning sensor for determining the exact location and positioning of the components for construction. Located at each joint is an (DI/200:TS) inertial dampener to help control the movement of the ship and components in the construction area.

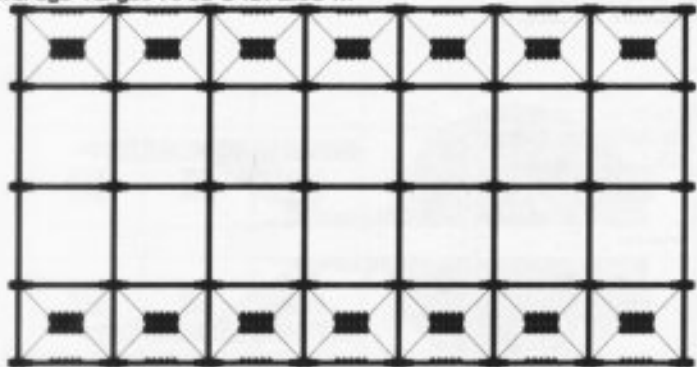
For additional detail refer to Datasheet MVDD-2

Class Emblem

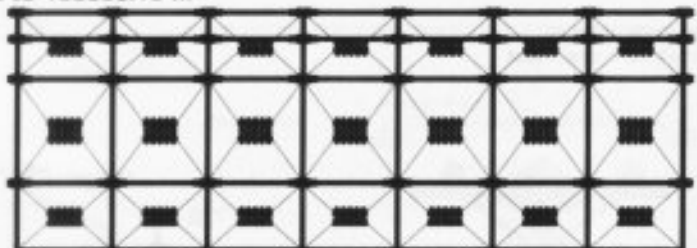


Facility Silhouettes

Total Target Area 194816.28 m²
Average Target Area 64872.09 m²



Top Silhouette
Area 108859.13 m²



Port Silhouette
Area 64815.46 m²



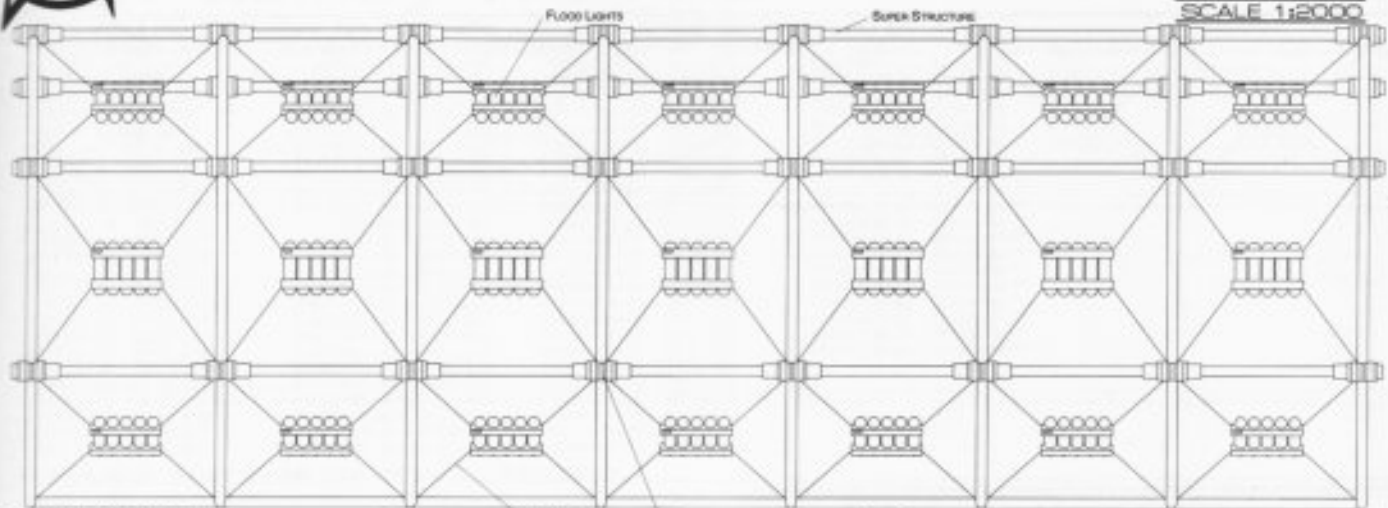
Front Silhouette
Area 1341.69 m²



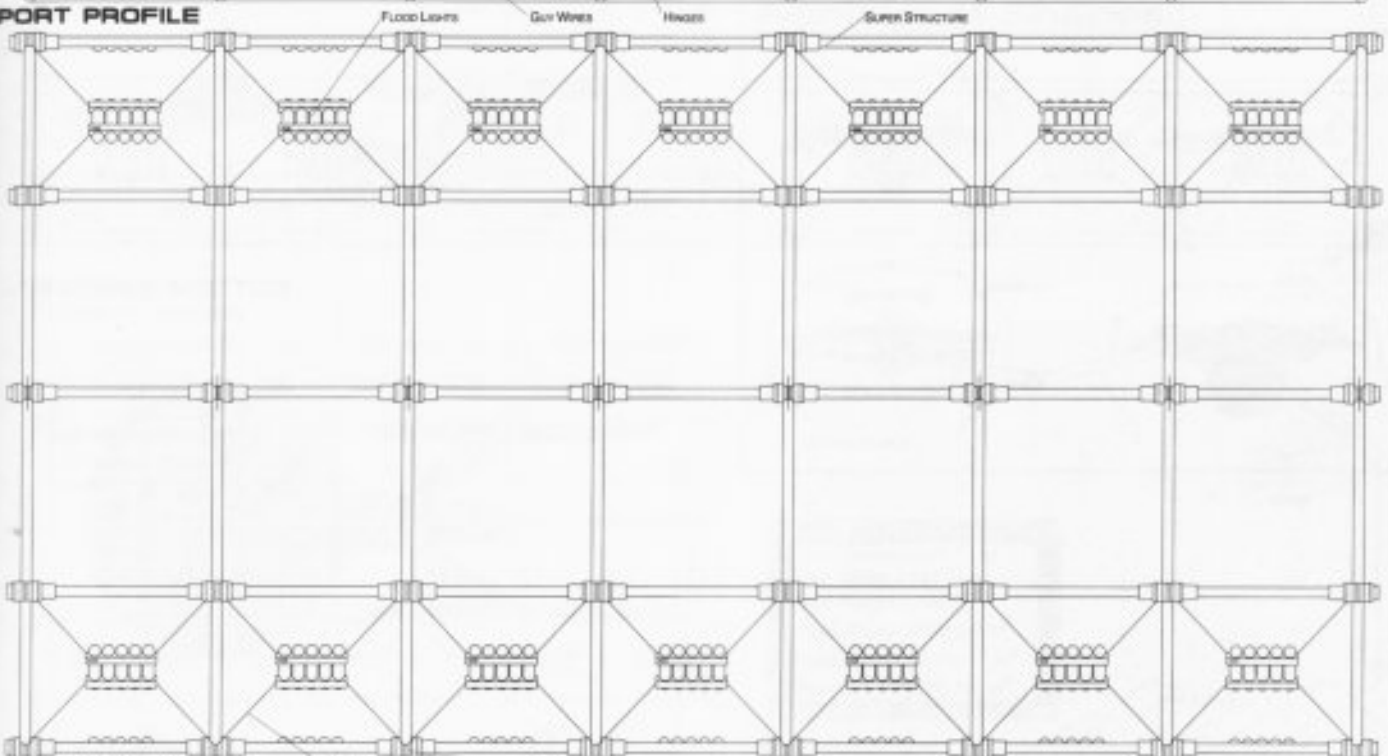
DRY DOCK TYPE II

METERS
0 10 20 30 40 50

SCALE 1:2000



PORT PROFILE



TOP PROFILE

Statistics

Classification: Dry Dock
Category: Type 2
Class: Pharaoh
Type: Class 4
Model: Type II
Naval Construction Contract: 200
Number Proposed: 94
Number Constructed: 83
Number in Service: 81
Number Lost: 2
Dimensions:
Overall Dimensions (Meters)
 Length: 362.52m
 Width: 183.11m
 Height: 127.01m
Displacement (Metric Tons)
 Light: 90,421mt
 Standard: 95,552mt
 Full Load: 101,283mt

Duration (Years)
 Standard: 20 Years
 Maximum: 40 Years
Std. Facility Complement: 0
 Officers: 0
 Crew (Ensign Grade): 0
 Emergency condition: 0
Medical Facilities:
 Doctors: 0
 Medical Staff: 0
 Operating Rooms: 0
 Beds: 0
Transporters Total: 0
 1 Person: 0
 2 Person: 0
 6 Person: 0
 12 Person: 0
 22 Person: 0
 Small Cargo: 0

Medium Cargo: 0
 Large Cargo: 0
 Super Cargo: 0
Replicators: 0
Major Tractor Beams: 0
 Tow Capacity: N/A
 Max Range: N/A
Minor Tractor Beams: 0
 Tow Capacity: N/A
 Max Range: N/A
Cargo Specification:
 Standard Cargo Units: 0
 Cargo Capacity: 0
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 0
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0

Shuttlecraft Standard: 0
 Work Bees: 0
 Tag Shuttle: 0
 Work Shuttle: 0
 Travel Pods: 0
 Light Shuttle: 0
 Standard Shuttle: 0
 Heavy Shuttle: 0
 Cargo Shuttle: 0
Lifeboats: 0
 Turbolift (8 person): 0
 Lifeboat (10 person): 0
 Lifeboat (20 person): 0
 Lifeboat (30 person): 0
Sensor Index Values:
 Alignment Sensor: 1.101
 Computers: 0
 Type: N/A

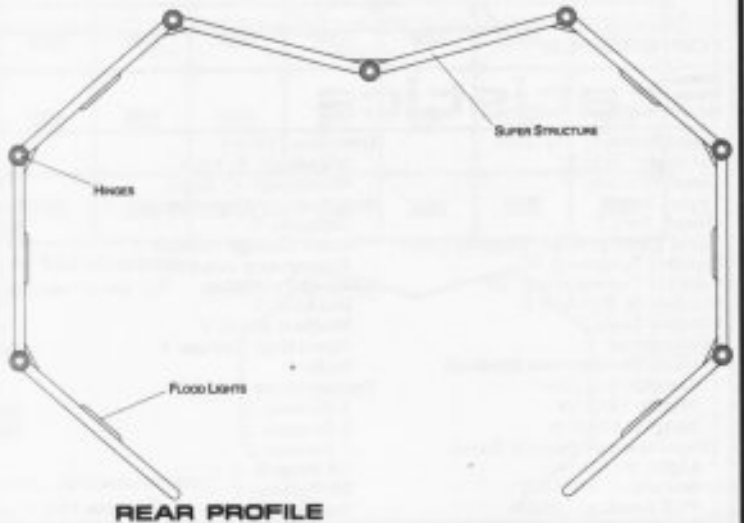
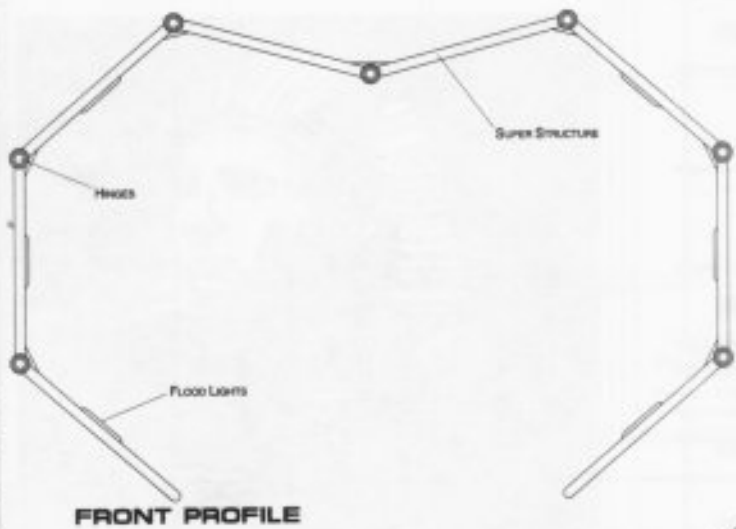
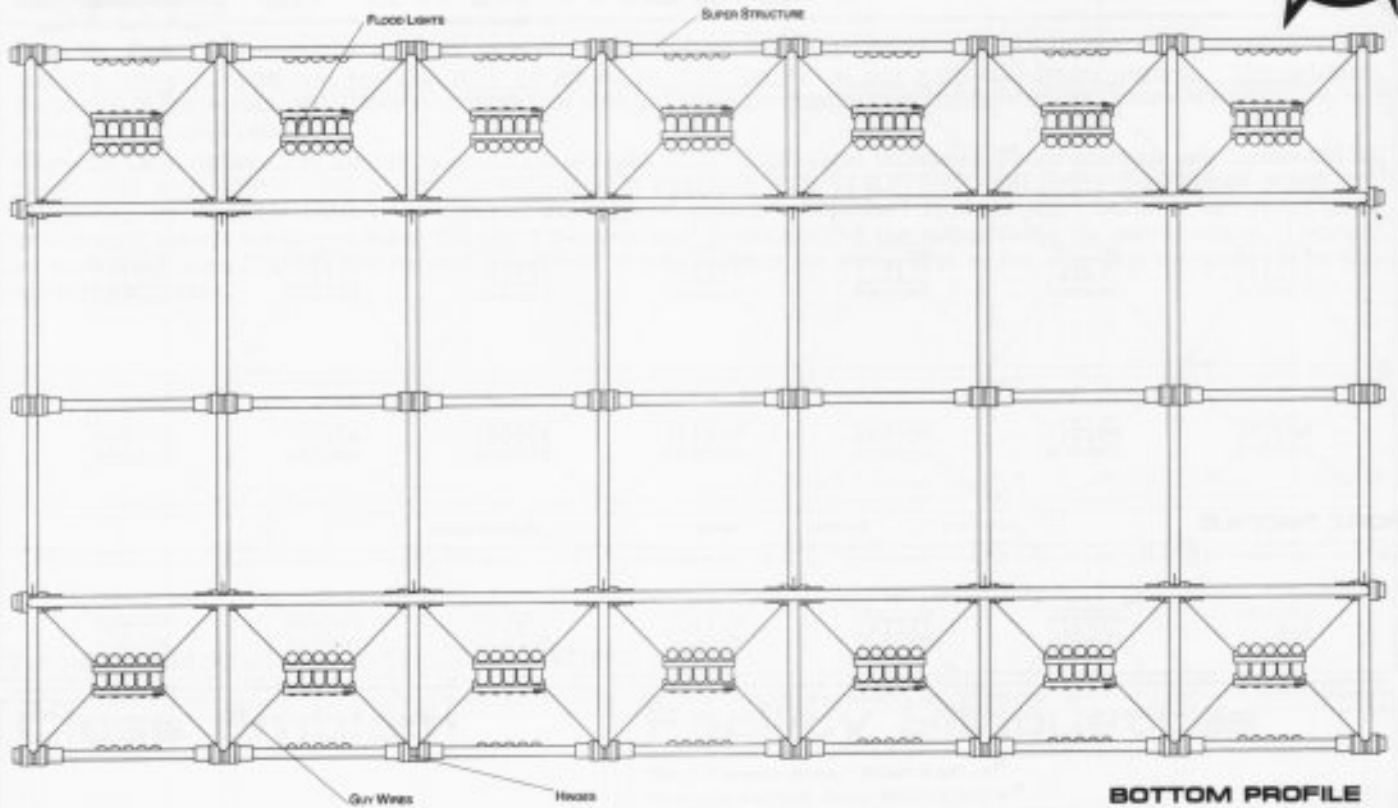
PHARAOH CLASS

FEDERATION FACILITY

DRY DOCK TYPE II



PHARAOH CLASS



METERS
0 10 20 30 40 50
SCALE 1:2000

FEDERATION FACILITY



DRY DOCK TYPE II

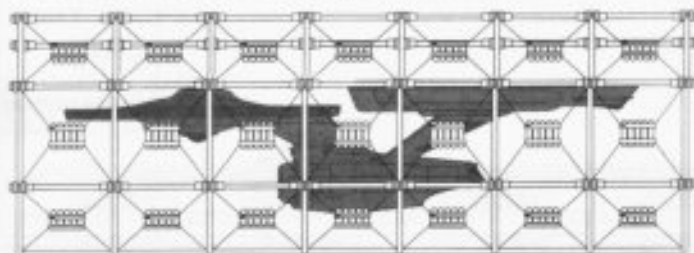
Facility Names

THE FOLLOWING SHIPS OF THE TYPE II CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2266.4

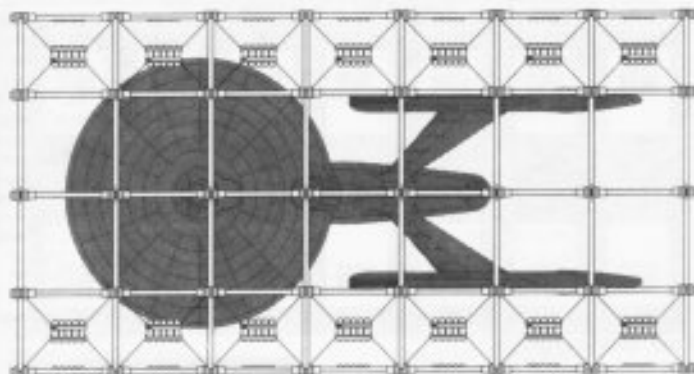
PHARAOH-1 • SFDD-200*	PHARAOH-25 • SFDD-225	PHARAOH-50 • SFDD-250	PHARAOH-75 • SFDD-275
PHARAOH-2 • SFDD-201	PHARAOH-26 • SFDD-226	PHARAOH-51 • SFDD-251	PHARAOH-76 • SFDD-276
PHARAOH-3 • SFDD-202	PHARAOH-27 • SFDD-227	PHARAOH-52 • SFDD-252	PHARAOH-77 • SFDD-277
PHARAOH-4 • SFDD-203	PHARAOH-28 • SFDD-228	PHARAOH-53 • SFDD-253	PHARAOH-78 • SFDD-278
PHARAOH-5 • SFDD-204	PHARAOH-29 • SFDD-229	PHARAOH-54 • SFDD-254	PHARAOH-79 • SFDD-279
PHARAOH-6 • SFDD-205	PHARAOH-30 • SFDD-230	PHARAOH-55 • SFDD-255	PHARAOH-80 • SFDD-280
PHARAOH-7 • SFDD-206	PHARAOH-31 • SFDD-231	PHARAOH-56 • SFDD-256	PHARAOH-81 • SFDD-281
PHARAOH-8 • SFDD-207	PHARAOH-32 • SFDD-232***	PHARAOH-57 • SFDD-257	PHARAOH-82 • SFDD-282
PHARAOH-9 • SFDD-208	PHARAOH-33 • SFDD-233	PHARAOH-58 • SFDD-258	PHARAOH-83 • SFDD-283***
PHARAOH-10 • SFDD-209	PHARAOH-34 • SFDD-234	PHARAOH-59 • SFDD-259	PHARAOH-84 • SFDD-284***
PHARAOH-11 • SFDD-210	PHARAOH-35 • SFDD-235	PHARAOH-60 • SFDD-260	PHARAOH-85 • SFDD-285***
PHARAOH-12 • SFDD-211	PHARAOH-36 • SFDD-236	PHARAOH-61 • SFDD-261	PHARAOH-86 • SFDD-286***
PHARAOH-13 • SFDD-212	PHARAOH-37 • SFDD-237	PHARAOH-62 • SFDD-262	PHARAOH-87 • SFDD-287***
PHARAOH-14 • SFDD-213	PHARAOH-38 • SFDD-238	PHARAOH-63 • SFDD-263	PHARAOH-88 • SFDD-288***
PHARAOH-15 • SFDD-214	PHARAOH-39 • SFDD-239	PHARAOH-64 • SFDD-264	PHARAOH-89 • SFDD-289***
PHARAOH-16 • SFDD-215**	PHARAOH-40 • SFDD-240	PHARAOH-65 • SFDD-265	PHARAOH-90 • SFDD-290**
PHARAOH-17 • SFDD-216	PHARAOH-41 • SFDD-241	PHARAOH-66 • SFDD-266	PHARAOH-91 • SFDD-291***
PHARAOH-18 • SFDD-217	PHARAOH-42 • SFDD-242	PHARAOH-67 • SFDD-267	PHARAOH-92 • SFDD-292***
PHARAOH-19 • SFDD-218	PHARAOH-43 • SFDD-243	PHARAOH-68 • SFDD-268	PHARAOH-93 • SFDD-293***
PHARAOH-20 • SFDD-219	PHARAOH-44 • SFDD-244	PHARAOH-69 • SFDD-269	
PHARAOH-21 • SFDD-220	PHARAOH-45 • SFDD-245	PHARAOH-70 • SFDD-270	
PHARAOH-22 • SFDD-221	PHARAOH-46 • SFDD-246	PHARAOH-71 • SFDD-271	
PHARAOH-23 • SFDD-222	PHARAOH-47 • SFDD-247	PHARAOH-72 • SFDD-272	
PHARAOH-24 • SFDD-223	PHARAOH-48 • SFDD-248	PHARAOH-73 • SFDD-273	
PHARAOH-25 • SFDD-224	PHARAOH-49 • SFDD-249	PHARAOH-74 • SFDD-274	

*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED.

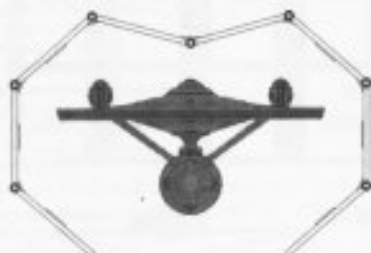
PHARAOH CLASS



SIDE PROFILE WITH HEAVY CRUISER

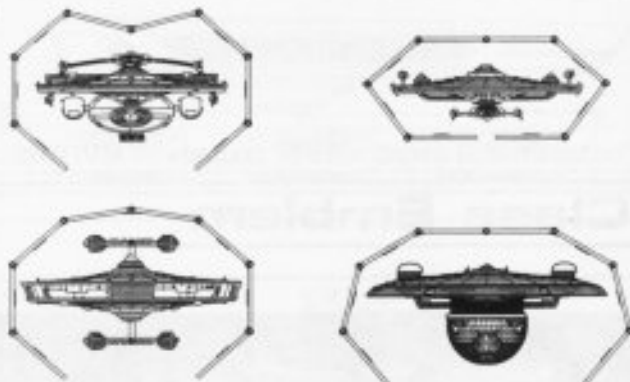


TOP PROFILE WITH HEAVY CRUISER



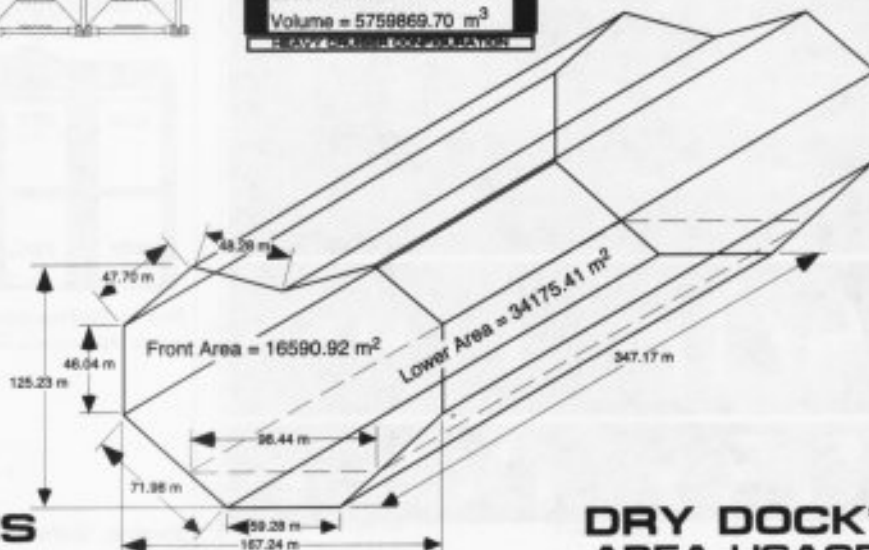
FRONT PROFILE WITH HEAVY CRUISER

Additional Shapes



WORK AREA DIMENSIONS

Max. Length = 347.17 m
 Max. Width = 167.24 m
 Max. Height = 125.23 m
 Front Area = 16590.92 m²
 Lower Area = 34175.41 m²
 Volume = 5759869.70 m³



*HEAVY CRUISER CONFIGURATION

DRY DOCK* AREA USAGE

DRY DOCK PROFILES WITH HEAVY CRUISER

SRMA-1 04:02:02:04

STARFLEET REFERENCE MANUAL

FEDERATION FACILITY

DRY DOCK TYPE III



General Information

Specific Role Mobile dry docks are useful for reaching disabled vessels in remote locations and setting up temporary repair facilities. The facilities were designed for use by the military as advanced repair bases. When not needed at remote locations the dock proceeds to a shipyard that is in need of additional facilities for repair work. The facility is very rigid which allows it to travel at warp speeds. For transportation the sides fold up under the center section.

Physical Description The facility is made up of five rigid sections. The five sections are hinged to each other which enables the facility to fold up during transportation. The center section houses the main components of the starship/drydock. The center section is equipped with the (BS10/F-T1) bridge. On the lower part of the center section is the (SM49/2J) main sensor array and (DN1/2-B) navigation dome. The work area is equipped with 42 (LF/5-B) high power light banks located in six rows of seven banks. These light banks are supported by duralloy support cables. Located on the forward spine of the center section is the hangar deck. On the underside of the center section are 14 (DI/200-TS) inertial dampeners to help control the movement of the ship and parts that are used in construction. Incorporated into the main sensor is a (SP/230-Z) positioning sensor for determining the exact location and positioning of the parts used for construction. To the rear of the center section are the (IP186E/2-IR) dual impulse units which are used for auxiliary power and sub-warp propulsion. The craft is propelled at warp by a single (SW52/1-5RT) warp nacelle located above and to the rear of the center section. The warp nacelle is attached to the center section by a (DU/48-45Y) connecting dorsal. Inside the dorsal is the (M20/10-1C) intermix chamber and (AM8/18-2B) matter/antimatter storage tanks. The matter/antimatter storage tanks are positioned to the rear of the connecting dorsal for emergency jettisoning.

For additional detail refer to Datasheet MVDD-3

Class Emblem



AZTEC CLASS

DRY DOCK

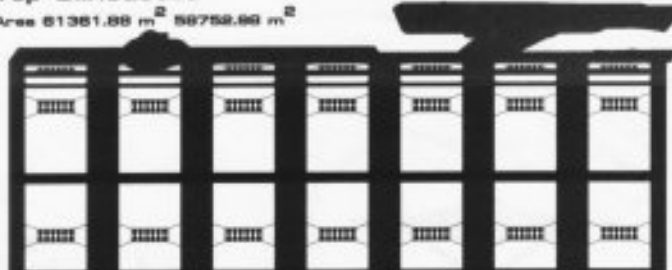
Ship Silhouettes

Total Target Area 134886.08 m² 71476.56 m²
Average Target Area 44955.36 m² 23825.52 m²



Top Silhouette

Area 61361.88 m² 59752.99 m²

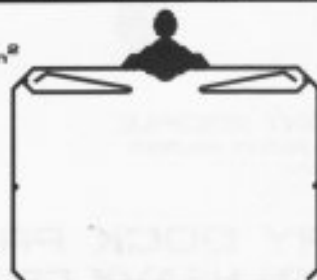


Port Silhouette

Area 72048.54 m² 11267.59 m²

Front Silhouette

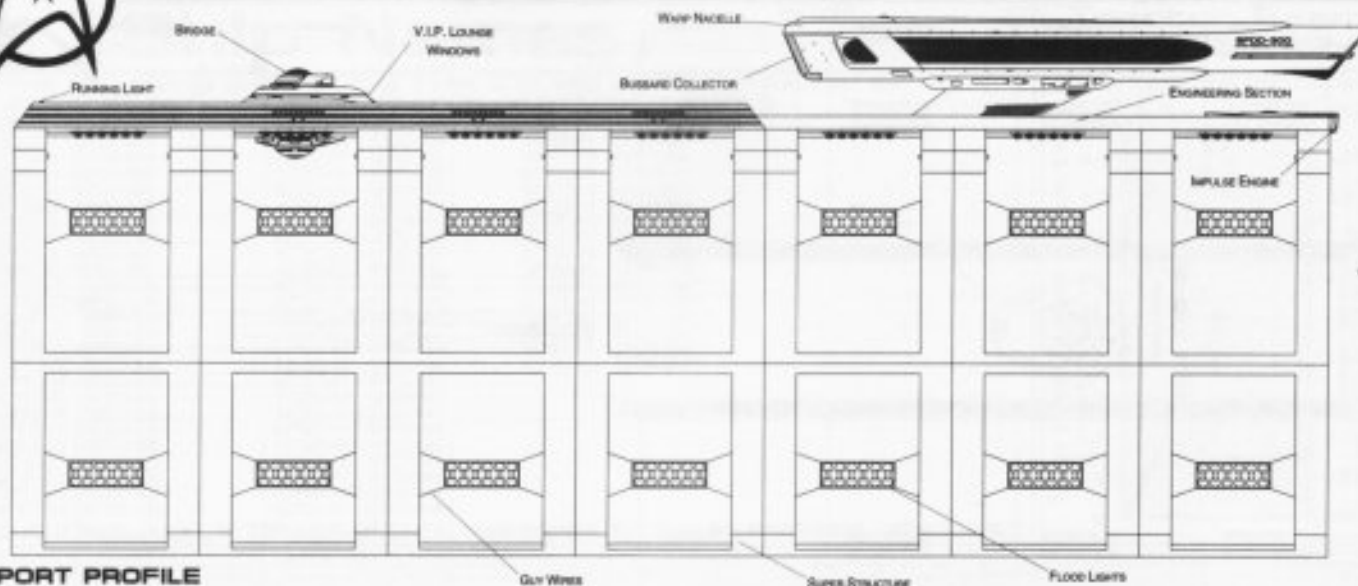
Area 1455.66 m² 1455.99 m²





DRY DOCK TYPE III

AZTEC CLASS



PORT PROFILE



PORT PROFILE (Collapsed)

Statistics

Classification: Support Ship
Category: Dry Dock
Class: Aztec
Type: Class 2
Model: Type III
Naval Construction Contract: 300
Number Proposed: 66
Number Constructed: 58
Number in Service: 56
Number Lost: 2
Dimensions:
Overall Dimensions (Meters)
 Length: 357.99m
 Width: 163.18/152.31m
 Height: 134.24/44.61m
Super Structure Dimensions (Meters)
 Length: 347.7m
 Width: 163.18/152.31m
 Height: 131.08/32.35m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 163.61m
 Width: 12.93m
 Height: 17.94m
Displacement (Metric Tons)
 Light: 210,516mt
 Standard: 250,938mt
 Full Load: 270,450mt
Performance:
Impulse Units: Dual Unit (IRF35E/3-G8)
Impulse Engine Output: 7.8x10¹³ W
Impulse Power Index: 1.068
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.187 sec.
 0.25-0.50 Impulse: 0.281 sec.
 0.50-0.75 Impulse: 0.374 sec.
 0.75-Full Impulse: 0.468 sec.
Warp Units: 1 Nacelle Units (BWS2/1-5AC)
Warp Engine Output: 6x10¹⁴ W
Warp Power Index: 1.07

Optimum Speed: Warp 3
Max. Safe Cruising: Warp 5
Emergency Speed: Warp 6
Max. Speed: Warp 7.25
Destructive Speed: Warp 7.5
Acceleration Power: 3.0
Acceleration Times:
 Warp 1 - Warp 2: 0.748 sec.
 Warp 2 - Warp 3: 1.200 sec.
 Warp 3 - Warp 4: 4.532 sec.
 Warp 4 - Warp 5: 6.516 sec.
 Warp 5 - Warp 6: 6.964 sec.
 Warp 6 - Warp 7: 11.528 sec.
 Warp 7 - Warp 8: 8.580 sec.
 Warp 8 - Warp 9: N/A
 Warp 9 - Warp 9.5: N/A
 Warp 9.5 - Warp 9.75: N/A
 Warp 9.75 - Warp 9.9: N/A
Duration (Years)
 Standard: 7 Years
 Maximum: 30 Years
Std. Ship Complement: 200
 Officers: 20
 Crew (Ensign Grade): 180
 Troops: 0
 Passengers: 0
 Emergency condition: +200
Medical Facilities:
 Doctors: 3
 Medical Staff: 16
 Operating Rooms: 2
 Beds: 16
Laboratories: 0
Transporters Total: 10
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 0
 Small Cargo: 2
 Medium Cargo: 2
 Large Cargo: 2
 Super Cargo: 0

Brigs: 3
Replicators: 14
Tractor Beams: 1
 Tow Capacity: 3.74x10⁶mt
 Max Range: 9.00x10⁴km
Cargo Specification:
 Standard Cargo Units: 100
 Cargo Capacity: 5,000mt
Shuttlecraft Specifications:
 Docking Ports: 1
 Shuttlecraft Bays Total: 1
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 1
 Super Bay: 0
 Shuttlecraft Standard: 17
 Work Bees: 20
 Travel Pods: 5
 Aquatic Shuttle: 0
 Light Shuttle: 3
 Standard Shuttle: 8
 Heavy Shuttle: 1
 Cargo Shuttle: 6
 Assault Shuttle: 0
 Killer Bees: 0
 Fighter: 0
 Heavy Fighter: 0
 Lifeboats: 14
 TurboLift (8 person): 4
 Lifeboat (10 person): 10
 Lifeboat (20 person): 5
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.423
 Stellar Survey: 0.997
 Short Range: 0.875
 Long Range: 0.855
 Navigation: 0.879
 Special: 1.521
Computers: 2
 Type: Daystrom Duotronic IIIr
 Type: Daystrom Duotronic IIz

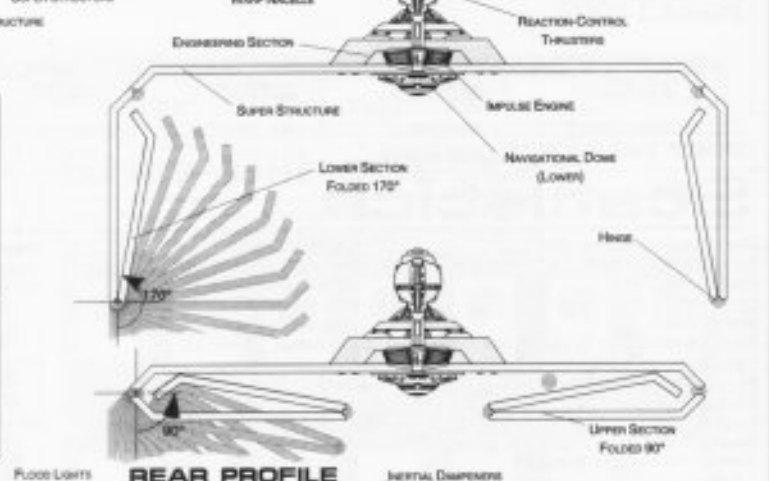
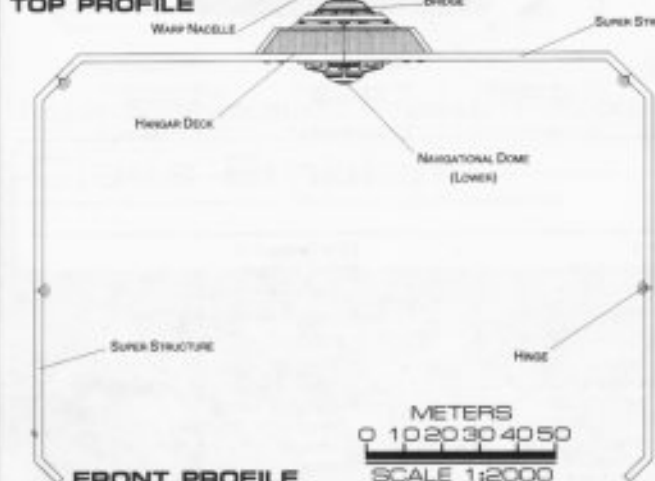
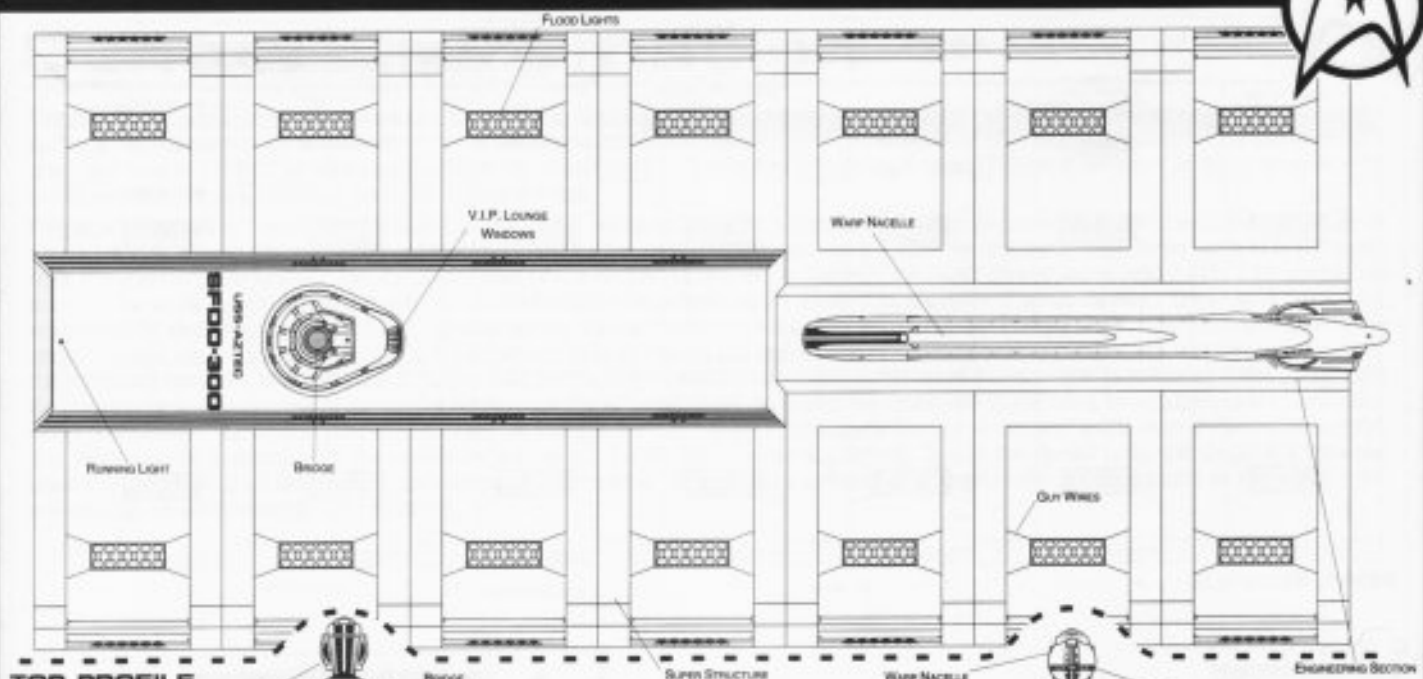
ECM Index: 0.51
Shield Rating:
 Shield Index: 0.61
 Holdoff Power: 3.46x10¹² W
 Refresh Rate: 9.84x10¹¹ W
 Breakdown Rate: 1.18x10¹² W
Shield Dimensions (Meters)
 Length: 426.43m
 Width: 172.64/56.88m
 Height: 195.94/53.16m
Weapons:
Phaser Power Index: 0.0
Photon Power Index: 0.0
Vessel Power Index: 0.0
Weapon Placement:
 Beam (Phasers) Total: N/A
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward Banks: 0
 Rear Banks: 0
 Port Banks: 0
 Starboard Banks: 0
 Upper Banks: 0
 Lower Banks: 0
 Beam (MegaPhasers) Total: N/A
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Torpedoes (Photon) Total: N/A
 Stock: N/A
 Range: N/A
 Output: N/A
 Rate of Fire: N/A
 Forward Bay: 0
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

FEDERATION VESSEL

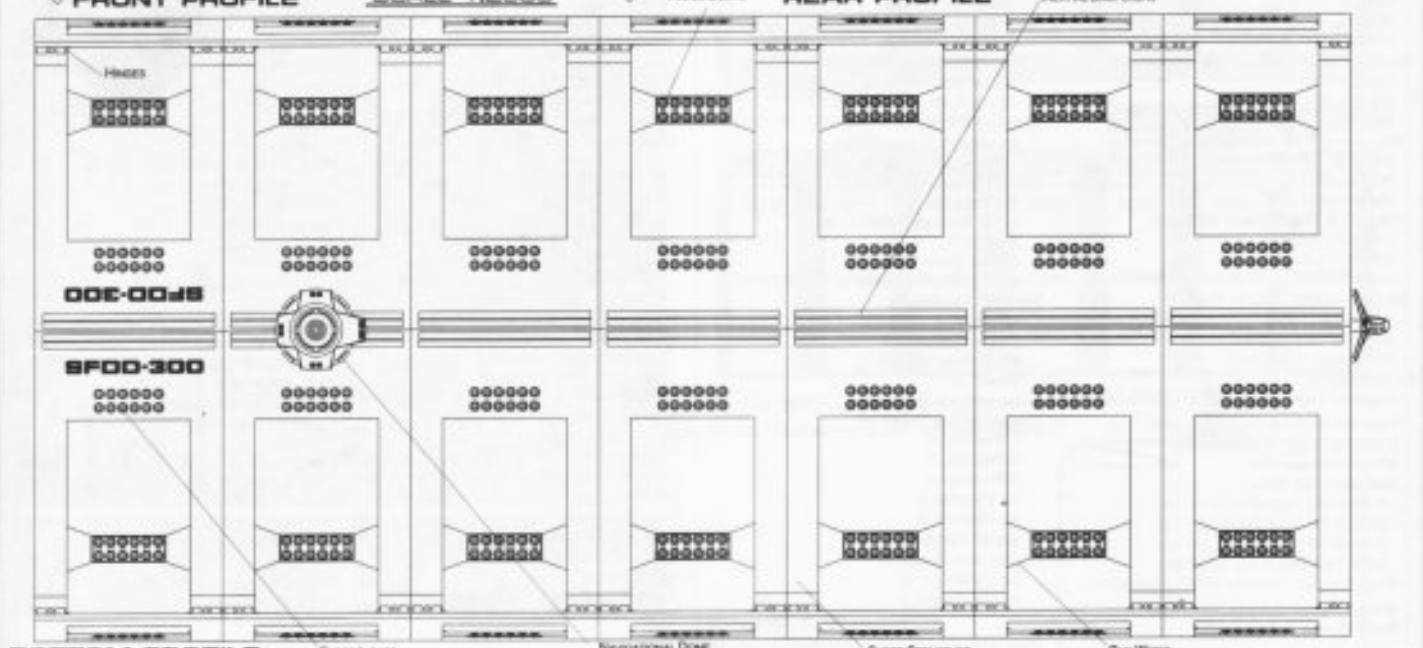
DRY DOCK TYPE III



AZTEC CLASS



METERS
0 10 20 30 40 50
SCALE 1:2000



FEDERATION VESSEL



DRY DOCK TYPE III

Ship Names

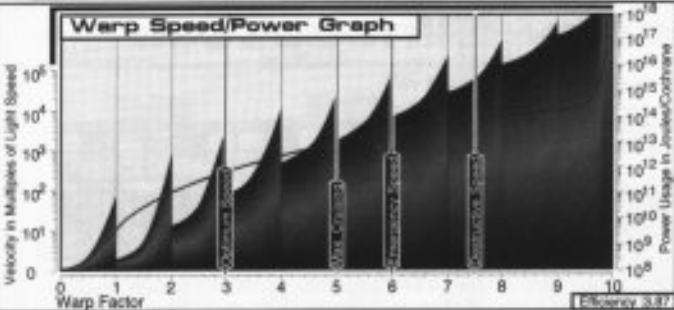
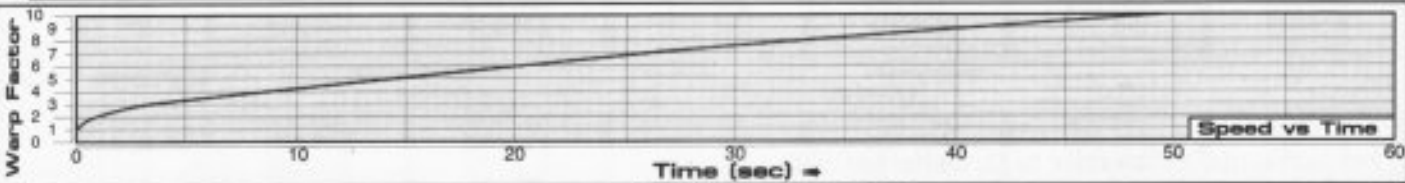
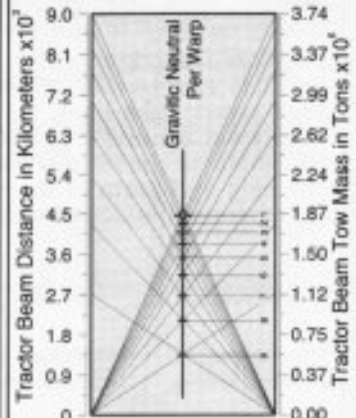
THE FOLLOWING SHIPS OF THE TYPE III CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2272.3

AZTEC-1 • SFDD-300*	AZTEC-25 • SFDD-325	AZTEC-50 • SFDD-350
AZTEC-2 • SFDD-301	AZTEC-26 • SFDD-326	AZTEC-51 • SFDD-351**
AZTEC-3 • SFDD-302	AZTEC-27 • SFDD-327	AZTEC-52 • SFDD-352
AZTEC-4 • SFDD-303	AZTEC-28 • SFDD-328	AZTEC-53 • SFDD-353
AZTEC-5 • SFDD-304	AZTEC-29 • SFDD-329	AZTEC-54 • SFDD-354
AZTEC-6 • SFDD-305	AZTEC-30 • SFDD-330	AZTEC-55 • SFDD-355
AZTEC-7 • SFDD-306	AZTEC-31 • SFDD-331	AZTEC-56 • SFDD-356
AZTEC-8 • SFDD-307	AZTEC-32 • SFDD-332	AZTEC-57 • SFDD-357
AZTEC-9 • SFDD-308	AZTEC-33 • SFDD-333	AZTEC-58 • SFDD-358***
AZTEC-10 • SFDD-309	AZTEC-34 • SFDD-334	AZTEC-59 • SFDD-359***
AZTEC-11 • SFDD-310	AZTEC-35 • SFDD-335	AZTEC-60 • SFDD-360***
AZTEC-12 • SFDD-311	AZTEC-36 • SFDD-336	AZTEC-61 • SFDD-361***
AZTEC-13 • SFDD-312	AZTEC-37 • SFDD-337	AZTEC-62 • SFDD-362***
AZTEC-14 • SFDD-313	AZTEC-38 • SFDD-338	AZTEC-63 • SFDD-363***
AZTEC-15 • SFDD-314	AZTEC-39 • SFDD-339	AZTEC-64 • SFDD-364***
AZTEC-16 • SFDD-315	AZTEC-40 • SFDD-340	AZTEC-65 • SFDD-365***
AZTEC-17 • SFDD-316	AZTEC-41 • SFDD-341	
AZTEC-18 • SFDD-317	AZTEC-42 • SFDD-342	
AZTEC-19 • SFDD-318	AZTEC-43 • SFDD-343	
AZTEC-20 • SFDD-319	AZTEC-44 • SFDD-344	
AZTEC-21 • SFDD-320	AZTEC-45 • SFDD-345	
AZTEC-22 • SFDD-321	AZTEC-46 • SFDD-346	
AZTEC-23 • SFDD-322	AZTEC-47 • SFDD-347	
AZTEC-24 • SFDD-323**	AZTEC-48 • SFDD-348	
AZTEC-25 • SFDD-324	AZTEC-49 • SFDD-349	

*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



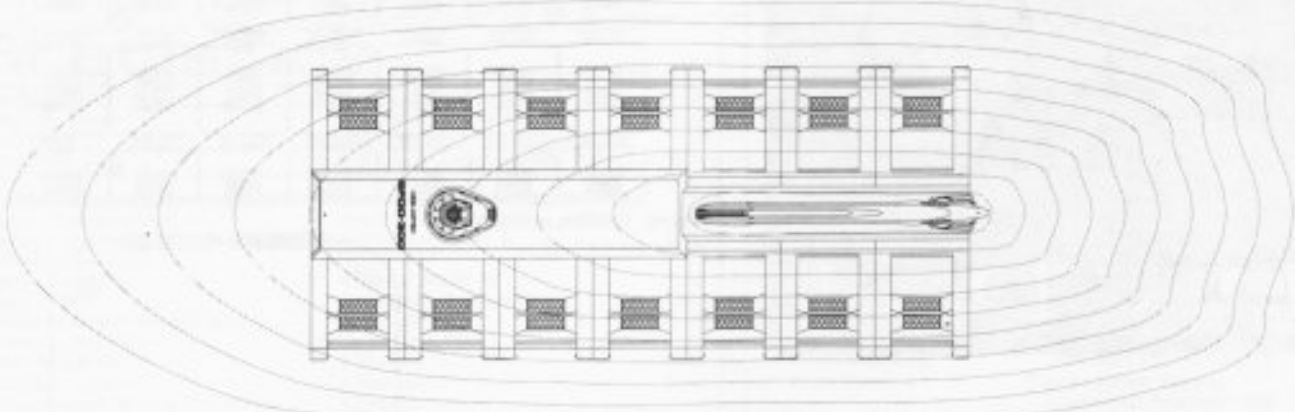
Field Length 879.45m
Field Width 221.22m
Field Height 71.04m



Front Warp Field Profile
Cross Section Area 12265.95 m²



Port Warp Field Profile
Cross Section Area 34955.68 m²



Top Warp Field Profile
Cross Section Area 130379.13 m²

AZTEC CLASS

FEDERATION VESSEL

DRY DOCK TYPE IV

General Information



Specific Role: The Dry Dock Type IV is the replacement for the aging Type I. The Type IV is an extremely modular facility designed to be expanded to include repair and construction jobs as large as space stations.

Physical Description: The facility is made up of 14 (DD/M2-2S) modular side sections, 28 (DD/M2-3C) curved sections and 14 (DH/60-82C) hangar/storage sections. Each modular section is equipped with a (LF/2-C) dual, high power light bank for a total of 56 units. These light banks are supported by bars and duralloy cables. Additional lighting is provided by (MLF/43-A) adjustable floodlights that can be positioned as needed. Along the underside of the hangar/storage facility are the 120 (DI/148:AD) inertial dampeners to help control movement of the ship and parts in the construction area. Located on each light bank is a (SP/230-Z) positioning sensors for determining the exact location and positioning of the parts used for construction.

For additional detail refer to Datasheet MVDD-4

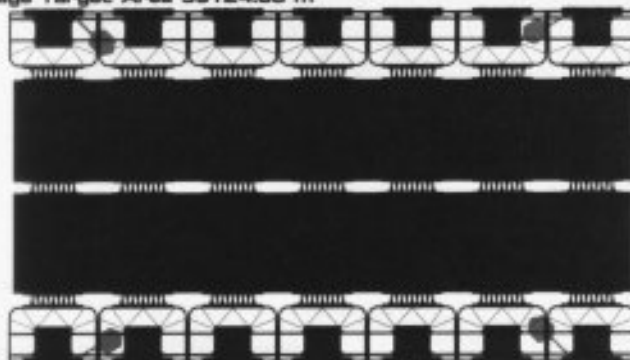
Class Emblem



Facility Silhouettes

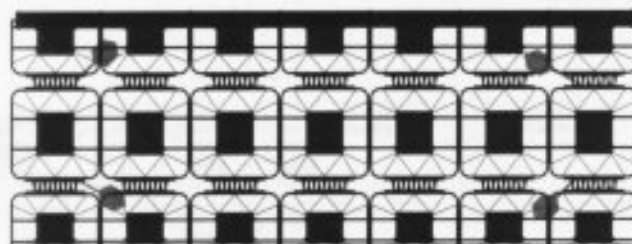
Total Target Area 177374.03 m²

Average Target Area 59124.88 m²



Top Silhouette

Area 94324.24 m²



Port Silhouette

Area 91147.88 m²



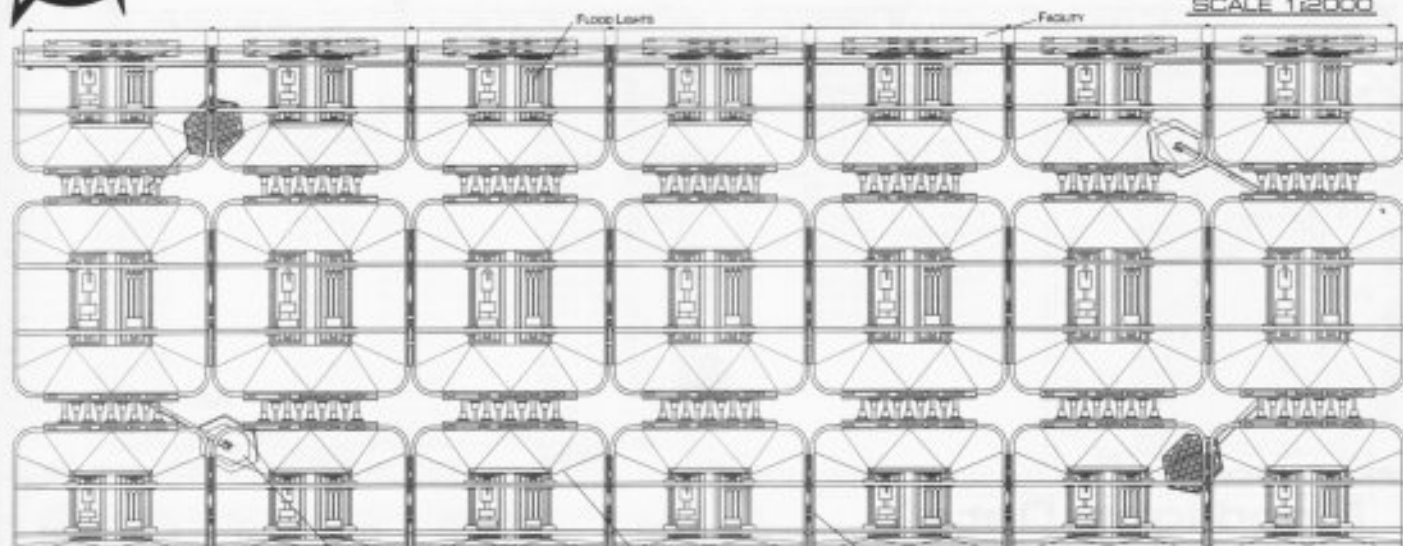
Front Silhouette

Area 1802.13 m²

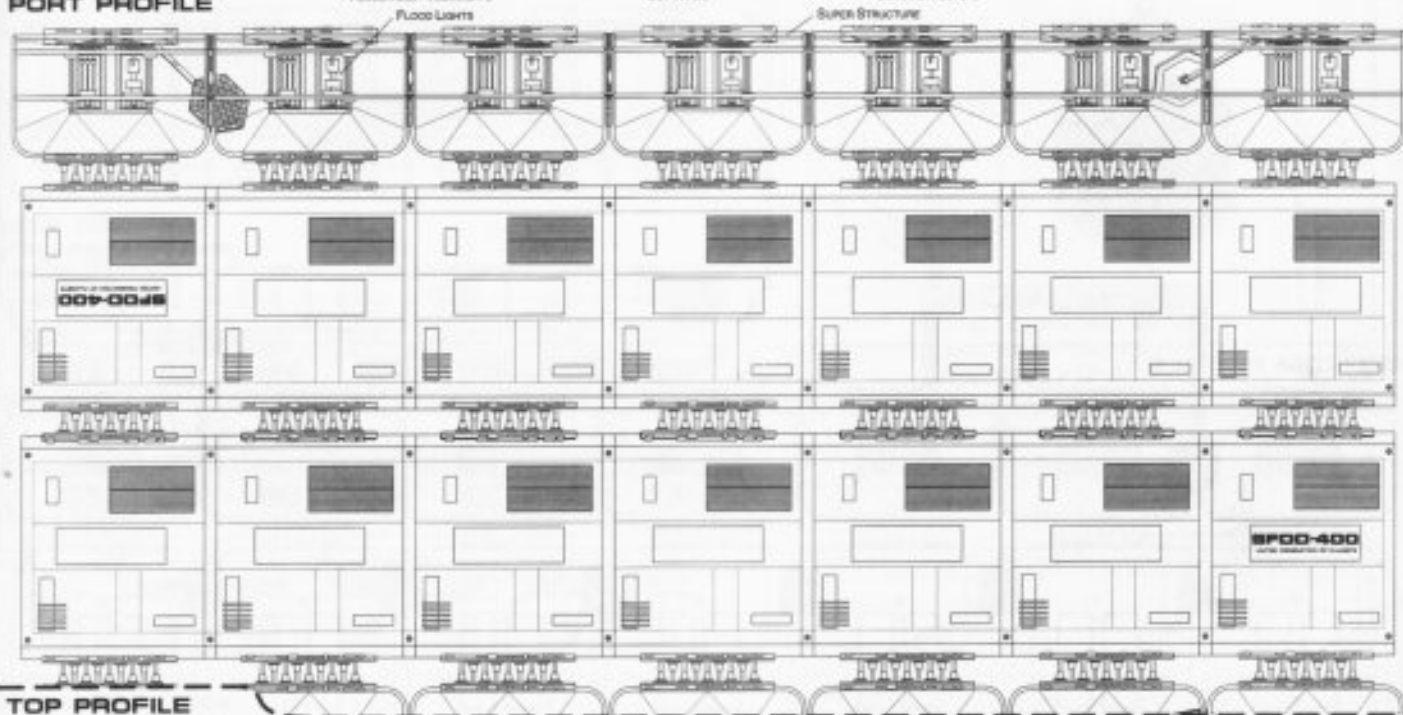


DRY DOCK TYPE IV

METERS
0 10 20 30 40 50
SCALE 1:2000



PORT PROFILE



TOP PROFILE

Statistics

Classification: Dry Dock
Category: Type 4
Class: Maya
Type: Class 4
Model: Type IV
Naval Construction Contract: 400
Number Proposed: 92
Number Constructed: 34
Number in Service: 34
Number Lost: 0
Dimensions:
Overall Dimensions (Meters)
 Length: 368.37m
 Width: 208.58m
 Height: 138.32m
Displacement (Metric Tons)
 Light: 260,487mt
 Standard: 280,587mt
 Full Load: 340,450mt

Duration (Years)
 Standard: 20 Years
 Maximum: 40 Years
Std. Facility Complement: 300
 Officers: 40
 Crew (Ensign Grade): 260
 Emergency condition: +400
Medical Facilities:
 Doctors: 4
 Medical Staff: 16
 Operating Rooms: 3
 Beds: 20
Transporters Total: 11
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 0
 Small Cargo: 2

Medium Cargo: 2
Large Cargo: 2
Super Cargo: 1
Replicators: 20
Major Tractor Beams: 1
 Tow Capacity: 3.74x106mt
 Max Range: 9.00x104km
Minor Tractor Beams: 1
 Tow Capacity: 1.90x106mt
 Max Range: 4.70x104km
Cargo Specification:
 Standard Cargo Units: 200
 Cargo Capacity: 10,000mt
Shuttlecraft Specifications:
 Shuttlecraft Bays Total: 4
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 4
 Super Bay: 0

Shuttlecraft Standard: 110
Work Bees: 40
Tug Shuttle: 12
Work Shuttle: 20
Travel Pods: 10
Light Shuttle: 4
Standard Shuttle: 6
Heavy Shuttle: 3
Cargo Shuttle: 15
Lifeboats: 10
 Turbolift (8 person): 4
 Lifeboat (10 person): 0
 Lifeboat (20 person): 6
 Lifeboat (30 person): 0
Sensor Index Values:
 Alignment Sensor: 1.599
Computers: 2
 Type: Daystrom Duotronic II-g
 Type: Daystrom Duotronic I-u

MAYA CLASS

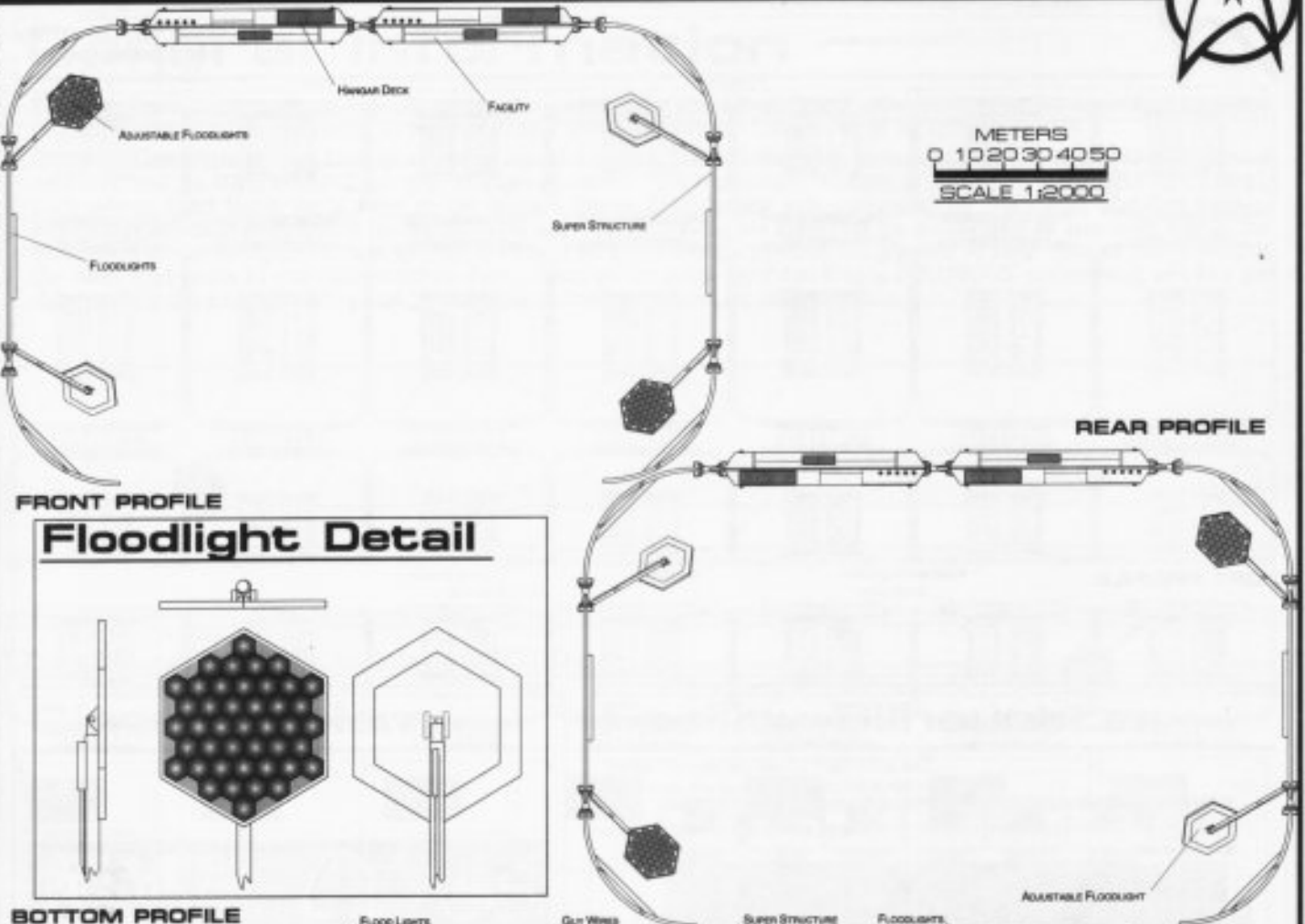
FEDERATION FACILITY

DRY DOCK TYPE IV



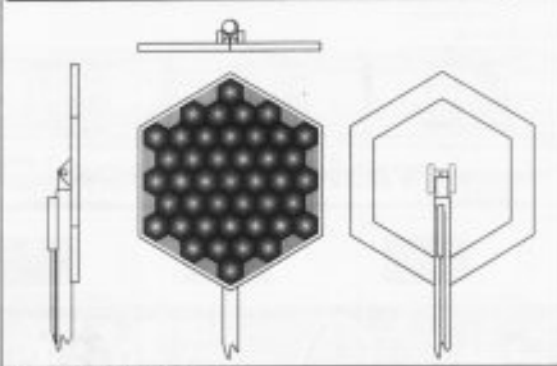
MAYA CLASS

METERS
0 10 20 30 40 50
SCALE 1:2000

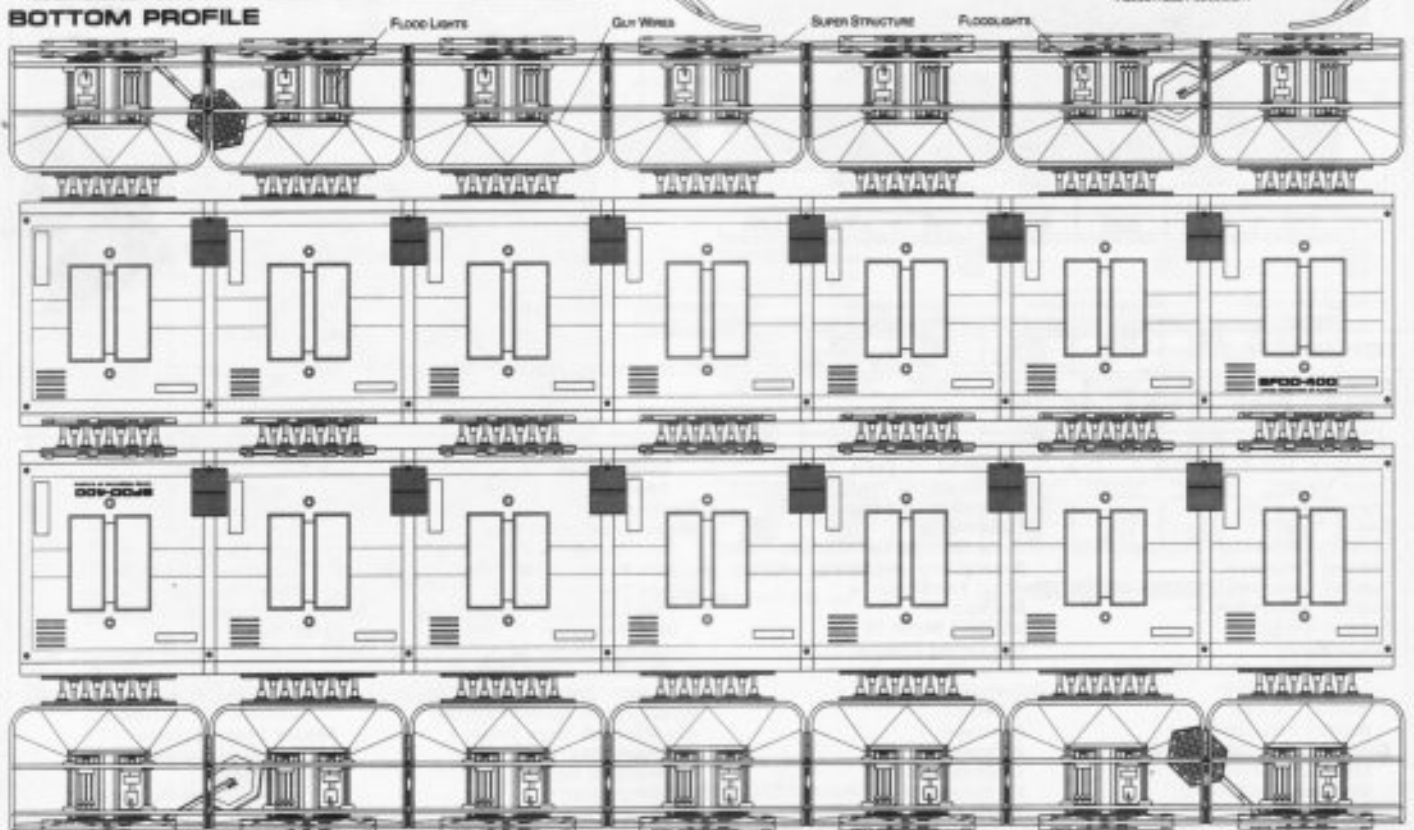


FRONT PROFILE

Floodlight Detail



BOTTOM PROFILE



FEDERATION FACILITY

DRY DOCK TYPE IV



Facility Names

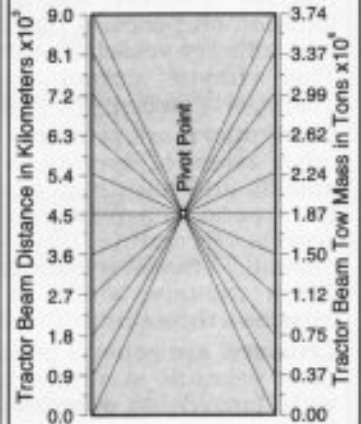
THE FOLLOWING SHIPS OF THE TYPE IV CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2265.5

MAYA-0 - SFDD-400*	MAYA-25 - SFDD-425	MAYA-50 - SFDD-450***	MAYA-75 - SFDD-475***
MAYA-1 - SFDD-401	MAYA-26 - SFDD-426	MAYA-51 - SFDD-451***	MAYA-76 - SFDD-476***
MAYA-2 - SFDD-402	MAYA-27 - SFDD-427	MAYA-52 - SFDD-452***	MAYA-77 - SFDD-477***
MAYA-3 - SFDD-403	MAYA-28 - SFDD-428	MAYA-53 - SFDD-453***	MAYA-78 - SFDD-478***
MAYA-4 - SFDD-404	MAYA-29 - SFDD-429	MAYA-54 - SFDD-454***	MAYA-79 - SFDD-479***
MAYA-5 - SFDD-405	MAYA-30 - SFDD-430	MAYA-55 - SFDD-455***	MAYA-80 - SFDD-480***
MAYA-6 - SFDD-406	MAYA-31 - SFDD-431	MAYA-56 - SFDD-456***	MAYA-81 - SFDD-481***
MAYA-7 - SFDD-407	MAYA-32 - SFDD-432	MAYA-57 - SFDD-457***	MAYA-82 - SFDD-482***
MAYA-8 - SFDD-408	MAYA-33 - SFDD-433	MAYA-58 - SFDD-458***	MAYA-83 - SFDD-483***
MAYA-9 - SFDD-409	MAYA-34 - SFDD-434***	MAYA-59 - SFDD-459***	MAYA-84 - SFDD-484***
MAYA-10 - SFDD-410	MAYA-35 - SFDD-435***	MAYA-60 - SFDD-460***	MAYA-85 - SFDD-485***
MAYA-11 - SFDD-411	MAYA-36 - SFDD-436***	MAYA-61 - SFDD-461***	MAYA-86 - SFDD-486***
MAYA-12 - SFDD-412	MAYA-37 - SFDD-437***	MAYA-62 - SFDD-462***	MAYA-87 - SFDD-487***
MAYA-13 - SFDD-413	MAYA-38 - SFDD-438***	MAYA-63 - SFDD-463***	MAYA-88 - SFDD-488***
MAYA-14 - SFDD-414	MAYA-39 - SFDD-439***	MAYA-64 - SFDD-464***	MAYA-89 - SFDD-489***
MAYA-15 - SFDD-415	MAYA-40 - SFDD-440***	MAYA-65 - SFDD-465***	MAYA-90 - SFDD-490***
MAYA-16 - SFDD-416	MAYA-41 - SFDD-441***	MAYA-66 - SFDD-466***	MAYA-91 - SFDD-491***
MAYA-17 - SFDD-417	MAYA-42 - SFDD-442***	MAYA-67 - SFDD-467***	
MAYA-18 - SFDD-418	MAYA-43 - SFDD-443***	MAYA-68 - SFDD-468***	
MAYA-19 - SFDD-419	MAYA-44 - SFDD-444***	MAYA-69 - SFDD-469***	
MAYA-20 - SFDD-420	MAYA-45 - SFDD-445***	MAYA-70 - SFDD-470***	
MAYA-21 - SFDD-421	MAYA-46 - SFDD-446***	MAYA-71 - SFDD-471***	
MAYA-22 - SFDD-422	MAYA-47 - SFDD-447***	MAYA-72 - SFDD-472***	
MAYA-23 - SFDD-423	MAYA-48 - SFDD-448***	MAYA-73 - SFDD-473***	
MAYA-24 - SFDD-424	MAYA-49 - SFDD-449***	MAYA-74 - SFDD-474***	

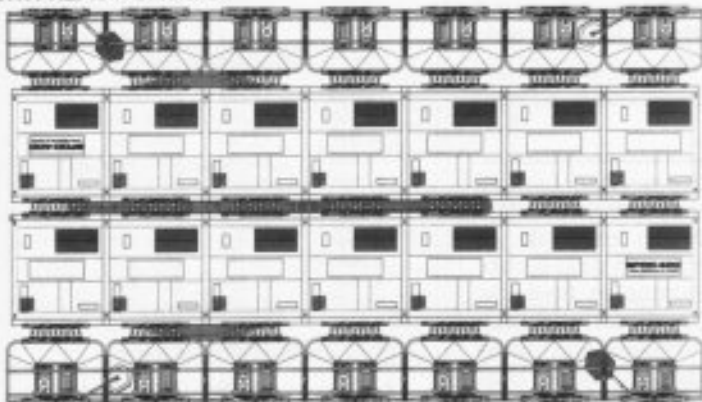
*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED.

Tractor Beam Specifications

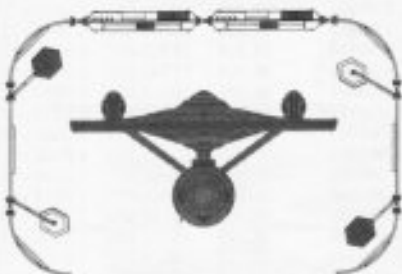
Primary Tractor Beam Load Calculator



SIDE PROFILE WITH HEAVY CRUISER



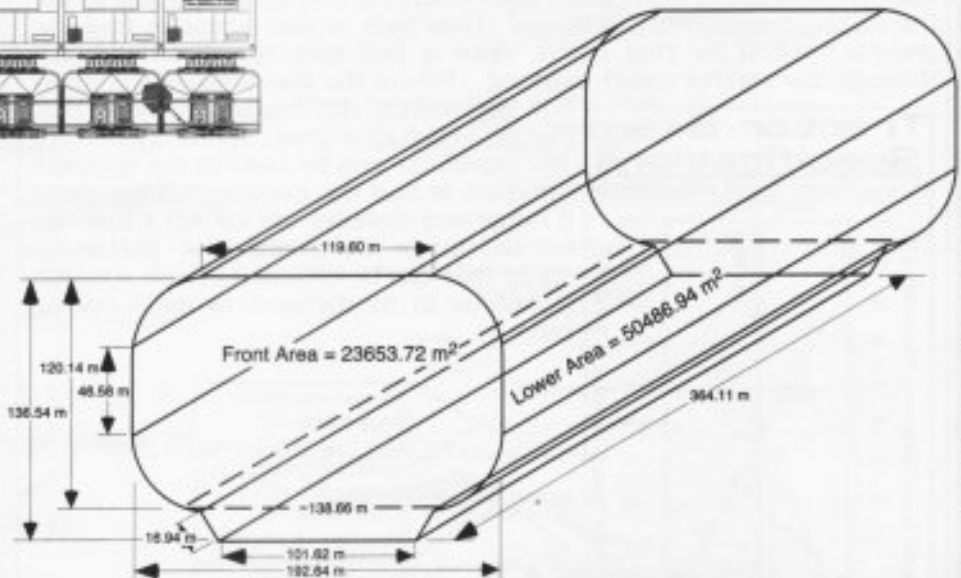
TOP PROFILE WITH HEAVY CRUISER



FRONT PROFILE WITH HEAVY CRUISER

WORK AREA DIMENSIONS

Max. Length = 364.11 m
 Max. Width = 192.64 m
 Max. Height = 136.54 m
 Front Area = 23653.77 m²
 Lower Area = 50486.94 m²
 Volume = 8612461.37 m³



DRY DOCK PROFILES WITH HEAVY CRUISER

SRMA-1 04:02:04:04

DRY DOCK AREA USAGE

STARFLEET REFERENCE MANUAL

MAYA CLASS

FEDERATION FACILITY

STARSHIPS



GENERAL INFORMATION

General Information

Starfleet is responsible for the protection and exploration of the vast reaches of known and unknown space. Although the Federation is founded on peace, it has learned that a wide variety of both peacetime and military vessels is required to protect and support the Federation. This chapter covers these ships: Destroyers, Cruisers, Frigates, Transport/Tugs and Containers.

Destroyers are primarily designed for defense, but also support many other types of operations. They are equipped with heavy weapons, shields and have high power utilization curves. The destroyer is able to respond to a variety of crises and counteract many types of enemy vessels. By nature, Destroyers are especially competent in ship to ship combat. Several versions are required to meet specific missions. When military action is not required, they are used for support missions throughout the Federation.

Cruisers are general purpose vessels. Cruisers have proven to be the most versatile starships in the Federation. All cruisers are equipped with formidable weapons, extensive sensors and complex research laboratories.

Frigates are used to transport troops and fighters to areas in conflict such as the Neutral Zone border. The frigate is primarily used for planetary assault and fleet support operations. When military action is not required, the vessels are used for support missions throughout the Federation. Various versions are designed to meet specific missions.

Transport/Tugs are modular transport vessels. This modular design allows the ships to carry a multitude of containers in various configurations. The Transport/Tugs are the backbone of federation expansion and are extremely reliable. If a Transport/Tug of any size is more than one hour over-due without communication, a heavily armed vessel is sent out to discern its where-a-bouts.

Containers are available in both standard and customized configurations to fit specific needs. They carry everything from people to liquids, and some containers are equipped for military use as well.

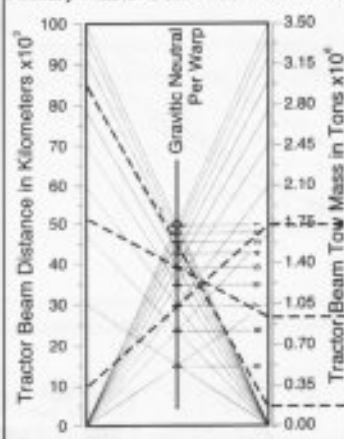
Tractor Beam

To use the Tractor Beam Load Calculator determine the needed factors such as distance, speed and weight. To use the calculator you must have at least two of these factors known. Here is an example, if distance and speed are known, start at the right of the graph and locate the distance mark for the range. Then look to the center to find the gravitic neutral for that speed, draw a line from the distance mark through the correct speed marking. Where the line crosses the mass

line determines the maximum mass that can be towed at a given speed and range. The calculator can be used in the opposite direction to find the maximum distance or if range and distance are known a line can be drawn to determine the maximum speed that can be obtained. Each starship is unique in its distance to mass towing ratio.

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



Warp Conversion

NEW WARP NUMBER	OLD WARP NUMBER	MULTIPLE OF LIGHT PER SECOND	KILOMETERS PER SECOND
1.0	1.000	1.000	3.000E+08
1.5	1.500	3.375	1.013E+09
2.0	2.000	8.000	2.400E+09
2.5	2.500	15.625	4.688E+09
3.0	3.000	27.000	8.100E+09
3.5	3.500	42.875	1.286E+10
4.0	4.000	64.000	1.920E+10
4.5	4.500	91.125	2.734E+10
5.0	5.000	125.000	3.750E+10
5.5	5.500	166.375	4.991E+10
6.0	6.000	216.000	6.480E+10
6.5	6.500	274.625	8.239E+10
7.0	7.000	343.000	1.029E+11
7.5	7.500	421.875	1.266E+11
8.0	8.000	512.000	1.536E+11
8.5	8.500	614.125	1.842E+11
9.0	9.000	729.000	2.187E+11
9.1	9.146	785.055	2.295E+11
9.2	9.247	790.555	2.372E+11
9.3	9.347	816.615	2.450E+11
9.4	9.448	843.242	2.530E+11
9.5	9.548	870.441	2.611E+11
9.6	9.649	898.219	2.695E+11
9.7	10.034	1010.245	3.031E+11
9.8	10.638	1203.979	3.612E+11
9.9	11.739	1617.812	4.853E+11
9.91	11.908	1688.707	5.066E+11
9.92	12.098	1770.638	5.312E+11
9.93	12.313	1866.633	5.600E+11
9.94	12.560	1981.553	5.945E+11
9.95	12.853	2123.180	6.370E+11
9.96	13.210	2305.081	6.915E+11
9.97	13.669	2524.007	7.662E+11
9.98	14.316	2934.319	8.803E+11
9.99	15.432	3675.405	1.103E+12
9.991	15.604	3799.421	1.140E+12
9.992	15.797	3941.975	1.183E+12
9.993	16.017	4108.788	1.233E+12
9.994	16.272	4308.539	1.290E+12
9.995	16.577	4555.250	1.367E+12
9.996	16.954	4873.590	1.462E+12
9.997	17.449	5312.688	1.594E+12
9.998	18.163	5992.066	1.798E+12
9.999	19.437	7343.184	2.203E+12
9.9991	19.637	7572.248	2.272E+12
9.9992	19.863	7836.429	2.351E+12
9.9993	20.121	8146.862	2.444E+12
9.9994	20.424	8519.567	2.556E+12
9.9995	20.787	8962.026	2.695E+12
9.9996	21.239	9581.403	2.874E+12
9.9997	21.836	10412.178	3.124E+12
9.9998	22.705	11704.576	3.511E+12
9.9999	24.267	14291.193	4.287E+12
9.99991	24.514	14731.166	4.419E+12
9.99992	24.792	15236.967	4.572E+12
9.99993	25.112	15835.749	4.751E+12
9.99994	25.486	16553.858	4.968E+12
9.99995	25.935	17444.704	5.233E+12
9.99996	26.496	18600.541	5.580E+12
9.99997	27.236	20204.037	6.081E+12
9.99998	28.315	22700.887	6.810E+12
9.99999	30.258	27703.301	8.311E+12
9.999991	30.565	28554.627	8.566E+12
9.999992	30.912	29537.311	8.861E+12
9.999993	31.310	30692.322	9.208E+12
9.999994	31.775	32081.924	9.625E+12
9.999995	32.335	33806.861	1.014E+13
9.999996	33.033	36044.671	1.081E+13
9.999997	33.955	39149.589	1.174E+13
9.999998	35.299	43984.986	1.320E+13
9.999999	37.721	53674.040	1.610E+13
9.9999991	38.104	55323.067	1.660E+13
9.9999992	38.536	57226.564	1.717E+13
9.9999993	39.032	59463.899	1.784E+13
9.9999994	39.612	62155.694	1.865E+13
9.9999995	40.309	65497.121	1.965E+13
9.9999996	41.180	69832.116	2.095E+13
9.9999997	42.330	75846.938	2.275E+13
9.9999998	44.005	85214.189	2.566E+13
9.9999999	47.024	103984.404	3.120E+13

FEDERATION VESSEL



Size Comparison

Destroyer • Jenghiz Class



Fast Destroyer • Swifton Class



Heavy Destroyer • Hallow Class



Interceptor • Catchon Class



Light Destroyer • Lynch Class



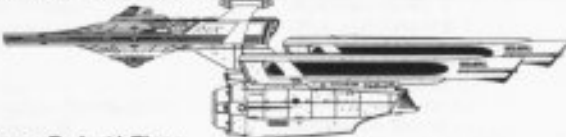
Long Range Destroyer • Pense Class



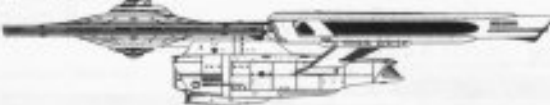
PT Destroyer • Abbe Class



Command Cruiser • Hatfield Class



Cruiser • Podesta Class



Cruiser • Iverson Class



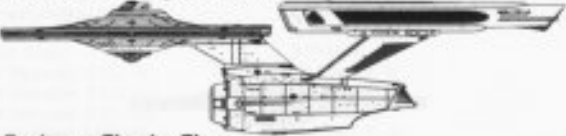
Dreadnought • Star League Class



Fast Cruiser • Cheateh Class



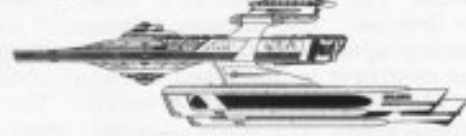
Heavy Cruiser • Enterprise Class



Light Cruiser • Shanks Class



Assault Frigate • Comanche Class



Attack Frigate • Soyuz Class



Frigate • Bragg Class



Heavy Frigate • Miranda Class



Light Frigate • Lancer Class



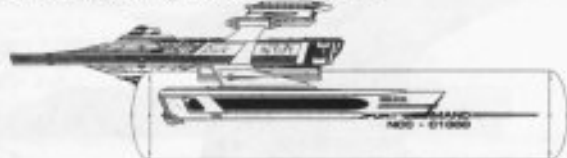
Strategic Frigate • Saratoga Class



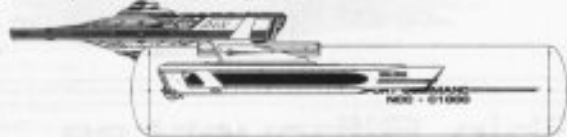
Tactical Frigate • Murphy Class



Assault Transport/Tug • Brownwood Class



Heavy Transport/Tug • Hensley Class



Light Transport/Tug • Fisher Class



Transport/Tug • Moncrief Class



DESTROYER



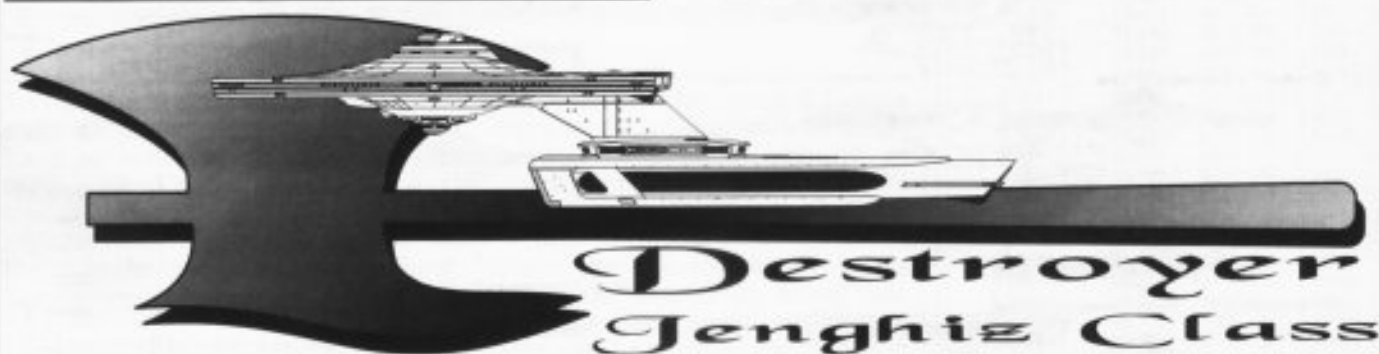
General Information

Specific Role: The Destroyer is a swift, powerful, cost effective starship used for patrols, surveillance and Federation defense. The primary mission of the destroyer is extended patrol duty along various treaty zones. During military operations the destroyer is used for assault missions and perimeter defense for the larger capital ships. The destroyer is also used to escort civilian ships through troubled regions. The vessel is equipped with extensive ECM equipment to help it survive. The vessel's small size makes it both swift and hard to target.

Physical Description: The destroyer's (PH147/D-M1) primary hull is reinforced and equipped with supplemental targeting sensors and a small hangar deck (located on the upper starboard side). Integrated into the standard deflector grid are additional electronic counter-measures to make the vessel more stealthy. The primary hull is also equipped with a (BS10/D-T1) tactical bridge which incorporates a larger weapons and tracking station. On the lower part of the primary hull is the (SM49/2J) main sensor array and (DN1/2-B) navigational dome. Located port, starboard and to the front, on both top and bottom of the primary hull are 6 (BP2/30-2C) phaser banks. To the rear of the primary hull are (IP186E/2-IR) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessels's warp fields are generated in a single (SW52/1-5RT) warp nacelle mounted underneath the secondary hull by a (DU/50-48Y) connecting dorsal. Inside the dorsal are the (M20/10-1C) intermix chamber and (AM8/18-2B) matter/antimatter storage tanks. The storage tanks are located on the rear of the connecting dorsal for emergency jettisoning. Sandwiched between the dorsal and the nacelle is a forward facing (PB2/25-10D) photon torpedo bay. In the event of an emergency the primary hull can separate from the warp nacelle section. Once separated the primary hull can maneuver on impulse power for extended periods of time.

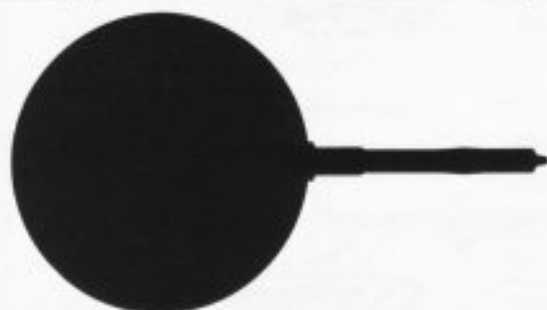
For additional detail refer to Datasheet MV-6

Class Emblem



Ship Silhouettes

Total Target Area 23852.66 m²
Average Target Area 7950.89 m²



Top Silhouette
Area 17019.27 m²



Port Silhouette
Area 4892.65 m²

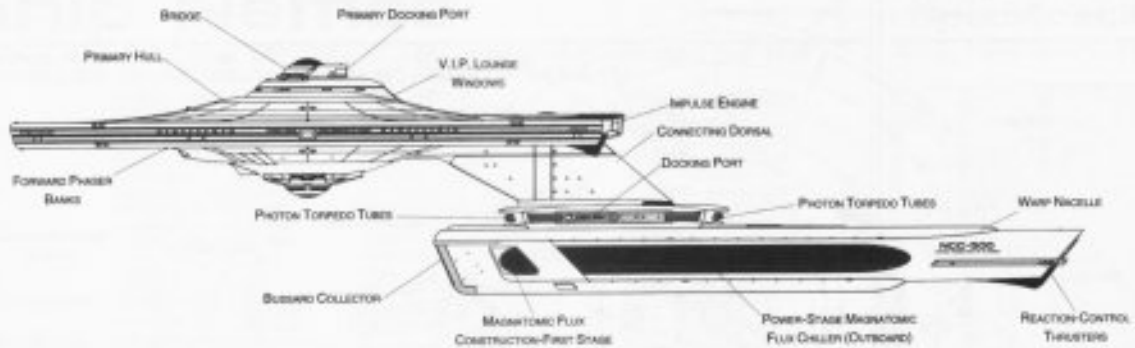


Front Silhouette
Area 1940.74 m²

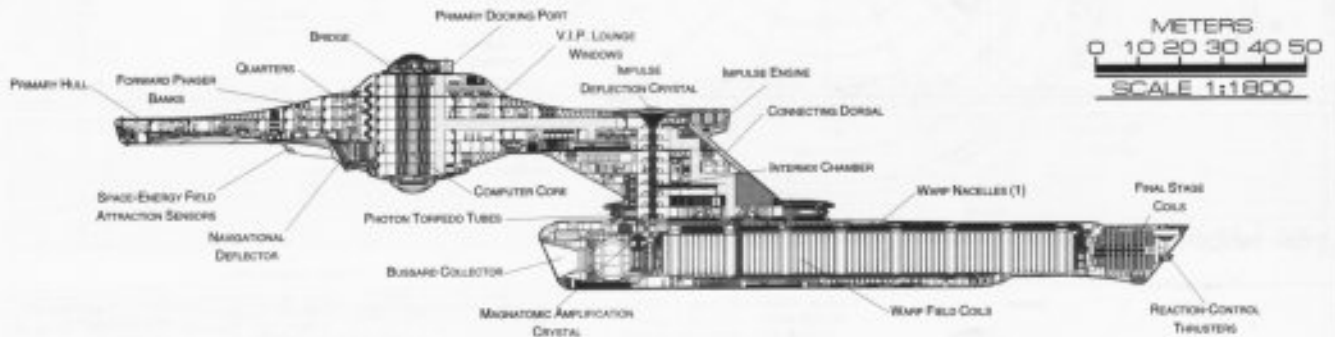


DESTROYER

JENGHIZ CLASS



PORT PROFILE



METERS
0 10 20 30 40 50
SCALE 1:1800

CROSS SECTION

Statistics

Classification: Destroyer
Category: Destroyer
Class: Jenghiz
Type: Class I
Model: NK-VIIIa
Naval Construction Contract: 500
Number Proposed: 92
Number Constructed: 56
Number in Service: 53
Number Lost: 3
Dimensions:
Overall Dimensions (Meters)
 Length: 255.65 m
 Width: 141.72 m
 Height: 56.33 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 107300 mt
 Standard: 114960 mt
 Full Load: 128332 mt
Performance:
Impulse Units: Dual Unit (IP1186E/2-IR)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 1.72
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.116 sec.
 0.25-0.50 Impulse: 0.175 sec.
 0.50-0.75 Impulse: 0.233 sec.
 0.75-Full Impulse: 0.291 sec.
Warp Units: 2 Nacelle Units (SW52/1-SRT)
Warp Engine Output: 6×10^{14} W
Warp Power Index: 0.86

Optimum Speed: 4
Max. Safe Cruising: 6
Emergency Speed: 8.01
Max. Speed: 9.11
Destructive Speed: 9.26
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.233 sec.
 Warp 2 - Warp 3: 0.372 sec.
 Warp 3 - Warp 4: 1.408 sec.
 Warp 4 - Warp 5: 2.025 sec.
 Warp 5 - Warp 6: 2.165 sec.
 Warp 6 - Warp 7: 2.339 sec.
 Warp 7 - Warp 8: 3.003 sec.
 Warp 8 - Warp 9: 4.295 sec.
 Warp 9 - Warp 9.5: 9.544 sec.
 Warp 9.5 - Warp 9.75: 11.057 sec.
 Warp 9.75 - Warp 9.9: 22.929 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 338
Officers: 56
Crew (Ensign Grade): 272
Troops: 10
Passengers: 30
Emergency condition: + 455
Medical Facilities:
 Doctors: 3
 Medical Staff: 7
 Operating Rooms: 2
 Beds: 16
Laboratories: 5
Transporters Total: 8
 1 Person: 0
 2 Person: 0
 6 Person: 3
 12 Person: 0
 22 Person: 3
 Small Cargo: 1
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

Brigs: 12
Replicators: 9
TraCTOR Beams: 1
Tow Capacity: 1.5×10^6 mt
Max Range: 7.5×10^4 km
Cargo Specification:
Standard Cargo Units: 185
Cargo Capacity: 9250 mt
Shuttlecraft Specifications:
Docking Ports: 3
Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 15
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 1
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
 Lifeboats: 31
 Turbolift (8 person): 14
 Lifeboat (10 person): 12
 Lifeboat (20 person): 5
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 1.31
 Stellar Survey: 1.11
 Short Range: 1.33
 Long Range: 1.12
 Navigation: 1.31
 Special: 1.83
Computers: 2
 Type: Daystrom Duotronic 1-III
 Type: Daystrom Duotronic 1-II

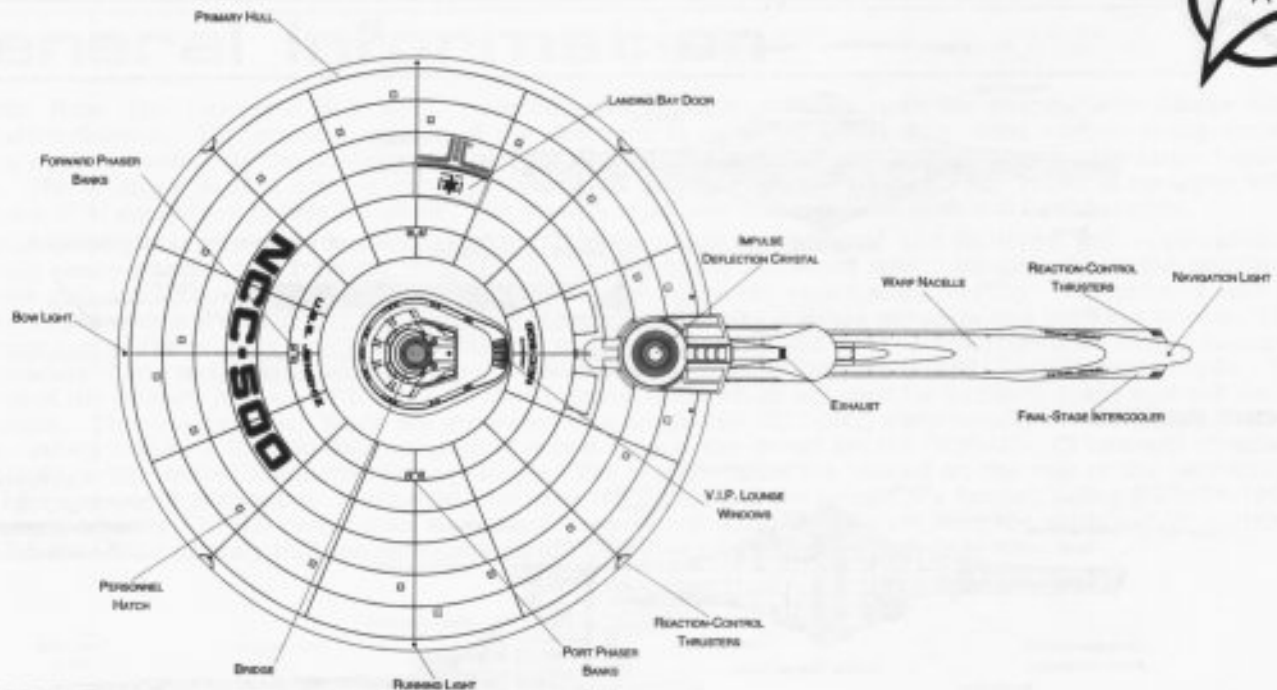
ECM Index: 1.19
Shield Rating:
Shield Index: 1.62
Holdoff Power: 3.44×10^{12} W
Refresh Rate: 9.77×10^{11} W
Breakdown Rate: 1.17×10^{12} W
Shield Dimensions (Meters)
 Length: 383.5 m
 Width: 212.6 m
 Height: 84.5 m
Weapons:
Phaser Power Index: 1.15
Photon Power Index: 2.06
Vessel Power Index: 1.60
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
 Forward Banks: 2
 Rear Banks: 0
 Port Banks: 2
 Starboard Banks: 2
 Upper Bay: 0
 Lower Bay: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
 Stock: 30
 Range: 2×10^6 km
 Output: 10-50 MT
 Rate of Fire: 10 spm
 Forward Bay: 1
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

FEDERATION VESSEL

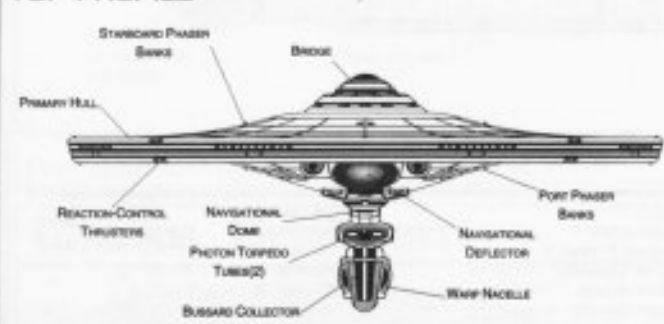
DESTROYER



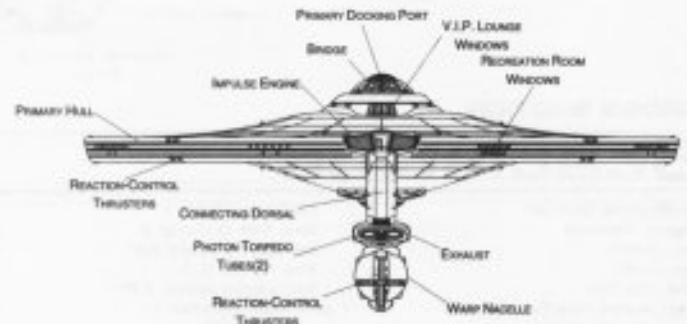
JENGHIZ CLASS



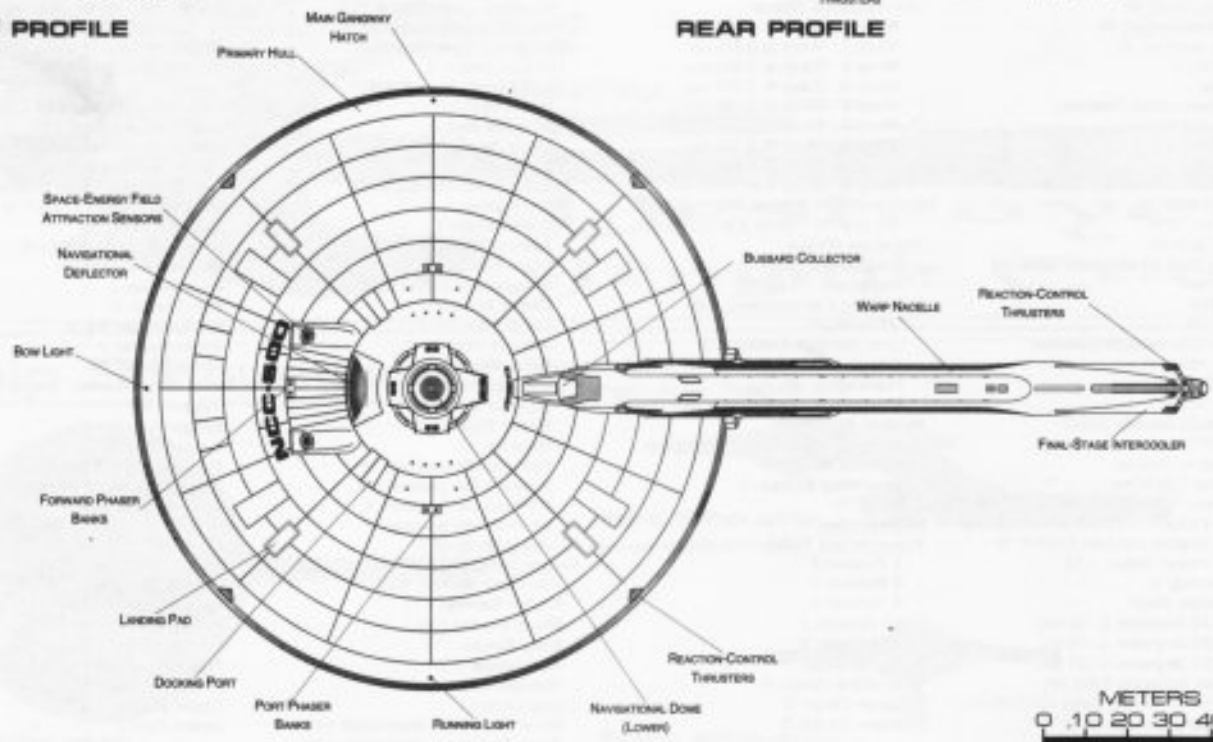
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800

FEDERATION VESSEL



Ship Names

DESTROYER

JENGHIZ CLASS

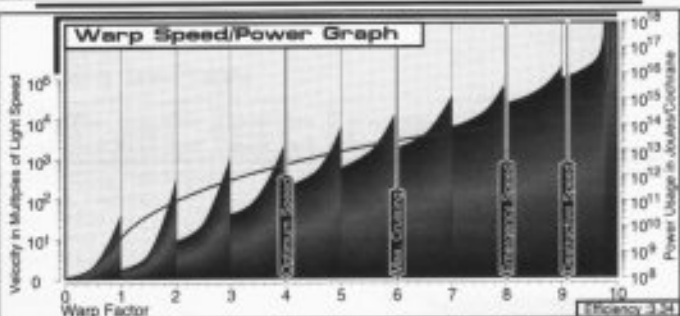
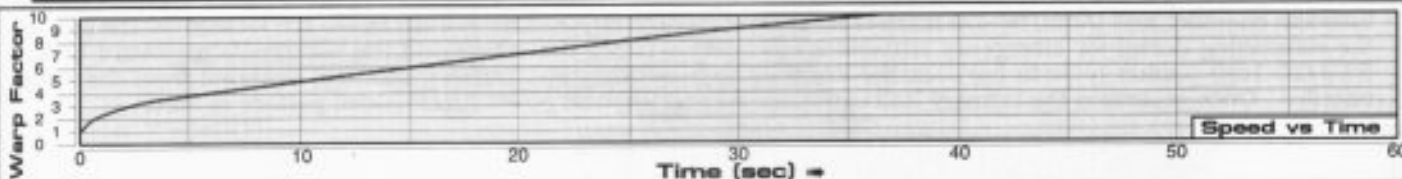
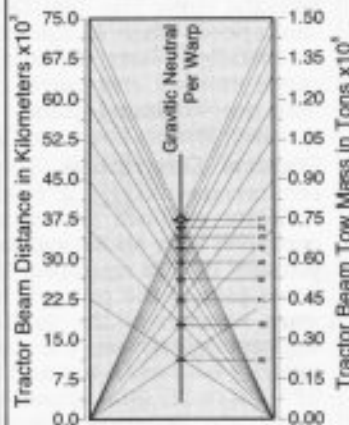
THE FOLLOWING SHIPS OF THE MK-VIII¹⁸ CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2269.10

ACHILLES -NCC-561	DRAKE -NCC-541	LOKI -NCC-529	SALADIN -NCC-500
ADAD -NCC-515	DROTE -NCC-573***	LUCIFER -NCC-521	SAMSON -NCC-543**
ADU BEKR -NCC-549	EL CID -NCC-534	LYSANDER -NCC-540	SARGON -NCC-504
AHRIMAN -NCC-513	ESCH -NCC-583***	MANLY -NCC-567***	SCIPIO -NCC-553
AJAX -NCC-547	ETZEL -NCC-509	MARS -NCC-625	SHAITAN -NCC-519
AKBAR -NCC-548	FITZGERALD -NCC-585***	MARTEL -NCC-554	SIVA -NCC-520
AL MAHDI -NCC-545	GAUGHT -NCC-591***	MCWHIRTER -NCC-586***	STRONG -NCC-589***
ALARIC -NCC-503	GERANNO -NCC-635	MOLOCK -NCC-522	SULEIMAN -NCC-508
ALEXANDER -NCC-511	GUANADA -NCC-556	MORRISON -NCC-588***	TAMERLANE -NCC-510
ALLEYNE -NCC-557***	HAGGERTY -NCC-568***	MURREL -NCC-575***	THESEUS -NCC-552
ALVA -NCC-531**	HAMILCAR -NCC-518	NASPYPANY -NCC-591***	THOMASON -NCC-565***
ALVARADO -NCC-537	HANNIBAL -NCC-512	NEAL -NCC-592**	TIPPS -NCC-574***
APPOLLYN -NCC-542	HARLEY -NCC-561***	NELSON -NCC-546	TREHLOW -NCC-578***
ARES -NCC-524	HASHISHIYUN -NCC-516	NEY -NCC-633	TUCKER -NCC-577***
AZRAEL -NCC-517	HATHOR -NCC-523	NIETO -NCC-584***	TYR -NCC-526
BROOKINGS -NCC-582***	HEKTOR -NCC-639	NIXON -NCC-570***	WAYLANDER -NCC-580***
CIMON -NCC-555	HUMES -NCC-572***	ORR -NCC-590***	WALKES -NCC-590***
CLAXTON -NCC-571***	IBLIS -NCC-528	PACKARD -NCC-589***	XERXES -NCC-505
COCHISE -NCC-530	IVAN -NCC-550	PERSEUS -NCC-544	
COLEBAUGH -NCC-586***	JENGHIZ -NCC-501*	PERSEUS -NCC-506**	
CORTEZ -NCC-536	JOYNER -NCC-564***	PONTIAC -NCC-532	
DANILEY -NCC-578***	JUGURTHA -NCC-527	QUIGLEY -NCC-563***	
DARIUS -NCC-502	KUBLAI -NCC-507	RAHMAN -NCC-514	
DE RUYTER -NCC-538	LANE -NCC-589***	ROBINER -NCC-587***	
DIEGMAN -NCC-558***	LEBLANC -NCC-579***	RUSAK -NCC-582***	

*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



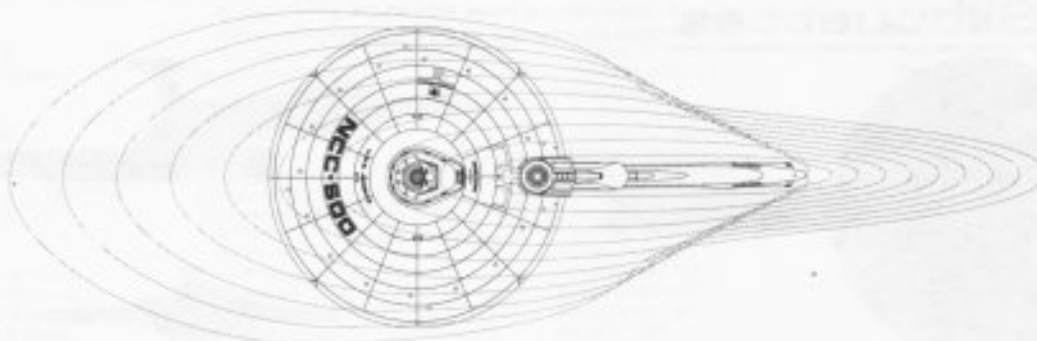
Field Length 492.44m
Field Width 156.08m
Field Height 76.22m



Front Warp Field Profile
Cross Section Area 9265.99 m²



Port Warp Field Profile
Cross Section Area 23719.10 m²



Top Warp Field Profile
Cross Section Area 47818.18 m²

FEDERATION VESSEL

FAST DESTROYER



General Information

Specific Role: The Fast Destroyer's design contains outstanding phaser power in a compact vessel. It was found that speed, when compared to the Interceptor, could be compromised so that a siamesed MegaPhaser pack could be installed above the impulse drive on a support strut. The primary use of the fast destroyer is extended long range military and patrol duty. During military activity the destroyer is used for assault where a fast light ship with overwhelming phaser firepower is needed. The vessel is equipped with extensive ECM equipment to help it survive. Due to the vessel's high power and small size, it is agile and hard to target.

Physical Description: The (PH147/D-M2) primary hull is equipped with additional targeting sensors, hull reinforcements and a small hangar deck (located on the upper starboard side). Integrated into the standard deflector grid are additional electronic counter-measures to make the vessel more stealthy. The vessel is also equipped with additional inertial dampening generators to help compensate for the vessels exceptional agility. The primary hull is equipped with a (BS10/D-T3) bridge incorporating a larger weapons and tracking station. On the lower part of the primary hull is the (SM49/2G) main sensor array and (DN1/3-A) navigational dome. Below the warp nacelles is the (SME978/2A) lower sensor array. Above the impulse units, connected by a (DU/20-5A) support pylon, are the siamesed (MP2/15-2S) MegaPhasers. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) standard phaser banks. To the rear of the primary hull are (IP186E/4-Π) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels's warp fields are generated by two (SW52/1-4RU) warp nacelles siamesed together and mounted underneath the secondary hull by a (DU/60-50H) reinforced connecting dorsal. Inside the connecting dorsal are the (M20/10-2S) intermix chamber and (AM8/36-4X) matter/antimatter storage tanks. The storage tanks are located on the rear of the connecting dorsal for emergency jettisoning. Nestled between the dorsal and the nacelles is a forward facing (PB2/25-10N) photon torpedo bay. In the event of an emergency the primary hull can separate from the warp nacelles. Once separated the primary hull can maneuver on impulse power for extended periods of time.

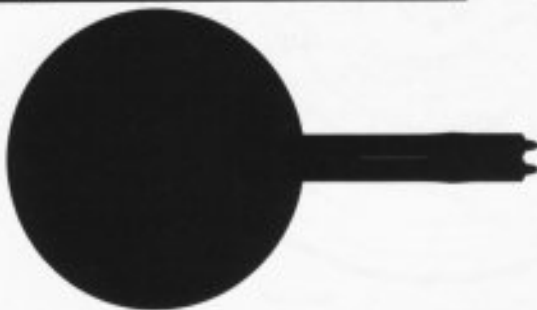
For additional detail refer to Datasheet MV-8

Class Emblem



Ship Silhouettes

Total Target Area 25636.94 m²
Average Target Area 8545.65 m²



Top Silhouette
Area 18155.34 m²



Port Silhouette
Area 5346.69 m²

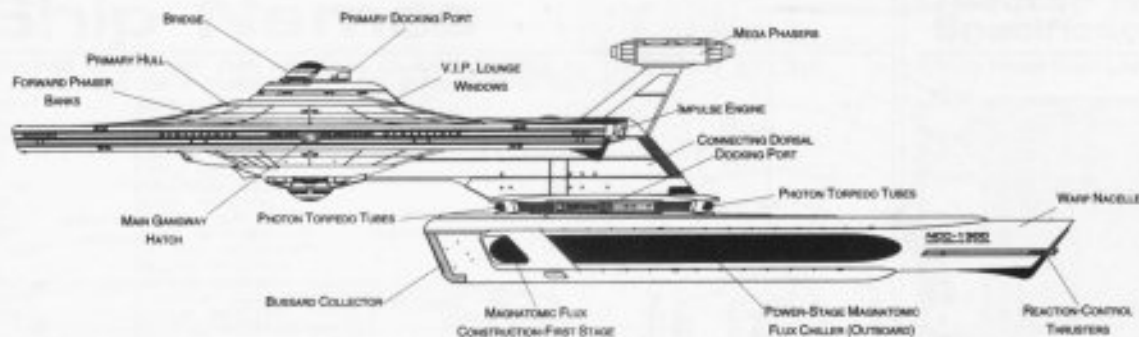


Front Silhouette
Area 2132.91 m²

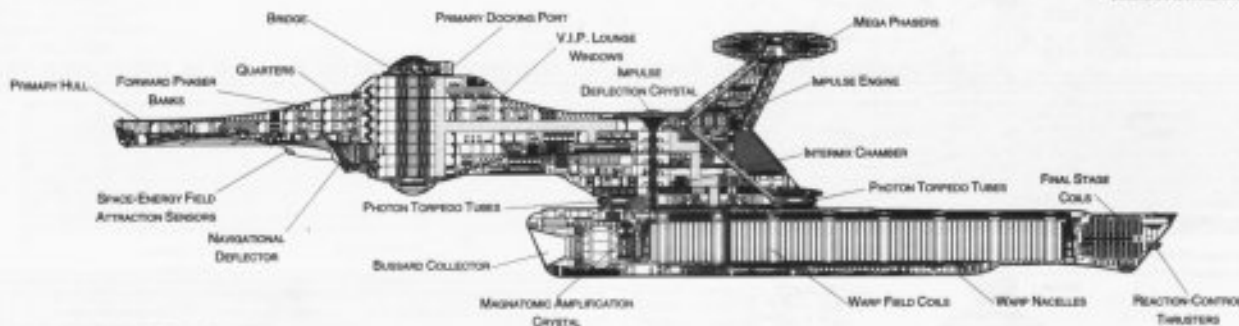


FAST DESTROYER

SWIFTEEN CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Fast Destroyer
Category: Destroyer
Class: Swiften
Type: Class 1
Model: MK-XIIIa
Naval Construction Contract: 1300
Number Proposed: 43
Number Constructed: 28
Number in Service: 28
Number Lost: 0
Dimensions:
Overall Dimensions (Meters)
 Length: 252.78 m
 Width: 141.72 m
 Height: 58.07 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 17.02 m
Displacement (Metric Tons)
 Light: 129089 mt
 Standard: 138304 mt
 Full Load: 154382 mt
Performance:
Impulse Units: Dual Unit (IR186E/4-IT)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 1.43
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.14 sec.
 0.25-0.50 Impulse: 0.21 sec.
 0.50-0.75 Impulse: 0.28 sec.
 0.75-Full Impulse: 0.35 sec.
Warp Units: 2 Nacelle Units (SWS2/1-4RU)
Warp Engine Output: 1.2×10^{14} W
Warp Power Index: 1.43

Optimum Speed: 4
Max. Safe Cruising: 7
Emergency Speed: 9
Max. Speed: 9.3
Destructive Speed: 9.5
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.14 sec.
 Warp 2 - Warp 3: 0.224 sec.
 Warp 3 - Warp 4: 0.847 sec.
 Warp 4 - Warp 5: 1.218 sec.
 Warp 5 - Warp 6: 1.302 sec.
 Warp 6 - Warp 7: 1.407 sec.
 Warp 7 - Warp 8: 1.806 sec.
 Warp 8 - Warp 9: 2.583 sec.
 Warp 9 - Warp 9.5: 5.741 sec.
 Warp 9.5 - Warp 9.75: 6.651 sec.
 Warp 9.75 - Warp 9.9: 13.792 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 344
Officers: 57
Crew (Ensign Grade): 277
Troops: 10
Passengers: 25
Emergency condition: + 456
Medical Facilities:
Doctors: 3
Medical Staff: 7
Operating Rooms: 2
Beds: 16
Laboratories: 6
Transporters Total: 8
 1 Person: 0
 2 Person: 0
 6 Person: 3
 12 Person: 0
 22 Person: 3
 Small Cargo: 1
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

Brigs: 15
Replicators: 11
Tractor Beams: 1
 Tow Capacity: 4.8×10^6 mt
 Max Range: 7.2×10^4 km
Cargo Specification:
 Standard Cargo Units: 167
 Cargo Capacity: 9350 mt
Shuttlecraft Specifications:
Docking Ports: 3
Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 15
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 1
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
 Lifeboats: 33
 Turbolift (8 person): 17
 Lifeboat (10 person): 11
 Lifeboat (20 person): 5
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 1.31
 Stellar Survey: 1.11
 Short Range: 1.33
 Long Range: 1.12
 Navigation: 1.37
 Special: 1.92
Computers: 2
 Type: Daystrom Duotronic 1-3I/d
 Type: Daystrom Duotronic 1-3k

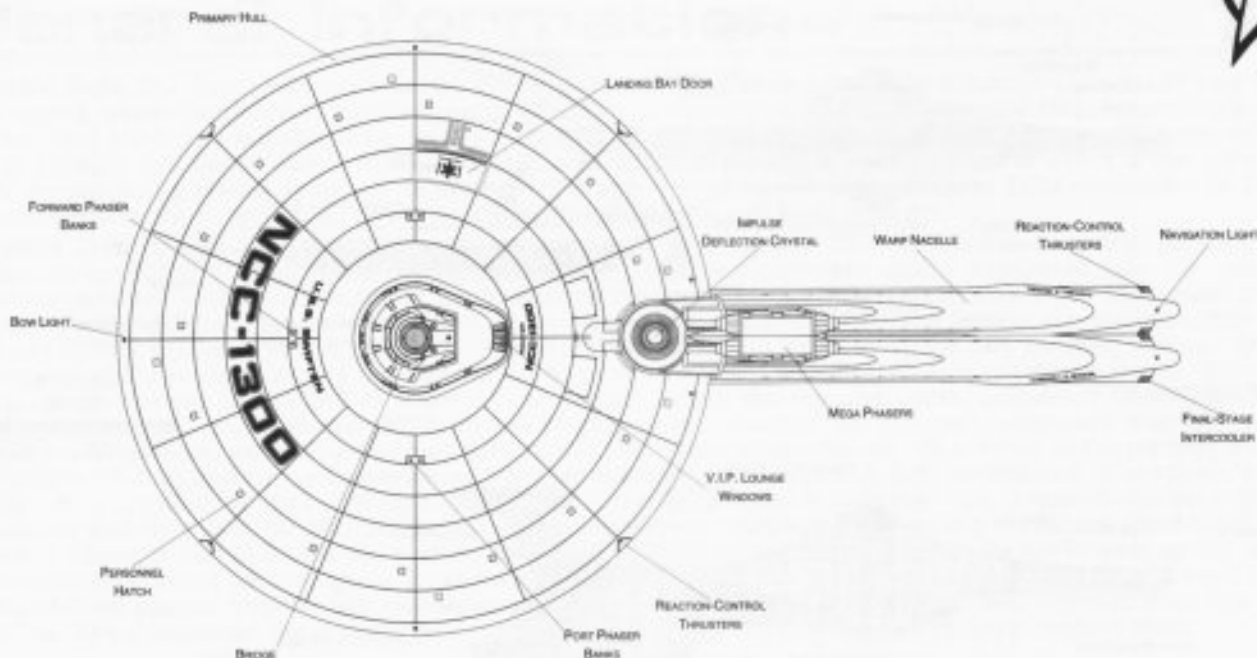
ECM Index: 1.19
Shield Rating:
Shield Index: 1.26
Holdoff Power: 2.56×10^{12} W
Refresh Rate: 8.12×10^{11} W
Breakdown Rate: 9.75×10^{11} W
Shield Dimensions (Meters)
 Length: 379.1 m
 Width: 212.6 m
 Height: 87.1 m
Weapons:
Phaser Power Index: 1.78
Photon Power Index: 1.71
Vessel Power Index: 1.75
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^3 km
Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 0
Port Banks: 2
Starboard Banks: 2
Upper Banks: 0
Lower Banks: 0
Beam (MegaPhasers) Total: 2
 Output: 2.8×10^{12} W 1.3×10^{12} W
 Range: 1×10^6 km
Rate of Fire: 15 ppm
Forward/Rear Banks: 2
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: 4 Bays
 Stock: 30
 Range: 2×10^6 km
 Output: 10-50 MT
Rate of Fire: 10 spm
Forward Bay: 1
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

FEDERATION VESSEL

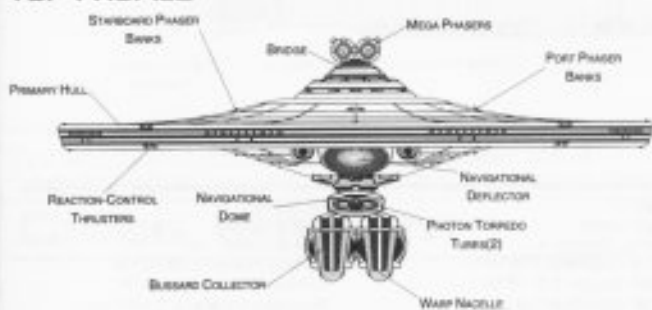
FAST DESTROYER



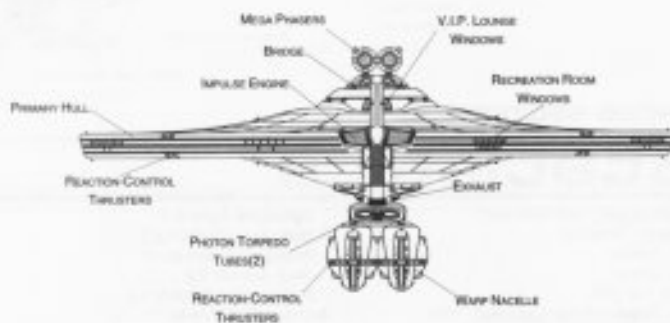
SWIFTEN CLASS



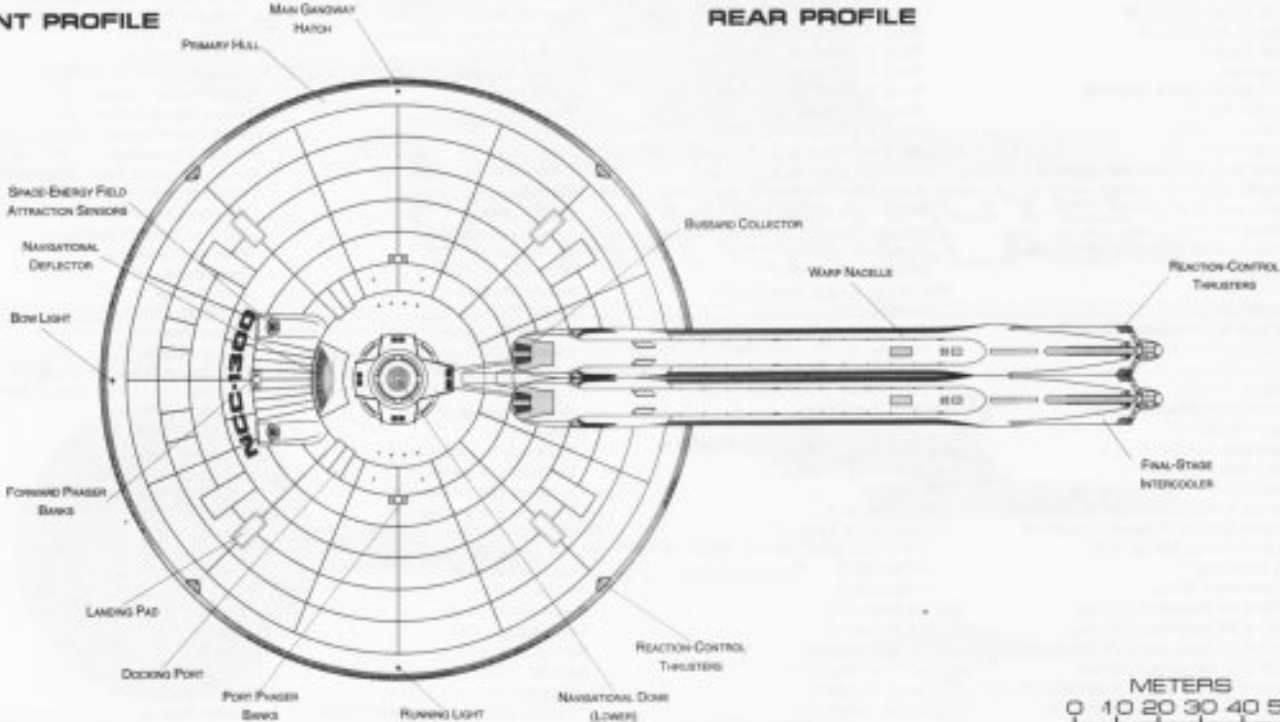
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1,800

FEDERATION VESSEL

FAST DESTROYER



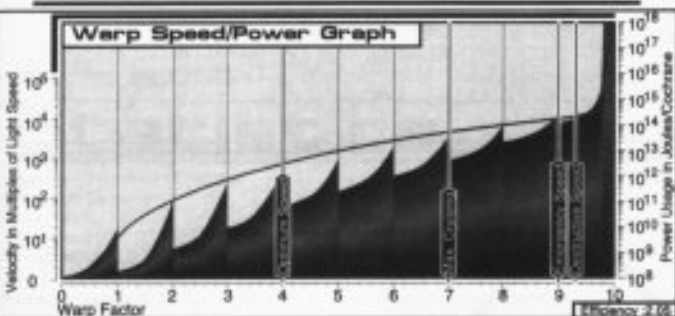
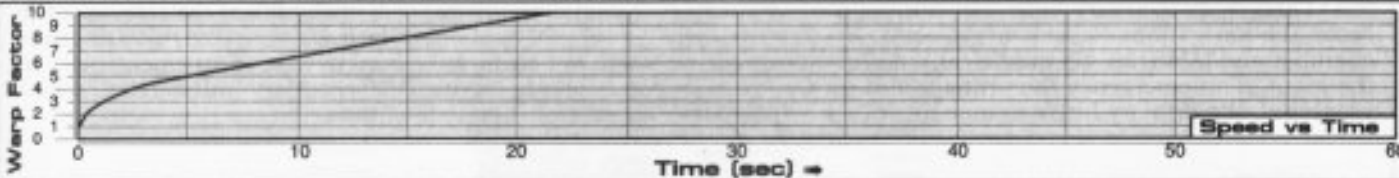
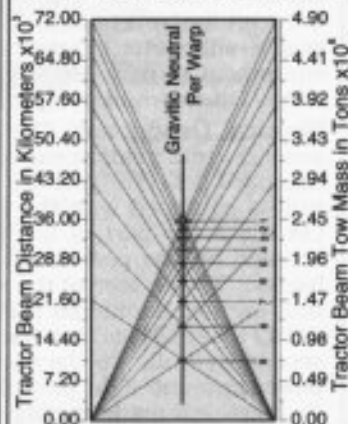
Ship Names

THE FOLLOWING SHIPS OF THE MK-XII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2271.5

- | | |
|-------------------------|-----------------------|
| MERRITT ·NCC-1337*** | BOYD ·NCC-1313 |
| OLSEN ·NCC-1328 | CHUB ·NCC-1306 |
| PASCHA ·NCC-1302 | COPE ·NCC-1332*** |
| PIERCE ·NCC-1325 | DIMBOW ·NCC-1314 |
| REESE ·NCC-1320 | EARLZ ·NCC-1323 |
| SAUNDERS ·NCC-1301 | EDSTROUM ·NCC-1303 |
| SCHEER ·NCC-1308 | ELUGH ·NCC-1312 |
| SCRIPT ·NCC-1339*** | EUTING ·NCC-1343*** |
| SHARPLY ·NCC-1324 | GARD ·NCC-1307 |
| SMOOTHNEY ·NCC-1333*** | GAYORG ·NCC-1338*** |
| STYCE ·NCC-1326 | GILLIAN ·NCC-1319 |
| SWIFTEN ·NCC-1300* | HIGDON ·NCC-1310 |
| THELLER ·NCC-1331*** | HOUSTON ·NCC-1304 |
| WIDENER ·NCC-1316 | KAITLIN ·NCC-1322 |
| WILLBORNE ·NCC-1340*** | KALAVAN ·NCC-1321 |
| WILLIAMSON ·NCC-1330*** | KAUFFER ·NCC-1318 |
| YOKELEY ·NCC-1317 | MATHIAS ·NCC-1309 |
| ZICKIUS ·NCC-1327 | McDOUGAL ·NCC-1334*** |
| ZOOZACH ·NCC-1329*** | McMILLAN ·NCC-1341*** |
| ACREMAN ·NCC-1315 | |
| ADDISON ·NCC-1335*** | |
| BAGLEY ·NCC-1311 | |
| BARCLAY ·NCC-1342*** | |
| BARKSMAN ·NCC-1336*** | |
| BEALER ·NCC-1305 | |

Tractor Beam Specifications

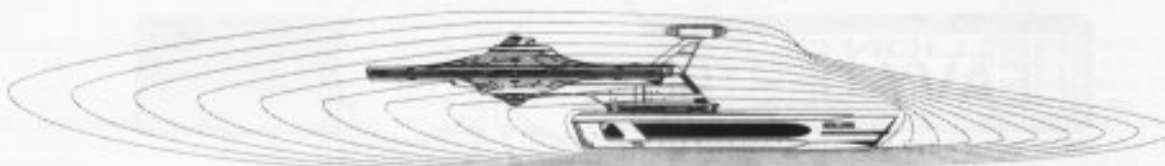
Primary Tractor Beam Load Calculator



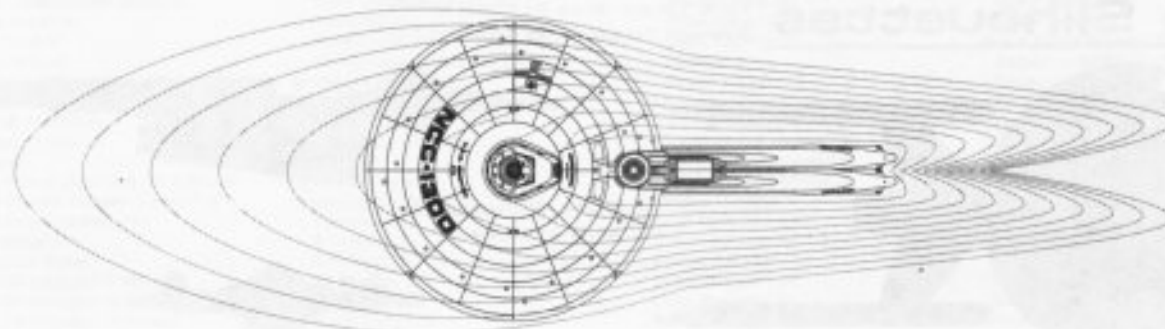
Field Length 554.37m
Field Width 154.32m
Field Height 78.11m



Front Warp Field Profile
Cross Section Area 12052.9 m²



Port Warp Field Profile
Cross Section Area 29293.68 m²



Top Warp Field Profile
Cross Section Area 57204.38 m²

SWIFTEN CLASS

FEDERATION VESSEL

HEAVY DESTROYER



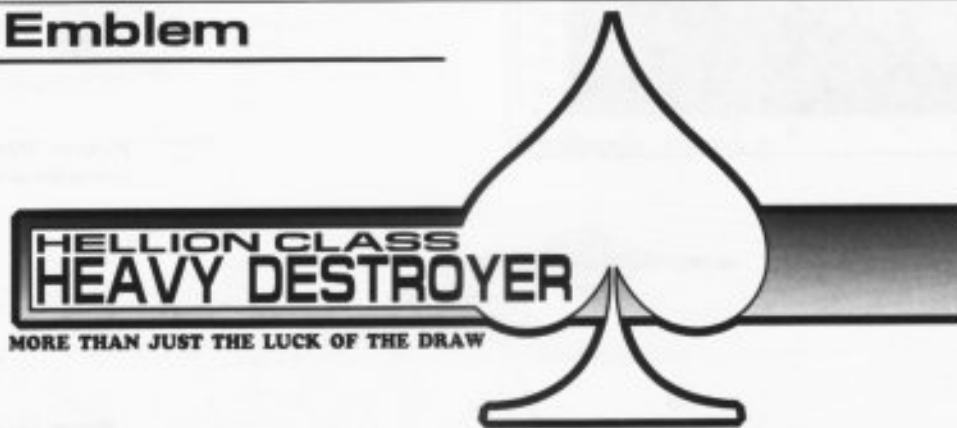
General Information

Specific Role: After extensive research, starship designers found that a Heavy Destroyer was needed to fill the gap between destroyers and dreadnoughts. The secondary hull is connected directly to the primary hull to reduce the craft's silhouette. Integrated throughout the vessel are more powerful shields, sensors and extensive ECM equipment to help it survive. The primary use of the Heavy Destroyer is extended long range military and patrol duty. During military operations, the destroyer is used for main-line defense and as a perimeter holding ship.

Physical Description: The Heavy Destroyer's (PH147/D-M5) primary hull is equipped with additional targeting sensors, hull reinforcements and a small hangar bay located on the upper starboard side. Integrated into the standard deflector grid are additional electronic counter-measures to make the vessel more stealthy. The primary hull is equipped with the (BS10/D-T3) tactical bridge which incorporates a larger weapons and tracking station. On the lower part of the primary hull is the (SM49/2B) main sensor array and (DN4/3-H) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. To the rear of the secondary hull are two (BP2/30-2C) phaser banks. On the underside of the secondary hull are two additional (BP2/30-2C) phaser banks. Located in notches on either side of the primary hull are the (MP1/15-2F) MegaPhasers. The vessel is equipped with a (PB2/25-10E) photon torpedo bay mounted below the secondary hull. To the rear of the primary hull are (IP186E/5-IR) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessel is also equipped with additional inertial dampeners to compensate for its increased maneuvering capabilities. The vessel's warp fields are generated by two (SW52/1-5RO) warp nacelles attached to the secondary hull by (DU/50-8F) support pylons. Mounted directly below the primary hull is the (SH117/D-M1) secondary hull. The front of the secondary hull contains a (DN2/B-3) navigational deflector used to assist the navigational shields in deflecting oncoming debris. Inside the secondary hull are the (M26/6-2) intermix chamber and (AM8/36-4P) matter/antimatter storage tanks which are easily jettisoned in case of an emergency. In the event of an emergency the primary and secondary hulls can separate leaving the secondary hull derelict. Once separated, the primary hull can maneuver on impulse power for extended periods of time.

For additional detail refer to Datasheet MV-12

Class Emblem



Ship Silhouettes

Total Target Area 31778.5 m²
Average Target Area 10592.17 m²



Top Silhouette
Area 21907.70 m²



Port Silhouette
Area 7192.47 m²

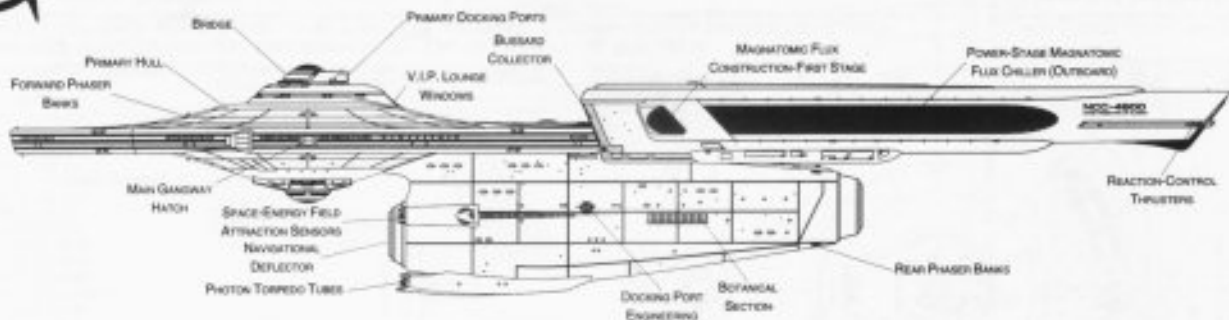


Front Silhouette
Area 2678.33 m²

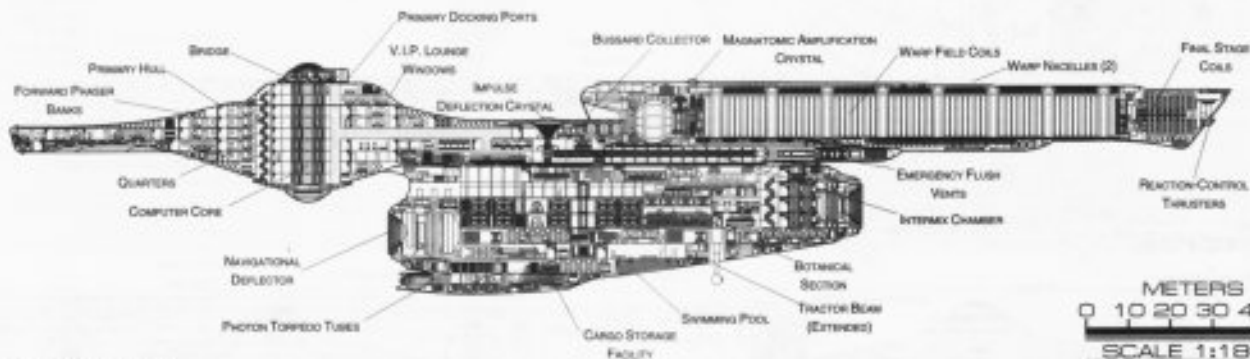
HEAVY DESTROYER

HELLION CLASS

FEDERATION VESSEL



PORT PROFILE



CROSS SECTION

Statistics

Classification: Heavy Destroyer
Category: Destroyer
Class: Hellion
Type: Class 1
Model: MK-IVa
Naval Construction Contract: 4900
Number Proposed: 36
Number Constructed: 25
Number in Service: 23
Number Lost: 2
Dimensions:
Overall Dimensions (Meters)
 Length: 290.6 m
 Width: 141.72 m
 Height: 55.06 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: 112.62 m
 Width: 33.17 m
 Height: 32.18 m
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 176900 mt
 Standard: 189528 mt
 Full Load: 211574 mt
Performance:
Impulse Units: Dual Unit (IP186E/5-IR)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 1.04
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.192 sec.
 0.25-0.50 Impulse: 0.286 sec.
 0.50-0.75 Impulse: 0.384 sec.
 0.75-Full Impulse: 0.48 sec.
Warp Units: 2 Nacelle Units (SW521-5RC)
Warp Engine Output: 1.2×10^{15} W
Warp Power Index: 1.04

Optimum Speed: 4
Max. Safe Cruising: 6
Emergency Speed: 8
Max. Speed: 9.2
Destructive Speed: 9.32
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.192 sec.
 Warp 2 - Warp 3: 0.307 sec.
 Warp 3 - Warp 4: 1.161 sec.
 Warp 4 - Warp 5: 1.689 sec.
 Warp 5 - Warp 6: 1.785 sec.
 Warp 6 - Warp 7: 1.928 sec.
 Warp 7 - Warp 8: 2.475 sec.
 Warp 8 - Warp 9: 3.54 sec.
 Warp 9 - Warp 9.5: 7.867 sec.
 Warp 9.5 - Warp 9.75: 9.115 sec.
 Warp 9.75 - Warp 9.9: 18.901 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 460
Officers: 74
Crew (Ensign Grade): 363
Troops: 13
Passengers: 46
Emergency condition: + 614
Medical Facilities:
Doctors: 4
Medical Staff: 9
Operating Rooms: 3
Beds: 21
Laboratories: 8
Transporters Total: 12
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 4
Small Cargo: 2
Medium Cargo: 2
Large Cargo: 0
Super Cargo: 0

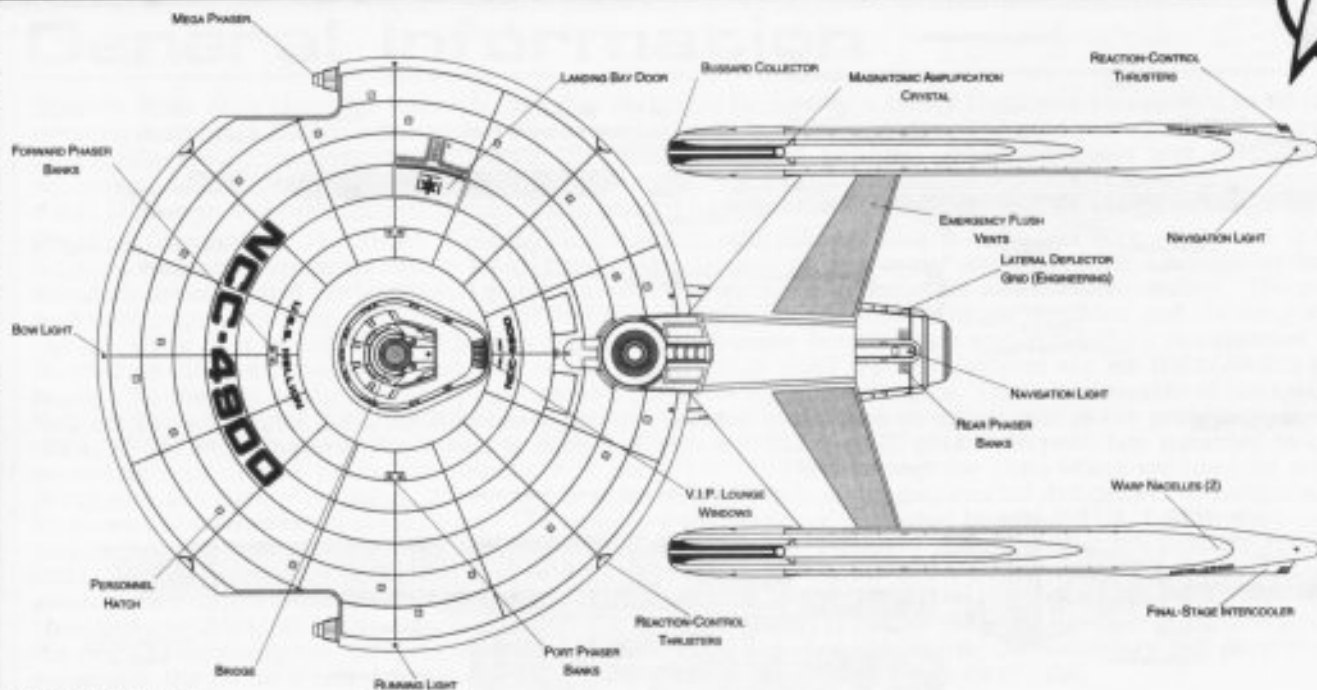
Brigs: 20
Replicators: 14
Tractor Beams: 1
Tow Capacity: 3.4×10^8 mt
Max Range: 8.2×10^4 km
Cargo Specification:
Standard Cargo Units: 499
Cargo Capacity: 24950 mt
Shuttlecraft Specifications:
Docking Ports: 5
Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 15
Work Bees: 1
Travel Pods: 1
Aquatic Shuttle: 1
Light Shuttle: 0
Standard Shuttle: 1
Heavy Shuttle: 1
Cargo Shuttle: 1
Assault Shuttle: 1
Killer Bees: 2
Light Fighter: 2
Fighter: 2
Heavy Fighter: 2
Lifeboats: 45
Turbolift (8 person): 24
Lifeboat (10 person): 15
Lifeboat (20 person): 6
Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
Planetary Survey: 1.31
Stellar Survey: 1.11
Short Range: 1.33
Long Range: 1.12
Navigation: 1.31
Special: 1.83
Computers: 2
Type: Daystrom Duotronic 1-III
Type: Daystrom Duotronic 1-II

ECM Index: 1.19
Shield Rating:
Shield Index: 0.67
Holdoff Power: 2.09×10^{12} W
Refresh Rate: 5.93×10^{11} W
Breakdown Rate: 7.11×10^{11} W
Shield Dimensions (Meters)
 Length: 435.9 m
 Width: 212.6 m
 Height: 82.6 m
Weapons:
Phaser Power Index: 0.69
Photon Power Index: 1.25
Vessel Power Index: 0.97
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
Output: 5×10^{11} W 2.5×10^{11} W
Range: 2.5×10^6 km
Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 1
Port Banks: 2
Starboard Banks: 2
Upper Banks: 0
Lower Banks: 2
Beam (MegaPhasers) Total: 2
Output: 2.6×10^{12} W 1.3×10^{11} W
Range: 1.0×10^6 km
Rate of Fire: 15 ppm/Cont.
Forward/Rear Banks: 2
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
Stock: 30
Range: 2×10^6 km
Output: 10-50 MT
Rate of Fire: 10 spm
Forward Bay: 1
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

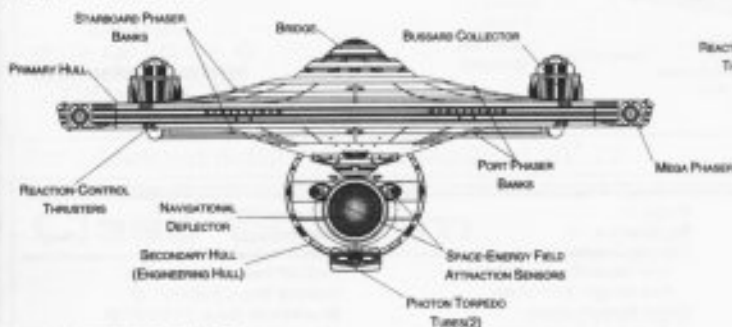
HELLION CLASS



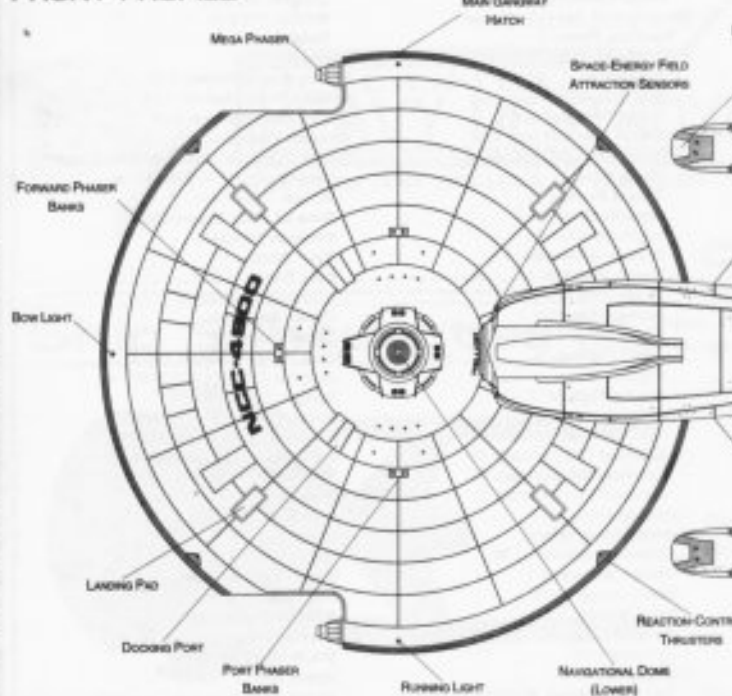
HELLION CLASS



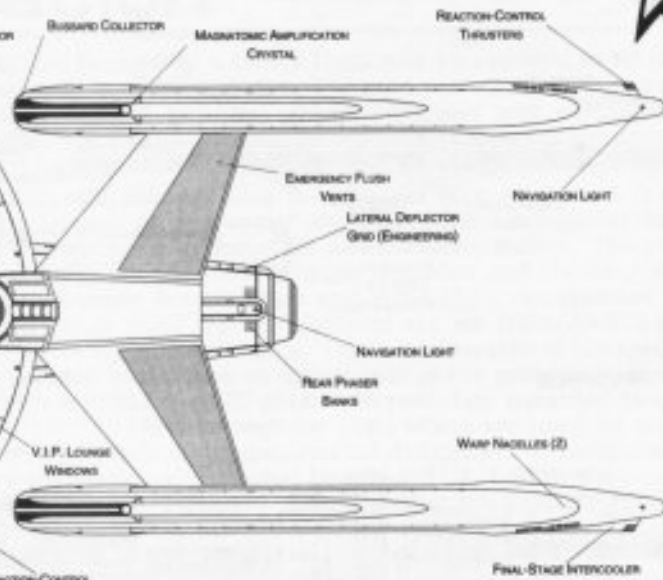
TOP PROFILE



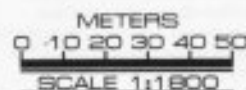
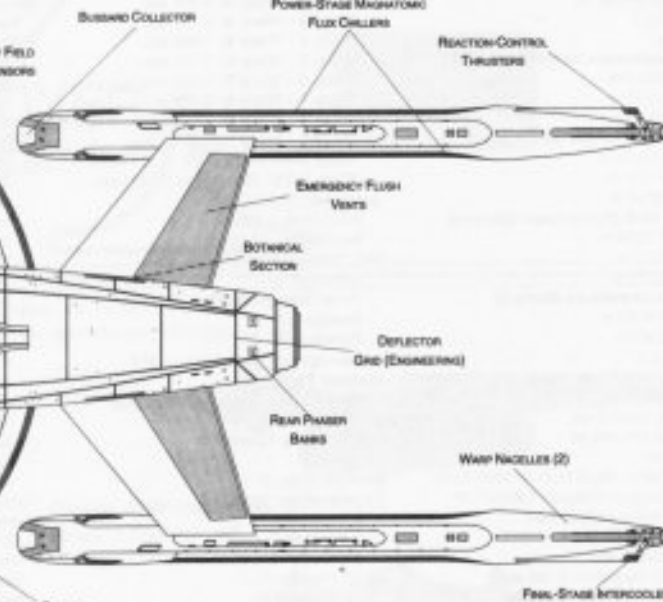
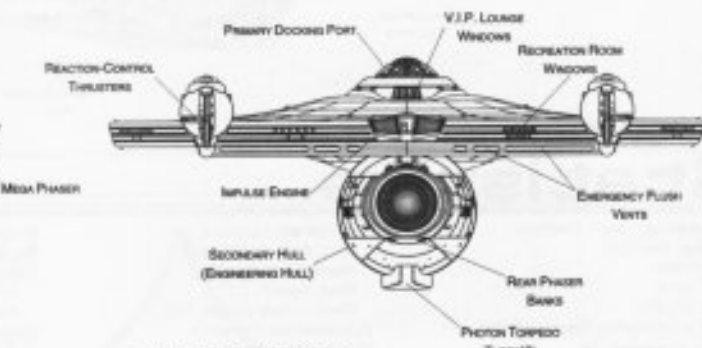
FRONT PROFILE



BOTTOM PROFILE



REAR PROFILE



FEDERATION VESSEL

HEAVY DESTROYER



Ship Names

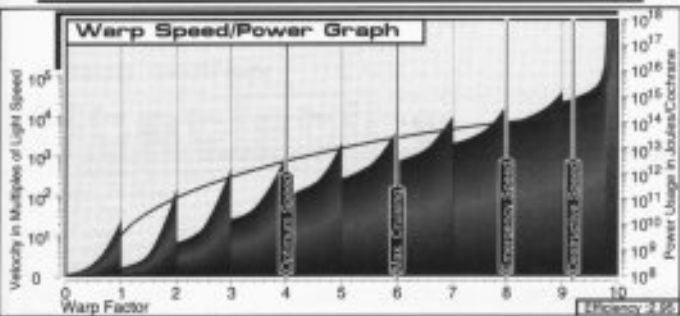
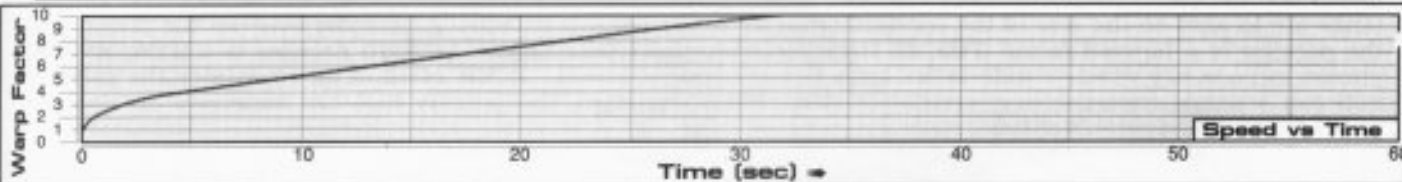
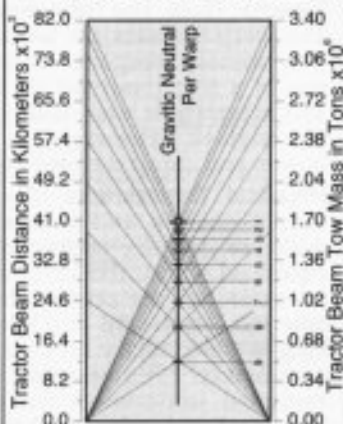
THE FOLLOWING SHIPS OF THE MK-IV^a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2270.9

ACKALIN · NCC-4925****	PRESTWICH · NCC-4903
BAIRDEN · NCC-4915	RAGSDALE · NCC-4922
BEVILL · NCC-4931****	RAM · NCC-4925
CHAVEZ · NCC-4930****	REVIERA · NCC-4926****
CURRET · NCC-4911	ROBERSON · NCC-4908
CUSTIS · NCC-4933****	ROMNE · NCC-4936****
DAMERON · NCC-4912	SASSO · NCC-4918
DAVENPORT · NCC-4905	SYLER · NCC-4927****
FARRELLS · NCC-4917	TUCKER · NCC-4919
GAUCH · NCC-4906	VARREN · NCC-4921
GLASCO · NCC-4920	WARDEN · NCC-4923
GORDAN · NCC-4913****	ZYWNO · NCC-4909
HARDING · NCC-4924	
HELLION · NCC-4900*	
HOREVATH · NCC-4932****	
HUMMEL · NCC-4902	
KESLER · NCC-4914	
LAMAR · NCC-4910	
MARTII · NCC-4907****	
MIGGS · NCC-4925****	
MIXON · NCC-4935****	
MONTANA · NCC-4901	
NIEGHMAN · NCC-4916	
ODESSA · NCC-4934****	
PHANTOM · NCC-4904	

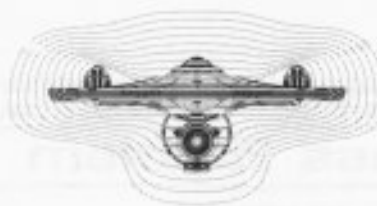
*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

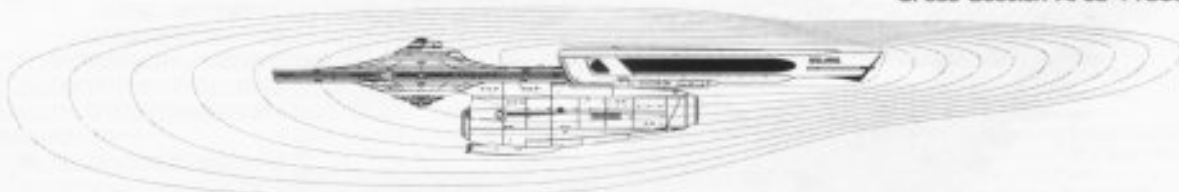
Primary Tractor Beam Load Calculator



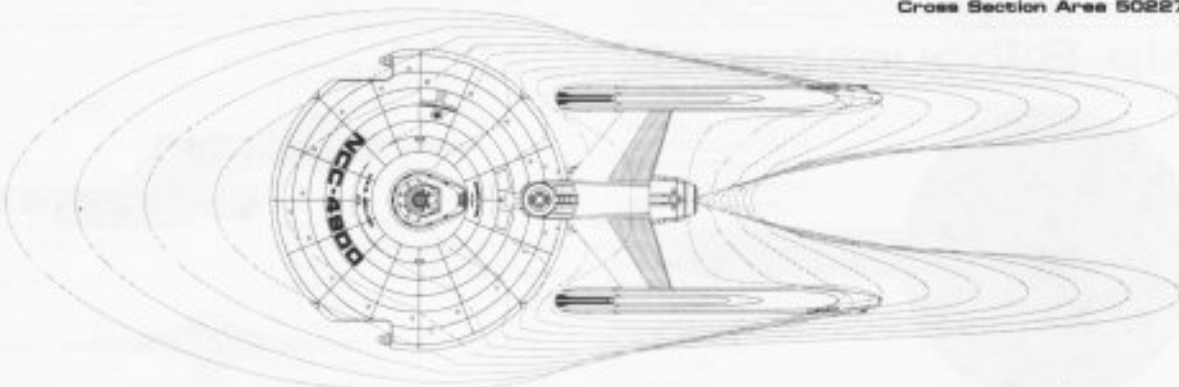
Field Length 558.14m
Field Width 178.60m
Field Height 91.44m



Front Warp Field Profile
Cross Section Area 11503.23 m²



Port Warp Field Profile
Cross Section Area 50227.66 m²



Top Warp Field Profile
Cross Section Area 86356.63 m²

HELLION CLASS

FEDERATION VESSEL

INTERCEPTOR



CATCHON CLASS

General Information

Specific Role: The Interceptor has maximized warp efficiency and is designed to pursue and intercept enemy craft. The warp nacelles are located side by side giving the interceptor a long slender warp field for increased efficiency. The primary weapons on the Interceptor are four forward mounted and two rear mounted photon torpedoes. The use of a rear mounted photon torpedo bay allows the interceptor to also retreat, fully capable of defending itself. The Interceptor was equipped with torpedoes since standard phasers and megaphasers draw power directly from the engines. The vessel is furnished with extensive ECM equipment to help it survive. Due to the vessel's high power and small size, it is agile and hard to target.

Physical Description: The (PH147/D-M6) primary hull is equipped with additional targeting sensors, hull reinforcements and a small hangar deck (located on the upper starboard side). Integrated into the standard deflector grid are additional electronic counter-measures to make the vessel more stealthy. The primary hull is equipped with a (BS11/D-P1) tactical bridge which incorporates the larger weapons and tracking station. On the lower part of the primary hull is the (SM49/3V) main sensor array and (DN1/2-L) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. To the rear of the primary hull are the (IP186E/4-IP) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels's warp fields are generated by two (SW52/1-4RP) warp nacelles siamesed together and mounted underneath the secondary hull by a (DU/60-50J) reinforced connecting dorsal. The vessel is also equipped with additional inertial dampeners to compensate for its increased maneuvering capabilities. Inside the dorsal are the (M20/10-2F) intermix chamber and (AM8/36-4U) matter/antimatter storage tanks. The storage tanks are located on the rear of the connecting dorsal for emergency jettisoning. Nestled between the dorsal and the nacelles is a forward facing (PB2/25-10V) photon torpedo bay. Below the warp nacelles is a (PB4/50-20K) photon torpedo bay which is able to fire both forward and backward. In the event of an emergency the primary hull can separate from the warp nacelle section. Once separated, the primary hull can maneuver on impulse power for extended periods of time.

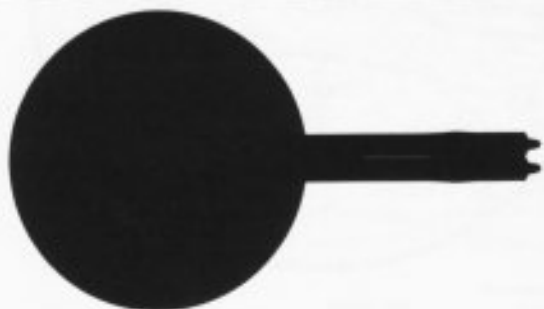
For additional detail refer to Datasheet MV-9

Class Emblem



Ship Silhouettes

Total Target Area 25638.88 m²
Average Target Area 8545.55 m²



Top Silhouette
Area 18155.34 m²



Port Silhouette
Area 5318.81 m²



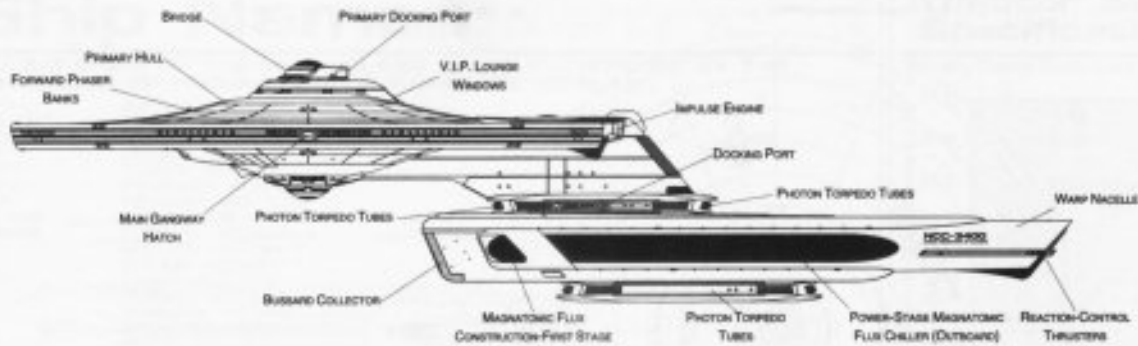
Front Silhouette
Area 2181.51 m²

FEDERATION VESSEL

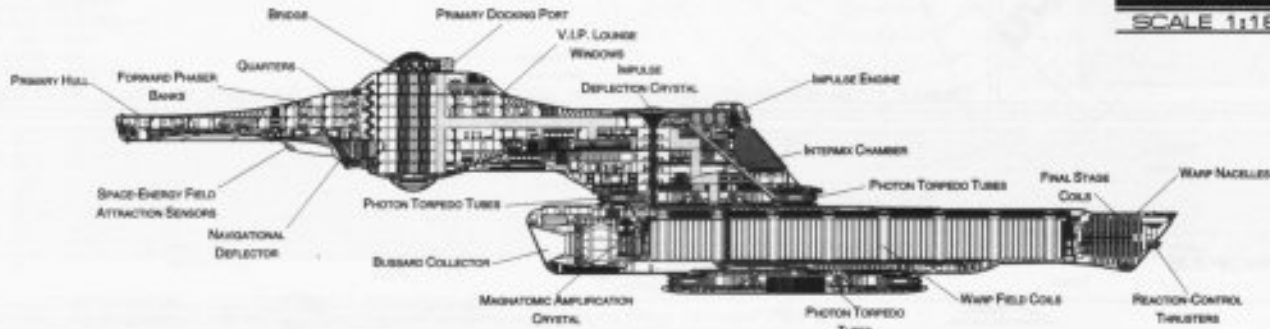
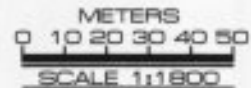


INTERCEPTOR

CATCHON CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Interceptor
Category: Destroyer
Class: Catchon
Type: Class I
Model: MK-1a
Naval Construction Contract: 3400
Number Proposed: 40
Number Constructed: 25
Number in Service: 25
Number Lost: 0
Dimensions:
Overall Dimensions (Meters)
 Length: 252.76 m
 Width: 141.72 m
 Height: 57.62 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 17.02 m
Displacement (Metric Tons)
 Light: 126566 mt
 Standard: 135601 mt
 Full Load: 151574 mt
Performance:
Impulse Units: Dual Unit (IP186E/4-IP)
Impulse Engine Output: 7.8×10^{12} W
Impulse Power Index: 1.46
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.137 sec.
 0.25-0.50 Impulse: 0.206 sec.
 0.50-0.75 Impulse: 0.275 sec.
 0.75-Full Impulse: 0.343 sec.
Warp Units: 2 Nacelle Units (SW52/1-4RP)
Warp Engine Output: 1.2×10^{15} W
Warp Power Index: 1.46

Optimum Speed: 6
Max. Safe Cruising: 8
Emergency Speed: 9
Max. Speed: 9.5
Destructive Speed: 9.7
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.137 sec.
 Warp 2 - Warp 3: 0.22 sec.
 Warp 3 - Warp 4: 0.831 sec.
 Warp 4 - Warp 5: 1.194 sec.
 Warp 5 - Warp 6: 1.277 sec.
 Warp 6 - Warp 7: 1.38 sec.
 Warp 7 - Warp 8: 1.771 sec.
 Warp 8 - Warp 9: 2.533 sec.
 Warp 9 - Warp 9.5: 5.629 sec.
 Warp 9.5 - Warp 9.75: 6.521 sec.
 Warp 9.75 - Warp 9.9: 13.523 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 352
Officers: 56
Crew (Ensign Grade): 284
Troops: 10
Passengers: 30
Emergency condition: + 473
Medical Facilities:
 Doctors: 3
Medical Staff: 7
Operating Rooms: 2
Beds: 16
Laboratories: 6
Transporters Total: 8
 1 Person: 0
 2 Person: 0
 6 Person: 3
 12 Person: 0
 22 Person: 3
 Small Cargo: 1
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

Brigs: 15
Replicators: 10
Tractor Beams: 1
 Tow Capacity: 5.1×10^6 mt
 Max Range: 7.1×10^4 km
Cargo Specifications:
 Standard Cargo Units: 186
 Cargo Capacity: 9300 mt
Shuttlecraft Specifications:
 Docking Ports: 3
 Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 15
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 1
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
 Lifeboats: 34
 Turbolift (8 person): 17
 Lifeboat (10 person): 12
 Lifeboat (30 person): 5
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 1.31
 Stellar Survey: 1.11
 Short Range: 1.33
 Long Range: 1.12
 Navigation: 1.32
 Special: 1.85
Computers: 2
 Type: Daystrom Duotronic 1-II-U
 Type: Daystrom Duotronic 1-II-W

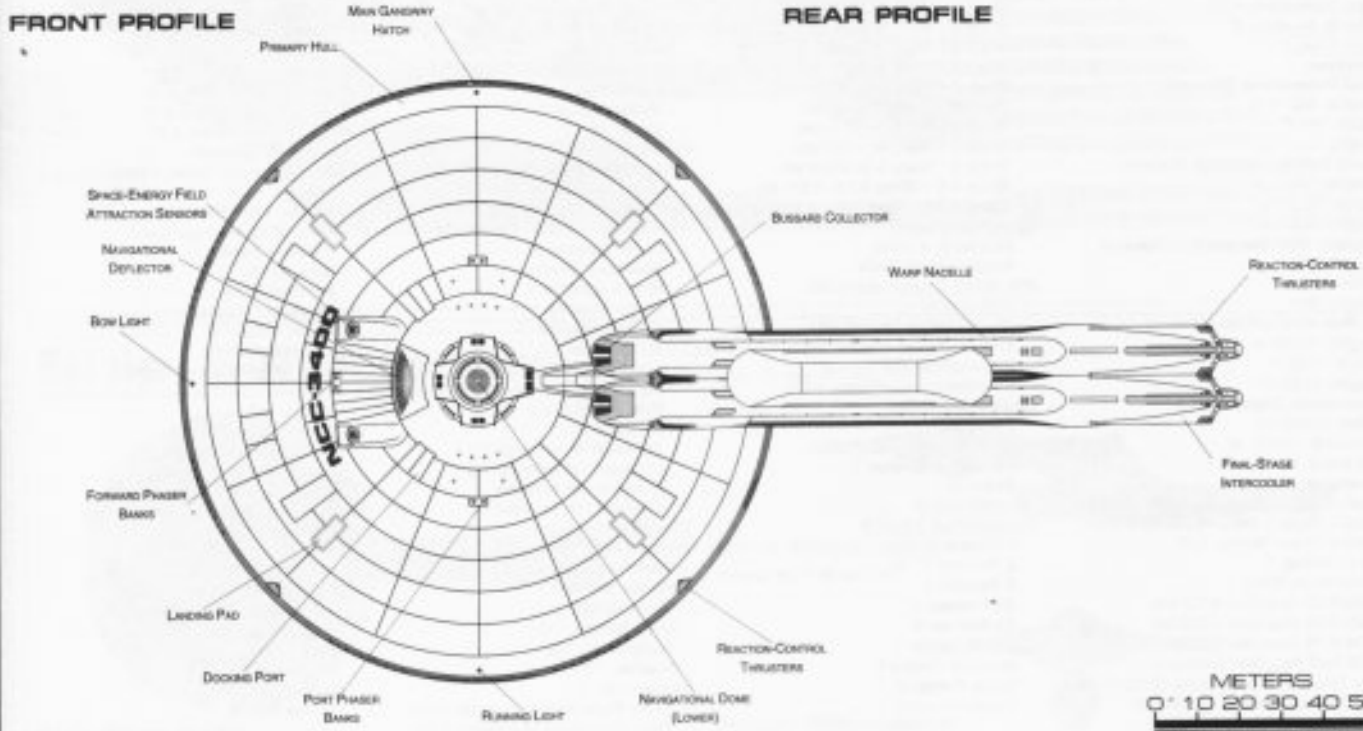
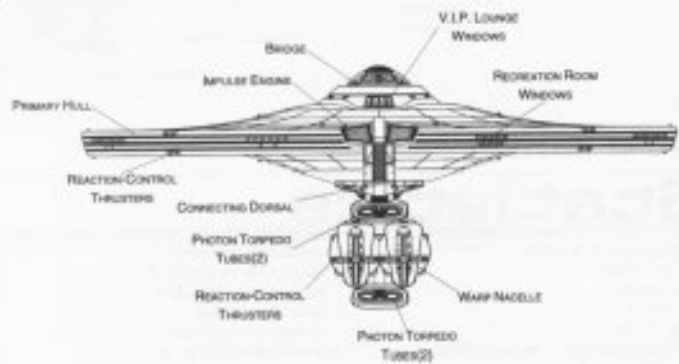
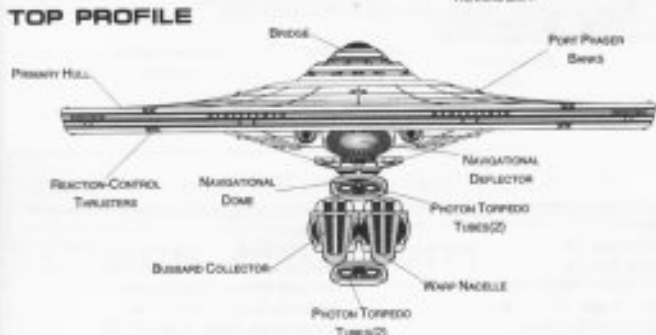
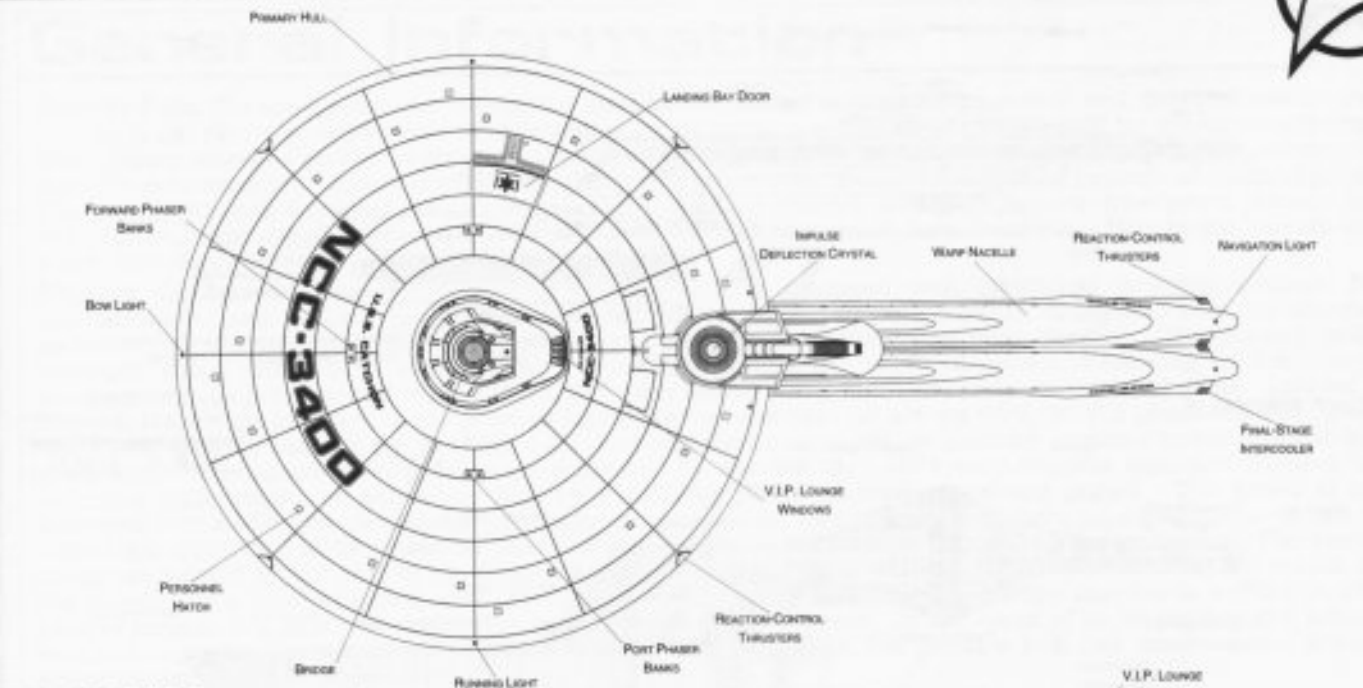
ECM Index: 1.19
Shield Rating:
 Shield Index: 1.31
 Holdoff Power: 2.92×10^{12} W
 Refresh Rate: 8.25×10^{11} W
 Breakdown Rate: 9.94×10^{11} W
Shield Dimensions (Meters)
 Length: 379.1 m
 Width: 212.6 m
 Height: 86.4 m
Weapons:
Phaser Power Index: 0.97
Photon Power Index: 8.74
Vessel Power Index: 4.86
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
 Forward Banks: 2
 Rear Banks: 0
 Port Banks: 2
 Starboard Banks: 2
 Upper Banks: 0
 Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Torpedoes (Photons) Total: 8 Bays
 Stock: 50
 Range: 2×10^6 km
 Output: 10-50 MT
 Rate of Fire: 10 spm
 Forward Bay: 2
 Rear Bay: 1
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

FEDERATION VESSEL

INTERCEPTOR



CATCHON CLASS



FEDERATION VESSEL



INTERCEPTOR

Ship Names

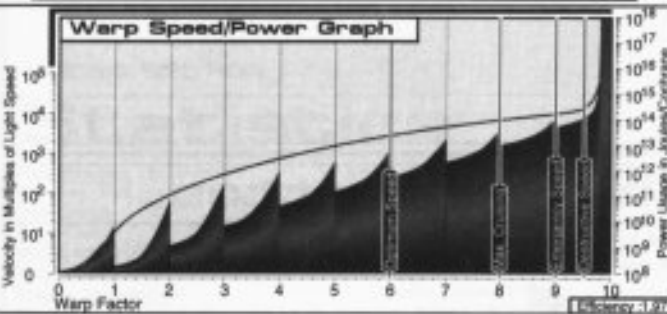
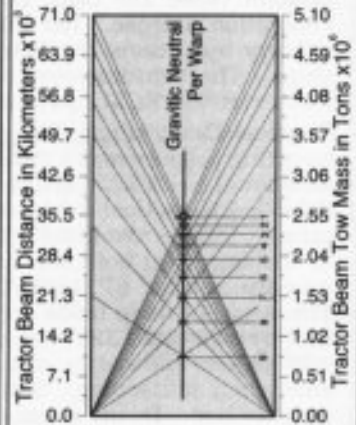
THE FOLLOWING SHIPS OF THE MK-1a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2270.10

ADAMANT -NCC-3410	MAYNARD -NCC-3415
ALLSTRIDER -NCC-3433***	NAUSSAU -NCC-3427***
BENDIVER -NCC-3405	ONDOCSIN -NCC-3439***
BENNET -NCC-3436***	ORTMAN -NCC-3402
BRYANT -NCC-3435***	PEEDEN -NCC-3428***
BURREL -NCC-3426***	PHAZONIAN -NCC-3431***
CACHON -NCC-3407	PIEDMONT -NCC-3423
CLEAVENGER -NCC-3403	ROTHENBERG -NCC-3413
CROWNOVER -NCC-3408	RUSSNAK -NCC-3422
DARDIN -NCC-3411	RUSTLER -NCC-3437***
DEVLIN -NCC-3417	STROUP -NCC-3432***
DUNHAM -NCC-3404	SWANG -NCC-3416
EELER -NCC-3418	TEMMEN -NCC-3420
FEDOR -NCC-3430***	WOMMACK -NCC-3401
GAVIN -NCC-3406	WRANGLER -NCC-3438***
GLOVER -NCC-3419	XENON -NCC-3440***
HARRISON -NCC-3421	
HOBBES -NCC-3407	
HOFT -NCC-3412	
JARVIS -NCC-3425	
KAIN -NCC-3429***	
LANKFORD -NCC-3434***	
LATEN -NCC-3414	
LUND -NCC-3424	
MAXSTREAM -NCC-3409	

*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED, ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

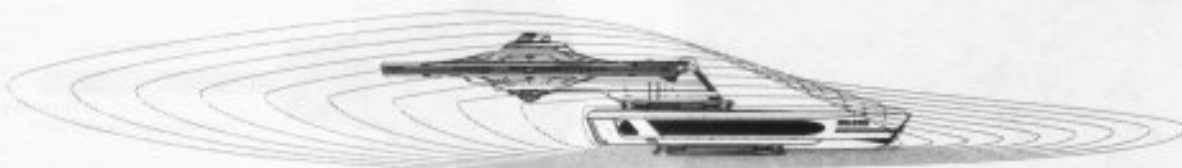
Primary Tractor Beam Load Calculator



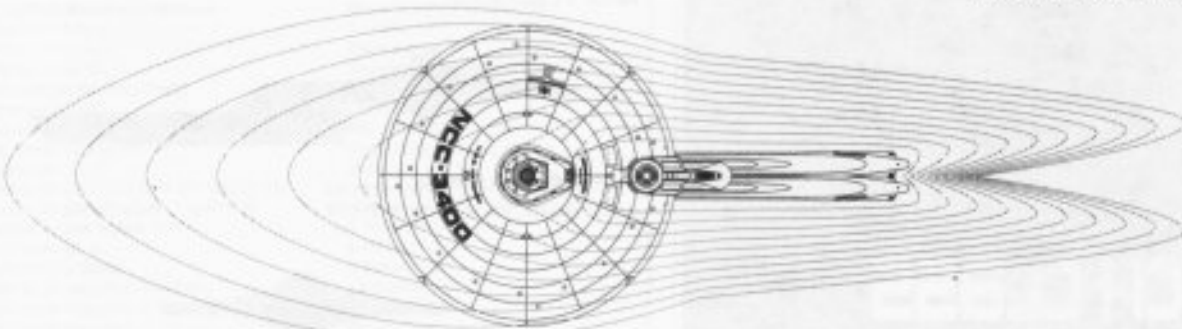
Field Length 581.81m
Field Width 158.11m
Field Height 76.21m



Front Warp Field Profile
Cross Section Area 9386.60 m²



Port Warp Field Profile
Cross Section Area 28262.82 m²



Top Warp Field Profile
Cross Section Area 60186.95 m²

CATCHON CLASS

FEDERATION VESSEL

LIGHT DESTROYER



LYNCH CLASS

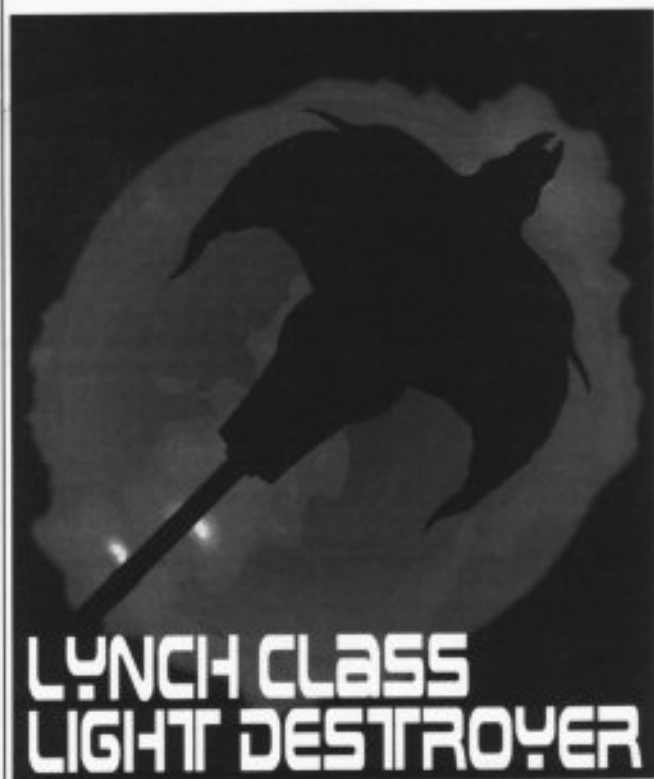
General Information

Specific Role: The Light Destroyer is a swift, powerful, cost effective starship used for patrols, surveillance and Federation defense. The primary mission of the light destroyer is patrol duty along various treaty zones. During military operations the light destroyer is used for assault missions and perimeter defense for the larger capital ships. The light destroyer is also used to escort civilian ships through troubled regions. The vessel is equipped with extensive ECM equipment to help it survive. The vessel's small size makes it both swift and hard to target.

Physical Description: The destroyer's (PH147/W-E2) primary hull is reinforced and equipped with supplemental targeting sensors and a small hangar deck (located on the port side). Integrated into the standard deflector grid are additional electronic counter-measures to make the vessel more stealthy. The primary hull is also equipped with a (BS8/E-T1) tactical bridge which incorporates a larger weapons and tracking station. On the lower part of the primary hull is the (SM49/2J) main sensor array and (DN1/2-B) navigational dome. Located port, starboard and to the front, on both top and bottom of the primary hull are 6 (BP2/30-2C) phaser banks. To the rear of the primary hull are (IP1186E/2-IN) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessel's warp fields are generated in a single (SW52/1-5RA) warp nacelle mounted underneath the secondary hull by a (DU/23-32Y) connecting dorsal. Inside the dorsal are the (M15/10-1S) intermix chamber and (AM6/16-2B) matter/antimatter storage tanks. The storage tanks are located on the rear of the connecting dorsal for emergency jettisoning. Sandwiched between the dorsal and the nacelle is a forward facing (PB2/25-10E) photon torpedo bay. In the event of an emergency the primary hull can separate from the warp nacelle section. Once separated the primary hull can maneuver on impulse power for extended periods of time.

For additional detail refer to Datasheet MV-25

Class Emblem

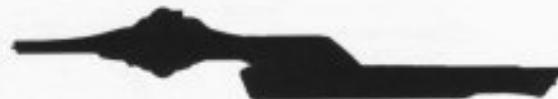


Ship Silhouettes

Total Target Area 17620.06 m²
Average Target Area 5873.35 m²



Top Silhouette
Area 11307.84 m²



Port Silhouette
Area 4527.79 m²



Front Silhouette
Area 1784.63 m²

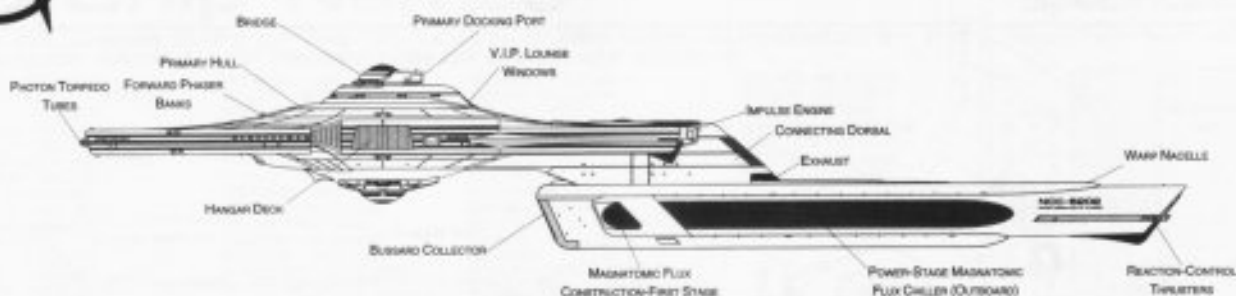
FEDERATION VESSEL



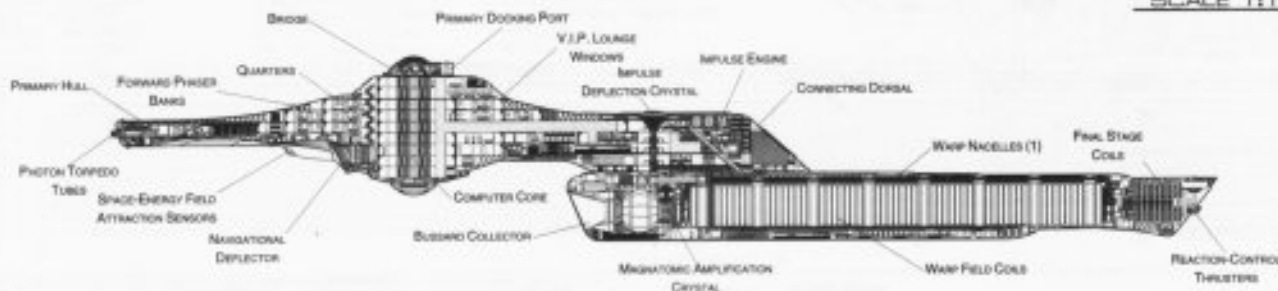
LIGHT DESTROYER

LYNCH CLASS

FEDERATION VESSEL



PORT PROFILE



CROSS SECTION

Statistics

Classification: Light Destroyer
Category: Destroyer
Class: Lynch
Type: Class II
Model: MK-XXXVIIA
Naval Construction Contract: 500
Number Proposed: 69
Number Constructed: 69
Number in Service: 67
Number Lost: 2
Dimensions:
Overall Dimensions (Meters)
 Length: 263.28 m
 Width: 137.43 m
 Height: 44.02 m
Primary Hull Dimensions (Meters)
 Length: 147.41 m
 Width: 137.43 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 85585 mt
 Standard: 91695 mt
 Full Load: 102360 mt
Performance:
Impulse Units: Dual Unit (IP1186E2-IN)
Impulse Engine Output: 7.6×10^{13} W
Impulse Power Index: 2.15
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.093 sec.
 0.25-0.50 Impulse: 0.139 sec.
 0.50-0.75 Impulse: 0.186 sec.
 0.75-Full Impulse: 0.232 sec.
Warp Units: 2 Nacelle Units (SW52/1-SRA)
Warp Engine Output: 6×10^{14} W
Warp Power Index: 1.08

Optimum Speed: 4
Max. Safe Cruising: 6
Emergency Speed: 8.01
Max. Speed: 9.11
Destructive Speed: 9.26
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.186 sec.
 Warp 2 - Warp 3: 0.297 sec.
 Warp 3 - Warp 4: 1.123 sec.
 Warp 4 - Warp 5: 1.615 sec.
 Warp 5 - Warp 6: 1.727 sec.
 Warp 6 - Warp 7: 1.856 sec.
 Warp 7 - Warp 8: 2.395 sec.
 Warp 8 - Warp 9: 3.426 sec.
 Warp 9 - Warp 9.5: 7.612 sec.
 Warp 9.5 - Warp 9.75: 8.519 sec.
 Warp 9.75 - Warp 9.9: 18.280 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 320
Officers: 53
Crew (Ensign Grade): 257
Troops: 10
Passengers: 26
Emergency condition: + 427
Medical Facilities:
 Doctors: 3
Medical Staff: 7
Operating Rooms: 2
Beds: 16
Laboratories: 4
Transporters Total: 7
 1 Person: 0
 2 Person: 0
 6 Person: 3
 12 Person: 0
 22 Person: 2
 Small Cargo: 1
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

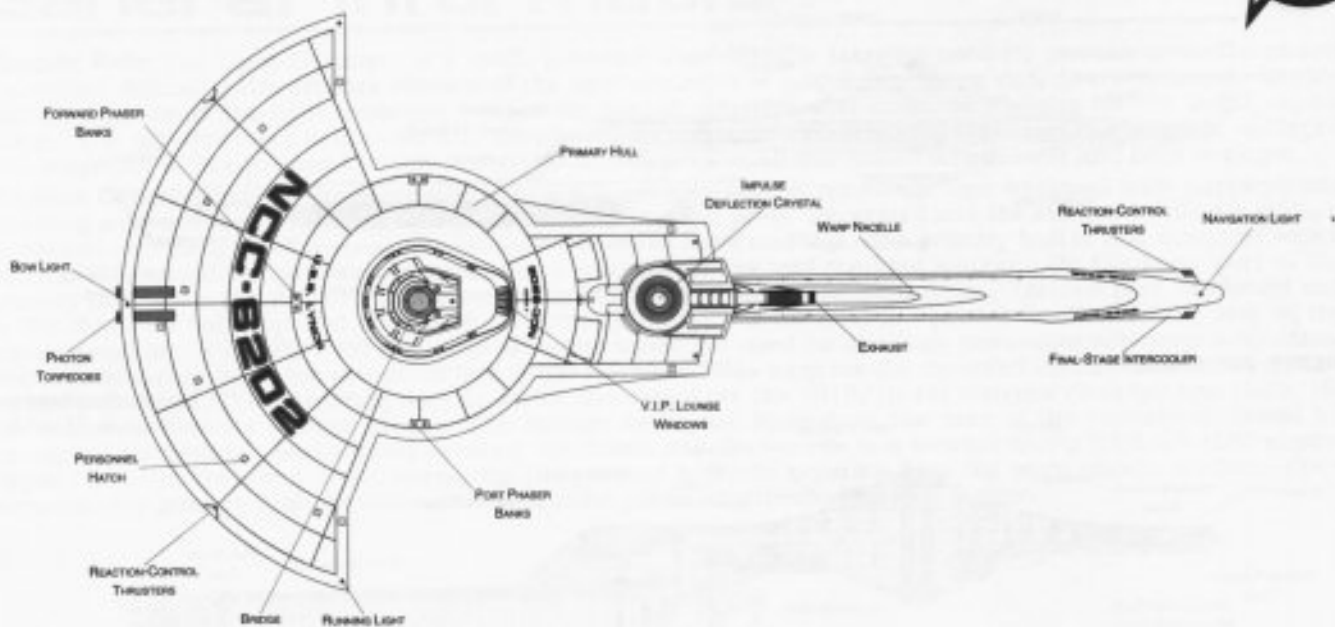
Brigs: 10
Replicators: 7
Tractor Beams: 1
 Tow Capacity: 1.5×10^8 mt
 Max Range: 7.5×10^4 km
Cargo Specification:
 Standard Cargo Units: 166
 Cargo Capacity: 8300 mt
Shuttlecraft Specifications:
Docking Ports: 2
Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 15
Work Bees: 1
Travel Pods: 1
Aquatic Shuttle: 1
Light Shuttle: 0
Standard Shuttle: 1
Heavy Shuttle: 1
Cargo Shuttle: 1
Assault Shuttle: 1
Killer Bees: 2
Light Fighter: 2
Fighter: 2
Heavy Fighter: 2
Lifeboats: 20
 TurboLift (8 person): 11
 Lifeboat (10 person): 12
 Lifeboat (20 person): 5
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 1.31
 Stellar Survey: 1.11
 Short Range: 1.33
 Long Range: 1.12
 Navigation: 1.31
 Special: 1.83
Computers: 2
 Type: Daystrom Duotronic 1-IIIz
 Type: Daystrom Duotronic 1-IIIz

ECM Index: 1.19
Shield Rating:
Shield Index: 2.81
Holdoff Power: 4.23×10^{12} W
Refresh Rate: 1.2×10^{12} W
Breakdown Rate: 1.44×10^{12} W
Shield Dimensions (Meters)
 Length: 394.9 m
 Width: 206.1 m
 Height: 66 m
Weapons:
Phaser Power Index: 1.44
Photon Power Index: 2.59
Vessel Power Index: 2.01
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^5 km
 Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 0
Port Banks: 2
Starboard Banks: 2
Upper Banks: 0
Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
 Stock: 30
 Range: 2×10^5 km
 Output: 10-50 MT
 Rate of Fire: 10 spm
Forward Bay: 1
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

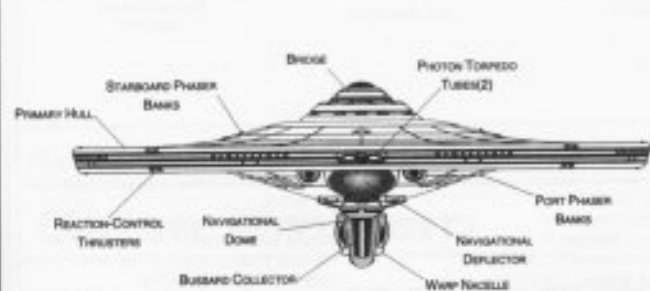
LIGHT DESTROYER



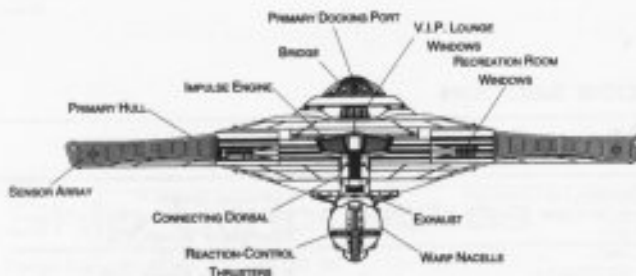
LYNCH CLASS



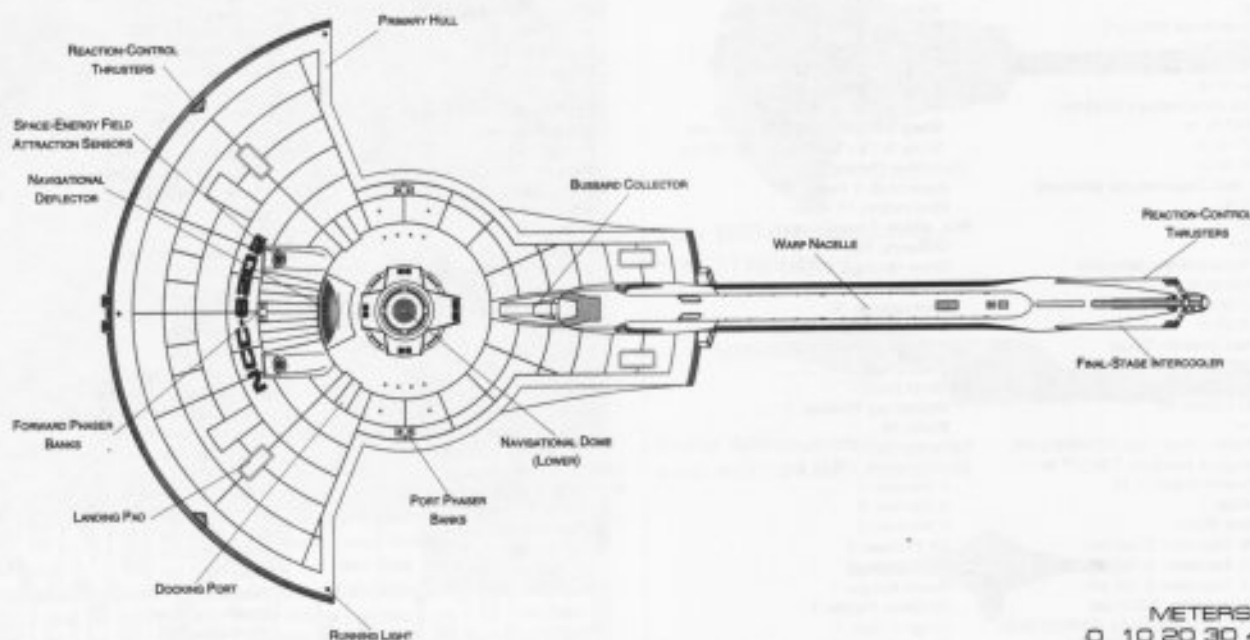
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE



FEDERATION VESSEL

LIGHT DESTROYER



Ship Names

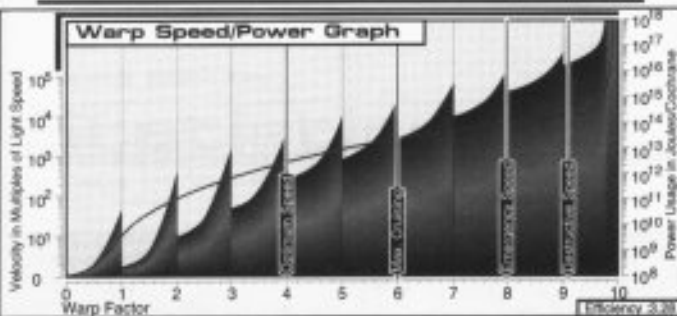
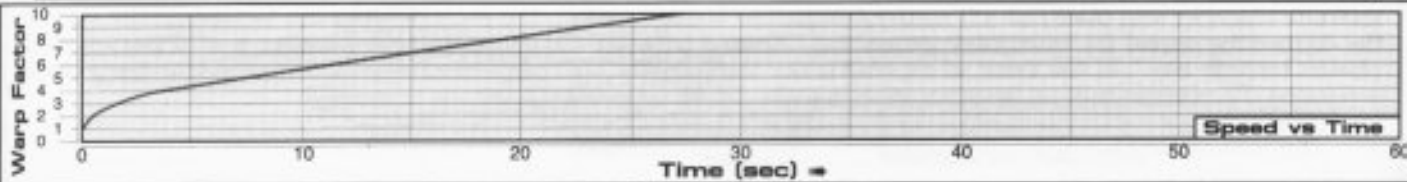
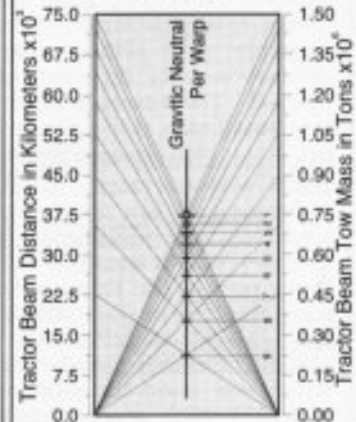
THE FOLLOWING SHIPS OF THE MK-XXXVIIa CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2269.10

ALTMAN •NCC-6229	HENSON •NCC-6255	MINNELLI •NCC-6230	WELLES •NCC-6278
ATTENBOROUGH •NCC-6211	HILLER •NCC-6281	NOLAN •NCC-6240	WILDER •NCC-6203
BADHAM •NCC-6279	HITCHCOCK •NCC-6232	OZ •NCC-6227	WISE •NCC-6262
BERGMAN •NCC-6272	HOPPER •NCC-6263	PECKINPAH •NCC-6235	ZEFFIRELLI •NCC-6231
BERKELEY •NCC-6242	HOWARD •NCC-6234	POLANSKI •NCC-6223	ZEMECKIS •NCC-6256
BOGDANOVICH •NCC-6265	HUGHES •NCC-6225	POLLACK •NCC-6210	ZUCKER •NCC-6232
CAMERON •NCC-6274	HYAMS •NCC-6275	PREMINGER •NCC-6264	ZWICK •NCC-6277
CAPRA •NCC-6280	JEWISON •NCC-6218	RAIMI •NCC-6214	
COPPOLA •NCC-6243	KASDAN •NCC-6254	RAMIS •NCC-6208	
CORMAN •NCC-6221	KAZAN •NCC-6249	REDFORD •NCC-6258	
CRONENBERG •NCC-6247	KEATON •NCC-6266	REINER •NCC-6241	
CROWE •NCC-6246	KUBRICK •NCC-6251	REITMAN •NCC-6219	
DEMILLE •NCC-6252	KUROSAWA •NCC-6261	SCHUMACHER •NCC-6233	
DEPALMA •NCC-6205	LANG •NCC-6215	SCORSESE •NCC-6259	
DEMME •NCC-6236	LEDER •NCC-6276	SHYAMALAN •NCC-6260	
DIZNEE •NCC-6245	LEVINSON •NCC-6228	SINGER •NCC-6271	
DONNER •NCC-6217	LUCAS •NCC-6250	SODERBERG •NCC-6253 **	
EASTWOOD •NCC-6201	LUMET •NCC-6209	SPIELBERG •NCC-6257	
EMMERICH •NCC-6212	LUPINO •NCC-6267	STONE •NCC-6224	
FELLINI •NCC-6213	LYNCH •NCC-6202 *	TARANTINO •NCC-6200	
FORD •NCC-6239	MCTIERNAN •NCC-6206	TRUFFAUT •NCC-6268	
FORMAN •NCC-6226	MALLE •NCC-6270	VERHOEVEN •NCC-6216	
FOSSE •NCC-6238	MARSHALL •NCC-6248	VON STROHEIM •NCC-6207	
FRIEDKIN •NCC-6273	MENDES •NCC-6220	WATERS •NCC-6237	
GILLIAM •NCC-6244 **	MEYER •NCC-6204	WEIR •NCC-6269	

*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

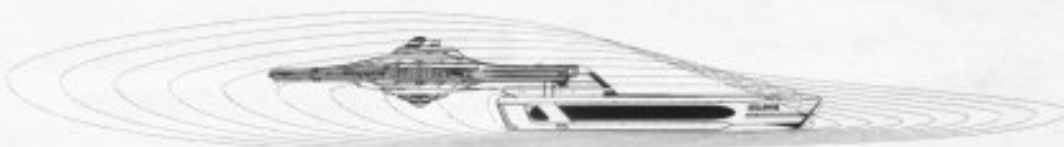
Primary Tractor Beam Load Calculator



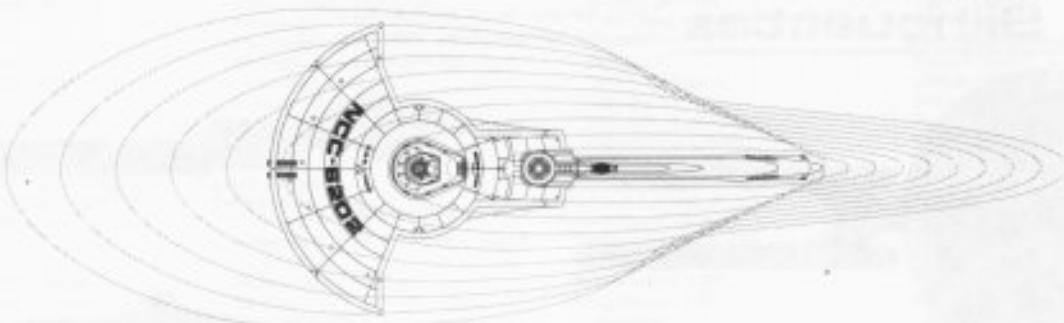
Field Length 505.36m
Field Width 150.38m
Field Height 65.94m



Front Warp Field Profile
Cross Section Area 7723.61 m²



Port Warp Field Profile
Cross Section Area 21444.37 m²



Top Warp Field Profile
Cross Section Area 47188.27 m²

LYNCH CLASS

FEDERATION VESSEL

LONG RANGE DESTROYER



PENSE CLASS

General Information

Specific Role: The Long Range Destroyer's design contains outstanding phaser power in a long range compact vessel. It was determined that there was the need for a long range destroyer to cover the expanses of the Federation Territory. The primary use of the long range destroyer is extended long range military and patrol duty. During military activity the destroyer is used for assault where a fast light ship with overwhelming phaser firepower is needed. The vessel is equipped with extensive ECM equipment to help it survive. Due to the vessel's high power and small size, it is agile and hard to target.

Physical Description: The (PH147/W-M2) primary hull is equipped with additional targeting sensors, hull reinforcements and a small hangar deck (located on the upper starboard side). Integrated into the standard deflector grid are additional electronic counter-measures to make the vessel more stealthy. The vessel is also equipped with additional inertial dampening generators to help compensate for the vessels exceptional agility. The primary hull is equipped with a (BS10/V-T3) bridge incorporating a larger weapons and tracking station. On the lower part of the primary hull is the (SM49/2H) main sensor array and (DN1/3-B) navigational dome. Below the warp nacelles is the (SME978/2A) lower sensor array. Located in notches on either side of the primary hull are the (MP1/15-2J) MegaPhasers. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2G) standard phaser banks. To the rear of the primary hull are (IP186E/4-ID) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels's warp fields are generated by two (SW52/1-4RT) warp nacelles located to either side of the photon torpedo tubes, mounted underneath the secondary hull by a (DU/32-25F) reinforced connecting dorsal. Inside the connecting dorsal are the (M20/9-2R) intermix chamber and (AM8/32-4Y) matter/antimatter storage tanks. The storage tanks are located on the rear of the connecting dorsal for emergency jettisoning. Nestled between the dorsal and the nacelles is a (PB4/25-10N) photon torpedo bay. In the event of an emergency the primary hull can separate from the warp nacelles. Once separated the primary hull can maneuver on impulse power for extended periods of time.

For additional detail refer to Datasheet MV-15

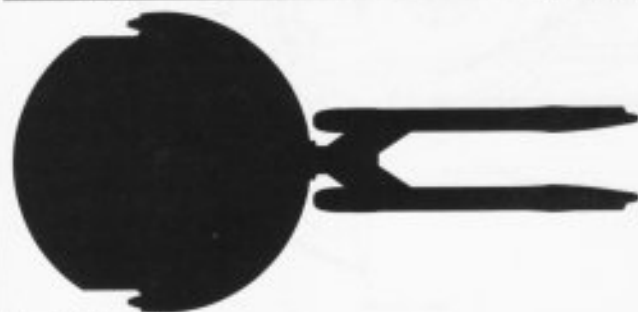
Class Emblem



FEDERATION VESSEL

Ship Silhouettes

Total Target Area 26482.40 m²
Average Target Area 8827.47 m²



Top Silhouette
Area 19552.61 m²



Port Silhouette
Area 4828.11 m²



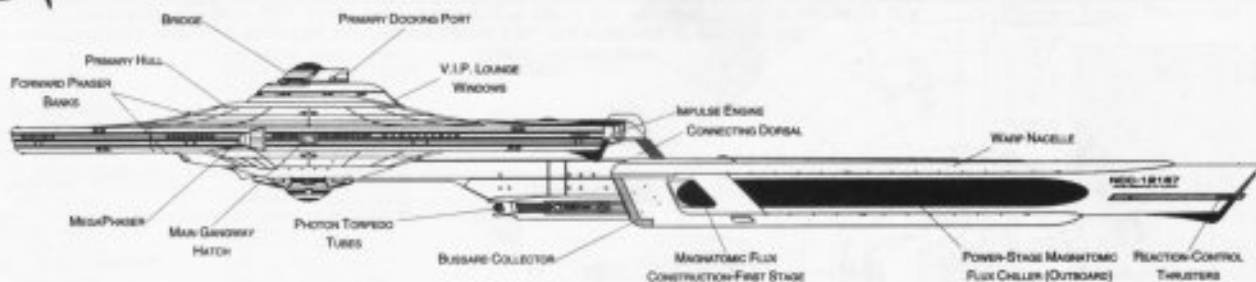
Front Silhouette
Area 2101.68 m²



LONG RANGE DESTROYER

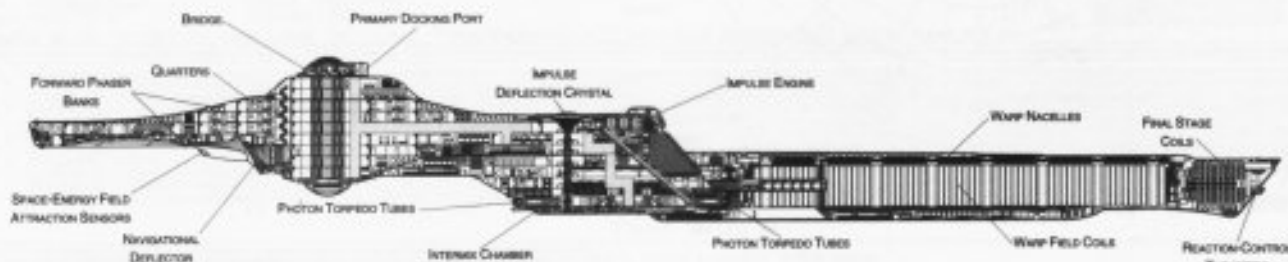
PENSE CLASS

FEDERATION VESSEL



PORT PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800



CROSS SECTION

Statistics

Classification: Long Range Destroyer

Category: Destroyer

Class: Pense

Type: Class I

Model: MK-XXXXVIIIa

Naval Construction Contract: 12167

Number Proposed: 54

Number Constructed: 54

Number in Service: 53

Number Lost: 1

Dimensions:

Overall Dimensions (Meters)

Length: 297.6 m

Width: 141.7 m

Height: 39.21 m

Primary Hull Dimensions (Meters)

Length: 148.31 m

Width: 141.72 m

Height: 32.94 m

Secondary Hull Dimensions (Meters)

Length: N/A

Width: N/A

Height: N/A

Warp Unit Dimensions (Meters)

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

Displacement (Metric Tons)

Light: 130633 mt

Standard: 139958 mt

Full Load: 156238 mt

Performance:

Impulse Units: Dual Unit (IP1186E/2-ID)

Impulse Engine Output: 7.5×10^{13} W

Impulse Power Index: 1.41

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.142 sec.

0.25-0.50 Impulse: 0.213 sec.

0.50-0.75 Impulse: 0.263 sec.

0.75-Full Impulse: 0.354 sec.

Warp Units: 2 Nacelle Units (SW52/1-5RT)

Warp Engine Output: 6×10^{14} W

Warp Power Index: 0.71

Optimum Speed: 4

Max. Safe Cruising: 6

Emergency Speed: 8.01

Max. Speed: 9.11

Destructive Speed: 9.26

Acceleration Power: 3

Acceleration Times:

Warp 1 - Warp 2: 0.283 sec.

Warp 2 - Warp 3: 0.453 sec.

Warp 3 - Warp 4: 1.715 sec.

Warp 4 - Warp 5: 2.466 sec.

Warp 5 - Warp 6: 2.636 sec.

Warp 6 - Warp 7: 2.848 sec.

Warp 7 - Warp 8: 3.656 sec.

Warp 8 - Warp 9: 5.229 sec.

Warp 9 - Warp 9.5: 11.619 sec.

Warp 9.5 - Warp 9.75: 13.461 sec.

Warp 9.75 - Warp 9.9: 27.915 sec.

Duration (Years)

Standard: 4 Years

Maximum: 16 Years

Std. Ships Complement: 321

Officers: 53

Crew (Ensign Grade): 258

Troops: 10

Passengers: 26

Emergency condition: + 428

Medical Facilities:

Doctors: 3

Medical Staff: 7

Operating Rooms: 2

Beds: 16

Laboratories: 6

Transporters Total: 8

1 Person: 0

2 Person: 0

6 Person: 3

12 Person: 0

22 Person: 3

Small Cargo: 1

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

Brigs: 15

Replicators: 11

Tractor Beams: 1

Tow Capacity: 1.5×10^6 mt

Max Range: 7.5×10^4 km

Cargo Specification:

Standard Cargo Units: 185

Cargo Capacity: 9250 mt

Shuttlecraft Specifications:

Docking Ports: 3

Shuttlecraft Bays Total: 1

Small Bay: 1

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 15

Work Bees: 1

Travel Pods: 1

Aquatic Shuttle: 1

Light Shuttle: 0

Standard Shuttle: 1

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 1

Killer Bees: 2

Light Fighter: 2

Fighter: 2

Heavy Fighter: 2

Lifeboats: 31

Turbolift (8 person): 17

Lifeboat (10 person): 10

Lifeboat (30 person): 4

Lifeboat (90 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 1.31

Stellar Survey: 1.11

Short Range: 1.33

Long Range: 1.12

Navigation: 1.31

Special: 1.83

Computers: 2

Type: Daystrom Duotronic 1-81d

Type: Daystrom Duotronic 1-81o

ECM Index: 1.19

Shield Rating:

Shield Index: 1.26

Holdoff Power: 2.88×10^{12} W

Refresh Rate: 8.19×10^{11} W

Breakdown Rate: 9.82×10^{11} W

Shield Dimensions (Meters)

Length: 446.4 m

Width: 212.6 m

Height: 58.6 m

Weapons:

Phaser Power Index: 1.76

Photon Power Index: 3.39

Vessel Power Index: 2.57

Weapon Placement:

Beam (Phasers) Total: 6 banks 2 each

Output: 5×10^{11} W 2.5×10^{11} W

Range: 2.5×10^6 km

Rate of Fire: 30 ppm/Cont.

Forward Banks: 2

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhasers) Total: 2

Output: 2.6×10^{12} W 1.3×10^{12} W

Range: 1×10^6 km

Rate of Fire: 15 ppm

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 4 Bays

Stock: 30

Range: 2×10^6 km

Output: 10-50 MT

Rate of Fire: 10 spm

Forward Bay: 1

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

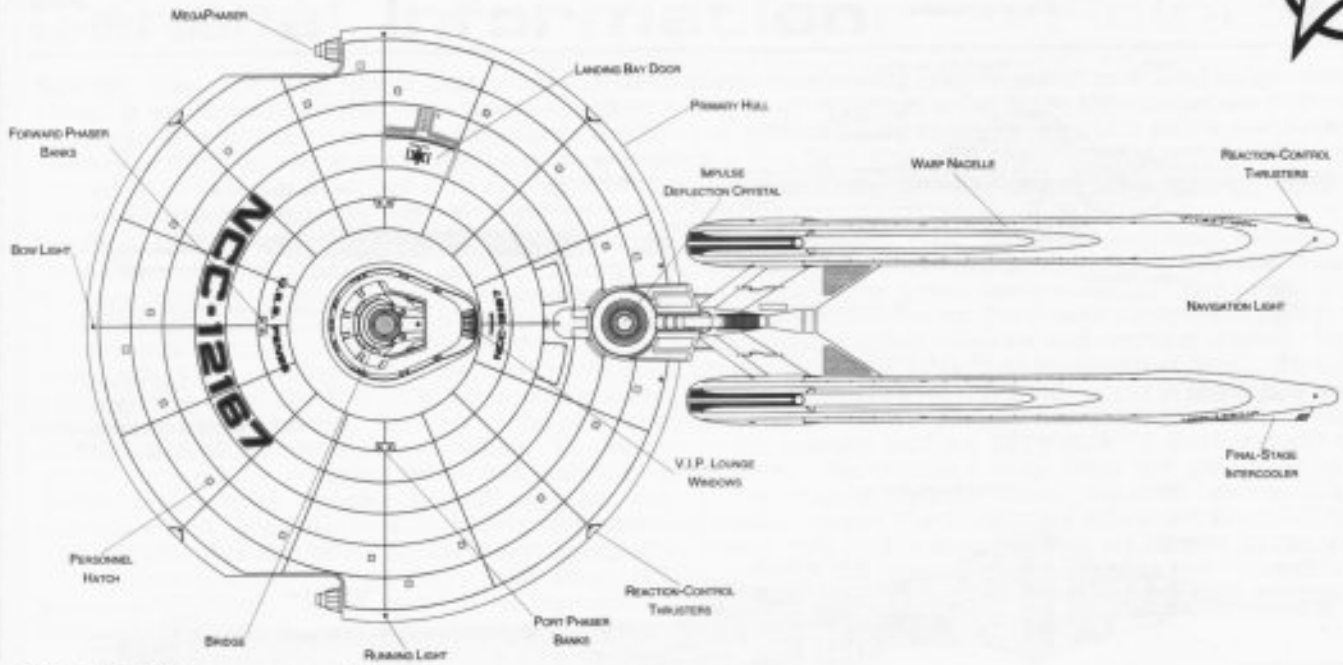
Upper Bay: 0

Lower Bay: 0

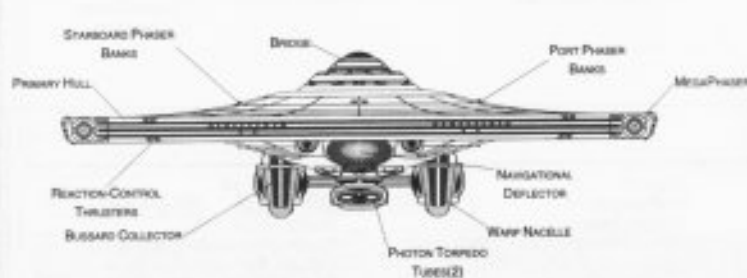
LONG RANGE DESTROYER



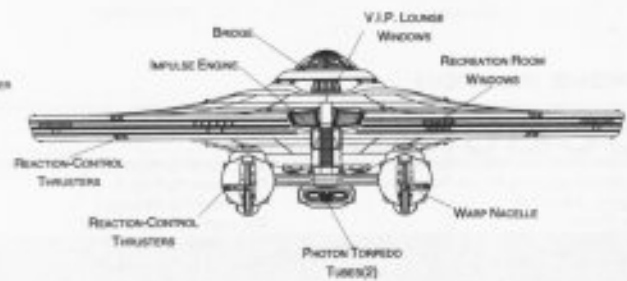
PENSE CLASS



TOP PROFILE

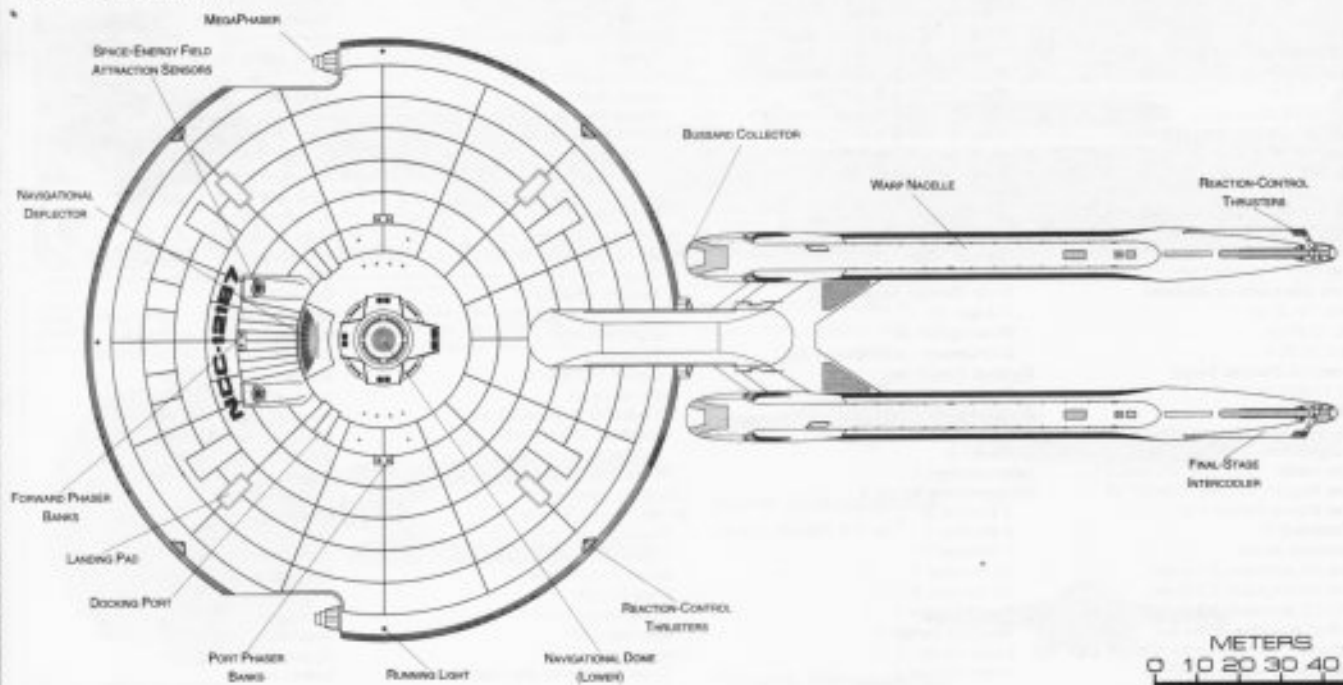


FRONT PROFILE



REAR PROFILE

FEDERATION VESSEL



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800



LONG RANGE DESTROYER

Ship Names

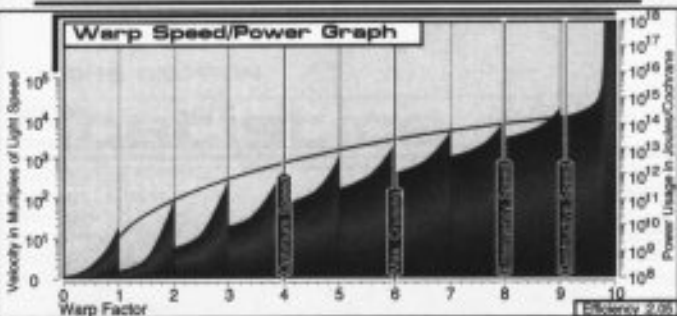
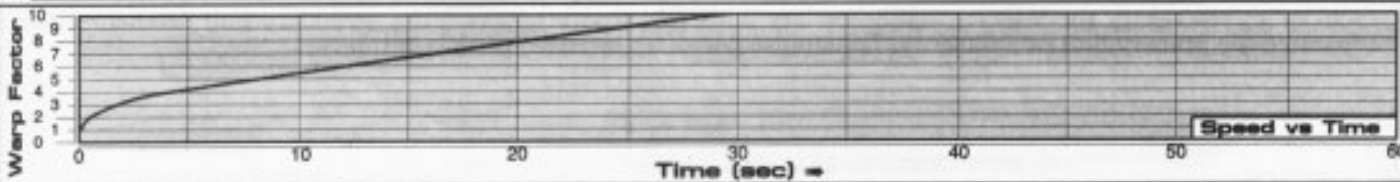
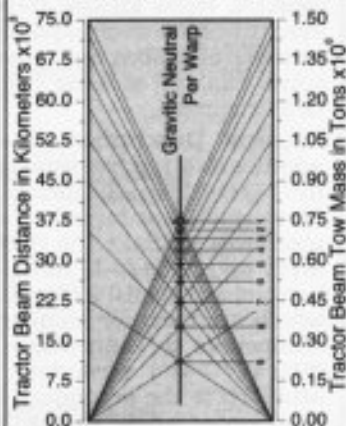
THE FOLLOWING SHIPS OF THE MK-XXXVIII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2269.10

AIKUCHI •NCC-12102	KODACHI •NCC-12126	XIPHOS •NCC-12122
ANLAGE •NCC-12111	KOGATANA •NCC-12108	ZINBA •NCC-12119
BARONG •NCC-12139	KOPIS •NCC-12132	
CAMPILAN •NCC-12120	KRIS •NCC-12138	
CHOKUTO •NCC-12143	KUKRI •NCC-12101	
CINQUEDEA •NCC-12112	KUSARIGAMA •NCC-12129	
CUTLASS •NCC-12149	LIRPA •NCC-12106	
DOTANUKI •NCC-12144	LONGSWORD •NCC-12147	
ESPADA ROPERA •NCC-12131	MACHETE •NCC-12113	
ESTOC •NCC-12137	MAKHAIIRA •NCC-12150	
FALCHION •NCC-12130 **	NAGAMAKI •NCC-12115	
FLAMBERGE •NCC-12121	NODACHI •NCC-12141	
FLYSSA •NCC-12125	PARANG •NCC-12110	
GLADIUS •NCC-12146	PENSE •NCC-12167 *	
GOLOK •NCC-12136	PINUTE •NCC-12148	
GROSSES MESSER •NCC-12117	PULWAR •NCC-12116	
HALBERD •NCC-12142	RAPIER •NCC-12100	
JIAN •NCC-12107	SAIF •NCC-12135	
JITTE •NCC-12123	SEAX •NCC-12109	
KASKARA •NCC-12134	SHAMSHIR •NCC-12124	
KHOPESH •NCC-12128	SPATHA •NCC-12105	
KILJU •NCC-12118	TACHI •NCC-12103	
KINDJAL •NCC-12148	TAKOUBA •NCC-12133	
KLIGAT •NCC-12127	TANTO •NCC-12104	
KOBUN •NCC-12140	USHAAN •NCC-12114	

*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

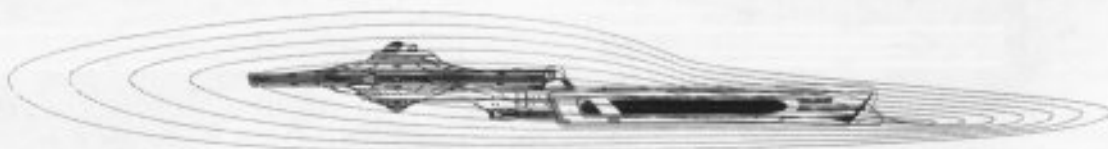
Primary Tractor Beam Load Calculator



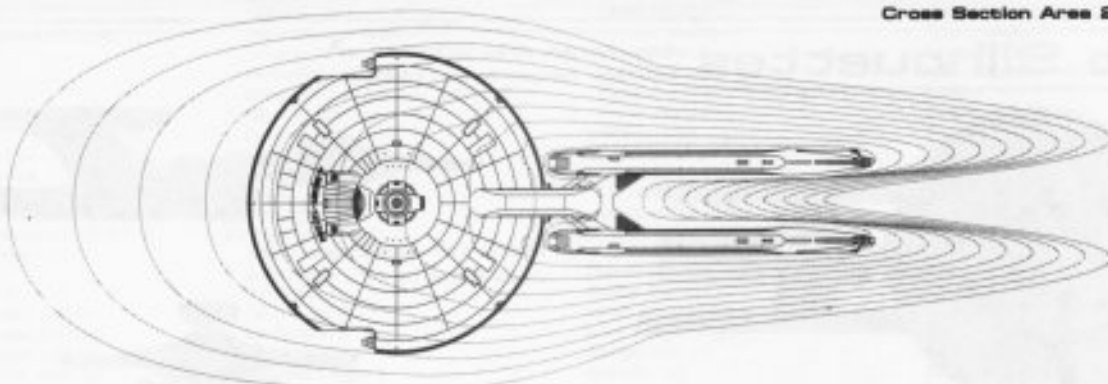
Field Length 524.86m
Field Width 178.48m
Field Height 66.67m



Front Warp Field Profile
Cross Section Area 9373.91 m²



Port Warp Field Profile
Cross Section Area 22526.89 m²



Top Warp Field Profile
Cross Section Area 65483.39 m²

PENSE CLASS

FEDERATION VESSEL

PT DESTROYER



ABBE CLASS

General Information

Specific Role: The PT Destroyer's unique design allows it deliver a formidable barrage of photon torpedoes that even the largest of capital ships find hard to defend against. The PT Destroyer can also be used when a large number of probes and sensors are to be launched. The PT destroyer's slender secondary hull has photon torpedo tubes capable of firing twice the standard firing rate. This vessel is equipped with extensive ECM equipment to help it survive.

Physical Description: The PT Destroyer incorporates a special (PH147/D-M9) primary hull equipped with additional targeting sensors, hull reinforcements and a small hangar located on the upper starboard side. The (BS11/D-R3) bridge incorporates a larger weapons and tracking station capable of monitoring and controlling up to 50 independent torpedo trajectories. Integrated into the standard deflector grid are additional electronic countermeasures to make the vessel more stealthy. On the lower part of the primary hull is the (SM49/6D) main sensor array and (DN4/3-L) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. To the rear of the primary hull are (IP186E/W:5-IG) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessel is also equipped with additional inertial dampeners to compensate for its increased maneuvering capabilities. Below the primary hull is the tri-edged (SH147/D-M9) secondary hull. The vessel's warp fields are generated by two (SW52/1-5HD) warp nacelles attached to the secondary hull by (DU/40-6C) support pylons. The low profile (PB8/200-20B) photon torpedo hull is mounted above the slender secondary hull. Inside the secondary hull is the (M30/4-2) intermix chamber and the (AM8/36-4W) matter/antimatter storage tanks which are easily jettisoned in case of an emergency. In the event of an emergency the primary and secondary hulls can separate leaving the secondary hull derelict. Once separated the primary hull can maneuver on impulse power for extended periods of time.

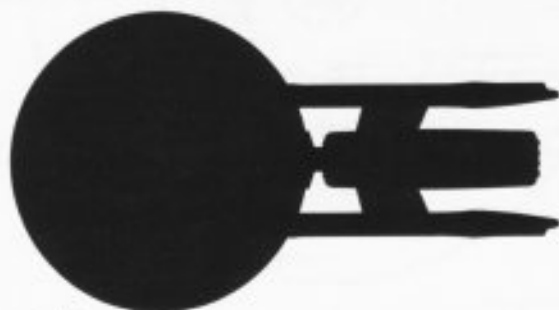
For additional detail refer to Datasheet MV-7

Class Emblem



Ship Silhouettes

Total Target Area 32337.10 m²
Average Target Area 11643.71 m²



Top Silhouette
Area 23420.07 m²



Port Silhouette
Area 6556.17 m²



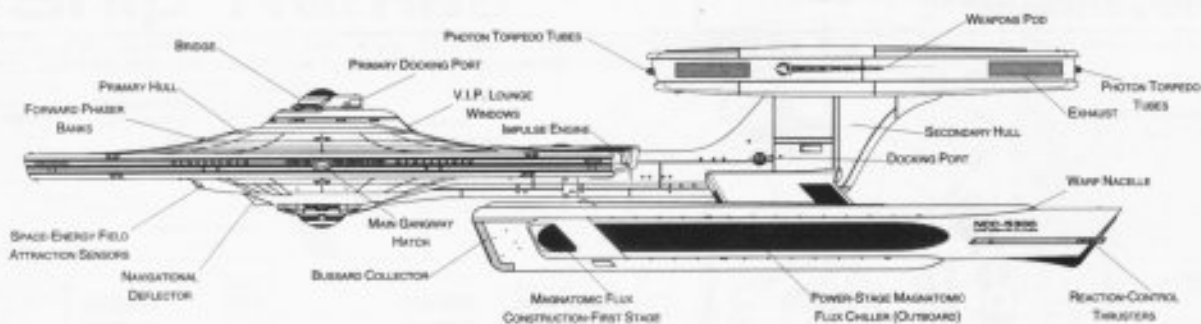
Front Silhouette
Area 2360.86 m²

FEDERATION VESSEL

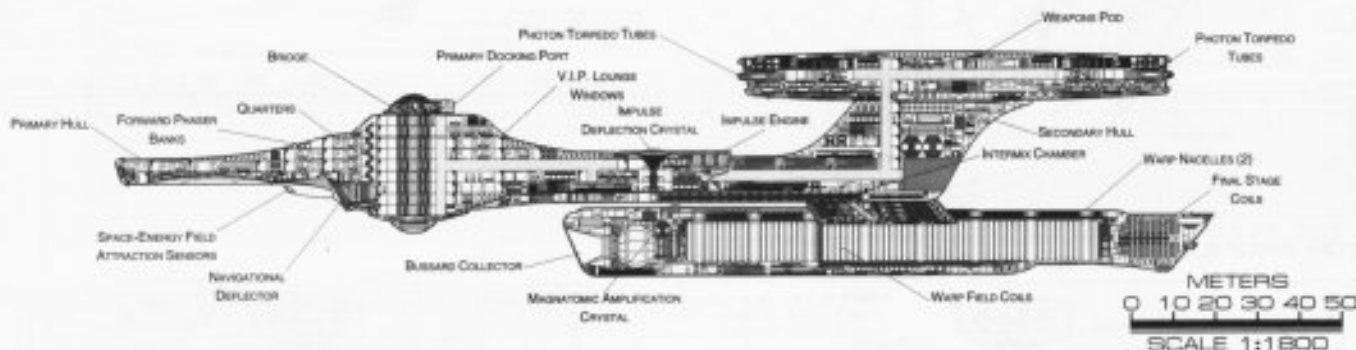


PT DESTROYER

ABBE CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: PT Destroyer
Category: Destroyer
Class: Abbe
Type: Class 1
Model: MK-XV/a
Naval Construction Contract: 5300
Number Proposed: 30
Number Constructed: 20
Number in Service: 19
Number Lost: 1

Dimensions:
Overall Dimensions (Meters)
 Length: 281.3 m
 Width: 141.72 m
 Height: 53.46 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: 134.45 m
 Width: 12.66 m
 Height: 25.44 m
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 17.02 m

Displacement (Metric Tons)
 Light: 165757 mt
 Standard: 177590 mt
 Full Load: 198247 mt

Performance:
Impulse Units: Dual Unit (IP18M/W-5-IG)
Impulse Engine Output: 7.8×10^{10} W
Impulse Power Index: 1.11
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.18 sec.
 0.25-0.50 Impulse: 0.27 sec.
 0.50-0.75 Impulse: 0.36 sec.
 0.75-Full Impulse: 0.449 sec.
Warp Units: 2 Nacelle Units (SW52/1-6HD)
Warp Engine Output: 1.2×10^{13} W
Warp Power Index: 1.11

Optimum Speed: 4
Max. Safe Cruising: 6
Emergency Speed: 8
Max. Speed: 9.06
Destructive Speed: 3.1
Acceleration Power: 9
Acceleration Times:
 Warp 1 - Warp 2: 0.18 sec.
 Warp 2 - Warp 3: 0.288 sec.
 Warp 3 - Warp 4: 1.088 sec.
 Warp 4 - Warp 5: 1.564 sec.
 Warp 5 - Warp 6: 1.672 sec.
 Warp 6 - Warp 7: 1.807 sec.
 Warp 7 - Warp 8: 2.319 sec.
 Warp 8 - Warp 9: 3.317 sec.
 Warp 9 - Warp 9.5: 7.372 sec.
 Warp 9.5 - Warp 9.75: 6.54 sec.
 Warp 9.75 - Warp 9.9: 17.71 sec.

Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 401
 Officers: 66
 Crew (Ensign Grade): 323
 Troops: 12
 Passengers: 30
 Emergency condition: + 533

Medical Facilities:
 Doctors: 4
Medical Staff: 9
 Operating Rooms: 3
 Beds: 21
Laboratories: 7
Transporters Total: 10

1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 4
 Small Cargo: 2
 Medium Cargo: 2
 Large Cargo: 0
 Super Cargo: 0

Brigs: 19
Replicators: 13
Tractor Beams: 1
 Tow Capacity: 3.88×10^8 mt
 Max Range: 6.5×10^3 km

Cargo Specifications:
 Standard Cargo Units: 363
 Cargo Capacity: 19150 mt

Shuttlecraft Specifications:
 Docking Ports: 3
 Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0

Shuttlecraft Standard: 15
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 1
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2

Lifeboats: 39
 Turbolift (8 person): 22
 Lifeboat (10 person): 12
 Lifeboat (20 person): 5
 Lifeboat (30 person): 0

Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 1.31
 Stellar Survey: 1.11
 Short Range: 1.33
 Long Range: 1.12
 Navigation: 1.31
 Special: 1.83
Computers: 2
 Type: Daystrom Duotronic 1-IIIq
 Type: Daystrom Duotronic 1-IIp

ECM Index: 1.19
Shield Rating:
 Shield Index: 0.76
 Holdoff Power: 2.23×10^{12} W
 Refresh Rate: 6.33×10^{11} W
 Breakdown Rate: 7.59×10^{11} W
Shield Dimensions (Meters)
 Length: 392 m
 Width: 212.6 m
 Height: 60.2 m

Weapons:
 Phaser Power Index: 0.74
 Photon Power Index: 71.19
 Vessel Power Index: 35.97
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
 Forward Banks: 2
 Rear Banks: 0
 Port Banks: 2
 Starboard Banks: 2
 Upper Banks: 0
 Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Torpedoes (Photon) Total: 8 Bays
 Stock: 200
 Range: 2×10^6 km
 Output: 10-50 MT
 Rate of Fire: 20 ppm
 Forward Bay: 1
 Rear Bay: 1
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

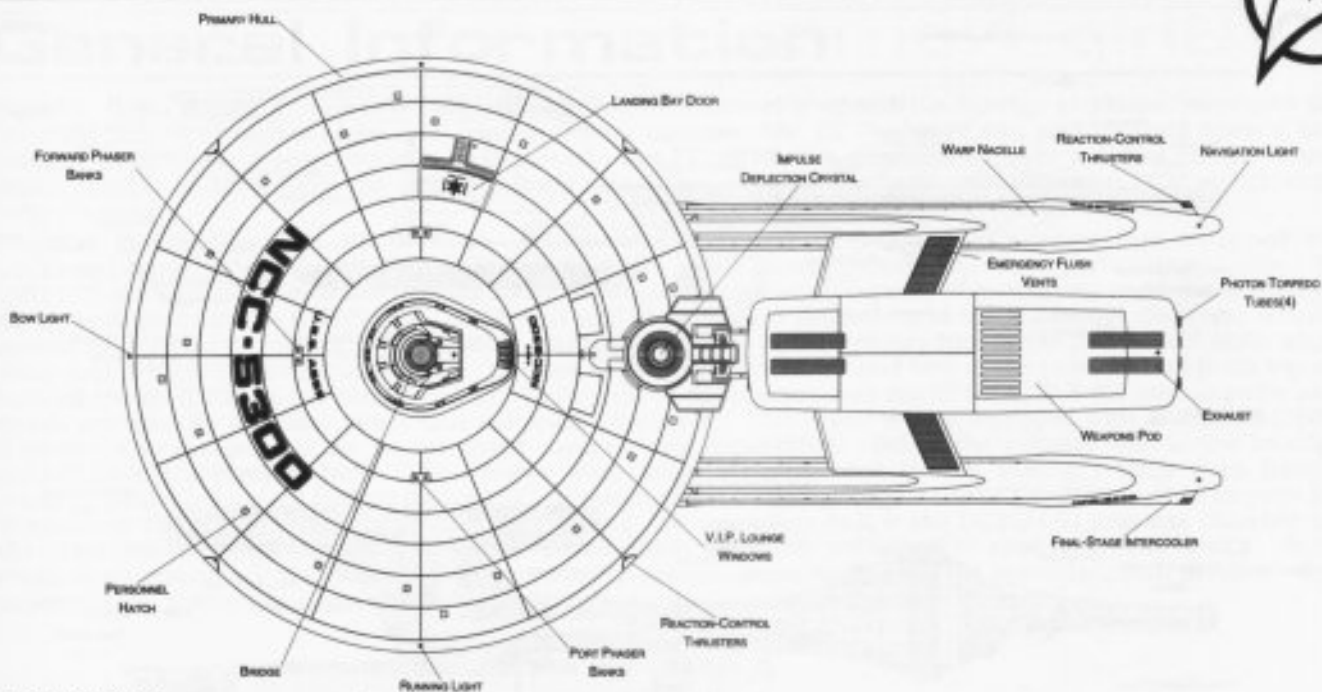
FEDERATION VESSEL

PT DESTROYER

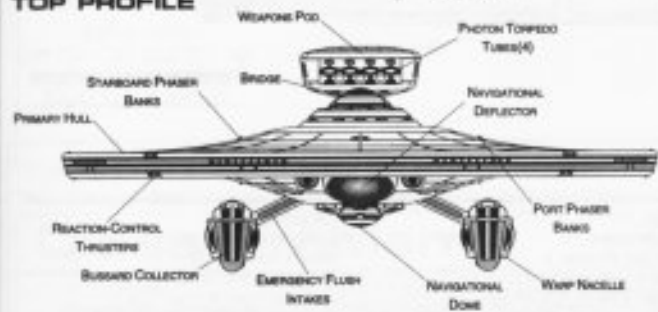


ABBE CLASS

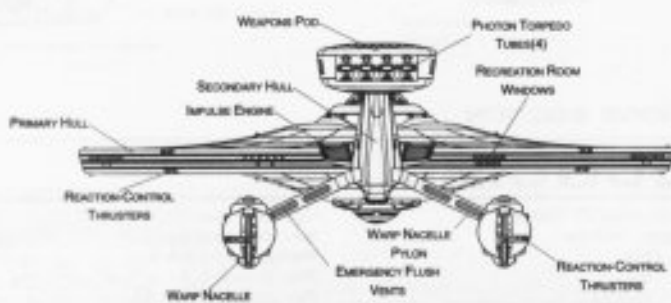
FEDERATION VESSEL



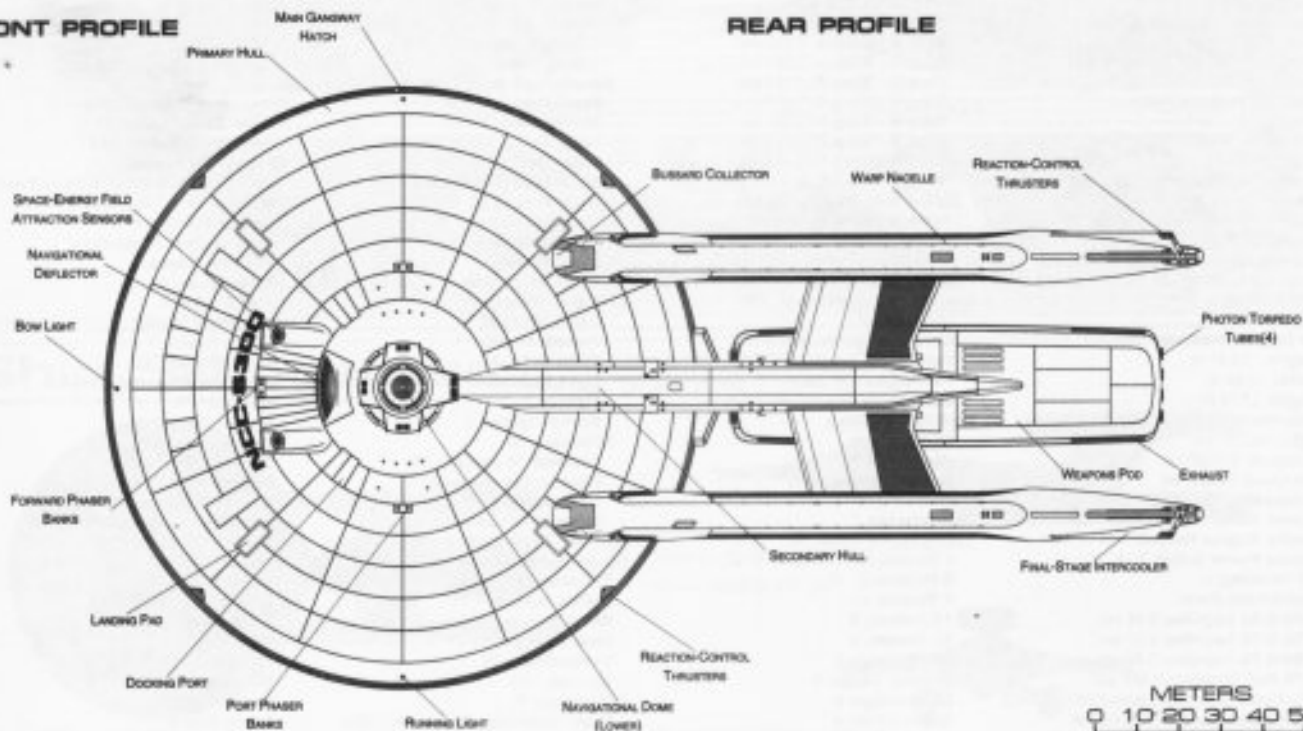
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE





PT DESTROYER

Ship Names

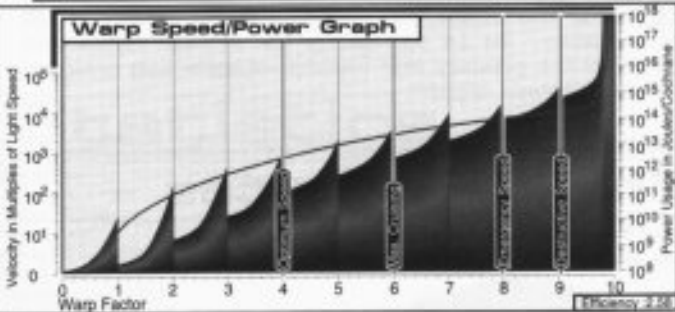
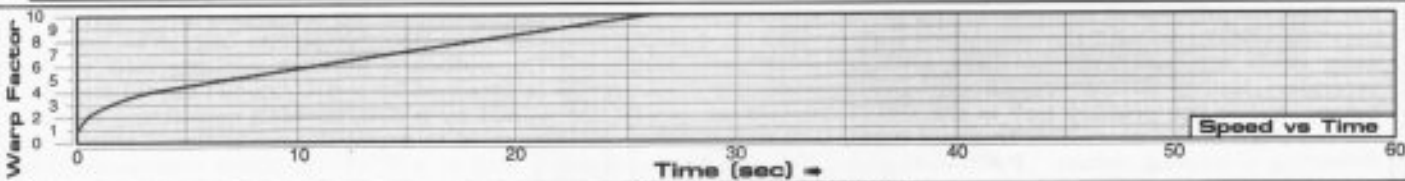
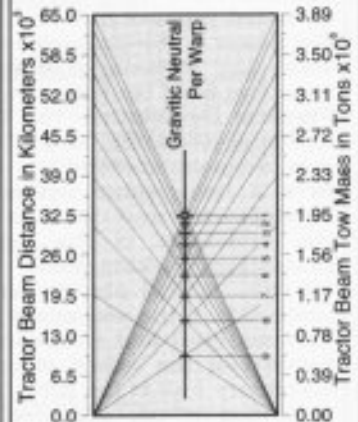
THE FOLLOWING SHIPS OF THE MK-XV_a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2270.11

ABDORIA •NCC-5318	VELXOR •NCC-5330***
ABBE •NCC-5300*	WAKINHUTCH •NCC-5314
ADAMS •NCC-5321***	WINKLER •NCC-5305
AKKARDI •NCC-5302	XE •NCC-5309**
ALUMNI •NCC-5327***	YEARKISS •NCC-5320
BRITANNIA •NCC-5311	ZHANG •NCC-5308
CAUDLE •NCC-5317	
CRUSADER •NCC-5322***	
ECLIPSE •NCC-5324***	
EDLIN •NCC-5310	
ESPREY •NCC-5312	
GIPSON •NCC-5306	
GRATTCHI •NCC-5301	
HANNOVER •NCC-5326***	
JACKA •NCC-5307	
JENSS •NCC-5316	
KELSO •NCC-5313	
KINKERSHIP •NCC-5323***	
MADDOX •NCC-5315	
MGLISTER •NCC-5325***	
MILLIAN •NCC-5303	
PAXTON •NCC-5319	
QUAID •NCC-5328***	
SKETTERS •NCC-5304	
STALLINGS •NCC-5329***	

*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

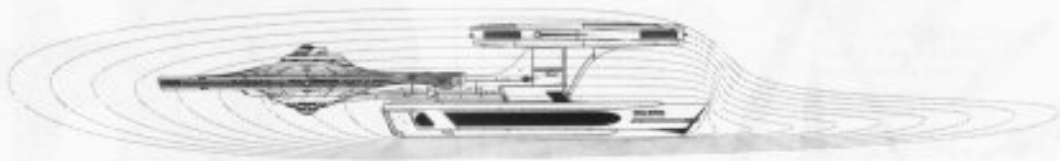
Primary Tractor Beam Load Calculator



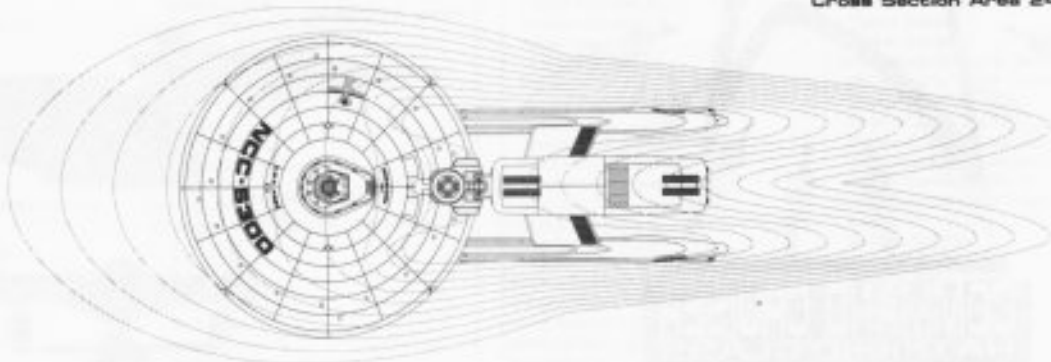
Field Length 496.25m
Field Width 187.69m
Field Height 76.20m



Front Warp Field Profile
Cross Section Area 9953.45 m²



Port Warp Field Profile
Cross Section Area 24517.43 m²



Top Warp Field Profile
Cross Section Area 56956.35 m²

ABBE CLASS

FEDERATION VESSEL

COMMAND CRUISER



General Information

Specific Role: The Command Cruiser is a reasonably swift and extremely powerful vessel. The addition of an extended primary hull and a third warp nacelle give the vessel outstanding reserves, acceleration, top speed and fire power. The primary mission of the Command Cruiser is to serve as a flagship for fleet engagement. The secondary mission is diplomatic enforcement between quarreling allied worlds. The vessel is equipped with extensive ECM equipment to help it survive.

Physical Description: The Command Cruiser's (PHE147/C-M2) extended primary hull contains extremely heavy weapons, shielding, and ECM/ECCM devices; as well as a (BS9/C-S2) multi-tiered strategic bridge which includes dual weapons stations and an additional tracking station. Within the strategic bridge suspended between the two tiers a holographic battle-field display gives the Fleet Commander an immediate heads-up on battle-field developments and can also be used to run battle-plan simulations and probable counter-strategies. Mounted on the underside of the primary hull are the integrated (SM49/5J) main sensor array and (DNS4/5-X) navigation/tracking dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. To the rear of the secondary hull are the (BP2/30-2C) phaser banks. On the underside of the secondary hull are two additional (BP2/30-2C) phaser banks. Above the primary hull extension mounted port and starboard are two (MP2/15-2G) MegaPhasers. Port and starboard on the upper primary hull forward of the raised extension, are supplementary (DN2/T-4.2) navigational deflectors. To the front of the secondary hull is the (DN2/D-9) primary navigational deflector used to assist the navigational shields in deflecting oncoming debris. Mounted on the rear of the primary hull are (IRF35E/4-IR) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on the starboard side of the impulse engines in the rear of the primary hull and the second at the rear of the secondary hull. Inserted between the dorsal and the secondary hull is a forward facing (PB2/25-10G) photon torpedo bay. The vessel's warp fields are generated by three (SW52/1-5RT) warp nacelles. The outboard nacelles are attached to the secondary hull by (DU/47-7F) support pylons while the third nacelle is attached by a (DU/22-5F) dorsal support pylon. Below the primary hull is the (SH117/C-H2) secondary hull joined by a (DU/50-48C) connecting dorsal. On the front of the secondary hull is a (DN2/D-9) navigational deflector used to assist the navigational shields in deflecting oncoming debris. Positioned along the rear of the primary hull is a (CA4/CC-200X) communication array designed for communication with the rear flanks as the fleet is advancing. Starting in the bottom of the secondary hull and running through the connecting dorsal to the top of the primary hull is the (M25/18-2E) intermix chamber and (AM8/48-5T) matter/antimatter storage tanks. In an emergency the storage tanks and intermix chamber can be jettisoned. In the event of an emergency the primary and secondary hulls can separate and the primary hull can maneuver on impulse power for extended periods of time.

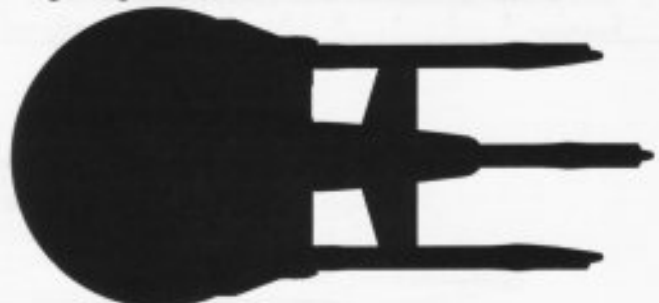
For additional detail refer to Datasheet MV-17

Class Emblem



Ship Silhouettes

Total Target Area 40030.25 m²
Average Target Area 13343.42 m²



Top Silhouette
Area 27229.30 m²



Port Silhouette
Area 9050.95 m²

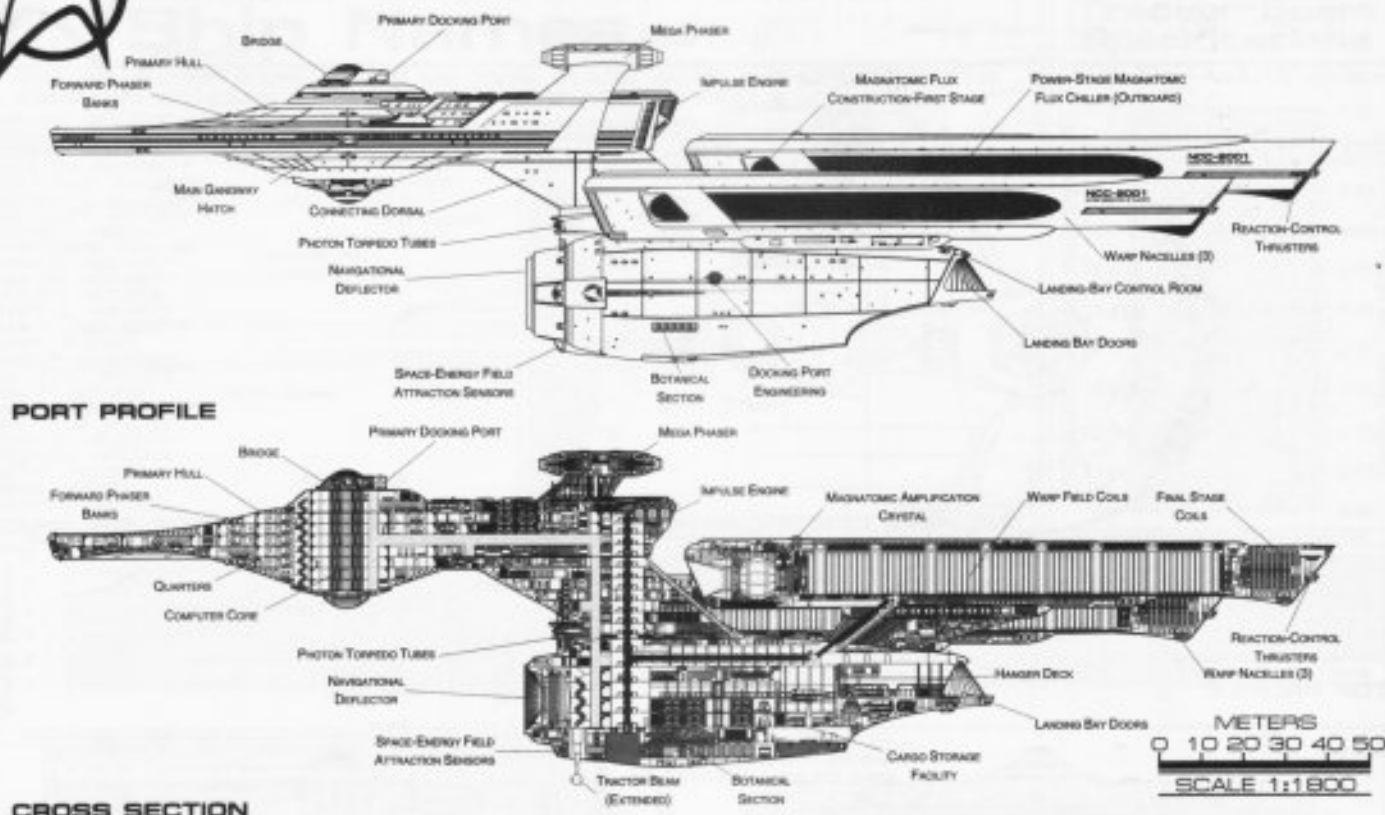


Front Silhouette
Area 3750.00 m²



COMMAND CRUISER

HATFIELD CLASS



PORT PROFILE

CROSS SECTION

Statistics

Classification: Command Cruiser

Category: Cruiser

Class: Hatfield

Type: Class I

Model: MK-XVIIIa

Naval Construction Contract: 2000

Number Proposed: 30

Number Constructed: 20

Number Lost: 19

Number Lost: 1

Dimensions:

Overall Dimensions (Meters)

Length: 305.83 m

Width: 141.72 m

Height: 76.05 m

Primary Hull Dimensions (Meters)

Length: 146.31 m

Width: 141.72 m

Height: 32.94 m

Secondary Hull Dimensions (Meters)

Length: 121 m

Width: 32.9 m

Height: 47.5 m

Warp Unit Dimensions (Meters)

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

Displacement (Metric Tons)

Light: 288589 mt

Standard: 309190 mt

Full Load: 345155 mt

Performance:

Impulse Units: Dual Unit (IRF35E/4-IR)

Impulse Engine Output: 7.8×10^{13} W

Impulse Power Index: 0.64

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.313 sec.

0.25-0.50 Impulse: 0.47 sec.

0.50-0.75 Impulse: 0.626 sec.

0.75-Full Impulse: 0.783 sec.

Warp Units: 2 Nacelle Units (SW52/1-5RT)

Warp Engine Output: 1.2×10^{16} W

Warp Power Index: 0.96

Optimum Speed: 5

Max. Safe Cruising: 7

Emergency Speed: 8.5

Max. Speed: 9.15

Destructive Speed: 9.26

Acceleration Power: 3

Acceleration Times:

Warp 1 - Warp 2: 0.209 sec.

Warp 2 - Warp 3: 0.334 sec.

Warp 3 - Warp 4: 1.293 sec.

Warp 4 - Warp 5: 1.816 sec.

Warp 5 - Warp 6: 1.941 sec.

Warp 6 - Warp 7: 2.097 sec.

Warp 7 - Warp 8: 2.692 sec.

Warp 8 - Warp 9: 3.65 sec.

Warp 9 - Warp 9.5: 8.556 sec.

Warp 9.5 - Warp 9.75: 9.913 sec.

Warp 9.75 - Warp 9.9: 20.556 sec.

Duration (Years)

Standard: 4 Years

Maximum: 16 Years

Std. Ships Complement: 520

Officers: 82

Crew (Ensign Grade): 400

Troops: 38

Passengers: 40

Emergency condition: + 663

Medical Facilities:

Doctors: 5

Medical Staff: 11

Operating Rooms: 4

Beds: 25

Laboratories: 22

Transporters Total: 16

1 Person: 0

2 Person: 0

6 Person: 5

12 Person: 0

22 Person: 5

Small Cargo: 3

Medium Cargo: 3

Large Cargo: 0

Super Cargo: 0

Brigs: 35

Replicators: 39

Tractor Beams: 1

Tow Capacity: 5.65×10^8 mt

Max Range: 1.1×10^5 km

Cargo Specification:

Standard Cargo Units: 520

Cargo Capacity: 26000 mt

Shuttlecraft Specifications:

Docking Ports: 6

Shuttlecraft Bays Total: 2

Small Bay: 0

Medium Bay: 2

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 60

Work Bees: 5

Travel Pods: 5

Aquatic Shuttle: 2

Light Shuttle: 2

Standard Shuttle: 2

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 6

Killer Bees: 7

Light Fighter: 10

Fighter: 10

Heavy Fighter: 7

Lifeboats: 60

Turbolift (8 person): 39

Lifeboat (10 person): 15

Lifeboat (20 person): 6

Lifeboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 1.60

Stellar Survey: 1.32

Short Range: 1.46

Long Range: 1.20

Navigation: 1.22

Special: 2.64

Computers: 3

Type: Daystrom Duotronic 2-81x2

Type: Daystrom Duotronic 1-81b

ECM Index: 1.21

Shield Rating:

Shield Index: 0.14

Holdoff Power: 7.08×10^{11} W

Refresh Rate: 2.01×10^{11} W

Breakdown Rate: 2.41×10^{11} W

Shield Dimensions (Meters)

Length: 458.7 m

Width: 212.6 m

Height: 114.1 m

Weapons:

Phaser Power Index: 1.01

Photon Power Index: 0.64

Vessel Power Index: 0.82

Weapon Placement:

Beam (Phasers) Total: 9 banks 2 each

Output: 5×10^{11} W 2.5×10^{11} W

Range: 2.5×10^5 km

Rate of Fire: 30 ppm/Cont.

Forward Banks: 2

Rear Banks: 1

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 2

Beam (MegaPhasers) Total: 2

Output: 2.8×10^{12} W 1.3×10^{12} W

Range: 1×10^5 km

Rate of Fire: 15 ppm

Forward/Rear Banks: 2

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 2 Bays

Stock: 25

Range: 2×10^5 km

Output: 10-50 MT

Rate of Fire: 10 spm

Forward Bay: 1

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

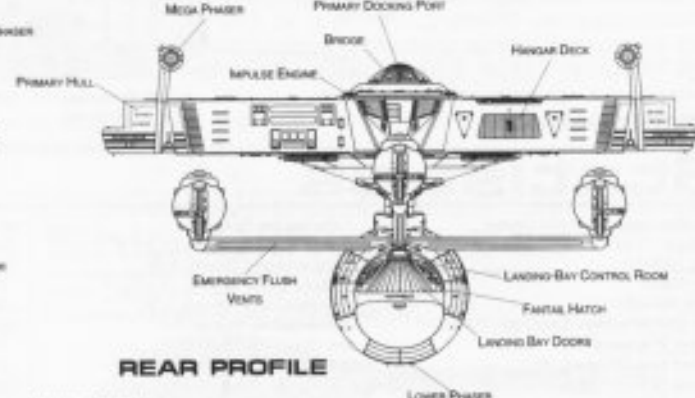
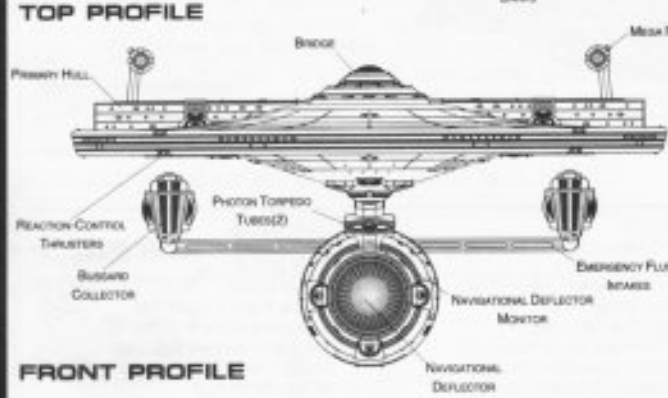
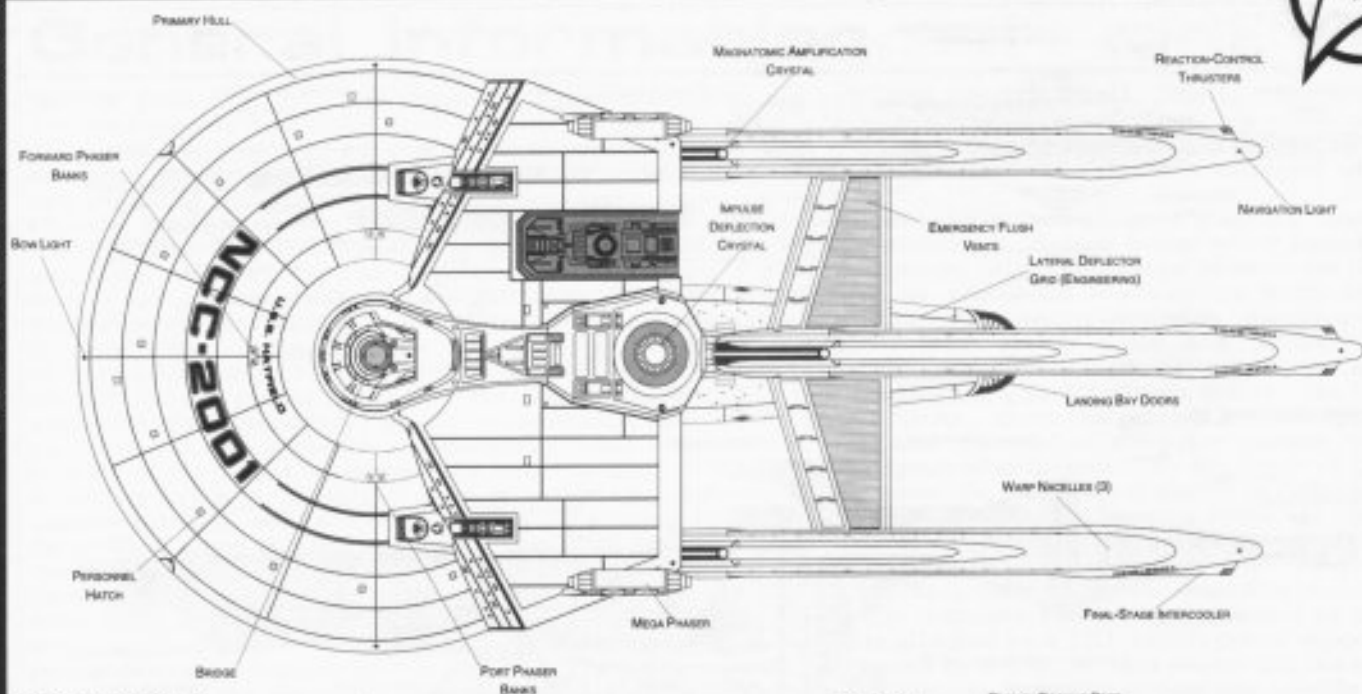
Lower Bay: 0

FEDERATION VESSEL

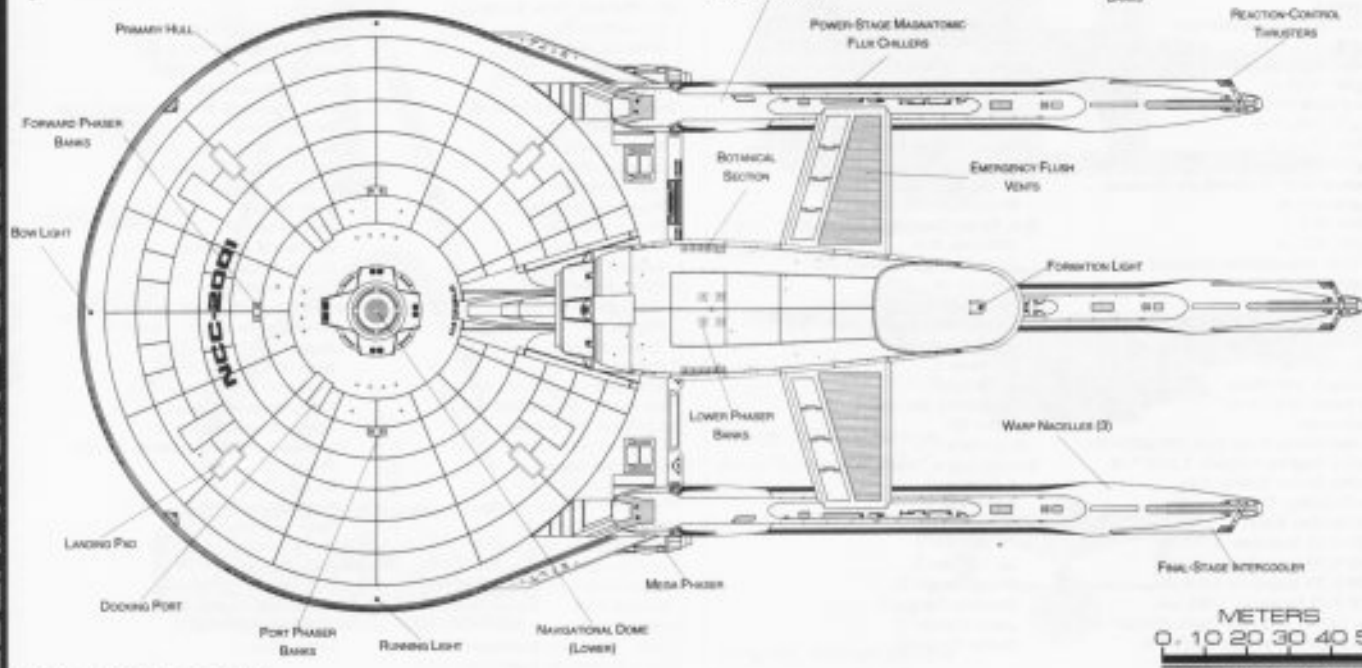
COMMAND CRUISER



HATFIELD CLASS



FEDERATION VESSEL



METERS
0 10 20 30 40 50
SCALE 1:1800



COMMAND CRUISER

Ship Names

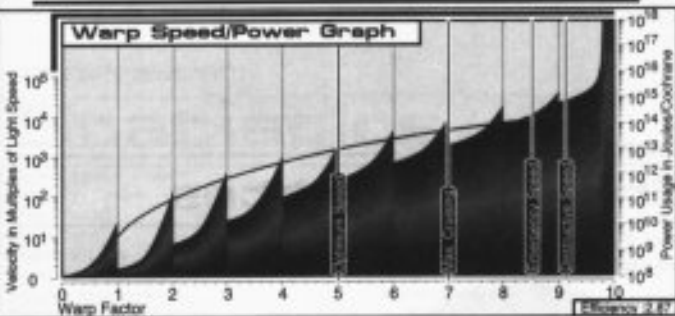
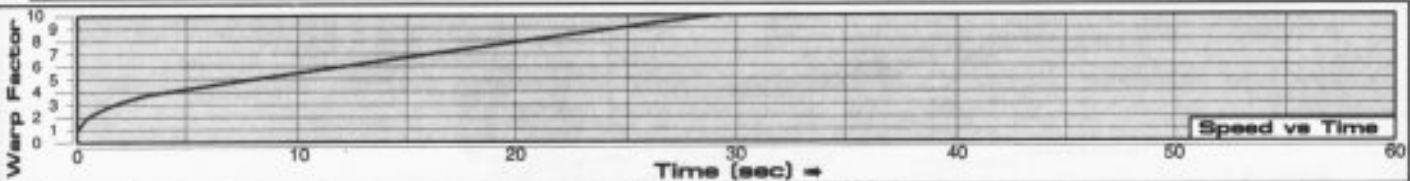
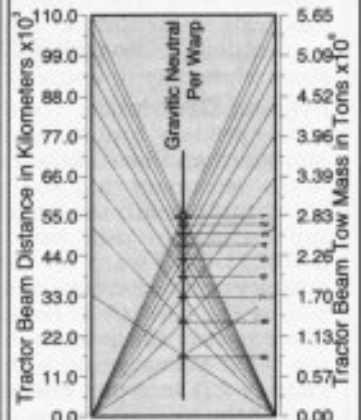
THE FOLLOWING SHIPS OF THE MK-XVIII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2271.4

- | | |
|------------------------|-----------------------|
| ARCHIVE •NCC-2015** | SUNDBURG •NCC-2011 |
| BIGGLER •NCC-2008 | TRANSEAFER •NCC-2002 |
| CENDRA •NCC-2019 | TUTEN •NCC-2016 |
| COULTON •NCC-2031*** | WILDFIRE •NCC-2027*** |
| CULPEPPER •NCC-2026*** | YOSHIDA •NCC-2023*** |
| DIERINGER •NCC-2029*** | ZAUER •NCC-2005 |
| DILLWORTH •NCC-2022*** | |
| HATFIELD •NCC-2001* | |
| HENDERSON •NCC-2009 | |
| HEWLER •NCC-2030*** | |
| JABLOW •NCC-2025*** | |
| JUSTICE •NCC-2018 | |
| KRACKEL •NCC-2013 | |
| LUKERT •NCC-2020 | |
| LYON •NCC-2007 | |
| MASTER •NCC-2025*** | |
| MAUSTON •NCC-2012 | |
| McCOY •NCC-2002 | |
| MICKHALE •NCC-2024*** | |
| NAVERONE •NCC-2021 | |
| NAZAREK •NCC-2010 | |
| PEDROSO •NCC-2004 | |
| QUIRE •NCC-2017 | |
| RUSK •NCC-2014 | |
| SILENCIO •NCC-2006 | |

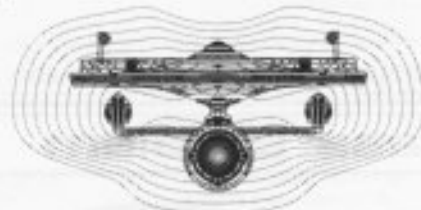
*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED, ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

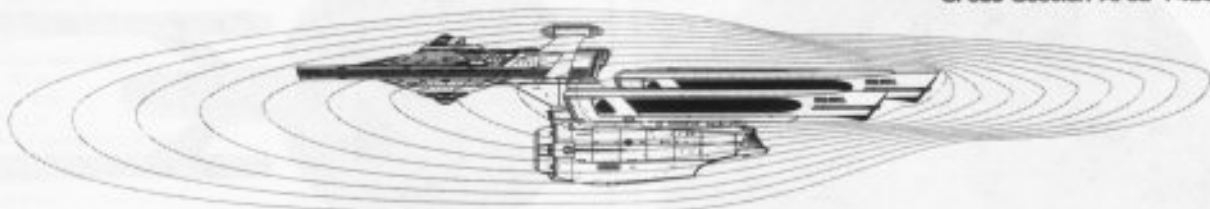
Primary Tractor Beam Load Calculator



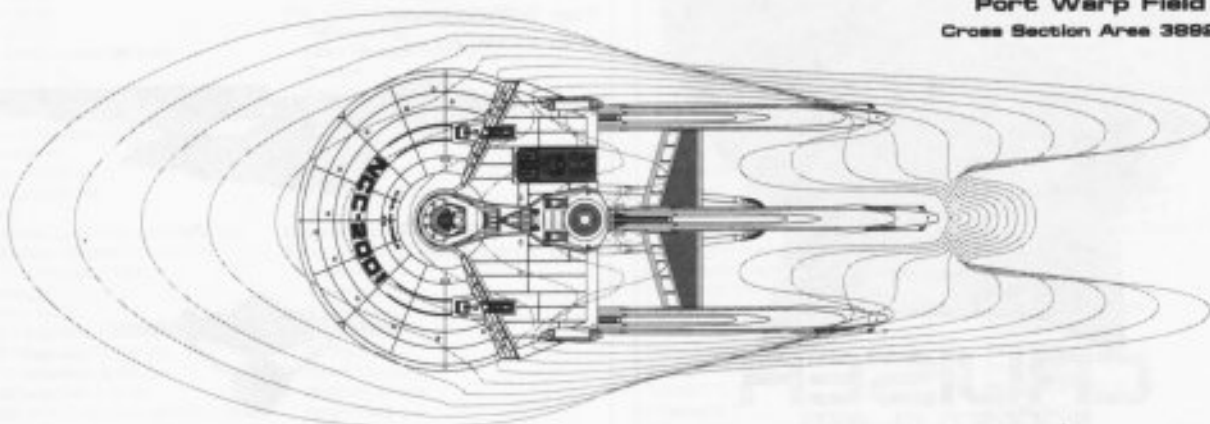
Field Length 571.63m
Field Width 195.34m
Field Height 98.14m



Front Warp Field Profile
Cross Section Area 14900.98 m²



Port Warp Field Profile
Cross Section Area 38921.97 m²



Top Warp Field Profile
Cross Section Area 77056.62 m²

HATFIELD CLASS

FEDERATION VESSEL

CRUISER



General Information

Specific Role: The Cruiser is the backbone of the Federation for exploration and defense. It is equipped with moderate laboratories, standard weapons systems and defensive ECM equipment. Its primary mission is exploration, however it is also used for perimeter defense and diplomatic duty. The Cruiser is often used as a research facility in areas too dangerous for lightly armed dedicated research vessels.

Physical Description: The (PH147/C-L3) primary hull is equipped with the (BS10/C-U4) bridge. On the lower part of the primary hull is the (SM49/6G) main sensor array and (DN4/3N) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Towards the rear of the secondary hull above the hangar deck are two (BP2/30-2C) phaser banks. A single photon torpedo bay is slung underneath the front of the secondary hull. To the rear of the primary hull are (IRF35E/3-GB) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels's warp fields are generated by two (SW52/1-5AC) warp nacelles attached to the (SH129/C-L2) secondary hull by (DU/29-6F) support pylons. The primary and secondary hulls are joined by a (DU/56-52B) connecting dorsal. Located to the front of the secondary hull is the (DN2/A-3) navigational deflector used to assist the shields in deflecting oncoming projectiles. On the lower part of the primary hull is the (SM49/2W) main sensor array, (DN4/5B) navigational dome. Located on the top of the primary hull is the forward facing and (PB2/25-10W) torpedo bay. Located in the connecting dorsal is the (M28/1-2T) intermix chamber. The (AM8/28-4Y) matter/antimatter storage tanks are located on the secondary hull of the hull, along the outer edge, for emergency jettisoning. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power

For additional detail refer to Datasheet MV-18

Class Emblem



Ship Silhouettes

Total Target Area 32358.15 m²
Average Target Area 10786.05 m²



Top Silhouette
Area 21388.83 m²



Port Silhouette
Area 7748.59 m²

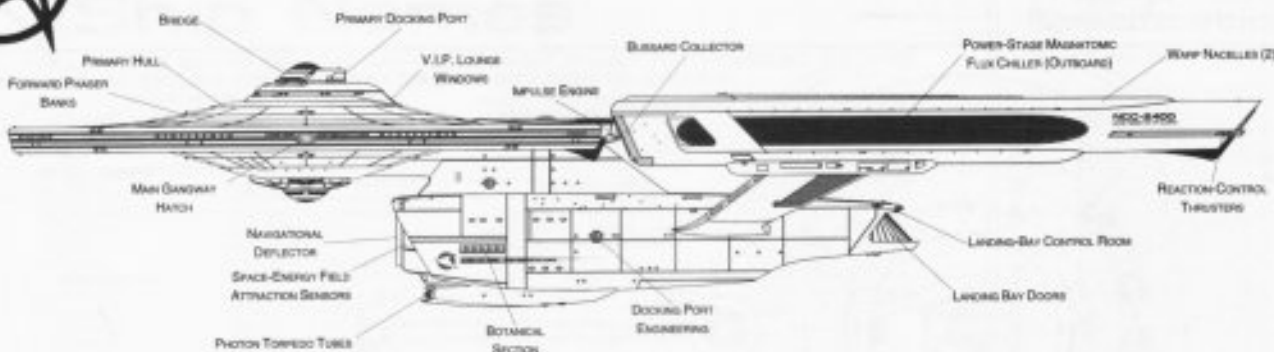


Front Silhouette
Area 3222.73 m²

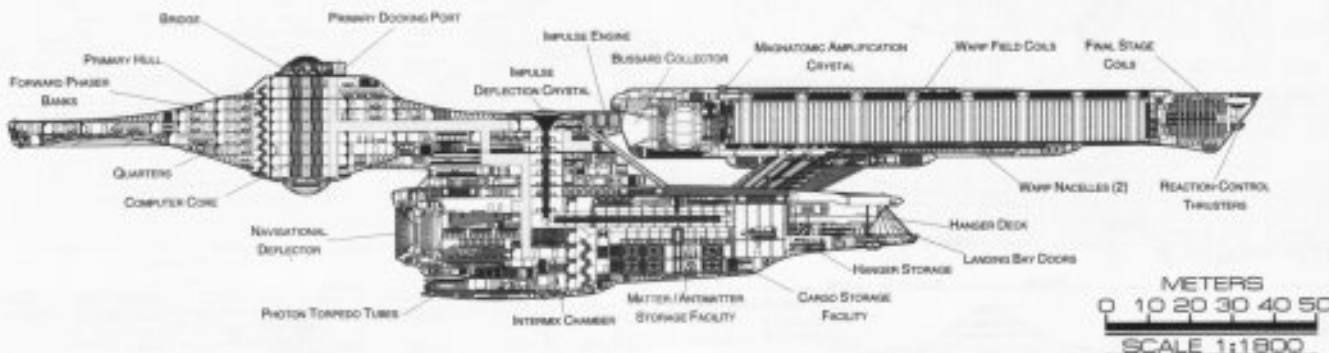


CRUISER

PODESTI CLASS



PORT PROFILE



METERS
0 10 20 30 40 50
SCALE 1:1800

CROSS SECTION

Statistics

Classification: Cruiser
Category: Cruiser
Class: Podesti
Type: Class 1
Model: MK-XIIa
Naval Construction Contract: 2400
Number Proposed: 88
Number Constructed: 38
Number in Service: 38
Number Lost: 0
Dimensions:
Overall Dimensions (Meters)
 Length: 298.24 m
 Width: 141.72 m
 Height: 58.3 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: 125.19 m
 Width: 26.65 m
 Height: 27.15 m
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 169540 mt
 Standard: 181750 mt
 Full Load: 202891 mt
Performance:
Impulse Units: Dual Unit (IRF35E/3-GD)
Impulse Engine Output: 7.6×10^{13} W
Impulse Power Index: 1.09
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.184 sec.
 0.25-0.50 Impulse: 0.276 sec.
 0.50-0.75 Impulse: 0.368 sec.
 0.75-Full Impulse: 0.46 sec.
Warp Units: 2 Nacelle Units (SWS21-SAC)
Warp Engine Output: 1.2×10^{15} W
Warp Power Index: 1.09

Optimum Speed: 4
Max. Safe Cruising: 6
Emergency Speed: 8
Max. Speed: 9.1
Destructive Speed: 9.25
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.184 sec.
 Warp 2 - Warp 3: 0.294 sec.
 Warp 3 - Warp 4: 1.113 sec.
 Warp 4 - Warp 5: 1.601 sec.
 Warp 5 - Warp 6: 1.711 sec.
 Warp 6 - Warp 7: 1.849 sec.
 Warp 7 - Warp 8: 2.374 sec.
 Warp 8 - Warp 9: 3.395 sec.
 Warp 9 - Warp 9.5: 7.544 sec.
 Warp 9.5 - Warp 9.75: 8.741 sec.
 Warp 9.75 - Warp 9.9: 18.125 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 406
Officers: 67
Crew (Ensign Grade): 327
Troops: 12
Passengers: 40
Emergency condition: + 552
Medical Facilities:
 Doctors: 4
Medical Staff: 9
Operating Rooms: 3
Beds: 21
Laboratories: 6
Transporters Total: 11
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 4
Small Cargo: 2
Medium Cargo: 1
Large Cargo: 0
Super Cargo: 0

Brigs: 11
Replicators: 14
Tractor Beams: 1
Tow Capacity: 3.74×10^8 mt
Max Range: 9×10^6 km
Cargo Specification:
Standard Cargo Units: 397
Cargo Capacity: 19850 mt
Shuttlecraft Specifications:
Docking Ports: 5
Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 17
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 3
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
Lifeboats: 41
Turbolift (8 person): 23
Lifeboat (10 person): 13
Lifeboat (20 person): 5
Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.76
 Stellar Survey: 0.76
 Short Range: 0.96
 Long Range: 0.97
 Navigation: 0.99
 Special: 0.75
Computers: 2
 Type: Daystrom Duetronic 1-III
 Type: Daystrom Duetronic 1-IIc

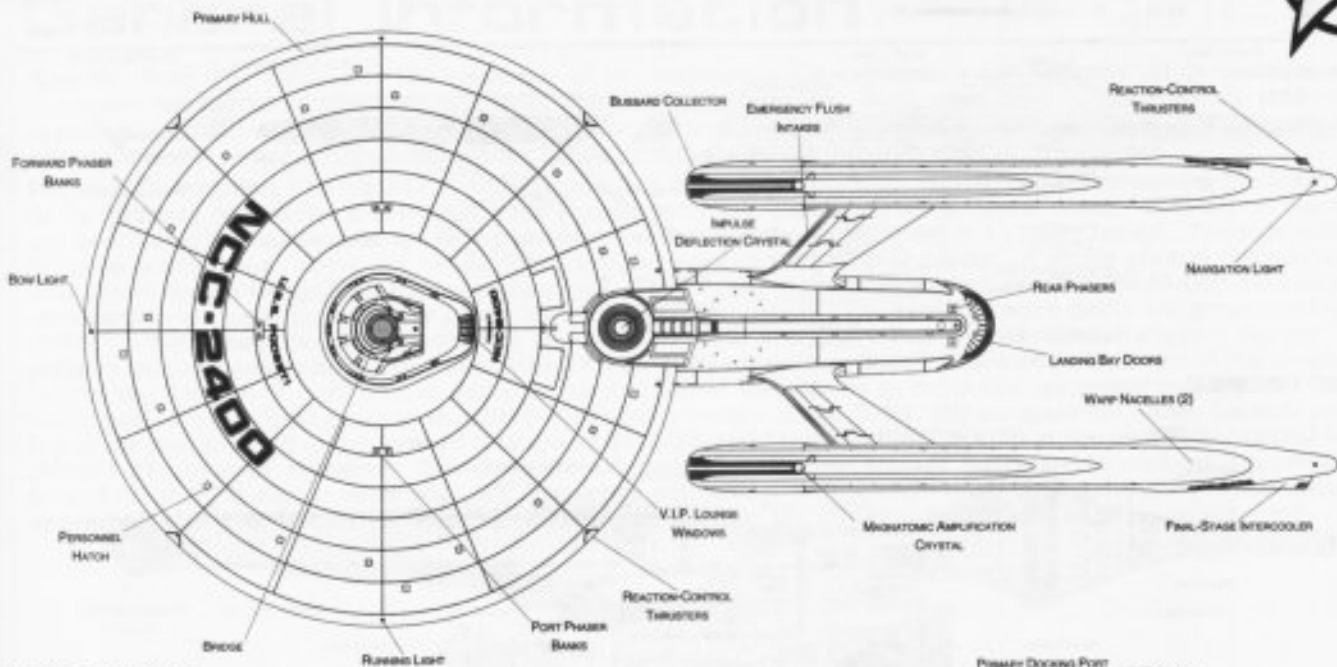
ECM Index: 0.99
Shield Rating:
Shield Index: 0.58
Holdoff Power: 1.74×10^{12} W
Refresh Rate: 4.94×10^{11} W
Breakdown Rate: 5.02×10^{11} W
Shield Dimensions (Meters)
 Length: 447.4 m
 Width: 212.6 m
 Height: 87.5 m
Weapons:
Phaser Power Index: 0.97
Photon Power Index: 1.09
Vessel Power Index: 1.03
Weapon Placement:
Beam (Phasers) Total: 8 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^5 km
 Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 0
Port Banks: 2
Starboard Banks: 2
Upper Banks: 0
Lower Banks: 2
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
 Stock: 25
 Range: 2×10^5 km
 Output: 10-50 MT
 Rate of Fire: 10 spm
Forward Bay: 1
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

FEDERATION VESSEL

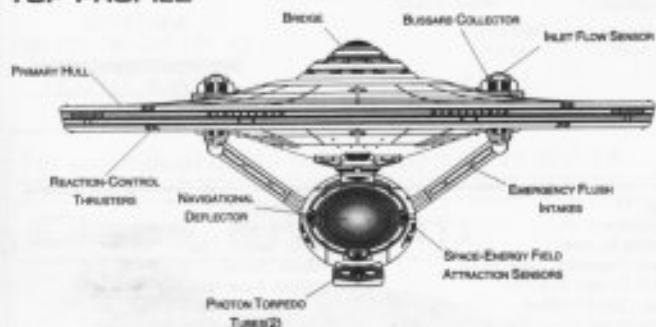
CRUISER



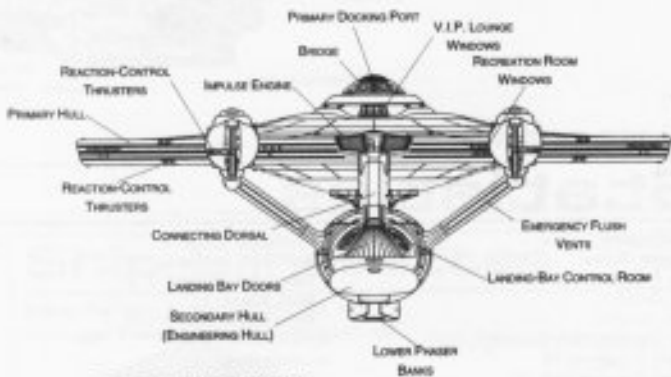
PODESTI CLASS



TOP PROFILE

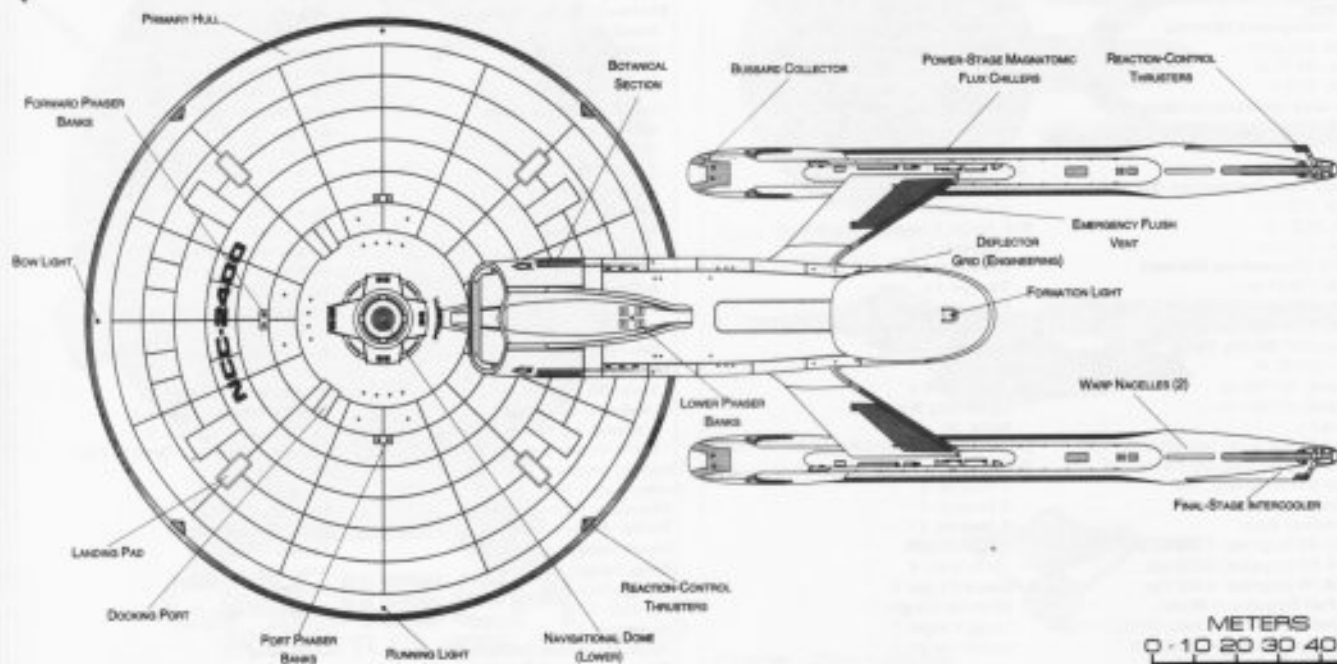


FRONT PROFILE



REAR PROFILE

FEDERATION VESSEL



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800



Ship Names

CRUISER

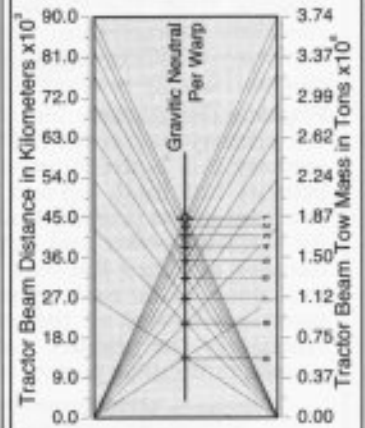
PODESTI CLASS

THE FOLLOWING SHIPS OF THE MK-XI_a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2267.5

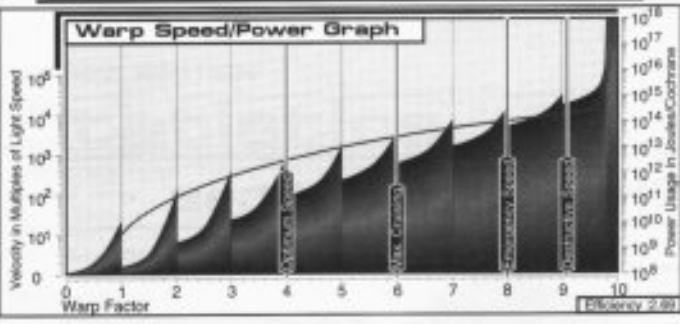
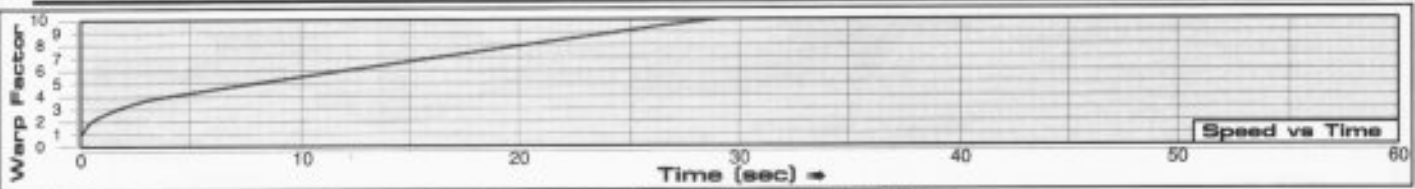
- | | | | |
|-------------------------|---------------------------|--------------------------|-------------------------|
| ABREU -NCC-2411 | GRIFITH -NCC-2434 | McKAY -NCC-2424 | TOTHERS -NCC-2463*** |
| ALMADEN -NCC-2431 | GRIGGS -NCC-2429 | MORIARTY -NCC-2448*** | TRASK -NCC-2423 |
| BALLARD -NCC-2478*** | GRISSLANDING -NCC-2446*** | MOSER -NCC-2481*** | TRAV -NCC-2427 |
| BANNISTER -NCC-2458*** | HAMMERICK -NCC-2449*** | NANAUMCHEFF -NCC-2460*** | UPTAIN -NCC-2440*** |
| BOHN -NCC-2417 | HANEY -NCC-2471*** | NAPOLEANIC -NCC-2455*** | URSELLA -NCC-2484*** |
| BOOTH -NCC-2420 | HAWKING -NCC-2416 | NALMANN -NCC-2463 | VENKATA -NCC-2439*** |
| BROKISH -NCC-2422 | HEARTFELT -NCC-2468*** | NEWPORT -NCC-2418 | WILKIE -NCC-2419 |
| BROWNE -NCC-2451*** | HOOBMAN -NCC-2454*** | ODDESIAN -NCC-2452*** | WINCHESTER -NCC-2473*** |
| BRUNSEN -NCC-2432 | HOWDEN -NCC-2405 | PADDINGTON -NCC-2485*** | WOODALL -NCC-2413 |
| BUFFNUM -NCC-2467*** | HUMPHRIES -NCC-2428 | PAISLEY -NCC-2478*** | WORSHAM -NCC-2454*** |
| BUTLER -NCC-2408 | IGLESSIA -NCC-2437 | PASSERIO -NCC-2401 | YODARRIAN -NCC-2447*** |
| COPELAND -NCC-2476*** | INMOND -NCC-2477*** | PODESTI -NCC-2400* | YOUNGER -NCC-2451*** |
| COSSON -NCC-2442*** | IRON -NCC-2441*** | POSS -NCC-2465*** | ZEBER -NCC-2474*** |
| CRETEN -NCC-2482*** | ISTAD -NCC-2488*** | QUISHAIR -NCC-2480*** | ZENDELER -NCC-2406 |
| DEATON -NCC-2450*** | JENTRY -NCC-2469*** | RHAVIS -NCC-2438 | |
| DESHLER -NCC-2426 | JOHANN -NCC-2435 | RHETT -NCC-2407 | |
| DIXON -NCC-2409 | JUERJENSEN -NCC-2415 | RHBORDY -NCC-2483*** | |
| DOLTON -NCC-2402 | KRICHER -NCC-2425 | ROTHROCK -NCC-2472*** | |
| DVORACEK -NCC-2466*** | KYERZER -NCC-2444*** | SCOTT -NCC-2421 | |
| ELIXIUS -NCC-2443*** | LANCASTER -NCC-2486*** | SHOWPAN -NCC-2436 | |
| ELLIOTT -NCC-2410 | LEDYAR -NCC-2412 | SPORDEN -NCC-2470*** | |
| ESCHENBORG -NCC-2453*** | LEE -NCC-2433 | SWETZ -NCC-2467 | |
| EUDY -NCC-2475*** | L'OUI -NCC-2457*** | TANNER -NCC-2414 | |
| FRANKLIN -NCC-2445*** | MANNAVA -NCC-2456*** | TEMPLETON -NCC-2482*** | |
| FUNGGI -NCC-2404 | MASTERSON -NCC-2459*** | TONGE -NCC-2430 | |

Tractor Beam Specifications

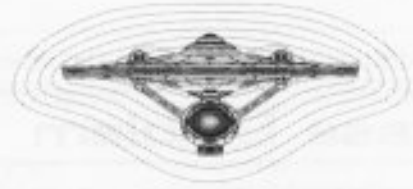
Primary Tractor Beam Load Calculator



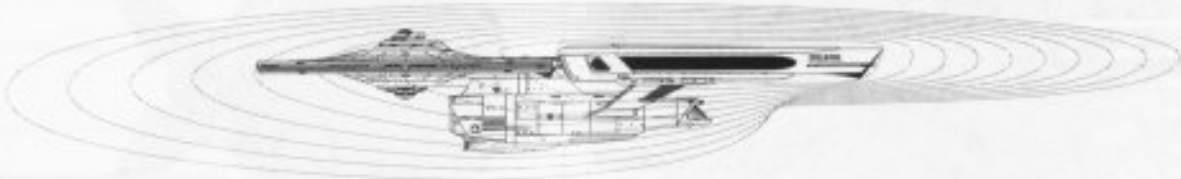
*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED, ALL NAMES PRECEDED WITH "U.S.S."



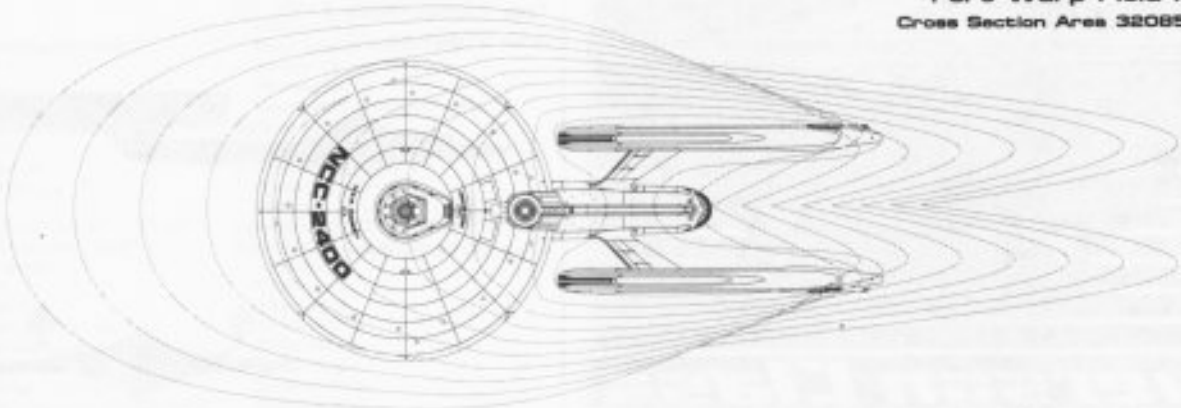
Field Length 557.18m
Field Width 188.03m
Field Height 84.83m



Front Warp Field Profile
Cross Section Area 11072.49 m²



Port Warp Field Profile
Cross Section Area 32085.33 m²



Top Warp Field Profile
Cross Section Area 74525.63 m²

FEDERATION VESSEL

CRUISER



IVERSON CLASS

General Information

Specific Role: The Cruiser is the backbone of the Federation for exploration and defense. It is equipped with moderate laboratories, standard weapons systems and defensive ECM equipment. It's primary mission is exploration, however it is also used for perimeter defense and diplomatic duty. The Cruiser is often used as a research facility in areas too dangerous for lightly armed dedicated research vessels.

Physical Description: The (PH162/V-F2) primary hull is equipped with the (BS9/V-U4) bridge. On the lower part of the primary hull is the (SM49/6J) main sensor array and (DN4/3A) navigational dome. Located on the top of the primary hull is the forward facing and (PB2/25-10W) torpedo bay. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2V) phaser banks. A single photon torpedo bay is mounted to the front of the primary hull. To the rear of the primary hull are (IRF35E/3-GB) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels's warp fields are generated by two (SW52/1-5AC) warp nacelles attached the rear of the primary hull by (DU/21-2F) support pylons. Located at the rear of the primary hull, just inside each pylon is the (M31/1-2D) intermix chamber. The (AM8/28-4Y) matter/antimatter storage tanks are located on the rear part of the hull, along the outer edge, for emergency jettisoning. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power

For additional detail refer to Datasheet MV-16

Class Emblem

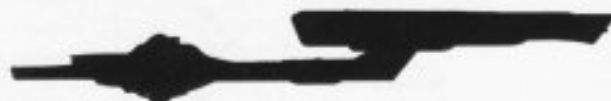


Ship Silhouettes

Total Target Area 28615.52 m²
Average Target Area 9538.51 m²



Top Silhouette
Area 21857.55 m²

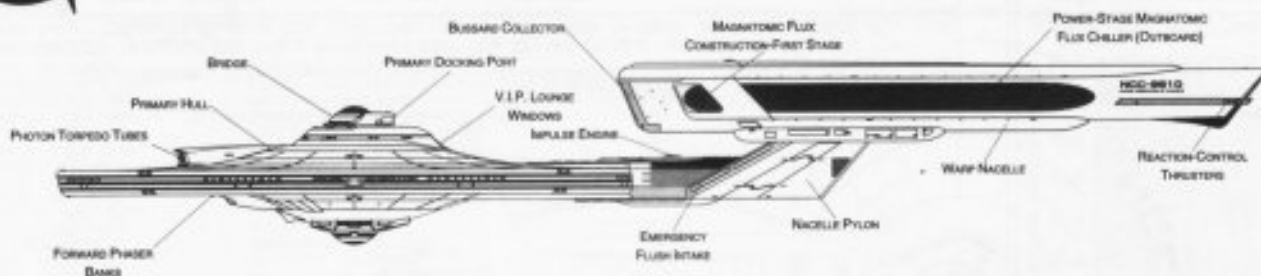


Port Silhouette
Area 4874.75 m²

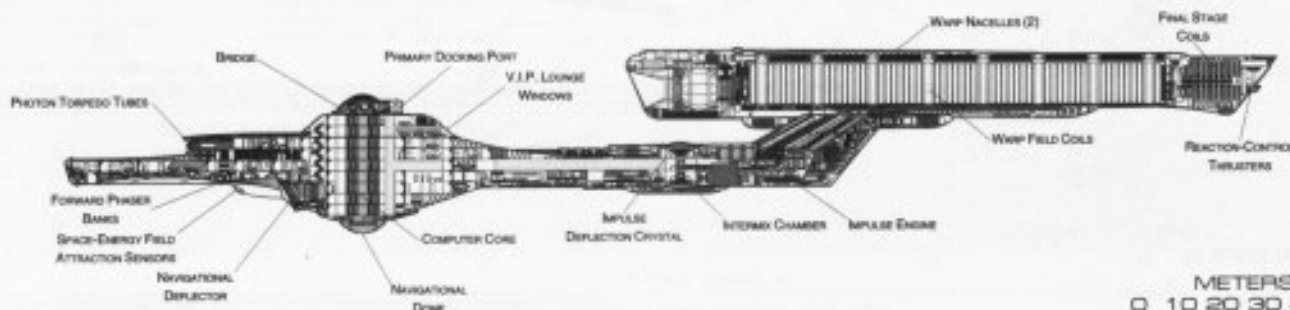


Front Silhouette
Area 2083.22 m²

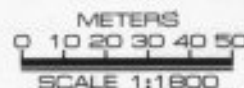
FEDERATION VESSEL



PORT PROFILE



CROSS SECTION



Statistics

Classification: Cruiser
Category: Cruiser
Class: Iverson
Type: Class1
Model: MK-XLIIIa
Naval Construction Contract: 9610
Number Proposed: 48
Number Constructed: 42
Number in Service: 42
Number Lost: 0
Dimensions:
Overall Dimensions (Meters)
 Length: 288.36 m
 Width: 141.7 m
 Height: 43.91 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 17.02 m
Displacement (Metric Tons)
 Light: 120782 mt
 Standard: 129404 mt
 Full Load: 144456 mt
Performance:
Impulse Units: Dual Unit (IRF35E/3-GB)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 1.53
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.131 sec.
 0.25-0.50 Impulse: 0.197 sec.
 0.50-0.75 Impulse: 0.262 sec.
 0.75-Full Impulse: 0.328 sec.
Warp Units: 2 Nacelle Units (SW52/1-SAC)
Warp Engine Output: 1.2×10^{15} W
Warp Power Index: 1.53

Optimum Speed: 4
Max. Safe Cruising: 6
Emergency Speed: 8
Max. Speed: 9.1
Destructive Speed: 9.25
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.131 sec.
 Warp 2 - Warp 3: 0.21 sec.
 Warp 3 - Warp 4: 0.793 sec.
 Warp 4 - Warp 5: 1.14 sec.
 Warp 5 - Warp 6: 1.218 sec.
 Warp 6 - Warp 7: 1.317 sec.
 Warp 7 - Warp 8: 1.69 sec.
 Warp 8 - Warp 9: 2.417 sec.
 Warp 9 - Warp 9.5: 5.372 sec.
 Warp 9.5 - Warp 9.75: 8.223 sec.
 Warp 9.75 - Warp 9.9: 12.905 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 347
 Officers: 57
 Crew (Ensign Grade): 280
 Troops: 10
 Passengers: 30
 Emergency condition: + 466
Medical Facilities:
 Doctors: 3
Medical Staff: 7
 Operating Rooms: 2
 Beds: 16
Laboratories: 4
Transporters Total: 6
 1 Person: 0
 2 Person: 0
 6 Person: 3
 12 Person: 0
 22 Person: 3
 Small Cargo: 1
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

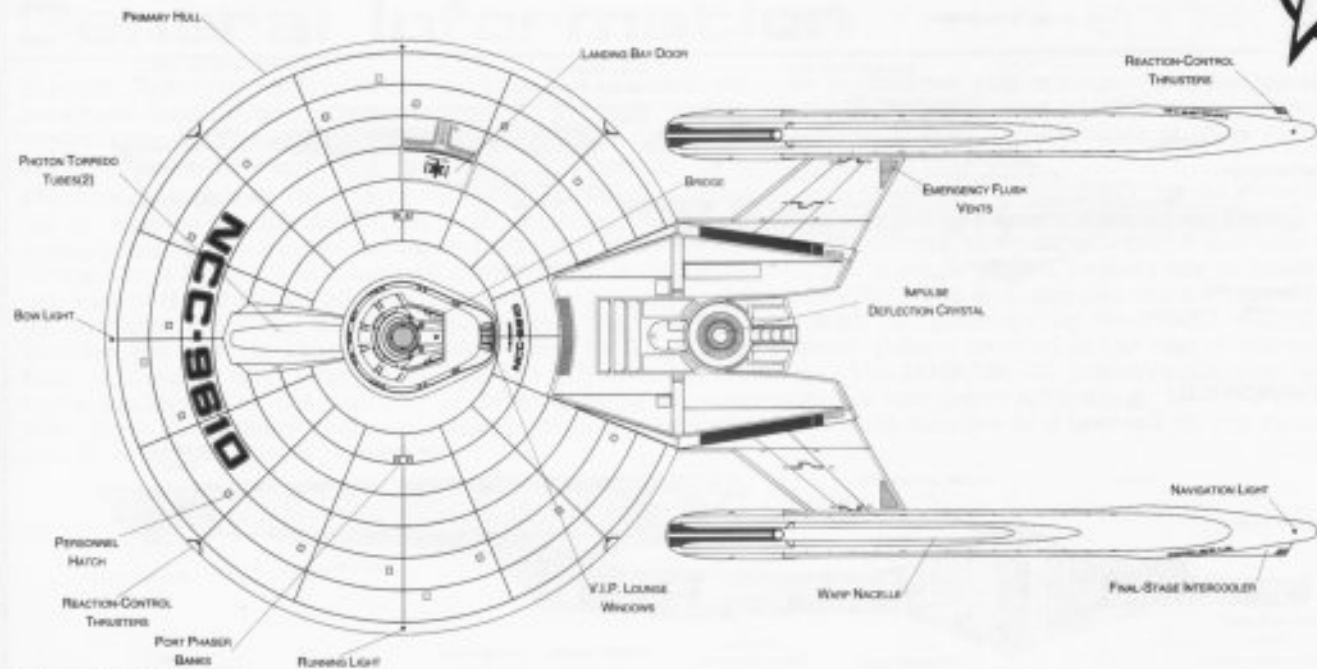
Brigs: 6
Replicators: 10
Tractor Beams: 1
Tow Capacity: 3.74×10^8 mt
Max Range: 9×10^8 km
Cargo Specification:
 Standard Cargo Units: 182
 Cargo Capacity: 9100 mt
Shuttlecraft Specifications:
Docking Ports: 1
Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 17
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 3
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
Lifeboats: 33
 Turbolift (8 person): 16
 Lifeboat (10 person): 12
 Lifeboat (20 person): 5
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.95
 Stellar Survey: 0.96
 Short Range: 0.96
 Long Range: 0.97
 Navigation: 0.99
 Special: 0.94
Computers: 2
 Type: Daystrom Duotronic 1-81g
 Type: Daystrom Duotronic 1-81p

ECM Index: 0.99
Shield Rating:
 Shield Index: 1.15
 Holdoff Power: 2.44×10^{12} W
 Refresh Rate: 6.93×10^{11} W
 Breakdown Rate: 8.32×10^{11} W
Shield Dimensions (Meters)
 Length: 432.6 m
 Width: 212.6 m
 Height: 65.9 m
Weapons:
Phaser Power Index: 1.02
Photon Power Index: 1.53
Vessel Power Index: 1.27
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^8 km
 Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 0
Port Banks: 2
Starboard Banks: 2
Upper Banks: 0
Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
 Stock: 25
 Range: 2×10^8 km
 Output: 10-50 MT
 Rate of Fire: 10 spm
Forward Bay: 1
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

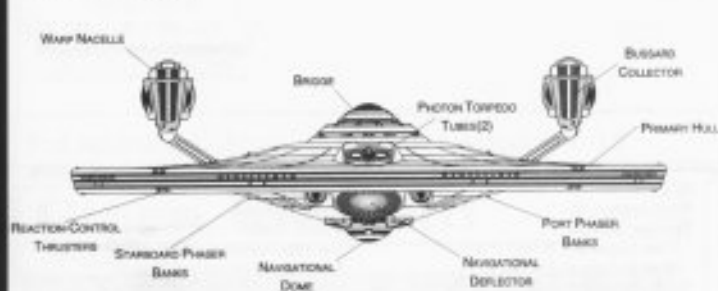
CRUISER



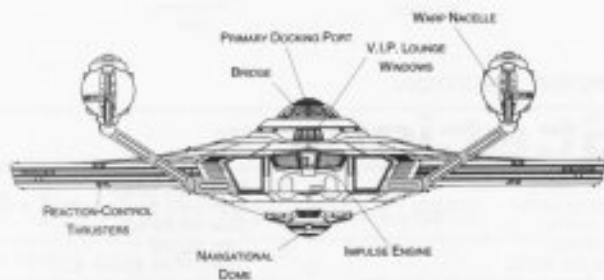
IVERSON CLASS



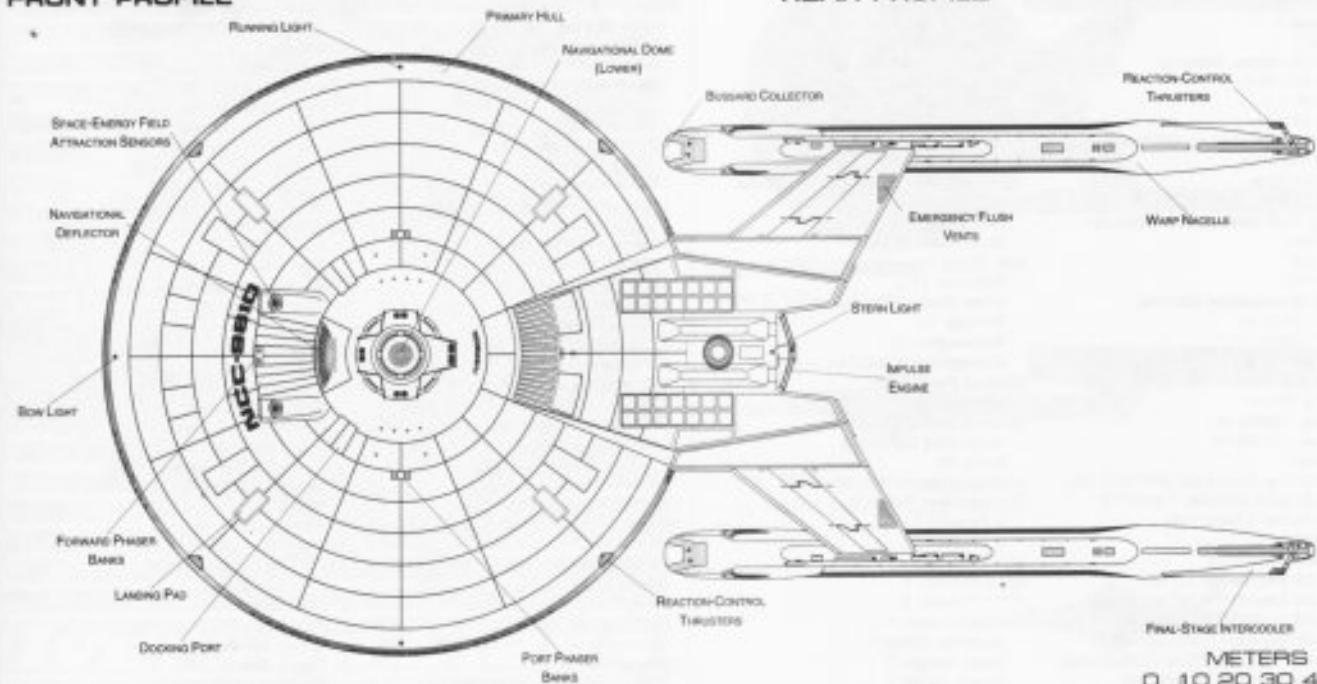
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800

FEDERATION VESSEL



Ship Names

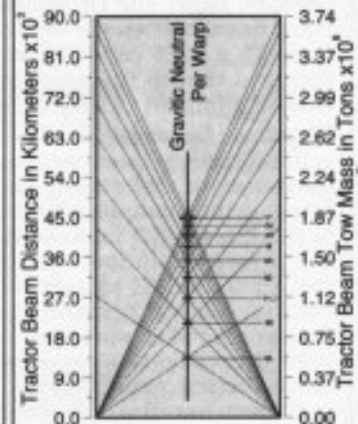
THE FOLLOWING SHIPS OF THE MK-XLIII CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.10

- | | |
|------------------------|---------------------------|
| AGORA -NCC-9621 | LORVELA -NCC-9642 *** |
| AMUNDSEN -NCC-9639 | L'UVAN -NCC-9643 *** |
| BAIKONUR -NCC-9633 | MEDARA -NCC-9630 |
| BOLKINIA -NCC-9624 | NEW BERLIN -NCC-9604 |
| BOLRABI -NCC-9623 | NEW GLASGOW -NCC-9619 |
| BOLSETU -NCC-9646 *** | NEW JALEYL -NCC-9645 *** |
| CALADIA -NCC-9614 | NOVA ARES -NCC-9629 |
| CESTUS -NCC-9617 | OREAS -NCC-9641 |
| CHI-REE -NCC-9647 *** | PAKIL NOSA -NCC-9636 |
| CHRISTOP -NCC-9606 | PARADISE -NCC-9615 |
| DALARIA -NCC-9616 | POLAR -NCC-9607 |
| DIRA -NCC-9635 | SANDAPAM -NCC-9627 |
| EKEIOS -NCC-9632 | SATHURA -NCC-9600 |
| EKOSIS -NCC-9603 | SHANAIKAHR -NCC-9640 |
| ERANAS -NCC-9638 | SHIKAHR -NCC-9631 |
| GHUTHA -NCC-9601 | TAROLYN -NCC-9612 |
| HIGHPORT -NCC-9644 *** | TAVISTAR -NCC-9634 |
| HUYGENSTADT -NCC-9605 | TORUS -NCC-9613 |
| IVERSON -NCC-9610 * | TURKANA -NCC-9609 |
| KIR -NCC-9602 | TYCHO -NCC-9618 |
| K'LAN -NCC-9620 | UTOPIA PLANITIA -NCC-9637 |
| KOLARIPAM -NCC-9622 | VAJRIPAM -NCC-9608 |
| KORAL -NCC-9628 | VULCANA REGAR -NCC-9625 |
| KYROA -NCC-9611 | |
| LOR'TAN -NCC-9626 | |

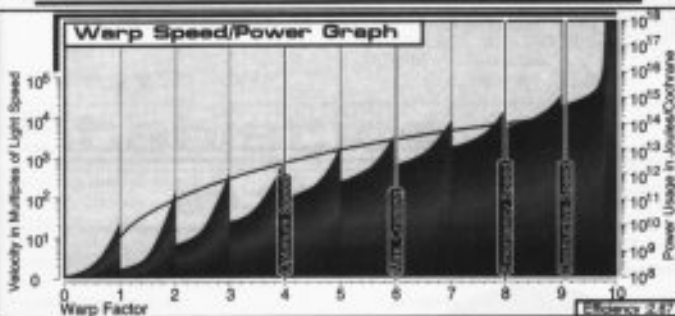
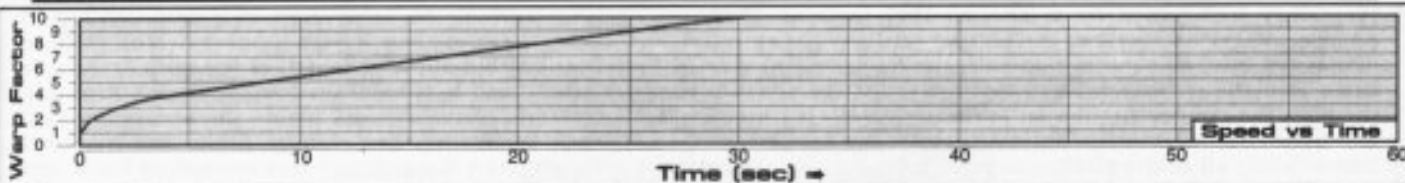
CRUISER

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."



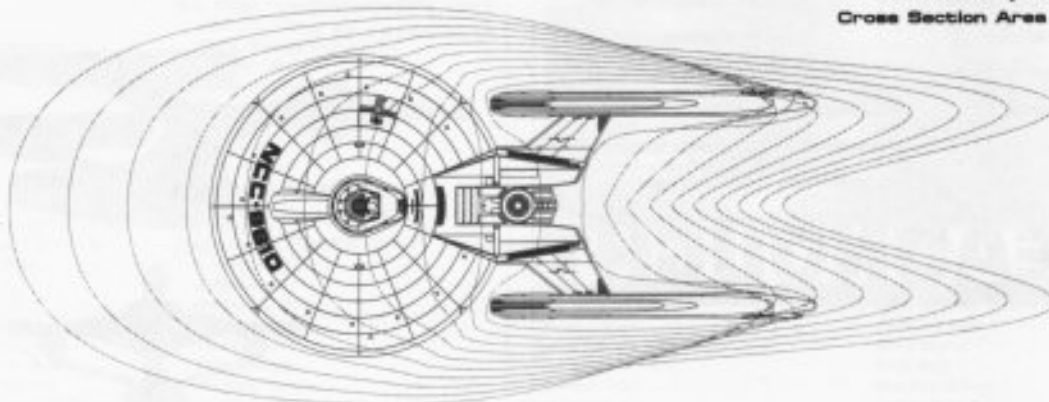
Field Length 798.16m
Field Width 186.53m
Field Height 71.73m



Front Warp Field Profile
Cross Section Area 10031.40 m²



Port Warp Field Profile
Cross Section Area 23987.57 m²



Top Warp Field Profile
Cross Section Area 67808.48 m²

IVERSON CLASS

FEDERATION VESSEL

DREADNOUGHT



General Information

Specific Role: The Dreadnought's basic design makes use of many Heavy Cruiser features. The addition of a third warp nacelle gives the vessel almost Fast Destroyer acceleration and top speed while fire power has been increased through a high capacity intermix chamber. The Dreadnought's original classification as Fast Heavy Cruiser was changed due to the need for a formidable image as a diplomacy tool. The vessel is also equipped with extensive ECM equipment to help it survive.

Physical Description: The (PH147/D-M5) primary hull is equipped with additional targeting sensors, hull reinforcements and weapons. Integrated into the standard deflector grid are additional electronic countermeasures to make the vessel more stealthy. The primary hull is equipped with the (BS12/C-D3B) tactical battle bridge which contains larger weapons, tracking and communication stations. On the lower part of the primary hull is the (SM49/7J) main sensor array and (DN4/9-L) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. To the rear of the secondary hull are two (BP2/30-2C) phaser banks. On the underside of the secondary hull are two additional (BP2/30-2C) phaser banks. Nestled between the dorsal and the secondary hull is a forward facing (PB2/25-10D) photon torpedo bay. To the rear of the primary hull are (IP186E/5-JH) dual impulse units which are used for auxiliary power and sublight propulsion. The vessel is also equipped with additional inertial dampeners to compensate for its increased maneuvering capabilities. The vessel's warp fields are generated by three (SW52/1-5TD) warp nacelles. The outboard nacelles are attached to the secondary hull by (DU/47-7F) support pylons while the third nacelle is attached to the primary hull by a (DU/30-5F) dorsal support pylon. Below the primary hull is the (SH121/C-H3) secondary hull joined by a (DU/50-48F) connecting dorsal. In the bow of the secondary hull is a (DN2/S-2) navigational deflector, and at the rear of the primary hull is a (DN2/C-2M) modified navigational deflector; both of which are used in conjunction with the navigational shields to deflect objects out of the path of the ship and move them into the path of pursuing vessels. At the front of the secondary hull is a medium hangar deck. Running through the connecting dorsal is the (M20/10-1C) high capacity intermix chamber, and inside the secondary hull are (AM8/42-5S) matter/antimatter storage tanks. For emergency jettisoning the storage tanks are installed immediately aft of the photon torpedo launcher. In the event of an emergency the primary and secondary hulls can separate; each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time, or, if the third nacelle is still attached, warp 2 on auxiliary power.

For additional detail refer to Datasheet MV-11

Class Emblem



Ship Silhouettes

Total Target Area 39599.71 m²
Average Target Area 13199.90 m²



Top Silhouette
Area 23171.33 m²



Port Silhouette
Area 11230.49 m²

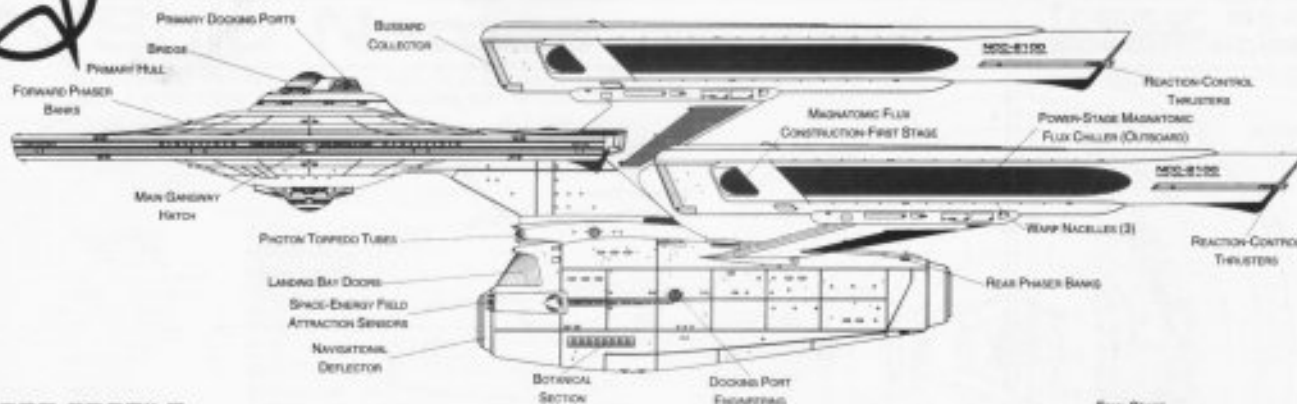


Front Silhouette
Area 5197.89 m²

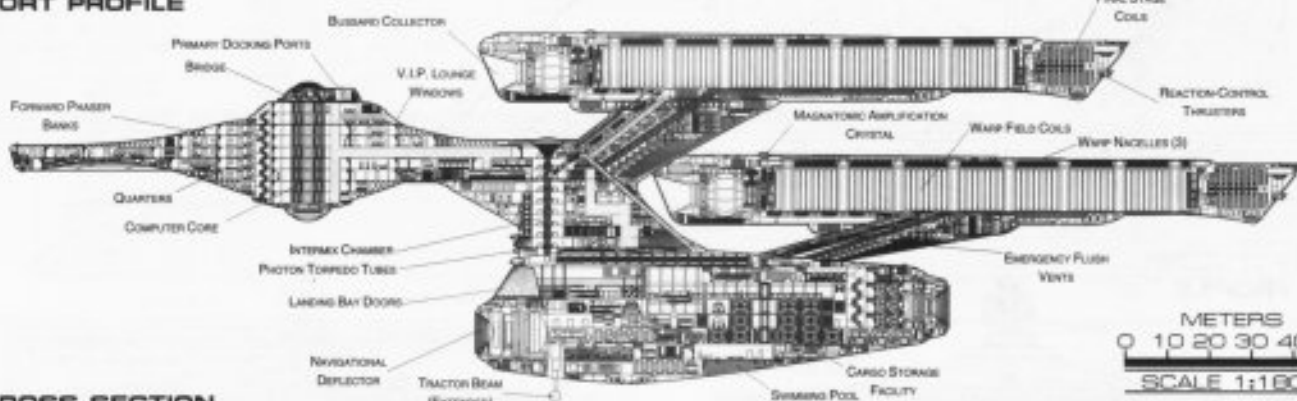


DREADNOUGHT

STAR LEAGUE CLASS



PORT PROFILE



CROSS SECTION



Statistics

Classification: Dreadnought
Category: Cruiser
Class: Star League
Type: Class 1
Model: MK-Xa
Naval Construction Contract: 2100
Number Proposed: 50
Number Constructed: 20
Number in Service: 19
Number Lost: 1
Dimensions:
Overall Dimensions (Meters)
 Length: 307.7 m
 Width: 141.72 m
 Height: 84.11 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: 112.62 m
 Width: 33.17 m
 Height: 32.18 m
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 207596 mt
 Standard: 222415 mt
 Full Load: 248286 mt
Performance:
Impulse Units: Dual Unit (IRF35E5-JH)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 0.89
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.225 sec.
 0.25-0.50 Impulse: 0.338 sec.
 0.50-0.75 Impulse: 0.45 sec.
 0.75-Full Impulse: 0.563 sec.
Warp Units: 2 Nacelle Units (SW521-6TD)
Warp Engine Output: 1.8×10^{16} W
Warp Power Index: 1.33

Optimum Speed: 5
Max. Safe Cruising: 7
Emergency Speed: 8.5
Max. Speed: 9.25
Destructive Speed: 9.35
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.15 sec.
 Warp 2 - Warp 3: 0.24 sec.
 Warp 3 - Warp 4: 0.308 sec.
 Warp 4 - Warp 5: 1.306 sec.
 Warp 5 - Warp 6: 1.396 sec.
 Warp 6 - Warp 7: 1.509 sec.
 Warp 7 - Warp 8: 1.937 sec.
 Warp 8 - Warp 9: 2.77 sec.
 Warp 9 - Warp 9.5: 6.155 sec.
 Warp 9.5 - Warp 9.75: 7.131 sec.
 Warp 9.75 - Warp 9.9: 14.787 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 466
 Officers: 75
 Crew (Ensign Grade): 365
 Troops: 26
 Passengers: 50
Emergency condition: + 023
Medical Facilities:
 Doctors: 4
Medical Staff: 9
 Operating Rooms: 3
 Beds: 21
Laboratories: 16
Transporters Total: 15
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 4
 Small Cargo: 3
 Medium Cargo: 3
 Large Cargo: 0
 Super Cargo: 0

Brigs: 26
Replicators: 28
Tractor Beams: 1
Tow Capacity: 6.71×10^6 mt
Max Range: 1.13×10^5 km
Cargo Specification:
 Standard Cargo Units: 503
 Cargo Capacity: 25150 mt
Shuttlecraft Specifications:
Docking Ports: 5
Shuttlecraft Bays Total: 2
 Small Bay: 0
 Medium Bay: 2
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 59
 Work Bees: 5
 Travel Pods: 5
 Aquatic Shuttle: 2
 Light Shuttle: 2
 Standard Shuttle: 2
 Heavy Shuttle: 2
 Cargo Shuttle: 2
 Assault Shuttle: 5
 Killer Bees: 7
 Light Fighter: 10
 Fighter: 10
 Heavy Fighter: 7
 Lifeboats: 49
 Turbolift (8 person): 28
 Lifeboat (10 person): 15
 Lifeboat (20 person): 6
 Lifeboat (30 person): 0
Coaking Devices: 0
Sensor Index Values:
 Planetary Survey: 1.60
 Stellar Survey: 1.32
 Short Range: 1.46
 Long Range: 1.20
 Navigation: 1.22
 Special: 2.64
Computers: 2
 Type: Daystrom Duetronic 1-18J
 Type: Daystrom Duetronic 1-18a

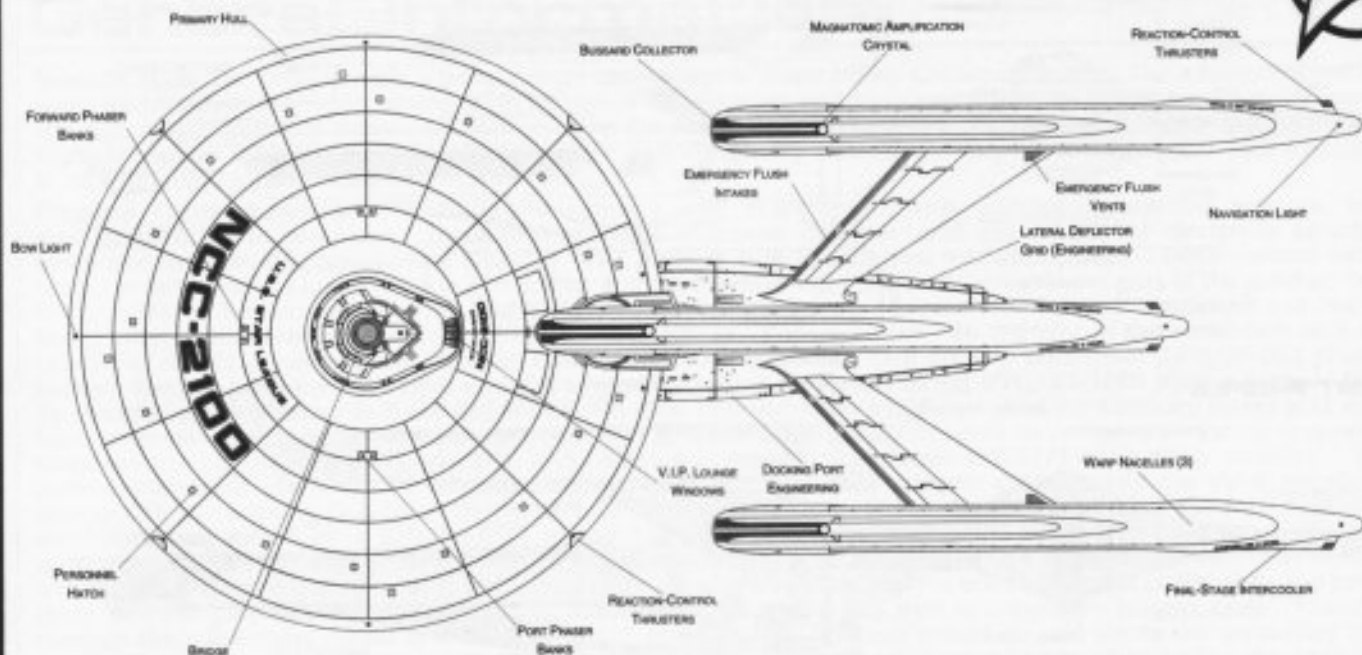
ECM Index: 1.21
Shield Rating:
Shield Index: 0.27
Holdoff Power: 9.84×10^{11} W
Refresh Rate: 2.8×10^{11} W
Breakdown Rate: 3.35×10^{11} W
Shield Dimensions (Meters)
 Length: 461.6 m
 Width: 212.6 m
 Height: 126.2 m
Weapons:
Phaser Power Index: 1.18
Photon Power Index: 0.89
Vessel Power Index: 1.04
Weapon Placement:
Beam (Phasers) Total: 12 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 2
Port Banks: 2
Starboard Banks: 2
Upper Banks: 4
Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
 Stock: 25
 Range: 2×10^6 km
 Output: 10-50 MT
 Rate of Fire: 10 spm
Forward Bay: 1
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

FEDERATION VESSEL

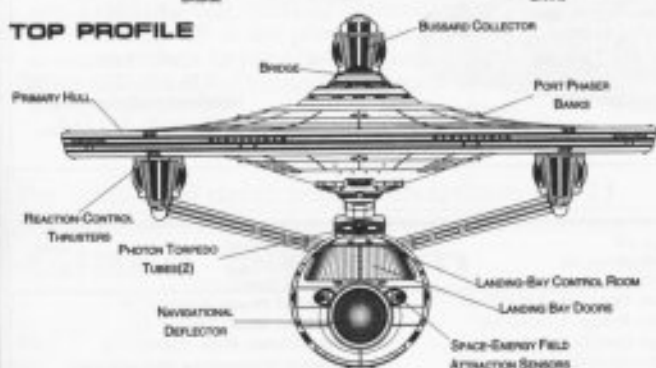
DREADNOUGHT



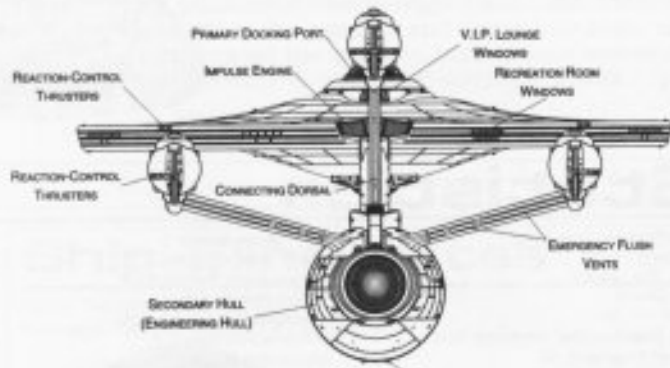
STAR LEAGUE CLASS



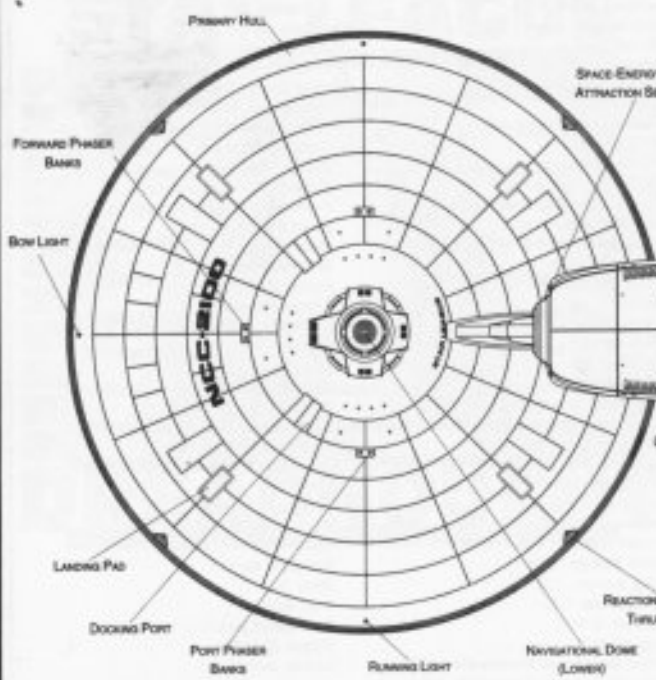
TOP PROFILE



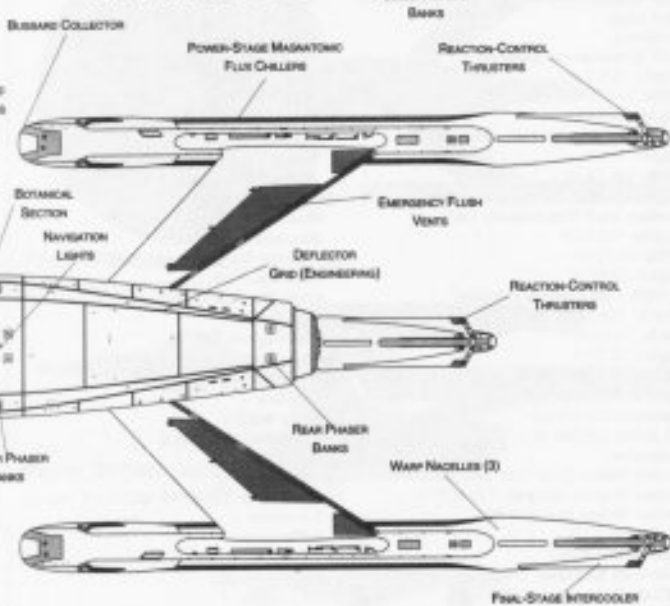
FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE



METERS
0 10 20 30 40 50
SCALE 1:1800

FEDERATION VESSEL



DREADNOUGHT

Ship Names

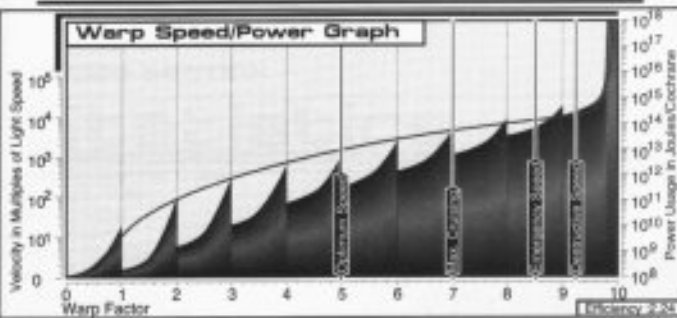
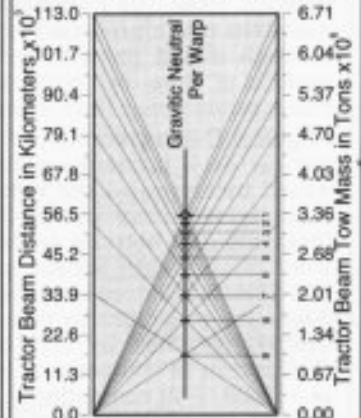
THE FOLLOWING SHIPS OF THE MK-X₆ CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.11

- | | | |
|----------------------------|----------------------------|----------------------|
| AFFILIATION •NCC-2108 | KINSHIP •NCC-2132*** | WIDGREN •NCC-2141*** |
| AFFINITY •NCC-2124*** | KONKORDIUM •NCC-2106 | |
| ALLIANCE •NCC-2113 | NICHTER •NCC-2102 | |
| ALLMAN •NCC-2146*** | ORGANIZATION •NCC-2111** | |
| ARCHANGELESE •NCC-2105 | PACT •NCC-2121*** | |
| ARRANGEMENT •NCC-2138*** | PARTICIPATION •NCC-2125*** | |
| ASSOCIATION •NCC-2118 | PRATICO •NCC-2149*** | |
| COALITION •NCC-2127*** | PROVINCE •NCC-2137*** | |
| COMPACTAT •NCC-2103 | REALM •NCC-2130*** | |
| CONCORDAT •NCC-2109 | REGION •NCC-2144*** | |
| CONCURRENCE •NCC-2142*** | ROADMAN •NCC-2147*** | |
| CONFEDERATION •NCC-2143*** | SECTOR •NCC-2131*** | |
| CONSORTIUM •NCC-2119 | SNITGER •NCC-2114 | |
| CORPORATION •NCC-2104 | STAR EMPIRE •NCC-2118 | |
| DIRECTORATE •NCC-2110 | STAR LEAGUE •NCC-2101* | |
| DISTRICT •NCC-2145*** | STAR SYSTEM •NCC-2107 | |
| DOMAIN •NCC-2129*** | STAR UNION •NCC-2112 | |
| DOMINION •NCC-2115 | SYSTEM •NCC-2139*** | |
| ENTENTE •NCC-2120*** | TERRITORY •NCC-2122*** | |
| FEDERATION •NCC-2100 | TRUSTEE SHIP •NCC-2117 | |
| FORMALITY •NCC-2123*** | UNIFICATION •NCC-2140*** | |
| FOUNDATION •NCC-2136*** | UNION •NCC-2126*** | |
| GATLIN •NCC-2148*** | UNITY •NCC-2133*** | |
| IMPLICATION •NCC-2128*** | WARD •NCC-2134*** | |
| INSTITUTION •NCC-2135*** | | |

*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

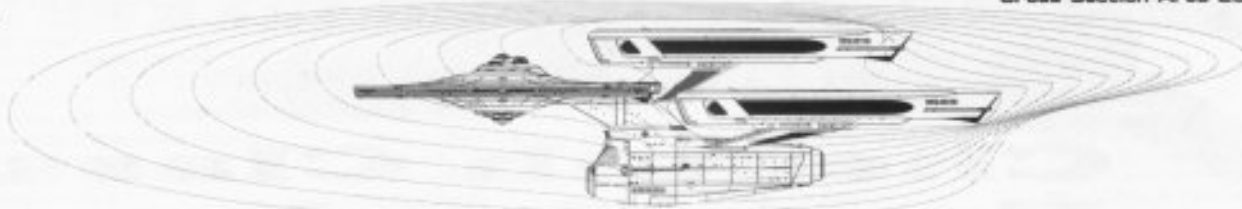
Primary Tractor Beam Load Calculator



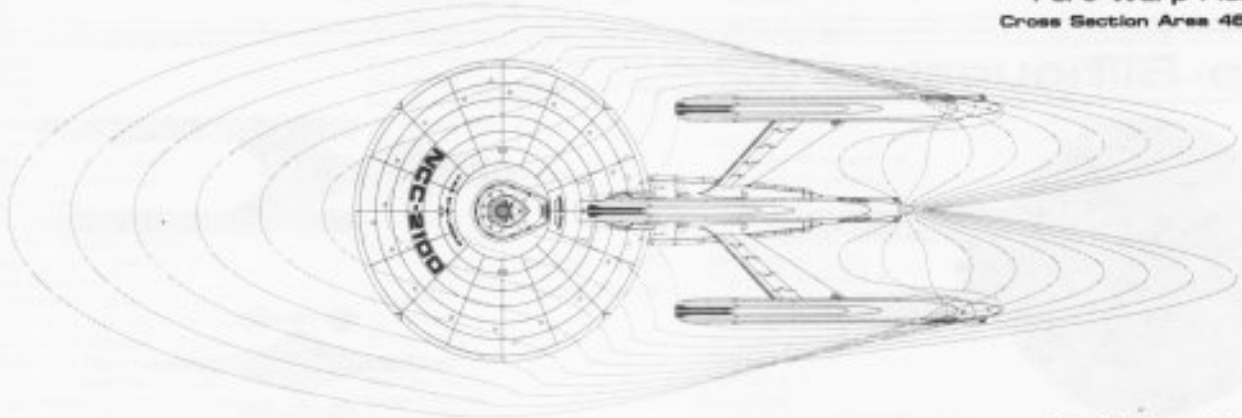
Field Length 584.84m
Field Width 193.35m
Field Height 108.59m



Front Warp Field Profile
Cross Section Area 20995.13 m²



Port Warp Field Profile
Cross Section Area 48690.97 m²



Top Warp Field Profile
Cross Section Area 78688.30 m²

FAST CRUISER



CHEETAH CLASS

General Information

Specific Role: The Fast Cruiser is Starfleet's answer to the all purpose high-speed starship. The cruiser is able to maintain maximum warp speeds for long periods of time due to the use of four warp nacelles which phase-shift through mixed pairs to reduce the stress to any one engine. Acceleration is also greatly increased, for short periods of time, by using all four engines at once. This unique engine arrangement allows the Fast Cruiser to reach areas faster than most other vessels and provide rapid tactical perimeter defense.

Physical Description: The (PH147/C-F4) primary hull is equipped with additional hull reinforcements and a small hangar deck (located on the upper starboard side). The primary hull is equipped with the (BS10/C-N1) bridge which incorporates the enhanced sensor range station. On the lower part of the primary hull is the (SM49/4D) main sensor array and (DN4/15Y) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Positioned on the underside of the primary hull just in front of the main sensor array is the (PB2/25-10W) photon torpedo bay. To the rear of the primary hull are (IRF35E/5-LR) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels's warp fields are generated by four (SW52/1-5RT) warp nacelles attached in pairs, rotated 90° mounted above and below the primary hull by (DU/40-30T) connecting tee dorsals. The vessel is also equipped with additional inertial dampeners to compensate for its increased maneuvering and acceleration capabilities. Attached to each tee dorsal is a (DN2/S-2) navigational deflector, both of which are used in conjunction with the navigational shields to deflect objects out of the path of the ship. Inside the dorsals are the (M18/12-2E) intermix chambers and (AM8/58-7S) matter/antimatter storage tanks. The storage tanks are located at the rear part of the dorsals for emergency jettisoning. In the event of an emergency the primary hull can separate from either set of warp nacelles.

For additional detail refer to Datasheet MV-13

Class Emblem

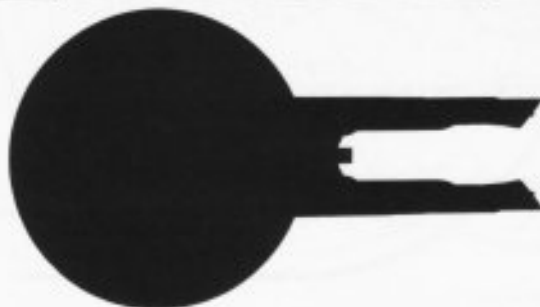


Cheetah Class Fast Cruiser

FEDERATION VESSEL

Ship Silhouettes

Total Target Area 28207.59 m²
Average Target Area 9402.53 m²



Top Silhouette
Area 19471.81 m²



Port Silhouette
Area 6205.06 m²

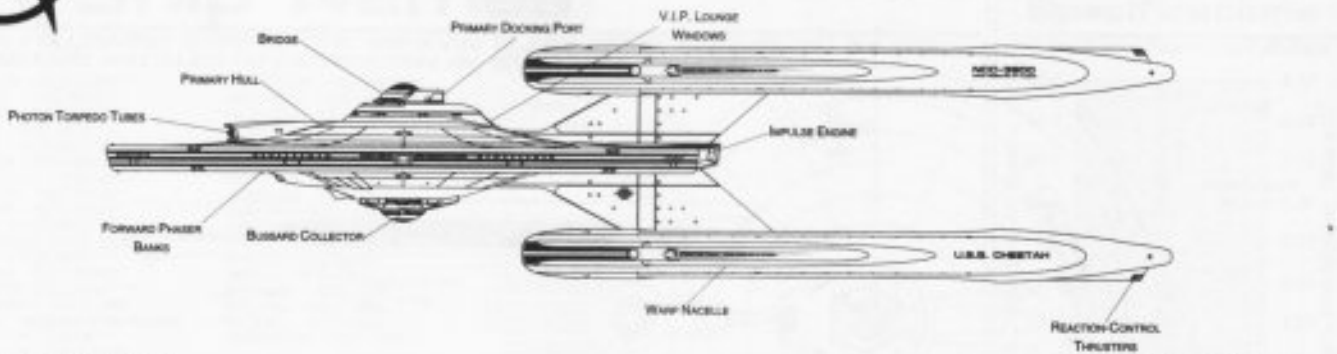


Front Silhouette
Area 2530.72 m²

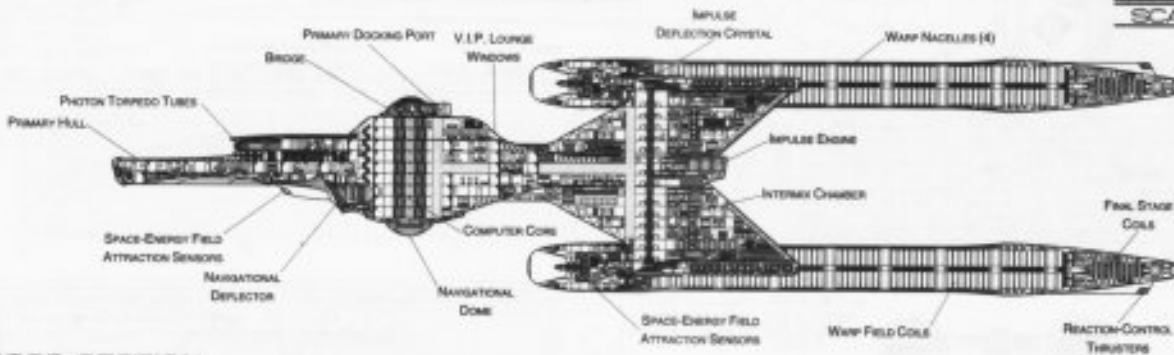


FAST CRUISER

CHEETAH CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Fast Cruiser
Category: Cruiser
Class: Cheetah
Type: Class I
Model: MK-XV71a
Naval Construction Contract: 3900
Number Proposed: 41
Number Constructed: 10
Number in Service: 10
Number Lost: 0
Dimensions:
Overall Dimensions (Meters)
 Length: 245.09 m
 Width: 141.72 m
 Height: 56.34 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 166889 mt
 Standard: 178802 mt
 Full Load: 199900 mt
Performance:
Impulse Units: Dual Unit (IRF35E/S-LR)
Impulse Engine Output: 7.8×10^{12} W
Impulse Power Index: 1.10
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.181 sec.
 0.25-0.50 Impulse: 0.272 sec.
 0.50-0.75 Impulse: 0.362 sec.
 0.75-Full Impulse: 0.453 sec.
Warp Units: 2 Nacelle Units (SWS2/1-SRT)
Warp Engine Output: 2.4×10^{15} W
Warp Power Index: 2.21

Optimum Speed: 7
Max. Safe Cruising: 8.5
Emergency Speed: 9.5
Max. Speed: 9.7
Destructive Speed: 9.81
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.091 sec.
 Warp 2 - Warp 3: 0.145 sec.
 Warp 3 - Warp 4: 0.548 sec.
 Warp 4 - Warp 5: 0.787 sec.
 Warp 5 - Warp 6: 0.842 sec.
 Warp 6 - Warp 7: 0.91 sec.
 Warp 7 - Warp 8: 1.168 sec.
 Warp 8 - Warp 9: 1.67 sec.
 Warp 9 - Warp 9.5: 3.711 sec.
 Warp 9.5 - Warp 9.75: 4.299 sec.
 Warp 9.75 - Warp 9.9: 8.916 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 346
 Officers: 57
 Crew (Ensign Grade): 279
 Troops: 10
 Passengers: 30
 Emergency condition: + 465
Medical Facilities:
 Doctors: 3
Medical Staff
 Operating Rooms: 2
 Beds: 16
Laboratories: 5
Transporters Total: 8
 1 Person: 0
 2 Person: 0
 6 Person: 3
 12 Person: 0
 22 Person: 3
 Small Cargo: 1
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

Brigs: 11
Replicators: 14
Tractor Beams: 1
 Tow Capacity: 8.97×10^8 mt
 Max Range: 8.2×10^4 km
Cargo Specifications:
 Standard Cargo Units: 189
 Cargo Capacity: 9450 mt
Shuttlecraft Specifications:
 Docking Ports: 1
 Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 17
 Work Bess: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 3
 Killer Bess: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
 Lifeboats: 36
 Turbolift (8 person): 22
 Lifeboat (10 person): 10
 Lifeboat (30 person): 4
 Lifeboat (90 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.78
 Stellar Survey: 0.78
 Short Range: 0.96
 Long Range: 0.97
 Navigation: 1.14
 Special: 0.86
Computers: 2
 Type: Daystrom Duotronic 1-III
 Type: Daystrom Duotronic 1-IIx

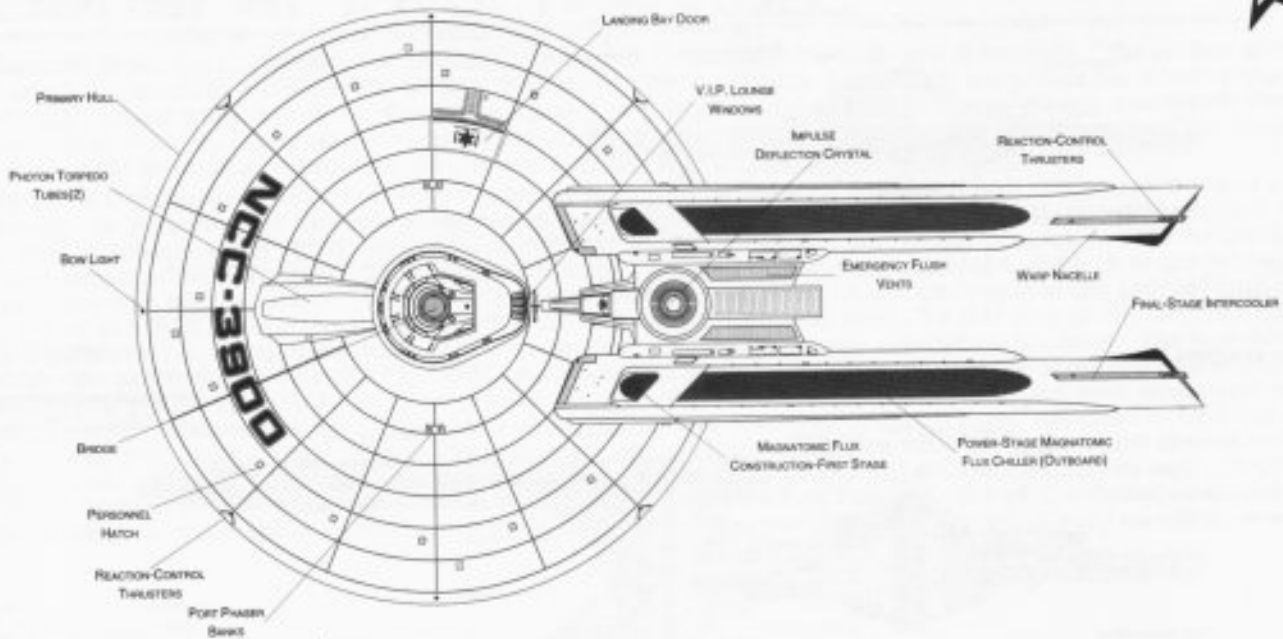
ECM Index: 0.99
Shield Rating:
 Shield Index: 0.30
 Holdoff Power: 8.83×10^{11} W
 Refresh Rate: 2.51×10^{11} W
 Breakdown Rate: 3.01×10^{11} W
Shield Dimensions (Meters)
 Length: 367.6 m
 Width: 212.6 m
 Height: 84.5 m
Weapons:
Phaser Power Index: 0.74
Photon Power Index: 1.10
Vessel Power Index: 0.92
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^5 km
 Rate of Fire: 30 ppm/Cont.
 Forward Banks: 2
 Rear Banks: 0
 Port Banks: 2
 Starboard Banks: 2
 Upper Banks: 0
 Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
 Stock: 25
 Range: 2×10^5 km
 Output: 10-50 MT
 Rate of Fire: 10 spm
 Forward Bay: 1
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

FEDERATION VESSEL

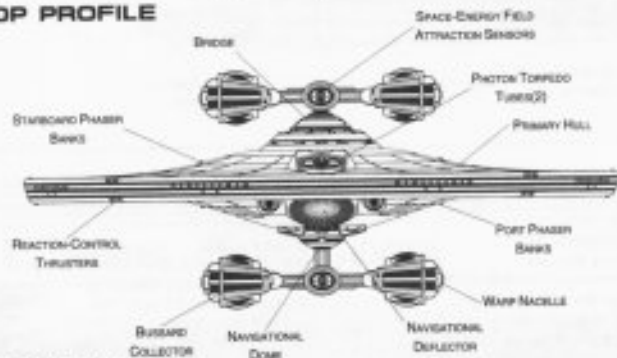
FAST CRUISER



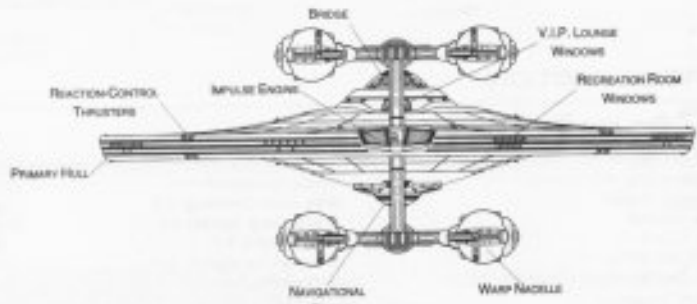
CHEETAH CLASS



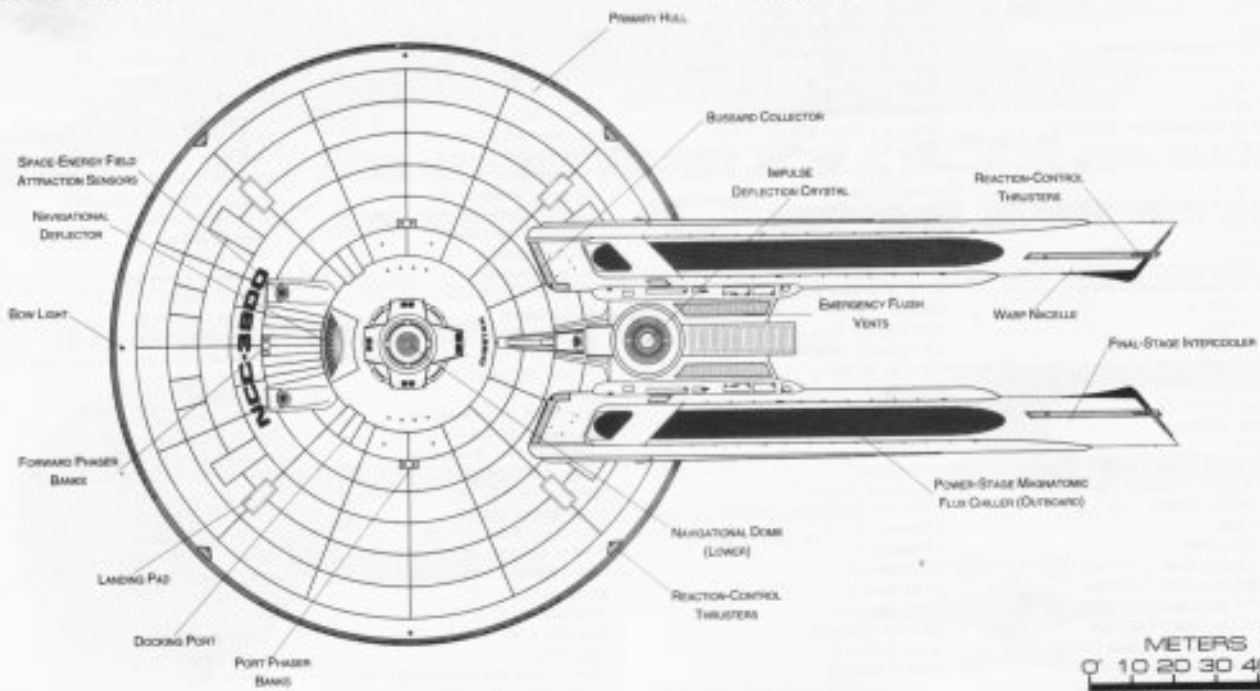
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800

FEDERATION VESSEL



FAST CRUISER

Ship Names

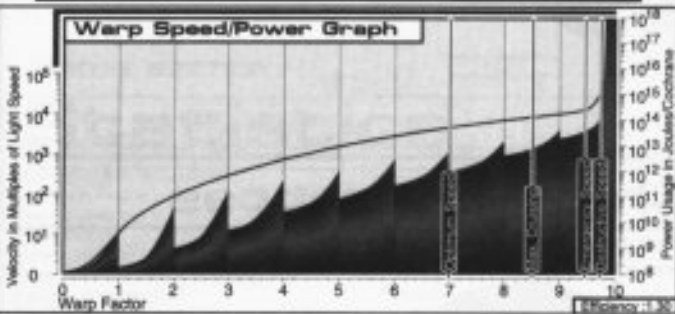
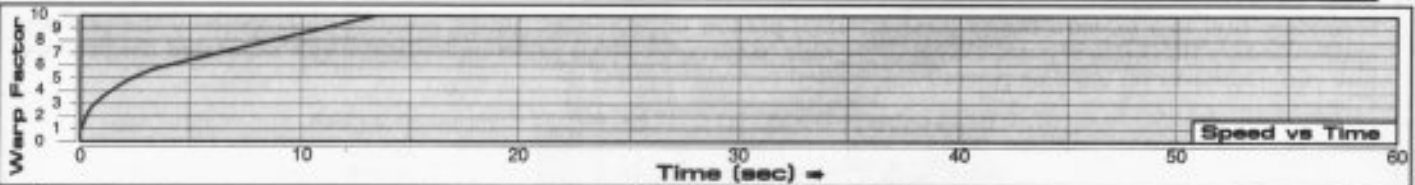
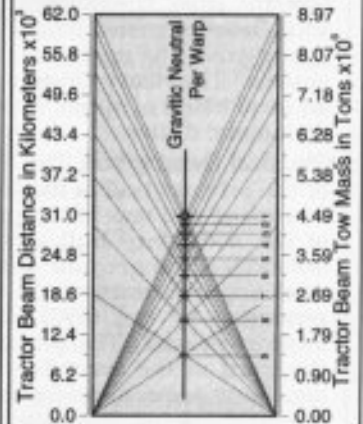
THE FOLLOWING SHIPS OF THE MK-XVII_a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2272.10

ALFORUD ·NCC-3926***	MONTON ·NCC-3933***
ALLRED ·NCC-3908	NEANDER ·NCC-3915***
BARNER ·NCC-3921***	NOBLETT ·NCC-3922***
BERYL ·NCC-3932***	ODIN ·NCC-3914***
BOLEY ·NCC-3911***	PARNELL ·NCC-3912***
CANNON ·NCC-3919***	REYWAIN ·NCC-3925***
CARTONIAN ·NCC-3902	SHELDON ·NCC-3929***
CHEETAH ·NCC-3900*	STRAUSS ·NCC-3939***
DOBBINS ·NCC-3924***	SUITER ·NCC-3905
DYESS ·NCC-3916***	TANDLEY ·NCC-3907
EDINBURGH ·NCC-3934***	UNDERWOOD ·NCC-3941***
EWALT ·NCC-3927***	WALES ·NCC-3920***
FARROW ·NCC-3930***	WELLS ·NCC-3925***
GRAYDON ·NCC-3931***	WORLEY ·NCC-3928***
GUATANIMA ·NCC-3901	WRUBEL ·NCC-3906
GURICK ·NCC-3913***	YELDEL ·NCC-3904
HABLES ·NCC-3916***	ZUROWSKI ·NCC-3936***
HAMMITICK ·NCC-3903	
HERNANDEZ ·NCC-3923***	
HOSEA ·NCC-3909	
JENGI ·NCC-3940***	
KIRKLAND ·NCC-3917***	
KOWAN ·NCC-3937***	
LANDIS ·NCC-3910	
LINDLEY ·NCC-3938***	

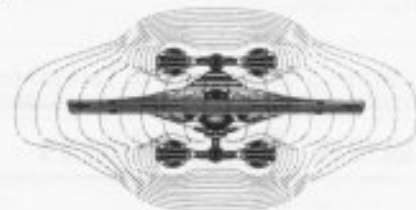
*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

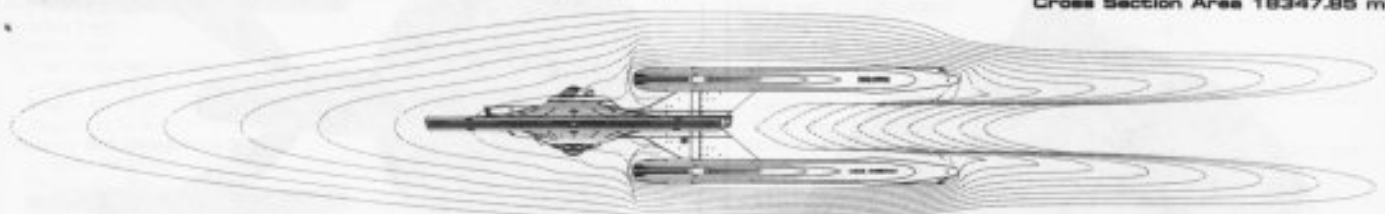
Primary Tractor Beam Load Calculator



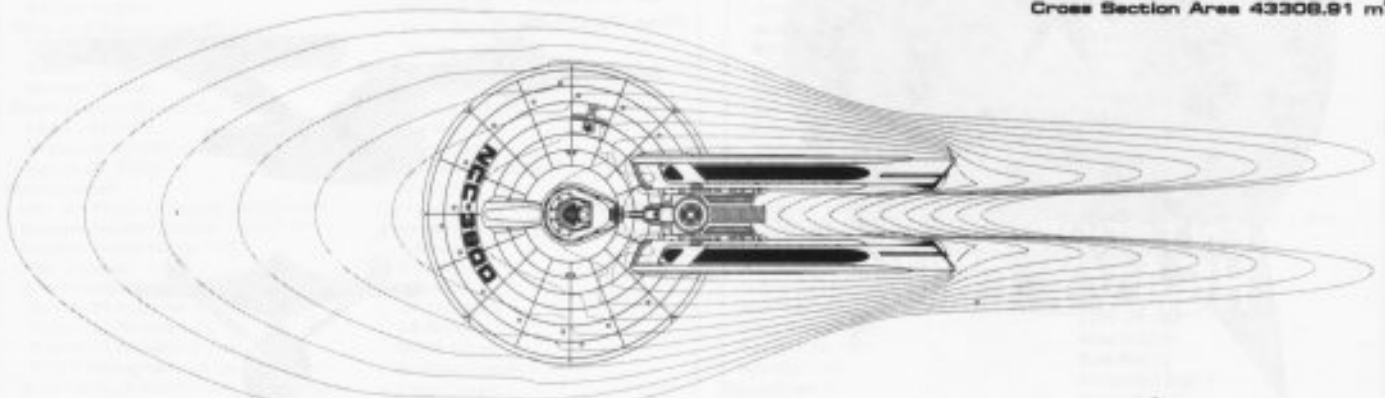
Field Length 549.51m
Field Width 191.25m
Field Height 95.94m



Front Warp Field Profile
Cross Section Area 18347.85 m²



Port Warp Field Profile
Cross Section Area 43308.91 m²



Top Warp Field Profile
Cross Section Area 77968.93 m²

CHEETAH CLASS

FEDERATION VESSEL

HEAVY CRUISER



General Information

Specific Role: The Heavy Cruiser is the most versatile and widely recognized starship in the Federation. Equipped with both extensive laboratories and weapon systems, the vessel can easily conduct both research and military operations. The cruiser is often used as a research platform in areas that are too dangerous for dedicated research vessels. The Heavy Cruiser has proven to be the most successful starship design in Starfleet's inventory, exhibiting an ideal blend of speed, power and performance. Very often, due to the versatility of the vessel, it is called upon for diplomatic duties.

Physical Description: The (PH147/C-C3) primary hull is equipped with the (BS10/C-H2) bridge. On the lower part of the primary hull is the (SM49/12H) main sensor array and (DN4/10H) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Towards the rear of the secondary hull above the hangar deck are two (BP2/30-2C) phaser banks. On the underside of the secondary hull are four additional (BP2/30-2C) phaser banks. To the rear of the primary hull are (IRF35E/4-IR) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels' warp fields are generated by two (SW52/1-5RT) warp nacelles attached to the (SH117/C-H2) secondary hull by (DU/35-6F) support pylons. The primary and secondary hulls are joined by the (DU/50-48C) connecting dorsal. Located to the front of the secondary hull is the (DN2/D-9) navigational deflector used to assist the shields in deflecting oncoming projectiles. To the rear of the secondary hull is a medium hangar deck. Running through the dorsal is the (M25/14-2E) intermix chamber. The (AM8/36-4F) matter/antimatter storage tanks are located in the forward-lower secondary hull in line with the dorsal spine for emergency jettisoning. Nestled between the dorsal and the secondary hull is a forward facing (PB2/25-10G) photon torpedo bay. In the event of an emergency the primary and secondary hulls can separate; each being able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.

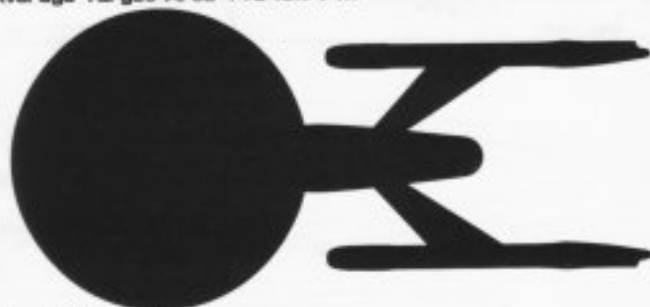
For additional detail refer to Datasheet MV-2

Class Emblem



Ship Silhouettes

Total Target Area 34831.13 m²
Average Target Area 11843.71 m²



Top Silhouette
Area 22711.42 m²



Port Silhouette
Area 2217.55 m²

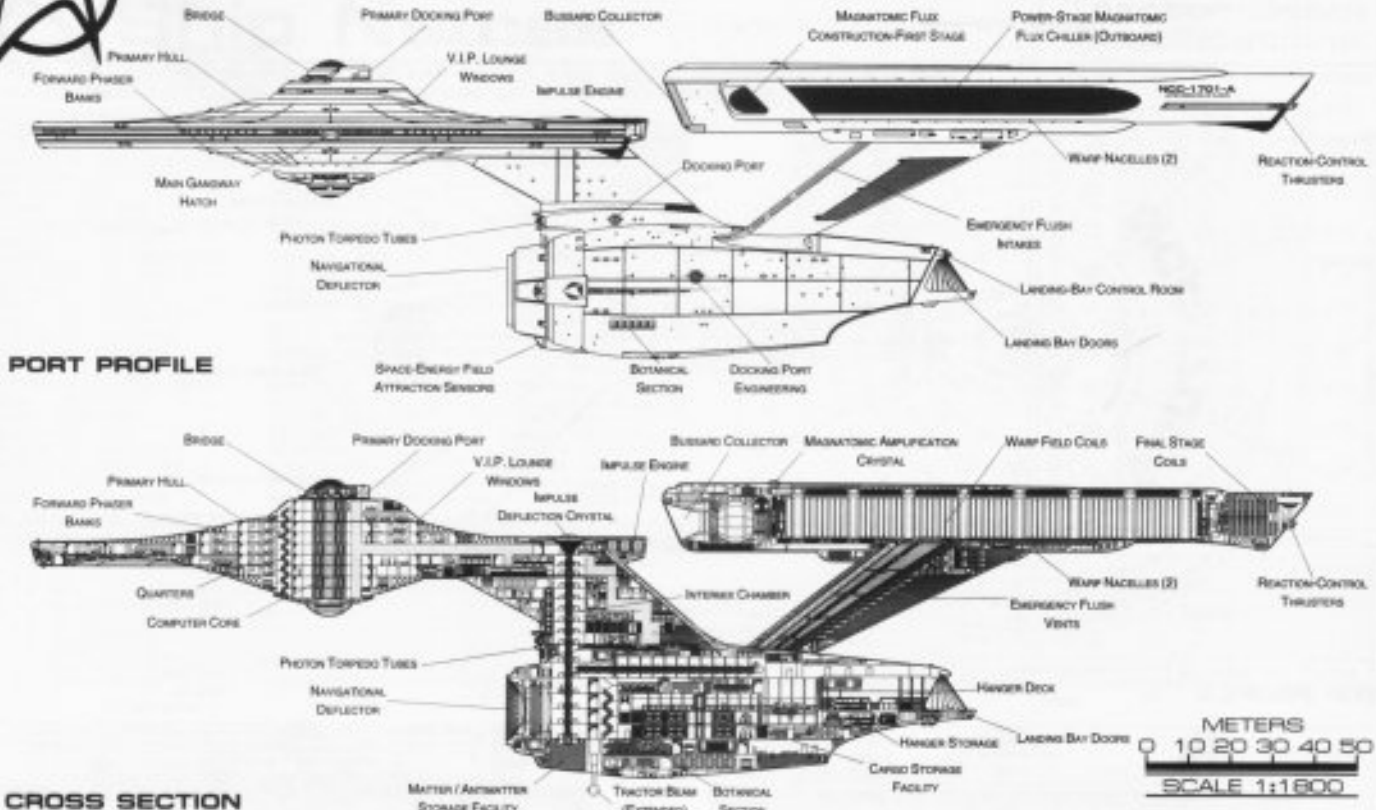


Front Silhouette
Area 4002.16 m²



HEAVY CRUISER

ENTERPRISE CLASS



Statistics

Classification: Heavy Cruiser

Category: Cruiser

Class: Enterprise

Type: Class 1

Model: MK-DXA

Neval Construction Contract: 1700

Number Proposed: 80

Number Constructed: 50

Number in Service: 49

Number Lost: 1

Dimensions:

Overall Dimensions (Meters)

Length: 304.8 m

Width: 141.72 m

Height: 71.31 m

Primary Hull Dimensions (Meters)

Length: 146.31 m

Width: 141.72 m

Height: 32.94 m

Secondary Hull Dimensions (Meters)

Length: 121.23 m

Width: 32.92 m

Height: 31.59 m

Warp Unit Dimensions (Meters)

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

Displacement (Metric Tons)

Light: 184381 mt

Standard: 197543 mt

Full Load: 220521 mt

Performance:

Impulse Units: Dual Unit (IRF35E4-IR)

Impulse Engine Output: 7.8×10^{10} W

Impulse Power Index: 1.00

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.2 sec.

0.25-0.50 Impulse: 0.3 sec.

0.50-0.75 Impulse: 0.4 sec.

0.75-Full Impulse: 0.5 sec.

Warp Units: 2 Nacelle Units (SW521-5RT)

Warp Engine Output: 1.2×10^{15} W

Warp Power Index: 1.00

Optimum Speed: 4

Max. Safe Cruising: 6

Emergency Speed: 6

Max. Speed: 9.1

Destructive Speed: 9.25

Acceleration Power: 3

Acceleration Times:

Warp 1 - Warp 2: 0.2 sec.

Warp 2 - Warp 3: 0.32 sec.

Warp 3 - Warp 4: 1.21 sec.

Warp 4 - Warp 5: 1.74 sec.

Warp 5 - Warp 6: 1.86 sec.

Warp 6 - Warp 7: 2.01 sec.

Warp 7 - Warp 8: 2.58 sec.

Warp 8 - Warp 9: 3.69 sec.

Warp 9 - Warp 9.5: 8.2 sec.

Warp 9.5 - Warp 9.75: 9.5 sec.

Warp 9.75 - Warp 9.9: 19.7 sec.

Duration (Years)

Standard: 4 Years

Maximum: 16 Years

Std. Ship Complement: 434

Officers: 72

Crew (Ensign Grade): 350

Troops: 12

Passengers: 50

Emergency condition: + 600

Medical Facilities:

Doctors: 4

Medical Staff 9

Operating Rooms: 3

Beds: 21

Laboratories: 6

Transporters Total: 13

1 Person: 0

2 Person: 0

6 Person: 4

12 Person: 0

22 Person: 4

Small Cargo: 2

Medium Cargo: 2

Large Cargo: 0

Super Cargo: 0

Brigs: 12

Replicators: 15

Tractor Beams: 1

Tow Capacity: 3.5×10^8 mt

Max Range: 1×10^5 km

Cargo Specification:

Standard Cargo Units: 450

Cargo Capacity: 22500 mt

Shuttlecraft Specifications:

Docking Ports: 5

Shuttlecraft Bays Total: 1

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 24

Work Bees: 2

Travel Pods: 2

Aquatic Shuttle: 1

Light Shuttle: 1

Standard Shuttle: 1

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 1

Killer Bees: 3

Light Fighter: 4

Fighter: 4

Heavy Fighter: 3

Lifeboats: 45

Turbolift (8 person): 25

Lifeboat (10 person): 14

Lifeboat (20 person): 6

Lifeboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 1.00

Stellar Survey: 1.00

Short Range: 1.00

Long Range: 1.00

Navigation: 1.00

Special: 1.00

Computers: 2

Type: Daystrom Duotronic 1-1EB

Type: Daystrom Duotronic 1-1Eh

ECM Index: 1.00

Shield Rating:

Shield Index: 0.50

Holdoff Power: 1.62×10^{10} W

Refresh Rate: 4.6×10^{11} W

Breakdown Rate: 5.53×10^{11} W

Shield Dimensions (Meters)

Length: 457.2 m

Width: 212.6 m

Height: 107 m

Weapons:

Phaser Power Index: 1.00

Photon Power Index: 1.00

Vessel Power Index: 1.00

Weapon Placement:

Beam (Phasers) Total: 9 banks 2 each

Output: 5×10^{11} W 2.5×10^{11} W

Range: 2.5×10^5 km

Rate of Fire: 30 ppm/Cont.

Forward Banks: 2

Rear Banks: 1

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 2

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 2 Bays

Stock: 25

Range: 2×10^6 km

Output: 10-50 MT

Rate of Fire: 10 spm

Forward Bay: 1

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

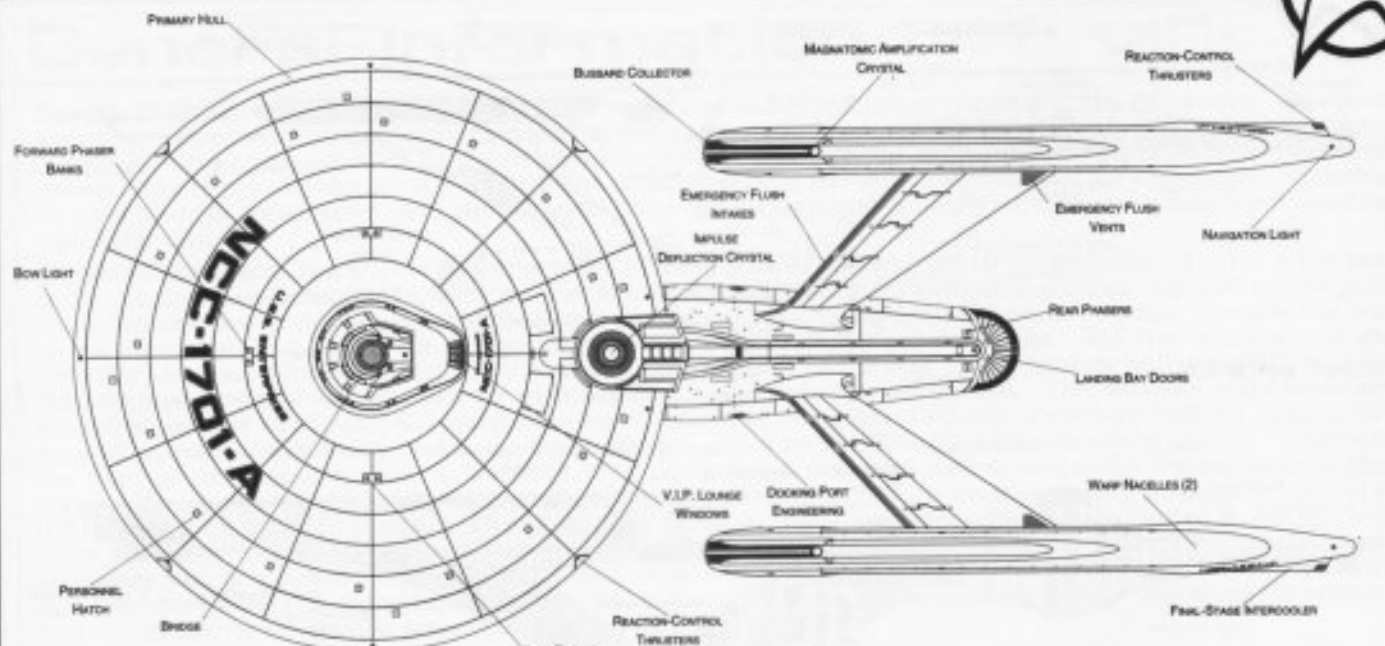
Lower Bay: 0

FEDERATION VESSEL

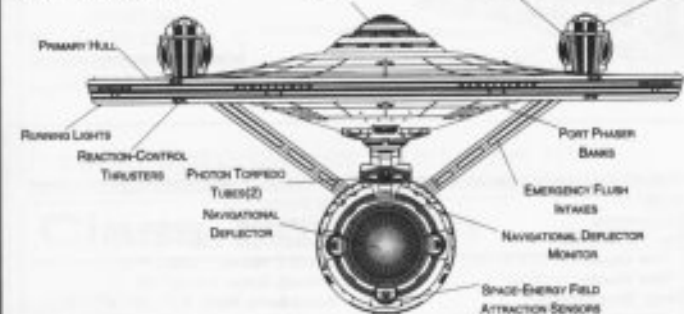
HEAVY CRUISER



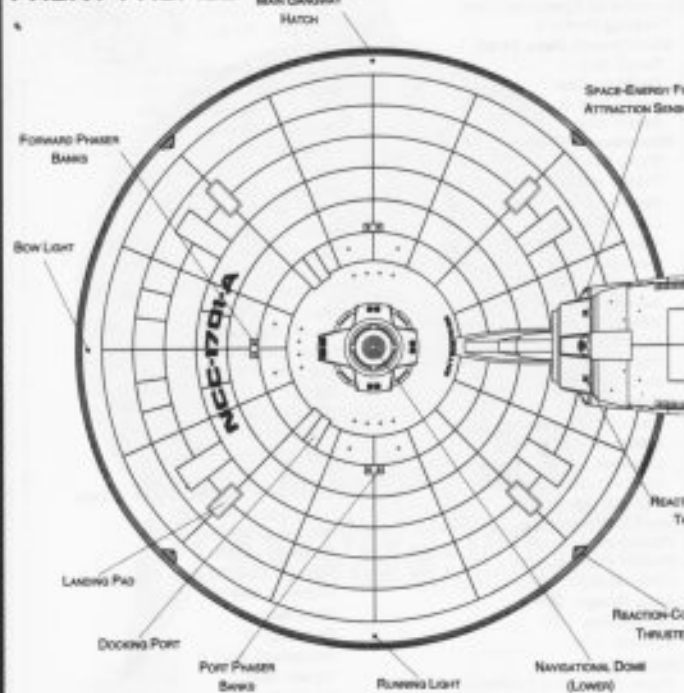
ENTERPRISE CLASS



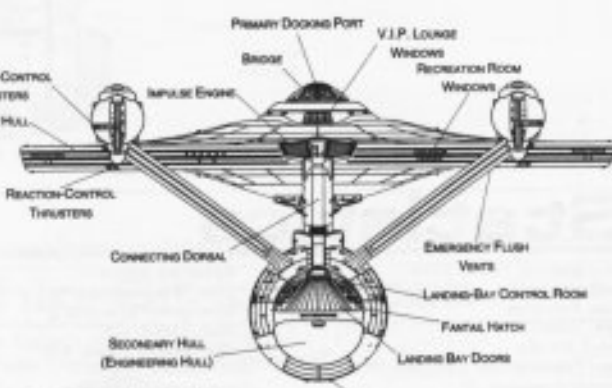
TOP PROFILE



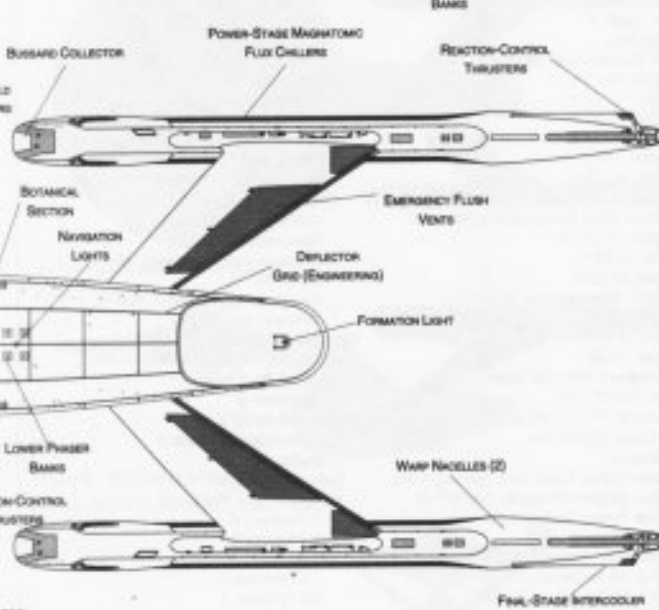
FRONT PROFILE



BOTTOM PROFILE



REAR PROFILE



FEDERATION VESSEL



HEAVY CRUISER

Ship Names

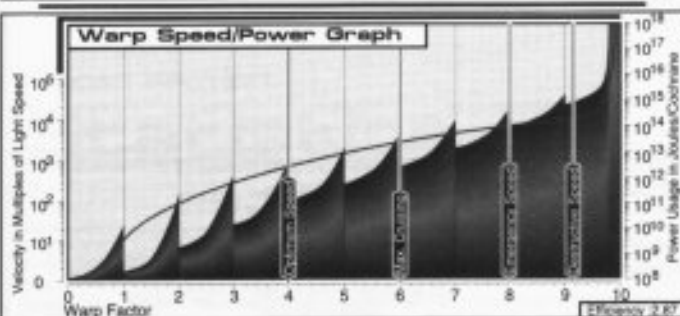
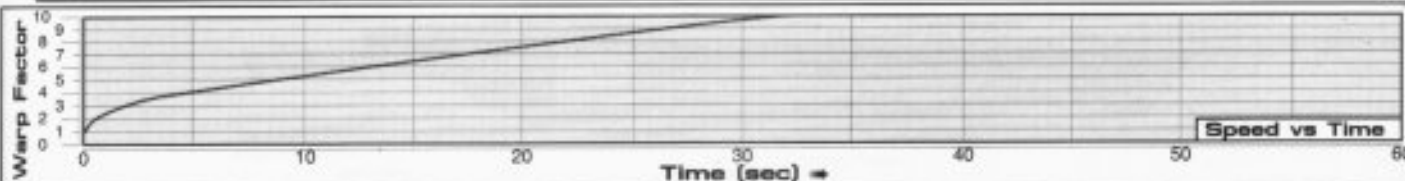
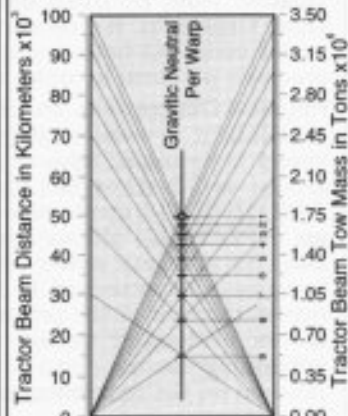
THE FOLLOWING SHIPS OF THE MK-IXa CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.2

ACHERNAR -NCC-1732	GALINA -NCC-1784***	MONITOR -NCC-1713	TAJARHI -NCC-1783***
ALFERAZ -NCC-1781***	GHAR -NCC-1786***	NDELE -NCC-1758***	TALI -NCC-1751
ALFR -NCC-1741	GHONDR -NCC-1749	OBLK -NCC-1772***	TEMIR -NCC-1763***
ANDROCOS -NCC-1738	HAIJ -NCC-1782***	OOMARU -NCC-1761***	THELONII -NCC-1742
ANNOBON -NCC-1752***	HOOD -NCC-1707	PAEGAN -NCC-1759***	THOLUS -NCC-1747
ARI -NCC-1723	HORNET -NCC-1714	PARI -NCC-1787***	TOR -NCC-1725
ASTRAD -NCC-1739	HOROK -NCC-1748	PELIONE -NCC-1750	TULAN -NCC-1777***
BONHOMME RICHARD -NCC-1712	INTREPID -NCC-1708	PHARDOS -NCC-1757***	VALIANT -NCC-1709
CASPAN -NCC-1753***	JASSAN -NCC-1754***	PILAR -NCC-1746	VEGA -NCC-1730
CONSTELLATION -NCC-1728***	JUPITER -NCC-1734	POTEMPKIN -NCC-1711	WASP -NCC-1721
INDEPENDENCE -NCC-1700	KAP SALLU -NCC-1783***	PROCYON -NCC-1756***	XANTHI -NCC-1743
DEFIANCE -NCC-1717	KARS -NCC-1789***	PROXIMA -NCC-1737	YAAN -NCC-1762***
EAGLE -NCC-1719	KASIMAR -NCC-1784***	QUAL'AT -NCC-1776***	YORKTOWN -NCC-1704
EKINUS -NCC-1771***	KESTRAL -NCC-1786***	QUINDAR -NCC-1736	ZAAHM -NCC-1780***
EL DORADO -NCC-1722	KETOI -NCC-1788***	QUZAN -NCC-1775***	ZA-FARAN -NCC-1760***
ENDEAVOR -NCC-1716	KONGO -NCC-1710	REPUBLIC -NCC-1729	ZINDAR -NCC-1759
ENTERPRISE -NCC-1701**	KRIEGER -NCC-1726	RIGIL KENTAURUS -NCC-1735	
ENTERPRISE (II) -NCC-1701A*	LAFAYETTE -NCC-1720	SALAYNA -NCC-1774***	
ESABL -NCC-1779***	LEXINGTON -NCC-1703	SAMAARA -NCC-1785***	
ESKIS -NCC-1789***	MAZDA -NCC-1778***	SARATOGA -NCC-1724***	
ESSEX -NCC-1727	MENGEN -NCC-1773***	SHAR -NCC-1745	
EXCALIBUR -NCC-1705	MERRIMAC -NCC-1715	SINUJI -NCC-1770***	
EXCELSIOR -NCC-1718**	MIRAZH -NCC-1788***	SIRIUS -NCC-1744	
EXETER -NCC-1706	MONDOLOY -NCC-1740	SOL -NCC-1733	
FARRAGUT -NCC-1702	MONGO -NCC-1785***	SPICA -NCC-1731	

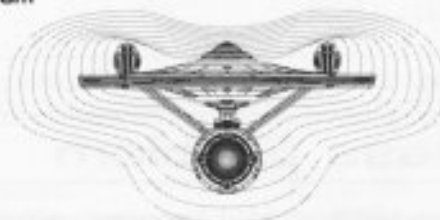
*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

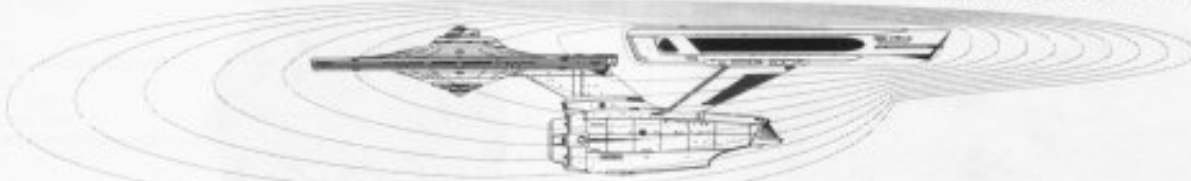
Primary Tractor Beam Load Calculator



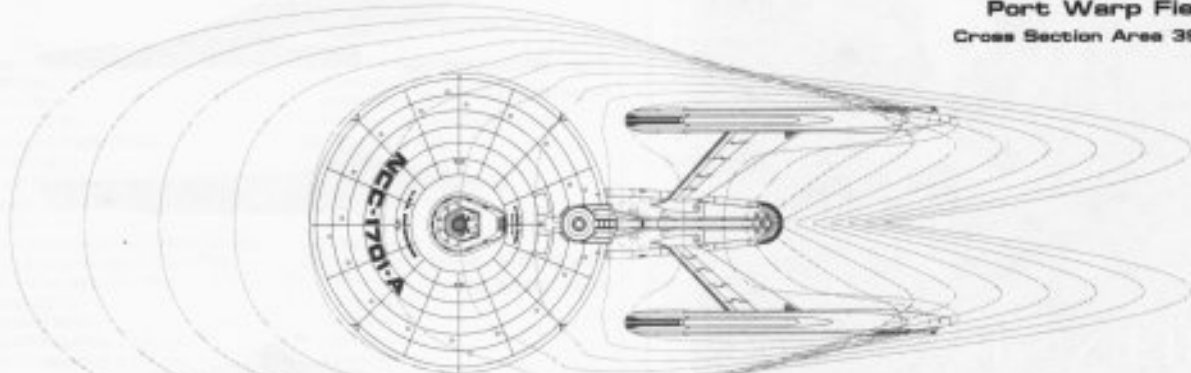
Field Length 565.79m
Field Width 207.69m
Field Height 100.96m



Front Warp Field Profile
Cross Section Area 14632.46 m²



Port Warp Field Profile
Cross Section Area 39296.22 m²



Top Warp Field Profile
Cross Section Area 81833.14 m²

WARP FIELDS

SRMA-1 05:03:06:04

STARFLEET REFERENCE MANUAL

ENTERPRISE CLASS

FEDERATION VESSEL

LIGHT CRUISER



SHANKS CLASS

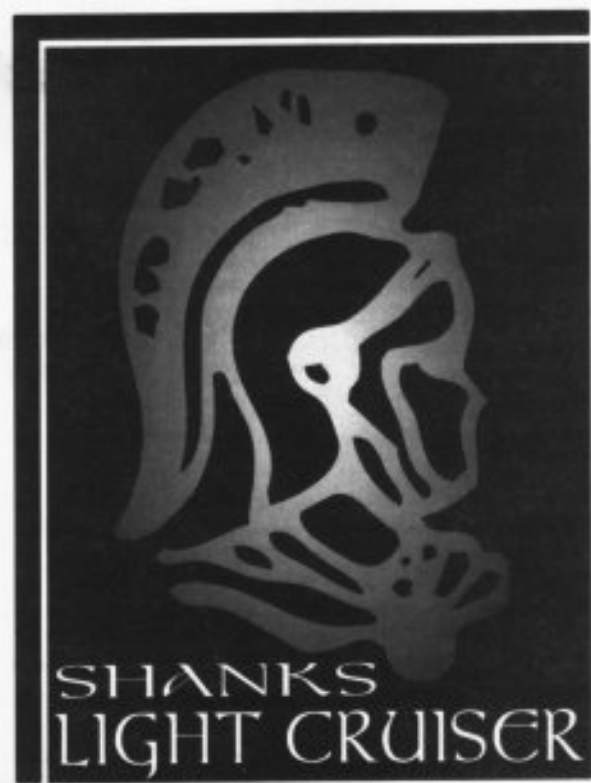
General Information

Specific Role: By using modular components and cost effective assembly techniques, Starfleet was able to add a Light Cruiser to it's comprehensive inventory. Equipped with moderate laboratories and weapons systems, the vessel conducts both research and military operations at an economical cost. The cruiser is often used as a light research platform in areas where a dedicated research vessel may not be able to defend itself.

Physical Description: The (PH147/C-F4) primary hull module is reinforced to compensate for the stress created by attachment of warp nacelles directly to the hull. A small hangar deck is located on the upper starboard side. The vessel is equipped with the (BS10/C-L3) bridge. On the lower part of the primary hull is the (SM49/2W) main sensor array, (DN4/5B) navigational dome. Located on the top of the primary hull is the forward facing and (PB2/25-10W) torpedo bay. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. To the rear of the primary hull are (IRF35E/5-AF) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessels's warp fields are generated by two (SW52/1-5DB) warp nacelles attached to both sides of the primary hull (DU/20-10S) connecting dorsals. Located horizontally across the rear of the primary hull, just inside each pylon is the (M31/1-2E) intermix chamber. The (AM8/30-4T) matter/antimatter storage tanks are located on the rear part of the hull, along the outer edge, for emergency jettisoning. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power

For additional detail refer to Datasheet MV-10

Class Emblem



Ship Silhouettes

Total Target Area 26155.33 m²
Average Target Area 8718.44 m²



Top Silhouette
Area 20543.93 m²



Port Silhouette
Area 3556.29 m²



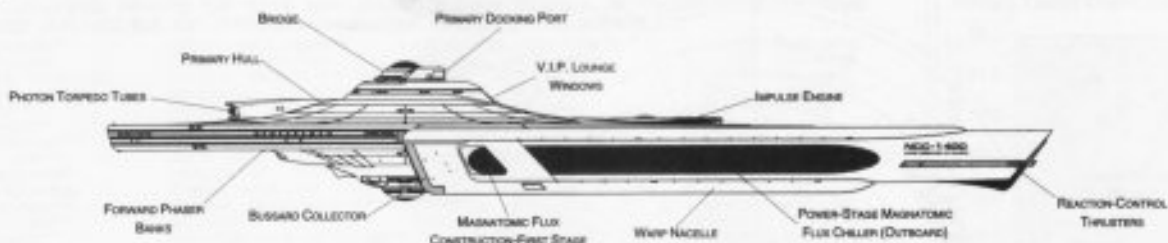
Front Silhouette
Area 2055.11 m²

FEDERATION VESSEL

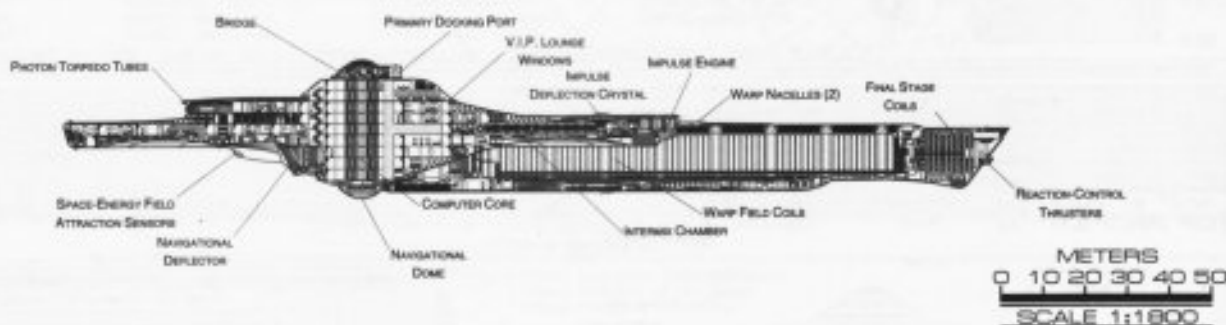


LIGHT CRUISER

SHANKS CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Light Cruiser
Category: Cruiser
Class: Shanks
Type: Class 1
Model: MK-XIIIa
Naval Construction Contract: 1400
Number Proposed: 98
Number Constructed: 42
Number in Service: 42
Number Lost: 0
Dimensions:
Overall Dimensions (Meters)
 Length: 224.93 m
 Width: 172.66 m
 Height: 32.94 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 17.02 m
Displacement (Metric Tons)
 Light: 120782 mt
 Standard: 129404 mt
 Full Load: 144456 mt
Performance:
Impulse Units: Dual Unit (RF35E3-GB)
Impulse Engine Output: 7.6×10^{13} W
Impulse Power Index: 1.53
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.131 sec.
 0.25-0.50 Impulse: 0.197 sec.
 0.50-0.75 Impulse: 0.262 sec.
 0.75-Full Impulse: 0.328 sec.
Warp Units: 2 Nacelle Units (SW52/1-SAC)
Warp Engine Output: 1.2×10^{15} W
Warp Power Index: 1.53

Optimum Speed: 4
Max. Safe Cruising: 6
Emergency Speed: 8
Max. Speed: 9.1
Destructive Speed: 9.25
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.131 sec.
 Warp 2 - Warp 3: 0.21 sec.
 Warp 3 - Warp 4: 0.793 sec.
 Warp 4 - Warp 5: 1.14 sec.
 Warp 5 - Warp 6: 1.218 sec.
 Warp 6 - Warp 7: 1.317 sec.
 Warp 7 - Warp 8: 1.69 sec.
 Warp 8 - Warp 9: 2.417 sec.
 Warp 9 - Warp 9.5: 5.372 sec.
 Warp 9.5 - Warp 9.75: 6.223 sec.
 Warp 9.75 - Warp 9.9: 12.905 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 347
 Officers: 57
 Crew (Ensign Grade): 280
 Troops: 10
 Passengers: 30
 Emergency condition: + 466
Medical Facilities:
 Doctors: 3
Medical Staff
 Operating Rooms: 2
 Beds: 16
Laboratories: 4
Transporters Total: 8
 1 Person: 0
 2 Person: 0
 6 Person: 3
 12 Person: 0
 22 Person: 3
 Small Cargo: 1
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

Bridges: 8
Replicators: 10
Tractor Beams: 1
 Tow Capacity: 3.74×10^6 mt
 Max Range: 6×10^4 km
Cargo Specifications:
 Standard Cargo Units: 162
 Cargo Capacity: 9100 mt
Shuttlecraft Specifications:
 Docking Ports: 1
 Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 17
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 3
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
 Lifeboats: 33
 Turbolift (8 person): 16
 Lifeboat (10 person): 12
 Lifeboat (20 person): 5
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.95
 Stellar Survey: 0.95
 Short Range: 0.95
 Long Range: 0.97
 Navigation: 0.99
 Special: 0.94
Computers: 2
 Type: Daystrom Duetronic 1-IIIg
 Type: Daystrom Duetronic 1-IIIp

ECM Index: 0.99
Shield Rating:
 Shield Index: 1.15
 Holdoff Power: 2.44×10^{12} W
 Refresh Rate: 6.90×10^{11} W
 Breakdown Rate: 8.32×10^{11} W
Shield Dimensions (Meters)
 Length: 337.4 m
 Width: 259 m
 Height: 49.4 m
Weapons:
 Phaser Power Index: 1.02
 Photon Power Index: 1.53
 Vessel Power Index: 1.27
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^8 km
 Rate of Fire: 30 ppm/Cont.
 Forward Banks: 2
 Rear Banks: 0
 Port Banks: 2
 Starboard Banks: 2
 Upper Banks: 0
 Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
 Stock: 25
 Range: 2×10^8 km
 Output: 10-50 MT
 Rate of Fire: 10 apm
 Forward Bay: 1
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

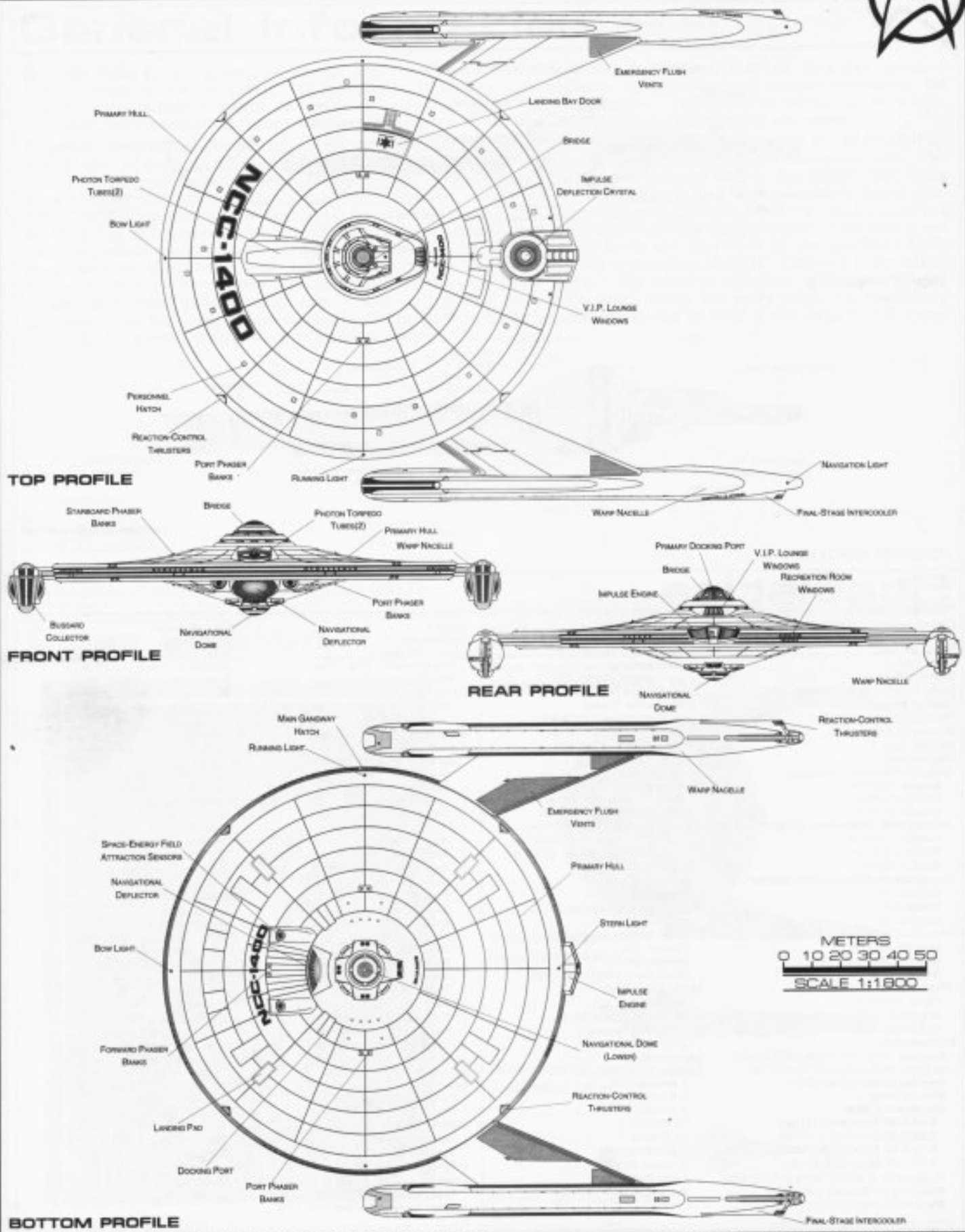
FEDERATION VESSEL

LIGHT CRUISER



SHANKS CLASS

FEDERATION VESSEL



METERS
0 10 20 30 40 50
SCALE 1:1800



LIGHT CRUISER

Ship Names

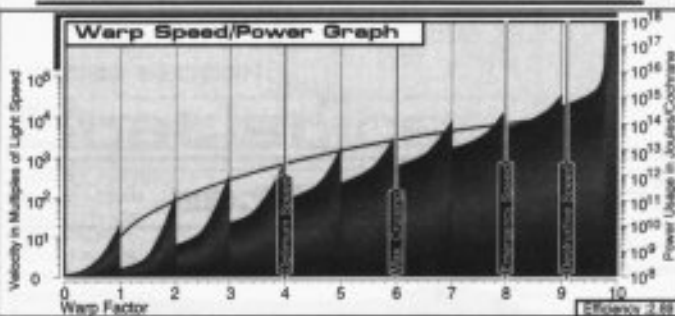
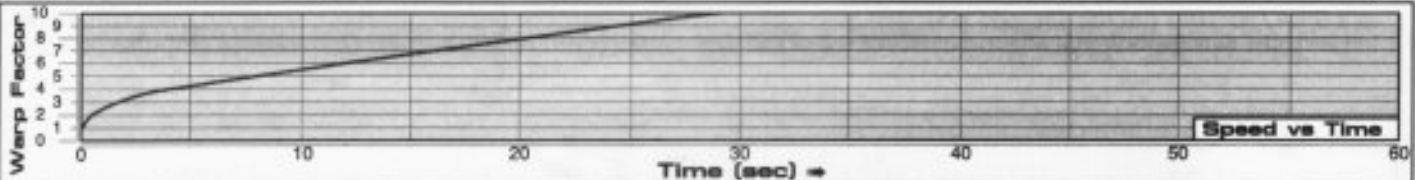
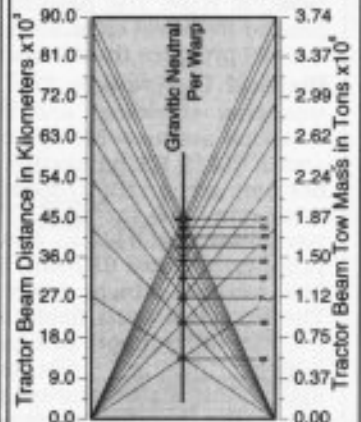
THE FOLLOWING SHIPS OF THE MK-XIII^a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.10

AA BURG -NCC-1495***	DIBLEY -NCC-1489***	LEONARDO -NCC-1454***	SANCHEZ -NCC-1434
ALZAMAN -NCC-1415	DYKOSKI -NCC-1406	MANNING -NCC-1477***	SAULTRY -NCC-1422
AMBERCROMBIE -NCC-1402	EGLAND -NCC-1473***	McDAID -NCC-1417	SHANKS -NCC-1400*
ANDERSON -NCC-1488***	ESNEAULT -NCC-1483***	MESALTO -NCC-1453***	SHERIDON -NCC-1447***
ASH -NCC-1462***	FELDMAN -NCC-1426	MESPAR -NCC-1482***	SIMMS -NCC-1479***
AVENS -NCC-1478***	FISCHLAR -NCC-1429	MONT LLOR -NCC-1444***	SLOAN -NCC-1414
BADLANDS -NCC-1451***	FLEMING -NCC-1475***	NUREMBER -NCC-1403	SPURLANE -NCC-1409
BALLOU -NCC-1471***	FRITZ -NCC-1456***	OAKUS -NCC-1441	TALLEDEGA -NCC-1448***
BANDESOL -NCC-1497***	GRANDSTAFF -NCC-1427	OLIVSKI -NCC-1410	TALGO -NCC-1440
BERRINGER -NCC-1408	GREER -NCC-1442	OLIVERT -NCC-1428	THORNTON -NCC-1457***
BROYLES -NCC-1459***	GRIMES -NCC-1494***	OLMSTED -NCC-1420	TORNNESS -NCC-1430
BUCKLEY -NCC-1486***	GUISEPPE -NCC-1461***	OPELIKA -NCC-1432	UMPSTEAD -NCC-1468***
BYRNE -NCC-1481***	HALOGENETICS -NCC-1490***	PARAGON -NCC-1446***	UPCHURCH -NCC-1452***
CANNAN -NCC-1485***	HARSKI -NCC-1423	PELEON -NCC-1436	VARGO -NCC-1411
CARLSON -NCC-1407	HARTLEY -NCC-1413	PIKENOR -NCC-1467***	VERDUN -NCC-1431
CARPER -NCC-1439	HILDEBRAND -NCC-1484***	PINCHOT -NCC-1450***	WALMEIR -NCC-1433
CARZOLE -NCC-1476***	HOPKMAN -NCC-1458***	PINSON -NCC-1424	WILKINS -NCC-1412
CHIMATHI -NCC-1416	HULGEN -NCC-1480***	PITFIELD -NCC-1487***	WJITALIK -NCC-1469***
CORNELL -NCC-1472***	HUNTER -NCC-1419	POLARIS -NCC-1443***	WOLFSBERGER -NCC-1464***
CRISTOFFELL -NCC-1465***	JETSOR -NCC-1425	REIGLE -NCC-1493***	WYNN -NCC-1421
DAKOTA -NCC-1445***	JORDAN -NCC-1486***	REINBOLT -NCC-1449***	XIA -NCC-1435
DALHART -NCC-1474***	JTINEANT -NCC-1463***	RENFROE -NCC-1405	YEARNONE -NCC-1437
DAWSON -NCC-1470***	KARRIGAN -NCC-1455***	ROGERS -NCC-1496***	ZUPKO -NCC-1418
DECATUR -NCC-1438	KASEY -NCC-1404	ROTHWELL -NCC-1401	
DECKERT -NCC-1492***	KIRSCH -NCC-1460***	RYANS -NCC-1491***	

*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



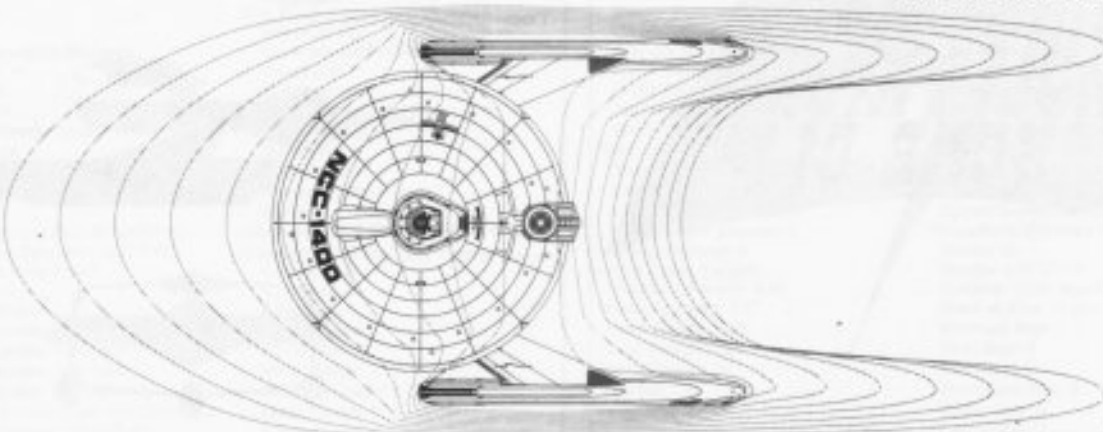
Field Length 523.86m
Field Width 203.60m
Field Height 64.77m



Front Warp Field Profile
Cross Section Area 9550.72 m²



Port Warp Field Profile
Cross Section Area 24216.29 m²



Top Warp Field Profile
Cross Section Area 69633.01 m²

SHANKS CLASS

FEDERATION VESSEL

ASSAULT FRIGATE



General Information

Specific Role: The Assault Frigate is the dreadnought of frigates. Starfleet found that a swift heavy frigate was needed to patrol colonies near Federation borders, provide troop support and system defense. The additional warp nacelle provides the Assault Frigate with necessary agility to deal with attack craft and system defense ships.

Physical Description: The Frigate incorporates an (PHE147/F-M5) extended primary hull equipped with heavy weapons, shielding, and ECM/ECCM devices; as well as a (BS10/F-R3) bridge which incorporates the larger weapons station. Mounted on the underside of the primary hull is the integrated (SM49/18G) main sensor array and (DN4/1-W) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are the (DN2/F-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-ID) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on either side of the impulse engines, in the rear of the primary hull. The vessels' warp fields are generated by three (SW52/1-5RO) warp nacelles attached to the primary hull by (DU/25-6F) support pylons. The third nacelle is located between the first two and supported by two (DU/26-8D) support pylons. Within the primary hull are the (M40/4-3Z) intermix chamber and (AM8/42-5D) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Above the primary hull extension mounted port and starboard are two (MP2/15-2G) MegaPhasers. Above the primary hull and supported by the (DU/52-12W) roll bar is a (PB4/50-10E) photon torpedo pod. In the event of an emergency the primary hull can separate from either the left or right pair (middle nacelle inclusive) of warp nacelles and proceed on the remaining nacelle or impulse power.

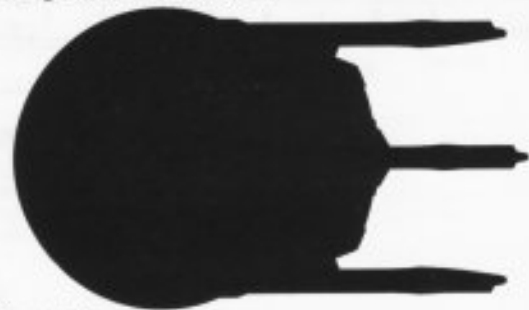
For additional detail refer to Datasheet MV-20

Class Emblem



Ship Silhouettes

Total Target Area 39326.86 m²
Average Target Area 13109.62 m²



Top Silhouette
Area 22716.07 m²



Port Silhouette
Area 6897.64 m²

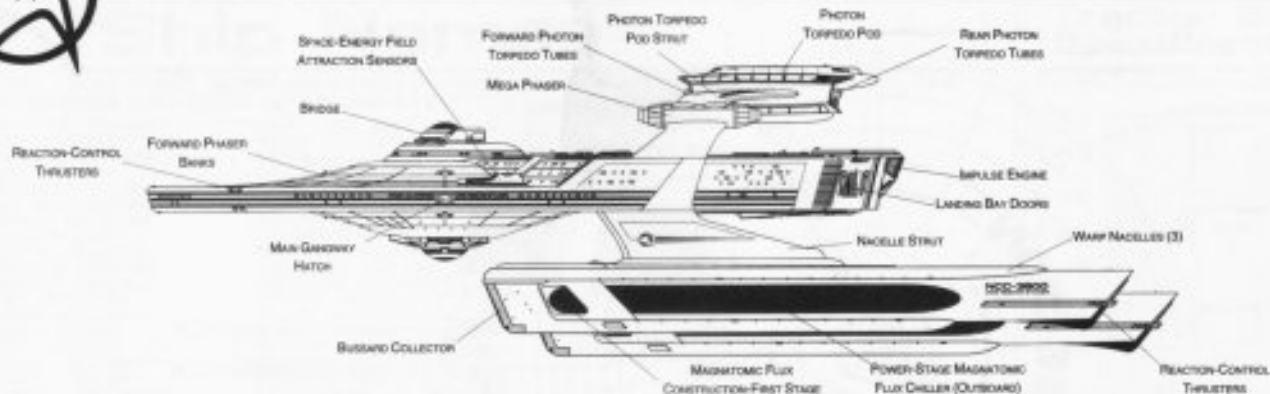


Front Silhouette
Area 9715.15 m²

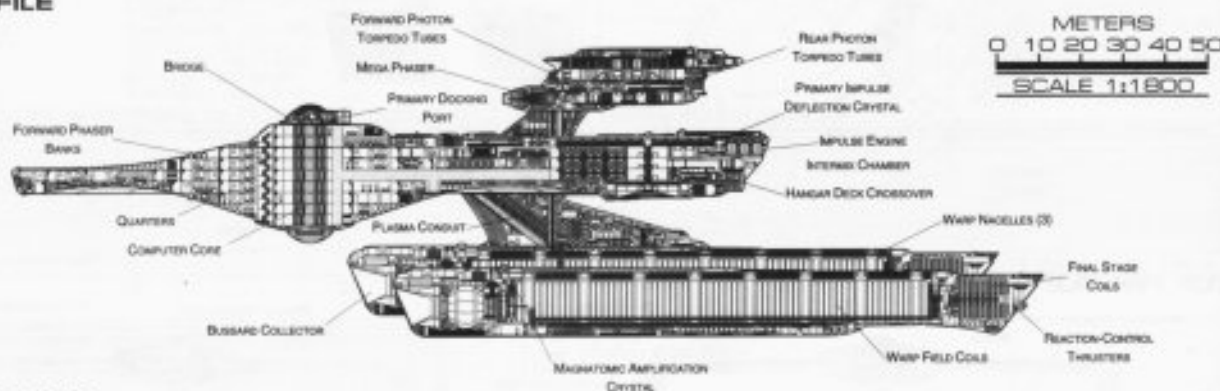


ASSAULT FRIGATE

COMANCHE CLASS



PORT PROFILE



CROSS SECTION



Statistics

Classification: Assault Frigate
Category: Frigate
Class: Comanche
Type: Class
Model: NK-XV1a
Naval Construction Contract: 3600
Number Proposed: 51
Number Constructed: 30
Number in Service: 29
Number Lost: 1
Dimensions:
Overall Dimensions (Meters)
 Length: 245.32 m
 Width: 141.72 m
 Height: 68.99 m
Primary Hull Dimensions (Meters)
 Length: 180.04 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 265362 mt
 Standard: 284305 mt
 Full Load: 317375 mt
Performance:
Impulse Units: Dual Unit (IP186E/5-ID)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 0.69
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.288 sec.
 0.25-0.50 Impulse: 0.432 sec.
 0.50-0.75 Impulse: 0.576 sec.
 0.75-Full Impulse: 0.72 sec.
Warp Units: 2 Nacelle Units (SW52/1-SRC)
Warp Engine Output: 1.8×10^{15} W
Warp Power Index: 1.04

Optimum Speed: 5
Max. Safe Cruising: 7
Emergency Speed: 8.5
Max. Speed: 9.31
Destructive Speed: 9.42
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.192 sec.
 Warp 2 - Warp 3: 0.307 sec.
 Warp 3 - Warp 4: 1.161 sec.
 Warp 4 - Warp 5: 1.669 sec.
 Warp 5 - Warp 6: 1.785 sec.
 Warp 6 - Warp 7: 1.929 sec.
 Warp 7 - Warp 8: 2.475 sec.
 Warp 8 - Warp 9: 3.54 sec.
 Warp 9 - Warp 9.5: 7.868 sec.
 Warp 9.5 - Warp 9.75: 9.115 sec.
 Warp 9.75 - Warp 9.9: 18.902 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 450
 Officers: 68
 Crew (Ensign Grade): 332
 Troops: 50
 Passengers: 40
 Emergency condition: + 559
Medical Facilities:
 Doctors: 4
Medical Staff: 9
 Operating Rooms: 3
 Beds: 21
Laboratories: 9
Transporters Total: 11
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 4
 Small Cargo: 2
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

Brigs: 32
Replicators: 22
Tractor Beams: 1
 Tow Capacity: 6.25×10^6 mt
 Max Range: 9.5×10^6 km
Cargo Specification:
 Standard Cargo Units: 364
 Cargo Capacity: 18200 mt
Shuttlecraft Specifications:
 Docking Ports: 3
 Shuttlecraft Bays Total: 2
 Small Bay: 0
 Medium Bay: 2
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 70
 Work Bees: 3
 Travel Pods: 5
 Aquatic Shuttle: 2
 Light Shuttle: 2
 Standard Shuttle: 2
 Heavy Shuttle: 2
 Cargo Shuttle: 2
 Assault Shuttle: 18
 Killer Bees: 7
 Light Fighter: 10
 Fighter: 10
 Heavy Fighter: 7
 Lifeboats: 54
 Turbolift (8 person): 36
 Lifeboat (10 person): 13
 Lifeboat (20 person): 5
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.93
 Stellar Survey: 0.77
 Short Range: 1.24
 Long Range: 1.02
 Navigation: 1.34
 Special: 1.37
Computers: 2
 Type: Daystrom Duotronic 1-IIIg
 Type: Daystrom Duotronic 1-IIIx

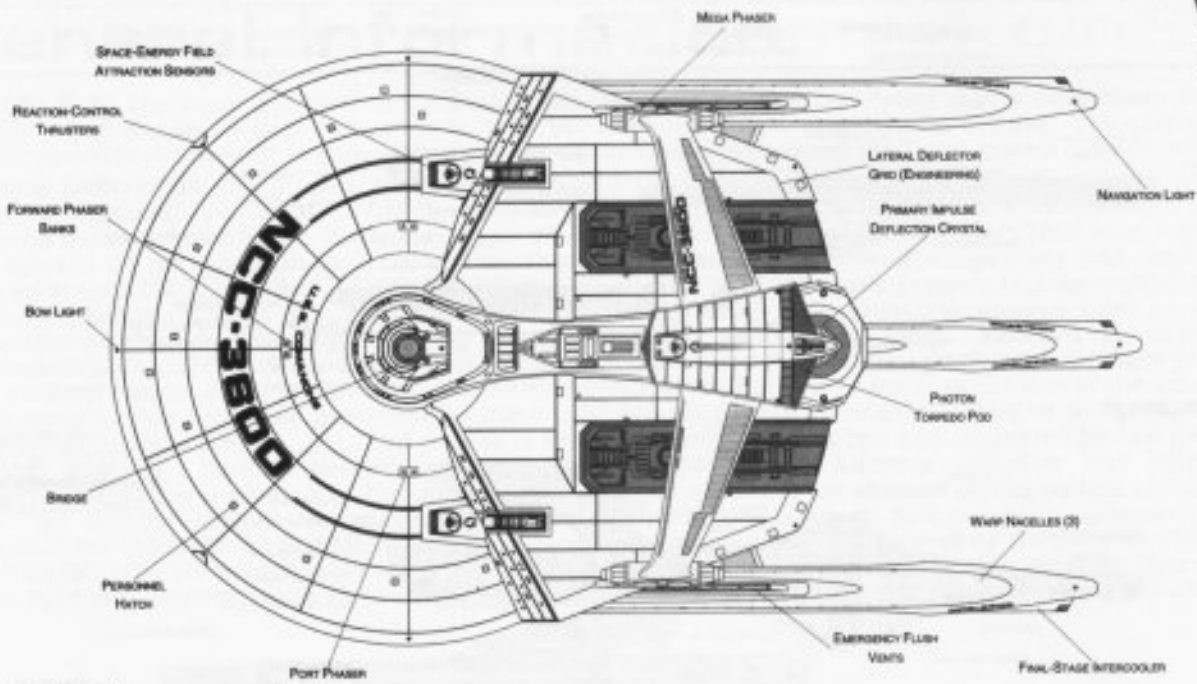
ECM Index: 1.21
Shield Rating:
 Shield Index: 0.20
 Holdoff Power: 9.27×10^{11} W
 Refresh Rate: 2.64×10^{11} W
 Breakdown Rate: 3.16×10^{11} W
Shield Dimensions (Meters)
 Length: 368 m
 Width: 212.6 m
 Height: 103.5 m
Weapons:
Phaser Power Index: 0.86
Photon Power Index: 0.00
Vessel Power Index: 0.43
Weapon Placement:
Beam (MegaPhasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
 Forward Banks: 2
 Rear Banks: 0
 Port Banks: 2
 Starboard Banks: 2
 Upper Banks: 0
 Lower Banks: 0
Beam (MegaPhasers) Total: 2
 Output: 1.8×10^{17} W 9.5×10^{11} W
 Range: 1×10^6 km
 Rate of Fire: 15 ppm
 Forward/Rear Banks: 2
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Torpedoes (Photon) Total: 4 Bays
 Stock: 40
 Range: 2.0×10^6 km
 Output: 10-50 Megatons
 Rate of Fire: 10 spm
 Forward Bay: 2
 Rear Bay: 2
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

FEDERATION VESSEL

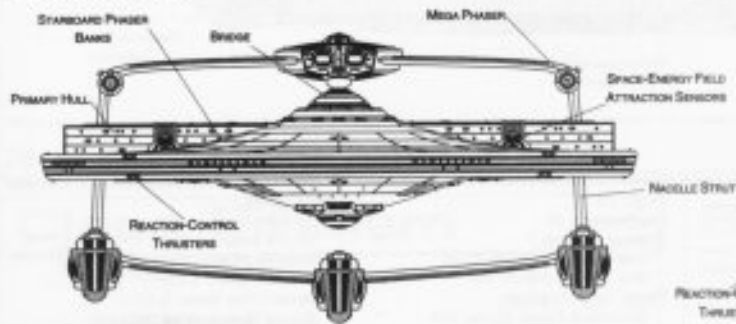
ASSAULT FRIGATE



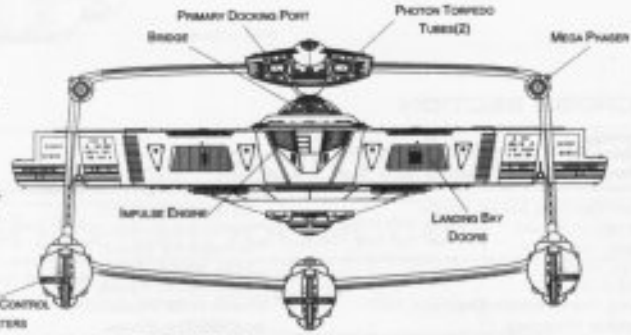
COMANCHE CLASS



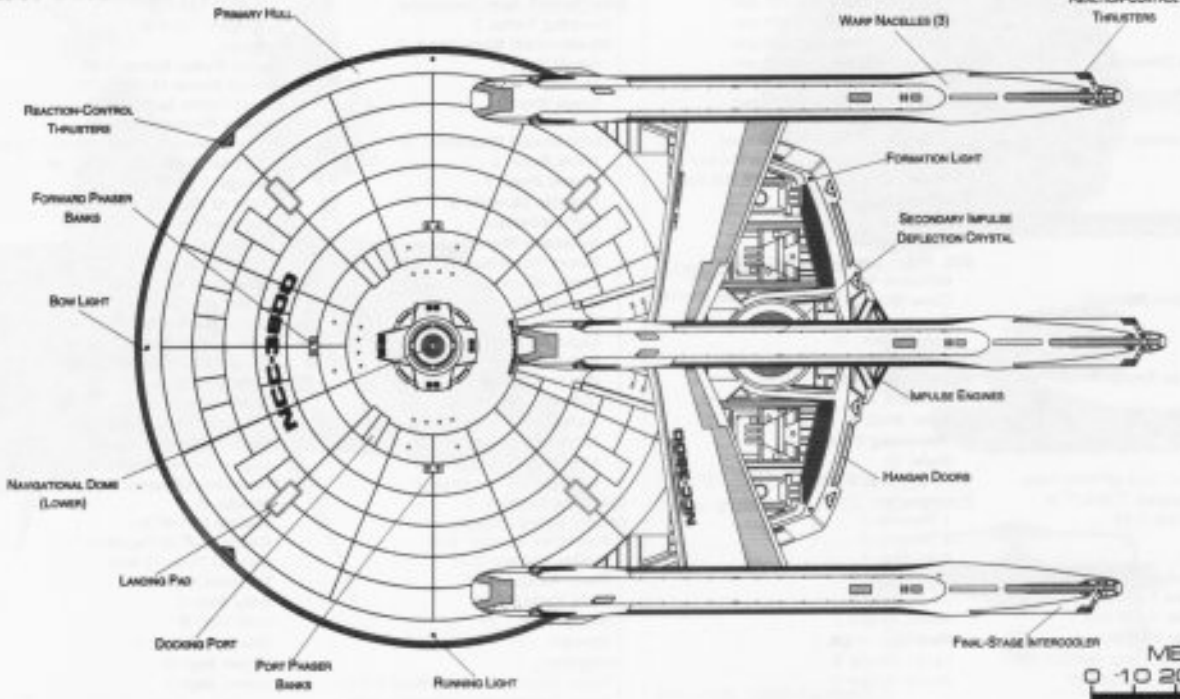
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE



FEDERATION VESSEL



ASSAULT FRIGATE

Ship Names

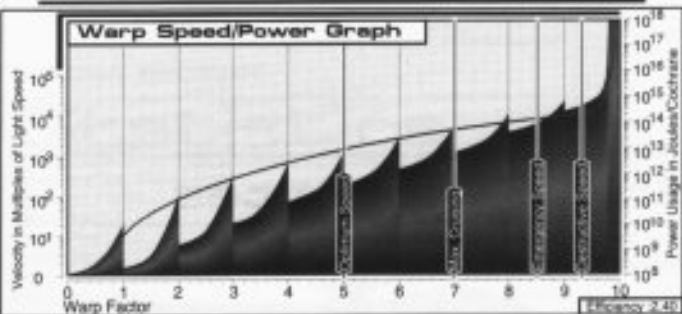
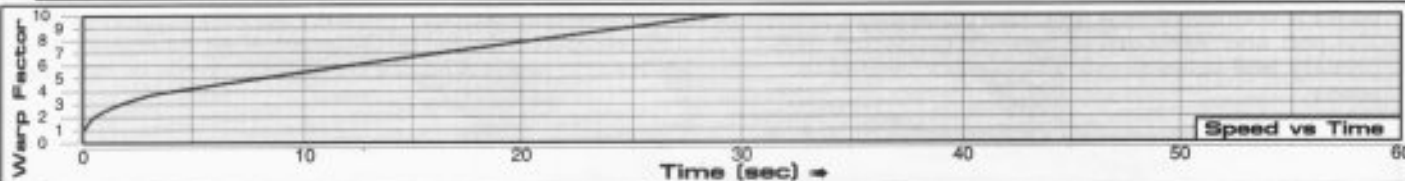
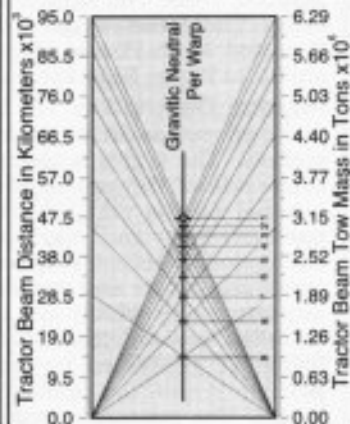
THE FOLLOWING SHIPS OF THE MK-XVI^a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2270.9

ABANOWICZ •NCC-3628	JUZAT •NCC-3630***	WOULARD •NCC-3620
ACKERT •NCC-3636***	KIOWA •NCC-3616	YOST •NCC-3604
ARAPPAHO •NCC-3609	KIOWA •NCC-3634***	
BABIN •NCC-3601	LITTLEER •NCC-3619	
BADGETT •NCC-3606	MANRY •NCC-3640***	
BLACK FEET •NCC-3649***	MOREA •NCC-3647	
BURNHAM •NCC-3605	NAVVARRO •NCC-3612	
CARRIS •NCC-3614	ONUOHA •NCC-3624	
CLAYTOR •NCC-3638***	OPRINSKI •NCC-3642***	
COMANCHE •NCC-3600*	PARKINSON •NCC-3632***	
CRUSHERT •NCC-3602	PENDULEM •NCC-3608**	
DARBY •NCC-3629	PENZER •NCC-3639***	
DE LEON •NCC-3651***	RAINES •NCC-3603	
DRAKE •NCC-3644***	REED •NCC-3645***	
ELKINS •NCC-3627	RICROFT •NCC-3641***	
EVANOFF •NCC-3637***	SEMINOLE •NCC-3648***	
FEDANCE •NCC-3607	SHAWNEE •NCC-3615	
FLANNERY •NCC-3631***	STANTHORPE •NCC-3633***	
GAITHER •NCC-3626	STEWERT •NCC-3622	
HALBURG •NCC-3650***	SYKES •NCC-3611	
HARDIN •NCC-3613	TANNORARO •NCC-3623	
HELTON •NCC-3643***	TERRELL •NCC-3621	
HEMER •NCC-3635***	VAN ZANDT •NCC-3618	
HOOK •NCC-3625	WALKER •NCC-3646***	
HOUSER •NCC-3617	WINNEGER •NCC-3610	

*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

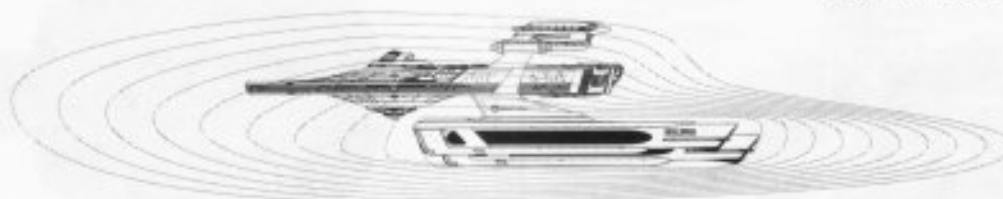
Primary Tractor Beam Load Calculator



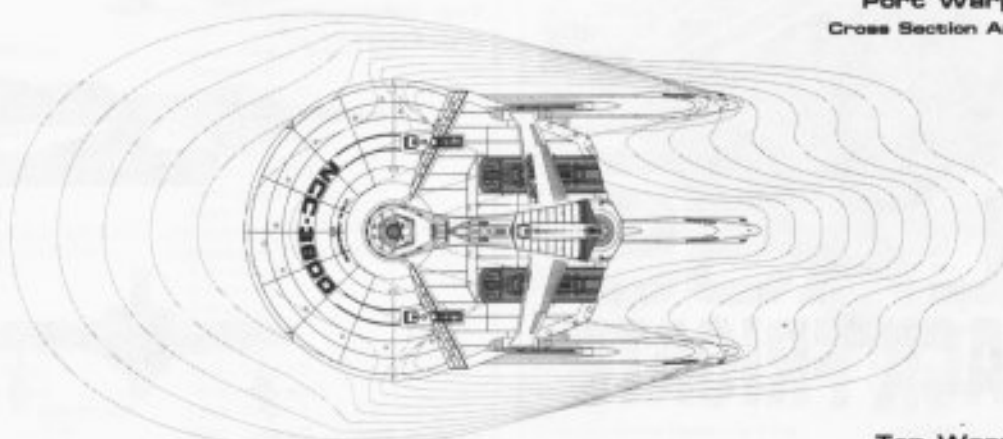
Field Length 476.25m
Field Width 208.68m
Field Height 92.38m



Front Warp Field Profile
Cross Section Area 15723.53 m²



Port Warp Field Profile
Cross Section Area 30734.41 m²



Top Warp Field Profile
Cross Section Area 74950.48 m²

COMANCHE CLASS

FEDERATION VESSEL

ATTACK FRIGATE



General Information

Specific Role: The Attack Frigate is designed for surgical attacks while supporting troop placement in conflicted areas. The Attack Frigate, is designed to increase the effectiveness of the of the Heavy Frigate through the use of Turreted Multi-Phasic Mega Phasers. While Multi-Phasic MegaPhasers are not as powerful as Megaphasers there ability to Phase Shift the spectrum during the pulse allows the beam to be adjusted for maximum penetration.

Physical Description: The Attack Frigate incorporates an (PHE147/F-A1) extended primary hull with a weapons platform extension to the rear and a (BS12/F-T7) bridge which contains a larger weapons station and tracking station. The vessel is also equipped with extensive shielding and experimental ECM/ECCM gear. Mounted on the underside of the primary hull is the integrated (SM49/3K) main sensor array and (DNT4/3-V) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/G-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/3-TD) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on either side of the weapons platform extension, at the rear of the primary hull. The vessels' warp fields are generated by two (SW52/2-5DF) warp nacelles attached to the primary hull by (DU/25-6A) support pylons. Within the primary hull are the (M36/4-2Z) intermix chamber and (AM8/36-4L) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. The Frigate is armed with four (MPPT2/15-2C) Multi-Phasic MegaPhasers. The upper turret is connected by a (DU/75-70T) support pylon and the lower is connected by the (DU/90-90T) support pylon. The port and starboard turrets are connected by (DU/22-19T) support pylons. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

For additional detail refer to Datasheet MV-24

Class Emblem



Ship Silhouettes

Total Target Area 34987.23 m²
Average Target Area 1162.41 m²



Top Silhouette
Area 23807.77 m²



Port Silhouette
Area 7991.94 m²

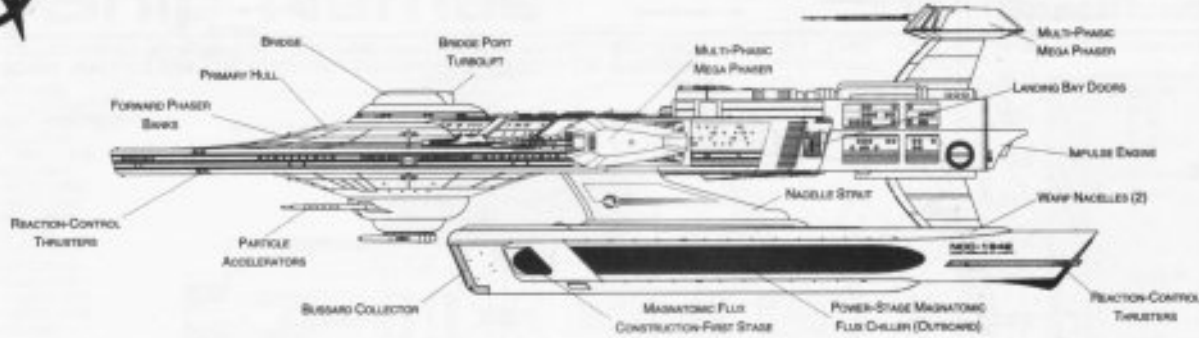


Front Silhouette
Area 3187.52 m²

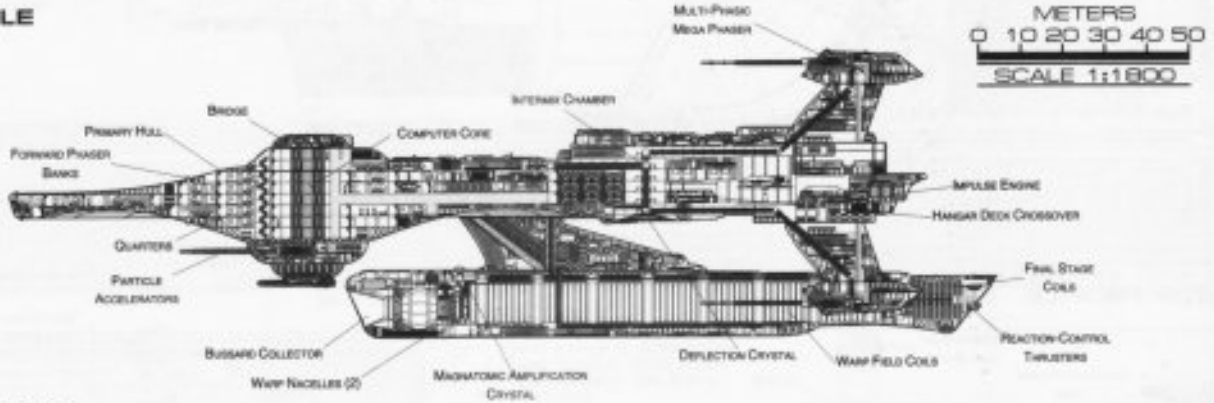


ATTACK FRIGATE

SOYUZ CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Attack Frigate
Category: Frigate
Class: Soyuz
Type: Class I
Model: MK-IIa
Naval Construction Contract: 1942
Number Proposed: 20
Number Constructed: 20
Number in Service: 20
Number Lost: 1

Dimensions:

Overall Dimensions (Meters)
 Length: 234.74 m
 Width: 163.05 m
 Height: 68.74 m
Primary Hull Dimensions (Meters)
 Length: 217.94 m
 Width: 141.7 m
 Height: 36.12 m

Secondary Hull Dimensions (Meters)

Length: N/A
 Width: N/A
 Height: N/A

Warp Unit Dimensions (Meters)

Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m

Displacement (Metric Tons)

Light: 196265 mt
 Standard: 212418 mt
 Full Load: 237127 mt

Performance:

Impulse Units: Dual Unit (IP186E3-TD)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 0.93
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.215 sec.
 0.25-0.50 Impulse: 0.323 sec.
 0.50-0.75 Impulse: 0.43 sec.
 0.75-Full Impulse: 0.538 sec.
Warp Units: 2 Nacelle Units (SWS21-SDF)
Warp Engine Output: 1.2×10^{15} W
Warp Power Index: 0.93

Optimum Speed: 4
Max. Safe Cruising: 6.18
Emergency Speed: 8.35
Max. Speed: 9.15
Destructive Speed: 9.28
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.215 sec.
 Warp 2 - Warp 3: 0.344 sec.
 Warp 3 - Warp 4: 1.301 sec.
 Warp 4 - Warp 5: 1.871 sec.
 Warp 5 - Warp 6: 2 sec.
 Warp 6 - Warp 7: 2.161 sec.
 Warp 7 - Warp 8: 2.774 sec.
 Warp 8 - Warp 9: 3.968 sec.
 Warp 9 - Warp 9.5: 8.817 sec.
 Warp 9.5 - Warp 9.75: 10.215 sec.
 Warp 9.75 - Warp 9.9: 21.183 sec.

Duration (Years)

Standard: 4 Years
Maximum: 16 Years
Std. Ships Complement: 429
Officers: 64
Crew (Ensign Grade): 315
Troops: 50
Passengers: 35
Emergency condition: + 526

Medical Facilities:

Doctors: 4
Medical Staff: 9
Operating Rooms: 3
Beds: 21

Laboratories: 6

Transporters Total: 11

1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 4
Small Cargo: 2
Medium Cargo: 2
Large Cargo: 0
Super Cargo: 0

Beige: 24
Replicators: 16
Tractor Beams: 1
Tow Capacity: 2.87×10^6 mt
Max Range: 9.2×10^4 km

Cargo Specification:

Standard Cargo Units: 410
Cargo Capacity: 20500 mt

Shuttlecraft Specifications:

Docking Ports: 5

Shuttlecraft Bays Total: 2

Small Bay: 0

Medium Bay: 2

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 70

Work Bees: 3

Travel Pods: 5

Aquatic Shuttle: 2

Light Shuttle: 2

Standard Shuttle: 2

Heavy Shuttle: 2

Cargo Shuttle: 2

Assault Shuttle: 18

Killer Bees: 7

Light Fighter: 10

Fighter: 10

Heavy Fighter: 7

Lifeboats: 47

Turbolift (8 person): 27

Lifeboat (10 person): 14

Lifeboat (20 person): 6

Lifeboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.93

Stellar Survey: 0.77

Short Range: 1.24

Long Range: 1.02

Navigation: 1.24

Special: 1.26

Computers: 2

Type: Daystrom Duotronic 1-IIIq

Type: Daystrom Duotronic 1-IIb

ECM Index: 1.21
Shield Rating:
Shield Index: 0.53
Holdoff Power: 1.86×10^{12} W
Refresh Rate: 5.29×10^{11} W
Breakdown Rate: 6.35×10^{11} W
Shield Dimensions (Meters)
 Length: 352.1 m
 Width: 244.6 m
 Height: 103.1 m

Weapons:

Phaser Power Index: 0.62

Photon Power Index: 3.72

Vessel Power Index: 2.17

Weapon Placement:

Beam (Phasers) Total: 6 banks 2 each

Output: 5×10^{11} W 2.5×10^{11} W

Range: 2.5×10^6 km

Rate of Fire: 30 ppm/Cont.

Forward Banks: 2

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (MP MegaPhasers) Total: 0

Output: 2.0×10^{12} W 1.0×10^{12} W

Range: 8.0×10^6 km

Rate of Fire: 15 ppm/Cont.

Forward/Rear Banks: 1

Port/Starboard Banks: 2

Upper/Lower Banks: 1

Torpedoes (Photon) Total: 0

Stock: 0

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

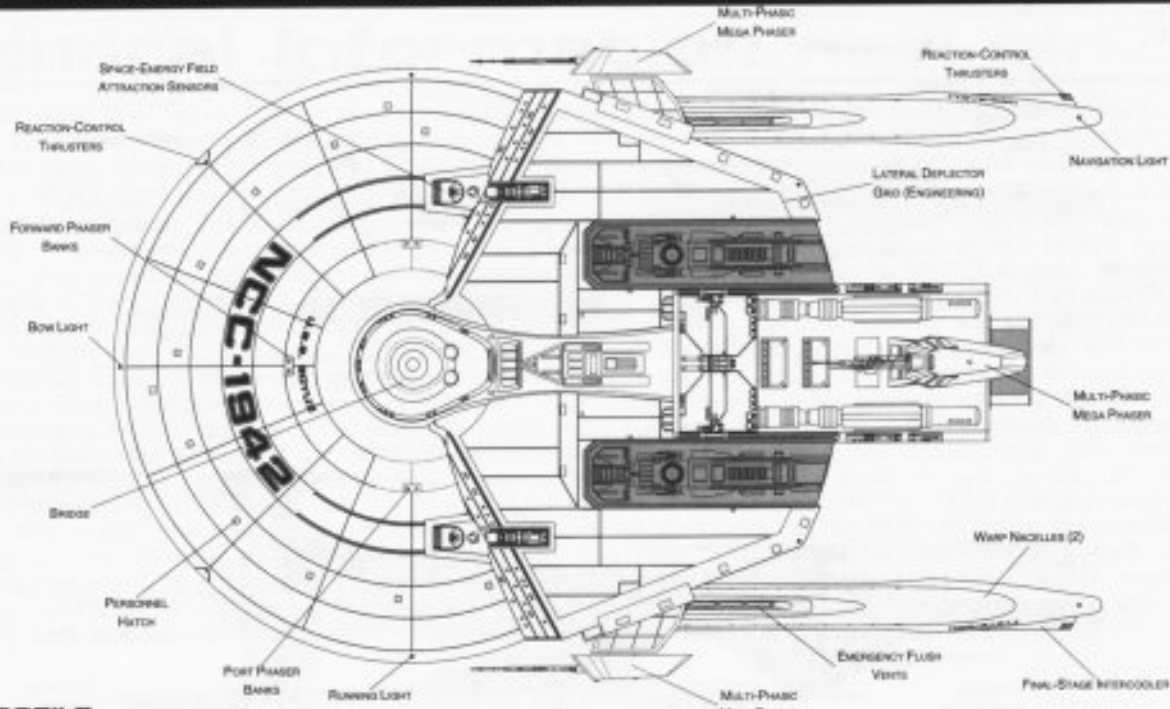
Lower Bay: 0

FEDERATION VESSEL

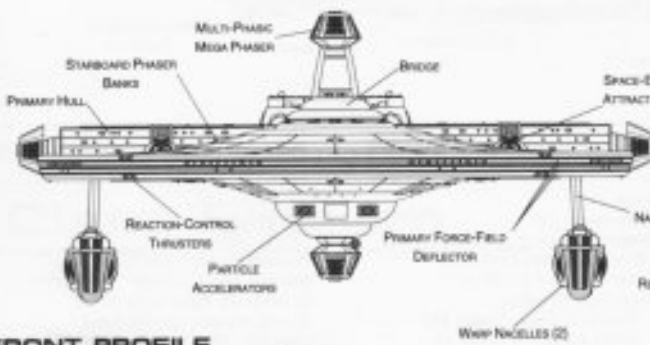
ATTACK FRIGATE



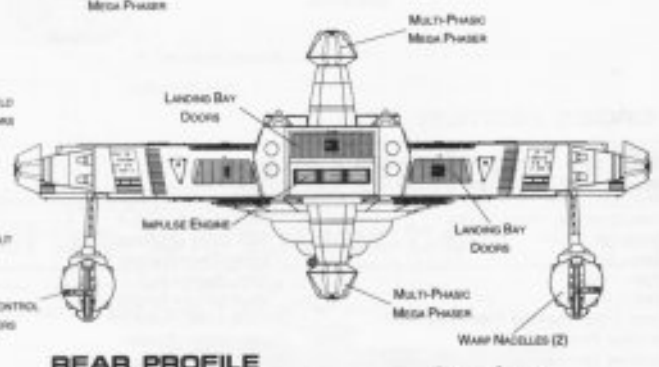
SOYUZ CLASS



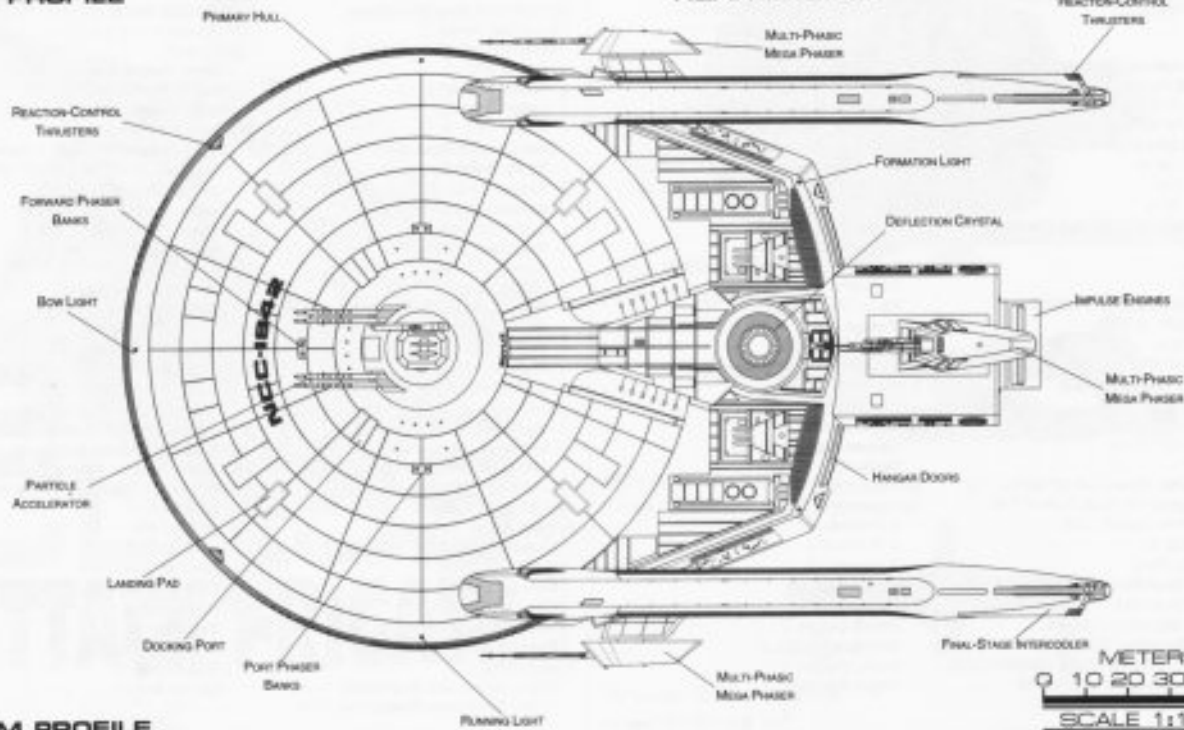
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800

FEDERATION VESSEL



ATTACK FRIGATE

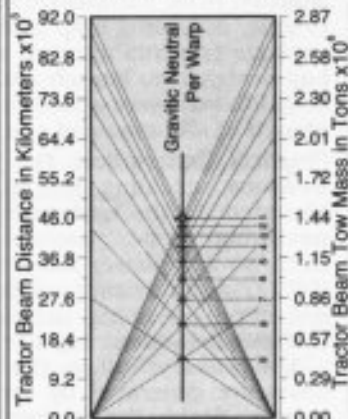
Ship Names

THE FOLLOWING SHIPS OF THE MK-IIa CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2267.1

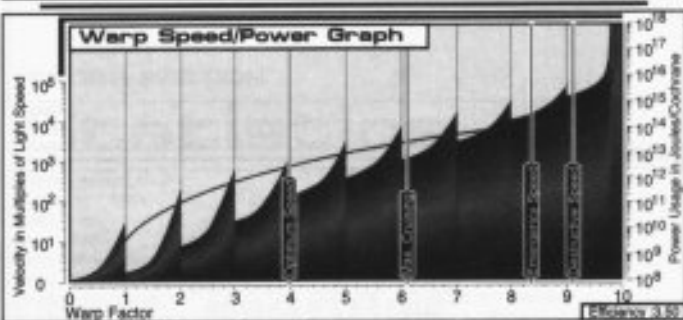
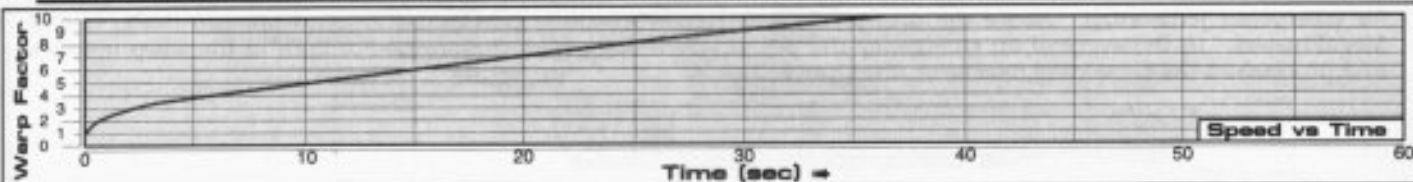
- ACREE • NCC-1950
- BOZEMAN • NCC-1941**
- CAVANNAUGH • NCC-1958
- CHINEA • NCC-1952
- DAVIDSON • NCC-1945
- ESTELL • NCC-1944
- FOELLER • NCC-1959
- GRILLIOT • NCC-1961
- HELENA • NCC-1956
- IMARI • NCC-1947
- KATSIMIS • NCC-1965
- MOXEY • NCC-1953
- NOEVER • NCC-1949
- PANDORA • NCC-1957
- REFEUNA • NCC-1948
- SLOAN • NCC-1951
- SONNIER • NCC-1960
- SOYUZ • NCC-1942*
- TAHERI • NCC-1946
- TALBOT • NCC-1954
- URSALINE • NCC-1943

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



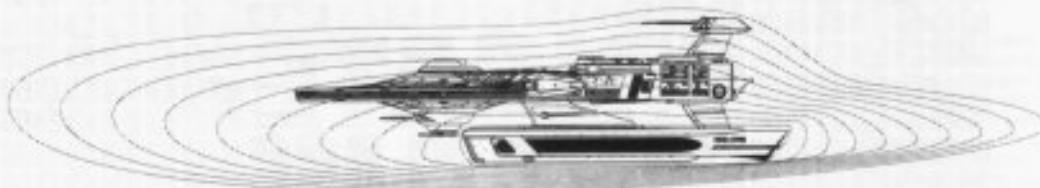
*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."



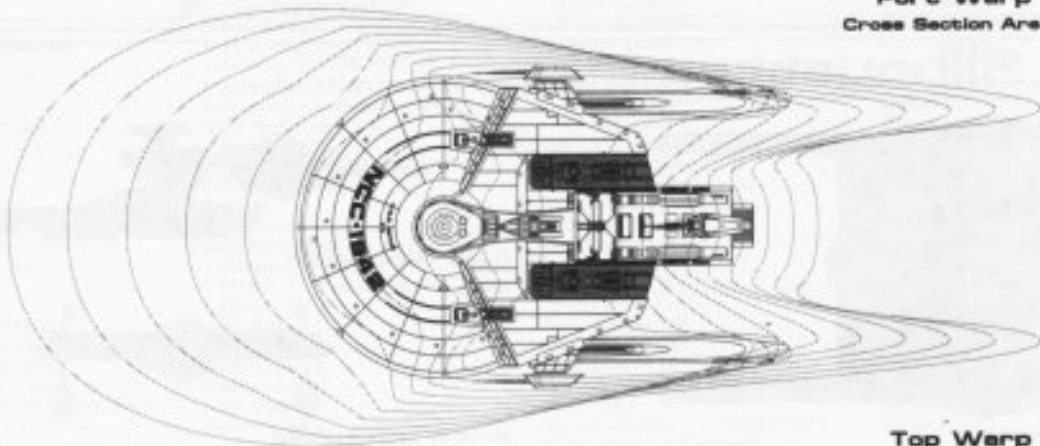
Field Length 490.54m
 Field Width 202.20m
 Field Height 88.33m



Front Warp Field Profile
 Cross Section Area 13831.08 m²



Port Warp Field Profile
 Cross Section Area 30042.52 m²



Top Warp Field Profile
 Cross Section Area 69410.49 m²

FRIGATE



General Information

Specific Role: Exhaustive research of Federation involvement in peace-keeping duties led to the development of the Frigate, a fighting ship primarily used to transport fighter-craft and troops into battle. The Frigate's small, stout package presents minimal silhouette target area to enemy vessels. The Frigate is equipped with a medium hangar bay designed to launch and maintain a single wing of fighter craft. To increase the firepower of the Frigate, two MegaPhasers were added to the primary hull and are powered directly off the intermix chamber. Troops are carried aboard at all times and can use either assault shuttles or transporters to reach specific planetary engagements.

Physical Description: The Frigate incorporates an (PHE147/F-M2) extended primary hull equipped with heavy weapons, shielding, and ECM devices; as well as a (BS9/F-T2) bridge which contains a larger weapons station. Mounted on the underside of the primary hull is the integrated (SM49/5J) main sensor array and (DN4/2-G) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/T-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-IR) dual impulse units which are used for auxiliary power and sub-light propulsion. Located to the rear of the primary hull on the starboard side of the impulse engines, is a medium hangar deck. The vessels's warp fields are generated by two (SW52/1-5RL) warp nacelles attached to the primary hull by (DU/25-6G) support pylons. Within the primary hull are the (M28/4-2Y) intermix chamber and (AM8/36-4S) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Above the primary hull extension mounted port and starboard are two (MP2/15-2G) MegaPhasers. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

For additional detail refer to Datasheet MV-23

Class Emblem



Ship Silhouettes

Total Target Area 27228.02 m²
Average Target Area 9076.01 m²



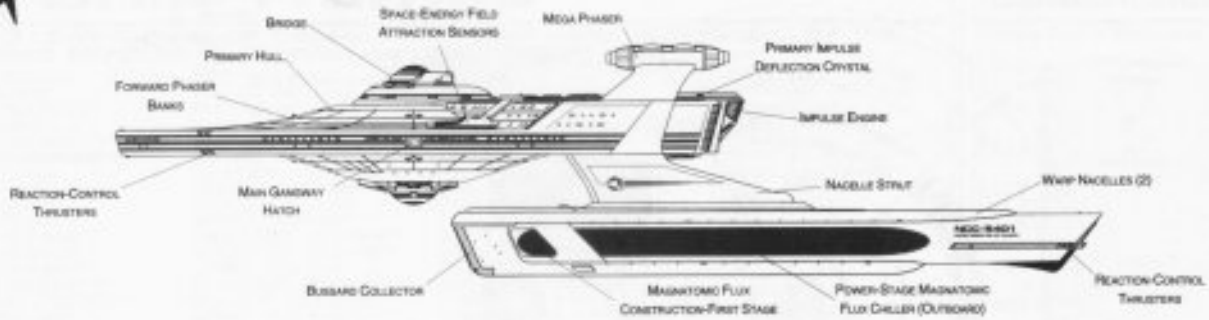
Top Silhouette
Area 19424.05 m²



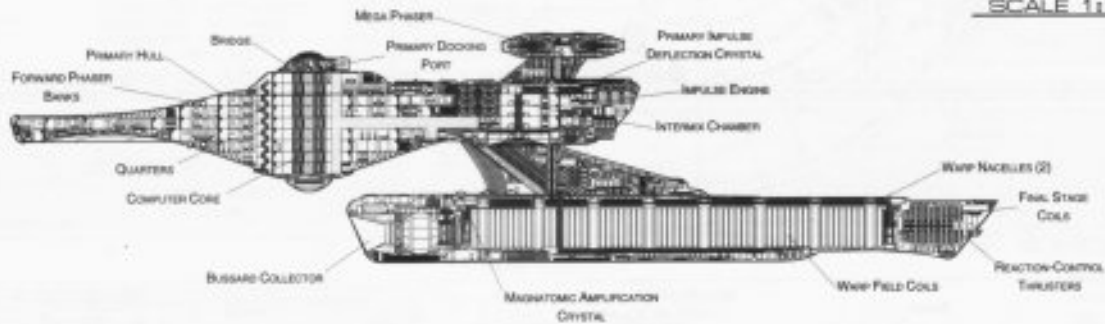
Port Silhouette
Area 5129.10 m²



Front Silhouette
Area 2674.87 m²



PORT PROFILE



CROSS SECTION

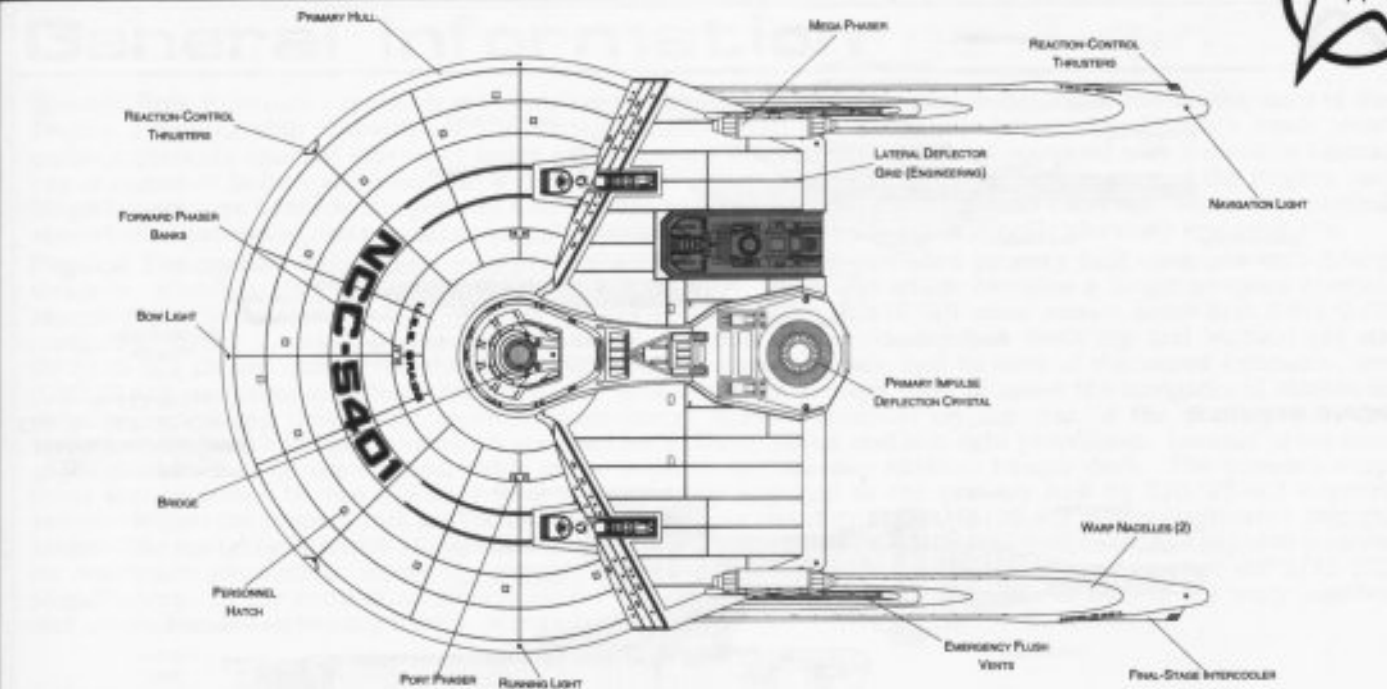
Statistics

<p>Classification: Frigate Category: Frigate Class: Bragg Type: Class1 Model: MK-XLJ1a Naval Construction Contract: 1900 Number Proposed: 84 Number Constructed: 49 Number in Service: 48 Number Lost: 1</p> <p>Dimensions: Overall Dimensions (Meters) Length: 234.74 m Width: 141.72 m Height: 54.89 m Primary Hull Dimensions (Meters) Length: 149.42 m Width: 141.72 m Height: 32.9 m Secondary Hull Dimensions (Meters) Length: N/A Width: N/A Height: N/A Warp Unit Dimensions (Meters) Length: 154.81 m Width: 12.63 m Height: 18.32 m Displacement (Metric Tons) Light: 187932 mt Standard: 201347 mt Full Load: 224798 mt</p> <p>Performance: Impulse Units: Dual Unit (IP166E/S-IF) Impulse Engine Output: 7.6x1013 W Impulse Power Index: 0.98 Max Cruising: C Acceleration Rate: 0.00-0.25 Impulse: 0.204 sec. 0.25-0.50 Impulse: 0.306 sec. 0.50-0.75 Impulse: 0.408 sec. 0.75-Full Impulse: 0.51 sec. Warp Units: 2 Nacelle Units (BWS2Y1-SRL) Warp Engine Output: 1.2x1015 W Warp Power Index: 0.98</p>	<p>Optimum Speed: 4 Max. Safe Cruising: 6.1 Emergency Speed: 8.2 Max. Speed: 9.1 Destructive Speed: 9.2 Acceleration Power: 3 Acceleration Times: Warp 1 - Warp 2: 0.204 sec. Warp 2 - Warp 3: 0.326 sec. Warp 3 - Warp 4: 1.233 sec. Warp 4 - Warp 5: 1.774 sec. Warp 5 - Warp 6: 1.896 sec. Warp 6 - Warp 7: 2.049 sec. Warp 7 - Warp 8: 2.63 sec. Warp 8 - Warp 9: 3.751 sec. Warp 9 - Warp 9.5: 8.358 sec. Warp 9.5 - Warp 9.75: 9.683 sec. Warp 9.75 - Warp 9.9: 20.079 sec.</p> <p>Duration (Years) Standard: 4 Years Maximum: 16 Years Std. Ships Complement: 396 Officers: 61 Crew (Ensign Grade): 295 Troops: 40 Passengers: 30 Emergency condition: + 491</p> <p>Medical Facilities: Doctors: 3 Medical Staff: 7 Operating Rooms: 2 Beds: 16 Laboratories: 6 Transporters Total: 10 1 Person: 0 2 Person: 0 6 Person: 4 12 Person: 0 22 Person: 4 Small Cargo: 1 Medium Cargo: 1 Large Cargo: 0 Super Cargo: 0</p>	<p>Brigs: 23 Replicators: 15 Tractor Beams: 1 Tow Capacity: 3.64x106 mt Max Range: 9.1x104 km Cargo Specification: Standard Cargo Units: 291 Cargo Capacity: 14550 mt Shuttlecraft Specifications: Docking Ports: 5 Shuttlecraft Bays Total: 1 Small Bay: 0 Medium Bay: 1 Large Bay: 0 Super Bay: 0 Shuttlecraft Standard: 37 Work Bees: 2 Travel Pods: 2 Aquatic Shuttle: 1 Light Shuttle: 1 Standard Shuttle: 1 Heavy Shuttle: 1 Cargo Shuttle: 1 Assault Shuttle: 10 Killer Bees: 4 Light Fighter: 5 Fighter: 5 Heavy Fighter: 4 Lifeboats: 43 Turbolift (8 person): 25 Lifeboat (10 person): 13 Lifeboat (20 person): 5 Lifeboat (30 person): 0</p> <p>Cloaking Devices: 0 Sensor Index Values: Planetary Survey: 0.93 Stellar Survey: 0.77 Short Range: 1.24 Long Range: 1.02 Navigation: 1.24 Special: 1.26 Computers: 2 Type: Daystrom Duetronic 1-IIe Type: Daystrom Duetronic 1-IIj</p>	<p>ECM Index: 1.21 Shield Rating: Shield Index: 0.59 Holdoff Power: 1.95x1012 W Refresh Rate: 5.58x1011 W Breakdown Rate: 6.7x1011 W Shield Dimensions (Meters) Length: 352.1 m Width: 212.6 m Height: 82.3 m</p> <p>Weapons: Phaser Power Index: 1.22 Photon Power Index: 0.00 Vessel Power Index: 0.61 Weapon Placement: Beam (Phasers) Total: 6 banks 2 each Output: 5x1011 W 2.5x1011 W Range: 2.5x105 km Rate of Fire: 30 ppm/Cont. Forward Banks: 2 Rear Banks: 0 Port Banks: 2 Starboard Banks: 2 Upper Banks: 0 Lower Banks: 0 Beam (MegaPhasers) Total: 2 Output: 2.6x1012 W 1.3x1012 W Range: 1x106 km Rate of Fire: 15 ppm Forward/Rear Banks: 2 Port/Starboard Banks: 0 Upper/Lower Banks: 0 Torpedoes (Photon) Total: N/A Stock: N/A Range: N/A Output: N/A Rate of Fire: N/A Forward Bay: 0 Rear Bay: 0 Port Bay: 0 Starboard Bay: 0 Upper Bay: 0 Lower Bay: 0</p>
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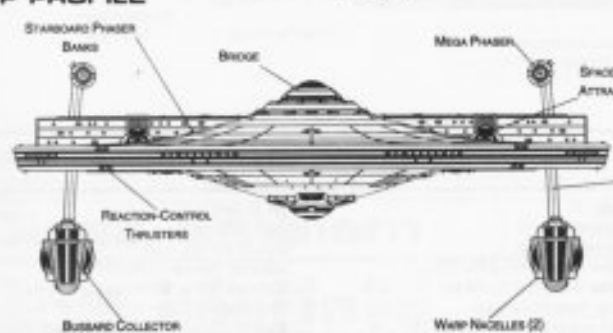
FRIGATE



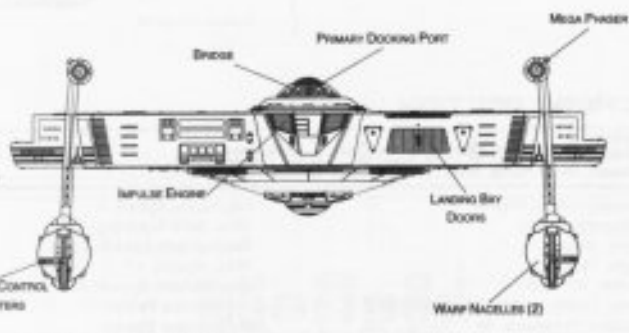
BRAGG CLASS



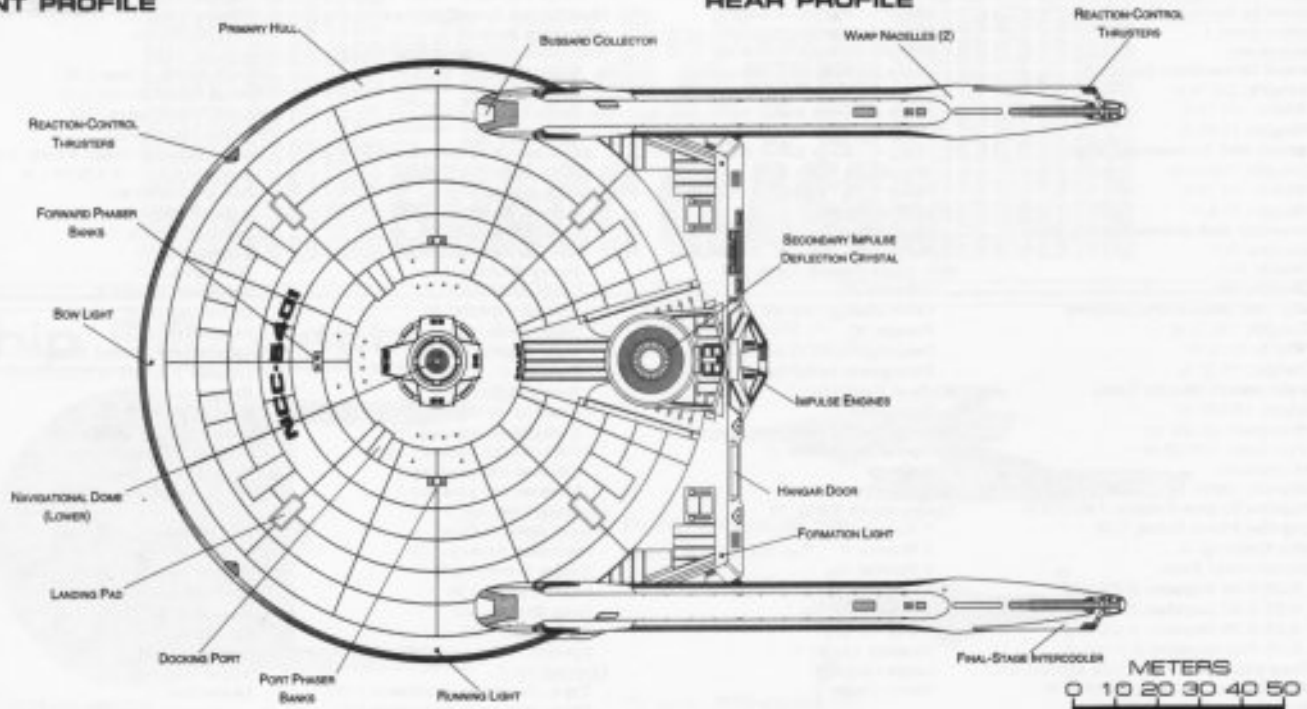
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE



FEDERATION VESSEL



Ship Names

FRIGATE

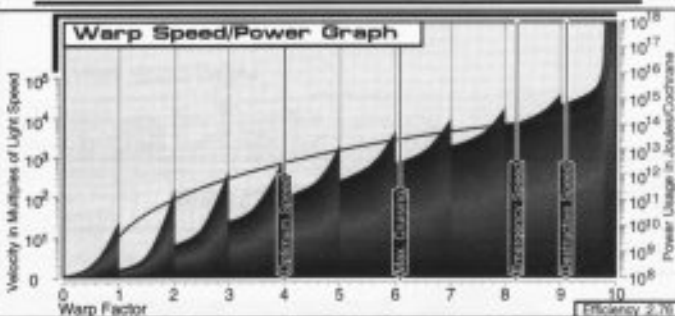
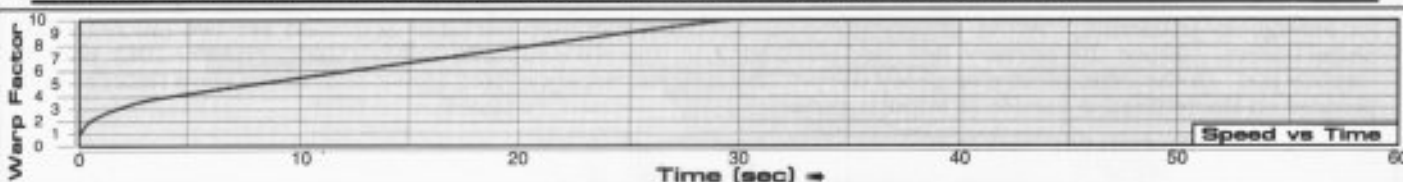
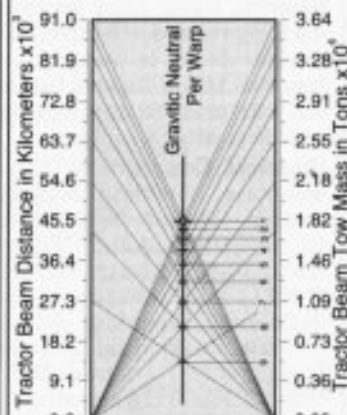
BRAGG CLASS

THE FOLLOWING SHIPS OF THE MK-XLIIa CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2267.8

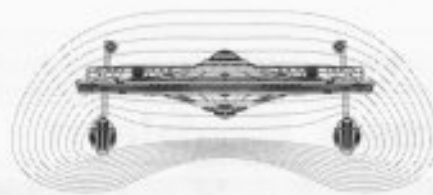
AGATON · NCC-5433	ERIE · NCC-5475***	ORD · NCC-5448	SUOMENLINNA · NCC-5447
AGRA · NCC-5439	FAN LAU · NCC-5429	OSWEGO · NCC-5465***	SVARTHOLMA · NCC-5431
AMHERST · NCC-5432	FESTUNG · NCC-5435	OUIATENON · NCC-5472***	TAKU · NCC-5420
ARAD · NCC-5411	GARRY · NCC-5413	PEPPERRELL · NCC-5477***	TILBURY · NCC-5418
BABRUYSK · NCC-5473***	GASPEREAU · NCC-5412	PHLSHT · NCC-5438	TOWNSEND · NCC-5466***
BATTLEFORD · NCC-5470***	GEORGE · NCC-5415	PRESIDIO · NCC-5405	TREGANTLE · NCC-5457***
BELAN · NCC-5426	GOLKONDA · NCC-5423	QAL'AT AL-BAHRAIN · NCC-5421	TRUMBULL · NCC-5467***
BENGHISA · NCC-5419**	GRANGE · NCC-5464***	RAIGAD · NCC-5458***	TURKU · NCC-5408
BOKAR · NCC-5425	HALIFAX · NCC-5422	RANKOT · NCC-5455***	YEHIAM · NCC-5414
BRAGG · NCC-5401	KORELA · NCC-5427	REVELIN · NCC-5479***	
CALGARY · NCC-5468***	KRONSTADT · NCC-5454***	RIFFA · NCC-5416	
CANNING · NCC-5428	LANGSTONE · NCC-5481***	RINELLA · NCC-5461***	
CAPUZZO · NCC-5476***	LIERRE · NCC-5409	ROTTERDAM · NCC-5440	
CARLSTEN · NCC-5451***	LOVRIENAC · NCC-5402	SAALBURG · NCC-5474***	
CUMBERLAND · NCC-5482***	MCHENRY · NCC-5459***	SAINTE ANNE · NCC-5434	
DARNET · NCC-5442	MCNAB · NCC-5456***	SAN CRISTOBAL · NCC-5463***	
DAULATABAD · NCC-5445	MACON · NCC-5453***	SAN FELIPE · NCC-5424	
DAUPHIN · NCC-5417	MALDEN · NCC-5444	SASKATCHEWAN · NCC-5400	
DE JOUX · NCC-5478***	MATANZAS · NCC-5441	SHOREHAM · NCC-5471***	
DELIMARA · NCC-5404	MEIGS · NCC-5480***	SIGNAL HILL · NCC-5406	
DETROIT · NCC-5407	MONCKTON · NCC-5462***	SILOSO · NCC-5463***	
DIX · NCC-5403	MONMOUTH · NCC-5452***	SNELLING · NCC-5410	
DUQUESNE · NCC-5469***	NASHWAAK · NCC-5443	STABROECK · NCC-5480***	
EDWARD · NCC-5450***	NEWHAVEN · NCC-5446	STEELE · NCC-5449***	
ELSON · NCC-5430	NIAGARA · NCC-5437	STEUBEN · NCC-5436	

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



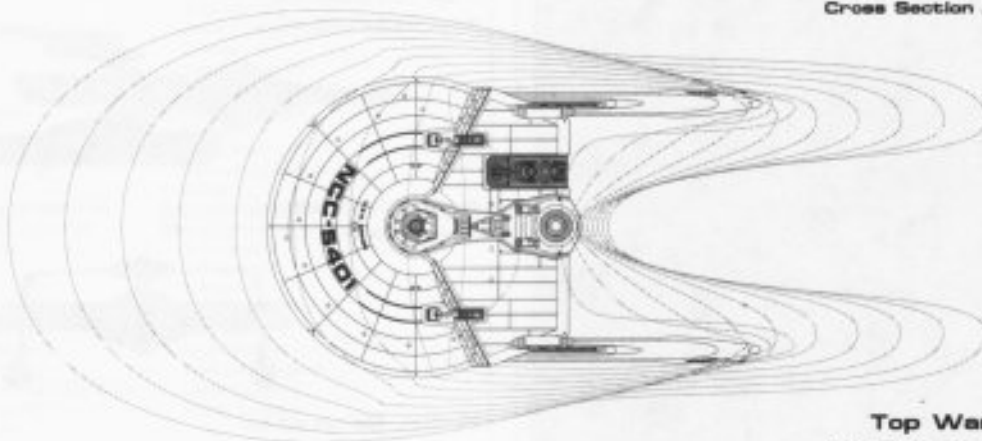
Field Length 464.82m
 Field Width 202.36m
 Field Height 85.76m



Front Warp Field Profile
 Cross Section Area 13820.46 m²



Port Warp Field Profile
 Cross Section Area 26392.84 m²



Top Warp Field Profile
 Cross Section Area 66267.22 m²

FEDERATION VESSEL

HEAVY FRIGATE

General Information



Specific Role: After much success with the standard Frigate design, Starfleet decided to create a heavier version with increased effectiveness. The Heavy Frigate has a stretched, extended primary hull to make space for dual hangar decks to support and maintain two wings of fighter craft. As with the standard Frigate, the Heavy Frigate has two MegaPhasers located above the engines. The most noticeable modification of the design is the addition of a roll bar used to support the photon torpedo weapons pod. The photon torpedo pod gives the vessel both forward and rear attack angles.

Physical Description: The Frigate incorporates an (PHE147/F-M1) extended primary hull equipped with heavy weapons, shielding, and ECM/ECCM devices; as well as a (BS10/F-T1) bridge which contains a larger weapons station. Mounted on the underside of the primary hull is the integrated (SM49/6J) main sensor array and (DN4/1-G) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/J-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-IR) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on either side of the impulse engines, in the rear of the primary hull. The vessels' warp fields are generated by two (SW52/1-5RO) warp nacelles attached to the primary hull by (DU/25-6F) support pylons. Within the primary hull is the (M30/4-2Z) intermix chamber and (AM8/36-4T) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Above the primary hull extension mounted port and starboard are two (MP2/15-2G) MegaPhasers. Above the primary hull and supported by the (DU/52-12W) roll bar is a (PB4/50-10E) photon torpedo pod. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

For additional detail refer to Datasheet MV-19

Class Emblem



Ship Silhouettes

Total Target Area 33439.32 m²
Average Target Area 11146.44 m²



Top Silhouette
Area 21944.55 m²



Port Silhouette
Area 8008345 m²

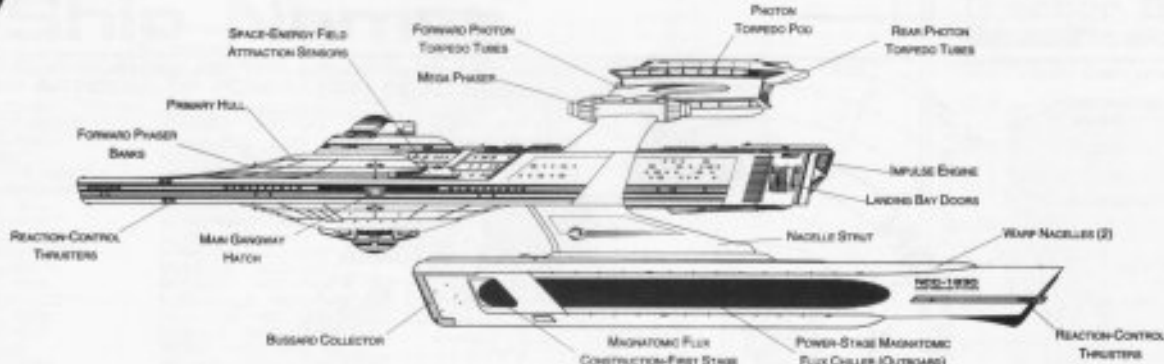


Front Silhouette
Area 5486.32 m²

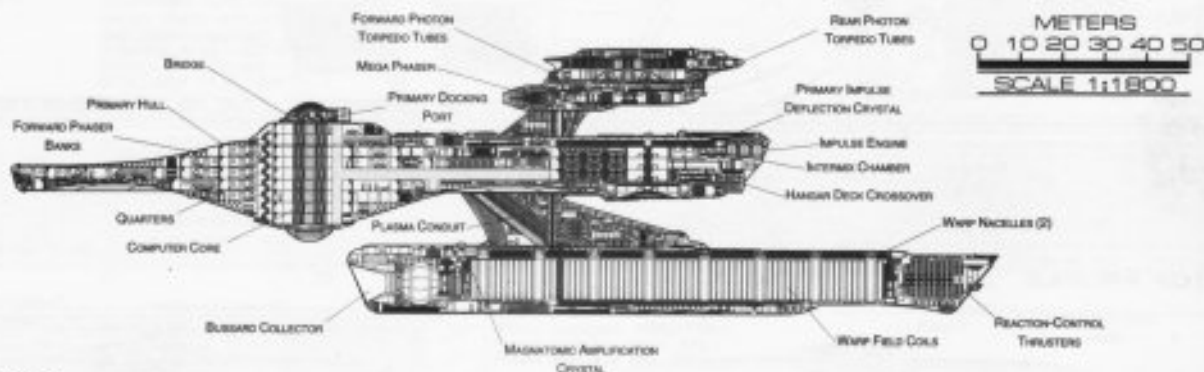


HEAVY FRIGATE

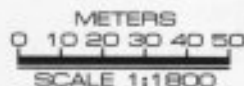
MIRANDA CLASS



PORT PROFILE



CROSS SECTION



Statistics

Classification: Heavy Frigate
Category: Frigate
Class: Miranda
Type: Class 1
Model: MK-XIVa
Naval Construction Contract: 1830
Number Proposed: 60
Number Constructed: 29
Number in Service: 29
Number Lost: 0

Dimensions:
Overall Dimensions (Meters)
 Length: 234.74 m
 Width: 141.72 m
 Height: 63.64 m
Primary Hull Dimensions (Meters)
 Length: 180.04 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m

Displacement (Metric Tons)
 Light: 231678 mt
 Standard: 248217 mt
 Full Load: 277089 mt

Performance:
Impulse Units: Dual Unit (IP186E5-IR)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 0.80
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.251 sec.
 0.25-0.50 Impulse: 0.377 sec.
 0.50-0.75 Impulse: 0.503 sec.
 0.75-Full Impulse: 0.628 sec.
Warp Units: 2 Nacelle Units (SWS2/1-SRC)
Warp Engine Output: 1.2×10^{15} W
Warp Power Index: 0.60

Optimum Speed: 4
Max. Safe Cruising: 6.2
Emergency Speed: 8.4
Max. Speed: 9.2
Destructive Speed: 9.3
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.251 sec.
 Warp 2 - Warp 3: 0.402 sec.
 Warp 3 - Warp 4: 1.52 sec.
 Warp 4 - Warp 5: 2.186 sec.
 Warp 5 - Warp 6: 2.337 sec.
 Warp 6 - Warp 7: 2.526 sec.
 Warp 7 - Warp 8: 3.242 sec.
 Warp 8 - Warp 9: 4.637 sec.
 Warp 9 - Warp 9.5: 10.303 sec.
 Warp 9.5 - Warp 9.75: 11.937 sec.
 Warp 9.75 - Warp 9.9: 24.753 sec.

Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 448
Officers: 68
Crew (Ensign Grade): 330
Troops: 50
Passengers: 35
Emergency condition: + 550

Medical Facilities:
Doctors: 4
Medical Staff: 9
Operating Rooms: 3
Beds: 21
Laboratories: 5
Transporters Total: 12

1 Person: 0
2 Person: 0
6 Person: 4
12 Person: 0
22 Person: 4
Small Cargo: 2
Medium Cargo: 2
Large Cargo: 0
Super Cargo: 0

Brigs: 28
Replicators: 19
Tractor Beams: 1
Tow Capacity: 3.01×10^6 mt
Max Range: 9.4×10^4 km
Cargo Specification:
 Standard Cargo Units: 410
 Cargo Capacity: 20500 mt
Shuttlecraft Specifications:

Docking Ports: 5
Shuttlecraft Bays Total: 2
 Small Bay: 0
 Medium Bay: 2
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 73
 Travel Pods: 5
 Aquatic Shuttle: 2
 Light Shuttle: 2
 Standard Shuttle: 2
 Heavy Shuttle: 2
 Cargo Shuttle: 2
 Assault Shuttle: 18
 Killer Bees: 8
 Light Fighter: 10
 Fighter: 10
 Heavy Fighter: 8
 Lifeboats: 51
 TurboLift (8 person): 31
 Lifeboat (10 person): 14
 Lifeboat (20 person): 6
 Lifeboat (30 person): 0

Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 1.16
 Stellar Survey: 0.96
 Short Range: 1.35
 Long Range: 1.13
 Navigation: 1.36
 Special: 1.93
Computers: 2
 Type: Daystrom Duotronic 1-IIIg
 Type: Daystrom Duotronic 1-IIIx

ECM Index: 1.21
Shield Rating:
Shield Index: 0.39
Holdoff Power: 1.59×10^{12} W
Refresh Rate: 4.53×10^{11} W
Breakdown Rate: 5.43×10^{11} W
Shield Dimensions (Meters)
 Length: 352.1 m
 Width: 212.6 m
 Height: 95.5 m

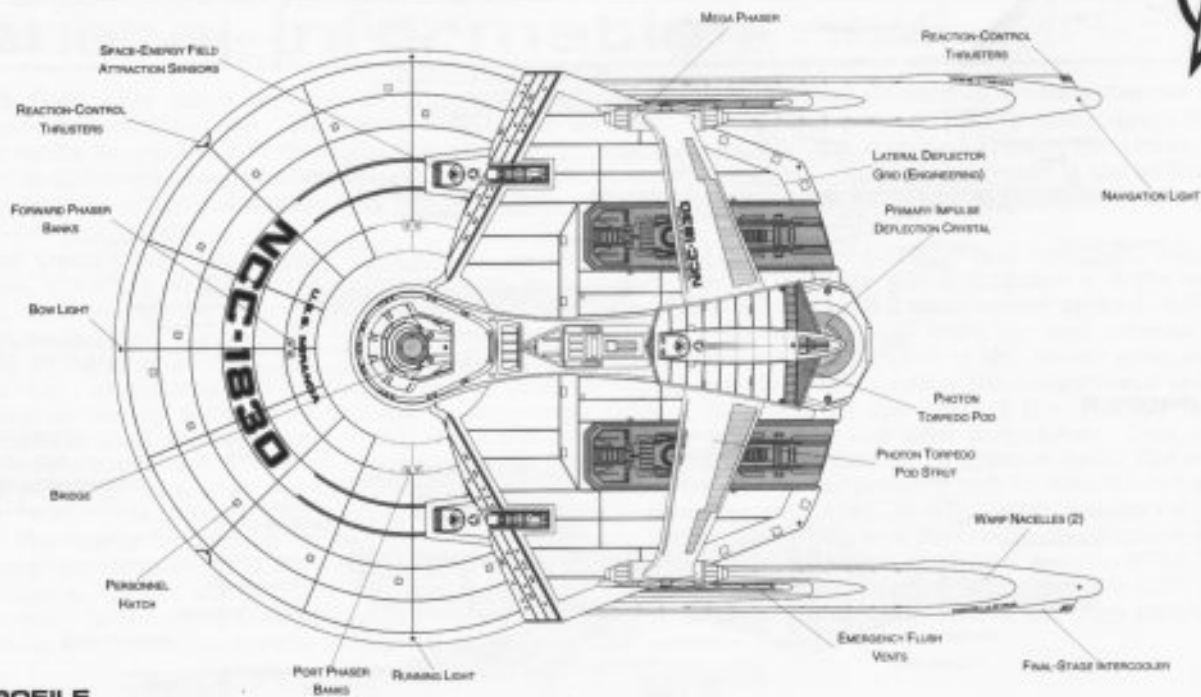
Weapons:
Phaser Power Index: 0.99
Photon Power Index: 3.18
Vessel Power Index: 2.09
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 0
Port Banks: 2
Starboard Banks: 2
Upper Banks: 0
Lower Banks: 0
Beam (MegaPhasers) Total: 2
 Output: 2.6×10^{12} W 1.3×10^{12} W
 Range: 1×10^6 km
 Rate of Fire: 15 ppm
Forward/Rear Banks: 2
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: 4 Bays
 Stock: 50
 Range: 2×10^6 km
 Output: 10-50 MT
 Rate of Fire: 10 ppm
Forward Bay: 1
Rear Bay: 1
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

FEDERATION VESSEL

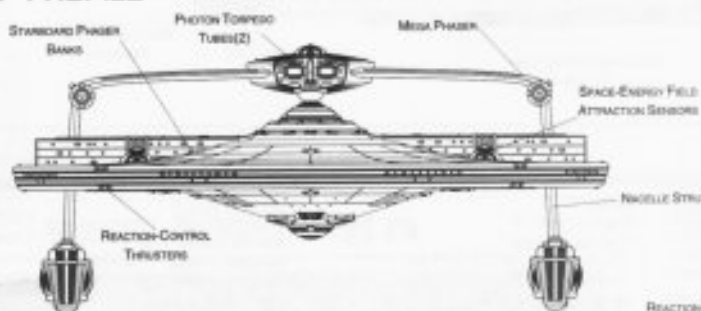
HEAVY FRIGATE



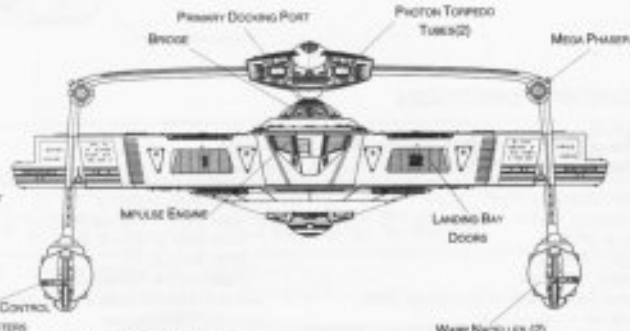
MIRANDA CLASS



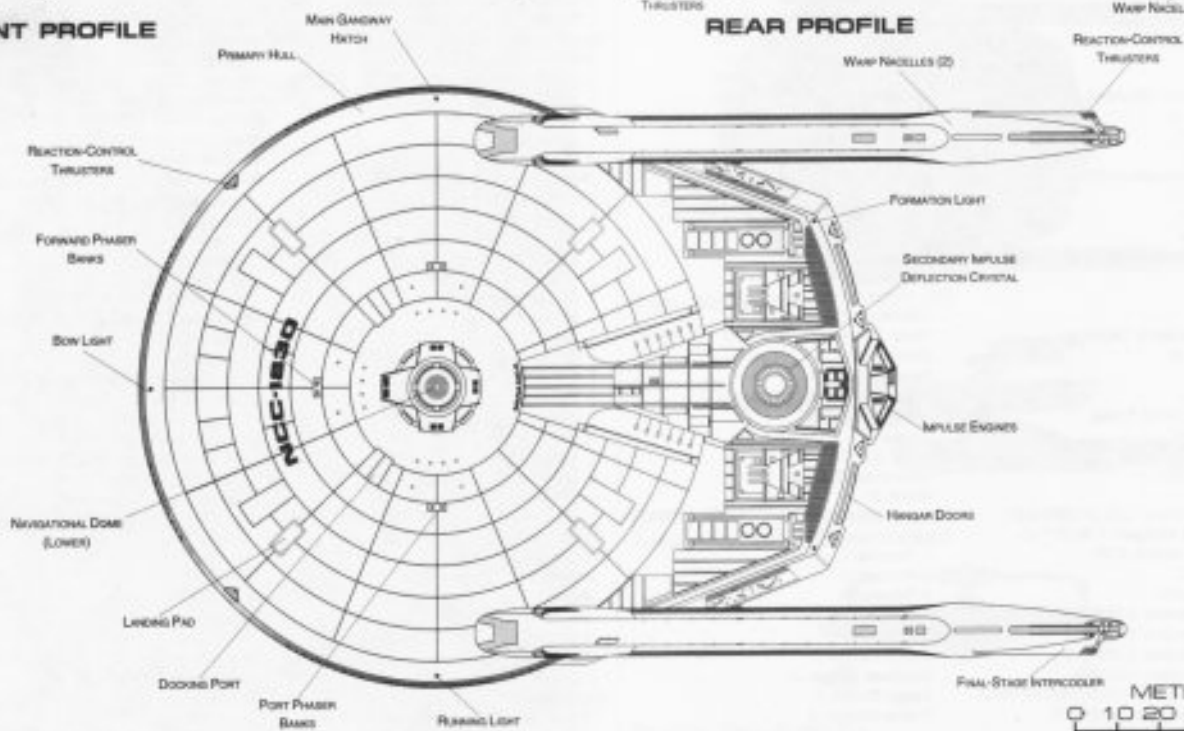
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800

FEDERATION VESSEL

HEAVY FRIGATE



Ship Names

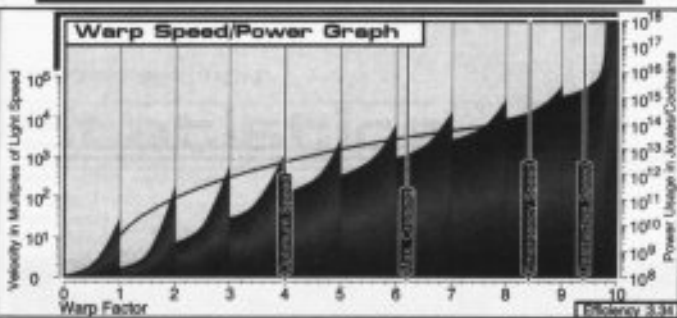
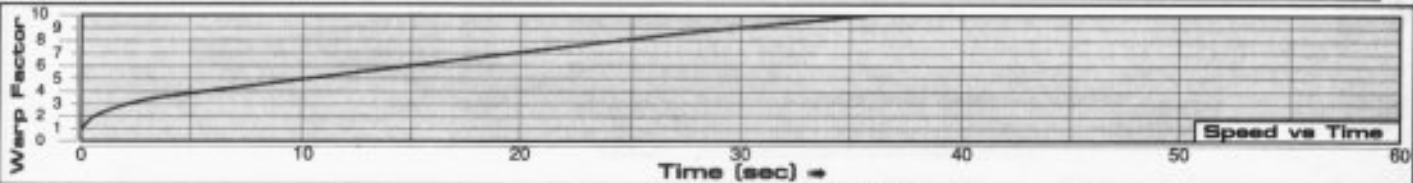
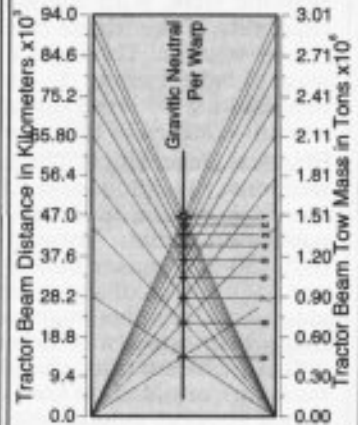
THE FOLLOWING SHIPS OF THE MK-XIV^a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.10

ARENDELE ·NCC-1851	KLINGER ·NCC-1831	SUICHICKY ·NCC-1873***
ARMANTHA ·NCC-1875****	KYNGOR ·NCC-1843	TIAN NAN MEN ·NCC-21382
AVENGER ·NCC-1860	KOWALCYK ·NCC-1886****	TONINI ·NCC-1896****
BANE ·NCC-1889****	KROMIS ·NCC-1846	TRACY ·NCC-1861****
BIANKOWSKI ·NCC-1870****	LANTREE ·NCC-1837	TRZECIAK ·NCC-1857
BRITTAIN ·NCC-21166	LEAMON ·NCC-1854	TYGART ·NCC-1842
CARMINE ·NCC-1848	MAGNOLIA ·NCC-1850	URBANOWICZ ·NCC-1871****
CARROW ·NCC-1879****	MCCAFFERTY ·NCC-1883****	WALLACE ·NCC-1855
CAVENDER ·NCC-1867****	MEHTA ·NCC-1874****	WALTON ·NCC-1844
CRUMPTON ·NCC-1863****	MIRANDA ·NCC-1830*	WYNDELL ·NCC-1840
DANNER ·NCC-1885****	MOUNDS ·NCC-1858	XIQUES ·NCC-1839
DOWLING ·NCC-1845	MUGGETT ·NCC-1833	YOTHER ·NCC-1860****
ERALLINGS ·NCC-1872****	NOEUVILLE ·NCC-1869****	ZABRISKIE ·NCC-1838
FUNSTON ·NCC-1832	PASCEDE ·NCC-1888****	ZETHER ·NCC-1852
GADLAGE ·NCC-1835	PATNAIK ·NCC-1895****	
GRICE ·NCC-1856	PETRA ·NCC-1836	
HAIRSTON ·NCC-1853	RELIANT ·NCC-1864****	
HANNOVER ·NCC-1841	REMBERT ·NCC-1859****	
HARMON ·NCC-1862****	ROMANT ·NCC-1880****	
HODGINS ·NCC-1877****	SARATOGA ·NCC-1867****	
IOVINO ·NCC-1876****	SARATOGA(II) ·NCC-31911**	
JOLLIFF ·NCC-1866****	SMTYTHE ·NCC-1847	
JUSTINIAN ·NCC-1834	SOMMERLAND ·NCC-1890****	
KANG ·NCC-1878****	SPRADLIN ·NCC-1851****	
KANTOR ·NCC-1849****	STEELMAN ·NCC-1864****	

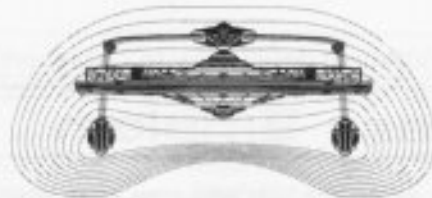
*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED, ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

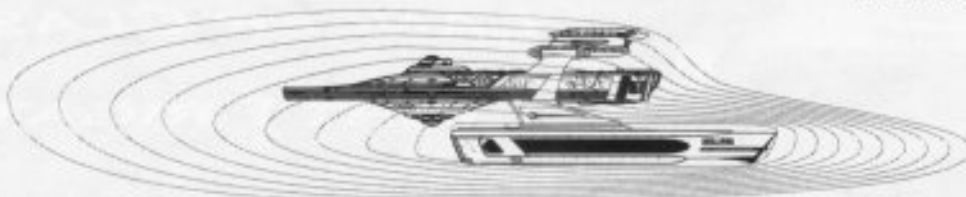
Primary Tractor Beam Load Calculator



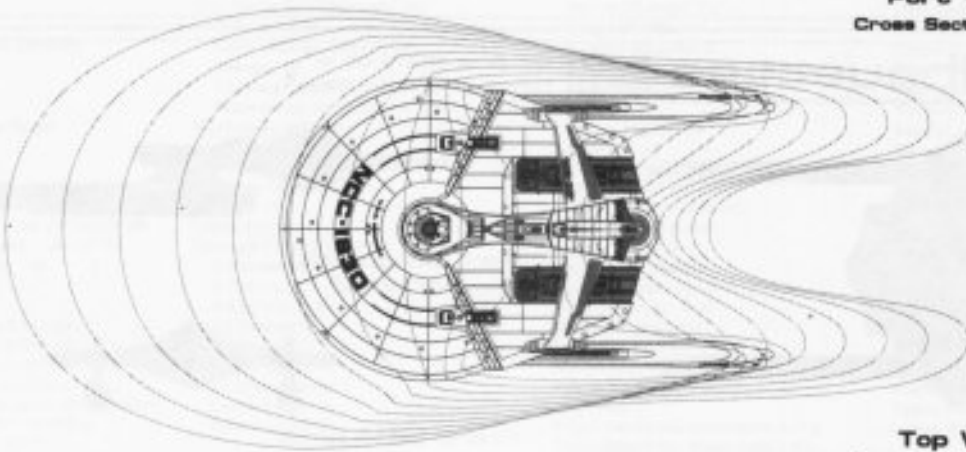
Field Length 458.15m
Field Width 201.45m
Field Height 90.08m



Front Warp Field Profile
Cross Section Area 14456.18 m²



Port Warp Field Profile
Cross Section Area 30044.41 m²



Top Warp Field Profile
Cross Section Area 69411.95 m²

MIRANDA CLASS

FEDERATION VESSEL

LIGHT FRIGATE



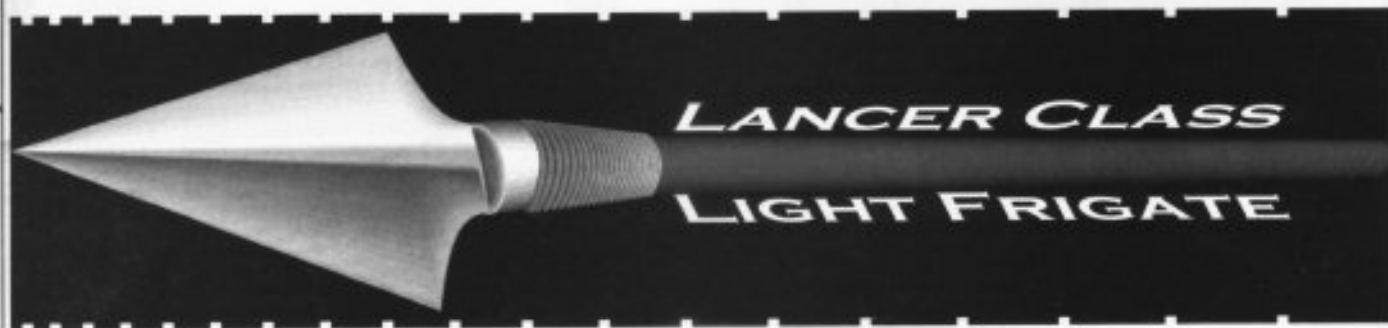
General Information

Specific Role: With the success of the Frigate it was determined that Starfleet needed a Light Frigate to expand capability of the frigate design. The Light Frigate's small, stout package presents minimal silhouette target area to enemy vessels. The Light Frigate is equipped with a medium hangar bay designed to launch and maintain a single wing of fighter craft. To increase the firepower of the Light Frigate, two Heavy Phasers were added to the primary hull and are powered directly off the intermix chamber. Troops are carried aboard at all times and can use either assault shuttles or transporters to reach specific planetary engagements.

Physical Description: The Light Frigate incorporates an (PHE145/F-F2) extended primary hull equipped with heavy weapons, shielding, and ECM devices; as well as a (BS7/F-G2) bridge which contains a larger weapons station. Mounted on the underside of the primary hull is the integrated (SM49/5D) main sensor array and (DN4/2-G) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Mounted on the rear of the primary hull are (IP186E/5-GB) dual impulse units which are used for auxiliary power and sub-light propulsion. Located to the rear of the primary hull on the starboard side of the impulse engines, is a medium hangar deck. The vessels's warp fields are generated by two (SW52/1-5AC) warp nacelles attached to the primary hull by (DU/13-6D) support pylons. Within the primary hull are the (M21/4-2D) intermix chamber and (AM7/30-4S) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Above warp nacell support pylons are two (HP1/13-2F) Heavy Phasers. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

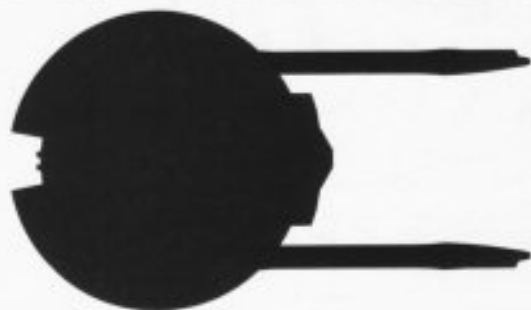
For additional detail refer to Datasheet MV-26

Class Emblem



Ship Silhouettes

Total Target Area 25273.05 m²
Average Target Area 8424.35 m²



Top Silhouette
Area 18570.53 m²



Port Silhouette
Area 4577.21 m²

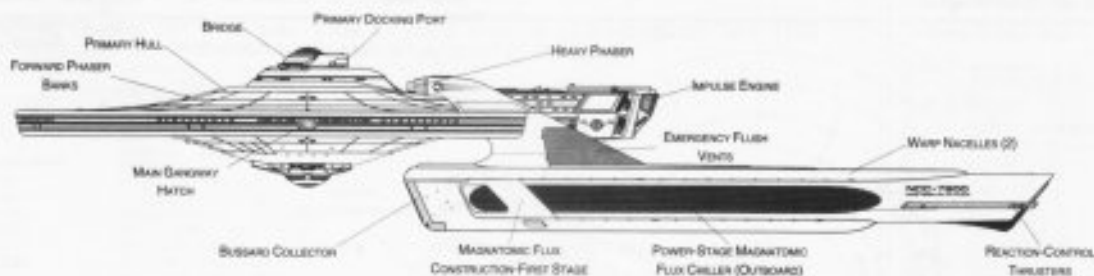


Front Silhouette
Area 2125.31 m²



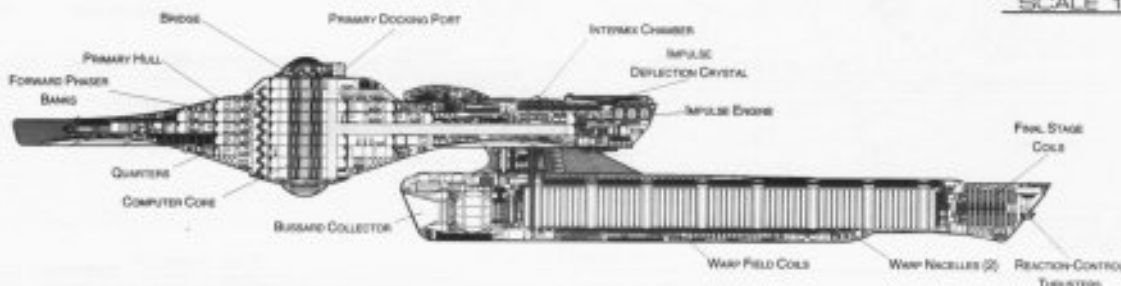
LIGHT FRIGATE

LANCER CLASS



PORT PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800



CROSS SECTION

Statistics

Classification: Light Frigate

Category: Frigate

Class: Lancer

Type: Class1

Model: MK-XIIIa

Naval Construction Contract: 7800

Number Proposed: 44

Number Constructed: 44

Number in Service: 44

Number Lost: 0

Dimensions:

Overall Dimensions (Meters)

Length: 247.11 m

Width: 141.72 m

Height: 43.44 m

Primary Hull Dimensions (Meters)

Length: 153.05 m

Width: 141.72 m

Height: 32.94 m

Secondary Hull Dimensions (Meters)

Length: N/A

Width: N/A

Height: N/A

Warp Unit Dimensions (Meters)

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

Displacement (Metric Tons)

Light: 129644 mt

Standard: 138698 mt

Full Load: 155065 mt

Performance:

Impulse Units: Dual Unit (IFP35E/3-G8)

Impulse Engine Output: 7.8×10^{13} W

Impulse Power Index: 1.42

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.141 sec.

0.25-0.50 Impulse: 0.211 sec.

0.50-0.75 Impulse: 0.281 sec.

0.75-Full Impulse: 0.352 sec.

Warp Units: 2 Nacelle Units (SWS21-SAC)

Warp Engine Output: 1.2×10^{18} W

Warp Power Index: 1.42

Optimum Speed: 4

Max. Safe Cruising: 6

Emergency Speed: 8

Max. Speed: 9.1

Destructive Speed: 9.25

Acceleration Power: 3

Acceleration Times:

Warp 1 - Warp 2: 0.141 sec.

Warp 2 - Warp 3: 0.225 sec.

Warp 3 - Warp 4: 0.851 sec.

Warp 4 - Warp 5: 1.223 sec.

Warp 5 - Warp 6: 1.308 sec.

Warp 6 - Warp 7: 1.413 sec.

Warp 7 - Warp 8: 1.814 sec.

Warp 8 - Warp 9: 2.595 sec.

Warp 9 - Warp 9.5: 5.786 sec.

Warp 9.5 - Warp 9.75: 6.68 sec.

Warp 9.75 - Warp 9.9: 13.652 sec.

Duration (Years)

Standard: 4 Years

Maximum: 16 Years

Std. Ships Complement: 347

Officers: 57

Crew (Ensign Grade): 290

Troops: 10

Passengers: 30

Emergency condition: + 466

Medical Facilities:

Doctors: 3

Medical Staff 7

Operating Rooms: 2

Beds: 16

Laboratories: 4

Transporters Total: 8

1 Person: 0

2 Person: 0

6 Person: 3

12 Person: 0

22 Person: 3

Small Cargo: 1

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

Brigs: 8

Replicators: 11

Tractor Beams: 1

Tow Capacity: 3.74×10^8 mt

Max Range: 8×10^4 km

Cargo Specifications:

Standard Cargo Units: 182

Cargo Capacity: 9100 mt

Shuttlecraft Specifications:

Docking Ports: 1

Shuttlecraft Bays Total: 1

Small Bay: 1

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 17

Work Bees: 1

Travel Pods: 1

Aquatic Shuttle: 1

Light Shuttle: 0

Standard Shuttle: 1

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 3

Killer Bees: 2

Light Fighter: 2

Fighter: 2

Heavy Fighter: 2

Lifeboats: 33

Turbolift (8 person): 17

Lifeboat (10 person): 11

Lifeboat (20 person): 5

Lifeboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.95

Stellar Survey: 0.96

Short Range: 0.96

Long Range: 0.97

Navigation: 0.99

Special: 0.94

Computers: 2

Type: Daystrom Duotronic 1-IIg

Type: Daystrom Duotronic 1-IIp

ECM Index: 0.99

Shield Rating:

Shield Index: 1.00

Holdoff Power: 2.27×10^{12} W

Refresh Rate: 6.46×10^{11} W

Breakdown Rate: 7.75×10^{11} W

Shield Dimensions (Meters)

Length: 370.7 m

Width: 212.6 m

Height: 65.2 m

Weapons:

Phaser Power Index: 1.77

Photon Power Index: 1.42

Vessel Power Index: 1.50

Weapon Placement:

Beam (Phasers) Total: 6 banks 2 each

Output: 5×10^{11} W 2.5×10^{11} W

Range: 2.5×10^8 km

Rate of Fire: 30 ppm/Cont.

Forward Banks: 2

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (Heavy Phasers) Total: 2

Output: 1.5×10^{12} W 7.5×10^{11} W

Range: 1×10^6 km

Rate of Fire: 15 ppm

Forward/Rear Banks: 2

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: 2 Bays

Stock: 25

Range: 2×10^8 km

Output: 10-50 MT

Rate of Fire: 10 spm

Forward Bay: 1

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

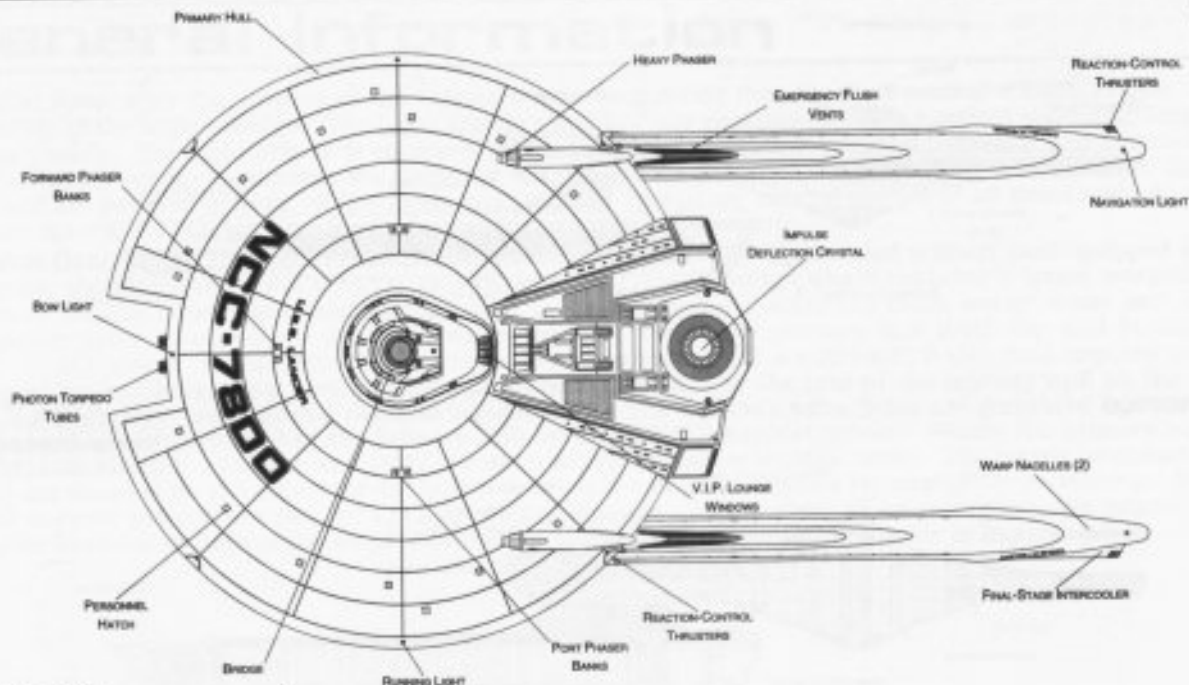
Lower Bay: 0

FEDERATION VESSEL

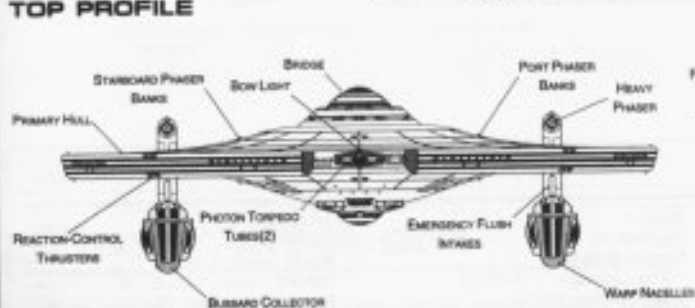
LIGHT FRIGATE



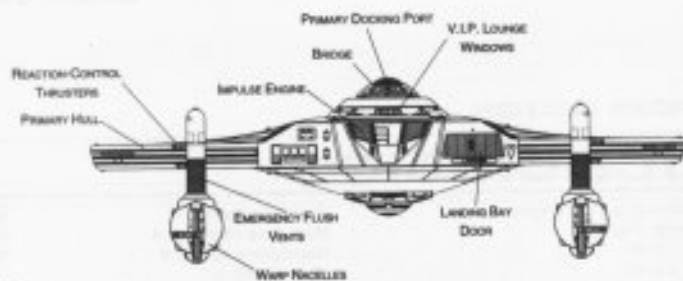
LANCER CLASS



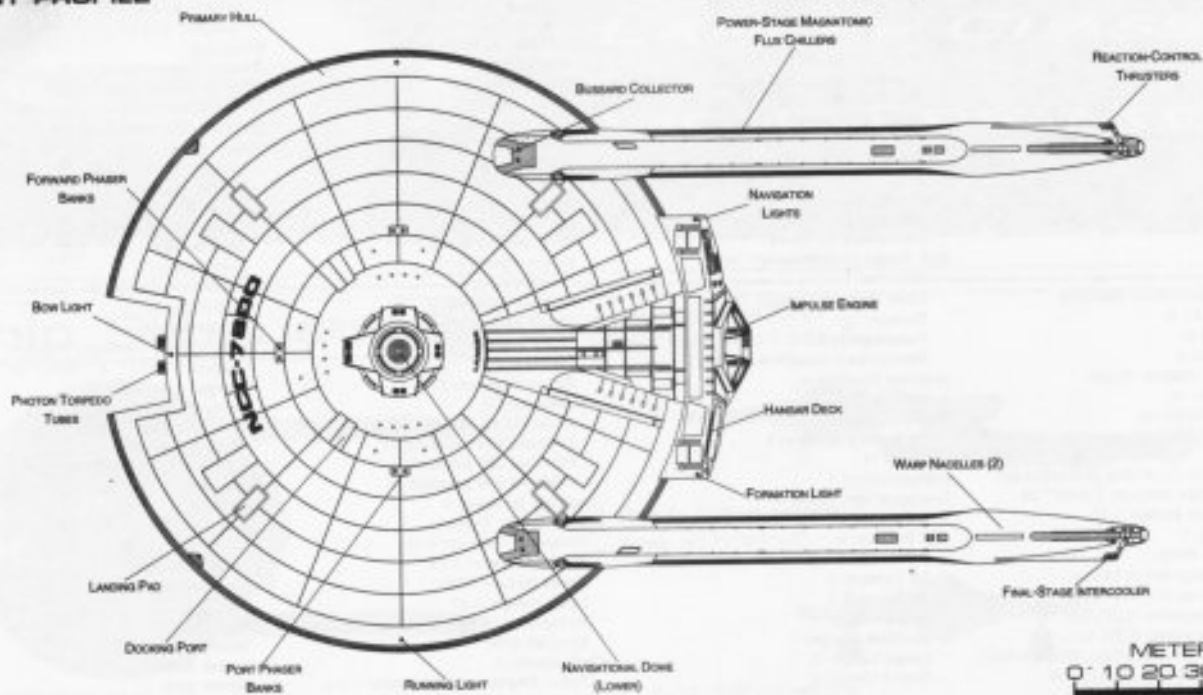
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE



FEDERATION VESSEL



LIGHT FRIGATE

Ship Names

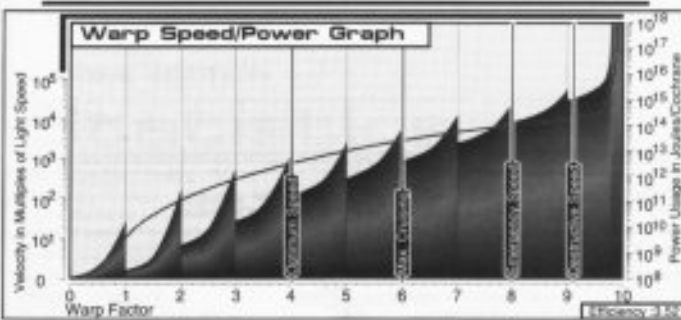
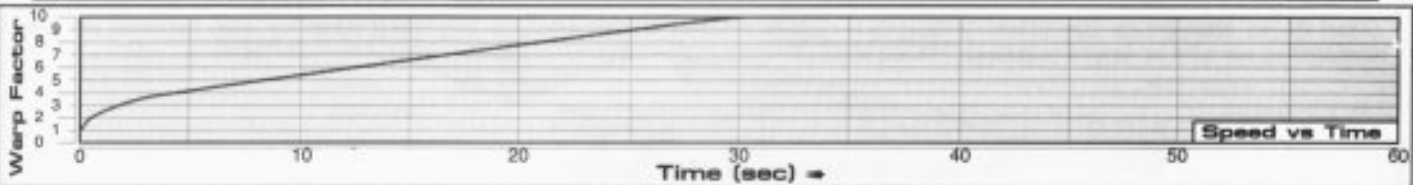
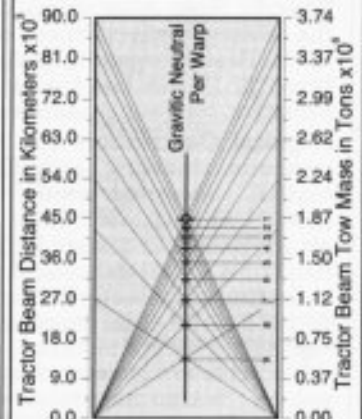
THE FOLLOWING SHIPS OF THE MK-XIIIa CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.7

- | | |
|--------------------------|-------------------------|
| ACROPOLIS • NCC-7824 | LEPANTO • NCC-7803 |
| ARGO • NCC-7807 | LONG SHOT • NCC-7808 |
| ASCENDANT • NCC-7823 | MANTICORE • NCC-7841 |
| ATLANTIA • NCC-7831 | NARCISSUS • NCC-7838 |
| ATROPOS • NCC-7816 | NIMBUS • NCC-7833 |
| AVON • NCC-7825 | OMEGA • NCC-7819 |
| BANGKOK • NCC-7814 | OSPREY • NCC-7843 |
| BOUVINES • NCC-7812 | PACIFICA • NCC-7817 |
| COLUMBIAD • NCC-7821 | PEQUOD • NCC-7813 |
| CONCORDIA • NCC-7815 | PERSEPHONE • NCC-7806 |
| DELAWARE • NCC-7829 | PROKOFIEV • NCC-7804 |
| DIEGO • NCC-7809 | RODGER YOUNG • NCC-7810 |
| DULCIBELLA • NCC-7835 | RYCON • NCC-7839 |
| DUNCAN • NCC-7822 | SOLARIA • NCC-7832 |
| DURANDAL • NCC-7837 | SERENITY • NCC-7828 |
| ENDYMION • NCC-7818 | SURPRISE • NCC-7827 |
| EREBUS • NCC-7811 | ULYSSES • NCC-7842 |
| EVENING STAR • NCC-7834 | WAR MAIDEN • NCC-7836 |
| FAR STAR • NCC-7840 | WARSPITE • NCC-7826 |
| GANTHROR • NCC-7820 | |
| HEART OF GOLD • NCC-7830 | |
| HECATE • NCC-7801 | |
| HOTSPUR • NCC-7802 | |
| JUDEA • NCC-7805 | |
| LANCER • NCC-7800* | |

*CLASS SHIP, "LOST IN THE LINE OF DUTY," "PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

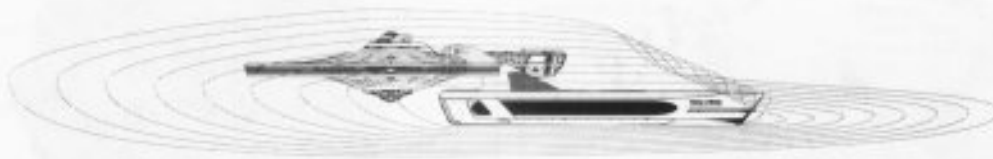
Primary Tractor Beam Load Calculator



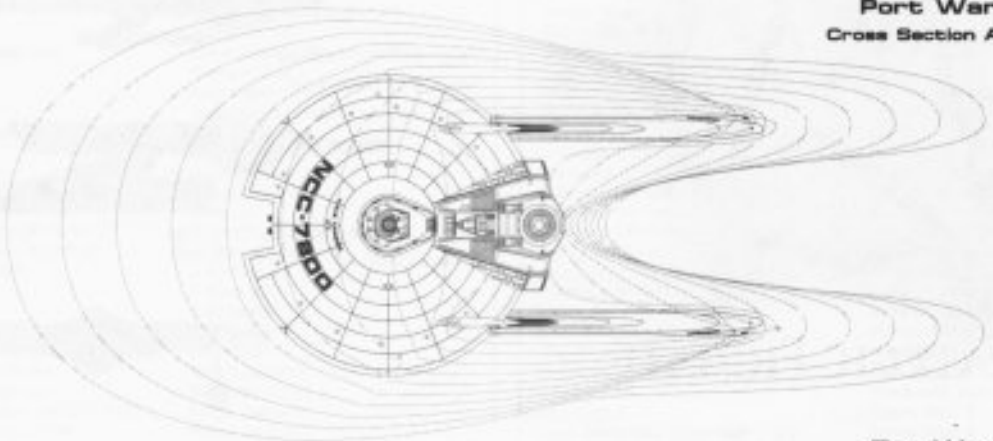
Field Length 464.82m
Field Width 203.28m
Field Height 68.96m



Front Warp Field Profile
Cross Section Area 11163.89 m²



Port Warp Field Profile
Cross Section Area 21910.99 m²



Top Warp Field Profile
Cross Section Area 84495.02 m²

LANCER CLASS

FEDERATION VESSEL

STRATEGIC FRIGATE



SARATOGA CLASS

General Information

Specific Role: After much success with the Heavy Frigate design, Starfleet decided to create a version to increase the strategic effectiveness of the frigate design. The Strategic Frigate shares the stretched, extended primary hull of the Heavy Frigate to make space for dual hangar decks to support and maintain two wings of fighter craft. The Strategic Frigate has two large sensor arrays located to either side of the primary Hull. The sensor arrays are highly sensitive, long range sensors designed to gather strategic data for the fleet.

Physical Description: The Frigate incorporates an (PHE147/Y-M1) extended primary hull equipped with heavy weapons, shielding, and ECM/ECCM devices; as well as a (BS10/G-T1) bridge which contains a larger weapons station. Mounted on the underside of the primary hull is the integrated (SM49/6E) main sensor array and (DN4/1-F) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2B) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/J-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-IT) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on either side of the impulse engines, in the rear of the primary hull. The vessels' warp fields are generated by two (SW52/1-5RC) warp nacelles attached to the primary hull by (DU/25-6D) support pylons. Within the primary hull is the (M30/4-2A) intermix chamber and (AM8/36-4D) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Located to either side of the primary hull are the two (SA45/1-24T) sensor arrays. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

For additional detail refer to Datasheet MV-21

Class Emblem



Ship Silhouettes

Total Target Area 31364.82 m²
Average Target Area 10454.97 m²



Top Silhouette
Area 23109.44 m²



Port Silhouette
Area 5342.40 m²



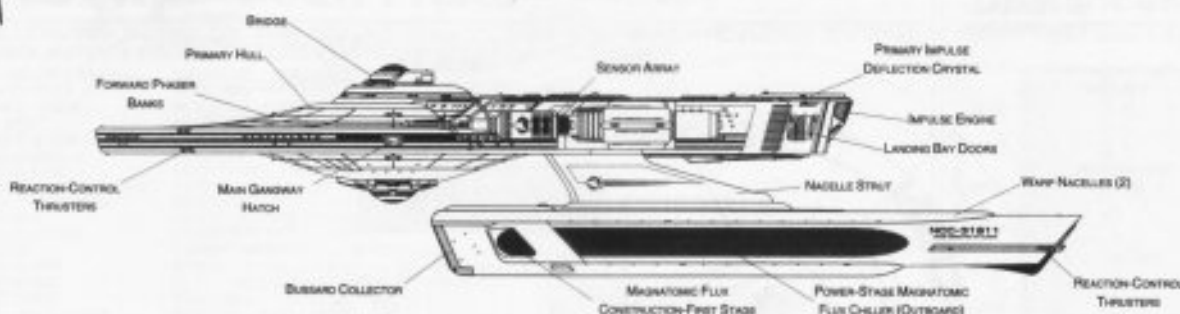
Front Silhouette
Area 2813.08 m²

FEDERATION VESSEL

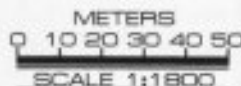


STRATEGIC FRIGATE

SARATOGA CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Strategic Frigate
Category: Frigate
Class: Saratoga
Type: Class I
Model: MK-XXXXG
Naval Construction Contract: 31911
Number Proposed: 42
Number Constructed: 17
Number in Service: 40
Number Lost: 1
Dimensions:
Overall Dimensions (Meters)
 Length: 234.74 m
 Width: 163.05 m
 Height: 50.13 m
Primary Hull Dimensions (Meters)
 Length: 180.04 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 234766 mt
 Standard: 251526 mt
 Full Load: 280763 mt
Performance:
Impulse Units: Dual Unit (IP180E/S-IT)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 0.79
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.255 sec.
 0.25-0.50 Impulse: 0.382 sec.
 0.50-0.75 Impulse: 0.509 sec.
 0.75-Pull Impulse: 0.837 sec.
Warp Units: 2 Nacelle Units (SW52/1-5RC)
Warp Engine Output: 1.2×10^{15} W
Warp Power Index: 0.79

Optimum Speed: 4
Max. Safe Cruising: 6.2
Emergency Speed: 8.4
Max. Speed: 9.2
Destructive Speed: 9.3
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.255 sec.
 Warp 2 - Warp 3: 0.407 sec.
 Warp 3 - Warp 4: 1.541 sec.
 Warp 4 - Warp 5: 2.215 sec.
 Warp 5 - Warp 6: 2.368 sec.
 Warp 6 - Warp 7: 2.559 sec.
 Warp 7 - Warp 8: 3.285 sec.
 Warp 8 - Warp 9: 4.898 sec.
 Warp 9 - Warp 9.5: 10.441 sec.
 Warp 9.5 - Warp 9.75: 12.096 sec.
 Warp 9.75 - Warp 9.9: 25.063 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ship Complement: 640
Officers: 100
Crew (Ensign Grade): 490
Troops: 50
Passengers: 58
Emergency condition: + 824
Medical Facilities:
 Doctors: 4
Medical Staff: 9
Operating Rooms: 3
Beds: 21
Laboratories: 8
Transporters Total: 16
 1 Person: 0
 2 Person: 0
 6 Person: 6
 12 Person: 0
 22 Person: 6
 Small Cargo: 2
 Medium Cargo: 2
 Large Cargo: 0
 Super Cargo: 0

Brigs: 29
Replicators: 19
Tractor Beams: 1
Tow Capacity: 3.01×10^6 mt
Max Range: 9.4×10^4 km
Cargo Specification:
 Standard Cargo Units: 410
 Cargo Capacity: 20500 mt
Shuttlecraft Specifications:
 Docking Ports: 5
Shuttlecraft Bays Total: 2
 Small Bay: 0
 Medium Bay: 2
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 73
 Work Bees: 4
 Travel Pods: 5
 Aquatic Shuttle: 2
 Light Shuttle: 2
 Standard Shuttle: 2
 Heavy Shuttle: 2
 Cargo Shuttle: 2
 Assault Shuttle: 18
 Killer Bees: 8
 Light Fighter: 10
 Fighter: 10
 Heavy Fighter: 8
 Lifeboats: 63
 Turbolift (8 person): 31
 Lifeboat (10 person): 22
 Lifeboat (20 person): 9
 Lifeboat (30 person): 1
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 1.16
 Stellar Survey: 0.96
 Short Range: 1.36
 Long Range: 1.13
 Navigation: 1.36
 Special: 1.93
Computers: 2
 Type: Daystrom Duetronic 1-II-g
 Type: Daystrom Duetronic 1-II-x

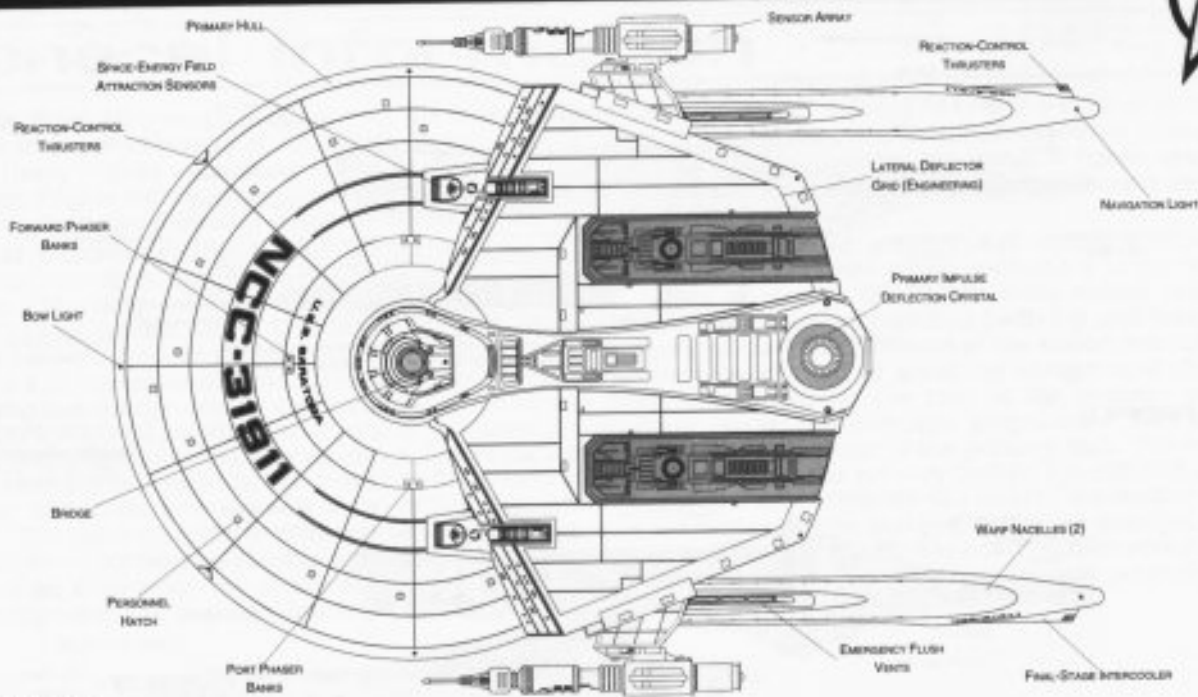
ECM Index: 1.21
Shield Rating:
Shield Index: 0.38
Holdoff Power: 1.57×10^{12} W
Refresh Rate: 4.47×10^{11} W
Breakdown Rate: 5.36×10^{11} W
Shield Dimensions (Meters)
 Length: 352.1 m
 Width: 244.6 m
 Height: 75.2 m
Weapons:
Phaser Power Index: 0.52
Photon Power Index: 3.14
Vessel Power Index: 1.83
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
 Forward Banks: 2
 Rear Banks: 0
 Port Banks: 0
 Starboard Banks: 2
 Upper Banks: 0
 Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 2
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Torpedoes (Photons) Total: 0
 Stock: N/A
 Range: N/A
 Output: N/A
 Rate of Fire: N/A
 Forward Bay: 0
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

FEDERATION VESSEL

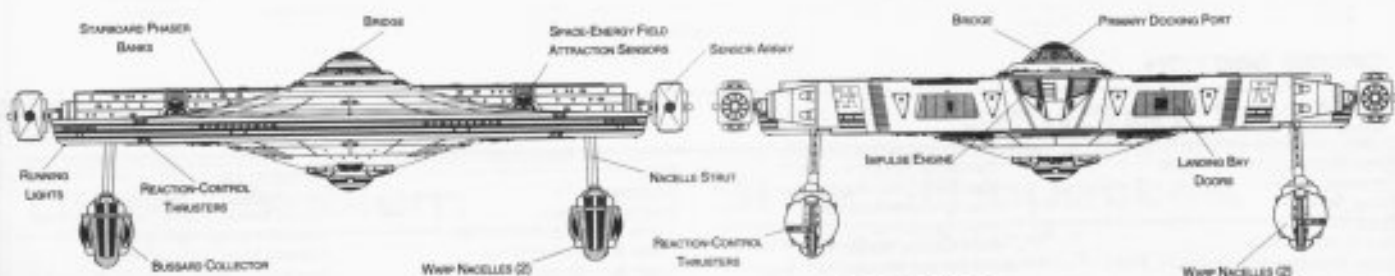
STRATEGIC FRIGATE



SARATOGA CLASS

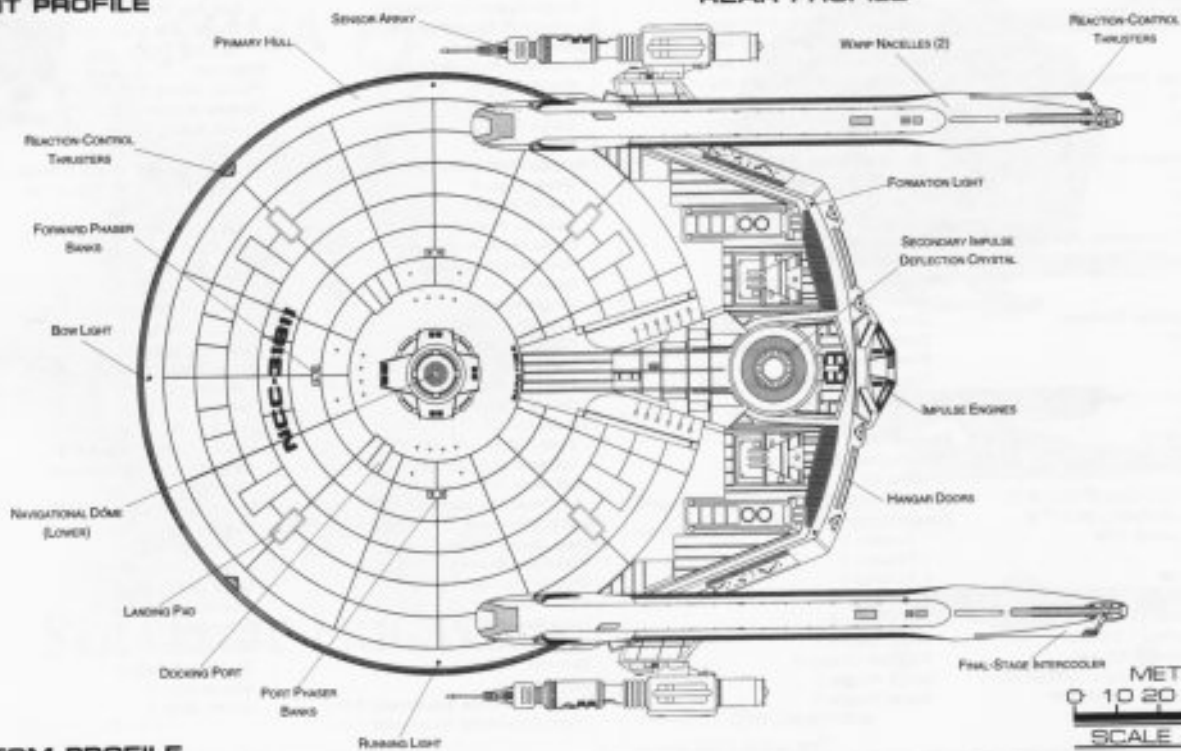


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800

FEDERATION VESSEL



STRATEGIC FRIGATE

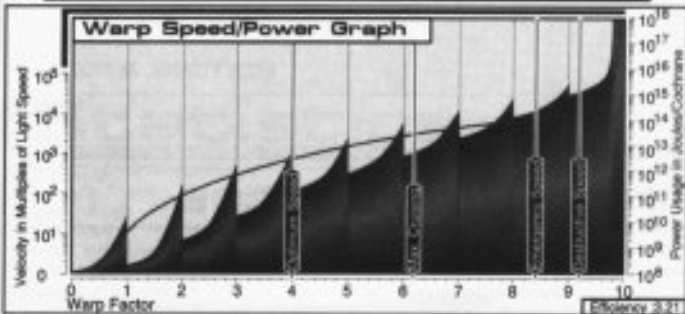
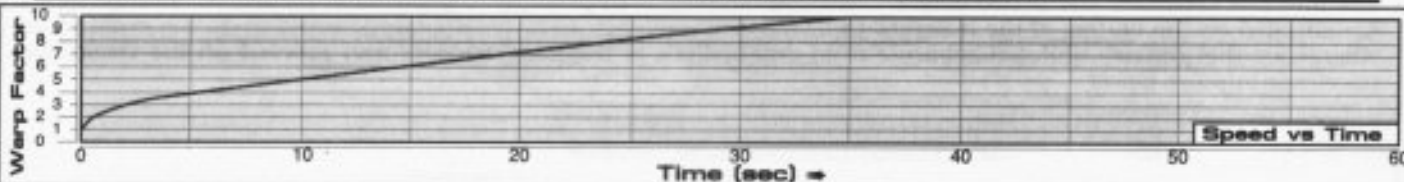
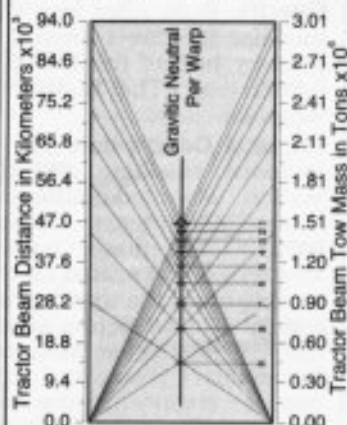
Ship Names

THE FOLLOWING SHIPS OF THE MK-XXXIX^a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2269.3

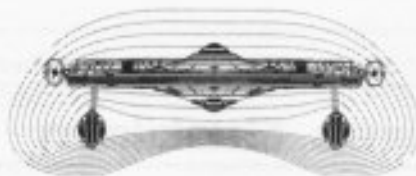
- | | |
|----------------------------|---------------------------|
| ASAL UTTAR -NCC-31936 | NAUTILUS -NCC-31910 |
| BAGHDAD -NCC-31919 | NOSTVEG -NCC-31916 |
| BASANTAR -NCC-31934 | NOZSECA -NCC-31929 |
| BASRA -NCC-31907 | NU CHALCEDONIS -NCC-31901 |
| DELGON-R -NCC-31908 | OGOLO -NCC-31935 |
| FALGOR -NCC-31932 | POLIANA -NCC-31939 |
| FALLUJAH -NCC-31925 | PRENTARES -NCC-31937 |
| FLYING FORTRESS -NCC-31904 | PUSAN -NCC-31927 |
| GAMMA HYDRA -NCC-31926 | REBONET -NCC-31911 |
| JEVCL -NCC-31917 | SARATOGA -NCC-31926 * ** |
| KANDAHAR -NCC-31909 | SHIKHAR -NCC-31930 |
| KLAF -NCC-31922 | SIDRA -NCC-31933 |
| KONDUZ -NCC-31908 | SINBAD IV -NCC-31915 |
| LAHORE -NCC-31942 | SUEZ -NCC-31931 |
| LATAKIA -NCC-31938 | TOLONG -NCC-31921 |
| LASUR FUNOP -NCC-31923 | TRIESTE -NCC-31920 |
| LONG TAN -NCC-31918 | VUKOVAR -NCC-31940 |
| LONGDON -NCC-31908 | |
| LONGEWALA -NCC-31902 | |
| MANARRAM -NCC-31914 | |
| MANILA -NCC-31928 | |
| MINDANAO -NCC-31924 | |
| MOGADISHU -NCC-31913 | |
| NAFKEH -NCC-31912 | |
| NAJAF -NCC-31941 | |

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



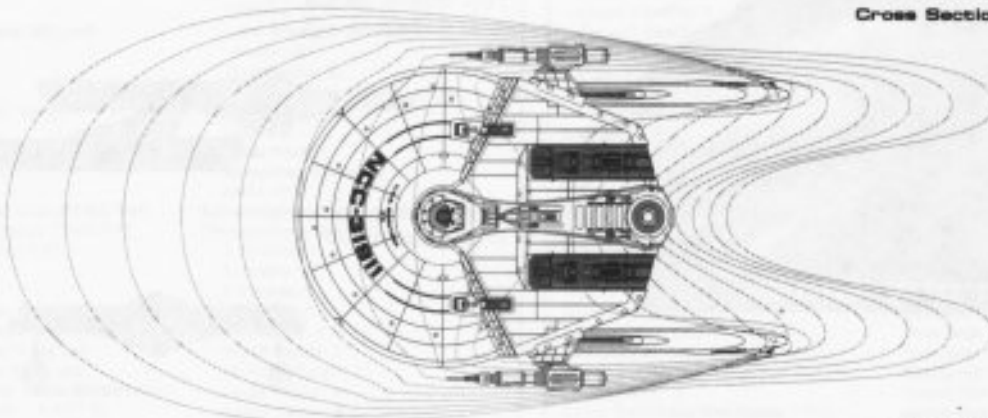
Field Length 469.29m
 Field Width 195.36m
 Field Height 79.13m



Front Warp Field Profile
 Cross Section Area 12314.64 m²



Port Warp Field Profile
 Cross Section Area 26821.01 m²



Top Warp Field Profile
 Cross Section Area 58773.29 m²

TACTICAL FRIGATE

General Information

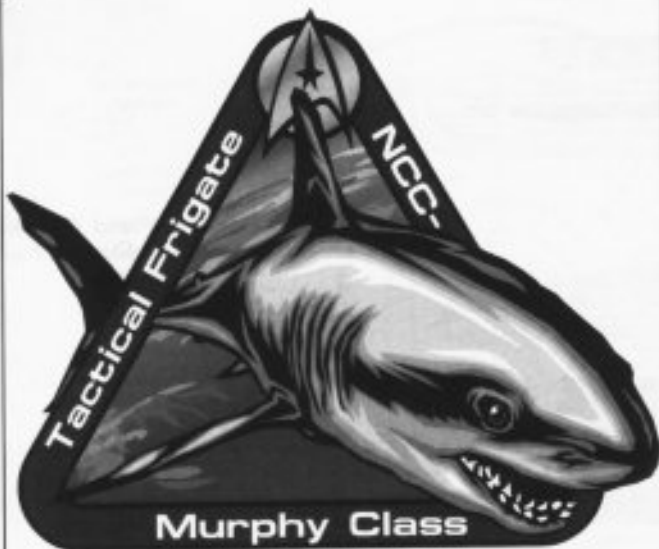


Specific Role: After much success with the Heavy Frigate design, Starfleet decided to create a tactical version to increase the direct assault effectiveness of the frigate design. The Tactical Frigate shares the stretched, extended primary hull of the Heavy Frigate to make space for dual hangar decks to support and maintain two wings of fighter craft. The Tactical Frigate is designed for head on assault with a low profile and forward facing main weapons.

Physical Description: The Frigate incorporates an (PHE147/G-M1) extended primary hull equipped with heavy weapons, shielding, and ECM/ECCM devices; as well as a (BS10/S-T1) bridge which contains a larger weapons station. Mounted on the underside of the primary hull is the integrated (SM49/6L) main sensor array and (DN4/1-L) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2B) phaser banks. Located in notches on either side of the primary hull are the (MP1/15-2Q) MegaPhasers. Located on the top of the primary hull is the forward facing and (PB2/25-10U) torpedo bay. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/J-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-IR) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on either side of the impulse engines, in the rear of the primary hull. The vessels's warp fields are generated by two (SW52/1-5RC) warp nacelles attached to the primary hull by (DU/25-6D) support pylons. Within the primary hull is the (M30/4-2D) intermix chamber and (AM8/36-4A) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power

For additional detail refer to Datasheet MV-22

Class Emblem



Ship Silhouettes

Total Target Area 29550.74 m²
Average Target Area 9850.25 m²



Top Silhouette
Area 21653.14 m²



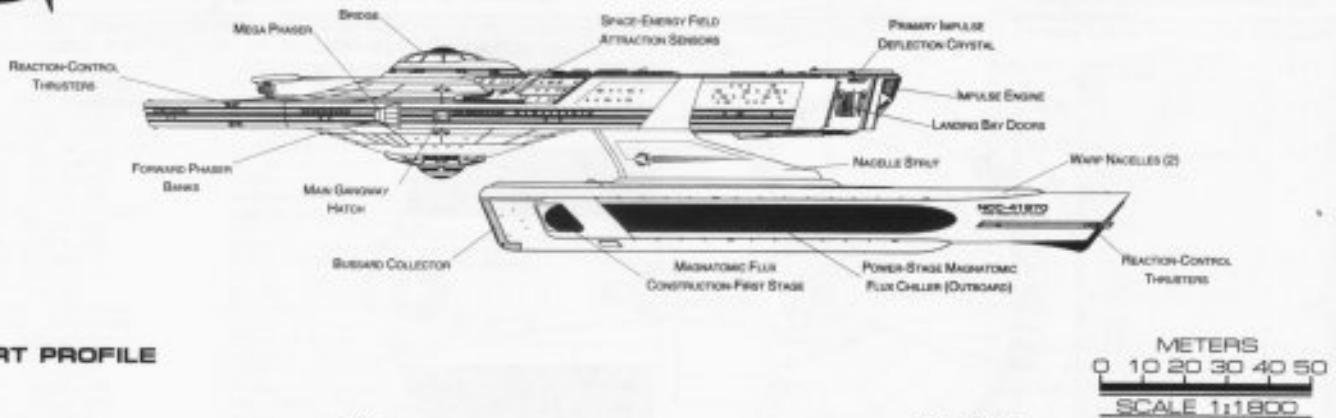
Port Silhouette
Area 5320.39 m²



Front Silhouette
Area 2577.21 m²

TACTICAL FRIGATE

MURPHY CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Tactical Frigate
Category: Frigate
Class: Murphy
Type: Class 1
Model: MK-XLla
Naval Construction Contract: 41970
Number Proposed: 52
Number Constructed: 48
Number in Service: 48
Number Lost: 0
Dimensions:
Overall Dimensions (Meters)
 Length: 234.74 m
 Width: 141.72 m
 Height: 48.37 m
Primary Hull Dimensions (Meters)
 Length: 180.04 m
 Width: 141.72 m
 Height: 31.13 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 211487 mt
 Standard: 226585 mt
 Full Load: 252941 mt
Performance:
Impulse Units: Dual Unit (IP186E/S-IR)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 0.87
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.229 sec.
 0.25-0.50 Impulse: 0.344 sec.
 0.50-0.75 Impulse: 0.459 sec.
 0.75-Full Impulse: 0.574 sec.
Warp Units: 2 Nacelle Units (SWS2/1-SRC)
Warp Engine Output: 1.2×10^{18} W
Warp Power Index: 0.87

Optimum Speed: 4
Max. Safe Cruising: 6.2
Emergency Speed: 8.4
Max. Speed: 9.2
Destructive Speed: 9.3
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.229 sec.
 Warp 2 - Warp 3: 0.367 sec.
 Warp 3 - Warp 4: 1.288 sec.
 Warp 4 - Warp 5: 1.996 sec.
 Warp 5 - Warp 6: 2.133 sec.
 Warp 6 - Warp 7: 2.305 sec.
 Warp 7 - Warp 8: 2.959 sec.
 Warp 8 - Warp 9: 4.232 sec.
 Warp 9 - Warp 9.5: 9.406 sec.
 Warp 9.5 - Warp 9.75: 10.897 sec.
 Warp 9.75 - Warp 9.9: 22.596 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 620
Officers: 97
Crew (Ensign Grade): 473
Troops: 50
Passengers: 52
Emergency condition: + 791
Medical Facilities:
 Doctors: 4
Medical Staff: 9
Operating Rooms: 3
Beds: 21
Laboratories: 7
Transporters Total: 16
 1 Person: 0
 2 Person: 0
 6 Person: 6
 12 Person: 0
 22 Person: 6
 Small Cargo: 2
 Medium Cargo: 2
 Large Cargo: 0
 Super Cargo: 0

Bridge: 26
Replicators: 17
TraCTOR Beams: 1
Tow Capacity: 3.01×10^6 mt
Max Range: 9.4×10^4 km
Cargo Specification:
Standard Cargo Units: 410
Cargo Capacity: 20500 mt
Shuttlecraft Specifications:
Docking Ports: 5
Shuttlecraft Bays Total: 2
 Small Bay: 0
 Medium Bay: 2
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 73
Work Bees: 4
Travel Pods: 5
Aquatic Shuttle: 2
Light Shuttle: 2
Standard Shuttle: 2
Heavy Shuttle: 2
Cargo Shuttle: 2
Assault Shuttle: 16
Killer Bees: 8
Light Fighter: 10
Fighter: 10
Heavy Fighter: 6
Lifeboats: 60
TurboLift (8 person): 28
Lifeboat (10 person): 22
Lifeboat (20 person): 0
Lifeboat (30 person): 1
Cloaking Devices: 0
Sensor Index Values:
Planetary Survey: 1.16
Stellar Survey: 0.96
Short Range: 1.36
Long Range: 1.13
Navigation: 1.36
Special: 1.93
Computers: 2
 Type: Daystrom Duotronic 1-IIIg
 Type: Daystrom Duotronic 1-IIx

ECM Index: 1.21
Shield Rating:
Shield Index: 0.47
Holdoff Power: 1.75×10^{12} W
Refresh Rate: 4.96×10^{11} W
Breakdown Rate: 5.95×10^{11} W
Shield Dimensions (Meters)
 Length: 352.1 m
 Width: 212.6 m
 Height: 72.6 m
Weapons:
Phaser Power Index: 0.58
Photon Power Index: 3.49
Vessel Power Index: 2.03
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 0
Port Banks: 2
Starboard Banks: 2
Upper Banks: 0
Lower Banks: 0
Beam (MegaPhasers) Total: 2
 Output: 2.6×10^{12} W 1.3×10^{12} W
 Range: 1.0×10^6 km
 Rate of Fire: 15 ppm/Cont.
Forward/Rear Banks: 2
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: 2 Bays
 Stock: 50
 Range: 2×10^5 km
 Output: 10-50 MT
 Rate of Fire: 10 spm
Forward Bay: 1
Rear Bay: 1
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

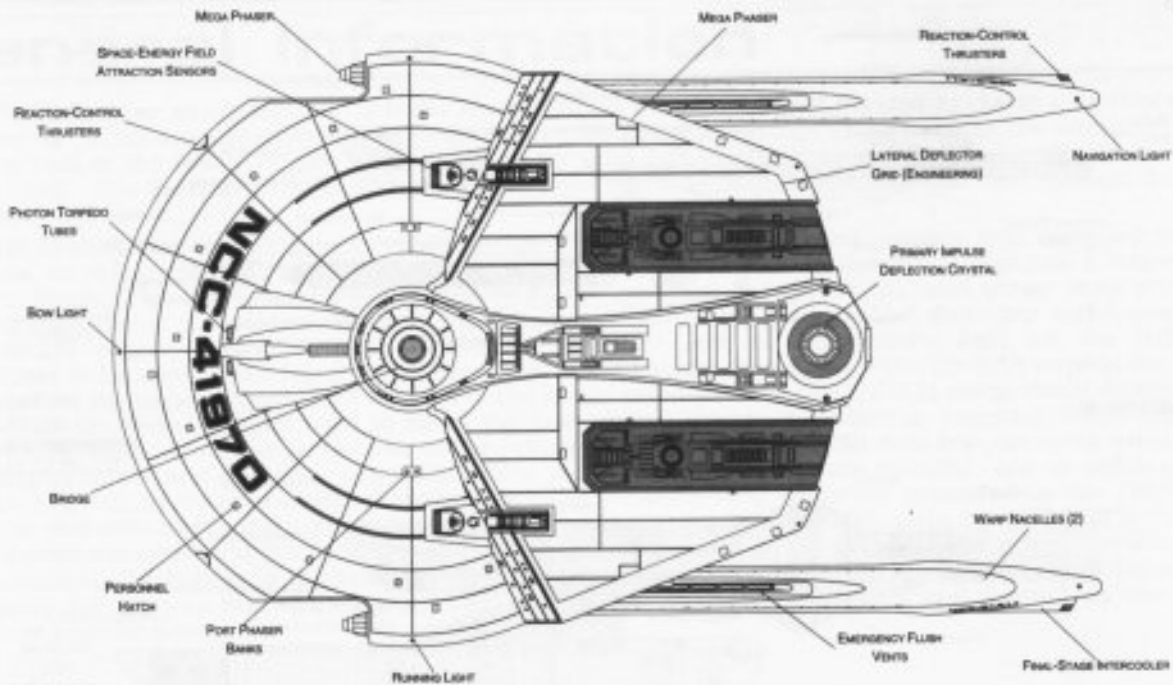
FEDERATION VESSEL

TACTICAL FRIGATE

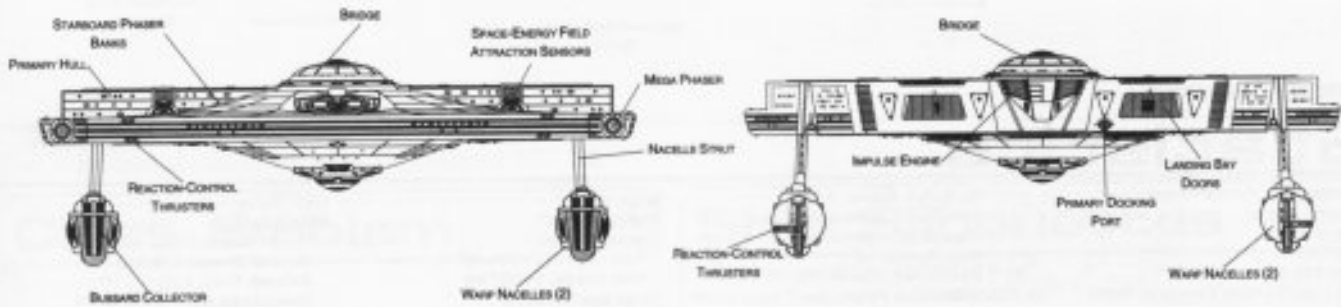


MURPHY CLASS

FEDERATION VESSEL

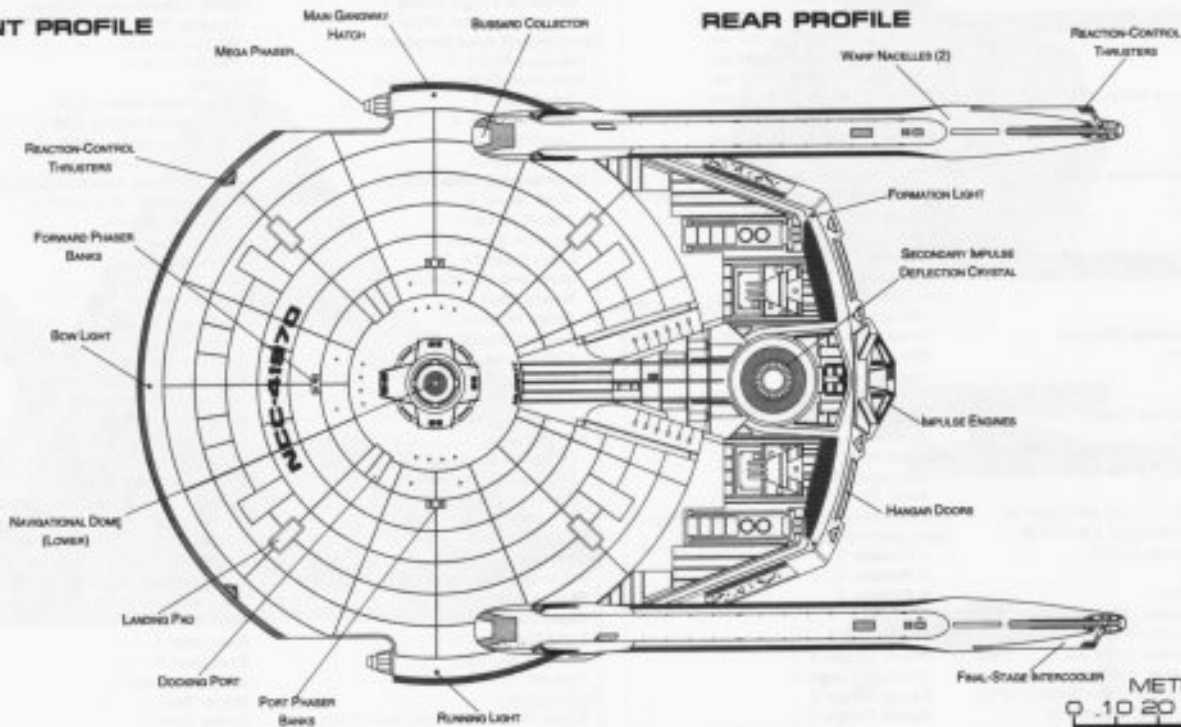


TOP PROFILE

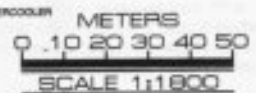


FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE





TACTICAL FRIGATE

Ship Names

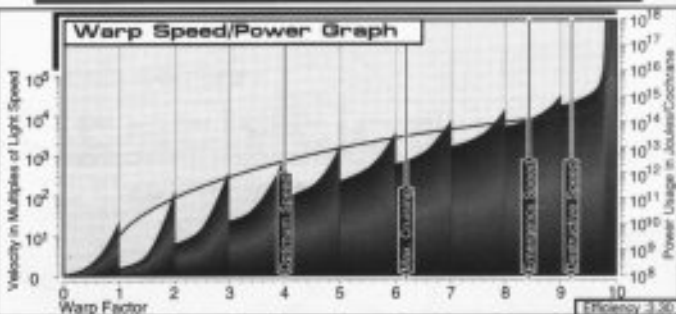
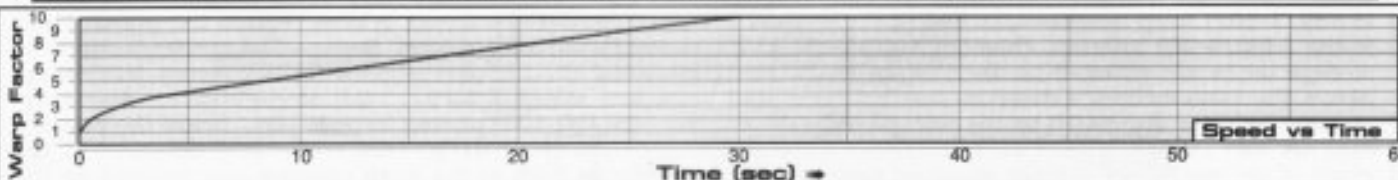
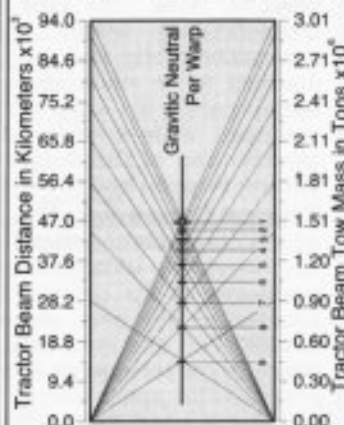
THE FOLLOWING SHIPS OF THE MK-XL_a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2271.5

AHAB -NCC-41934	NETANYAHU -NCC-41901	YADIN -NCC-41909
ALLENBY -NCC-41915	PATTON -NCC-41912	ZENG -NCC-41931
BARAK -NCC-41927	PIZARRO -NCC-41911	
BENDEN -NCC-41935	RABIN -NCC-41923	
BLACKWATER -NCC-41916	ROBOR-WHEELER -NCC-41946	
BONAPARTE -NCC-41948 ***	SCHWARZKOPF -NCC-41919	
CARNOT -NCC-41922	SELIM -NCC-41938	
CASEY -NCC-41924	SHAKA -NCC-41951 ***	
CHIANG -NCC-41920	SHARON -NCC-41904	
CHURCHILL -NCC-41902	SHEGAI -NCC-41929	
CRUMP -NCC-41921	SHINGEN -NCC-41936	
CYRUS -NCC-41926	SHRUTH -NCC-41930	
DAR -NCC-41937	SIGUL -NCC-41942	
ELAZAR -NCC-41918	SOLEK -NCC-41944	
GIAP -NCC-41925	SULEN -NCC-41945	
GUDERIAN -NCC-41907	SUVOROV -NCC-41933	
HAMMOND -NCC-41928	TODD -NCC-41913	
HIDEKI -NCC-41903	TORSTENSSON -NCC-41949 ***	
HUNNAWALT -NCC-41906	TRUMAN -NCC-41950 ***	
KEMAL -NCC-41943	TVHET -NCC-41914	
KENSHIN -NCC-41941	VILNAI -NCC-41932	
KYENSE -NCC-41910	VON MANNERHEIM -NCC-41917	
MANN -NCC-41938	VON SCHLIEFFEN -NCC-41940	
MAXWIL -NCC-41947	WELLESLEY -NCC-41908	
MURPHY -NCC-41970 *	WESLEY -NCC-41906	

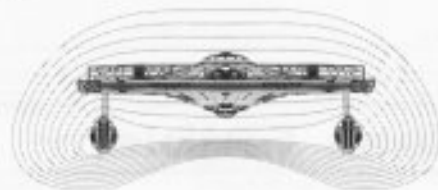
*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED, ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



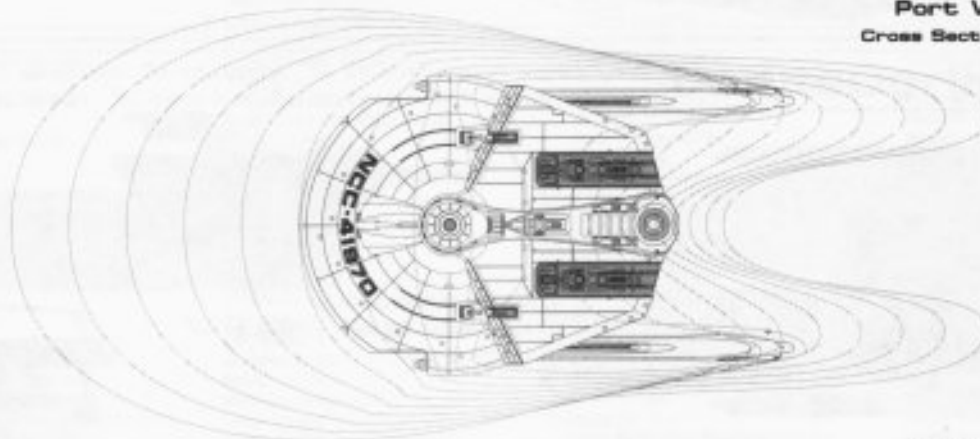
Field Length 463.60m
Field Width 203.27m
Field Height 85.37m



Front Warp Field Profile
Cross Section Area 13824.45 m²



Port Warp Field Profile
Cross Section Area 39580.03 m²



Top Warp Field Profile
Cross Section Area 89067.47 m²

ASSAULT TRANSPORT / TUG



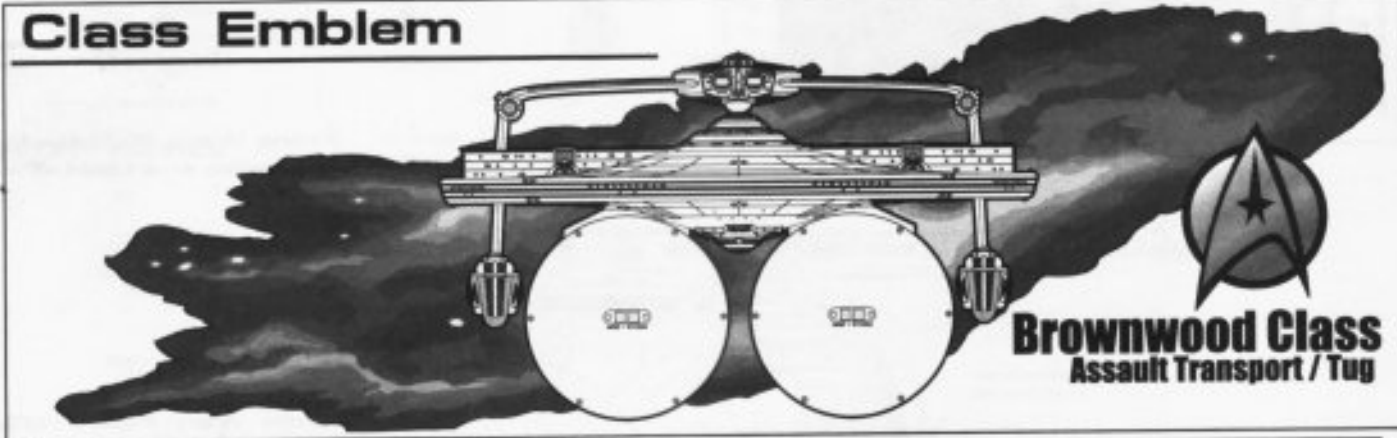
General Information

Specific Role: The ever increasing tonnage of equipment and supplies called for the design of a heavier transport/tug vessel. The Assault Transport/Tug's internal arrangement allows additional passenger accommodations and even a few staterooms. Although slower than the Transport/Tug, the towing capacity has doubled while maintaining the same power consumption. The tug is able to carry up to six containers by manipulating it's warp field to cover the additional containers, but with a reduction of top speed. The tug is also equipped with a heavy duty tractor beam designed for extreme range and tonnage. The most noticeable modification of the design is the addition of a roll bar used to support the photon torpedo weapons pod. The photon torpedo pod gives the vessel both forward and rear attack angles.

Physical Description: The Assault Transport/Tug incorporates an (PHE147/F-T2) extended primary hull equipped which contains additional passenger accommodations. The primary hull is equipped with the (BS9/F-R5) bridge that contains additional navigation stations and multiple field manipulation instrumentation. Mounted on the underside of the primary hull is the integrated (SM49/6M) main sensor array and (DN4/1-F) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are (DN2/J-4.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-FG) dual impulse units which are used for auxiliary power and sub-light propulsion. Two medium hangar decks are installed, one on either side of the impulse engines, in the rear of the primary hull. The vessels's warp fields are generated by two (SW52/1-5RF) warp nacelles attached to the primary hull by (DU/25-6F) support pylons. Within the primary hull is the (M30/4-2G) intermix chamber and (AMB/36-4F) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Above the primary hull extension mounted port and starboard are two (MP2/15-2J) MegaPhasers. Above the primary hull and supported by the (DU/52-12S) roll bar is a (PB4/50-10G) photon torpedo pod. Below the primary hull are two (AP3/T-3) container attachment plates connected by two (DU/20-16A) connecting dorsals. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

For additional detail refer to Datasheet MVA-4

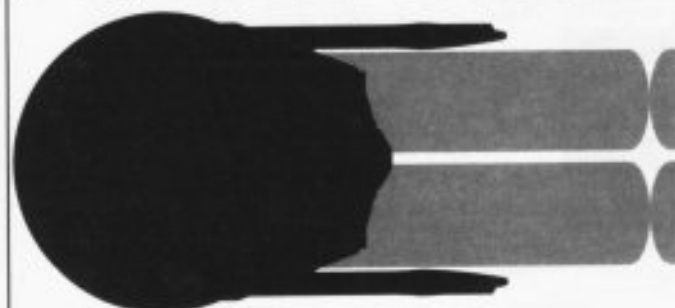
Class Emblem



Brownwood Class
Assault Transport / Tug

Ship Silhouettes

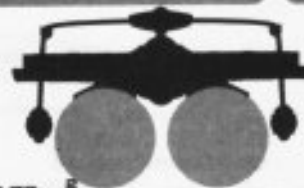
Total Target Area 31401.77 m² 47520.77 m² 55338.65 m²
Average Target Area 10467.26 m² 15840.29 m² 18448.22 m²



Top Silhouette
Area 21864.12 m² 28272.33 m² 34580.56 m²



Port Silhouette
Area 5256.99 m² 14558.31 m²
14558.31 m²



Front Silhouette
Area 3180.86 m² 4690.22 m² 6199.78 m²

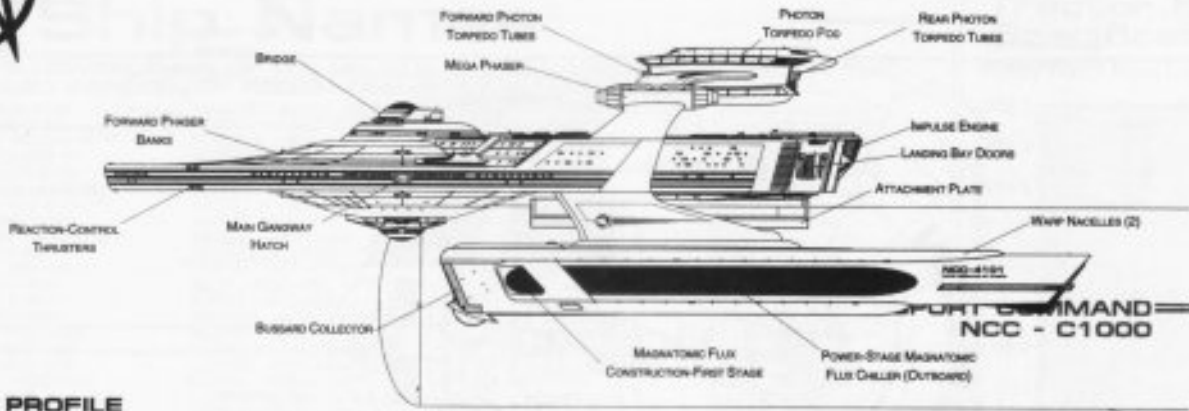
BROWNWOOD CLASS

FEDERATION VESSEL

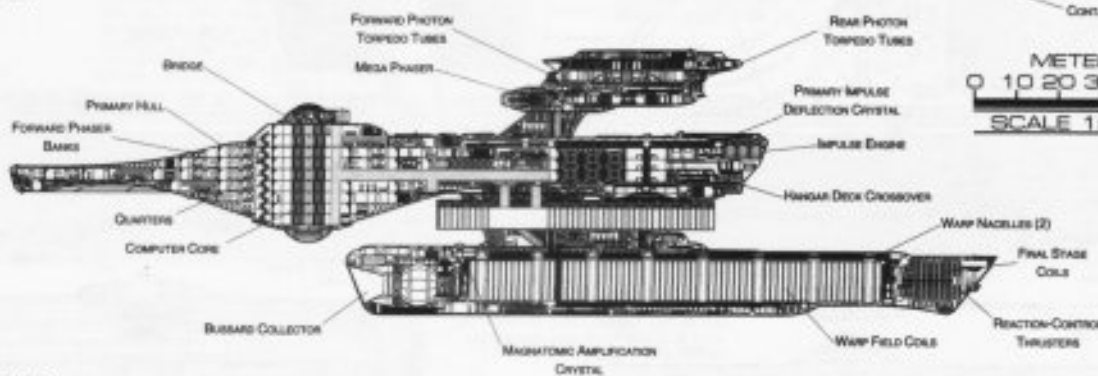


ASSAULT TRANSPORT / TUG

BROWNWOOD CLASS



PORT PROFILE



CROSS SECTION



Statistics

Classification: Assault Trans/Tug
Category: Trans /Tug
Class: Brownfield
Type: Class 1
Model: MK-XL3a
Naval Construction Contract: 4300
Number Proposed: 96
Number Constructed: 70
Number in Service: 69
Number Lost: 1
Dimensions:
Overall Dimensions (Meters)
 Length: 234.74 m
 Width: 141.72 m
 Height: 63.64 m
Primary Hull Dimensions (Meters)
 Length: 180.04 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 226212 mt
 Standard: 242361 mt
 Full Load: 270552 mt
Performance:
Impulse Units: Dual Unit (IP185E/5-FG)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 0.82
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.245 sec.
 0.25-0.50 Impulse: 0.368 sec.
 0.50-0.75 Impulse: 0.491 sec.
 0.75-Full Impulse: 0.613 sec.
Warp Units: 2 Nacelle Units (SWS21-SRF)
Warp Engine Output: 1.2×10^{16} W
Warp Power Index: 0.82

Optimum Speed: 4
Max. Safe Cruising: 6
Emergency Speed: 8
Max. Speed: 9.19
Destructive Speed: 9.29
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.245 sec.
 Warp 2 - Warp 3: 0.368 sec.
 Warp 3 - Warp 4: 1.485 sec.
 Warp 4 - Warp 5: 2.135 sec.
 Warp 5 - Warp 6: 2.282 sec.
 Warp 6 - Warp 7: 2.466 sec.
 Warp 7 - Warp 8: 3.165 sec.
 Warp 8 - Warp 9: 4.527 sec.
 Warp 9 - Warp 9.5: 10.06 sec.
 Warp 9.5 - Warp 9.75: 11.655 sec.
 Warp 9.75 - Warp 9.9: 24.169 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 490
 Officers: 83
 Crew (Ensign Grade): 407
 Troops: 0
 Passengers: 50
 Emergency condition: + 686
Medical Facilities:
 Doctors: 3
Medical Staff: 7
 Operating Rooms: 2
 Beds: 16
Laboratories: 10
Transporters Total: 11
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 4
 Small Cargo: 1
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

Brigs: 22
Replicators: 18
Trajector Beams: 1
 Tow Capacity: 3.67×10^6 mt
 Max Range: 1.68×10^6 km
Cargo Specification:
 Standard Cargo Units: 291
 Cargo Capacity: 14550 mt
Shuttlecraft Specifications:
Docking Ports: 3
Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 16
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 2
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
 Lifeboats: 50
 Turbolift (8 person): 30
 Lifeboat (10 person): 14
 Lifeboat (20 person): 6
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.97
 Stellar Survey: 0.86
 Short Range: 0.96
 Long Range: 0.86
 Navigation: 1.12
 Special: 1.94
Computers: 2
 Type: Daystrom Duotronic 1-IIIc
 Type: Daystrom Duotronic 1-IIp

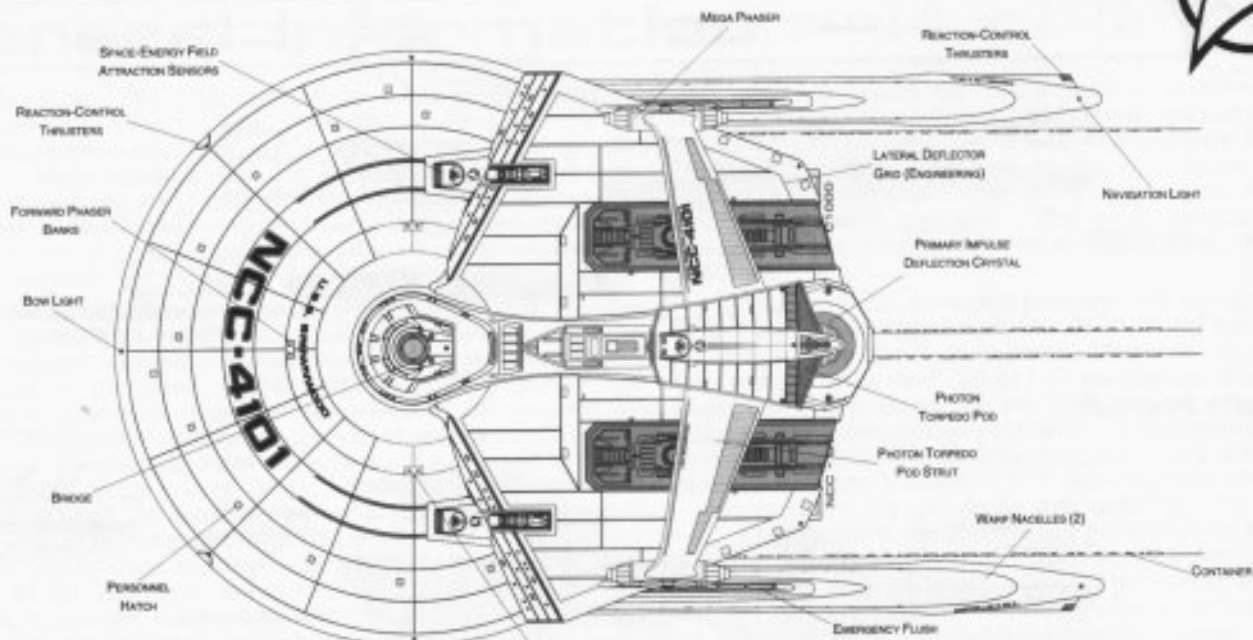
ECM Index: 1.12
Shield Rating:
Shield Index: 0.33
 Holdoff Power: 1.3×10^{12} W
 Refresh Rate: 3.7×10^{11} W
 Breakdown Rate: 4.43×10^{11} W
Shield Dimensions (Meters)
 Length: 352.1 m
 Width: 212.6 m
 Height: 95.5 m
Weapons:
Phaser Power Index: 1.01
Photon Power Index: 0.00
Vessel Power Index: 0.51
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 0
Port Banks: 2
Starboard Banks: 2
Upper Banks: 0
Lower Banks: 0
Beam (MegaPhasers) Total: 2
 Output: 2.6×10^{12} W 1.3×10^{12} W
 Range: 1×10^6 km
 Rate of Fire: 15 ppm
Forward/Rear Banks: 2
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photons) Total: 4 Bays
 Stock: 50
 Range: 2×10^6 km
 Output: 10-50 MT
 Rate of Fire: 10 spm
Forward Bay: 1
Rear Bay: 1
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

FEDERATION VESSEL

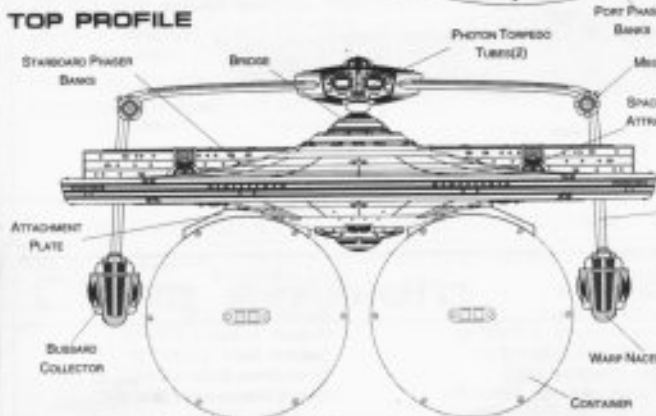
ASSAULT TRANSPORT / TUG



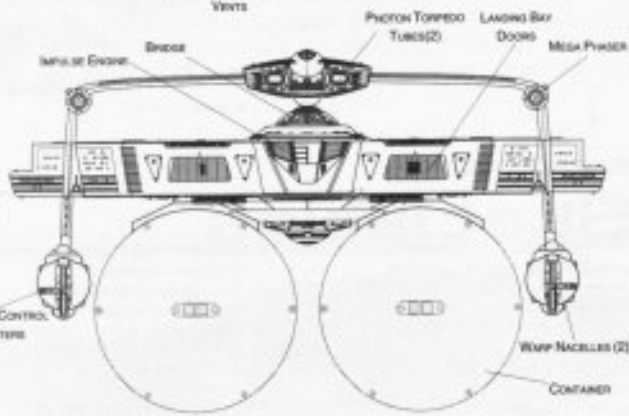
BROWNWOOD CLASS



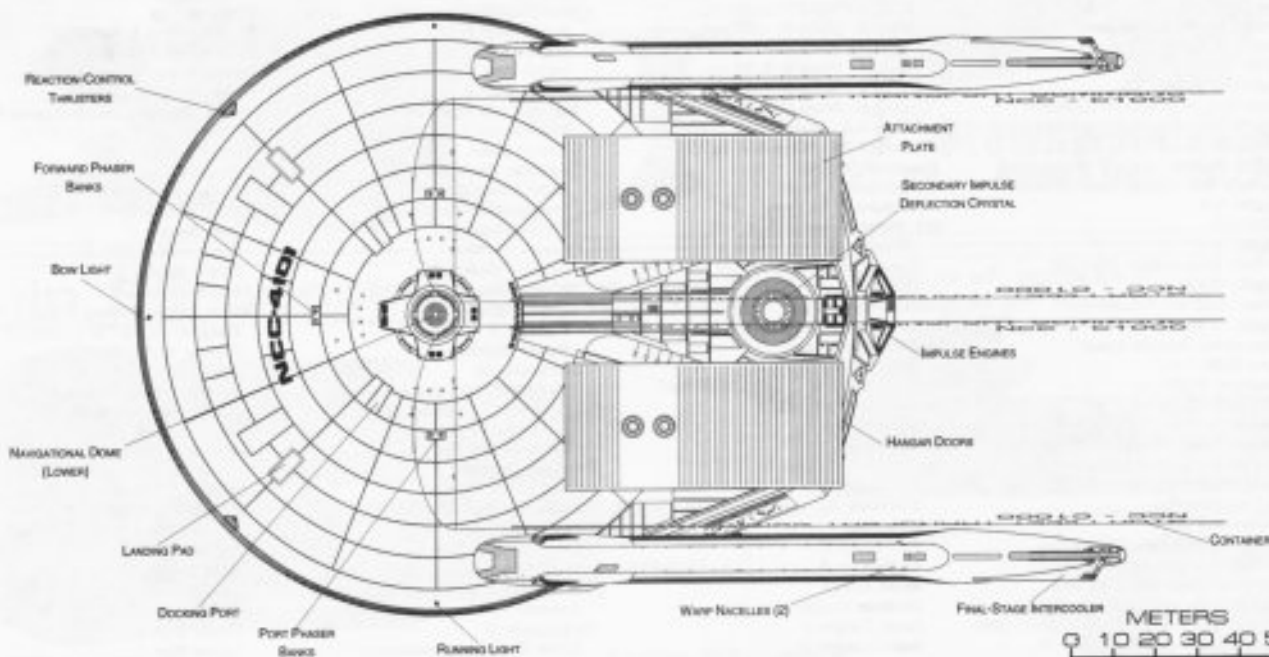
TOP PROFILE



FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE

METERS
0 10 20 30 40 50
SCALE 1:1800

FEDERATION VESSEL



ASSAULT TRANSPORT / TUG

Ship Names

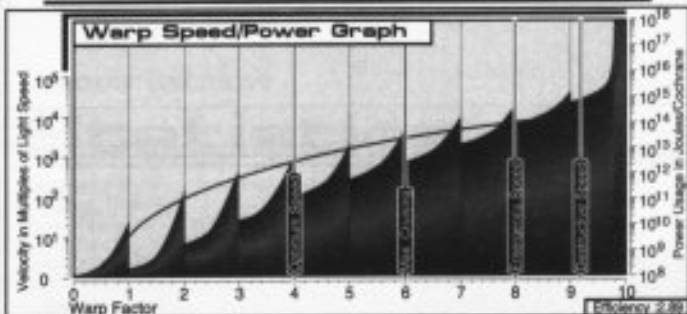
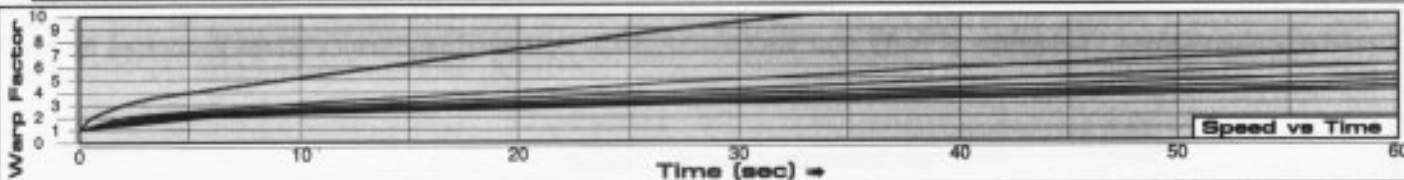
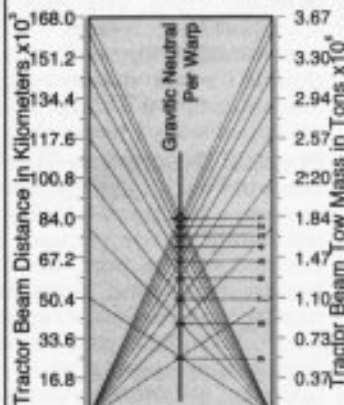
THE FOLLOWING SHIPS OF THE MK-XLI_a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.6

ALTAMA ·NCC-4168	HELLAS PLANITIA ·NCC-4119	NORBEC ·NCC-4157	THARAN ·NCC-4134
ATTICA ·NCC-4102	HIMALAYA ·NCC-4148	NYRIA ·NCC-4193 ***	THARAZAD ·NCC-4151
BENDACON ·NCC-4191 ***	HYPURIA ·NCC-4189 ***	OANIRU ·NCC-4122	THORAIN ·NCC-4170
BOL'KI ·NCC-4182 ***	INGARROI ·NCC-4136	OREAS ·NCC-4175 ***	THORBOL ·NCC-4163
BOLSHOI ·NCC-4164	ISSA ·NCC-4113	PANARA ·NCC-4143	TIRASH ·NCC-4192 ***
BROWNWOOD ·NCC-4101 *	JORINAL ·NCC-4132	RABINU ·NCC-4144	TLANEK ·NCC-4158
CATARAN ·NCC-4178 ***	KA'THELA ·NCC-4128	RANAAL ·NCC-4196 ***	TOLANT ·NCC-4137
CATARIA ·NCC-4127	KA'EOS ·NCC-4112	RASARA ·NCC-4106	UIL ·NCC-4166
CHELEB-KDR ·NCC-4110	KEVRAL ·NCC-4155	RATHAN ·NCC-4118	ULIMAR ·NCC-4124
DALAR ·NCC-4181	KHARAZAD ·NCC-4171 ***	RIDAARIAN ·NCC-4133	VAKO ·NCC-4145
DALMA'AR ·NCC-4104	KIRUNA ·NCC-4179 ***	SAHARA ·NCC-6108	VALLES ·NCC-4156
EGAPH ·NCC-4105	KLOR ·NCC-4167	SAN ANDREAS ·NCC-4147	VELIKO ·NCC-4141
EKAL ·NCC-4194 ***	KOTAY ·NCC-4120	SANDAK ·NCC-4146	VENAR ·NCC-4186 ***
ENALA ·NCC-4169	KRISTAV ·NCC-4118	SAS-A-SHAR ·NCC-4188 ***	VERMILION ·NCC-4123
EVANAROI ·NCC-4139	KULVIR ·NCC-4121	SHALAVEN ·NCC-4107	VILTAN ·NCC-4190 ***
EVEREST ·NCC-4129	L'LANGON ·NCC-4126	SIBIR ·NCC-4181 ***	VORAL ·NCC-4195 ***
FORGAR ·NCC-4138	LANDEK ·NCC-4159	SIERRA NEVADA ·NCC-4117	XORTAN ·NCC-4140
FULDA GAP ·NCC-4160	LASTIA ·NCC-4174 ***	SOREB ·NCC-4125	ZALOK ·NCC-4172 ***
GOL ·NCC-4148	LORISA ·NCC-4109	SSOREF ·NCC-4186 ***	ZANARIL ·NCC-4131
GOLAN HEIGHTS ·NCC-4111	MAK'ALA ·NCC-4103 ***	TKURAT ·NCC-4177 ***	ZELOK ·NCC-4114
GOLTHA ·NCC-4150	MARGUD ·NCC-4183 ***	TANGOR ·NCC-4166	ZORAR ·NCC-4130
GOMU ·NCC-4187 ***	MARIANAS ·NCC-4152	TARHANA ·NCC-4190 ***	
GORAAN ·NCC-4184 ***	MENSHOI ·NCC-4162	TEM'TIBI ·NCC-4142	
GORHEV ·NCC-4153	NA'NAM ·NCC-4154	TENAR ·NCC-4115 ***	
HAN-SHIR ·NCC-4173 ***	NIVEL ·NCC-4135	TESSEN ·NCC-4176 ***	

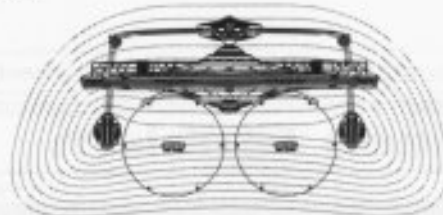
*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED, ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

Primary Tractor Beam Load Calculator



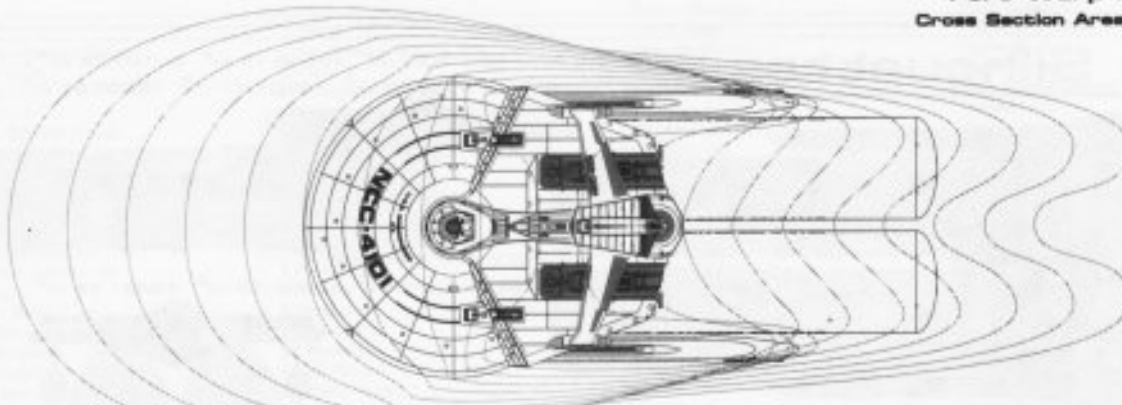
Field Length 532.87m
Field Width 207.31m
Field Height 100.36m



Front Warp Field Profile
Cross Section Area 17585.39 m²



Port Warp Field Profile
Cross Section Area 38350.40 m²



Top Warp Field Profile
Cross Section Area 83674.42 m²

BROWNWOOD CLASS

FEDERATION VESSEL

HEAVY TRANSPORT / TUG



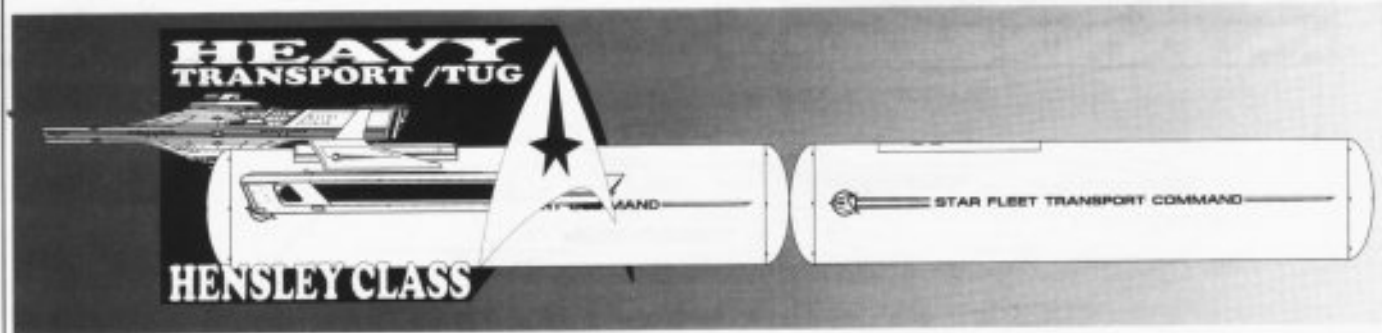
General Information

Specific Role: The ever increasing tonnage of equipment and supplies called for the design of a heavier transport/tug vessel. The Heavy Transport/Tug's internal arrangement allows additional passenger accommodations and even a few staterooms. Although slower than the Transport/Tug, the towing capacity has doubled while maintaining the same power consumption. The tug is able to carry up to six containers by manipulating it's warp field to cover the additional containers, but with a reduction of top speed. The tug is also equipped with a heavy duty tractor beam designed for extreme range and tonnage.

Physical Description: The Transport/Tug incorporates an (PHE147/W-T2) extended primary hull equipped which contains additional passenger accommodations. The primary hull is equipped with the (BS9/F-R5) bridge that contains additional navigation stations and multiple field manipulation instrumentation. Mounted on the underside of the primary hull is the integrated (SM49/6S) main sensor array and (DN4/2-T) navigation dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. Port and starboard on the upper primary hull forward of the raised extension, are the (DN2/T-5.2) navigational deflector/space-energy field attraction sensors used to assist the navigational shields in deflecting oncoming debris and monitor space-energy fields. Mounted on the rear of the primary hull are (IP186E/5-MN) dual impulse units which are used for auxiliary power and sub-light propulsion. Situated to the rear of the primary hull on the starboard side of the impulse engines, is a medium hangar deck. The vessels's warp fields are generated by two (SW52/1-5RG) warp nacelles attached to the primary hull by (DU/25-6G) support pylons. Within the primary hull are the (M28/4-2Y) intermix chamber and (AM8/36-4S) matter/antimatter storage tanks. The matter/antimatter storage tanks are situated on the bottom of the hull just below the impulse engines for emergency jettisoning. Below the primary hull are two (AP3/T-3) container attachment plates connected by two (DU/20-16A) connecting dorsals. In the event of an emergency the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

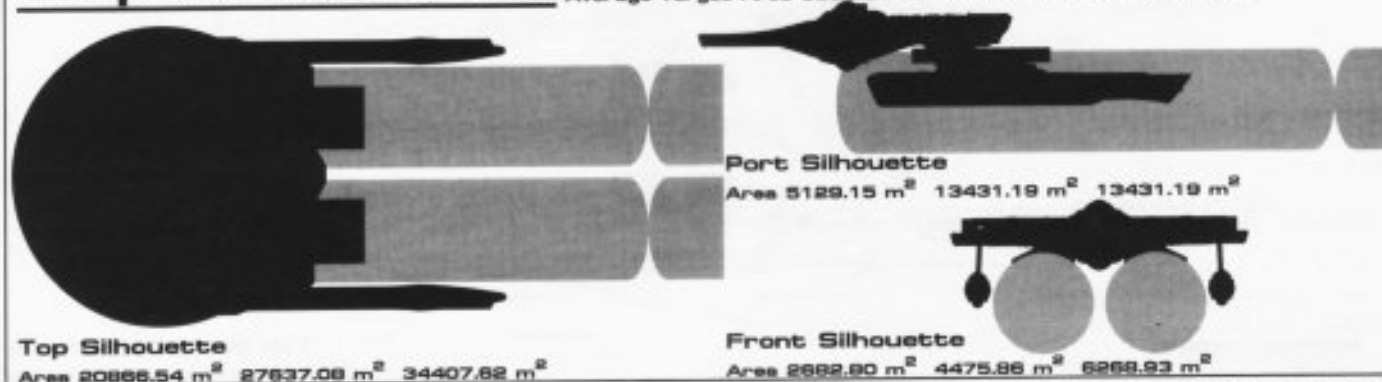
For additional detail refer to Datasheet MVA-3

Class Emblem



Ship Silhouettes

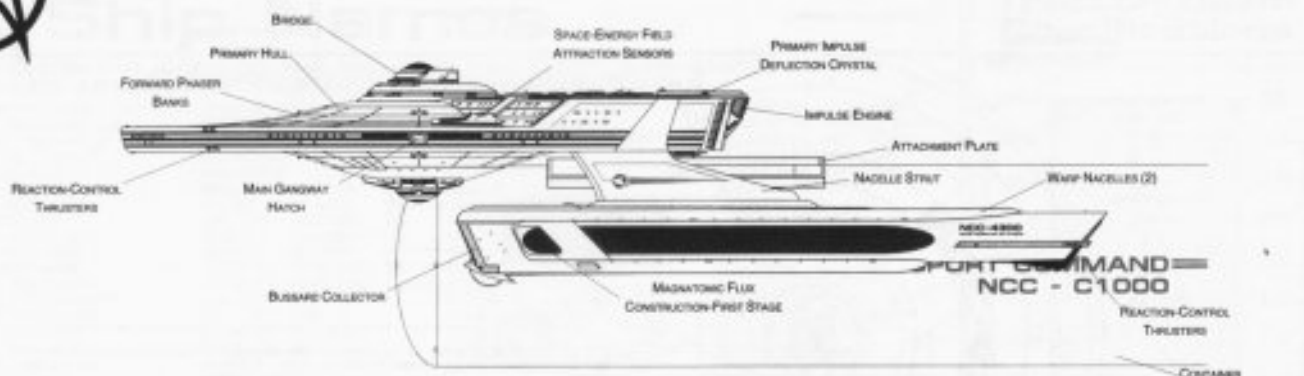
Total Target Area 28878.48 m² 45544.13 m² 54107.74 m²
 Average Target Area 9559.50 m² 15181.37 m² 18035.91 m²



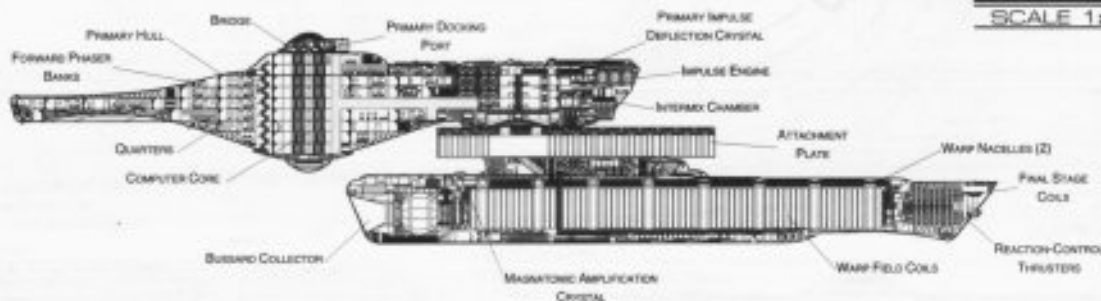


HEAVY TRANSPORT / TUG

HENSLEY CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Heavy Trans/Tug

Category: Trans /Tug

Class: Hensley

Type: Class 1

Model: MK-Va

Naval Construction Contract: 4300

Number Proposed: 90

Number Constructed: 70

Number in Service: 69

Number Lost: 1

Dimensions:

Overall Dimensions (Meters)

Length: 234.74 m

Width: 141.72 m

Height: 54.89 m

Primary Hull Dimensions (Meters)

Length: 149.42 m

Width: 141.72 m

Height: 32.94 m

Secondary Hull Dimensions (Meters)

Length: N/A

Width: N/A

Height: N/A

Warp Unit Dimensions (Meters)

Length: 154.81 m

Width: 12.63 m

Height: 18.32 m

Displacement (Metric Tons)

Light: 192031 mt

Standard: 206740 mt

Full Load: 229871 mt

Performance:

Impulse Units: Dual Unit (IP186E5-MN)

Impulse Engine Output: 7.8×10^{12} W

Impulse Power Index: 0.96

Max Cruising: C

Acceleration Rate:

0.00-0.25 Impulse: 0.208 sec.

0.25-0.50 Impulse: 0.312 sec.

0.50-0.75 Impulse: 0.417 sec.

0.75-Full Impulse: 0.521 sec.

Warp Units: 2 Nacelle Units (SW52/1-SRG)

Warp Engine Output: 1.2×10^{15} W

Warp Power Index: 0.96

Optimum Speed: 4

Max. Safe Cruising: 6

Emergency Speed: 8

Max. Speed: 9.19

Destructive Speed: 9.29

Acceleration Power: 3

Acceleration Times:

Warp 1 - Warp 2: 0.208 sec.

Warp 2 - Warp 3: 0.333 sec.

Warp 3 - Warp 4: 1.26 sec.

Warp 4 - Warp 5: 1.812 sec.

Warp 5 - Warp 6: 1.937 sec.

Warp 6 - Warp 7: 2.093 sec.

Warp 7 - Warp 8: 2.687 sec.

Warp 8 - Warp 9: 3.843 sec.

Warp 9 - Warp 9.5: 8.54 sec.

Warp 9.5 - Warp 9.75: 9.894 sec.

Warp 9.75 - Warp 9.9: 20.517 sec.

Duration (Years)

Standard: 4 Years

Maximum: 16 Years

Std. Ships Complement: 451

Officers: 77

Crew (Ensign Grade): 374

Troops: 0

Passengers: 50

Emergency condition: + 637

Medical Facilities:

Doctors: 3

Medical Staff: 7

Operating Rooms: 2

Beds: 16

Laboratories: 8

Transporters Total: 11

1 Person: 0

2 Person: 0

6 Person: 4

12 Person: 0

22 Person: 4

Small Cargo: 1

Medium Cargo: 1

Large Cargo: 0

Super Cargo: 0

Beigs: 19

Replicators: 16

T tractor Beams: 1

Toy Capacity: 3.67×10^6 mt

Max Range: 1.68×10^5 km

Cargo Specification:

Standard Cargo Units: 291

Cargo Capacity: 14550 mt

Shuttlecraft Specifications:

Docking Ports: 3

Shuttlecraft Bays Total: 1

Small Bay: 1

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 16

Work Bees: 1

Travel Pods: 1

Aquatic Shuttle: 1

Light Shuttle: 0

Standard Shuttle: 1

Heavy Shuttle: 1

Cargo Shuttle: 1

Assault Shuttle: 2

Killer Bees: 2

Light Fighter: 2

Fighter: 2

Heavy Fighter: 2

Lifeboats: 46

Turbolift (8 person): 26

Lifeboat (10 person): 14

Lifeboat (20 person): 6

Lifeboat (30 person): 0

Cloaking Devices: 0

Sensor Index Values:

Planetary Survey: 0.97

Stellar Survey: 0.86

Short Range: 0.88

Long Range: 0.88

Navigation: 1.12

Special: 1.94

Computers: 2

Type: Daystrom Duotronic 1-IIIc

Type: Daystrom Duotronic 1-IIp

ECM Index: 1.12

Shield Rating:

Shield Index: 0.45

Holdoff Power: 1.53×10^{12} W

Refresh Rate: 4.35×10^{11} W

Breakdown Rate: 5.22×10^{11} W

Shield Dimensions (Meters)

Length: 352.1 m

Width: 212.6 m

Height: 82.3 m

Weapons:

Phaser Power Index: 0.64

Photon Power Index: 0.00

Vessel Power Index: 0.32

Weapon Placement:

Beam (Phasers) Total: 6 banks 2 each

Output: 5×10^{11} W 2.5×10^{11} W

Range: 2.5×10^6 km

Rate of Fire: 30 ppm/Cont.

Forward Banks: 2

Rear Banks: 0

Port Banks: 2

Starboard Banks: 2

Upper Banks: 0

Lower Banks: 0

Beam (MegaPhasers) Total: 0

Output: N/A

Range: N/A

Rate of Fire: N/A

Forward/Rear Banks: 0

Port/Starboard Banks: 0

Upper/Lower Banks: 0

Torpedoes (Photon) Total: N/A

Stock: N/A

Range: N/A

Output: N/A

Rate of Fire: N/A

Forward Bay: 0

Rear Bay: 0

Port Bay: 0

Starboard Bay: 0

Upper Bay: 0

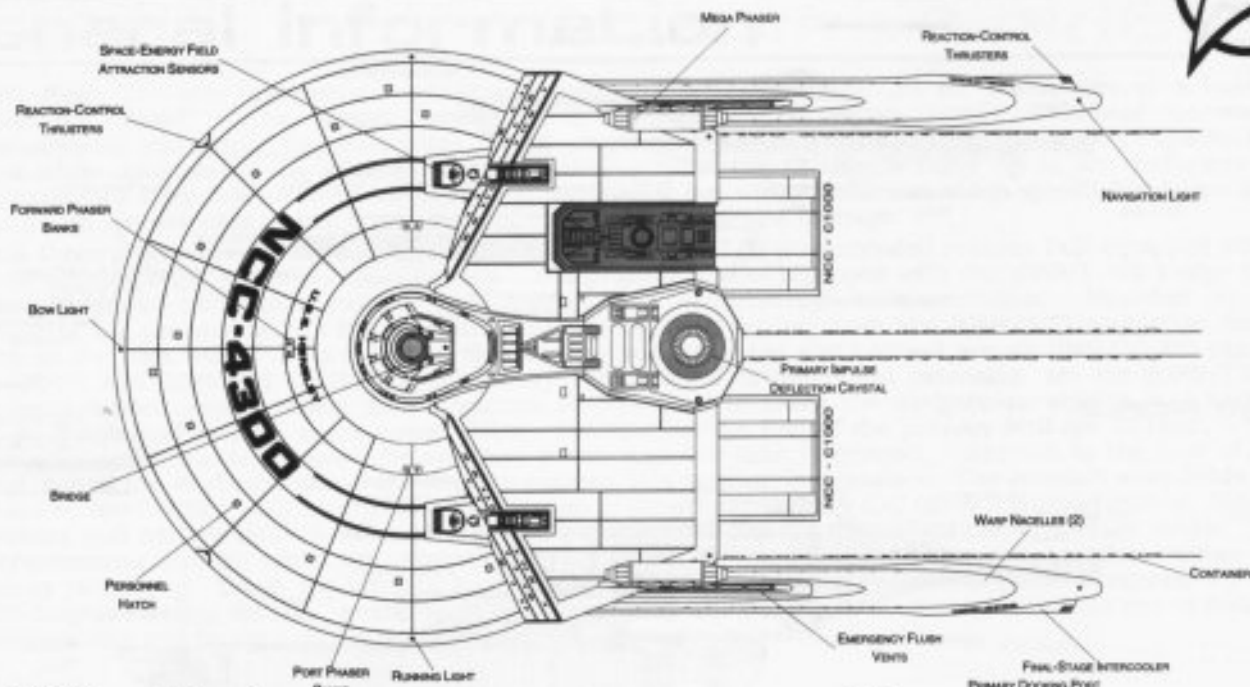
Lower Bay: 0

FEDERATION VESSEL

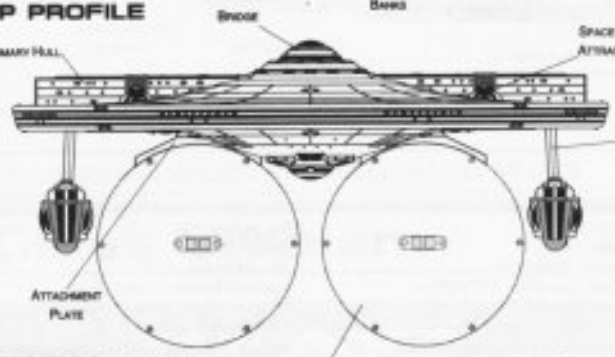
HEAVY TRANSPORT / TUG



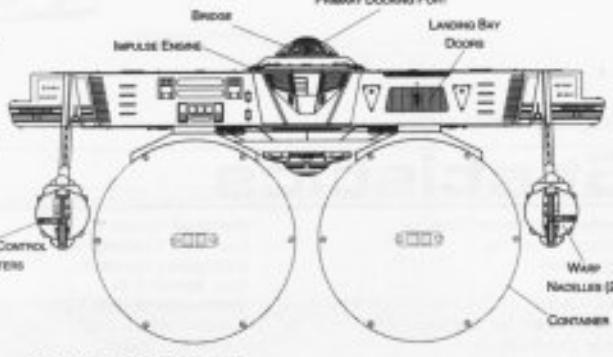
HENSLEY CLASS



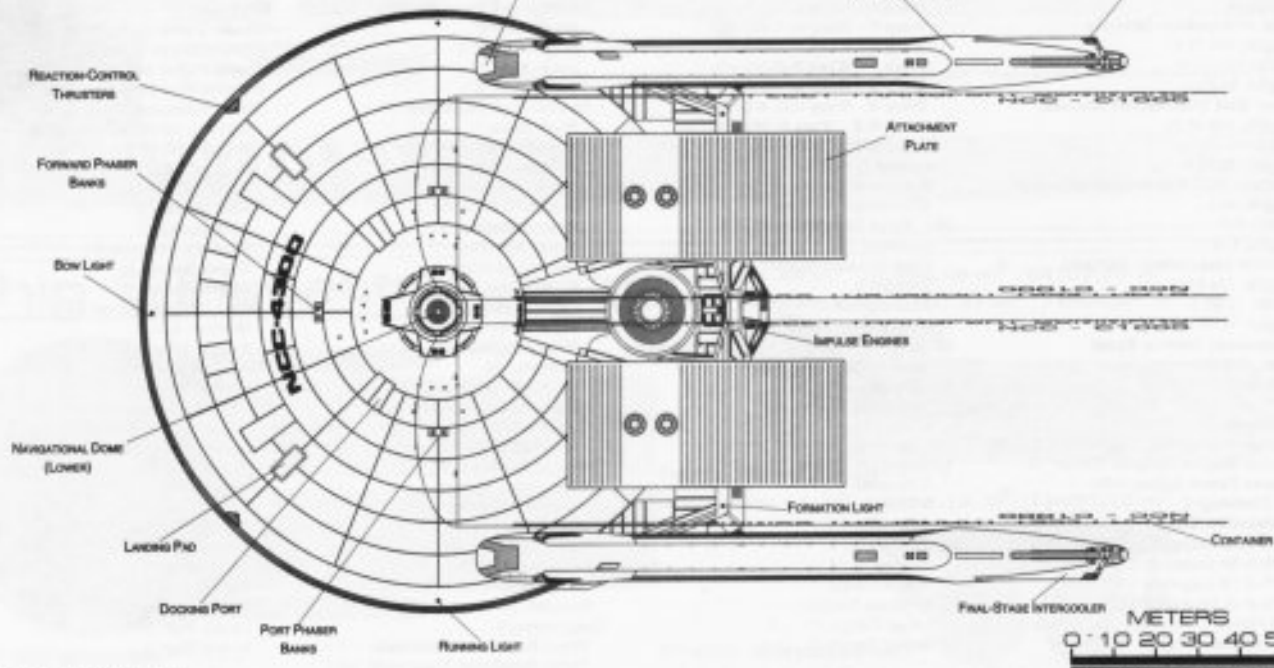
TOP PROFILE



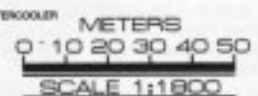
FRONT PROFILE



REAR PROFILE



BOTTOM PROFILE



FEDERATION VESSEL



HEAVY TRANSPORT / TUG

Ship Names

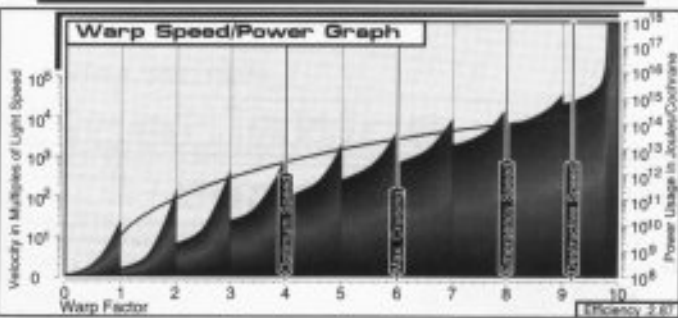
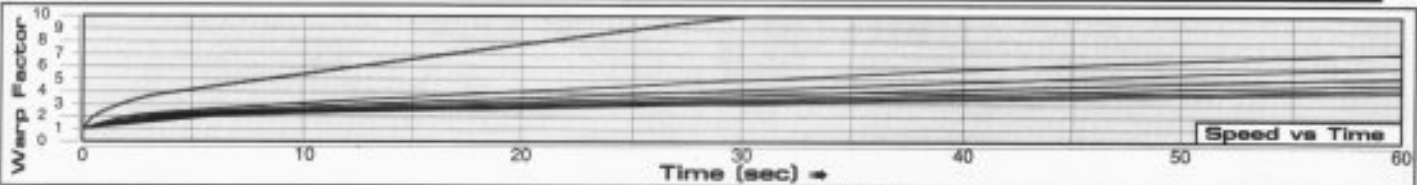
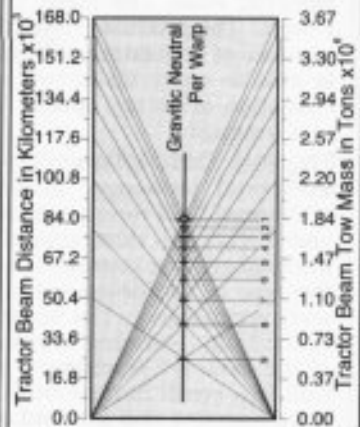
THE FOLLOWING SHIPS OF THE MK-Vs CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2268.6

ABERDEEN ·NCC-4357	DUNLAP ·NCC-4372***	MANSFIELD ·NCC-4370	STANNERS ·NCC-4334
ALLAWAY ·NCC-4310	EICHHORST ·NCC-4306	MAYERS ·NCC-4387***	STAR OF INDIA ·NCC-4362
ALLEGOOD ·NCC-4302	FLEICHMAN ·NCC-4365	McCULLOUGH ·NCC-4304	STODDARD ·NCC-4379***
ALLISON ·NCC-4381***	FRANCISCO ·NCC-4363	McGONOGLE ·NCC-4323	STRIPLING ·NCC-4366
ARMIN ·NCC-4338	FROHWEIN ·NCC-4307	MEAD ·NCC-4349	SYLVESTER ·NCC-4325
BOHEME ·NCC-4328	FULLER ·NCC-4305	MEDLEY ·NCC-4306	TERRY ·NCC-4360
BOSNEA ·NCC-4369	GRANT ·NCC-4312	MEELER ·NCC-4320	TORRES ·NCC-4322
BOYET ·NCC-4373***	GREUER ·NCC-4327	MORAVIA ·NCC-4335	USHER ·NCC-4343
BREMEN ·NCC-4345	GRIZZLY ·NCC-4395***	MOSELY ·NCC-4316**	VAN WINKLE ·NCC-4332
BROOKS ·NCC-4359	HARVEY ·NCC-4317	NATHAN ·NCC-4341	VOYTEK ·NCC-4374***
BURKES ·NCC-4339	HENBECK ·NCC-4380***	PALERMO ·NCC-4368	WALTMAN ·NCC-4331
BURNSIDE ·NCC-4313	HENSLEY ·NCC-4300*	PARKS ·NCC-4388***	WELCH ·NCC-4371***
CALDWELL ·NCC-4394***	HULLER ·NCC-4389***	PRIDMORE ·NCC-4382***	WHITE SANDS ·NCC-4351
CASEBOLT ·NCC-4318	IAN ·NCC-4346	PRUSSIA ·NCC-4348	WHORTON ·NCC-4391***
CASSIDY ·NCC-4388***	ICCABOD ·NCC-4340	PYLE ·NCC-4384***	WILSON ·NCC-4385***
CASTILLE ·NCC-4337	ISABELLA ·NCC-4354	QUARLES ·NCC-4350	WISELEY ·NCC-4321
CATHCART ·NCC-4364	JASPER ·NCC-4326	QUINTELA ·NCC-4375***	WOHLFELT ·NCC-4315
CHAFFE ·NCC-4335	JOETT ·NCC-4333	RABAH ·NCC-4311	WOODSINGER ·NCC-4309
CHASE ·NCC-4361	JONES ·NCC-4356	REASORE ·NCC-4353	YAUDE ·NCC-4352
CHEFFER ·NCC-4329	KAUFMANN ·NCC-4301	RIDENOUR ·NCC-4367	YOUNGBLOOD ·NCC-4378***
CHELSEA ·NCC-4342	KENNEDY ·NCC-4303	ROGERS ·NCC-4347	ZIERDT ·NCC-4314
COPELAND ·NCC-4358	KINGSLEY ·NCC-4344	RUBLE ·NCC-4324	
DAGGETT ·NCC-4377***	KINNELLY ·NCC-4383***	SANDRONI ·NCC-4390***	
DEERE ·NCC-4319	LI-CHO ·NCC-4376***	SOLAR ·NCC-4330	
DEWETT ·NCC-4382***	LONDON ·NCC-4393***	STAIRIEME ·NCC-4308	

*CLASS SHIP. **LOST IN THE LINE OF DUTY. ***PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

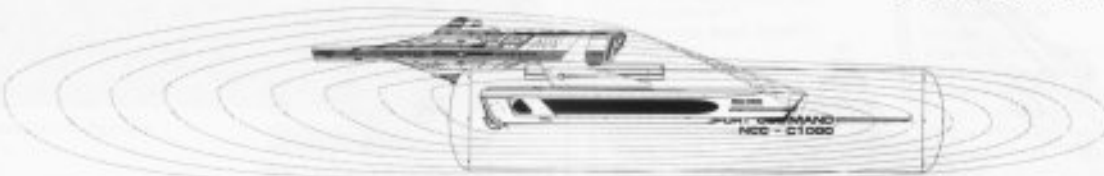
Primary Tractor Beam Load Calculator



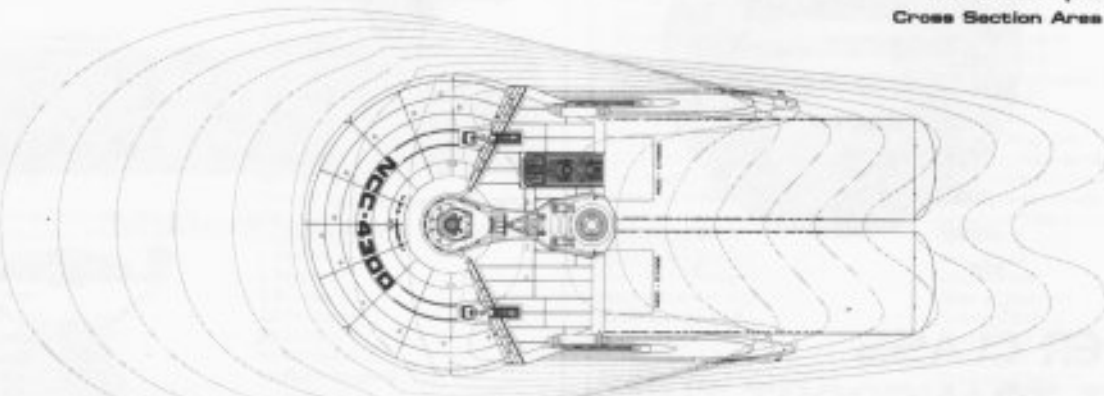
Field Length 525.78m
Field Width 202.80m
Field Height 85.76m



Front Warp Field Profile
Cross Section Area 14814.19 m²



Port Warp Field Profile
Cross Section Area 32481.35 m²



Top Warp Field Profile
Cross Section Area 80815.88 m²

HENSLEY CLASS

FEDERATION VESSEL

LIGHT TRANSPORT / TUG



FISHER CLASS

General Information

Specific Role: The Light Transport/Tug is of modular design and slightly resembles the Oberth class research vessel. The modular design is an attempt to reduce the vessel's overall construction and operational cost. A small number of passenger accommodations are located where the laboratories would be on the research vessel. The tug is able to carry up to two containers by manipulating its warp field to cover the additional containers, but at a reduction of its top speed. The tug is also equipped with a heavy duty tractor beam designed for additional range and tonnage.

Physical Description: The Light Transport/Tug incorporates the (SH103/F-T1) hull which is equipped with additional passenger accommodations. The transport is equipped with a (BF5/F-L2) bridge that contains additional field manipulation instrumentation. On the lower part of the hull is the (SM15/2U) main sensor array and (DN2/1A) navigational dome. Positioned forward of the bridge is a (BP2/30-2C) phaser bank. Slung underneath the primary hull by two (DT/30-15A) connecting dorsals is a (AP3/T-2) container attachment plate. At the rear of the primary hull are (ISR10E/2-AC) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessel's warp fields are generated by two (SU38/1-2CA) warp nacelles attached to each side of the hull. Running horizontally between the nacelles is the (M20/1-2A) intermix chamber. Positioned to the rear of the hull, for emergency jettisoning, are the (AM3/15-2C) matter/antimatter storage tanks. On the front of the hull is a small hangar deck. In the event of an emergency, the primary hull can separate from one or both of the warp nacelles and proceed on the remaining nacelle or impulse power.

For additional detail refer to Datasheet MVA-1

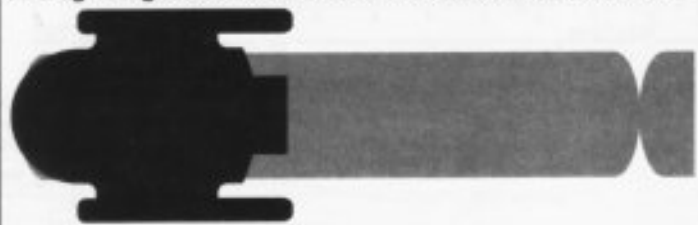
Class Emblem



**FISHER CLASS
LIGHT TRANSPORT TUG**

Ship Silhouettes

Total Target Area 11401.83 m² 30778.90 m² 53106.34 m²
Average Target Area 3800.54 m² 10259.97 m² 17702.11 m²



Top Silhouette
Area 6788.62 m² 13445.71 m² 24606.93 m²



Port Silhouette
2069.61 m² 12988.05 m² 24151.27 m²



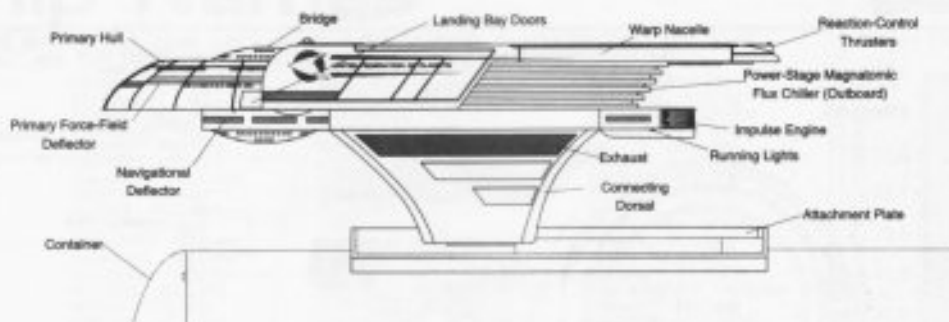
Front Silhouette
2545.4 m² 4348.14 m² 4348.14 m²

FEDERATION VESSEL

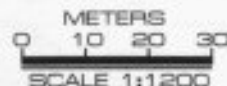
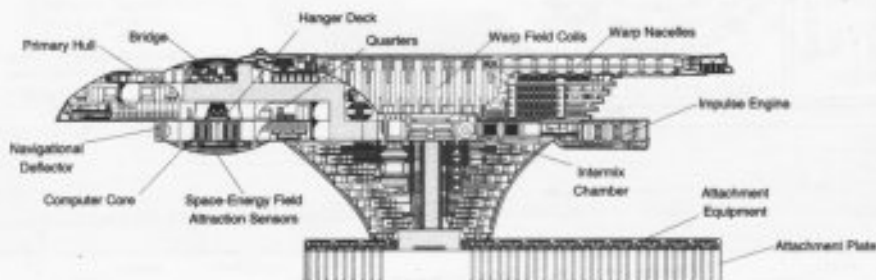


LIGHT TRANSPORT / TUG

FISHER CLASS



PORT PROFILE



CROSS SECTION

Statistics

Classification: Light Trans/Tug
Category: Trans /Tug
Class: Fisher
Type: Class 2
Model: MK2-1a
Naval Construction Contract: 900
Number Proposed: 100
Number Constructed: 92
Number in Service: 90
Number Lost: 2
Dimensions:
Overall Dimensions (Meters)
 Length: 107.36 m
 Width: 80.63 m
 Height: 38.65 m
Primary Hull Dimensions (Meters)
 Length: 93.97 m
 Width: 76.93 m
 Height: 15.1 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 82.04 m
 Width: 8.87 m
 Height: 12.28 m
Displacement (Metric Tons)
 Light: 19240 mt
 Standard: 20614 mt
 Full Load: 23012 mt
Performance:
Impulse Units: Dual Unit (ISR10E/2-AC)
Impulse Engine Output: 7.8×10^{13} W
Impulse Power Index: 9.58
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.021 sec.
 0.25-0.50 Impulse: 0.031 sec.
 0.50-0.75 Impulse: 0.042 sec.
 0.75-Full Impulse: 0.052 sec.
Warp Units: 2 Nacelle Units (SU38/1-2CA)
Warp Engine Output: 6×10^{14} W
Warp Power Index: 4.79

Optimum Speed: 4
Max. Safe Cruising: 5
Emergency Speed: 7
Max. Speed: 8
Destructive Speed: 8.5
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.042 sec.
 Warp 2 - Warp 3: 0.067 sec.
 Warp 3 - Warp 4: 0.253 sec.
 Warp 4 - Warp 5: 0.363 sec.
 Warp 5 - Warp 6: 0.388 sec.
 Warp 6 - Warp 7: 0.419 sec.
 Warp 7 - Warp 8: 0.538 sec.
 Warp 8 - Warp 9: 0.77 sec.
 Warp 9 - Warp 9.5: 1.711 sec.
 Warp 9.5 - Warp 9.75: 1.983 sec.
 Warp 9.75 - Warp 9.9: 4.111 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 50
Officers: 9
Crew (Ensign Grade): 42
Troops: 0
Passengers: 5
Emergency condition: + 70
Medical Facilities:
Doctors: 1
Medical Staff: 2
Operating Rooms: 1
Beds: 5
Laboratories: 1
Transporters Total: 1
 1 Person: 0
 2 Person: 0
 6 Person: 0
 12 Person: 0
 22 Person: 0
 Small Cargo: 0
 Medium Cargo: 0
 Large Cargo: 0
 Super Cargo: 0

Brigs: 2
Replicators: 2
TraCTOR Beams: 1
 Tow Capacity: 1.41×10^6 mt
 Max Range: 1.22×10^5 km
Cargo Specification:
 Standard Cargo Units: 28
 Cargo Capacity: 1400 mt
Shuttlecraft Specifications:
 Docking Ports: 1
 Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 16
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 2
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
Lifeboats: 5
 Turbolift (8 person): 3
 Lifeboat (10 person): 1
 Lifeboat (20 person): 1
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.97
 Stellar Survey: 0.86
 Short Range: 0.98
 Long Range: 0.88
 Navigation: 1.12
 Special: 1.94
Computers: 2
 Type: Daystrom Duotronic 1-11y
 Type: Daystrom Duotronic 1-11a

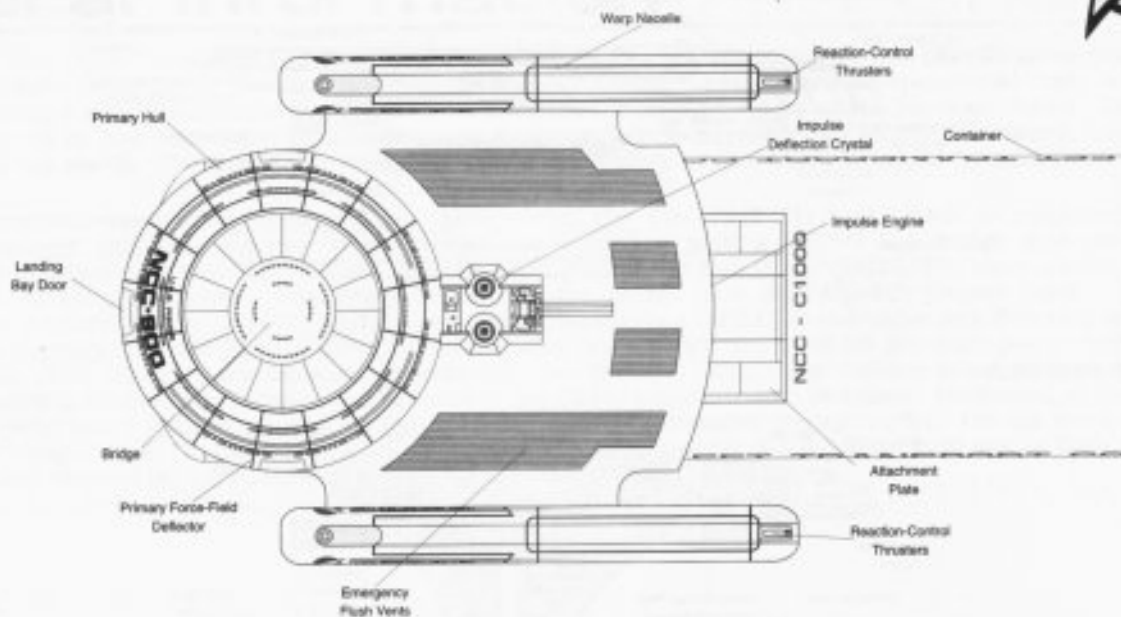
ECM Index: 1.12
Shield Rating:
 Shield Index: 90.44
 Holdoff Power: 3.08×10^{13} W
 Refresh Rate: 8.69×10^{12} W
 Breakdown Rate: 1.04×10^{13} W
Shield Dimensions (Meters)
 Length: 161 m
 Width: 120.9 m
 Height: 58 m
Weapons:
Phaser Power Index: 3.19
Photon Power Index: 0.00
Vessel Power Index: 1.60
Weapon Placement:
Beam (Phasers) Total: 3 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
 Forward Banks: 1
 Rear Banks: 0
 Port Banks: 1
 Starboard Banks: 1
 Upper Banks: 0
 Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
 Forward/Rear Banks: 0
 Port/Starboard Banks: 0
 Upper/Lower Banks: 0
Torpedoes (Photons) Total: N/A
 Stock: N/A
 Range: N/A
 Output: N/A
 Rate of Fire: N/A
 Forward Bay: 0
 Rear Bay: 0
 Port Bay: 0
 Starboard Bay: 0
 Upper Bay: 0
 Lower Bay: 0

FEDERATION VESSEL

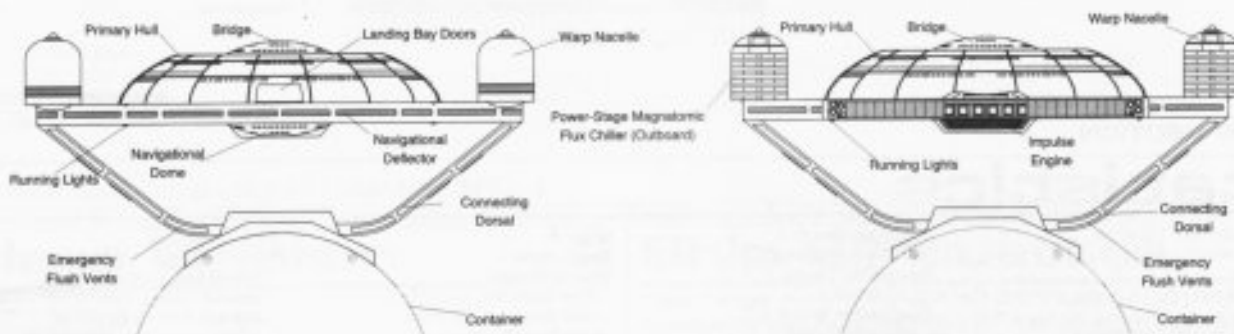
LIGHT TRANSPORT / TUG



FISHER CLASS

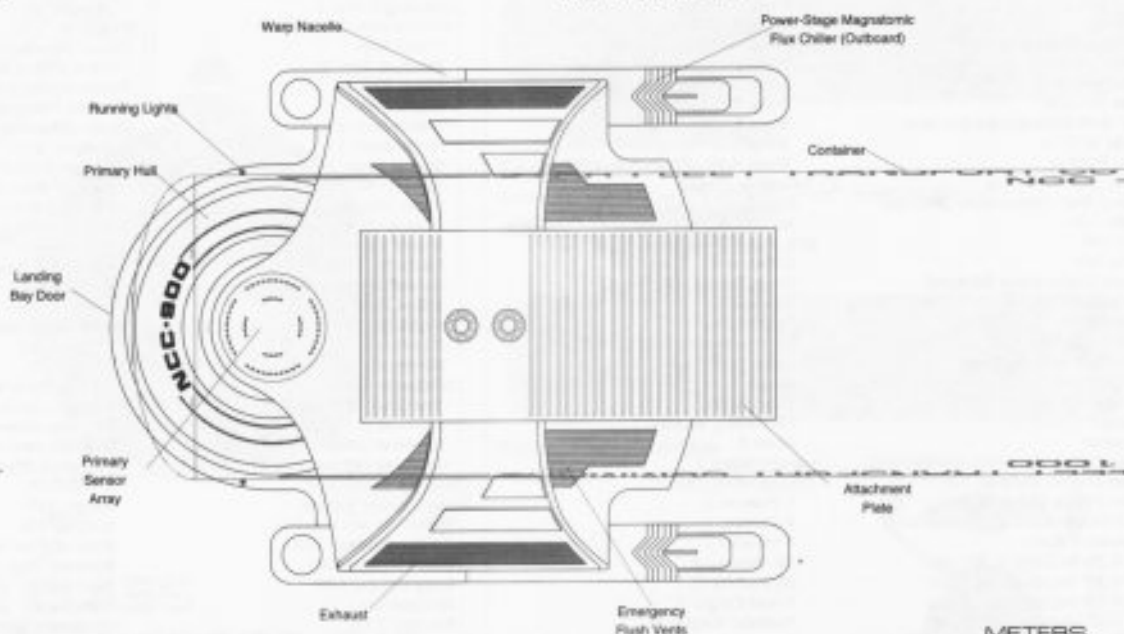


TOP PROFILE



FRONT PROFILE

REAR PROFILE



BOTTOM PROFILE

METERS
0 - 10 20 30
SCALE 1:1200

FEDERATION VESSEL



LIGHT TRANSPORT / TUG

Ship Names

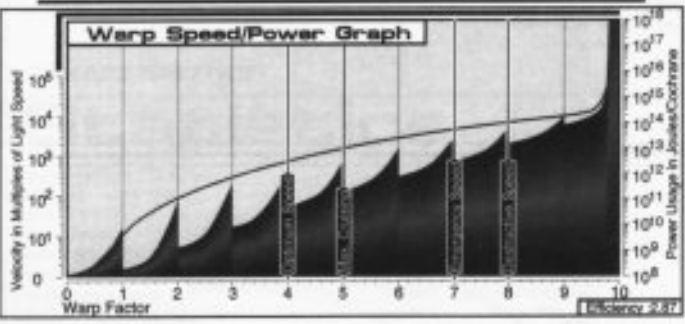
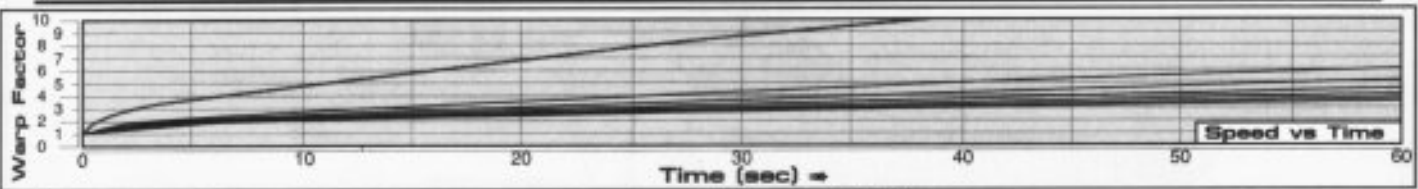
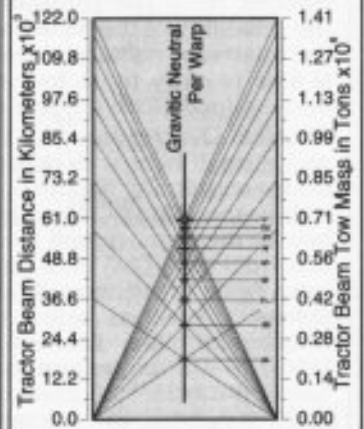
THE FOLLOWING SHIPS OF THE MK2-1a CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2267.6

ACHATZ •NCC-877	FEARS •NCC-948	MEEFORD •NCC-981	SHOOK •NCC-931
ADABI •NCC-901	FEHLANDET •NCC-834	MONRUS •NCC-995***	SCLAUSON •NCC-907
ADAMUS •NCC-941	FISHER •NCC-900*	MORPHIELD •NCC-912	SNOWDEN •NCC-902
ALLAN •NCC-969	FLANNERY •NCC-956	NEASE •NCC-949	STAKER •NCC-970
ARCHIBALD •NCC-933	FOHNER •NCC-968	NEWTER •NCC-951	STOLTZ •NCC-982
AUGUSTUS •NCC-925	GAINES •NCC-914	O'BRIEN •NCC-988	STOVER •NCC-973
BAINSWORTH •NCC-943	GALABOFF •NCC-923	O'FLYNN •NCC-930	STUBNO •NCC-926
BANSIYA •NCC-910	GENTZ •NCC-997***	PAJUNEN •NCC-919	TENDERALL •NCC-989
BARABUS •NCC-971	GIVENS •NCC-957	PALADRO •NCC-927	TIPPEWA •NCC-987
BARCLAY •NCC-946	GOZA •NCC-905	PAPE •NCC-913	TREFETHEN •NCC-947
BELLAMY •NCC-904	HAMSTEIR •NCC-903	PATIENCE •NCC-986	TUMLIN •NCC-950
BOBBETS •NCC-974	HANCOCK •NCC-996***	PATRICK •NCC-940	TURRI •NCC-961
BRAZIL •NCC-953	HASTINGS •NCC-967	PENDERGRASS •NCC-921	USELKAIR •NCC-959
CATHORN •NCC-999***	HODGES •NCC-909	PINEVALE •NCC-980	VANDERGRIFT •NCC-962
CHIEN •NCC-937	HOING •NCC-942	PORFILLIO •NCC-958	VINCENT •NCC-991
COBB •NCC-939	HOOTEN •NCC-922	PRESTGUARD •NCC-945	WAGNER •NCC-992
CRONE •NCC-932	HUBERT •NCC-928	QUEENNEY •NCC-944	WENTWORTH •NCC-916**
CRUS •NCC-918	HURST •NCC-963	RAJNAR •NCC-960	WHITLOCK •NCC-938
CUMBIE •NCC-915	INGRAD •NCC-975	RAWLINS •NCC-954	WHITTAKER •NCC-908
CURTIN •NCC-984	JOINER •NCC-955	REEVES •NCC-993***	WILHEIGHT •NCC-983
CURVIN •NCC-978	JURENKO •NCC-972	REMY •NCC-936	WINDGATE •NCC-924
DEANDA •NCC-932	KENNIS •NCC-979	SANDWELL •NCC-976	WOODWORTH •NCC-906
DURBIN •NCC-929	LOCHARD •NCC-965	SARVER •NCC-911	YATES •NCC-920
DURCT •NCC-998***	MADIGAN •NCC-990	SHANUSTAS •NCC-994***	YEAGER •NCC-964
EDGAR •NCC-966	MARTINCK •NCC-935	SHAUNESSEY •NCC-985**	ZANA •NCC-917

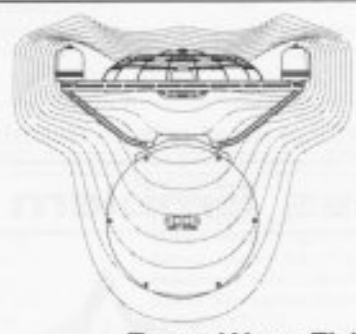
*CLASS SHIP, **LOST IN THE LINE OF DUTY, ***PROPOSED, ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

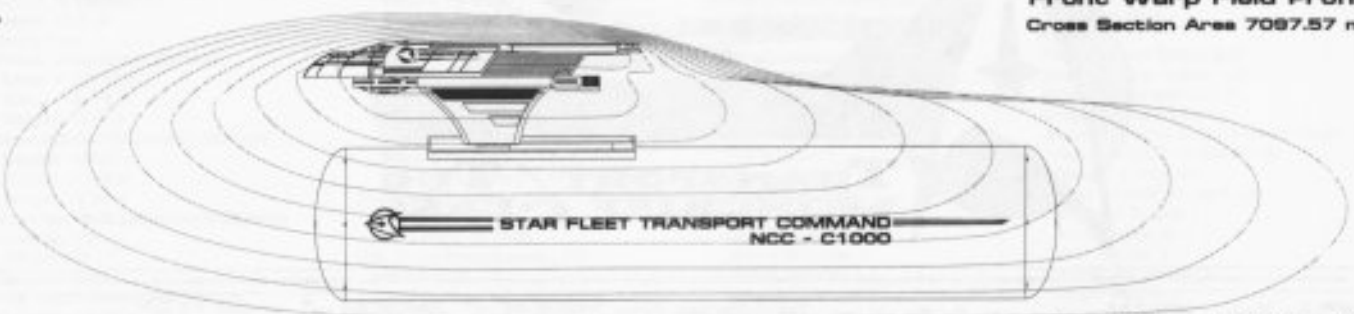
Primary Tractor Beam Load Calculator



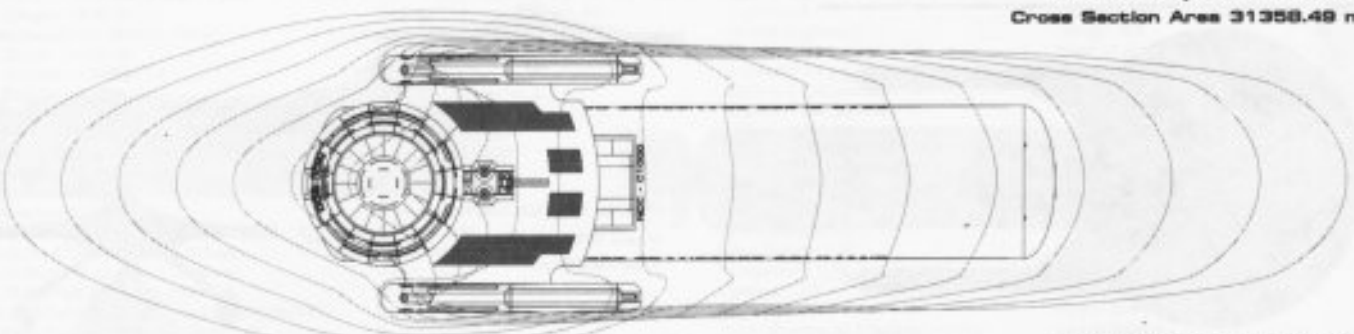
Field Length 425.31m
Field Width 107.04m
Field Height 98.62m



Front Warp Field Profile
Cross Section Area 7097.57 m²



Port Warp Field Profile
Cross Section Area 31358.49 m²



Top Warp Field Profile
Cross Section Area 33988.80 m²

TRANSPORT / TUG



General Information

Specific Role: The Transport/Tug is the Federation's most widely used supply line vessel. Starfleet depends upon the reliability of this vessel since it spends the least amount of time of any starship in port, even when compared to the busiest of military vessels. The Transport/Tug has additional staterooms to accommodate passengers. The tug is able to carry up to four containers by manipulating its warp field, but at a reduction of top speed. The tug is also equipped with a heavy duty tractor beam designed for extra range and tonnage.

Physical Description: The Transport's (PH147/C-C3) primary hull contains additional passenger accommodations and a small hangar deck located on the upper starboard side. The primary hull is equipped with the (BS10/T-E5) bridge containing additional navigation and field manipulation instrumentation. On the lower part of the primary hull is the (SM49/2A) main sensor array and (DN4/2D) navigational dome. Located on the port, starboard and bow of the primary hull (both top and bottom) are six (BP2/30-2C) phaser banks. To the rear of the primary hull are (IRF35E/4-QW) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessels' warp fields are generated by two (SW52/1-5NZ) warp nacelles attached to the primary hull by (DU/35-6Q) support pylons. Attached below the primary hull by the (DU/50-48C) connecting dorsal is a (AP3/T-3) container attachment plate. Located inside the dorsal, for emergency jettisoning, are the (M15/8-2E) intermix chamber and (AM8/36-4U) matter/antimatter storage tanks. Nestled between the dorsal and the attachment plate is a forward facing (PB2/25-10J) photon torpedo bay. In the event of an emergency, one or both nacelles can be jettisoned. Once separated the primary hull can maneuver on the remaining warp nacelle or impulse power for extended periods of time.

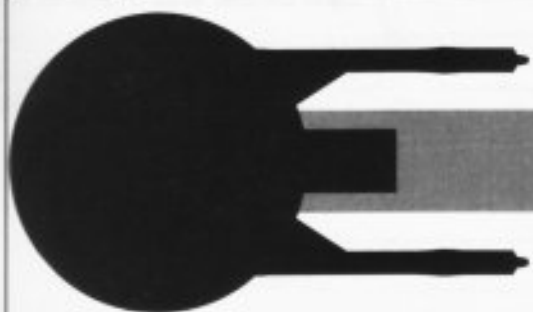
For additional detail refer to Datasheet MVA-2

Class Emblem



Ship Silhouettes

Total Target Area 78205.95 m² 45596.64 m² 60957.12 m²
Average Target Area 25401.98 m² 15198.88 m² 20319.04 m²



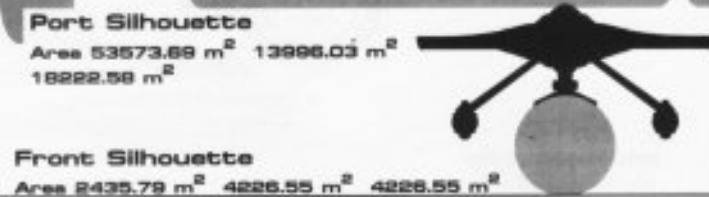
Top Silhouette

Area 20196.47 m² 27374.06 m² 38507.99 m²



Port Silhouette

Area 53573.69 m² 13996.03 m²
18222.58 m²



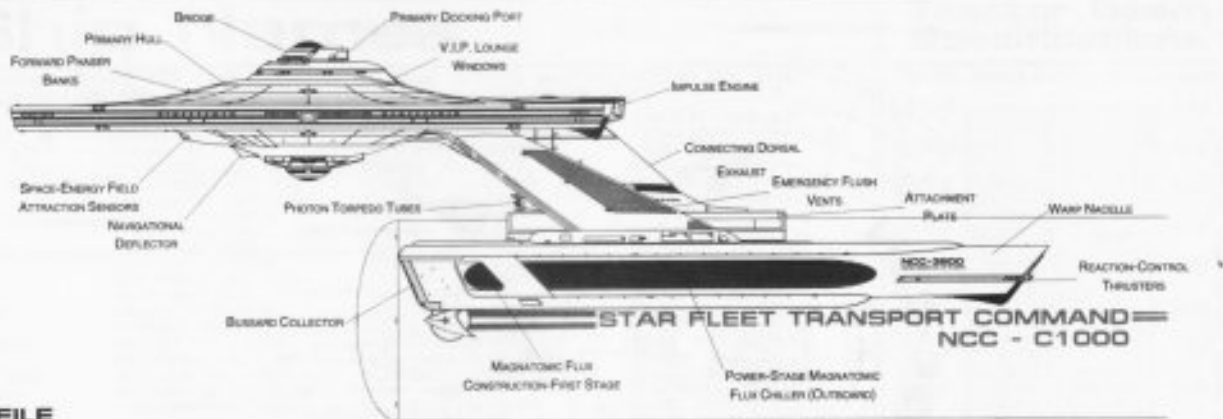
Front Silhouette

Area 2435.79 m² 4226.55 m² 4226.55 m²



TRANSPORT / TUG

MONCRIEF CLASS



PORT PROFILE



METERS
0 10 20 30 40 50
SCALE 1:1600

CROSS SECTION

Statistics

Classification: Trans/Tug
Category: Trans /Tug
Class: Moncrief
Type: Class I
Model: MK-VIIa
Naval Construction Contract: 3800
Number Proposed: 100
Number Constructed: 100
Number in Service: 97
Number Lost: 3
Dimensions:
Overall Dimensions (Meters)
 Length: 247.11 m
 Width: 141.72 m
 Height: 63.97 m
Primary Hull Dimensions (Meters)
 Length: 146.31 m
 Width: 141.72 m
 Height: 32.94 m
Secondary Hull Dimensions (Meters)
 Length: N/A
 Width: N/A
 Height: N/A
Warp Unit Dimensions (Meters)
 Length: 154.81 m
 Width: 12.63 m
 Height: 18.32 m
Displacement (Metric Tons)
 Light: 158634 mt
 Standard: 146388 mt
 Full Load: 163415 mt
Performance:
Impulse Units: Dual Unit (RF35E4-QW)
Impulse Engine Output: 7.6×10^{12} W
Impulse Power Index: 1.35
Max Cruising: C
Acceleration Rate:
 0.00-0.25 Impulse: 0.148 sec.
 0.25-0.50 Impulse: 0.222 sec.
 0.50-0.75 Impulse: 0.296 sec.
 0.75-Full Impulse: 0.371 sec.
Warp Units: 2 Nacelle Units (SWS21-5NZ)
Warp Engine Output: 1.2×10^{15} W
Warp Power Index: 1.35

Optimum Speed: 4
Max. Safe Cruising: 6
Emergency Speed: 7.5
Max. Speed: 9.1
Destructive Speed: 9.2
Acceleration Power: 3
Acceleration Times:
 Warp 1 - Warp 2: 0.148 sec.
 Warp 2 - Warp 3: 0.237 sec.
 Warp 3 - Warp 4: 0.597 sec.
 Warp 4 - Warp 5: 1.289 sec.
 Warp 5 - Warp 6: 1.378 sec.
 Warp 6 - Warp 7: 1.489 sec.
 Warp 7 - Warp 8: 1.912 sec.
 Warp 8 - Warp 9: 2.734 sec.
 Warp 9 - Warp 9.5: 6.077 sec.
 Warp 9.5 - Warp 9.75: 7.04 sec.
 Warp 9.75 - Warp 9.9: 14.599 sec.
Duration (Years)
 Standard: 4 Years
 Maximum: 16 Years
Std. Ships Complement: 339
 Officers: 58
 Crew (Ensign Grade): 281
 Troops: 0
 Passengers: 40
 Emergency condition: + 482
Medical Facilities:
 Doctors: 3
Medical Staff
 Operating Rooms: 2
 Beds: 16
Laboratories: 6
Transporters Total: 8
 1 Person: 0
 2 Person: 0
 6 Person: 3
 12 Person: 0
 22 Person: 3
 Small Cargo: 1
 Medium Cargo: 1
 Large Cargo: 0
 Super Cargo: 0

Brigs: 13
Replicators: 11
Tractor Beams: 1
 Tow Capacity: 4.83×10^6 mt
 Max Range: 1.52×10^6 km
Cargo Specification:
 Standard Cargo Units: 187
 Cargo Capacity: 9350 mt
Shuttlecraft Specifications:
 Docking Ports: 3
Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 16
 Work Bees: 1
 Travel Pods: 1
 Aquatic Shuttle: 1
 Light Shuttle: 0
 Standard Shuttle: 1
 Heavy Shuttle: 1
 Cargo Shuttle: 1
 Assault Shuttle: 2
 Killer Bees: 2
 Light Fighter: 2
 Fighter: 2
 Heavy Fighter: 2
 Lifeboats: 34
 Turbolift (8 person): 18
 Lifeboat (10 person): 11
 Lifeboat (20 person): 5
 Lifeboat (30 person): 0
Cloaking Devices: 0
Sensor Index Values:
 Planetary Survey: 0.97
 Stellar Survey: 0.86
 Short Range: 0.98
 Long Range: 0.85
 Navigation: 1.12
 Special: 1.94
Computers: 2
 Type: Daystrom Duotronic 1-IIIu
 Type: Daystrom Duotronic 1-IIj

ECM Index: 1.12
Shield Rating:
Shield Index: 0.90
Holdoff Power: 2.15×10^{12} W
Refresh Rate: 6.12×10^{11} W
Breakdown Rate: 7.34×10^{11} W
Shield Dimensions (Meters)
 Length: 370.7 m
 Width: 212.6 m
 Height: 96 m
Weapons:
Phaser Power Index: 0.90
Photon Power Index: 0.00
Vessel Power Index: 0.45
Weapon Placement:
Beam (Phasers) Total: 6 banks 2 each
 Output: 5×10^{11} W 2.5×10^{11} W
 Range: 2.5×10^6 km
 Rate of Fire: 30 ppm/Cont.
Forward Banks: 2
Rear Banks: 0
Port Banks: 2
Starboard Banks: 2
Upper Banks: 0
Lower Banks: 0
Beam (MegaPhasers) Total: 0
 Output: N/A
 Range: N/A
 Rate of Fire: N/A
Forward/Rear Banks: 0
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Torpedoes (Photon) Total: N/A
 Stock: N/A
 Range: N/A
 Output: N/A
 Rate of Fire: N/A
Forward Bay: 1
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

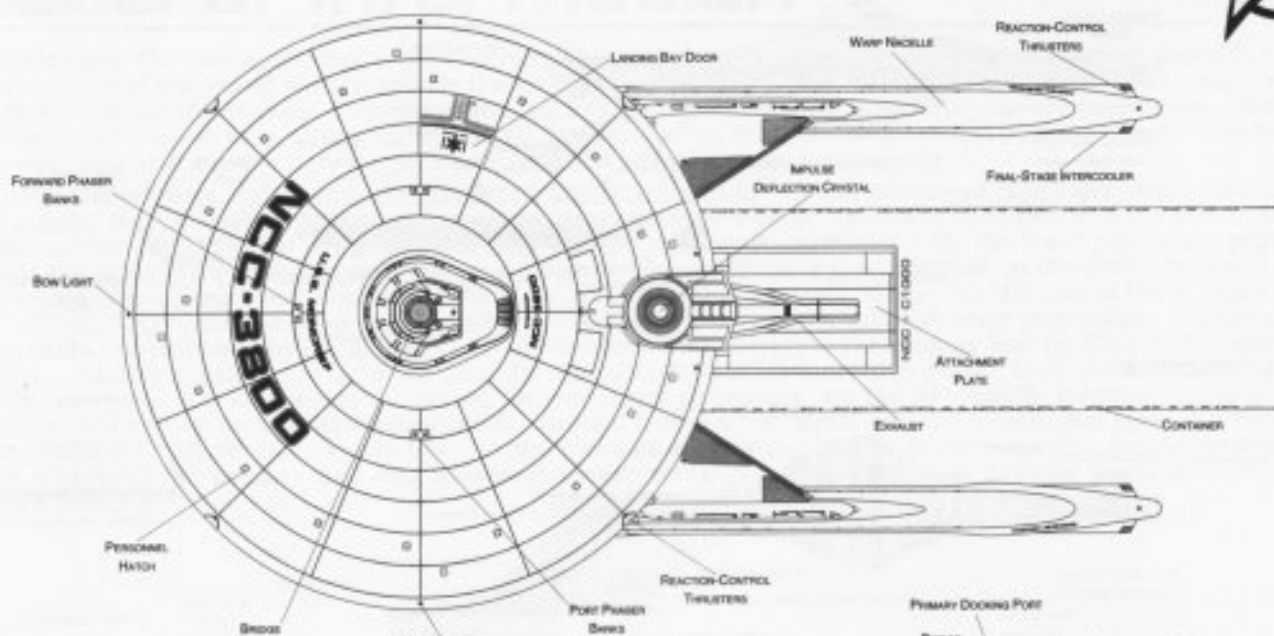
FEDERATION VESSEL

TRANSPORT / TUG

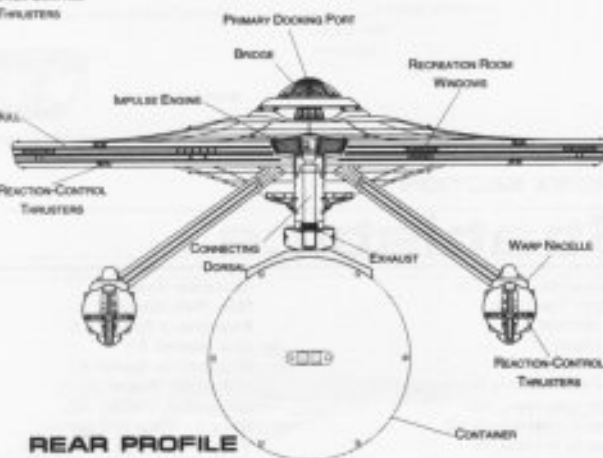
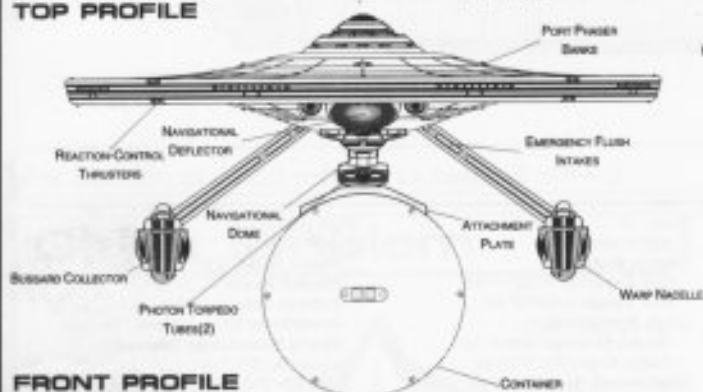


MONCRIEF CLASS

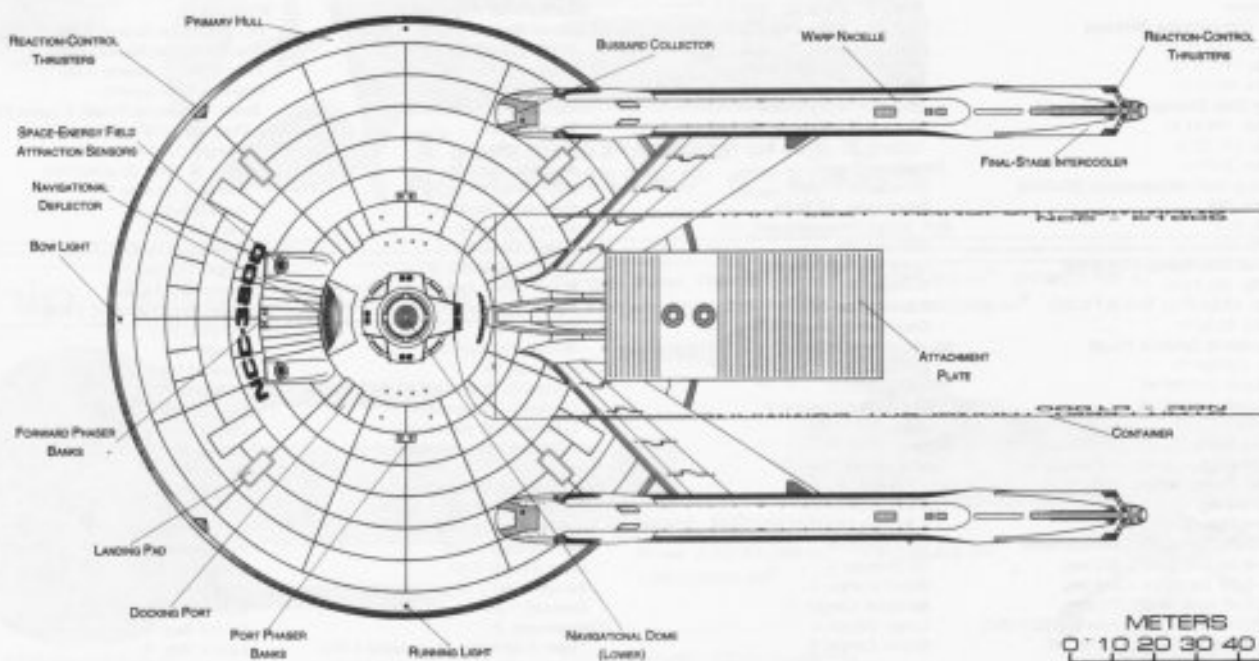
FEDERATION VESSEL



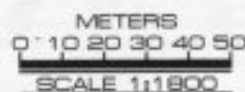
TOP PROFILE



REAR PROFILE



BOTTOM PROFILE





TRANSPORT / TUG

Ship Names

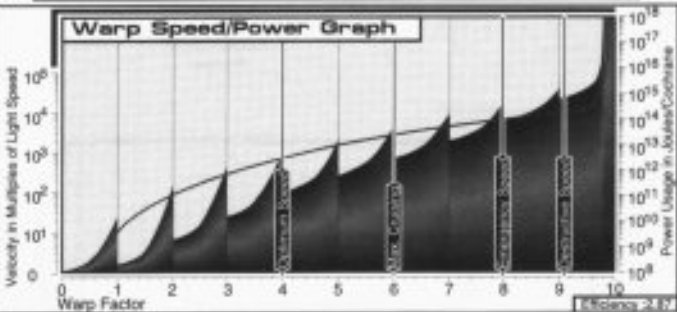
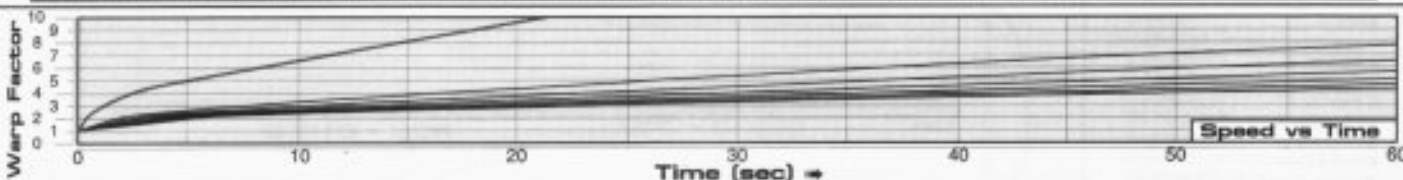
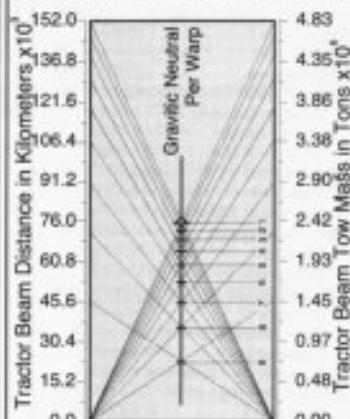
THE FOLLOWING SHIPS OF THE MK-VIa CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2266.7

AIRY •NCC-3842	DREYER •NCC-3899	JEFFREY •NCC-3835	PTOLEMY •NCC-3801
AL RASHID •NCC-3802	EDDINGTON •NCC-3845	KAULA •NCC-3889	PYTHAGORAS •NCC-3812
AMBARTSUMIAN •NCC-3817	ENCKE •NCC-3859	KEPLER •NCC-3816	REBER •NCC-3882
ANAXAGORAS •NCC-3803	ERATOSTHENES •NCC-3807	KIDINNU •NCC-3825	RICCIOLI •NCC-3823
ANAXIMANDER •NCC-3804	FLAMARION •NCC-3818	KLEPSTRA •NCC-3862	RITTENHOUSE •NCC-3851
APIAN •NCC-3896	FRACASTOR •NCC-3872	KRUGER •NCC-3871	ROSS •NCC-3865
ARISTARCHUS •NCC-3805	GAILLOT •NCC-3832	KUIPER •NCC-3836	SABINE •NCC-3879
BAADE •NCC-3855	GALLEI •NCC-3808	LAPLACE •NCC-3878	SAVARY •NCC-3839
BAYER •NCC-3869	GALLE •NCC-3866	LEAVITT •NCC-3849	SCHNEIDER •NCC-3893
BIELA •NCC-3884	GAUTIER •NCC-3846	LEVERRIER •NCC-3828	SCHIAPARELLI •NCC-3819
BONDI •NCC-3843	GOLDRICKE •NCC-3858	LOCKYER •NCC-3890	SCHMIDT •NCC-3890
BRAHE •NCC-3821	HALE •NCC-3873	LUYTEN •NCC-3829	SECCHI •NCC-3852
BROUWER •NCC-3897	HALLEY •NCC-3833	MESSIER •NCC-3830	SHKLOVSKY •NCC-3886
CAMPBELL •NCC-3856	HAYASHI •NCC-3887	MITCHELL •NCC-3863	STRUVE •NCC-3840
CARRINGTON •NCC-3870	HENCKE •NCC-3847	MONCRIEF •NCC-3800*	SWIFT •NCC-3894
CASSINI •NCC-3824	HERSCHELL •NCC-3860	NEWCOMB •NCC-3877	THALES •NCC-3813
CHAMBERLAIN •NCC-3880	HEVELIUS •NCC-3814	NEWTON •NCC-3822	TOMBAUGH •NCC-3853
CHALUENET •NCC-3844	HIPPARCHUS •NCC-3809	OORT •NCC-3807	TOSCANELLI •NCC-3867
CLARK •NCC-3898	HIRAYAMA •NCC-3874**	PALUTZSCH •NCC-3891	ULUGH BEG •NCC-3810
COLUMBO •NCC-3857	HOLDEN •NCC-3834	PEALE •NCC-3850	VAN DE KAMP •NCC-3881
COPERNICUS •NCC-3815	HUBBARD •NCC-3888	PHILOLOUS •NCC-3811**	VOGEL •NCC-3841
DESLANDRES •NCC-3820	HUBBLE •NCC-3848	PIAZZI •NCC-3827	VON ZACH •NCC-3882
DOLLFUS •NCC-3885	HUMANSON •NCC-3801	PICKERING •NCC-3854	WALKER •NCC-3895
DONATI •NCC-3825	IBN DAUD •NCC-3806	POPPER •NCC-3878	WOLASTON •NCC-3854
DOPPLER •NCC-3831**	JANSKI •NCC-3875	PRITCHETT •NCC-3838	WRIGHT •NCC-3898

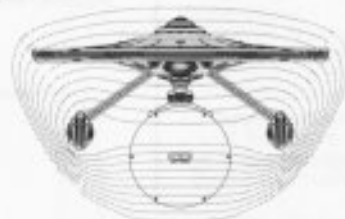
*CLASS SHIP, "LOST IN THE LINE OF DUTY." **PROPOSED. ALL NAMES PRECEDED WITH "U.S.S."

Tractor Beam Specifications

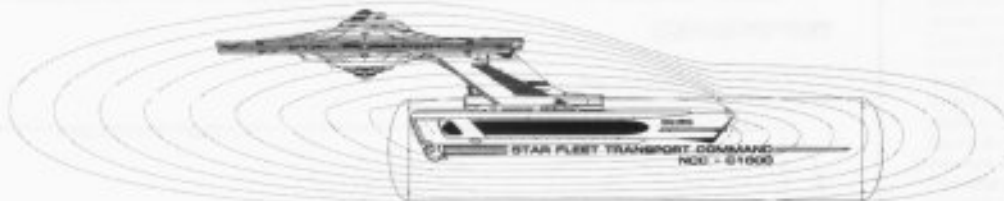
Primary Tractor Beam Load Calculator



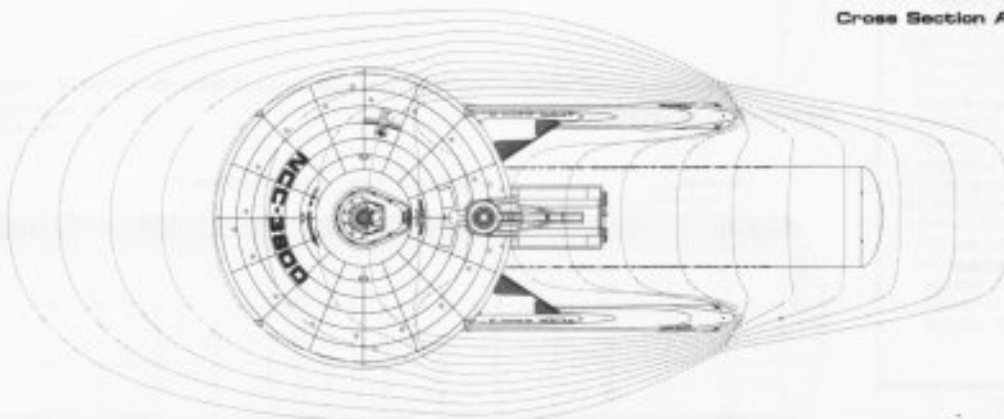
Field Length 478.26m
Field Width 159.54m
Field Height 101.22m



Front Warp Field Profile
Cross Section Area 12778.54 m²



Port Warp Field Profile
Cross Section Area 35078.55 m²



Top Warp Field Profile
Cross Section Area 59925.22 m²

MONCRIEF CLASS

FEDERATION VESSEL

LIQUID CONTAINER



DELIVERANCE CLASS

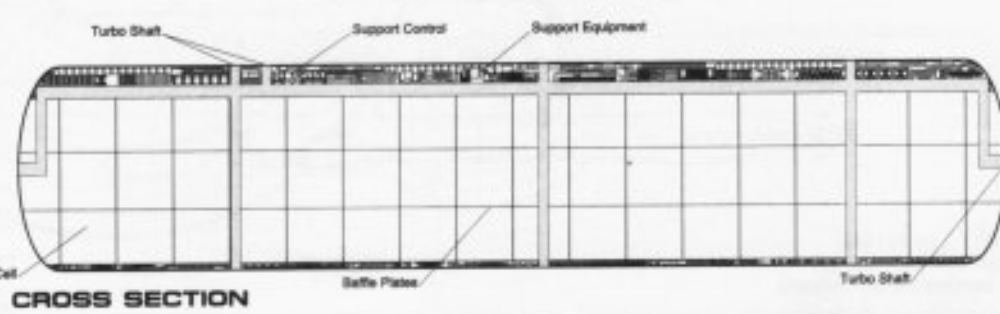
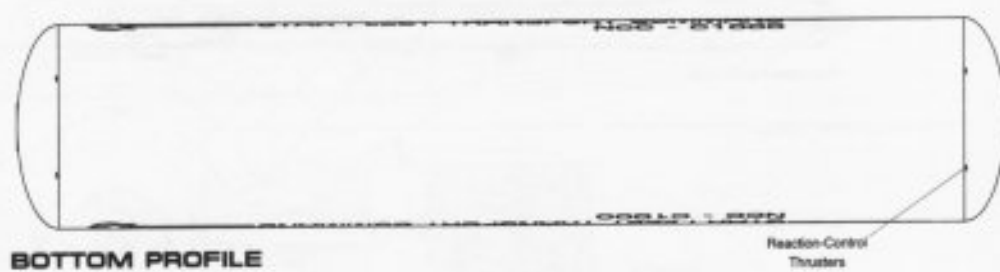
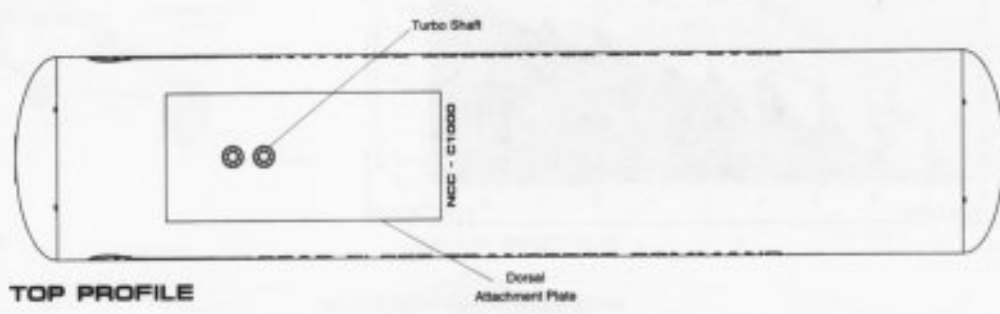
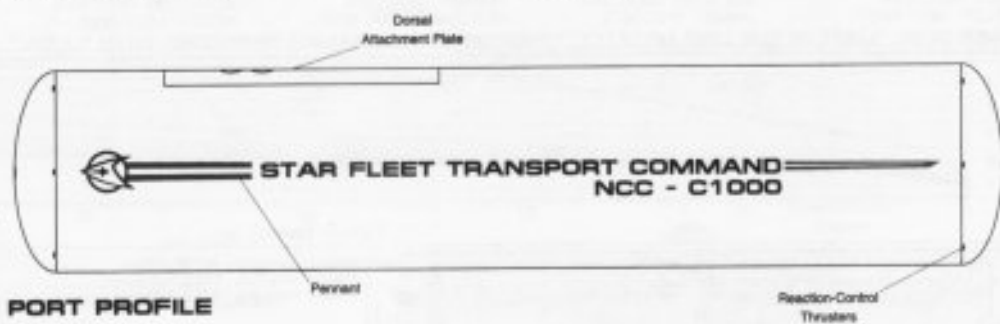
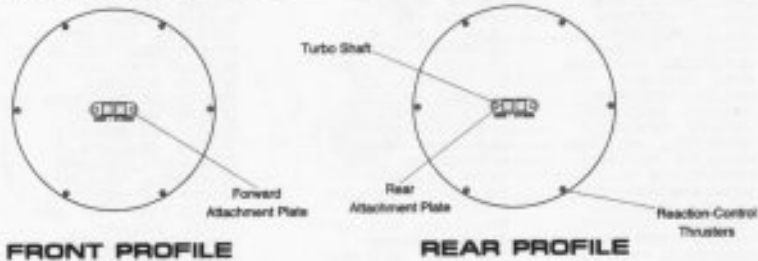
Statistics

Classification: Container
Category: Liquid Container
Type: Class 7
Model: MK-1
Dimensions:
Overall Dimensions (Meters)
 Length: 235.05m
 Width: 48.00m
 Height: 48.00m
Displacement (Metric Tons)
 Standard: 112,938mt
 Full Load: 338,814mt
Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 0
Officers: 0
Crew (Ensign Grade): 0
Passengers: 0
Emergency condition: 0
Medical Facilities:
Doctors: 0
Nurses: 0
Operating Rooms: 0
Beds: 0
Transporters Total: 4
 1 Person: 0
 2 Person: 0
 6 Person: 0
 12 Person: 0
 22 Person: 0
Small Cargo: 0
Medium Cargo: 4
Large Cargo: 0
Super Cargo: 0
Mega Cargo: 0
Tractor Beams: 0
Tow Capacity: N/A
Max. Range: N/A
Cargo Specification:
Standard Cargo Units: N/A
Cargo Capacity: 374,173.8 m³
Deck Height: 2.4 / 14.4m
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 0
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 0
 Work Bays: 0
 Travel Pods: 0
 Light Shuttle: 0
 Aquatic Shuttle: 0
 Shuttle Standard: 0
 Heavy Shuttle: 0
 Fighter: 0
 Heavy Fighter: 0
Lifeboats: 4
 TurboLift (5 person): 4
 Lifeboat (10 person): 0
 Lifeboat (20 person): 0
 Lifeboat (30 person): 0
Docking Rings: 2
Sensor Input Values:
Planetary Survey: 0.020
Short Range: 0.020
Long Range: 0.020
Navigation: 0.020
Special: 0.020
Computers: 1
 Type: Daystrom Duotronic 1b
Shield Rating:
Holdoff Power: 3.24E8
Refresh Rate: 9.21E7
Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.6m
 Height: 57.6m

General Information

The Liquids Container is used for the transportation of large amounts of liquid materials. The container is equipped with 162 separate baffled compartments, which allows the transportation of different liquids in the same container.

For additional detail refer to Datasheet MVC-1



FEDERATION CONTAINER



DRY BULK CONTAINER

General Information

The Dry Bulk Container is used for the transportation of large amounts of material such as ore and grain. The container is equipped with 54 separate compartments, this allows the transportation of different materials in the same container.

For additional detail refer to Datasheet MVC-1

Statistics

Classification: Container
Category: Dry Bulk Container
Type: Class 7
Model: MK-II
Dimensions:

Overall Dimensions (Meters)

Length: 235.05m

Width: 48.00m

Height: 48.00m

Displacement (Metric Tons)

Standard: 111,914mt

Full Load: 332,742mt

Duration (Years)

Standard: 15 Years

Maximum: 20 Years

Std. Container Complement: 0

Officers: 0

Crew (Ensign Grade): 0

Passengers: 0

Emergency condition: 0

Medical Facilities:

Doctors: 0

Nurses: 0

Operating Rooms: 0

Beds: 0

Transporters Total: 4

1 Person: 0

2 Person: 0

6 Person: 0

12 Person: 0

22 Person: 0

Small Cargo: 0

Medium Cargo: 4

Large Cargo: 0

Super Cargo: 0

Mega Cargo: 0

Tractor Beams: 0

Tow Capacity: N/A

Max. Range: N/A

Cargo Specification:

Standard Cargo Units: N/A

Cargo Capacity: 374,165.2m³

Deck Height: 2.4 / 43.2m

Shuttlecraft Specifications:

Shuttlecraft Bays Total: 0

Small Bay: 0

Medium Bay: 0

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 0

Work Bees: 0

Travel Pods: 0

Light Shuttle: 0

Aquatic Shuttle: 0

Shuttle Standard: 0

Heavy Shuttle: 0

Fighter: 0

Heavy Fighter: 0

Lifeboats: 4

Turbolift (8 person): 4

Lifeboat (10 person): 0

Lifeboat (20 person): 0

Lifeboat (30 person): 0

Docking Rings: 2

Sensor Input Values:

Planetary Survey: 0.020

Short Range: 0.020

Long Range: 0.020

Navigation: 0.020

Special: 0.020

Computers: 1

Type: Daystrom Ductronic IC

Shield Rating:

Holdoff Power: 3.24E8

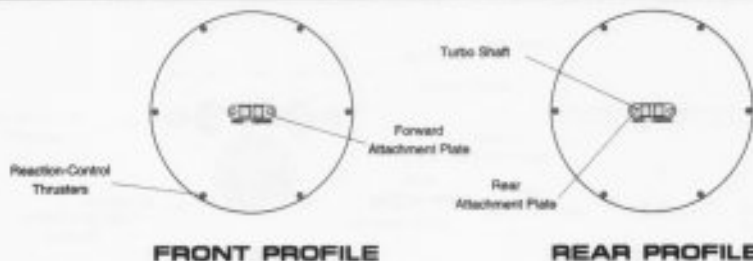
Refresh Rate: 9.21E7

Shield Dimensions (Meters)

Length: 282.01m

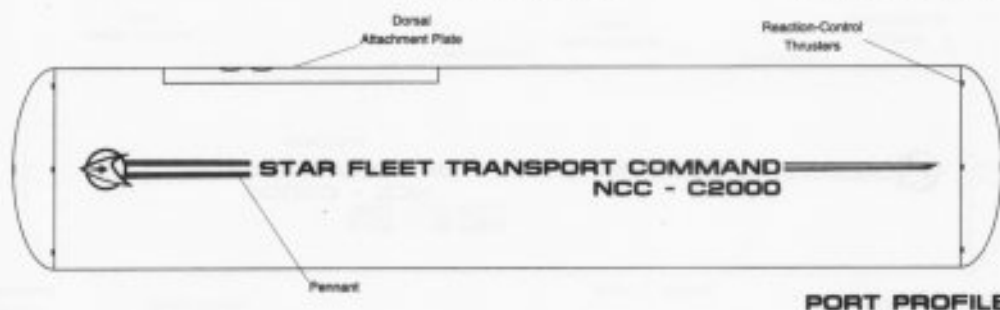
Width: 57.6m

Height: 57.6m

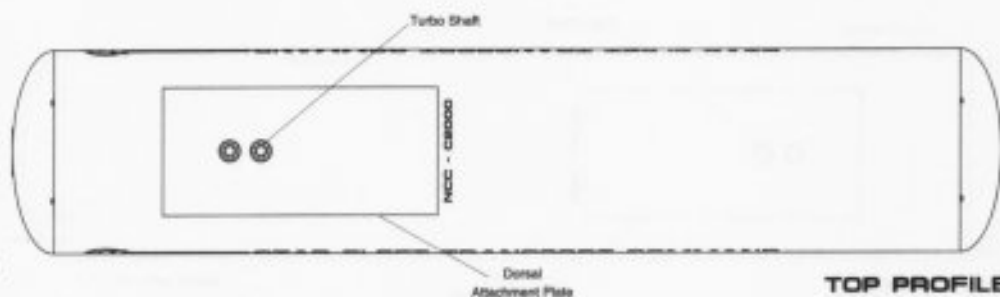


FRONT PROFILE

REAR PROFILE



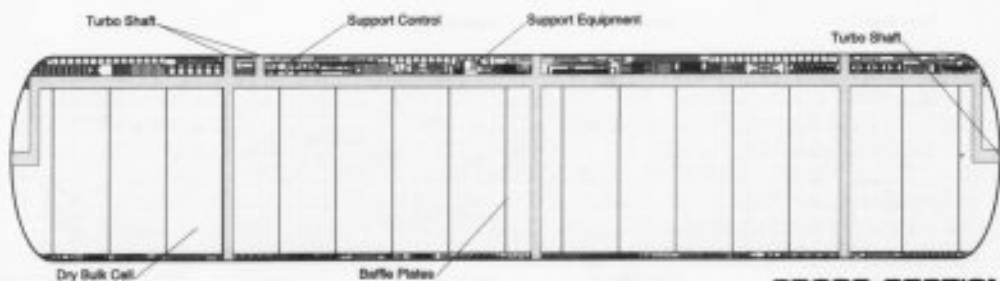
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION



DELIVERANCE CLASS

FEDERATION CONTAINER

REEFERS CONTAINER



DELIVERANCE CLASS

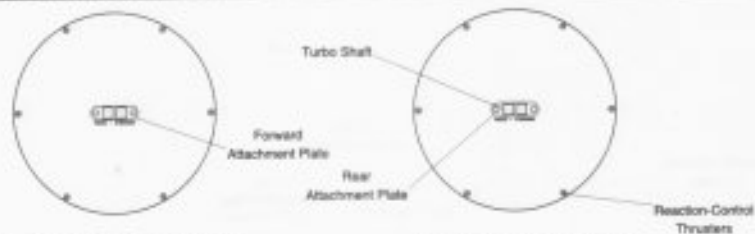
Statistics

Classification: Container
Category: Reefers Container
Type: Class 7
Model: MK-II
Dimensions:
Overall Dimensions (Meters)
 Length: 235.05m
 Width: 48.00m
 Height: 48.00m
Displacement (Metric Tons)
 Standard: 135,526mt
 Full Load: 338,815mt
Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 0
Officers: 0
Crew (Ensign Grade): 0
Passengers: 0
Emergency condition: 0
Medical Facilities:
Doctors: 0
Nurses: 0
Operating Rooms: 0
Beds: 0
Transporters Total: 4
 1 Person: 0
 2 Person: 0
 6 Person: 0
 12 Person: 0
 22 Person: 0
 Small Cargo: 0
 Medium Cargo: 4
 Large Cargo: 0
 Super Cargo: 0
 Mega Cargo: 0
TraCTOR Beams: 0
Tow Capacity: N/A
Max. Range: N/A
Cargo Specification:
Standard Cargo Units: N/A
Cargo Capacity: 373,182.1 m³
Deck Height: 2.4 m
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 0
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 0
 Work Bees: 0
 Travel Pods: 0
 Light Shuttle: 0
 Aquatic Shuttle: 0
 Shuttle Standard: 0
 Heavy Shuttle: 0
 Fighter: 0
 Heavy Fighter: 0
Lifeboats: 4
 Turbolift (8 person): 4
 Lifeboat (10 person): 0
 Lifeboat (20 person): 0
 Lifeboat (30 person): 0
Docking Rings: 2
Sensor Input Values:
Planetary Survey: 0.020
Short Range: 0.020
Long Range: 0.020
Navigation: 0.020
Special: 0.020
Computers: 1
Type: Doystrom Duotronic I'd
Shield Rating:
Holdoff Power: 3.24E8
Refresh Rate: 9.21E7
Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.6m
 Height: 57.6m

General Information

The Reefers Container is used for the transportation of large amounts of materials that require specific climate control for transportation. The container is equipped with 1500 separate climate controlled compartments.

For additional detail refer to Datasheet MVC-1

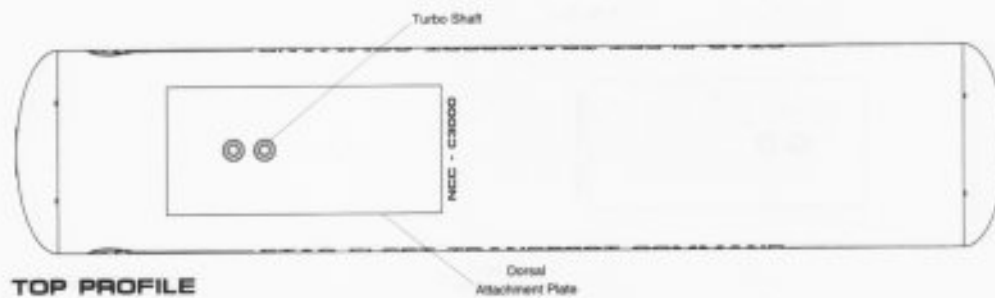


FRONT PROFILE

REAR PROFILE



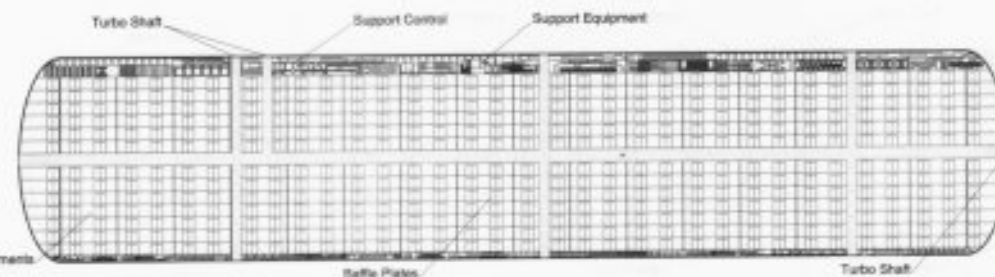
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION



FEDERATION CONTAINER



STARLINER CONTAINER

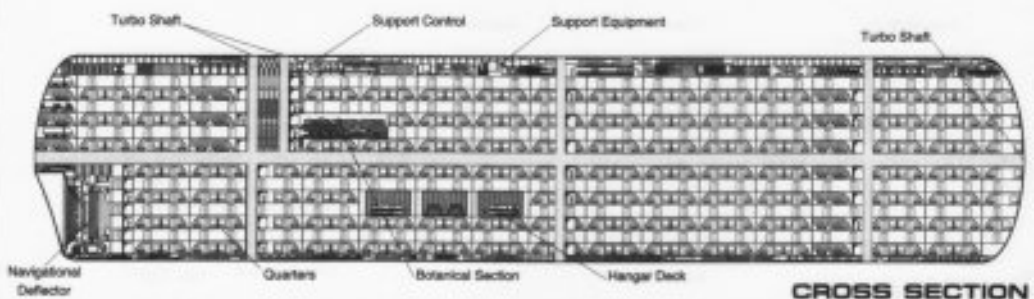
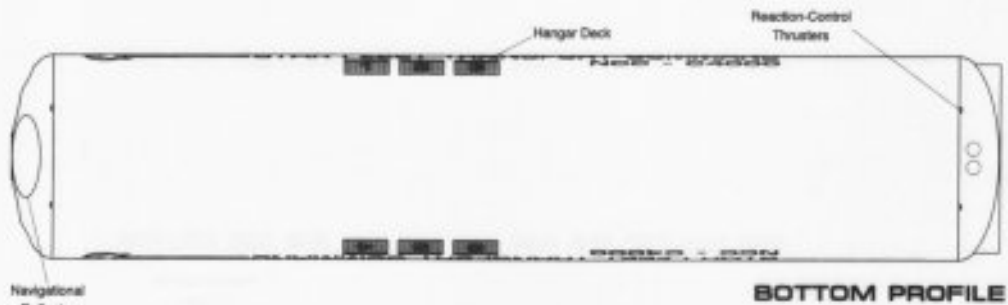
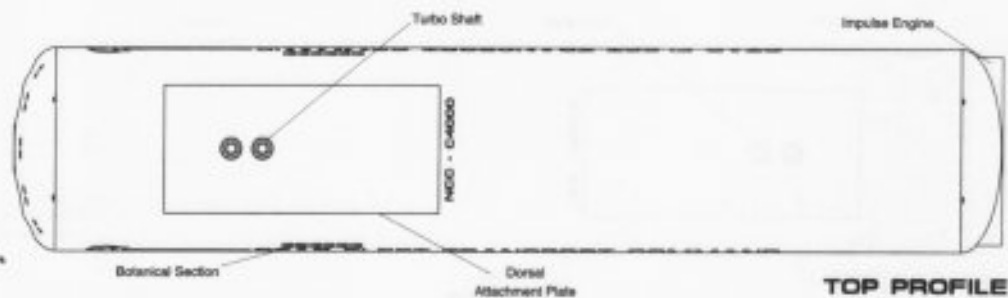
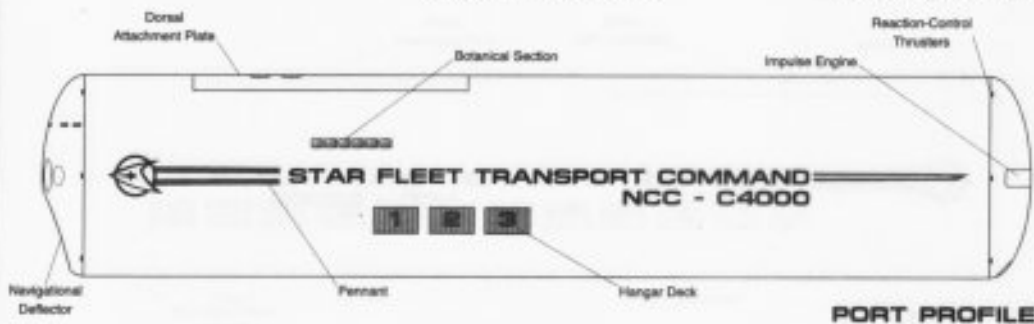
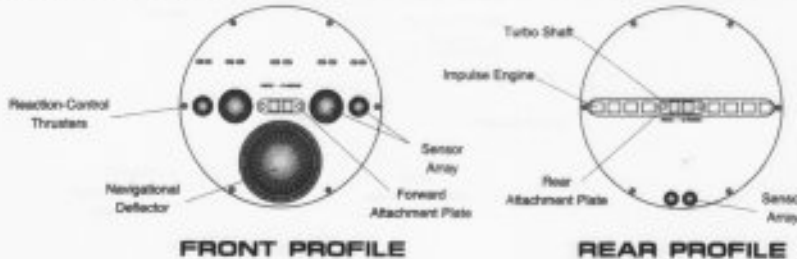
General Information

The Starliner Container is used for the transportation of people. The container is equipped with extensive facilities for both luxury and standard passage. The container is also equipped with a six bay hangar deck used for passenger transportation.

For additional detail refer to Datasheet MVC-1

Statistics

Classification: Container
Category: Starliner Container
Type: Class 7
Model: MK-IV
Dimensions:
Overall Dimensions (Meters)
 Length: 235.05m
 Width: 48.00m
 Height: 48.00m
Displacement (Metric Tons)
 Standard: 201,036mt
 Full Load: 301,554mt
Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 165
Officers: 15
Crew (Ensign Grade): 150
Passengers: 500
Emergency condition: +200
Medical Facilities:
 Doctors: 3
 Nurses: 15
 Operating Rooms: 3
 Beds: 20
Transporters Total: 10
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 2
 Small Cargo: 0
 Medium Cargo: 4
 Large Cargo: 0
 Super Cargo: 0
 Mega Cargo: 0
Traction Beams: 0
Tow Capacity: N/A
Max. Range: N/A
Cargo Specification:
 Standard Cargo Units: 30
 Cargo Capacity: 1,500 mt
 Deck Height: 2.4 m
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 1
 Small Bay: 1
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 5
 Work Bees: 0
 Travel Pods: 0
 Light Shuttle: 0
 Aquatic Shuttle: 0
 Shuttle Standard: 5
 Heavy Shuttle: 0
 Fighter: 0
 Heavy Fighter: 0
Lifeboats: 35
 TurboLift (8 person): 30
 Lifeboat (10 person): 0
 Lifeboat (30 person): 5
 Lifeboat (30 person): 0
Docking Rings: 2
Sensor Input Values:
 Planetary Survey: 0.020
 Short Range: 0.020
 Long Range: 0.020
 Navigation: 0.020
 Special: 0.020
Computers: 1
Type: Daystrom Duotronic 1e
Shield Rating:
 Holdoff Power: 3.24E8
 Refresh Rate: 9.21E7
Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.6m
 Height: 57.6m



DELIVERANCE CLASS

FEDERATION CONTAINER

PRODUCTS CONTAINER



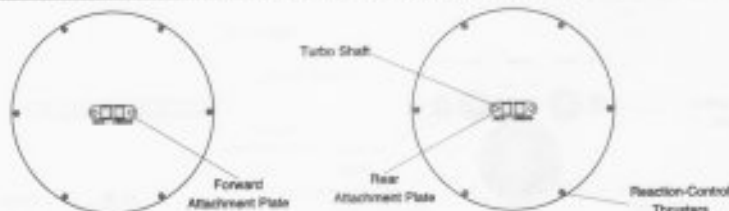
Statistics

Classification: Container
Category: Products Container
Type: Class 7
Model: MK-V
Dimensions:
Overall Dimensions (Meters)
 Length: 235.05m
 Width: 48.00m
 Height: 48.00m
Displacement (Metric Tons)
 Standard: 138,419mt
 Full Load: 329,119mt
Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 0
Officers: 0
Crew (Ensign Grade): 0
Passengers: 0
Emergency condition: 0
Medical Facilities:
 Doctors: 0
 Nurses: 0
 Operating Rooms: 0
 Beds: 0
Transporters Total: 4
 1 Person: 0
 2 Person: 0
 6 Person: 0
 12 Person: 0
 22 Person: 0
 Small Cargo: 0
 Medium Cargo: 4
 Large Cargo: 0
 Super Cargo: 0
 Mega Cargo: 0
TraCTOR Beams: 0
 Tow Capacity: N/A
 Max. Range: N/A
Cargo Specification:
 Standard Cargo Units: N/A
 Cargo Capacity: 373,529.8 m³
 Deck Height: 2.4 m
Shuttlecraft Specifications:
 Shuttlecraft Bays Total: 0
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 0
 Shuttlecraft Standard: 0
 Work Bays: 0
 Travel Pods: 0
 Light Shuttle: 0
 Aquatic Shuttle: 0
 Shuttle Standard: 0
 Heavy Shuttle: 0
 Fighter: 0
 Heavy Fighter: 0
 Lifeboats: 4
 Turbolift (8 person): 4
 Lifeboat (10 person): 0
 Lifeboat (20 person): 0
 Lifeboat (30 person): 0
 Docking Rings: 2
Sensor Input Values:
 Planetary Survey: 0.020
 Short Range: 0.020
 Long Range: 0.020
 Navigation: 0.020
 Special: 0.020
Computers: 1
 Type: Daystrom Duotronic 1e
Shield Rating:
 Holdoff Power: 3.24E8
 Refresh Rate: 9.21E7
Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.6m
 Height: 57.6m

General Information

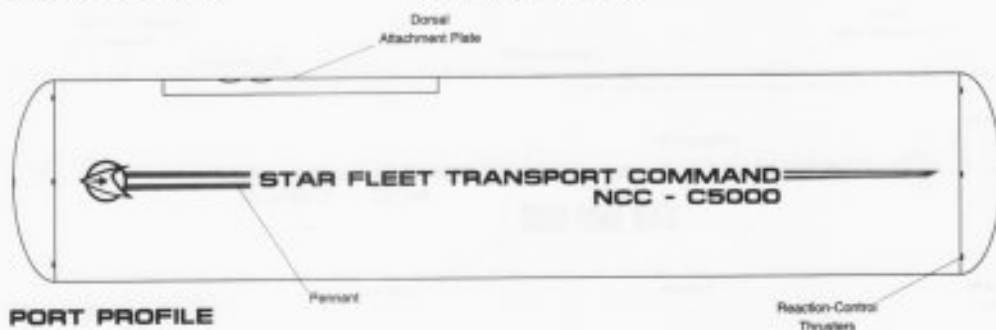
The Products Container is used for the transportation of large amounts of general materials. The container is equipped with 1500 separate compartments which allows the transportation of individual products.

For additional detail refer to Datasheet MVC-1

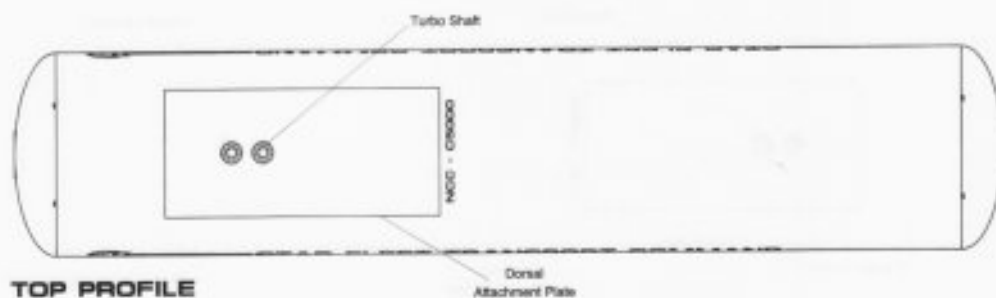


FRONT PROFILE

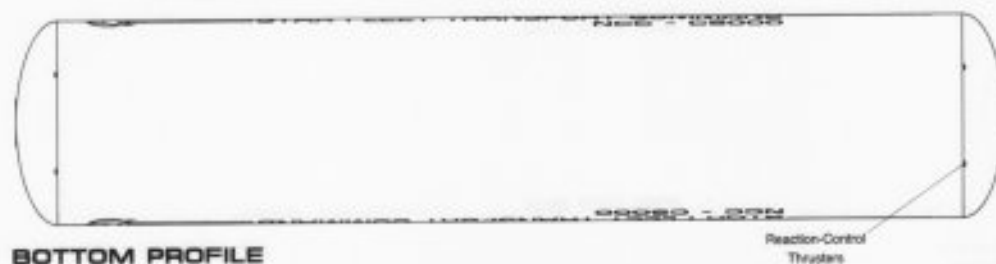
REAR PROFILE



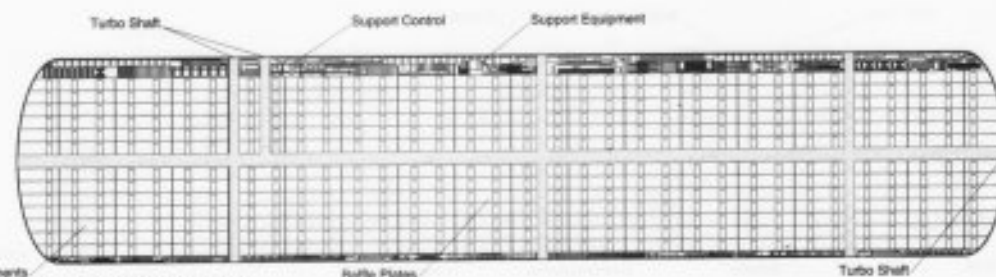
PORT PROFILE



TOP PROFILE



BOTTOM PROFILE



CROSS SECTION





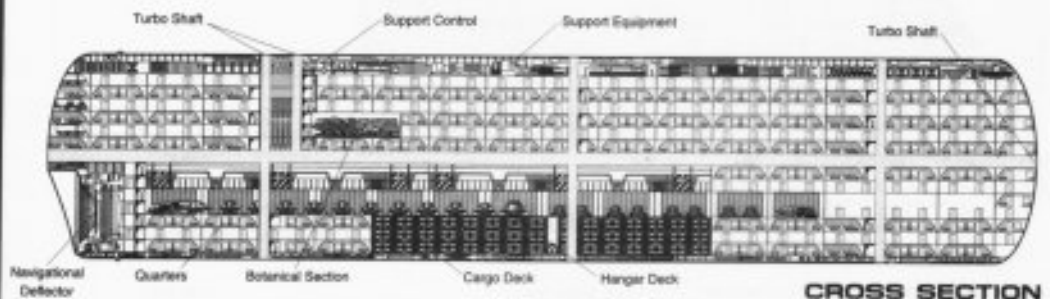
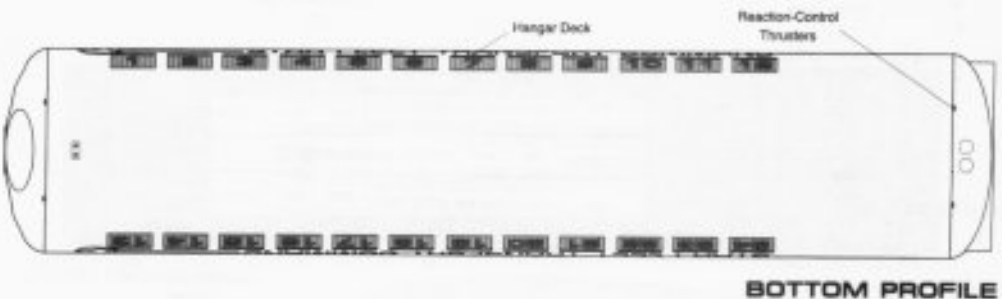
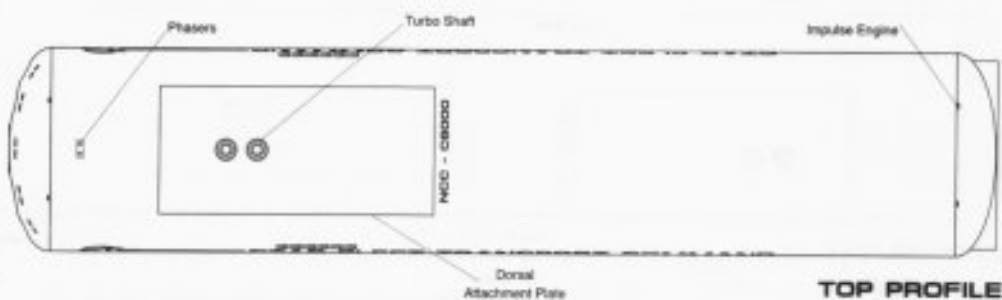
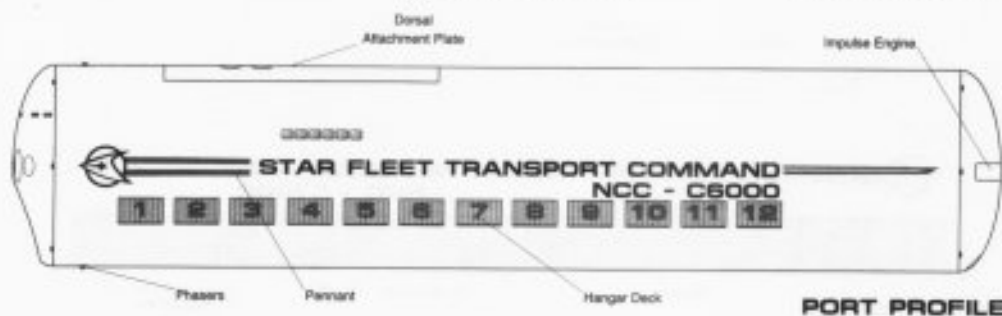
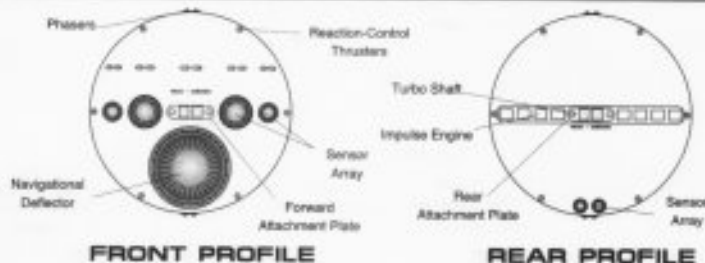
ASSAULT CONTAINER

General Information

The Assault Transport Container is used for the transportation and support of Federation Peace Keeping Forces (Starfleet Marines). The container is equipped with facilities and supplies to support the troops. The container is also equipped with a twenty four bay hangar deck used for fighters and assault craft. For additional detail refer to Datasheet MVC-2

Statistics

Classification: Container
Category: Assault Transport Container
Type: Class 7
Model: MK-VI
Dimensions:
Overall Dimensions (Meters)
 Length: 235.05m
 Width: 48.00m
 Height: 48.00m
Displacement (Metric Tons)
 Standard: 1225,309mt
 Full Load: 358,125mt
Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 460
Officers: 60
Crew (Ensign Grade): 400
Passengers: 30
Emergency condition: +200
Medical Facilities:
 Doctors: 7
 Nurses: 25
 Operating Rooms: 8
 Beds: 30
Transporters Total: 21
 1 Person: 0
 2 Person: 0
 6 Person: 8
 12 Person: 4
 22 Person: 5
 Small Cargo: 0
 Medium Cargo: 4
 Large Cargo: 0
 Super Cargo: 0
 Mega Cargo: 0
Tractor Beams: 0
Tow Capacity: N/A
Max. Range: N/A
Cargo Specification:
 Standard Cargo Units: 150
 Cargo Capacity: 7,500 mt
 Deck Height: 2.4 m
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 1
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 1
 Super Bay: 0
Shuttlecraft Standard: 22
 Work Bees: 0
 Travel Pods: 0
 Light Shuttle: 0
 Aquatic Shuttle: 2
 Shuttle Standard: 5
 Assault Shuttle: 15
 Fighter: 15
 Heavy Fighter: 15
Lifeboats: 26
 TurboLift (8 person): 20
 Lifeboat (10 person): 0
 Lifeboat (20 person): 6
 Lifeboat (30 person): 0
Docking Rings: 2
Sensor Input Values:
 Planetary Survey: 0.020
 Short Range: 0.020
 Long Range: 0.020
 Navigation: 0.020
 Special: 0.020
Computers: 1
Type: Daystrom Duotronic II
Shield Rating:
 Holdoff Power: 3.24E8
 Refresh Rate: 9.21E7
Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.6m
 Height: 57.6m



DELIVERANCE CLASS

FEDERATION CONTAINER

ENGINE REPAIR CONTAINER



DELIVERANCE CLASS

FEDERATION CONTAINER

Statistics

Classification: Container
Category: Engine Repair Container
Type: Class 7
Model: MK-VII

Dimensions:
Overall Dimensions (Meters)
 Length: 235.05m
 Width: 48.00m
 Height: 48.00m
Displacement (Metric Tons)
 Standard: 101,423mt
 Full Load: 342,812mt
Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 100
 Officers: 20
 Crew (Ensign Grade): 80
 Passengers: 30
 Emergency condition: +90

Medical Facilities:
 Doctors: 2
 Nurses: 4
 Operating Rooms: 2
 Beds: 5
Transporters Total: 6
 1 Person: 0
 2 Person: 0
 6 Person: 2
 12 Person: 0
 22 Person: 0
 Small Cargo: 0
 Medium Cargo: 4
 Large Cargo: 0
 Super Cargo: 0
 Mega Cargo: 0
 Tractor Beams: 0

Tow Capacity: 3.55×10^6 mt
Max Range: 9.21×10^3 km
Cargo Specification:
 Standard Cargo Units: N/A
 Cargo Capacity: 350,188.8 m³
 Deck Height: 2.4 m

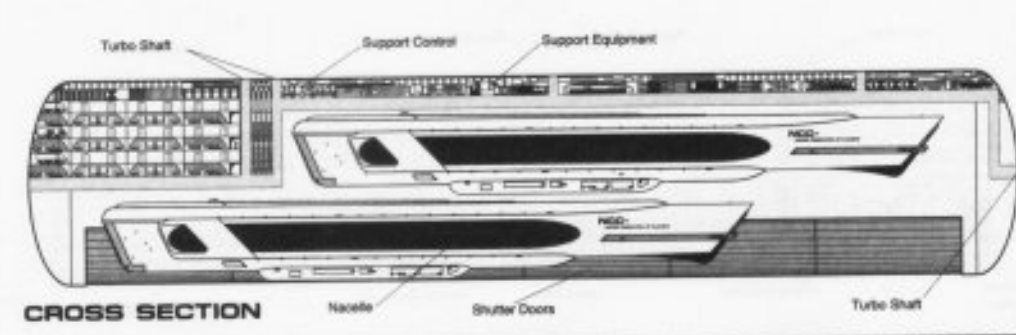
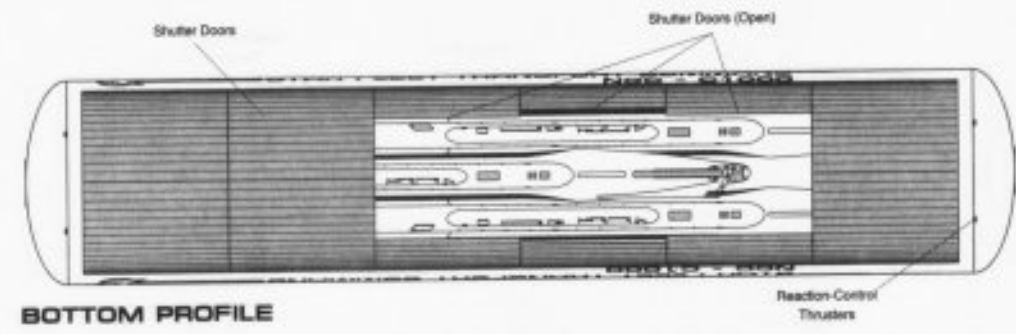
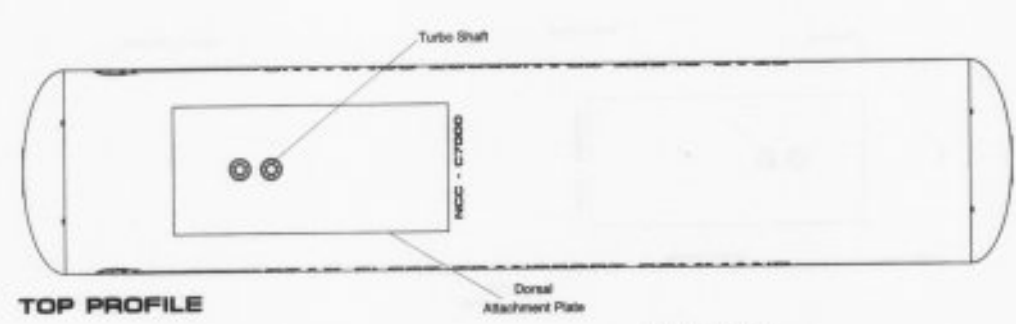
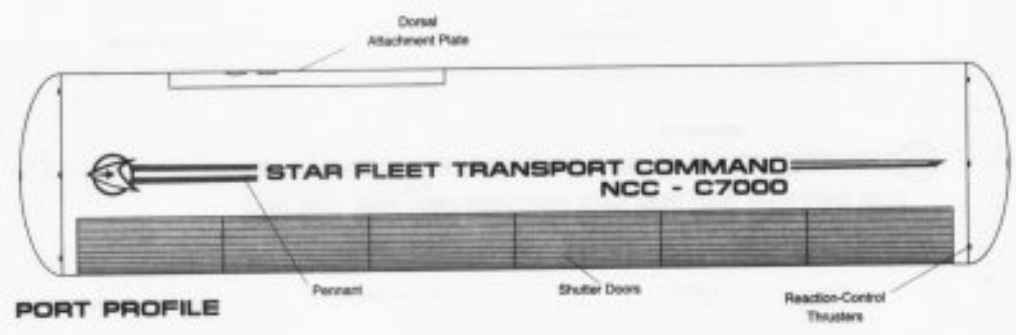
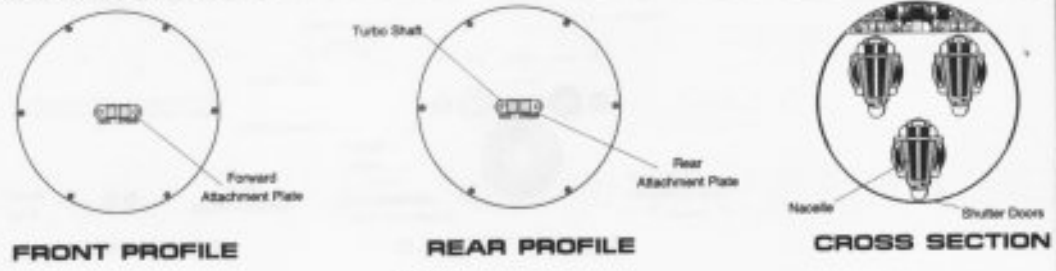
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 1
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 0
 Super Bay: 1
Shuttlecraft Standard: 27
 Work Bess: 20
 Travel Pods: 5
 Light Shuttle: 0
 Aquatic Shuttle: 0
 Shuttle Standard: 2
 Heavy Shuttle: 0
 Fighter: 0
 Heavy Fighter: 0
 Lifeboats: 5
 Turbolift (8 person): 4
 Lifeboat (10 person): 0
 Lifeboat (30 person): 4
 Lifeboat (30 person): 0
Docking Rings: 2

Sensor Input Values:
 Planetary Survey: 0.020
 Short Range: 0.020
 Long Range: 0.020
 Navigation: 0.020
 Special: 0.020

Computers: 1
 Type: Daystrom Duotronic Ig
Shield Rating:
 Holdoff Power: 3.24E8
 Refresh Rate: 9.21E7
Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.6m
 Height: 57.6m

General Information

The Engine Repair Container is used for the transportation and installation of warp nacelles. The container can carry up to three nacelles with facilities and shops for repair work. Located on the bottom of the container are 12 large shutter doors that allow the engine from a distressed ship to be put inside without disassembly for easier repair work. For additional detail refer to Datasheet MVC-2





LARGE PRODUCT CONTAINER

General Information

The Large Product Container is used for the transportation of large items that can not be towed by a tractor beam. This container is equipped with a large door located at the rear to allow items to be placed inside.

For additional detail refer to Datasheet MVC-2

Statistics

Classification: Container
Category: Large Product Container
Type: Class 7
Model: MK-VII

Dimensions:

Overall Dimensions (Meters)

Length: 235.05m
Width: 49.01m
Height: 49.22m

Displacement (Metric Tons)

Standard: 100,112mt
Full Load: 351,521mt

Duration (Years)

Standard: 15 Years
Maximum: 20 Years

Std. Container Complement: 0

Officers: 0
Crew (Ensign Grade): 0
Passengers: 0
Emergency condition: 0

Medical Facilities:

Doctors: 0
Nurses: 0
Operating Rooms: 0
Beds: 0

Transporters Total: 2

1 Person: 0
2 Person: 0
6 Person: 1
12 Person: 0
22 Person: 0
Small Cargo: 0
Medium Cargo: 1
Large Cargo: 0
Super Cargo: 0
Mega Cargo: 0
Tractor Beams: 1

Tow Capacity: 3.37×10^6 mt

Max. Tow Capacity: 9.10×10^3 km

Cargo Specification:

Standard Cargo Units: N/A
Cargo Capacity: 374,173.8 m³
Deck Height: 47.01m

Shuttlecraft Specifications:

Shuttlecraft Bays Total: 0
Small Bay: 0
Medium Bay: 0
Large Bay: 0
Super Bay: 0
Shuttlecraft Standard: 0
Work Bees: 0
Travel Pods: 0
Light Shuttle: 0
Aquatic Shuttle: 0
Shuttle Standard: 0
Heavy Shuttle: 0
Fighter: 0
Heavy Fighter: 0

Lifeboats: 2

Turbolift (5 person): 2
Lifeboat (10 person): 0
Lifeboat (20 person): 0
Lifeboat (30 person): 0

Docking Rings: 2

Sensor Input Values:

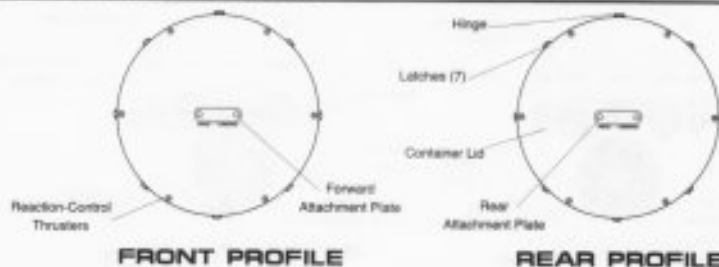
Planetary Survey: 0.020
Short Range: 0.020
Long Range: 0.020
Navigation: 0.020
Special: 0.020

Computers: 1

Type: Daystrom Duotronic II

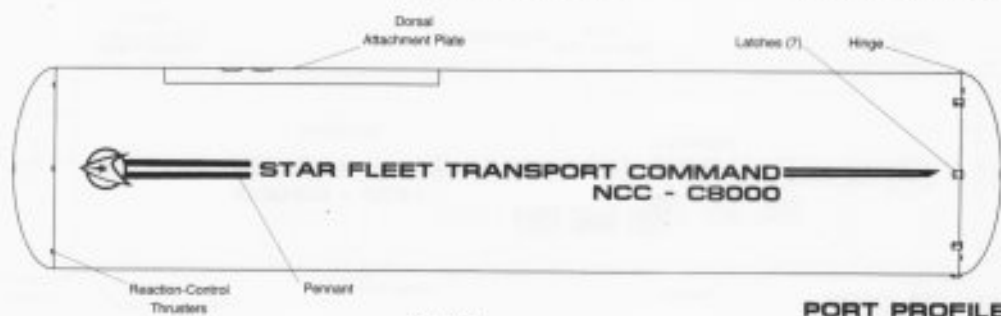
Shield Rating:

Holdoff Power: 3.24E8
Refresh Rate: 9.21E7
Shield Dimensions (Meters)
Length: 282.01m
Width: 57.6m
Height: 57.6m

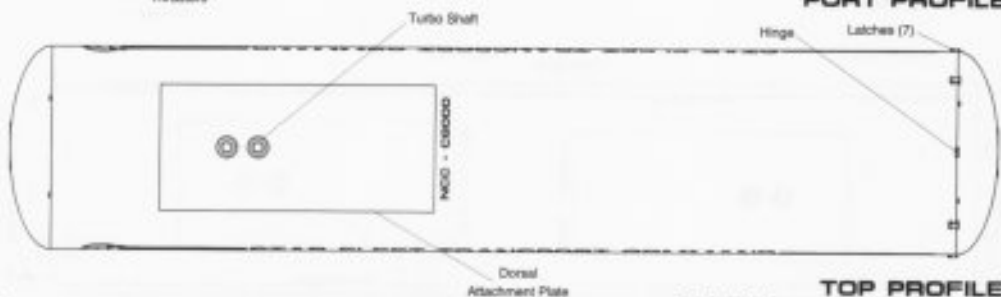


FRONT PROFILE

REAR PROFILE



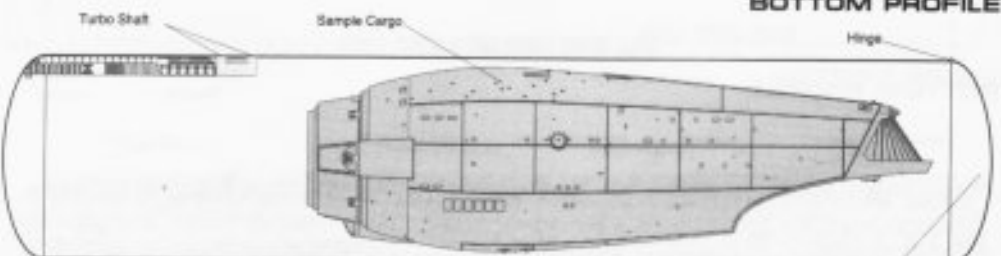
PORT PROFILE



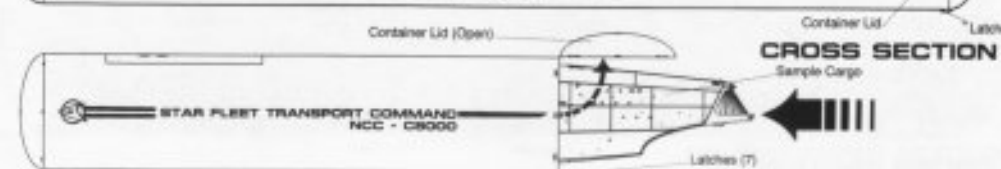
TOP PROFILE



BOTTOM PROFILE



CROSS SECTION



CONTAINER LOADING



DELIVERANCE CLASS

FEDERATION CONTAINER

COLONIAL TRANSPORT



DELIVERANCE CLASS

FEDERATION CONTAINER

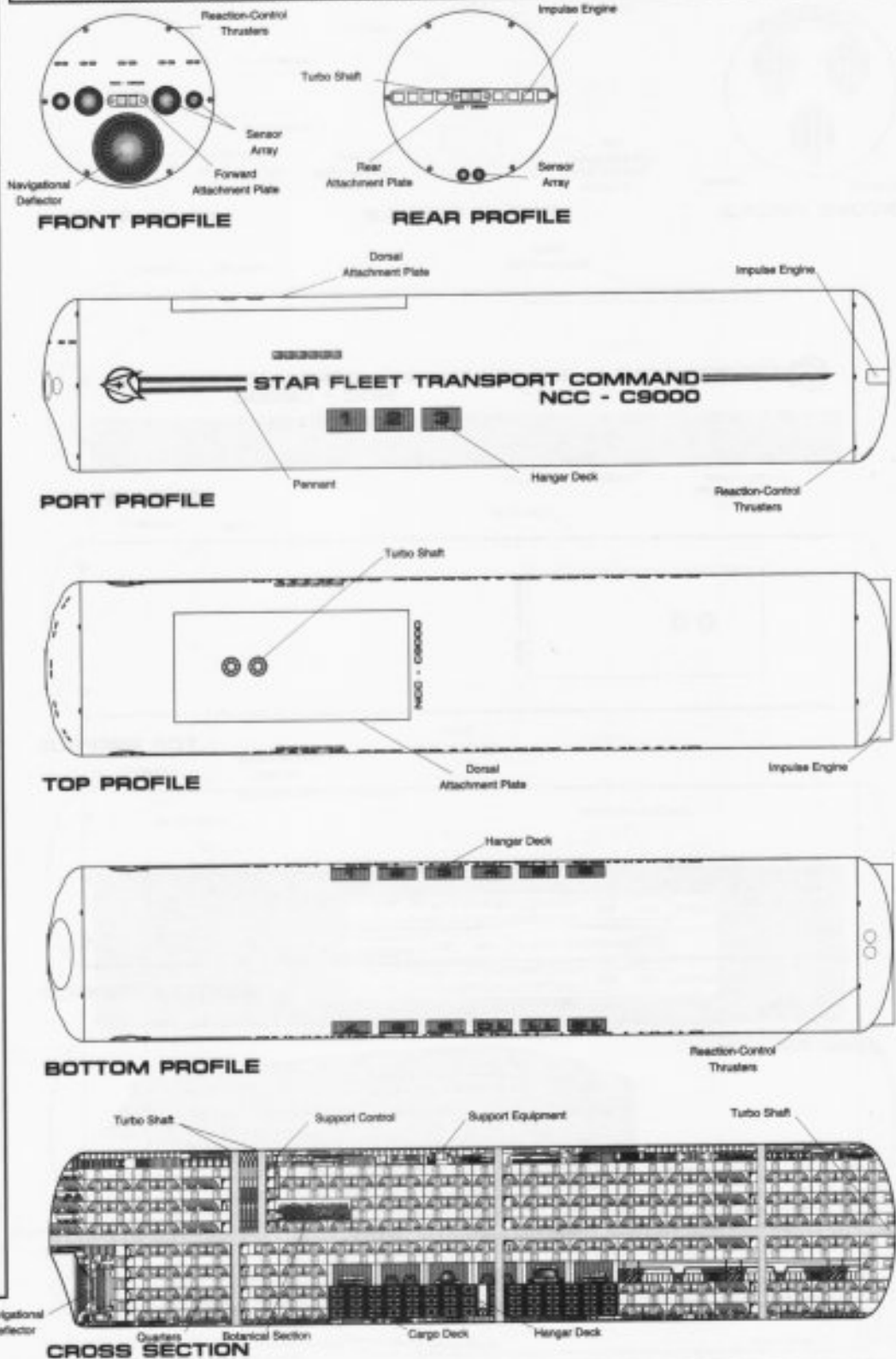
Statistics

Classification: Container
Category: Colonial Transport Container
Type: Class 7
Model: MK-IX
Dimensions:
Overall Dimensions (Meters)
 Length: 235.05m
 Width: 48.00m
 Height: 48.00m
Displacement (Metric Tons)
 Standard: 223,411mt
 Full Load: 356,144mt
Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 115
Officers: 15
Crew (Ensign Grade): 100
Passengers: 400
Emergency condition: +300
Medical Facilities:
 Doctors: 5
 Nurses: 9
 Operating Rooms: 5
 Beds: 15
Transporters Total: 10
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 2
 Small Cargo: 0
 Medium Cargo: 4
 Large Cargo: 0
 Super Cargo: 0
 Mega Cargo: 0
Tractor Beams: 0
 Tow Capacity: N/A
 Max. Range: N/A
Cargo Specification:
 Standard Cargo Units: 450
 Cargo Capacity: 22,500 mt
 Deck Height: 2.4 m
Shuttlecraft Specifications:
Shuttlecraft Bays Total: 1
 Small Bay: 0
 Medium Bay: 1
 Large Bay: 0
 Super Bay: 0
Shuttlecraft Standard: 22
 Work Bees: 0
 Travel Pods: 0
 Light Shuttle: 2
 Aquatic Shuttle: 0
 Shuttle Standard: 8
 Heavy Shuttle: 0
 Cargo Shuttle: 12
 Heavy Fighter: 0
Lifeboats: 20
 TurboLift (8 person): 10
 Lifeboat (10 person): 0
 Lifeboat (30 person): 0
 Lifeboat (30 person): 10
Docking Rings: 2
Sensor Input Values:
 Planetary Survey: 0.020
 Short Range: 0.020
 Long Range: 0.020
 Navigation: 0.020
 Special: 0.020
Computers: 1
 Type: Daystrom Duotronic Ij
Shield Rating:
 Holdoff Power: 3.24E8
 Refresh Rate: 9.21E7
Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.6m
 Height: 57.6m

General Information

The Colonial Transport Container is used for the transportation and support of colonization efforts. The container is equipped with facilities and supplies to support colonization. The container is also equipped with a twelve bay hangar deck used for ground support.

For additional detail refer to Datasheet MVC-2





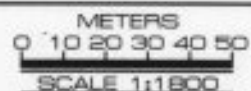
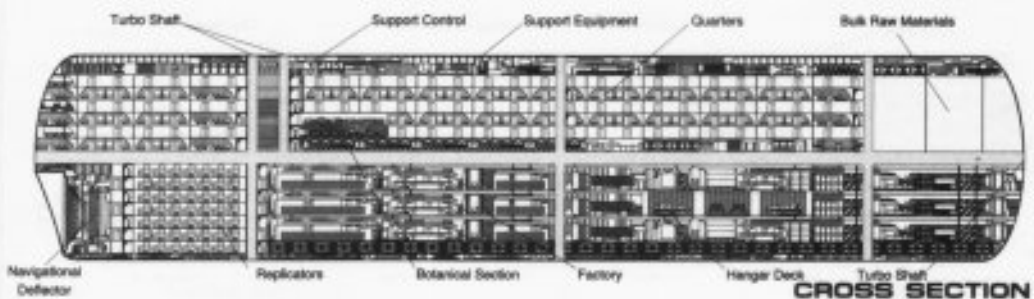
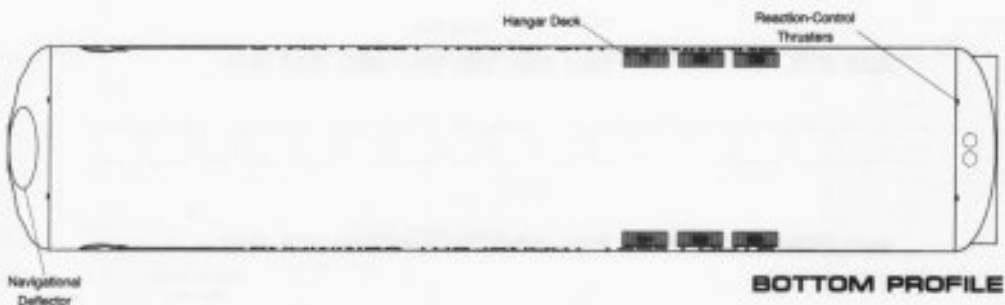
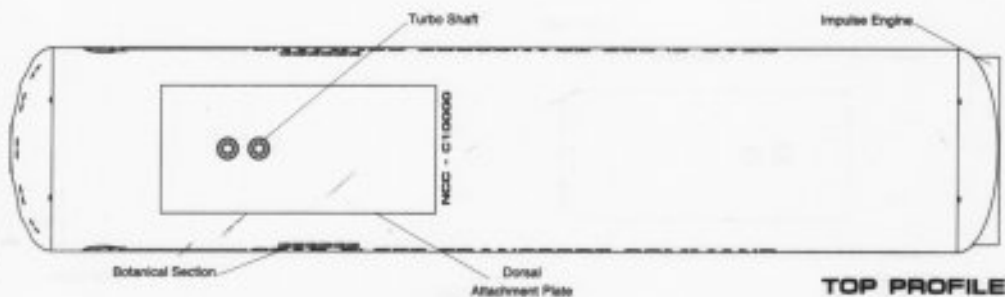
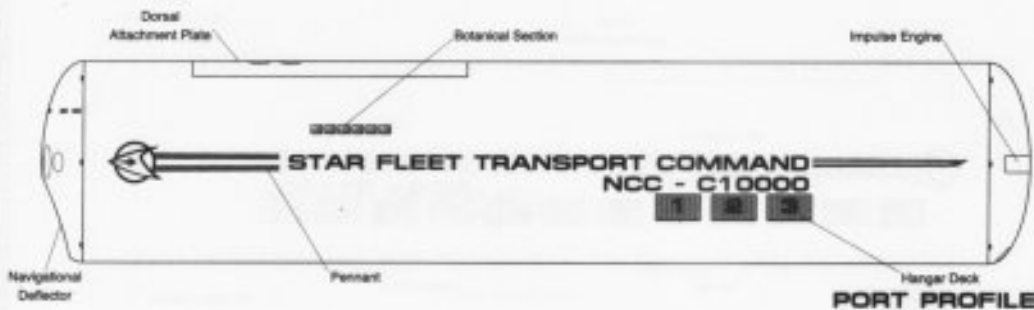
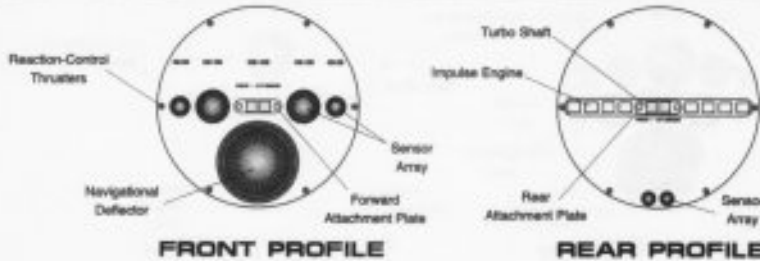
FACTORY CONTAINER

General Information

The Factory Container is designed to be transported to various locations so that materials can be manufactured on the spot. The container is equipped with extensive replicators and shops for processing and manufacturing. The container is also equipped with a six bay hangar deck used for transportation of materials. For additional detail refer to Datasheet MVC-2

Statistics

Classification: Container
Category: Factory Container
Type: Class 7
Model: MK-X
Dimensions:
Overall Dimensions (Meters)
 Length: 235.05m
 Width: 48.00m
 Height: 48.00m
Displacement (Metric Tons)
 Standard: 243,819mt
 Full Load: 368,149mt
Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 330
Officers: 30
Crew (Ensign Grade): 300
Passengers: 30
Emergency condition: +200
Medical Facilities:
 Doctors: 5
 Nurses: 12
 Operating Rooms: 4
 Beds: 12
Transporters Total: 10
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 1
 Small Cargo: 0
 Medium Cargo: 4
 Large Cargo: 1
 Super Cargo: 0
 Mega Cargo: 0
TraCTOR Beams: 0
 Tow Capacity: N/A
 Max. Range: N/A
Cargo Specification:
 Standard Cargo Units: 500
 Cargo Capacity: 25,000 mt
 Deck Height: 2.4 m
Shuttlecraft Specifications:
 Shuttlecraft Bays Total: 1
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 1
 Super Bay: 0
 Shuttlecraft Standard: 16
 Work Bees: 0
 Travel Pods: 0
 Light Shuttle: 2
 Aquatic Shuttle: 0
 Shuttle Standard: 3
 Heavy Shuttle: 1
 Cargo Shuttle: 10
 Heavy Fighter: 0
Lifeboats: 17
 Turbolift (8 person): 8
 Lifeboat (10 person): 0
 Lifeboat (20 person): 0
 Lifeboat (30 person): 0
Docking Rings: 2
Sensor Input Values:
 Planetary Survey: 0.020
 Short Range: 0.020
 Long Range: 0.020
 Navigation: 0.020
 Special: 0.020
Computers: 3
 Type: Daystrom Ductronic II
Shield Rating:
 Holdoff Power: 3.24E8
 Refresh Rate: 9.21E7
Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.6m
 Height: 57.6m



SHUTTLECRAFT CONTAINER



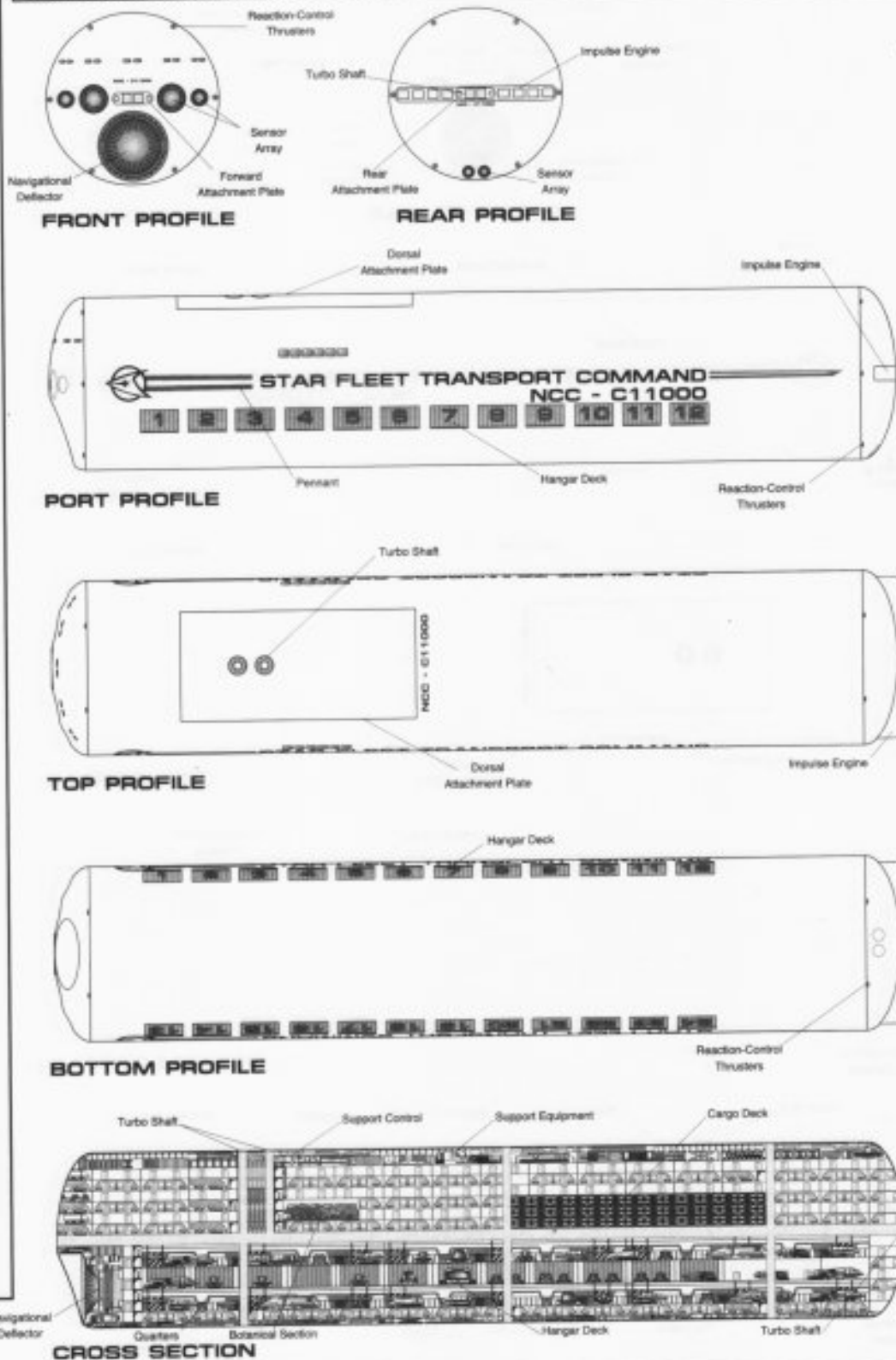
Statistics

Classification: Container
Category: Shuttlecraft Container
Type: Class 7
Model: MK-XI
Dimensions:
Overall Dimensions (Meters)
 Length: 235.05m
 Width: 48.00m
 Height: 48.00m
Displacement (Metric Tons)
 Standard: 185,321mt
 Full Load: 354,719mt
Duration (Years)
 Standard: 15 Years
 Maximum: 20 Years
Std. Container Complement: 385
Officers: 35
Crew (Ensign Grade): 350
Passengers: 30
Emergency condition: +200
Medical Facilities:
 Doctors: 5
 Nurses: 16
 Operating Rooms: 4
 Beds: 20
Transporters Total: 10
 1 Person: 0
 2 Person: 0
 6 Person: 4
 12 Person: 0
 22 Person: 2
 Small Cargo: 0
 Medium Cargo: 4
 Large Cargo: 0
 Super Cargo: 0
 Mega Cargo: 0
TraCTOR Beams: 0
 Tow Capacity: N/A
 Max. Range: N/A
Cargo Specification:
 Standard Cargo Units: 100
 Cargo Capacity: 5,000 mt
 Deck Height: 2.4 / 7.2m
Shuttlecraft Specifications:
 Shuttlecraft Bays Total: 2
 Small Bay: 0
 Medium Bay: 0
 Large Bay: 2
 Super Bay: 0
 Shuttlecraft Standard: 97
 Work Bees: 15
 Travel Pods: 5
 Light Shuttle: 20
 Aquatic Shuttle: 5
 Shuttle Standard: 25
 Heavy Shuttle: 15
 Fighter: 6
 Heavy Fighter: 6
 Lifeboats: 16
 TurboLift (8 person): 8
 Lifeboat (10 person): 0
 Lifeboat (20 person): 0
 Lifeboat (30 person): 8
 Docking Rings: 2
Sensor Input Values:
 Planetary Survey: 0.020
 Short Range: 0.020
 Long Range: 0.020
 Navigation: 0.020
 Special: 0.020
Computers: 1
 Type: Crayston Duotronic II
Shield Rating:
 Holdoff Power: 3.24E8
 Refresh Rate: 8.21E7
Shield Dimensions (Meters)
 Length: 282.01m
 Width: 57.6m
 Height: 57.6m

General Information

The Shuttlecraft Container is used for the support of a large number of shuttles and fighters. The container is equipped with a twenty four bay hangar deck with two additional main hangar decks. Located above the hangar facilities are the living quarters for the pilots

For additional detail refer to Datasheet MVC-3





SURVEY CONTAINER

General Information

The Survey Container is used for exploration, charting and research. The container is equipped with extensive laboratories and sensors. The container is also equipped with a six bay hangar deck used for specific location surveys.

For additional detail refer to Datasheet MVC-3

Statistics

Classification: Container

Category: Survey Container

Type: Class 7

Model: MK-XII

Dimensions:

Overall Dimensions (Meters)

Length: 235.05m

Width: 48.00m

Height: 49.21m

Displacement (Metric Tons)

Standard: 234,448mt

Full Load: 355,891mt

Duration (Years)

Standard: 15 Years

Maximum: 20 Years

Std. Container Complement: 366

Officers: 36

Crew (Ensign Grade): 330

Passengers: 30

Emergency condition: +200

Medical Facilities:

Doctors: 5

Nurses: 12

Operating Rooms: 4

Beds: 15

Transporters Total: 10

1 Person: 0

2 Person: 0

6 Person: 4

12 Person: 0

22 Person: 2

Small Cargo: 0

Medium Cargo: 4

Large Cargo: 0

Super Cargo: 0

Mega Cargo: 0

Tractor Beams: 0

Tow Capacity: N/A

Max. Range: N/A

Cargo Specification:

Standard Cargo Units: 300

Cargo Capacity: 15,000 mt

Deck Height: 2.4 m

Shuttlecraft Specifications:

Shuttlecraft Bays Total: 1

Small Bay: 0

Medium Bay: 1

Large Bay: 0

Super Bay: 0

Shuttlecraft Standard: 24

Work Bess: 2

Travel Pods: 2

Light Shuttle: 1

Aquatic Shuttle: 2

Shuttle Standard: 4

Heavy Shuttle: 2

Survey Shuttle: 10

Heavy Fighter: 0

Lifeboats: 22

Turbolift (8 person): 12

Lifeboat (10 person): 0

Lifeboat (20 person): 0

Lifeboat (30 person): 10

Docking Rings: 2

Sensor Input Values:

Planetary Survey: 1.566

Short Range: 1.754

Long Range: 1.344

Navigation: 0.501

Special: 1.622

Computers: 1

Type: Daystrom Ductronic IIa

Shield Rating:

Holdoff Power: 3.24E8

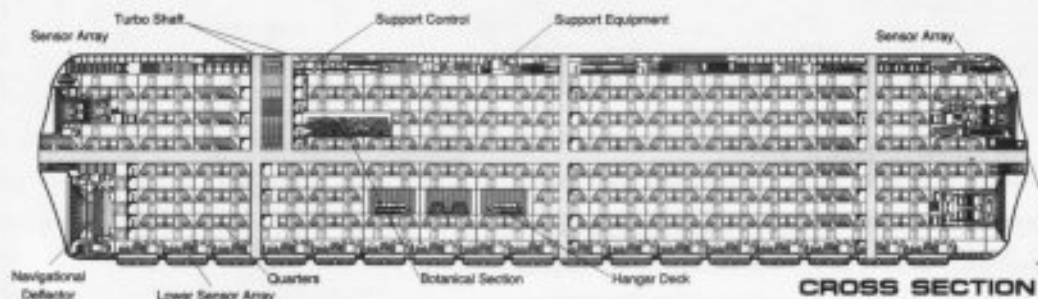
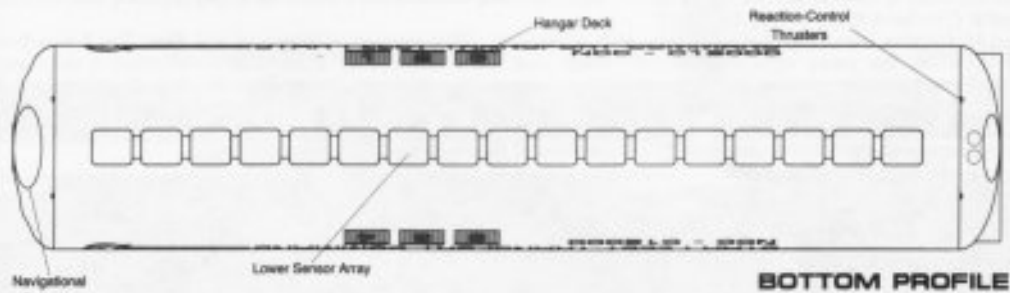
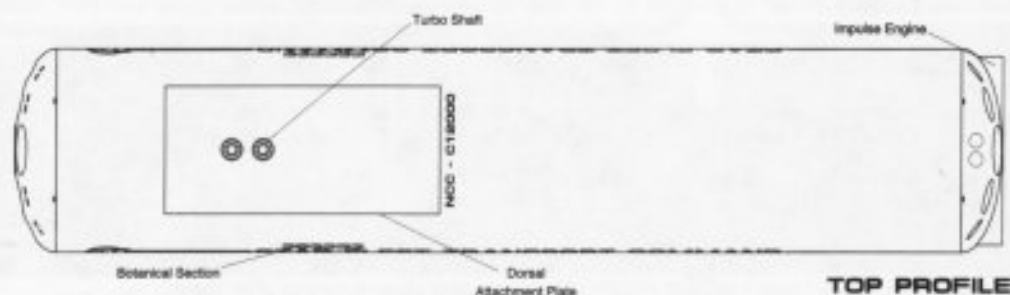
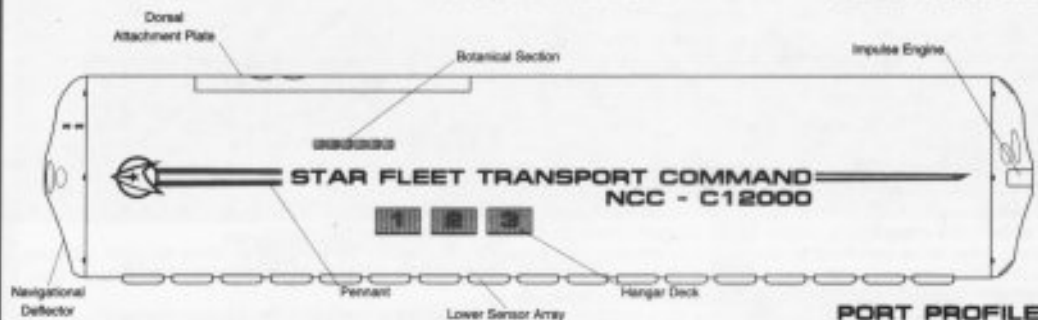
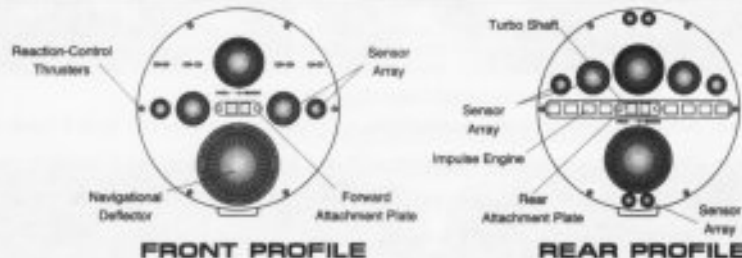
Refresh Rate: 9.21E7

Shield Dimensions (Meters)

Length: 282.01m

Width: 57.6m

Height: 57.6m



DELIVERANCE CLASS

FEDERATION CONTAINER



Closing Information

Closing

First off I would like to express my thanks to you for purchasing this book. I have tried to give the most information that I can for each ship without reducing the number of ships described. This in turn has lead to small print. I hope that this is not an inconvenience to anyone and if it is, I would like to express my deepest apology.

Stardate Errata

In place of the stardates, I have used the actual YEAR.MONTH due to the fact that I can not get an accurate stardate, as every group has a stardate system that while close do not all match (Some systems differ by as much as 50 years). To achieve the stardate you need just use the date given and apply it to the stardate system you are acquainted with.

Warp speed Errata

I have had a number of people inquire as to why I have used the new warp curve system on older ships. The thing to understand here is that this curve also fits the older ships and is simply a conversion; when I get around to drawing the new ships the statistics will match and a ship to ship comparison can be made. A conversion chart has been included at the beginning of the ship section so that you can convert back to the old warp numbers.

Acknowledgments

I would like to acknowledge the many people, places, movies, magazines and reference materials that I have use to get the most accurate information for my work.

First off I would like to thank my wife Diane for encouraging me to reprint this book and her proof reading that helped catch a number of mistakes that I had missed (*forest for the trees*).

I would also like to mention Franz Joseph for his original work which a number of ships in this book are based on, his work has influenced every starship design that has ever been created.

I would like to thank the following magazines: Starlog, Future, Fantastic Films, Challenge, Stardate, Cinefex, Science Fiction Modeler, Fine Scale Modeler, Galactic Engineers Concordance and Digest Group for all the photos and excellent articles and insight that these magazines have given me in my research.

I would like to thank Chris Hatfield for his friendship and extensive help in re-writing my text in an effort to provide a better product.

I would like to thank Alex Rosenzweig for his help in the NCC numbering for the new ships in this book and by sending me a copy of his ship database which saved me a large amount of time and helping create the Ship Names for the New ships in this expanded version of Volume 1.

I would also like to make note of Roy Firestone for his publication Galactic Engineers Concordance which was a non profit Techzine that he published which is made up of contributions from his readers. Various articles that have been included have helped in my train of thought for creating my starship designs. Thanks to Roy and the contributors of GEC.

I would like to thank Thomas Sasser for providing me with some detailed information for the 1701-A.

I would like to thank Magne Kristiansen, Richard Fisher, Don Shanks, Paul Hollingsworth, Scott Bell, and Shane Johnson for their suggestions and proofing that helped me catch errors that might have slipped through if they had not spotted them.

I would also like to thank all the people who were involved in the original stories and artwork creations. By looking at their models, photos, sketches and story lines I was able to draw additional craft that I hope still retained much of the flavor of the original story. I am sorry that I am not able to list their names but in many instances I have no idea who these individuals are.

Special thanks to my wife Diane for pushing me to redraw and reprint this book (if it had not been for her encouragement I would not have done it) and for her putting up with my crazy work hours to finish it, thanks honey.

My daughters Jaculynn and Jillian (where the name Jackill came from) for the daily reminders of the sweet things in life with their smiles and hugs.

And special thanks to my son's Derek, Joshua and Michael for their support and understanding through this project.

I would also like to give special mention Anthony "Tiny" Abbe for his help on my first book, who he so politely pointed out that I forgot to mention him, sorry Tiny I'm just not worthy.

And finally I would like to thank Eugenio Angueria III for his contribution. Although he does not know it, a page he sent me caused me to include the tractor beam calculator for each ship. I modified the standard tractor beam calculator for the various warp speeds. And also thanks for his starship idea contributions that appear in Vol. 2.

Ship Classes named after individuals

• U.S.S. Lynch - Light Destroyer (Chris Lynch) • U.S.S. Pense - Long Range Destroyer (Brad Pense) • U.S.S. Abbe - PT Destroyer (Anthony "Tiny" Abbe) • U.S.S. Hatfield - Command Cruiser (Chris Hatfield) • U.S.S. Iverson - Cruiser (Steve Iverson) • U.S.S. Shanks - Light Cruiser (Don Shanks) • U.S.S. Hatfield - Command Cruiser (Chris Hatfield) • U.S.S. Murphy - Tactical Frigate (Aaron Murphy) • U.S.S. Hensley - Heavy Transport/Tug (Charles Hensley) • U.S.S. Fisher - Light Transport/Tug (Richard Fisher) • U.S.S. Moncrief - Transport/Tug (Jay Moncrief). The ships were named after people that I have know and I felt worthy of having a ship classes named after them.

What was required to produce this book

I want to include a little information on what it took to produce this book. My first book was Jackill's Guide to Light Attack Craft (Volume 1) which was produced using MacDraw II (The best thing out at the time).

For my other books I have switched to Canvas (Available for both Mac and Windows). This version of Ships of the Fleet Vol.1 has been completely redrawn from the ground up. Over the years with the help of friends and the Internet I have been able to collect a very large database of research material that has allowed me to make much more accurate drawings. The first printings of this book took up around 34 Meg and has increased to 296.6 Meg in this printing due to increased detail and additional material included (my first book, Light Attack Craft Vol.1, was around 6 Meg, and my third, Ships of the Fleet Vol.2, was around 46.5 Meg, with *power comes detail*. This book has also been printed using digital files that were sent to the printer to increase the resolution of the drawings I hope you enjoy.

Information About Back Page

I have provided the contact information to a number of groups that my readers might also like to get hold of. All of these groups are provided space free of charge as my way of helping Trek Fandom expand and hoping that in the long run more movies and materials will be produced.

Concern (My own personal soap box)

As I watch the world around me I see so many injustices that happen to children. Please keep an extra eye on the children around you, you just might be able to protect the innocence and maybe the life of a child.

Warnings & Disclaimers

WARNING: This book attracts every other piece of matter in the universe, including books from other publishers, with a force proportional to the product of the masses and inversely proportional to the square of the distance between them.**

ADVISORY: There is an extremely small but nonzero chance that, through a process known as "tunneling," this book may spontaneously disappear from its present location and reappear at any random place in the universe. The publisher will not be responsible for any damages or inconvenience that may result from this missing book.**

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Jackill's
STARFLEET REFERENCE MANUAL

Ships of the Fleet
Volume I



1

A-ERA