This book is a fictional work

Star Trek, Star Trek: The Next Generation, Star Trek: Deep Space Nine, are trademarks of Paramount Pictures. This book is not sponsored, approved or authorized by Paramount Pictures. This is a scholarly work intended to explain Trek technology in real statistics to show what is needed to reach these levels of technology. All ideas in this book are expressed as a continuation of thoughts covering the American pop culture associated with Treknology. Some of the vessels included in this manual are the creation of others that have appeared in Federation publications. Their inclusion in this book is not intended as an infringement of their copyright in any way, but rather is done in the interest of maintaining continuity. No photos or artwork appearing in this book are copyright of Paramount Pictures. All artwork contained in this book is original.

First printing January 1995

10 9 8 7 6 5 4 3 2 1

Printed in United States of America
Dedication

To Chris Hatfield
Thanks for all of your help on my books

Intro Info
Welcome reader to the first edition of Jackill's Star Fleet Reference Manuals. The descriptions of these futuristic vessels are a critique of their abilities and are related in contemporary terms as accurately as possible. The technology described here can be compared to existing technologies in other books, on television and in the movies. Hopefully, the information herein will provide a base of knowledge allowing one to understand the advancements required to achieve this level of technology. The book is presented in a futuristic format for reading enjoyment and should not be confused with any material from that period.

The information contained in this manual is as accurate as allowed due to Star Fleet's ongoing program of misinformation intended to confound and confuse the intelligence efforts of potentially threatening forces. For high-level accuracy, consult Star Fleet archives.

Although not all statistics are given, all descriptions, drawings and statistics are intended to familiarize the reader with these vessels. Numerical statistics, such as weight and length, are given with the highest degree of accuracy available at the time of publication.

Read on fellow traveler, I hope that the information provided will increase your understanding of Life, the Universe and Everything.

Jackill

( Eric Kristiansen 1995)
null
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. Most shuttle craft are designed for almost continuous duty, especially cargo and personnel craft. These vehicles often provide support and maintenance when a star-vessel's main systems are off-line in space dock, transporters are unsuitable for a particular mission, or a larger vessel is not needed for the job.

Size Comparison

- Cargo Shuttle
- Standard Shuttle (DockPort)
- Passenger Shuttle
- Light Shuttle (DockPort)
- Heavy Assault Shuttle
- Cargo Shuttle (DockPort)
- Heavy Fighter
- Long Range Shuttle (DockPort)
- Shutug (Tug Shuttle)
- Warp Sled (DockPort)
The Cargo Shuttle's primary mission is supply and bulk goods transport. All starbases have fleets of cargo shuttles and starships usually have one or two. Even the most sophisticated transporter system achieves an efficiency rating of 34%. Most shuttle engines however, have a 73% efficiency rating at normal output therefore, making it still cheaper to transport bulk goods by shuttle.

Physical Description: The Cargo Shuttle's boxy hull is equipped with two doors on either side of the cockpit. An exterior utility access panel, just ast of the port-side personnel hatch, provides power and refueling hookups while the shuttle is being loaded and unloaded. The crew sit beneath the large canopy in the nose of the craft. No Phasers are included in the standard configuration. Propulsion is provided by (SIS12-2/50) impulse drive engines slung underneath like little feet. Cowlings have been added to the engines to help cool the plasma coils during atmospheric use.

Class: Gypsy
Ship: Type 5
Model: Mk-XXV
Construction Contract: CS-005

Overall Dimensions (Meters):
Length: 17.02
Width: 3.92
Height: 4.76
Displacement (Metric Tons):
Light: 12.28
Standard: 13.58
Full Load: 15.59

Performance:
Impulse Units: (SIS12-2/50)
Impulse Engine Output: 2.0x10^6 W
Max Cruising: 0.5
Acceleration Rate:
0.00-0.25 Impulse: 0.244 sec.
0.25-0.50 Impulse: 0.316 sec.
0.50-0.75 Impulse: 0.388 sec.
0.75-Full Impulse: 0.460 sec.

Warp Units:
Warp 0.5: N/A
Warp 0.75: N/A
Warp 0.9: N/A
Warp 1.0: N/A

Max Speed: N/A
Destructive Speed: N/A

Durations:
Standard: 5 years
Maximum: 20 years

Ship's Complement:
Crew: 1
Passengers: 16
Emergency condition: +10

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

Tractor Beam: 1
Tow Capacity: 7.92x10^9 W
Max Range: 9.35x10^1 km

Cargo Capacity: 4.0 Tons
Cargo Volume: 10.58

Docking Ports: 0
Cloaking Device: 0
Sensor Improvement: 0
Planetary Survey: 1.02
Stellar Survey: 0.00
Short Range: 1.103
Long Range: 9.98
Navigation: 0.997
Special: 0.986

Computers: 2
Type: Nornay-Magne 21x
Type: Nornay-Magne 14x

Shield Rating:
Holdoff Power: 4.58x10^9 W
Refresh Rate: 1.98x10^9 W
Breakdown Rate: 1.98x10^9 W

Shield Dimensions (Meters):
Length: 19.17
Width: 12.45
Height: 5.75

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 (Heavy Phasers) Total: 0
Output: N/A
Range: N/A
Rate of Fire: N/A
Forward Banks: 0
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: Gypsy Class
HEAVY ASSAULT SHUTTLE

General Information

Specific Role: The Heavy Assault Shuttle is used for precision assault and with its thick armor can deliver troops under brutal fire. It is designed to be crewed by a pilot and gunner/navigator, but can be operated by the pilot alone should the gunner/navigator become incapacitated or be unavailable at launch. For the purposes of planetary assault the Heavy Assault Shuttle is capable of .92 C in most atmospheres and can achieve warp at sub-orbital altitudes. The shock waves from such maneuvers can be as destructive as orbital bombardment.

Physical Description: The Heavy Assault Shuttles reinforced hull subtly resembles the head of an Earth snake called the Cobra. The crew, seated in the cockpit, is covered by an armored limited view canopy with a 100 degree field of view for defensive purposes. A [SMN12/2-6] navigational sensor assembly is located under the front portion of the craft. The shuttle is equipped with rapid cycle (BP2/12-10P) phasers mounted on either side of the hull just below the canopy reinforcement buttress. Located underneath the cockpit are [PB2/12-12A] photon missile launchers which are extruded down sufficiently to clear the forward sensor pod. Sub-light propulsion is provided by the impulse units located on the rear section of the craft on each side of the ganway hatch. Warp power is provided by (SX12/1-5BX) micro-nacelles mounted on each side of the hull.

Class Emblem

OGRE CLASS
HEAVY ASSAULT SHUTTLE

Statistics

Classification: Heavy Assault Shuttle
Category: Shuttlecraft
Class: Ogre
Type: Class 5
Model: MK-VI
Rural Construction Contract: AS-42

Dimensions:
Overall Dimensions (Meters): Length: 15.5m Width: 5.60m Height: 3.10m
Displacement (Metric Tons): Light: 7.26t Standard: 7.53t Full Load: 8.42t

Performance:
Impulse Units: Dual Unit [ID35E4-UP]
Impulse Engine Output: 8.5x10⁶ W
Max Cruising: 0.3
Acceleration Rate:
0.00-0.25 Impulse: 0.125 sec.
0.25-0.50 Impulse: 0.187 sec.
0.50-0.75 Impulse: 0.250 sec.
0.75-Full Impulse: 0.312 sec.
Warp Units: 2 Nacelle Units [SX12/1-5BX]
Warp Engine Output: 2.8x10⁷ W
Optimum Speed: Warp 2
Max. Safe Cruising: Warp 3
Emergency Speed: Warp 4
Max. Speed: Warp 4.4
Destructive Speed: Warp 4.8
Acceleration Power: 3.0
Acceleration Times:
Warp 1 - Warp 2: 2.215 sec.
Warp 2 - Warp 3: 2.697 sec.
Warp 3 - Warp 4: 5.124 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 9.8: N/A
Warp 9.8 - 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: 2
Passengers: 10
Emergency condition: +10
Transports Total: 1
1 Person: 0
2 Person: 1
6 Person: 0
Small Cargo: 0
Medium Cargo: 0

Tractor Beams: 1
Tow Capacity: 5.20x10⁹ mt
Max Range: 7.5x10⁷ km
Cargo Specification:
Standard Cargo Units: N/A
Cargo Capacity: N/A
Shuttlecraft Specifications:
Docking Ports: 0
Cloaking Devices: 2
Sensor Index Values:
Planetary Survey: 1.424
Stellar Survey: 0.942
Short Range: 1.256
Long Range: 1.110
Navigation: 0.982
Special: 1.155

Computers:
Type: Nornor-Magne 20u
Nornor-Magne 17g

Shield Rating:
Holdoff Power: 5.26x10⁹ W
Refresh Rate: 1.56x10⁴ W
Breakdown Rate: 1.85x10⁵ W
Shield Dimensions (Meters):
Length: 18.9m
Width: 7.82m
Height: 5.03m

Weapons:
Weapon Placement:
Beam (Phasers) Total: 6 Mounts
Output: 5.0x10⁶ W / 2.5x10⁷ W
Range: 2.5x10³ km
Rate of Fire: 20 ppm / Cont.
Forward Banks: 0
Rear Banks: 0
Port Banks: 3
Starboard Banks: 3
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: 4 Tubes
Stock: 30
Range: 2.0x10⁶ km
Output: 5-111 Megatons
Rate of Fire: 10 smp
Forward Bay: 4
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0

Craft Silhouettes

Total Target Area: 118.11 m²
Port Silhouette
Area: 35.49 m²
Top Silhouette
Area: 71.81 m²
Front Silhouette
Area: 11.15 m²

STARCRAFT REFERENCE MANUAL SRM3 02:02:02:02:01
HEAVY FIGHTER

General Information

Specific Role: The Heavy Fighter is used for precision assault, landing craft support and direct capital ship engagement. It is crewed by a pilot, navigator, and weapons officer. In emergencies the fighter may be operated, less effectively, by just the pilot. For the purposes of planetary assault the Heavy Fighter is capable of .99 C in most atmospheres and can achieve warp at sub-orbital altitudes. The shock waves from such maneuvers can be as destructive as orbital bombardment.

Physical Description: The Heavy Fighter’s distinctive low and wide profile offers little target area to enemy craft. The crew, seated in the cockpit in a triangular formation with pilot up front, is covered by a large canopy with a 180 degree field of view for excellent visibility. A (SDMN22/5-10) navigational sensor assembly is located on the underside of the craft. The fighter is equipped with rapid cycle (BP2/24-4J) heavy phasers mounted on either side of the hull just below the canopy. Located high on either side of the fuselage are (PB3/24-18A) photon missile launchers which are independently powered so that auxiliary power could be routed to the phasers during battle. Sub-light propulsion is provided by the impulse unit located at the rear of the craft. Warp power is provided by two (SW20/2-4AF) micro-nacelles mounted on each side of the hull.

Craft Silhouettes

Total Target Area 110.57 m²

Top Silhouette
Area 63.01 m²

Port Silhouette
Area 28.38 m²

Front Silhouette
Area 10.59 m²

Class Emblem

Yellow Jacket Class

FEDERATION CRAFT

STARFLEET REFERENCE MANUAL

SRM3 02:02:03:01

Yellow Jacket Class

HEAVY FIGHTER

Statistics

Classification: Heavy Fighter
Category: Fighter
Class: Yellow Jacket
Type: Class 5
Model: MK-VIII

Naval Construction Contract: SF-JT

Dimension:
Overall Dimensions (Meters):
Length: 13.18m
Width: 6.01m
Height: 2.57m

Displacement (Metric Tons):
Light: 7.16mt
Standard: 7.84mt
Full Load: 11.86mt

Performance:
Impulse Units: Dual Pack (IP42/E4-QS)
Impulse Engine Output: 1.3x10⁶ W
Max Cruising: C
Acceleration Rate:
0.00-0.25 Impulse: 0.107 sec
0.25-0.50 Impulse: 0.165 sec
0.50-0.75 Impulse: 0.200 sec
0.75-1.00 Impulse: 0.250 sec

Warp Units: 2 Nacelle Units (SW20/2-4AF)
Warp Engine Output: 4.8x10¹² W
Optimum Speed: Warp 6
Max. Safe Cruising: Warp 7
Emergency Speed: Warp 8
Max. Speed: Warp 8.5
Destructive Speed: Warp 9.5
Acceleration Power: 3.0

Acceleration Times:
Warp 1 - Warp 2: 0.149 sec
Warp 2 - Warp 3: 0.277 sec
Warp 3 - Warp 4: 0.486 sec
Warp 4 - Warp 5: 1.150 sec
Warp 5 - Warp 6: 1.228 sec
Warp 6 - Warp 7: 1.325 sec
Warp 7 - Warp 8: 1.695 sec
Warp 8 - Warp 9: 2.410 sec
Warp 9 - Warp 9.5: 5.357 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: 3
Crew: 3
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: 3.20x10⁶ mt
Max Range: 3.30x10⁵ km

Cargo Specifications:
Standard Cargo Unit: N/A
Cargo Capacity: N/A

Shuttlecraft Specifications:
Docking Ports: 0
Cloaking Devices: 0
Sensor Index Values:
Planetary Survey: 1.726
Stellar Survey: 0.988
Short Range: 1.145
Long Range: 1.160
Navigation: 0.999
Special: 1.952

Computers: 2
Type: Noray-Magne 24-g
Type: Noray-Magne 19-h

Shield Rating:
Holdoff Power: 5.24x10⁶ W
Refresh Rate: 1.78x10⁵ W
Breakdown Rate: 1.72x10⁵ W
Shield Dimensions (Meters):
Length: 14.49m
Width: 6.61m
Height: 2.82m

Watercraft:

Weapon Placement:
Beam (Phasers) Total: 2 Mours
Output: 5.0x10¹⁴ W / 2.5x10¹⁴ W
Range: 2.5x10⁶ km
Rate of Fire: 45 ppm / Cont.
Forward Banks: 2
Rear Banks: 0
Port Banks: 0
Starboard Banks: 0
Upper Banks: 0
Lower Banks: 0

Beam (Heavy Phasers) Total: 5
Output: 7.5x10¹⁰ W / 3.75x10¹⁰ W
Range: 4.0x10⁶ km
Rate of Fire: 30 ppm / Cont.
Forward/Rear Banks: 5
Port/Starboard Banks: 0
Upper/Lower Banks: 0
Missiles (Photon) Total: 6 Tubes
Stock: 180
Range: 2.0x10⁵ km
Output: 5-11 Megatons
Rate of Fire: 10spm
Forward Bay: 6
Rear Bay: 0
Port Bay: 0
Starboard Bay: 0
Upper Bay: 0
Lower Bay: 0
SHUTUG

General Information

Specific Role: The Shutug is a small and powerful tractor beam tow vehicle. It is primarily used around space-docks and planetary facilities. Since this craft was designed strictly for support duty it does not need warp engines. However, two Shutugs have enough impulse power to safely move a Heavy Cruiser.

Physical Description: The Shutugs boxy hull is equipped with two doors on either side of the cockpit. The pilot and tractor beam technician sit beneath the large canopy in the nose of the craft. Positioned on the front and on the top of the shuttle are (SNPA12/2-7) navigational sensor arrays. No Phasers are included in the standard configuration. Propulsion is provided by (SIS10-2/100) impulse drive engines slung underneath like little feet. Cowlings have been added to the engines to help cool the plasma coils during atmospheric use.

Class Silhouettes

Total Target Area 157.30 m²

Top Silhouette
Area 89.88 m²

Port Silhouette
Area 46.21 m²

Front Silhouette
Area 29.41 m²

Craft Emblem

Statistics

Classification: Shutug (Shuttle Tug)
Category: Shuttlecraft
Class: Clydesdale
Type: Class 5
Model: MK-XXIV
Navy Construction Contract: CS-104

Dimensions:
Overall Dimensions (Meters)
Length: 13.97m
Width: 7.05m
Height: 4.84m
Displacement (Metric Tons)
Light: 9.20t
Standard: 10.56t
Full Load: 12.59t

Performance:
Impulse Units: (SIS10-2/100)
Impulse Engine Output: 6.7x10⁶ W
Max Cruising: 0
Acceleration Rate: 0.00-0.25 Impulse: 0.344 sec.
0.25-0.50 Impulse: 0.416 sec.
0.50-0.75 Impulse: 0.568 sec.
0.75-Full Impulse: 0.530 sec.

Warp Units: 0
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. Ship Complement:
Crew: 1
Passengers: 3
Emergency condition: +4

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

Tractor Beams: 2
Tow Capacity: 7.82x10⁷ mt
Max Range: 9.35x10¹⁰ km

Cargo Specifications:
Standard Cargo Units: 4
Cargo Capacity: 10.58
Shuttlecraft Specifications:
Docking Ports: 0
Cloaking Devices: 0
Sensor Index Values:
Planetary Survey: 1.002
Stellar Survey: 0.998
Short Range: 1.103
Long Range: 0.998
Navigation: 0.997
Special: 0.996
Computers: 2
Type: Nornay-Magna 20-d
Type: Nornay-Magna 12-k
Shield Rating:
Holdoff Power: 4.22x10⁷ W
Refresh Rate: 1.62x10⁷ W
Breakdown Rate: 1.72x10⁶ W
Shield Dimensions (Meters)
Length: 15.42m
Width: 12.45m
Height: 8.58m

Weapons:
Weapon Placement:
Beam (Phasers) Total: 0
Beam (Heavy/Phasers) Total: 0

FEDERATION CRAFT

CLYDESDALE CLASS

EARTH SPACEDOCK

STARFLEET REFERENCE MANUAL
SRM3 02:02:04:01
General Information

Specific Role: The Passenger Shuttlecraft was designed to be esthetically pleasing to most passengers while providing an extremely wide field of view and comfortable safety margin. To help passengers egress, an integral stair-way extends from the warp-nacelle whenever the hatch is open. Although this craft has a phaser bank, it is not designed for combat.

Physical Description: The pilot and optional co-pilot sit side by side underneath the large rakish canopy in the nose of the flat, slender shuttle craft. The passengers seats can recline underneath a very large view-port covering the rear hull section. It has two main gangways located between the cockpit and the passenger compartment. Located in the bow of the shuttle is a (SMDN4/1-7) navigational sensor array. Sub light propulsion is provided by the impulse drive system located on the rear of the craft. Warp power is provided by two (SW18/1-4iS) micro-nacelles which are mounted on each side of the hull.

Class Emblem

Class: Caretaker
Type: Class 5
Model: MK-XX
Nacel Construction Contract: PS-D1
Dimensions:
- Overall Dimensions (Meters): Length: 18.19m, Width: 7.80m, Height: 3.32m
- Performance:
  - Impulse Units: Dual Unit (IP72E/3-CC)
  - Impulse Engine Output: 1.2x10^6 W
  - Max Cruising: C
  - Acceleration Rate: 0.00-0.35 Impulse: 0.140 sec, 0.35-0.50 Impulse: 0.210 sec
  - Max. Safe Impulse: 0.280 sec, 0.75-Full Impulse: 0.350 sec
  - Warp Units: 2 Nacelle Units (SW18/1-4iS)
  - Warp Engine Output: 2.4x10^7 W
  - Optimum Speed: Warp 3
  - Emergency Speed: Warp 4.2
  - Max. Speed: Warp 4.5
  - Destructive Speed: Warp 4.9
  - Acceleration Power: 3.0
  - Acceleration Times:
    - Warp 1 - Warp 2: 2.872 sec
    - Warp 2 - Warp 3: 3.436 sec
    - Warp 3 - Warp 4: 6.268 sec
    - Warp 4 - Warp 5: 11.031 sec
    - Warp 5 - N/A
    - Warp 6 - N/A
    - Warp 7 - N/A
    - Warp 8 - N/A
    - Warp 9 - 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: 3
    - Passengers: 36
    - Emergency condition: 18
  - Transporters Total: 1
    - 1 Person: 0
    - 2 Person: 1
    - 6 Person: 0
    - Small Cargo: 0
    - Medium Cargo: 0

Craft Silhouettes

Total Target Area: 182.16 m²

Port Silhouette
Area: 45.52 m²

Top Silhouette
Area: 118.84 m²

Front Silhouette
Area: 17.60 m²
**Dockport Craft**

**General Information**

**General Description:** The Dockport Craft, originally designed by the Taiya Design Institute of Vulcan, was adopted for use throughout the Federation. These craft are used by Federation officials, ambassadors, and starfleet personnel for transportation within the Federation's borders. They are designed and built around the accepted federation standard docking ring. These vehicles can travel for several standard months with only moderate resupply during rendezvous. All Taiya Dockport craft are designed to use the same warp-sled and most auxiliary attachment systems.

**Light Shuttle:** The Chisu Class Light Shuttle is generally used for transporting no more than six passengers at a time. Forward is the wedge-shaped atmospheric shield protecting the nose of the craft. Access is through the port side access hatch, rear docking tube and lower iris hatch. The shuttles (SME22/2BC) sensor array is located on the underside. Protection is provided by three (BP1/6-1D) phasers, one just forward of the sensor array and two located port and starboard on the upper deck.

**Cargo:** The Fikaru Class Cargo Shuttle is used for transporting cargo, crewed by a pilot and can carry optional passengers. Forward is the wedge-shaped atmospheric shield protecting the nose of the craft. Access is through the port side access hatch, rear docking tube, port/starboard cargo hatches and upper/lower iris hatches. The shuttles (SME22/2GH) sensor array is located on the underside. Protection is provided by four (BP1/6-1D) phasers, two just forward of the sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3/5-Q) impulse unit. (Fikaru: Vulcan for strong)

**Standard:** The Manasus Class Standard Shuttle is the original Vulcan shuttle design. Two crew and eight passengers are standard compliment. Forward is the wedge-shaped atmospheric shield protecting the nose of the craft. Access is through the port side access hatch, rear docking tube/upper and lower iris hatches. The shuttles (SME22/2TY) sensor array is located on the underside. Protection is provided by four (BP1/6-1D) phasers, two just forward of the sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3/5-Q) impulse unit. (Manasus: Vulcan for leg)

**Heavy Shuttle:** The Atai Class Heavy Shuttle has a standard crew of four and up to fourteen passengers. Forward is the wedge-shaped atmospheric shield protecting the nose of the craft. Access is through the port side access hatch, rear docking tube and upper/lower iris hatches. The shuttles (SME22/2EK) sensor array is located on the underside. Protection is provided by four (BP1/6-1D) phasers, two just forward of the sensor array and two located port and starboard on the upper deck. Propulsion is provided by an internal (DP3/5-Q) impulse unit. (Atai: Vulcan for fur)

**Warp Sled:** The Tai Class Warp Sled adds extended warp capability to the Taiya Dockport craft. The sled can cruise at warp 4 with a max. speed of warp 4.78. The sled is designed around a shuttle attachment platform with two (BP25E/4-1U)/ISW25/2-105 impulse/micro-warp nacelles snug to each side. The sled is equipped with a (SME22/2ED) sensor array. (Tai: Vulcan for long)

**Modules**

**Aquatic Encasement:** This device seals the sensitive components underneath the Taiya Dockport craft and provides buoyancy and propulsion at depths of 100 meters or less.

**Communication Module:** Provides high gain reception and high power transmission for deep space communications.

**Fuel Module:** Adds fuel storage to extend power reserves and range of Dockport craft.

**Impulse Module:** Provides additional impulse power to Dockport craft.

**Manipulation Module:** Adds manipulator arms to the front of Dockport craft.

**Micro Warp Nacelles:** Adds light warp capabilities to the Taiya Dockport craft.

**Phaser Module:** Adds medium phaser capability for basic defense and cutting.

**Photon Torpedo Module:** Adds photon missile capability to the shuttle.

**Research Module:** Adds research gathering and wide-band diagnostic tools.

**Sensor Array Module:** Adds focused specific band probing capability.

**Survey Module:** Used by small science teams for stellar body surveys.

**Tractor Beam Module:** Adds tractor beam towning and manipulation capability to the shuttle.

**Tow Hitch Module:** Adds physical towing connections to unusual objects.

**Medical Pod:** Provides medical facilities for Dockport craft comprised of 2 doctors, 14 emergency bunks and light surgical facilities.

**Passenger Pod:** Adds independently powered accommodations for 20 passengers.

**Cargo Pod:** Doubles the volume of cargo space to any Dockport craft.

**Light Cargo Pod:** Adds a little extra cargo space to any Dockport craft.
DockPort Craft

Heavy Shuttle

Class Emblem

Craft Silhouettes

Total Target Area 290.12 m²

Top Silhouette

Area 188.44 m²

Front Silhouette

Area 47.64 m²

Port Silhouette

Area 53.84 m²

Atai Class

Heavy Shuttle

Starbase One
NCC-80488/84

Starfleet Reference Manual

SRM3 02:03:01:07
Buoys

Many types of buoys are required for the safe navigation and expansion of Federation borders. Most of the buoys are strictly general purpose navigational aids however, there are several specific mission units.

Approach Position Beacon

**General Description:** These buoys, referred to as A.P.B.s, are often placed on the outskirts of solar systems and extremely cluttered areas for navigational reference purposes. They also provide precise guidance information for navigating hazardous debris fields and complex planetary systems. A Galactic time-base is included in the standard configuration.

Colony Buoy

**General Description:** The Colony Buoy is usually placed in orbit over a colony planet. This buoy provides sub-space communications, orbital surveillance and general sensor sweeps of the colony planet for survey related work.
**Communication Buoy (CB-1/KK2)**

**General Description:** The Communication Buoy is usually placed in orbit over a planet or several are seeded in a solar-system. This buoy provides over 200,000 channels of long-range sub-space communications for peripheral worlds and deep-space facilities. A Galactic time-base is included in the standard configuration.

**Guardian Buoy (GRD-1/LMN)**

**General Description:** Guardian Buoys provide a space-borne submarine net. Generally used to keep small craft from infiltrating sensitive areas it has a standard ships phaser capable of firing every half second at full power for 5 minutes. The buoy also features ship recognition, E.C.M. and sub-space field detection capabilities. This buoy, although quite sophisticated, cannot stop a starship however, many Guardian Buoys could provide a delay until help can arrive. When compromised the buoy will explode with a 1000 cubic meter incineration radius.

**Hazard Buoy (HZ-1/VBC)**

**General Description:** The Hazard Buoy uses a broad-band low intensity antenna to broadcast to all known species warnings about planetary plagues, radio-active intense areas, black holes and miscellaneous anomalies. The buoy can also record messages for a detailed description of its warning and store information on similar subjects for medical or scientific analysis. A Galactic time-base is included in the standard configuration.
**Isolation Buoy**

**ISO-1 / X15**

**General Description:** The Isolation Buoy is specifically used for planetary isolation and solar-system-wide quarantines. Often used to warn would-be visitors, these buoys help enforce the prime directive. This buoy can also remember violations for future prosecution by recording an offending ship's sub-space field configuration.

**Marker Buoy**

**MKR-1 / GWE**

**General Description:** The Marker buoy is a simple device allowing a particular position to be marked to high degree accuracy. Starships carry a few of these buoys since they can be particularly useful as a positional reference when guidance systems have failed or been damaged. Sometimes Marker Buoys are used by starships as a life-boat to study space anomalies such as temporal rifts and black holes.

**Navigation Buoy**

**NV-A / BBC**

**General Description:** Whenever a ship travels at warp speed for extended periods, spatial displacement and sub-space distortion can cause minor guidance system discrepancies. It is routine for a starship to recalibrate its guidance systems when encountering these buoys. A Galactic time-base is included in the standard configuration.
**Ration Buoy**

**General Description:** Ration buoys are generally placed along space lanes where traffic is sparse. Should a vessel become damaged or destroyed with little or no warning, survivors in life-boats, escape-pods and shuttlecraft can find food, water and rescue beacons in these buoys.

---

**Spacelane Marker Buoy**

**General Description:** To guide commercial traffic through the many dangers of navigating space. Spacelane Marker Buoys are placed every 5 light-years in standard usage and every million kilometers for particularly difficult to navigate areas. A Galactic time-base is included in the standard configuration.

---

**Spaceport Buoy**

**General Description:** These buoys are often used in strings around spaceports to provide "roads" for support craft, such as cargo shuttles, and precise guidance for starships to the space-docks. They also broadcast instructions for proper docking procedures and a list of services available at each dock.
**Communication Relay Buoy**

*General Description:* The Communication Relay Buoy is most often used between Federation worlds for heavy communications traffic. These buoys are not always placed near space lanes, instead they are placed at line of sight intersections between several worlds or starbases. These units can be used back to back or near other relay buoys such as the Communication Buoy or the Heavy Communication Buoy to form relay networks.

---

**Heavy Communication Buoy**

*General Description:* The Heavy Communication Buoy is usually placed in orbit over a planet or in a solar-system. This buoy provides over 500,000 channels of long-range sub-space communications for peripheral worlds and deep-space facilities. A Galactic time-base is included in the standard configuration.
**Perimeter Defense Buoy**

**PD-1/340T**

**General Description:** Perimeter Defense Buys provide a space-borne submarine net. Generally used to keep small starships from penetrating sensitive areas. It has 2 standard ships phasers capable of firing every .3 seconds at full power for 7 minutes. In addition to E.C.M., and sub-space field detection capabilities, this buoy can be remotely controlled from a planet's surface or even a distant space station. This buoy can damage or destroy small starships and several Perimeter Defense Buys could provide a substantial defense until help can arrive. When compromised, the buoy will explode with a 1000 cubic meter incineration radius.

**Regional Marker Buoy**

**RM-1/PS6**

**General Description:** Regional Markers help define explored areas of space by providing navigational information and references for each sector. Any Federation vessel can access the storage banks in these buoys and send or receive navigational updates, information on planetary cultures and a record of previous contacts. A Galactic time-base is included in the standard configuration.
**Surveillance Buoy**

**General Description:** The Surveillance buoy is used to covertly monitor pre-contact civilizations, terrorist activities and potential military targets. Although this buoy can remain cloaked, it's communications are hampered therefore, it is only cloaked against sensor sweeps. To help avoid detection, communications are handled through tight-beam burst transmissions. When compromised the buoy will explode with a 1000 cubic meter incineration radius.

**System Traffic Buoy**

**General Description:** Designed specifically for densely populated areas, the System Traffic buoy can send and receive 39,000 multiplexed channels continuously. They are often placed in multiple M-Class solar systems where communications between planets is demanding.
STARSHIPS

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, Warships, Carriers, Scouts, Research vessels and Medical ships, Support vessels and Containers.

Scouts have a two-fold role in Federation policy: forward observation and exploration. They are equipped with extensive sensor arrays, heavy weapons and shields. This equipment allows scouts to move in advance of Federation ships on observation and reconnaissance missions. The scouts' extensive sensors are also used for the Federation's extensive exploration of space.

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 capable of 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 overdue without communication, a heavily armed vessel is sent out to ascertain its whereabouts.

Research Vessels are designed for a wide range of exploration and research applications. These vessels are equipped with precision sensors and comprehensive research facilities.

Medical Ships are designed as mobile hospitals allowing them to provide medical support and emergency medical care throughout the Federation.

Warships are designed for defense of the Federation. They are equipped with heavy weapons, shields and more powerful drive systems. Together these allow warships to respond to threats and counteract enemy operations. One of the primary roles of the warship fleet strategy is to effectively engage enemy vessels in ship to ship combat. When military action is not necessitated, the ships are used for support missions throughout the Federation.

Carriers are designed for the support, transportation, launching and recovery of shuttles, fighters and other small craft. Both military and non-military missions are within the scope of carrier operations for the range.

Freighters are designed for the transportation of materials and goods throughout the Federation.

Tugs are designed for the movement of large objects through the use of massive tractor beams.

Tenders are designed for the caring, repair and maintenance of ships and space objects when a repair facility is not available or required.

Fuel Carriers are designed for the transportation of fuel throughout the Federation.

Passenger Ships are designed for the transportation of passengers throughout the Federation.

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 Specifications

Starfleet Reference Manual
**CRUISER**

**General Information**

**Specific Role:** The Cruiser is a moderately armed, general purpose, defense capable exploration and research vessel. This graceful birdlike cruiser is equipped with powerful shields, long-range sensors and is quite maneuverable.

**Physical Description:** The (BS20/C-U8) bridge is centered on top of the (PH290/C-L5) primary hull and the (DN8/6N) navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (DU/58-12F) connecting dorsal mates the primary hull to the (SH258/C-L4) secondary hull. Two (PB2/50-20G) photon torpedo bays and two (BP2/30-2C) phaser banks are located fore and aft of the secondary hull. Four (BP1/30-2C) phasers are mounted underneath as well. Just above the forward photon bay is a (TB5/E40) tractor beam emitter and below is the (DN6/6A9) main navigation deflector. Just below the rear photon bay is a large cargo/hangar bay. The (M50/28-4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (IRF70E/8-IR) dual impulse unit located on the rear of the primary hull provides sub-light propulsion. For warp propulsion two (SW104/2-10RT) nacelles are supported by (DU/70-12F) support pylons mounted half-way back on the secondary hull. 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.
### Cross Section

#### Statistics

- **Classification**: Cruiser
- **Catagory**: Cruiser
- **Class**: Solaris
- **Type**: Class 1
- **Model**: MN-X11
- **Naval Construction Contract**: 2401B
- **Number Proposed**: 48
- **Number Constructed**: 48
- **Number In Service**: 45
- **Number Lost**: 3

#### Dimensions
- **Overall Dimensions (Meters)**
  - Length: 397.32 m
  - Width: 177.21 m
  - Height: 83.23 m

- **Primary Hull Dimensions (Meters)**
  - Length: 198.51 m
  - Width: 177.21 m
  - Height: 30.71 m

- **Secondary Hull Dimensions (Meters)**
  - Length: 145.74 m
  - Width: 48.49 m
  - Height: 20.43 m

- **Displacement (Metric Tons)**
  - Standard: 248356
  - Full Load: 297036

- **Performance**:
  - **Impulse Units**: Dual Unit (IRF70E/8-IR)
  - **Impulse Engine Output**: 1.64E+14 W
  - **Impulse Power Index**: 1.41

- **Max Cruising**: C
- **Max Impulse Power**: 1.72 sec
- **Max Impulse Capacity**: 1.02 sec

- **Torpedo Total**: 14
  - 1 Person: 0
  - 2 Person: 0
  - 6 Person: 0
  - 12 Person: 0
  - 22 Person: 0
  - Small Cargo: 1
  - Medium Cargo: 1
  - Large Cargo: 0
  - Super Cargo: 0

- **Shuttlecraft Standard**: 34
  - Work Bees: 2
  - Travel Pods: 2
  - Aquatic Shuttle: 1
  - Light Shuttle: 1
  - Standard Shuttle: 8
  - Heavy Shuttle: 1
  - Cargo Shuttle: 1
  - Assault Shuttle: 4
  - Killer Bees: 3
  - Light Fighter: 4
  - Fighter: 4
  - Heavy Fighter: 3
  - Lifeboats: 65
  - Turbolift (8 person): 32
  - Lifeboat (110 person): 23
  - Lifeboat (20 person): 9
  - Lifeboat (30 person): 1

- **Cloaking Devices**: 0

- **Sensor Index Values**:
  - Planetary Survey: 0.7555
  - Stellar Survey: 0.7647
  - Short Range: 0.9584
  - Long Range: 0.9700
  - Navigation: 0.9880
  - Special: 0.7463

- **Computers**: 2
- **Type**: Dayton Duostronic 40/4
- **Type**: Dayton Duostronic 80/4

- **ECM Index**: 0.99
- **Shield Rating**:
  - Shield Index: 1.03
  - Holdoff Power: 1.1E+12 W
  - Refresh Rate: 3.29E+11 W
  - Breakdown Rate: 3.94E+11 W

- **Shield Dimensions (Meters)**
  - Length: 140.25 m
  - Width: 265.82 m
  - Height: 124.85 m

- **Weapons**
  - Phaser Power Index: 0.875
  - Photon Power Index: 0.667

- **Vessel Power Index**: 0.771

- **Weapon Placement**
  - Beam (Phasers) Total: 14 banks 2 each
  - Output: 7.50E+11 W / 3.7E11 W
  - Range: 4.10E+05 km
  - Rate of Fire: 40 ppm / Cont.
  - Forward Banks: 2
  - Rear Banks: 2
  - Port Banks: 4
  - Starboard Banks: 4
  - 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**: 4 Bays
  - Stock: 80
  - Range: 2.90E+05 km
  - Output: 10:55 Megatons
  - Rate of Fire: 15 rpm
  - Forward Bay: 2
  - Rear Bay: 2
  - Port Bay: 0
  - Starboard Bay: 0
  - Upper Bay: 0
  - Lower Bay: 0

---

**SRM3 04:02:01:02**

**STARFLEET REFERENCE MANUAL**

**FEDERATION SOLARIS VESSEL CRUISER**
General Information

Specific Role: The Dreadnought is an immense starship capable of massive destruction and is often used to display a show of force in troubled areas. It is equipped with extremely powerful shields and sensors as well as extensive ECM systems. This vessel can take quite a beating. During military operations, the dreadnought is used as a point assault ship and for main-line defense.

Physical Description: The (BS25/C-U8) bridge is centered on top of the (PH322/C-T5) extended primary hull and the (DN8/6N) navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. A two piece integral (DU/210-44F) connecting dorsal mates the primary hull to the (SH355/C-L8) secondary hull. Two (PB2/50-20G) photon torpedo bays are located for and aft and two (BP2/60-2C) phaser banks are located above and below the hangar bay. Two banks of (BP2/30-2C) phasers are mounted underneath as well. Just above the forward photon bay is a (TB5/E40) tractor beam emitter and below is the (DN10/A18) main navigation deflector. Just above the rear photon bay is a large cargo/hangar bay. The (M100/42-4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (IRF70E/10-IR) dual impulse unit located on the rear of the primary hull provides sub-light propulsion. For warp propulsion two (SW104/2-10RT) nacelles are supported by (DU/70-12D) support pylons mounted to the back of the secondary hull and a third warp nacelle on top is attached just forward of the main impulse drive by a (DU/50-12T) support pylon. 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.
DREADNOUGHT

Ship Names

THE FOLLOWING SHIPS OF THE MK-Xa CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2287.2

AFFILIATION • NCC-21068
AFFINITY • NCC-21348
ALLIANC • NCC-21138
ALLMAN • NCC-21468
ARCHANGELESE • NCC-21058
ARRANGEMENT • NCC-21388
ASSOCIATION • NCC-21188
CONCLAV • NCC-21388
CONCORD • NCC-21388
CONFEDERATION • NCC-21438
CONFEDERATE • NCC-21388
CONGRATEGY • NCC-21048
CORPORATION • NCC-21048
DIRECTORATE • NCC-21108
DISTRICT • NCC-21438
DOMINION • NCC-21158
ENTENTE • NCC-21288
FEDERATION • NCC-21008
F对照 • NCC-21388
GATLIN • NCC-21488
FOUNDATION • NCC-21368
IMPLICATION • NCC-21388

KINSHIP • NCC-21328
KONKORDIUM • NCC-21068
KONITHER • NCC-21028
ORGANIZATION • NCC-21118
PARTICIPATION • NCC-21328
PRATICO • NCC-21488
PROVINCE • NCC-21378
REALM • NCC-21308
REGION • NCC-21468
ROADMAN • NCC-21478
SECTOR • NCC-21318
SAGGAR • NCC-21148
STAR EMPIRE • NCC-21168
STAR LEAGUE • NCC-21018
STAR SYSTEM • NCC-21078
STAR UNION • NCC-21218
SYSTEM • NCC-21388
TERRITORY • NCC-21228
TRUSTEE SHIP • NCC-21178
UNIFICATION • NCC-21438
UNION • NCC-21268
UNITY • NCC-21388
WARD • NCC-21348
WIDMEN • NCC-21418

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

Tractor Beam Specifications

Primary Tractor Beam Load Calculator

Warp Fields

SRM3 04:02:02:04

STARFLEET REFERENCE MANUAL
**HEAVY CRUISER**

**General Information**

**Specific Role:** The Heavy Cruiser is a well armed, general purpose, defense capable vessel. Built to replace the Enterprise class, the Excelsior maintains classic lines and similar duties in diplomacy and exploration.

**Physical Description:** The (BS20/C-U8) bridge is centered on top of the (PH290/C-L5) primary hull and the (DN8/6N) navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (DU/190-4F) connecting dorsal mates the primary hull to the (SH258/C-L4) secondary hull. Two (PB2/50-20G) photon torpedo bays are located fore and aft and two (BP2/60-2C) phaser banks are located above and below the hangar bay. Two banks of (BP1/30-1C) phasers are mounted underneath as well. Just below the forward photon bay is the (DN10/A18) main navigation deflector. Just above the rear photon bay is a large cargo bay. A large hangar bay is located underneath the secondary hull. The (M80/24-4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (IRF70E/8-IR) dual impulse unit located on the rear of the primary hull provides sublight propulsion. For warp propulsion two (SW104/2-10RT) nacelles are supported by (DU/75-15F) support pylons mounted towards the rear of the secondary hull. 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.
Ship Names

The following ships of the Mk-Ix class were authorized by the amended articles of federation of Stardate 2295.2

Acheron - NCC-1732B
Alferaz - NCC-1739B
Alfr - NCC-1741B
Androcus - NCC-1738B
Annobon - NCC-1752B
Ari - NCC-1756B
Astraeon - NCC-1756B
Berling - NCC-14322
Eoin - NCC-1712B
Cair - NCC-4213B
Caspar - NCC-1738B
Charleston - NCC-1738B
Constitution - NCC-1700B
Defiance - NCC-1717B
Eagle - NCC-1719B
Ekron - NCC-1719B
El Dorado - NCC-1722B
Endeavor - NCC-1716B
Enterprise - NCC-1710B
Esabe - NCC-1747B
Essex - NCC-1728B
Excalibur - NCC-1706B
Excalisper - NCC-2000

External: NCC-1726B
Farragut - NCC-1728B
Fearless - NCC-1458B
Gaia - NCC-1764B
Ghel - NCC-1768B
Ghond - NCC-1749B
Gorkon - NCC-42512
Haaj - NCC-1769B
Hood - NCC-4259
Hornet - NCC-1714B
Horrok - NCC-1746B
Intrepid - NCC-3907
Jassan - NCC-1748B
Jupiter - NCC-1739B
Kap Salu - NCC-1769B
Kars - NCC-1769B
Kasmirt - NCC-1748B
Kestral - NCC-1768B
Keto - NCC-1768B
Kongo - NCC-1716B
Kregan - NCC-1768B
Lafayette - NCC-1728B
Lexington - NCC-1738B
Melbourne - NCC-6024B

Stardate: NCC-1738B
Memon - NCC-1726B
Merrimac - NCC-1715B
Miramar - NCC-1768B
Monsanto - NCC-1740B
Morgan - NCC-1768B
Monitor - NCC-1768B
Nadal - NCC-1758B
Nebulon - NCC-1768B
Oblak - NCC-1768B
Oman - NCC-1768B
Pagan - NCC-1768B
Parr - NCC-1758B
Pelion - NCC-1758B
Pharos - NCC-1768B
Pilkington - NCC-1758B
Poncrew - NCC-1758B
Proxima - NCC-1758B
Quindar - NCC-1768B
Qualat - NCC-1768B
Quizin - NCC-1758B
Republic - NCC-1768B
Repulse - NCC-2044
Saltarius - NCC-1768B
Salamon - NCC-1745B
Samarra - NCC-1758B
Saradagoa - NCC-1724B
Shar - NCC-1749B
Sinui - NCC-1770B
Sirius - NCC-1745B
Soleil - NCC-1738B
Spica - NCC-1738B
Tajrani - NCC-1768B
Tali - NCC-1751B
Temir - NCC-1768B
Theloni - NCC-1745B
Tholus - NCC-1747B
Toni - NCC-1758B
Tulon - NCC-1778B
Ulan - NCC-1768B
Valiant - NCC-1768B
Vega - NCC-1728B
Wasp - NCC-1721B
Xanthi - NCC-1743B
Yaen - NCC-1768B
Yorktown - NCC-1748B
Zaahim - NCC-1760B
Zara - NCC-1768B
Zindar - NCC-1759B

Image: Front Warp Field Profile
Cross Section Area 25312.74 m²
Print Length 895.77m
Print Width 255.83m
Print Field Height 127.05m

Image: Port Warp Field Profile
Cross Section Area 80527.75 m²

Image: Top Warp Field Profile
Cross Section Area 172603.98 m²

WARP FIELDS
SRM3 04:02:03:04
STARFLEET REFERENCE MANUAL
HEAVY CRUISER

General Information

Specific Role: The Heavy Cruiser is a well-armed, general purpose, defense capable vessel. Built to replace the Enterprise class, the Excelsior class maintains classic lines and similar duties in diplomacy and exploration. Hull reinforcements on either side of the navigation deflector were added after a few prototypes experienced heavy damage in relatively light battles.

Physical Description: The (BS20/C-U8) bridge is centered on top of the (PH290/C-L5U) primary hull and the (DN8/6N) navigational dome is centered underneath. Five (BP2/60-C2) phaser banks are mounted radially on the top and bottom of the primary hull. An integral (DU/190-48F) connecting dorsal mates the primary hull to the (SH258/C-L4U) secondary hull. Two (PB2/50-20G) photon torpedo bays are located for and aft and two (BP2/60-C2) phaser banks are located above and below the hangar bay. Two banks of (BP1/30-1C) phasers are mounted underneath as well. Just below the forward photon bay is the (DN10/A18U) main navigation deflector. Just above the rear photon bay is a large cargo bay. A large hangar bay is located underneath the secondary hull. The (M80/24-4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning in front of the main deflector. A (IRF70E/8-1R) dual impulse drive is located on the rear of the primary hull to provide sub-light propulsion. Two additional hangar bays are located to either side of the impulse drive. For warp propulsion two (SW104/2-12RU) nacelles are supported by (DU/75-15F) support pylons mounted towards the rear of the secondary hull. In the event of an emergency the primary and secondary hulls can separate; each able to carry the ships full complement. Once separated the primary hull can maneuver on impulse power for extended periods of time.
The following ships of the MK-IX class were authorized by the amended articles of federation of Starfate 2287.9:

- ACHERNAR *NCC-1732B*
- ALFRAZ *NCC-1781B*
- ALFK *NCC-1741B*
- ANDROMUS *NCC-1738B*
- ANNOBON *NCC-1726B*
- ARI *NCC-1729B*
- ASTRAD *NCC-1736B*
- BERLIN *NCC-1423B*
- BONHOMME RICHARD *NCC-1708B*
- CAIRO *NCC-4213B*
- CASPAN *NCC-1763B*
- CHARLESTON *NCC-6226B*
- CONSTITUTION *NCC-1729B*
- CONSTITUTION *NCC-1700B*
- DERANCE *NCC-1717B*
- EAGLE *NCC-1739B*
- EMINUS *NCC-1717B*
- EL DORADO *NCC-1722B*
- ENDEAVOR *NCC-1716B*
- ENTERPRISE *NCC-1701B*
- ESIARL *NCC-1778B*
- ESSEX *NCC-1727B*
- EXCALIBUR *NCC-1702B*
- EXCELSIOR *NCC-2000B*
- EXETER *NCC-1706B*
- FARRAGUT *NCC-1702B*
- FEARLESS *NCC-1458B*
- GALAHAD *NCC-1764B*
- GANTER *NCC-1469B*
- GLENWORTH *NCC-1768B*
- HASU *NCC-1728B*
- HAAKON *NCC-1452B*
- HORNIT *NCC-1714B*
- HORNET *NCC-1749B*
- HOWITT *NCC-1748B*
- HYPERION *NCC-1707B*
- IJUSAN *NCC-1754B*
- JUPITER *NCC-1749B*
- KAP SALLU *NCC-1767B*
- KARS *NCC-1768B*
- KASIMAR *NCC-1784B*
- KESTRAL *NCC-1769B*
- KETO *NCC-1768B*
- KONGS raising *NCC-1710B*
- KRIGER *NCC-1729B*
- LAFAYETTE *NCC-1720B*
- LEXINGTON *NCC-1738B*
- MAZDA *NCC-1728B*
- MELBOURNE *NCC-6204B*
- MENGEN *NCC-1773B*
- MERRIMAC *NCC-1715B*
- MIRAZZ *NCC-1778B*
- MONDOLO *NCC-1740B*
- MONROE *NCC-1769B*
- MONITOR *NCC-1713B*
- NOELLE *NCC-1768B*
- OBLIVION *NCC-1779B*
- OLYMPUS *NCC-1761B*
- PAEKEN *NCC-1755B*
- PARS *NCC-1768B*
- PELOROS *NCC-1750B*
- PHARDOIS *NCC-1757B*
- PILAR *NCC-1749B*
- POTEMPSON *NCC-8253*
- PROCYON *NCC-1768B*
- PROCYON *NCC-1737B*
- QUALAT *NCC-1778B*
- QUINNCH *NCC-1738B*
- QUIZAN *NCC-1775B*
- REPUBLIC *NCC-1729B*
- REPULSE *NCC-1754B*
- ROYAL CENTAURUS *NCC-1759B*
- SALVYNA *NCC-1748B*
- SAMARA *NCC-1768B*
- SARADAGOSA *NCC-1724B*
- SHAR *NCC-1748B*
- SINDU *NCC-1779B*
- SIURUS *NCC-1744B*
- SOL *NCC-1736B*
- SPICA *NCC-1731B*
- TAURUS *NCC-1738B*
- TELMAR *NCC-1758B*
- TELMONI *NCC-1729B*
- THELONIA *NCC-1729B*
- THOSUS *NCC-1747B*
- TIPSY *NCC-1725B*
- TULAN *NCC-1778B*
- VALANT *NCC-1709B*
- VEGA *NCC-1769B*
- WASP *NCC-1721B*
- XANTHIS *NCC-1738B*
- YANIN *NCC-1768B*
- YORKTOWN *NCC-1704B*
- ZAHMA *NCC-1708B*
- ZAFARAN *NCC-1760B*
- ZINDAR *NCC-1756B*
- + Upgrade Version

"CLASS SHIP - LOST IN THE LINE OF DUTY. POSTED, ALL NAMES PRECEDES WITH U.S.S."
**Light Cruiser**

**General Information**

**Specific Role:** The Light Cruiser is a lightly armed, general purpose, exploration vessel. This class starship is extremely maneuverable due to its high power to mass ratio. Other duties include system defense and commercial traffic patrol.

**Physical Description:** The (BS20/C-U8) bridge is centered on top of the (PH290/C-L5) primary hull and the (DN8/6N) navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on the top and six are mounted on bottom of the primary hull. A (PB2/50-20G) photon torpedo bay is mounted underneath the front of the hull. A medium hangar bay is located underneath the impulse engines. The (M55/28-2E) intermix chamber runs horizontally between the jefferies tubes however, the core can be jettisoned through the deflection crystal in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning in front of the hangar bay. A (IRF70E/6-IR) dual impulse unit is located on the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW104/2-12RU) nacelles are mounted on (DU/70-12F) support pylons towards the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.
**Classification:** Light Cruiser  
**Category:** Cruiser  
**Class:** Rothwell  
**Type:** Class 1  
**Model:** MK-XIIb  
**Naval Construction Contract:** 1401B  
**Number Proposed:** 98  
**Number Constructed:** 43  
**Number in Service:** 40  
**Number Lost:** 3

### Dimensions:
- **Overall Dimensions (Meters):** Length: 333.49 m, Width: 177.21 m, Height: 68.10 m  
- **Primary Hull Dimensions (Meters):** Length: 198.51 m, Width: 177.21 m, Height: 30.71 m  
- **Secondary Hull Dimensions (Meters):** Length: N/A, Width: N/A, Height: N/A  
- **Warp Unit Dimensions (Meters):** Length: 229.88 m, Width: 15.82 m, Height: 20.43 m  
- **Displacement (Metric Tons):** Light: 340571 mt, Standard: 364583 mt, Full Load: 407327 mt

### Performance:
- **Impulse Units:** Dual Unit (IRF70E/6-IR)  
- **Impulse Engine Output:** 1.64E+14 W  
- **Impulse Power Index:** 1.03  
- **Max Impulse Index:** C  
- **Max Impulse Ratio:** 0.00-0.30 Impulse: 0.168 sec, 0.35-0.50 Impulse: 0.264 sec, 0.55-0.75 Impulse: 0.364 sec, 0.76-0.99 Impulse: 0.400 sec  
- **Warp Units:** 2 Nacelle Units (SW1042-12R)  
- **Warp Engine Output:** 9.85E+15 W  
- **Warp Power Index:** 1.03

### Statistics:
- **Optimum Speed:** 5  
- **Max. Safe Cruising:** 7  
- **Emergency Speed:** 8.3  
- **Max. Speed:** 9.15  
- **Destructive Speed:** 9.36  
- **Acceleration Power:** 3  
- **Warp Engine Nacelle:** 2  
- **Warp Support Pylon:** 2  
- **Warp Nacelle:** 2  
- **Impulse Deck:** 1  
- **Hangar Deck:** 1  
- **Navigational Dome:** 1  
- **Computer Core:** 1  
- **Intermax Crossover Chamber:** 1  
- **Cargo Storage Facility:** 1

### Cross Section:
- **Bridge:** 22  
- **Transporters:** 20  
- **Tractor Beams:** Tow Capacity: 4.17E+06 mt, Max Range: 1.25E+06 km  
- **Cargo Specification:** Standard Cargo Units: 500, Cargo Capacity: 25000 mt  
- **Shuttlecraft Specifications:** Docking Ports: 1  
- **Shuttlecraft Bays Total:** 1  
- **Medium Bay:** 1  
- **Large Bay:** 0  
- **Super Bay:** 0  
- **Shuttlecraft Standard:** 35  
- **Work Bays:** 2  
- **Travel Pods:** 2  
- **Aquatic Shuttle:** 1  
- **Light Shuttle:** 1  
- **Standard Shuttle:** 8  
- **Heavy Shuttle:** 1  
- **Cargo Shuttle:** 1  
- **Assault Shuttle:** 5  
- **Vessel Power Index:** 0.593  
- **Weapon Placement:** Beam (Phasers) Total: 12 banks 2 each  
- **Beams (Mega-phasers) Total:** 0  
- **Torpedoes (Photonic) Total:** 2 Bays

### Weapons:
- **ECM Index:** 0.99  
- **Shields:** Shield Index: 0.94  
- **Holdoff Power:** 1.05E+12 W  
- **Refresh Rate:** 3.00E+11 W  
- **Breakdown Rate:** 3.60E+11 W  
- **Shield Dimensions (Meters):** Length: 500.24 m, Width: 285.82 m, Height: 87.15 m  
- **Rate of Fire:** 40 rpm / Cont.

---

**Note:** The above information is a representation of a Starfleet Light Cruiser from the Star Trek universe, as depicted in the Starfleet Reference Manual.
THE FOLLOWING SHIPS OF THE MK-XIIIa CLASS WERE AUTHORIZED BY THE AMENDED ARTICLES OF FEDERATION OF STARDATE 2287.2

AA BURG • NCC-14598***
ALJAZAN • NCC-14135
AMBERCROMBIE • NCC-14029
ANDERSEN • NCC-14888***
ASH • NCC-14628
AYENS • NCC-14478
BAILEY • NCC-1451B
BALLOU • NCC-1471B
BANDESO • NCC-14278***
BERRINGER • NCC-14068B
BRYCE • NCC-1459B
BUCKLEY • NCC-1466B
BRYNE • NCC-1461B
CANNAN • NCC-14658***
CARLSON • NCC-14578
CARRER • NCC-1438B
CARZOLO • NCC-14768
CHAMATTH • NCC-14168
CORNELL • NCC-14728
CROSTOFFEL • NCC-14658
DAKOTA • NCC-14458
DALHART • NCC-1474B
DAWSON • NCC-1479B
DECATUR • NCC-1438B
DECKERT • NCC-1492B***
DIBLEY • NCC-14898***
DYKOSKI • NCC-14068
EGLAND • NCC-14738
ESNEAULT • NCC-1493B
FIELDMAN • NCC-14268
FISCHER • NCC-1429B
FLEMING • NCC-14758
FRITZ • NCC-14568
GRANDSTAFF • NCC-14278
GREEN • NCC-1442B
GREEN • NCC-14698***
GUSSIEPE • NCC-14618
HALOGENETICS • NCC-14508***
HARSH • NCC-14238
HARTLEY • NCC-14138
HEIDBRAND • NCC-1448B
HULGER • NCC-1485B
HUNTER • NCC-14198
JETSER • NCC-14258
JORDAN • NCC-14698***
JINNEANT • NCC-14538
KARRIGAN • NCC-14538
KASEY • NCC-1404B
KIRK • NCC-14608
LEONARDO • NCC-1454B
MANNING • NCC-14778
McGILL • NCC-14738
MENG • NCC-14178
MESALTO • NCC-1453B
MIESPER • NCC-14528
MONT LION • NCC-14468
OAKES • NCC-1414B
OLIVER • NCC-1442B
OLMSTED • NCC-1452B
ORELKA • NCC-14628
PARADON • NCC-1458B
PELEON • NCC-1436B
PENKOV • NCC-14678
PINCOTT • NCC-14528
PIVER • NCC-1442B
PITFIELD • NCC-14679
POLA • NCC-1453B
PREIGE • NCC-14088***
REINBOBEL • NCC-14498
RENFORE • NCC-1459B
ROGERS • NCC-1466B***
ROTHWELL • NCC-1401B***
SANCHEZ • NCC-14348***
SALUTRY • NCC-14229***
SHANER • NCC-14508B
SHERDAN • NCC-14478
SHEM • NCC-1478B
SHEVER • NCC-1414B
SPOIL • NCC-1406B
TALLEGEDA • NCC-14488
TARKO • NCC-14408
TORRINGTON • NCC-1457B
TORNESS • NCC-1458B
UMPPSTEAD • NCC-14688
UPCHURCH • NCC-14328
VARRO • NCC-1411B
VERDAN • NCC-1431B
WALMER • NCC-1432B
WALKIN • NCC-1412B
WALTA • NCC-14998
WOLFFSBERGER • NCC-1464B
WYN • NCC-1421B
XIA • NCC-1435B
YEARSDONNE • NCC-1437B
ZUPZ • NCC-14188

CLASS SHIP, "LOST IN THE LINE OF DUTY," "PROPOSED. ALL NAMES PRECEDED WITH U.S.S."
**Specific Role:** The Tactical Cruiser is an agile starship capable of massive destruction and is often used to display a show of force in troubled areas. It is equipped with extremely powerful shields and sensors as well as extensive ECM systems. During military operations the Tactical Cruiser is used for point assault and main-line defense.

**Physical Description:** The (BS20/C-T8) bridge is centered on top of the (PH290/C-E5) extended primary hull and the (DN8/6N) navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. A two piece integral (DU/210-44F) connecting dorsal mates the primary hull to the (SH340/C-T8) secondary hull. Two (PB2/50-20G) photon torpedo bays are located for and aft and two (BP2/60-2C) phaser banks are located above and below the hangar bay. Two banks of (BP1/30-1C) phasers are mounted underneath as well. Just above the forward photon bay is a (TB5/E40) tractor beam emitter and below is the (DN10/T18) main navigation deflector. Just above the rear photon bay is a large cargo/hangar bay. The (M100/42-4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (IRF75T/8-IR) dual impulse drive is located on the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW104/2-10RT) nacelles are supported by (DU/70-12T) support pylons mounted to the back of the secondary hull and a third warp nacelle on top is attached just forward of the main impulse drive by a (DU/50-12T) support pylon. 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.
**General Information**

**Specific Role:** The Through Deck Cruiser carries six complete fighter wings and several other assault craft. Although lightly armed, it's support craft can handle planetary assault, system defense and ship to ship combat. This vessel usually patrols treaty boundaries and shipping lanes.

**Physical Description:** The (BS20/C-N8) bridge is centered on top of the (PH310/C-C5) extended primary hull and the (DN8/6N) navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. A two piece integral (DU/200-44F) connecting dorsal mates the primary hull to the (SH310/C-F4) secondary hull. Two (PB2/50-2G) photon torpedo bays are located for and aft and two (BP2/60-2C) phaser banks are located above and below the hangar bay. Two banks of (BP1/30-2C) phasers are mounted underneath as well. Between the forward photon tubes is the (DN10/A18) main navigation deflector. Just above the rear photon bay is a large cargo bay. The secondary hull contains a unique multilevel fighter bay with doors on all four sides and one door facing down. The (M80/28-4E) intermix chamber runs vertically from the deflection crystal down to the secondary hull, however the core can be jettisoned through the deflection crystal in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the primary hull. A (IRF70/E/8-1R) dual impulse unit located on the rear of the primary hull provides sub-light propulsion. For warp propulsion two (SW104/2-12RU) nacelles are supported by (DU/70-12D) support pylons mounted to the back of the secondary hull. In the event of an emergency the primary and secondary hulls can separate; each being able to carry the ships full compliment. Once separated the primary hull can maneuver on impulse power for extended periods of time.
**General Information**

**Specific Role:** The Loki class destroyer, with a small silhouette, is an effective fighting ship. The combination of several mega-phasers coupled with a high density dual warp engine system make this vessel quite ferocious. During military operations the Destroyer is used for point assault and hit and run defense. This design is based on the Joshua Class Command Cruiser.

**Physical Description:** The (BS18/C-D8) bridge is centered on top of the (PH250/D-L5) primary hull and the (DN8/6N) navigational dome is centered underneath. The vessel is equipped with additional sensors, hull reinforcements and a medium hangar deck facing to the rear. Three (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. A pair of (MP2/60-2G) mega-phasers are mounted on top of the hangar bay and one is mounted on the rear of warp nacelle. The primary hull is joined to the unique dual warp nacelle by a (DU/80-36D) connecting dorsal. Two (PB2/50-20G) photon torpedo bays, facing fore and aft, are located at the base of the connecting dorsal. The (M70/26-4E) intermix chamber runs vertically from the deflection crystal down to the dual warp nacelle where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned between the field coils for emergency jettisoning. To the rear of the primary hull are (IP212E/4-IT) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessel's warp fields are generated by a (SW64/1-4RU) dual inline warp nacelles. 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.

**Class Emblem**

**Ship Silhouettes**

- Total Target Area 39195.39 m²
- Top Silhouette
  - Area 25140.56 m²
- Port Silhouette
  - Area 10043.61 m²
- Front Silhouette
  - Area 4005.82 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 troops and fighter craft into battle. The Frigate's small, stout package presents minimal silhouette target area to enemy vessels. Three Megaphasers powered directly off of the intermix chamber provide this vessel with destroyer-strength fire power. The Frigate is equipped with a medium hangar bay designed to launch and maintain two full wings of fighter craft. Troops, doubling as relief maintenance crew, are carried aboard at all times and can use either assault shuttles or combat transports to reach planetary engagements.

Physical Description: The (BS20/C-F8) bridge is centered on top of the (PH290/C-L5) primary hull and the (DN8/6N) navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on the top and six are mounted on bottom of the primary hull. A (PB2/50-20G) photon torpedo bay is mounted underneath the front of the hull. A large hangar bay extends from the rear underneath the impulse engines. The (M80/26-4E) intermix chamber runs vertically from the deflection crystal down to the small secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (IRF70E/8-1R) dual impulse unit is located on the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW104/2-12RU) nacelles are mounted on (DU/60-9F) support pylons underneath the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.

Class Emblem

LEAVENWORTH
CLASS
FRIGATE

Ship Silhouettes

Total Target Area 46134.98 m²

Port Silhouette
Area 9509.23 m²

Top Silhouette
Area 32666.46 m²

Front Silhouette
Area 3937.27 m²
**General Information**

**Specific Role:** Federation involvement in peace-keeping duties led to the development of the Heavy Frigate, a fighting ship primarily used to transport troops and fighter craft into battle. Four photon torpedo bays provide this vessel with sufficient fire power to combat capital ships. The Heavy Frigate is equipped with several hangar bays designed to launch and maintain twelve full wings of fighter and support craft. Troops, doubling as relief maintenance crew, are carried aboard at all times and can use either assault shuttles or combat transporters to reach planetary engagements.

**Physical Description:** The (BS20/C-F10) bridge is centered on top of the (PH32/C-F5) extended primary hull and the (DN8/5N) navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on top and underneath the primary hull. Four (PB4/50-40F) bidirectional photon torpedo bays are mounted behind the bridge and fire to either side. Three small hangar bays are directly below the impulse engines and a fourth medium hangar bay is centered underneath. The (M84/26-4E) intermix chamber runs vertically from the deflection crystal down to the small secondary hull where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the secondary hull. A (IRF70E/8-IR) dual impulse unit is located on the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW100/2-12RU) nacelles are mounted on (DU/55-10F) support pylons underneath the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.
HEAVY FRIGATE

Ship Names

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

ARENDELE + NCC-1851B
ARIZANNA + NCC-18758
AVENGER + NCC-1869B
BALE + NCC-18598
BIKANSORS + NCC-18708
CARMINE + NCC-18489
CARRIAGE + NCC-1879B
CAVENDER + NCC-1878B
CRAMPION + NCC-18938
DANNER + NCC-1830B
DOWLING + NCC-18458
ERALLING + NCC-18728
FURSTON + NCC-18328
GADLAG + NCC-18358
GREENE + NCC-1855B
HARISTON + NCC-1853B
HANNOVER + NCC-1841B
HARMON + NCC-1862B
HODGINS + NCC-1877B
JULIF + NCC-1869B
JOHNSON + NCC-1831B
JUSTRINIAN + NCC-1849B
KAN + NCC-1879B
KANTOR + NCC-1837B

KING + NCC-1843B
KOWALSKY + NCC-1886B
KROMIS + NCC-1846B
LE DUC + NCC-1846B
LEMON + NCC-1848B
MAGOYU + NCC-1850B
MCCAFFERTY + NCC-1833B
MEHTA + NCC-1874B
MOKHERIS + NCC-1855B
MOUNDS + NCC-1856B
MUGGET + NCC-1833B
NOELVU + NCC-1869B
PARIS + NCC-1866B
PETRA + NCC-1836B
RELIANT + NCC-1846B
REMBERT + NCC-1856B
ROMAN + NCC-1850B
SCHARRIFF + NCC-1847B
SMITHY + NCC-1858B
SOMMERLAND + NCC-1805B
SPRADLIN + NCC-1851B
STEELMAN + NCC-1846B
SUCHICKY + NCC-1873B
TONINI + NCC-1866B

TRAFFIC + NCC-1861B
TRUZDAK + NCC-1857B
TYGAU + NCC-1842B
URBANOWICZ + NCC-1871B
WALLACE + NCC-1855B
WATSON + NCC-1844B
WYNDEN + NCC-1840B
XOINES + NCC-1838B
YOTHER + NCC-1862B
ZABRISKIE + NCC-1838B
ZETER + NCC-1852B

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

Tractor Beam Specifications
Primary Tractor Beam Load Calculator

Warp Fields
SRM3 04:02:10:04
STARFLEET REFERENCE MANUAL

Front Warp Field Profile
Cross Section Area 18305.76 m²

Port Warp Field Profile
Cross Section Area 68206.34 m²

Top Warp Field Profile
Cross Section Area 181070.44 m²
**General Information**

**Specific Role:** The Scout is a fast, cost effective starship used for patrols, surveillance and Federation defense. The high density dual warp engine configuration gives the Michael Adam class an extended warp field for increased speed and efficiency. During military operations the Scout, using extensive surveillance equipment, performs extended reconnaissance patrols into critical areas ahead of Federation vessels. The Scout is usually on extended mapping and treaty boundary reconnaissance missions. This design is based on the Joshua Class Command Cruiser.

**Physical Description:** The (BS18/C-S8) bridge is centered on top of the (PH250/D-L5) primary hull and the (DN8/6N) navigational dome is centered underneath. The primary hull is equipped with additional sensors and a medium hangar deck facing to the rear. three (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. A (SME993/6A) high gain omnidirectional sensor array is mounted on top of the warp nacelle and an (SDA37/4A) directed array is mounted underneath. The primary hull is joined to the unique dual warp nacelle by a (DU/80-36D) connecting dorsal. The (PB2/50-20G) photon torpedo bay is located at the base of the connecting dorsal. The (M70/26-4E) intermix chamber runs vertically from the deflection crystal down to the dual warp nacelle where an ejection plate allows the core to be jettisoned downward in an emergency. The matter/antimatter storage tanks are positioned between the field coils for emergency jettisoning. To the rear of the primary hull are (IP212E/4-1U) dual impulse units which are used for auxiliary power and sub-light propulsion. The vessel's warp fields are generated by a (SW64/1-4RV) dual inline warp nacelles. 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.

---

**Class Emblem**

**Ship Silhouettes**

- **Top Silhouette**
  - Area: 26361.87 m²

- **Port Silhouette**
  - Area: 11936.16 m²

- **Front Silhouette**
  - Area: 4395.71 m²

---

**STARFLEET REFERENCE MANUAL**

SRM3 04:02:11:01
**SCOUT**

**METERS**

**SCALE 1:2000**

**PORT PROFILE**

**CROSS SECTION**

**Statistics**

- **Classification:** Scout
- **Category:** Scout
- **Class:** Michael Adam
- **Type:** Class1
- **Model:** MK-XXX
- **Naval Construction Contract:** 5002B
- **Number Proposed:** 98
- **Number Constructed:** 98
- **Number in Service:** 94
- **Number Lost:** 4

**Dimensions:**

- **Overall Dimensions (Meters):**
  - Length: 347.90 m
  - Width: 159.20 m
  - Height: 93.32 m
- **Primary Hull Dimensions (Meters):**
  - Length: 170.82 m
  - Width: 159.20 m
  - Height: 39.28 m
- **Secondary Hull Dimensions (Meters):**
  - Length: N/A m
  - Width: N/A m
  - Height: N/A m
- **Warp Unit Dimensions (Meters):**
  - Length: 213.62 m
  - Width: 35.82 m
  - Height: 28.10 m

**Displacement (Metric Tons):**

- Light: 248284 mt
- Standard: 26609 mt
- Full Load: 296651 mt

**Performance:**

- **Impulse Units:** Dual Unit (P212E/4-IT)
- **Impulse Engine Output:** 1.64E+14 W
- **Impulse Power Index:** 1.30
- **Max Impulse Power Index:** 1.30
- **Max Cruising:** C
- **Acceleration Rate:**
  - 0.00-0.25 Impulse: 0.122 sec.
  - 0.25-0.50 Impulse: 0.162 sec.
  - 0.50-0.75 Impulse: 0.257 sec.
  - 0.75-Full Impulse: 0.321 sec.
- **Warp Units:** Nacelle Units (SW64/1-4RV)
- **Warp Engine Output:** 9.07E+15 W
- **Warp Power Index:** 1.30

**Optimum Speed:** 5
**Max. Safe Cruising:** 7
**Emergency Speed:** 8.3
**Max. Speed:** 9.15
**Destructive Speed:** 9.35
**Acceleration Power:** 3
**Acceleration Times:**
- Warp 1 - Warp 2: 0.155 sec.
- Warp 2 - Warp 3: 0.248 sec.
- Warp 3 - Warp 4: 0.936 sec.
- Warp 4 - Warp 5: 1.346 sec.
- Warp 6 - Warp 7: 1.555 sec.
- Warp 7 - Warp 8: 1.996 sec.
- Warp 8 - Warp 9: 2.855 sec.
- Warp 9 - Warp 9.5: 3.444 sec.
- Warp 9.75 - Warp 9.9: 15.241

**Duration (Years):**

- Standard: 5 Years
- Maximum: 20 Years

**Std. Ships Complement:** 525
- Officers: 86
- Crew (Ensign Grade): 419
- Troops: 20
- Passengers: 60
- Emergency condition: + 718

**Medical Facilities:**

- Doctors: 6
- Nurses: 14
- Operating Rooms: 5
- Beds: 32

**Labs:** 45

**Transporters Total:** 14
- 1 Person: 0
- 2 Person: 0
- 6 Person: 5
- 12 Person: 0
- 22 Person: 0
- Small Cargo: 2
- Medium Cargo: 2
- Large Cargo: 0
- Super Cargo: 0

**Brgs:** 23
- Replicators: 24

**Tractor Beams:**
- Tow Capacity: 3.98E+06 mt
- Max Range: 9.30E+04 km

**Cargo Specification:**
- Standard Cargo Units: 387
- Cargo Capacity: 19330 mt

**Shuttlecraft Specifications:**
- Docking Port: 2
- Shuttlecraft Bays Total: 1
- Small Bay: 0
- Medium Bay: 1
- Large Bay: 0
- Super Bay: 0
- Shuttlecraft Standard: 32
- Work Bees: 2
- Travel Pods: 2
- Aquatic Shuttle: 1
- Light Shuttle: 1
- Standard Shuttle: 8
- Heavy Shuttle: 1
- Cargo Shuttle: 1
- Assault Shuttle: 2
- Killer Bees: 3
- Light Fighter: 4
- Fighter: 4
- Heavy Fighter: 3
- Lifeboats: 56
- Turbolift (8 person): 32
- Lifeboat (10 person): 16
- Lifeboat (20 person): 7
- Lifeboat (30 person): 1

**Cloaking Devices:**
- Planetary Survey: 2.5078
- Stellar Survey: 2.2750
- Short Range: 1.7221
- Long Range: 1.5623
- Navigation: 1.2151
- Special: 2.9342

**Computers:**
- Type: Daystrom Duotronic IVo
- Type: Daystrom Duotronic III w

**ECM Index:** 1.10
- Shield Rating: 1.10
- Holdoff Power: 8.75E+11 W
- Refresh Rate: 2.49E+11 W
- Breakdown Rate: 2.99E+11 W
- Shield Dimensions (Meters):
  - Length: 521.85 m
  - Width: 238.80 m
  - Height: 139.98 m

**Weapons:**
- Phaser Power Index: 0.375
- Photon Power Index: 0.167
- Vessel Power Index: 0.271
- Weapon Placement:
  - Beam (Phasers) Total: 6 banks 2 each
  - Output: 7.50E+11 W / 3.7E11 W
  - Range: 4.10E+05 km
  - Rate of Fire: 40 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: 40
    - Range: 2.90E+05 km
    - Output: 10-55 Megatons
    - Rate of Fire: 15 rpm
    - Forward Bay: 2
    - Rear Bay: 0
    - Port Bay: 0
    - Starboard Bay: 0
    - Upper Bay: 0
    - Lower Bay: 0

**SRM3 04:02:11:02 STARFLEET REFERENCE MANUAL**
**Ship Names**

The following ships of the MK-XXXa class were authorized by the amended articles of Federation of Stardate 2265.5:

- Anubis: NCC-5026B
- Apel: NCC-5036B
- Apus: NCC-5036B
- Aquila: NCC-5037B
- Ares: NCC-5016B
- Avreat: NCC-5026B
- Baggett: NCC-5066B
- Batimore: NCC-5076B
- Borsch: NCC-5076B
- Bow: NCC-5011B
- Bridger: NCC-5036B
- Burton: NCC-5036B
- Camedoparius: NCC-5020B
- Canis Major: NCC-5025B
- Canis Minor: NCC-5026B
- Carson: NCC-5036B
- Carsten: NCC-5035B
- Claunen: NCC-5011B
- Cody: NCC-5036B
- Columbia: NCC-5035B
- Conrad: NCC-5076B
- Corvis: NCC-5034B
- Crockett: NCC-5041B
- Curry: NCC-5076B
- Cygnus: NCC-5031B
- Darilla: NCC-5036B
- Deban: NCC-5036B
- Diana: NCC-5036B
- Downing: NCC-5036B
- Dyke: NCC-5011B
- Eckel: NCC-5046B
- Egleis: NCC-5037B
- Escalor: NCC-5046B
- Everitt: NCC-5071B
- Fabia: NCC-5076B
- Fiest: NCC-5036B
- Forbes: NCC-5036B
- Gellmore: NCC-5056B
- Gradel: NCC-5039B
- Grus: NCC-5036B
- Haight: NCC-5037B
- Hamilton: NCC-5032B
- Hermes: NCC-5011B
- Huseumann: NCC-5094B
- Ikex: NCC-5096B
- Isham: NCC-5036B
- Jakenel: NCC-5046B
- Jurk: NCC-5056B
- Keeper: NCC-5026B
- Kilpatrick: NCC-5036B
- Lagraone: NCC-5081B
- Le: NCC-5021B
- Leo Minor: NCC-5029B
- Lepus: NCC-5024B
- Leverett: NCC-5046B
- Lo: NCC-5028B
- Lupp: NCC-5017B
- Lynx: NCC-5022B
- Marr: NCC-5036B
- Masher: NCC-5028B
- Maxheimer: NCC-5075B
- Meurer: NCC-5079B
- Michael Adam: NCC-5032B
- Monoceros: NCC-5015B
- Naucely: NCC-5076B
- Northcutt: NCC-5046B
- Odel: NCC-5041B
- Ovivas: NCC-5044B
- Pace: NCC-5048B
- Parmeley: NCC-5048B
- Pavo: NCC-5026B
- Pegasus: NCC-5026B
- Pendor: NCC-5096B
- Phoenix: NCC-5096B
- Quijada: NCC-50708
- Quintillus: NCC-5004B
- Ramin: NCC-5074B
- Redwing: NCC-5045B
- Revere: NCC-5036B
- Rider: NCC-5046B
- Rums: NCC-5046B
- Sacajawea: NCC-50125
- Sartain: NCC-5056B
- Selby: NCC-5067B
- Speed: NCC-5047B
- Spaker: NCC-5010B
- Tauris: NCC-5019B
- Thatch: NCC-5043B
- Timms: NCC-5025B
- Tonti: NCC-5013B
- Trice: NCC-5057B
- Tucana: NCC-5032B
- Uphaw: NCC-5026B
- Ursas Major: NCC-5023B
- Ursas Minor: NCC-5030B
- Vann: NCC-5072B
- Vulpecula: NCC-5027B

**Warp Fields**

SRM3 04:02:11:04

Starfleet Reference Manual
TRANSPORT / TUG

General Information

Specific Role: The Anaxagoras Class Transport/Tug is one of the Federation's most widely used supply line vessels. Starfleet, in particular, depends upon the reliability of this vessel since it spends the least amount of time of any starship in port, even when compared to deep space exploration vessels. The transport/tug has additional staterooms to accommodate passengers. This vessel is capable of transporting four containers at a time and up to eight containers through the use of container warp extenders.

Physical Description: The (BS20/C-U8) bridge is centered on top of the (PH290/C-L5) primary hull and the (DN8/6N) navigational dome is centered underneath. Five (BP2/60-2C) phaser banks are mounted radially on the top and bottom of the primary hull. A (PB2/50-20G) photon torpedo bay is mounted underneath the front of the hull. A medium hangar bay extends from the rear underneath the impulse engines. The (M80/28-4H) intermix chamber runs horizontally between the jeffries tubes however, the core can be jettisoned through the deflection crystal in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the hull. A (IRF70E/8-IR) dual impulse unit is located on the rear of the primary hull to provide sub-light propulsion. For warp propulsion two (SW104/2-10RT) nacelles are mounted on (DU/70-12) support pylons underneath the rear of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated the primary hull can maneuver on impulse power for extended periods of time.
**Transport / Tug**

**Cross Section**

**Statistics**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Transport/Tug</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category</td>
<td>Transport/Tug</td>
</tr>
<tr>
<td>Class</td>
<td>Anaxagoras</td>
</tr>
<tr>
<td>Type</td>
<td>Class A</td>
</tr>
<tr>
<td>Model</td>
<td>MK-VIA</td>
</tr>
<tr>
<td>Naval Construction Contract</td>
<td>3803B</td>
</tr>
<tr>
<td>Number Proposed</td>
<td>100</td>
</tr>
<tr>
<td>Number Constructed</td>
<td>100</td>
</tr>
<tr>
<td>Number In Service</td>
<td>96</td>
</tr>
<tr>
<td>Number Lost</td>
<td>4</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>- Overall Dimensions (Meters)</td>
<td></td>
</tr>
<tr>
<td>- Length: 387.70 m</td>
<td></td>
</tr>
<tr>
<td>- Width: 177.21 m</td>
<td></td>
</tr>
<tr>
<td>- Height: 48.00 m</td>
<td></td>
</tr>
<tr>
<td>- Primary Hull Dimensions (Meters)</td>
<td></td>
</tr>
<tr>
<td>- Length: 245.66 m</td>
<td></td>
</tr>
<tr>
<td>- Width: 177.21 m</td>
<td></td>
</tr>
<tr>
<td>- Height: 30.71 m</td>
<td></td>
</tr>
<tr>
<td>- Secondary Hull Dimensions (Meters)</td>
<td></td>
</tr>
<tr>
<td>- Length: N/A m</td>
<td></td>
</tr>
<tr>
<td>- Width: N/A m</td>
<td></td>
</tr>
<tr>
<td>- Height: N/A m</td>
<td></td>
</tr>
<tr>
<td>- Warp Unit Dimensions (Meters)</td>
<td></td>
</tr>
<tr>
<td>- Length: 247.08 m</td>
<td></td>
</tr>
<tr>
<td>- Width: 177.00 m</td>
<td></td>
</tr>
<tr>
<td>- Height: 20.33 m</td>
<td></td>
</tr>
<tr>
<td>- Displacement (Metric Tons)</td>
<td></td>
</tr>
<tr>
<td>- Light: 302806 mt</td>
<td></td>
</tr>
<tr>
<td>- Standard: 324422 mt</td>
<td></td>
</tr>
<tr>
<td>- Full Load: 362159 mt</td>
<td></td>
</tr>
<tr>
<td>Performance</td>
<td></td>
</tr>
<tr>
<td>- Impulse Units: Dual Unit (I RF70E/8-IR)</td>
<td></td>
</tr>
<tr>
<td>- Impulse Engine Output: 1.64E+14 W</td>
<td></td>
</tr>
<tr>
<td>- Impulse Power Index: 1.22</td>
<td></td>
</tr>
<tr>
<td>- Max Cruising: C</td>
<td></td>
</tr>
<tr>
<td>- Acceleration Rate:</td>
<td></td>
</tr>
<tr>
<td>- 0.00-0.25 Impulse: 0.149 sec.</td>
<td></td>
</tr>
<tr>
<td>- 0.25-0.50 Impulse: 0.234 sec.</td>
<td></td>
</tr>
<tr>
<td>- 0.50-0.75 Impulse: 0.313 sec.</td>
<td></td>
</tr>
<tr>
<td>- 0.75-1.00 Impulse: 0.391 sec.</td>
<td></td>
</tr>
<tr>
<td>- Warp Units: 2 Nacelle Units (SW1042-10RT)</td>
<td></td>
</tr>
<tr>
<td>- Warp Engine Output: 1.04E+16 W</td>
<td></td>
</tr>
<tr>
<td>- Warp Power Index: 1.22</td>
<td></td>
</tr>
<tr>
<td>- Optimum Speed: 5</td>
<td></td>
</tr>
<tr>
<td>- Max Safe Cruising: 7</td>
<td></td>
</tr>
<tr>
<td>- Emergency Speed: 8.2</td>
<td></td>
</tr>
<tr>
<td>- Max Speed: 9.05</td>
<td></td>
</tr>
<tr>
<td>- Destructive Speed: 9.25</td>
<td></td>
</tr>
<tr>
<td>- Acceleration Power: 3</td>
<td></td>
</tr>
<tr>
<td>- Acceleration Times:</td>
<td></td>
</tr>
<tr>
<td>- Warp 1 - Warp 2: 0.165 sec.</td>
<td></td>
</tr>
<tr>
<td>- Warp 2 - Warp 3: 0.264 sec.</td>
<td></td>
</tr>
<tr>
<td>- Warp 3 - Warp 4: 0.999 sec.</td>
<td></td>
</tr>
<tr>
<td>- Warp 4 - Warp 5: 1.437 sec.</td>
<td></td>
</tr>
<tr>
<td>- Warp 5 - Warp 6: 1.536 sec.</td>
<td></td>
</tr>
<tr>
<td>- Warp 6 - Warp 7: 1.659 sec.</td>
<td></td>
</tr>
<tr>
<td>- Warp 7 - Warp 8: 2.130 sec.</td>
<td></td>
</tr>
<tr>
<td>- Warp 8 - Warp 9: 3.047 sec.</td>
<td></td>
</tr>
<tr>
<td>- Warp 9.5 - Warp 9.75: 7.843 sec.</td>
<td></td>
</tr>
<tr>
<td>- Duty (Years)</td>
<td></td>
</tr>
<tr>
<td>- Standard: 6 Years</td>
<td></td>
</tr>
<tr>
<td>- Maximum: 24 Years</td>
<td></td>
</tr>
<tr>
<td>- Std. Ships Complement: 859</td>
<td></td>
</tr>
<tr>
<td>- Officers: 137</td>
<td></td>
</tr>
<tr>
<td>- Crew (Ensign Grade): 671</td>
<td></td>
</tr>
<tr>
<td>- Troops: 51</td>
<td></td>
</tr>
<tr>
<td>- Passengers: 92</td>
<td></td>
</tr>
<tr>
<td>- Emergency Condition: +1144</td>
<td></td>
</tr>
<tr>
<td>- Medical Facilities:</td>
<td></td>
</tr>
<tr>
<td>- Doctors: 10</td>
<td></td>
</tr>
<tr>
<td>- Nurses: 23</td>
<td></td>
</tr>
<tr>
<td>- Operating Rooms: 8</td>
<td></td>
</tr>
<tr>
<td>- Beds: 53</td>
<td></td>
</tr>
<tr>
<td>- Laboratories: 13</td>
<td></td>
</tr>
<tr>
<td>- Transports Total: 19</td>
<td></td>
</tr>
<tr>
<td>- 1 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 2 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 3 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 4 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 5 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 6 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 7 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 8 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 9 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 10 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 11 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 12 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 13 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 14 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 15 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 16 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 17 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 18 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 19 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 20 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 21 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 22 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 23 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 24 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 25 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 26 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 27 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 28 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 29 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- 30 Person: 0</td>
<td></td>
</tr>
<tr>
<td>- Cargo Specification:</td>
<td></td>
</tr>
<tr>
<td>- Standard Cargo Units: 386</td>
<td></td>
</tr>
<tr>
<td>- Cargo Capacity: 18000 mt</td>
<td></td>
</tr>
<tr>
<td>- Shuttlecraft Specifications:</td>
<td></td>
</tr>
<tr>
<td>- Docking Ports: 2</td>
<td></td>
</tr>
<tr>
<td>- Shuttlecraft Bay Total: 10</td>
<td></td>
</tr>
<tr>
<td>- Small Bay: 0</td>
<td></td>
</tr>
<tr>
<td>- Medium Bay: 1</td>
<td></td>
</tr>
<tr>
<td>- Large Bay: 0</td>
<td></td>
</tr>
<tr>
<td>- Super Bay: 0</td>
<td></td>
</tr>
<tr>
<td>- Shuttlecraft Standard: 35</td>
<td></td>
</tr>
<tr>
<td>- Work Bees: 2</td>
<td></td>
</tr>
<tr>
<td>- Travel Pods: 2</td>
<td></td>
</tr>
<tr>
<td>- Aquatic Shuttle: 1</td>
<td></td>
</tr>
<tr>
<td>- Light Shuttle: 1</td>
<td></td>
</tr>
<tr>
<td>- Standard Shuttle: 8</td>
<td></td>
</tr>
<tr>
<td>- Heavy Shuttle: 1</td>
<td></td>
</tr>
<tr>
<td>- Cargo Shuttle: 1</td>
<td></td>
</tr>
<tr>
<td>- Assault Shuttle: 5</td>
<td></td>
</tr>
<tr>
<td>- Killer Bees: 3</td>
<td></td>
</tr>
<tr>
<td>- Light Fighter: 4</td>
<td></td>
</tr>
<tr>
<td>- Fighter: 4</td>
<td></td>
</tr>
<tr>
<td>- Heavy Fighter: 3</td>
<td></td>
</tr>
<tr>
<td>- Lifeboats: 85</td>
<td></td>
</tr>
<tr>
<td>- Turbolift (8 person): 41</td>
<td></td>
</tr>
<tr>
<td>- Lifeboat (10 person): 30</td>
<td></td>
</tr>
<tr>
<td>- Lifeboat (20 person): 13</td>
<td></td>
</tr>
<tr>
<td>- Lifeboat (30 person): 1</td>
<td></td>
</tr>
<tr>
<td>- Cloaking Devices: 0</td>
<td></td>
</tr>
<tr>
<td>- Sensor Index Values:</td>
<td></td>
</tr>
<tr>
<td>- Planetary Survey: 0.9670</td>
<td></td>
</tr>
<tr>
<td>- Stellar Survey: 0.8608</td>
<td></td>
</tr>
<tr>
<td>- Short Range: 0.9834</td>
<td></td>
</tr>
<tr>
<td>- Long Range: 0.8754</td>
<td></td>
</tr>
<tr>
<td>- Navigation: 1.1198</td>
<td></td>
</tr>
<tr>
<td>- Special: 1.9397</td>
<td></td>
</tr>
<tr>
<td>- Computer: 2</td>
<td></td>
</tr>
<tr>
<td>- Type: Daystrom Duotronite IV+x</td>
<td></td>
</tr>
<tr>
<td>- Type: Daystrom Duotronite IIIb</td>
<td></td>
</tr>
<tr>
<td>- ECM Index: 1.12</td>
<td></td>
</tr>
<tr>
<td>- Shield Rating:</td>
<td></td>
</tr>
<tr>
<td>- Shield Index: 1.40</td>
<td></td>
</tr>
<tr>
<td>- Holdoff Power: 1.57E+12 W</td>
<td></td>
</tr>
<tr>
<td>- Refresh Rate: 4.47E+11 W</td>
<td></td>
</tr>
<tr>
<td>- Breakdown Rate: 5.37E+11 W</td>
<td></td>
</tr>
<tr>
<td>- Shield Dimensions (Meters)</td>
<td></td>
</tr>
<tr>
<td>- Length: 581.55 m</td>
<td></td>
</tr>
<tr>
<td>- Width: 265.82 m</td>
<td></td>
</tr>
<tr>
<td>- Height: 72.00 m</td>
<td></td>
</tr>
<tr>
<td>- Weapons:</td>
<td></td>
</tr>
<tr>
<td>- Phaser Power Index: 0.625</td>
<td></td>
</tr>
<tr>
<td>- Photon Power Index: 0.292</td>
<td></td>
</tr>
<tr>
<td>- Weapon Power Index: 0.458</td>
<td></td>
</tr>
<tr>
<td>- Weapon Placement:</td>
<td></td>
</tr>
<tr>
<td>- Beam (Phasers) Total: 10 banks 2 each</td>
<td></td>
</tr>
<tr>
<td>- Output: 7.50E+11 W / 3.76E+11 W</td>
<td></td>
</tr>
<tr>
<td>- Range: 4.10E+05 km</td>
<td></td>
</tr>
<tr>
<td>- Rate of Fire: 40 rpm / Cont.</td>
<td></td>
</tr>
<tr>
<td>- Forward Banks: 2</td>
<td></td>
</tr>
<tr>
<td>- Rear Banks: 0</td>
<td></td>
</tr>
<tr>
<td>- Port Banks: 4</td>
<td></td>
</tr>
<tr>
<td>- Starboard Banks: 4</td>
<td></td>
</tr>
<tr>
<td>- Upper Banks: 0</td>
<td></td>
</tr>
<tr>
<td>- Lower Banks: 0</td>
<td></td>
</tr>
<tr>
<td>- Beam (MegaPhasers) Total: 0</td>
<td></td>
</tr>
<tr>
<td>- Output: N/A</td>
<td></td>
</tr>
<tr>
<td>- Range: N/A</td>
<td></td>
</tr>
<tr>
<td>- Rate of Fire: N/A</td>
<td></td>
</tr>
<tr>
<td>- Forward/Rear Banks: 0</td>
<td></td>
</tr>
<tr>
<td>- Port/Starboard Banks: 0</td>
<td></td>
</tr>
<tr>
<td>- Upper/Lower Banks: 0</td>
<td></td>
</tr>
<tr>
<td>- Torpedoes (Photon) Total: 2 Bays</td>
<td></td>
</tr>
<tr>
<td>- Stock: 70</td>
<td></td>
</tr>
<tr>
<td>- Range: 2.90E+05 km</td>
<td></td>
</tr>
<tr>
<td>- Output: 10-55 Megatons</td>
<td></td>
</tr>
<tr>
<td>- Rate of Fire: 15 rpm</td>
<td></td>
</tr>
<tr>
<td>- Forward Bay: 2</td>
<td></td>
</tr>
<tr>
<td>- Rear Bay: 0</td>
<td></td>
</tr>
<tr>
<td>- Port Bay: 0</td>
<td></td>
</tr>
<tr>
<td>- Starboard Bay: 0</td>
<td></td>
</tr>
<tr>
<td>- Upper Bay: 0</td>
<td></td>
</tr>
<tr>
<td>- Lower Bay: 0</td>
<td></td>
</tr>
</tbody>
</table>
BULK CARGO CARRIER

General Information

Specific Role: The Bulk Cargo Carrier (BCC) is the super-tanker of the Federation. Often, starbase sections, starship parts (such as primary hulls or warp nacelles) and whole research stations are transported in BCCs. The responsibility of safely navigating this 1300 meter monster requires a serious crew and a disciplined captain. Many work Bees, heavy shuttle craft and shuttugs are needed to handle the immense cargo capabilities of the BCC. Despite the large size of this vessel, it is able to maintain a top cruising speed of warp four.

Physical Description: The overall design of the BCC is cylindrical in nature and has 78 (TB5/M40) tractor beam mooring stations spaced equally around the interior for handling and securing cargo. The (BS20/C-U8) bridge is centered on the top front center of the cargo hull and the (DN8/A12) navigational deflector protrudes from the front center of the main hull. The BCC has a (BP1/30-1C) phaser bank, during transit the Work Bees are in their Killer Bee attachments. A small hangar bay is directly underneath the main deflector dish. For warp propulsion, two (SW52/15RT) warp nacelles extend from the rear of the conical engineering section. The (M50/16-4B) intermix chamber runs vertically down from the deflection crystal to matter/antimatter storage facility. The core can be jettisoned through the deflection crystal in an emergency. The matter/antimatter storage tanks are positioned for emergency jettisoning at the rear of the engineering section underneath the warp nacelles. For sub-light propulsion, three high output (UHO80E/10BC) dual impulse units are located on the rear of the engineering section just above the warp nacelles. In the event of an emergency the warp nacelles can be jettisoned. The BCC can continue indefinitely without the warp nacelles but would require emergency assistance in the event of a warp core jettison.

Class Emblem

Ship Silhouettes

Total Target Area 123899.32 m²

Port Silhouette
Area 57340.42 m²

Top Silhouette
Area 57622.70 m²

Front Silhouette
Area 8936.20 m²
Ship Names

The following ships of the MK2-III class were authorized by the amended articles of Federation of Stardate 2270.11

Aaron • NCC-B1018
Veerkamp • NCC-B1020
Barkowski • NCC-B1023**
Bilderback • NCC-B1022**
Dawdy • NCC-B1027**
Gawlikowski • NCC-B1001
Giedens • NCC-B1007
Gladden • NCC-B1004
Gleason • NCC-B1006
Greathouse • NCC-B1009
Greiner • NCC-B1018
Henthorn • NCC-B1024**
Hutchins • NCC-B1026**
Kentwood • NCC-B1000
Matsik • NCC-B1025
Misikovsky • NCC-B1003
Moncivalis • NCC-B1011
Montelongo • NCC-B1005
Moody • NCC-B1008
Moser • NCC-B1010
Moyer • NCC-B1017
Nunnalle • NCC-B1023**
Sealy • NCC-B1021
Tulk • NCC-B1013
Vadder • NCC-B1015
Vasilios • NCC-B1014

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

Tractor Beam Specifications

Primary Tractor Beam Load Calculator

FEDERATION VESSEL

Warp Fields

SRM3 04:03:01:04

STARFLEET REFERENCE MANUAL
General Information

Specific Role: The Pershing class Cargo Drone is used to transport low priority cargo between inner Federation planets. Generally these vessels can be found navigating their way through commercial trade-routes at warp six. The drone's turn-around time in port is extremely fast since it does have a crew requiring leave or supplies.

Physical Description: The boxy construction of the Cargo Drone hides the efficiency of its design. The Central tower contains an auxiliary type (CD15/C-R5) bridge, a medium hangar bay and computer core. A (SM52/12D) high gain sensor array is located immediately forward of the central tower. The (PH245/CD1) primary hull consists mainly of standard storage with engineering section at the rear. The descending tower is the major cargo hold with hold number one and the light cargo hold located immediately forward. Two (DN5/C9) navigational deflectors are mounted on the front of the light cargo section. Holds two through five are located directly behind the lower tower in descending size. A tractor beam is mounted directly under hold number 5. The (M60/26-4H) intermix chamber is located between the the pylons with the matter/antimatter facilities at the rear. For sub-light propulsion, two (IRF35E/4-IR) single impulse drives are mounted to either side of the rear section. For warp propulsion, two (SW52/15CD) warp nacelles are mounted to either side of the engineering section on (DU/70-12F) pylons. No provisions have been made for jettisoning the warp core or nacelles since crew safety is not a concern. In the event of a warp core breach or catastrophic engine damage, a warning is broadcast on all frequencies describing the danger and distance required for safety purposes.

Class Emblem

Ship Silhouettes

Total Target Area 47441.00 m²

Top Silhouette
Area 25031.88 m²

Port Silhouette
Area 13197.86 m²

Front Silhouette
Area 9211.36 m²
**General Information**

**Specific Role:** The Ostoris Class Freighter is used primarily for the shipment of exotic food-stuffs and medical supplies not produced by many worlds. This vessel, commercially operated by many races, can be found between Federation rim colonies and starbases. The self-contained warp core/nacelles make this one of the safest vessels in the Federation.

**Physical Description:** The (BF5/C-F2) bridge is centered on top of the freighter's wedge shaped hull. A medium hangar bay, forward of the bridge, protrudes from the slope of the front hull. A (SQ8/A10) rectangular navigational deflector is mounted on the nose of vessel. Standard cargo modules are loaded through forward lock underneath the navigational deflector. Behind the bridge in the rear half of the vessel is the main cargo hold with six large cargo doors on top and six on bottom. This class vessel has two (BP2/30-2C) phaser banks and no photon torpedoes. The (IRF50E/6-IF) Impulse drive is located at the top-rear section of the main cargo hold above the rear cargo hatches. The self-contained (SC35/1-45F) warp core/nacelles can be jettisoned in an emergency and the freighter can continue on impulse until its fuel is depleted.
**Ship Names**

The following ships of the MK2-VI class were authorized by the amended articles of federation of Stardate 2265.8:

- Aboleds • NCC-F2651
- Acuna • NCC-F2610
- Aday • NCC-F2627
- Albertson • NCC-F2604
- Aldridge • NCC-F2683
- Arrendoro • NCC-F2680
- Ask • NCC-F2631
- Baize • NCC-F2676
- Bean • NCC-F2664
- Benavides • NCC-F2602
- Boomer • NCC-F2645
- Borella • NCC-F2622
- Bowmans • NCC-F2689
- Bradford • NCC-F2697
- Breshay • NCC-F2686
- Cadenehead • NCC-F2646
- Callander • NCC-F2668
- Carlat • NCC-F2624
- Carter • NCC-F2601
- Cates • NCC-F2614
- Chapa • NCC-F2670
- Cofer • NCC-F2653
- Cowan • NCC-F2668
- Dear • NCC-F2615
- Doshiere • NCC-F2666
- Dracos • NCC-F2664
- Dukesworth • NCC-F2618
- Earhart • NCC-F2633
- Fairbairn • NCC-F2637
- Fierro • NCC-F2629
- Foreman • NCC-F2639
- Griffins • NCC-F2649
- Grom • NCC-F2638
- Grizzell • NCC-F2626
- Gustafson • NCC-F2607
- Hartley • NCC-F2677
- Hasim • NCC-F2629
- Hasong • NCC-F2681
- Heinz • NCC-F2674
- Hill • NCC-F2663
- Hogan • NCC-F2661
- Hutenipiller • NCC-F2644
- Hyde • NCC-F2621
- Issacks • NCC-F2689
- Jasso • NCC-F2695
- Kleine • NCC-F2648
- Knight • NCC-F2667
- Langston • NCC-F2603
- Ledinck • NCC-F2612
- Lenox • NCC-F2671
- Louden • NCC-F2684
- Maccasland • NCC-F2685
- Mangrum • NCC-F2658
- Matteucci • NCC-F2617
- Mcelvaney • NCC-F2635
- Mclint • NCC-F2638
- Mcquaid • NCC-F2620
- Meisenheimer • NCC-F2693
- Mennenga • NCC-F2641
- Miroczewski • NCC-F2650
- Mulliken • NCC-F2611
- Munau • NCC-F2625
- Muniselle • NCC-F2605
- Murillo • NCC-F2684
- Nebra • NCC-F2679
- Nielas • NCC-F2632
- Northrup • NCC-F2675
- Opelstein • NCC-F2665
- Ostors • NCC-F2600
- Pacheco • NCC-F2659
- Perchuck • NCC-F2642
- Perryman • NCC-F2623
- Pfaffenberger • NCC-F2690
- Pina • NCC-F2694
- Prutt • NCC-F2682
- Ramkrisna • NCC-F2647
- Ramasudra • NCC-F2669
- Redus • NCC-F2692
- Rheudals • NCC-F2613
- Rildehube • NCC-F2672
- Rollo • NCC-F2650
- Saebeudin • NCC-F2657
- Segarra • NCC-F2616
- Shiflett • NCC-F2687
- Shumie • NCC-F2619
- Sirmore • NCC-F2674
- Stethheimer • NCC-F2636
- Striling • NCC-F2691
- Tarver • NCC-F2640
- Warren • NCC-F2692
- Warror • NCC-F2609
- Watson • NCC-F2628
- Wedge • NCC-F2606
- Weerasingshe • NCC-F2682
- Wilis • NCC-F2678
- Wilmeth • NCC-F2630
- Woman • NCC-F2673
- Yorty • NCC-F2686

"Class Ship, Lost in the line of duty, Proposed, All names preceded with U.S.S."
Specific Role: The Supply Tender is used primarily for the shipment of starship maintenance related cargo and parts. The Griffin Class supply tenders are often crewed by em star-fleet personnel knowledgeable about the repair and maintenance of many Federation vessels. In addition to hard-to-replicate starship parts, foodstuffs and other items are conveyed for trade and sale in exotic ports of call. Hundreds of supply tenders are also used in the private and commercial sectors since it a simple matter to convert the large cargo-bays for a variety of uses.

Physical Description: The (BG5/C-F2) bridge is centered on top of the vessel over the shuttle bay on the front slope of the hull. The (TR8/A10) trapezoidal navigational deflector is mounted on the nose of vessel. Sensor arrays are positioned on either side of the vessel just aft of bay three. The Supply Tender has eight large cargo doors, one on each end and six underneath the hangar bay. Cargo bay two is located directly forward of the hangar bay. Standard cargo modules are loaded through forward lock underneath the navigational deflector. This class vessel has four (BP2/30-2C) phaser banks and no photon torpedoes. The (IRF50E/6-1F) Impulse drive is located at the top-rear section of the main cargo hold above the rear cargo hatch. The self-contained (SC35/1-45F) warp core/nacelles can be jettisoned in an emergency and the tender can continue on impulse until its fuel supply is depleted.
**Stats**

**Classification:** Supply Tender  
**Category:** Cargo Vessel  
**Class:** Griffin  
**Type:** Class2  
**Model:** MK2-IV  
**Naval Construction Contract:** F41000  
**Number Proposed:** 82  
**Number Constructed:** 82  
**Number in Service:** 80  
**Number Lost:** 2

**Dimensions**
- **Overall Dimensions (Meters):** Length: 325.66 m, Width: 110.36 m, Height: 88.99 m  
- **Primary Hull Dimensions (Meters):** Length: 325.66 m, Width: 80.27 m, Height: 67.91 m  
- **Secondary Hull Dimensions (Meters):** Length: N/A, Width: N/A, Height: N/A  
- **Warp Unit Dimensions (Meters):** Length: 280.16 m, Width: 45.01 m, Height: 40.47 m

**Displacement (Metric Tons):**
- **Light:** 457305 mt  
- **Standard:** 489950 mt  
- **Full Load:** 546941 mt

**Performance:**
- **Impulse Units:** Dual Unit (RF50E/6-IF)  
- **Impulse Engine Output:** 3.00E+13 W  
- **Impulse Power Index:** 0.24

**Maximum Cruising:** C  
**Max Speed:** 7  
**Destructive Speed:** 7.2  
**Acceleration Time:**  
- Warp 1: 0.855 sec  
- Warp 2: 1.368 sec  
- Warp 3: 4.573 sec  
- Warp 4: 8.706 sec  
- Warp 5: 12.128 sec  
- Warp 6: 16.750 sec  
- Warp 7: 22.781 sec  
- Warp 8: 30.216 sec  
- Warp 9: 39.323 sec  
- Warp 9.5: 49.784 sec  
- Warp 9.75: 58.862 sec  
- Warp 9.75: 69.217 sec

**Maximum Duration (Years):** Standard: 7 Years, Maximum: 28 Years

**Standard Ships Complement:** 112

**Ships:**  
- **Officers:** 19  
- **Crew (Ensign Grade):** 93  
- **Troops:** 0  
- **Passengers:** 39  
- **Emergency Command:** +191.921

**Medical Facilities:**
- **Doctors:** 1  
- **Nurses:** 2  
- **Operating Rooms:** 1

**Laboratories:** 15

**Transporters Total:** 60

**Combat:**
- **Brids:** 30  
- **Replicants:** 161  
- **Tractor Beams:**  
  - **Tow Capacity:** 4.12E+06 mt  
  - **Max Range:** 1.23E+05 km

**Shuttlecraft Specifications:**
- **Docking Ports:** 1  
- **Shuttlecraft Bays Total:** 1  
  - **Small Bay:** 0  
  - **Medium Bay:** 1  
  - **Large Bay:** 0  
  - **Super Bay:** 0  
  - **Shuttlecraft Standard:** 16  
  - **Work Bees:** 2  
  - **Travel Pods:** 2  
  - **Aquatic Shuttle:** 1  
  - **Light Shuttle:** 1  
  - **Standard Shuttle:** 8  
  - **Heavy Shuttle:** 1  
  - **Cargo Shuttle:** 1  
  - **Assault Shuttle:** 0  
  - **Killer Bees:** 0  
  - **Light Fighter:** 0  
  - **Fighter:** 0  
  - **Heavy Fighter:** 0  
  - **Lifeboats:** 13  
  - **Turbolift (8 person):** 12  
  - **Lifeboat (10 person):** 1  
  - **Lifeboat (20 person):** 0  
  - **Lifeboat (30 person):** 0

**Cloaking Devices:** 1

**Sensor Index Values:**
- **Planetary Survey:** 0.2063  
- **Stellar Survey:** 0.4125  
- **Short Range:** 0.4125  
- **Long Range:** 0.8250  
- **Navigation:** 0.4923  
- **Special:** 0.2360

**Computer:** 2

**Weaponry:**
- **Phaser Power Index:** 0.125  
- **Photon Power Index:** 0.000  
- **Vessel Power Index:** 0.063  
- **Weapon Placement:**  
  - **Beam (Phaser) Total:** 3 banks 2 each  
  - **Output:** 5.00E+11 W / 2.5E11 W  
  - **Range:** 2.50E+05 km  
  - **Rate of Fire:** 30 rpm / Cont.  
  - **Forward Banks:** 1  
  - **Rear Banks:** 0  
  - **Port Banks:** 0  
  - **Starboard Banks:** 0  
  - **Upper Banks:** 1  
  - **Lower Banks:** 1  
  - **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:** 0 Bays  
  - **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

**ECM Index:** 0.50  
**Shield Rating:**  
- **Shield Index:** 1.17  
- **Holdoff Power:** 1.31E+12 W  
- **Refresh Rate:** 3.73E+11 W  
- **Breakdown Rate:** 4.47E+11 W  
- **Shield Dimensions (Meters):** Length: 488.49 m, Width: 158.04 m, Height: 103.49 m

**SRM3 04:03:04:02**  
**STARFLEET REFERENCE MANUAL**
**TRANSPORT SHIP**

**General Information**

**Specific Role:** The Sydney Class Transport Ship is a light-duty interstellar capable personnel/cargo transport vessel. Comfortable accommodations for up to 200 passengers and moderate cargo storage make this Starfleet affiliated vessel one of the most preferable ships for extended travel. Due to its moderate armorment, this class vessel avoids combat. The Sydney Class transport is often used for Starfleet Cadet training and familiarization with space-craft.

**Physical Description:** The (BS10/T-U2) bridge is centered on top of the Transport’s bulbous wedge shaped hull. A (SQ8/A10) rectangular navigational deflector is mounted on the nose of vessel. Directly behind the bridge are two (NA5/S2) navigational arrays. This class vessel has four (BP2/60-2T) phaser banks, located over and under the navigational array and one on each side of the ship just forward of the sensor arrays. The (IRF35E/8-IR) Impulse drive is located on the rear section of the vessel over the main cargo hold above the rear cargo hatches. Immediately underneath the rear cargo doors is a small hangar bay. For warp propulsion two (SW45/1-5SH) nacelles are mounted on (DU/22-3F) support pylons on either side of the hull. In the event of an emergency the warp nacelles and pylons can be jettisoned. Once separated, the transport can maneuver on impulse power for extended periods of time.

---

**Class Emblem**

**Sydney Class TRANSPORT SHIP**

---

**Ship Silhouettes**

- **Total Target Area:** 32165.47 m²

- **Top Silhouette**
  - Area: 19956.08 m²

- **Port Silhouette**
  - Area: 8670.34 m²

- **Front Silhouette**
  - Area: 3539.05 m²
**Specific Role:** Deuterium tankers are essential for the supply and refueling of starships. Tankers rarely travel unescorted in hostile areas since just about any space-faring vessel can use deuterium as a fuel source, including pirate vessels. Usually a few fighters accompany the tanker in the shuttle bay. A special fuel shuttle is standard issue with the tanker.

**Physical Description:** The modular design of the deuterium tanker allows it to be produced relatively inexpensively. The design revolves around a (SH117/C-M2) modified secondary hull with a (BS20/C-U8) standard bridge located over the front. The (DN2/D9) main navigational deflector is mounted in the very front of hull while a medium hangar bay is located in the rear facing aft. Two deuterium pods, with telescoping fueling booms, are mounted above and below the engineering hull on (DT/91-25F) connecting dorsals. Two (BP2/30-2C) phaser banks, one on the peak of each connecting dorsal, provide basic defense. Warp speed propulsion is provided by two (SW45/1-5RT) warp engine nacelles, mounted toward the rear, and are supported on (DU/35-6F) standard pylons. A (IRF35E/4-1R) dual impulse unit is located on the rear of the top tank connecting dorsal. In the event of an emergency the warp nacelles and deuterium pods can be independently jettisoned. The (M35/14-2E) intermix chamber can be ejected through the deflection crystal. The deuterium tanker can cruise on impulse for extended periods of time until help can arrive.
**Specific Role:** Neutronic fuel carriers are essential for the supply of fuel to less advanced civilizations that have not yet developed matter/anti-matter power systems. Neutronic carriers rarely travel unescorted in hostile areas since some less advanced space-faring vessels can convert the fuel. Usually a few shuttles accompany the tanker in the three small shuttle bays. Although this vessel is an older design, its cheap maintenance cost allow many to remain in service for exceptionally long careers.

**Physical Description:** The (FC5/C-F3) standard bridge is centered on the top of the rectangular primary hull. The (DN5/A9) main navigational deflector is mounted on the front of the (SH92/C-L2N) secondary hull which mainly consists of connecting pylons and access walk-ways. A small hangar bay faces forward and three small bays face aft. There is standard cargo storage between the front and rear bays. Slung underneath on (FP/101-17N) pylons are two high capacity module systems capable of holding 50,000 metric tons of neutronic fuel. 4 (BP1/15-1C) phasers: two forward, one to the rear and one underneath of the primary hull provide basic defense. Warp speed propulsion is provided by two (SC35/1-45F) self-contained warp engine nacelles, mounted to either side, and are supported on (KM/32-6F) standard pylons. A (IRF25E/2-1R) dual impulse unit is located on the rear of the primary hull just under the shuttle bays. In the event of an emergency, the self-contained (SC35/1-45F) warp core/nacelles and neutronic modules can be independently jettisoned and the carrier can continue on impulse until its fuel supply is depleted.
**Statistics**

**Classification:** Neutronic Fuel Carrier  
**Category:** Tanker  
**Class:** Kobayashi Maru  
**Type:** Class 2  
**Model:** Mk2-V  
**Naval Construction Contract:** S37000  
**Number Proposed:** 74  
**Number Constructed:** 74  
**Number In Service:** 73  
**Number Lost:** 1  

**Dimensions:**  
**Overall Dimensions (Meters):**  
- Length: 237.01 m  
- Width: 111.03 m  
- Height: 70.24 m  

**Primary Hull Dimensions (Meters):**  
- Length: 276.90 m  
- Width: 207.57 m  
- Height: 115.57 m  

**Secondary Hull Dimensions (Meters):**  
- Length: N/A m  
- Width: N/A m  
- Height: 45.47 m  

**Displacement (Metric Tons):**  
- Light: 138,086 mt  
- Standard: 147,943 mt  
- Full Load: 165,512 mt  

**Performance:**  
- Impulse Units: Dual Unit (RF2/SE2-1R)  
- Impulse Engine Output: 3.90E+13 W  
- Impulse Power Index: 0.78  
- Max Cruising: C  
- Acceleration Rate:  
  - 0.00-0.25 Impulse: 0.285 sec.  
  - 0.25-0.50 Impulse: 0.449 sec.  
  - 0.50-0.75 Impulse: 0.599 sec.  
  - 0.75- Full Impulse: 0.750 sec.  
- Warp Units: 2 Nacelle Units (SC35/1-45F)  
- Warp Engine Output: 3.02E+15 W  
- Warp Power Index: 0.79  

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optimus Speed</td>
<td>4</td>
</tr>
<tr>
<td>Max. Safe Cruising</td>
<td>8</td>
</tr>
<tr>
<td>Emergency Speed</td>
<td>6.5</td>
</tr>
<tr>
<td>Max. Speed</td>
<td>8</td>
</tr>
<tr>
<td>Destructive Speed</td>
<td>8.5</td>
</tr>
</tbody>
</table>

**Acceleration Power:** 3  
**Acceleration Times:**  
- Warp 1 - Warp 2: 0.258 sec.  
- Warp 2 - Warp 3: 0.413 sec.  
- Warp 3 - Warp 4: 1.562 sec.  
- Warp 4 - Warp 5: 2.246 sec.  
- Warp 5 - Warp 6: 2.401 sec.  
- Warp 6 - Warp 7: 2.585 sec.  
- Warp 7 - Warp 8: 3.330 sec.  
- Warp 8 - Warp 9: 4.763 sec.  
- Warp 9 - Warp 9.5: 10.585 sec.  
- Warp 9.5 - Warp 9.75: 12.263 sec.  

**Duration (Years):**  
- Standard: 7 Years  
- Maximum: 28 Years

**Std. Ships Complement:**  
- Officers: 14  
- Crew (Ensign Grade): 67  
- Troop: 0  
- Passengers: 324  

**Emergency Condition:** + 514,755

**Medical Facilities:**  
- Doctors: 2  
- Nurses: 5  
- Operating Rooms: 2  
- Beds: 11

**Laboratories:** 4

**Transports Total:** 17  
- Personnel: 0  
- Cargo: 0

**Sensor Index Values:**  
- Planetary Survey: 2.0623  
- Stellar Survey: 0.4125  
- Short Range: 0.4125  
- Long Range: 0.3850  
- Navigation: 0.2895  
- Special: 0.0706

**Computers:** 2  
- Type: Daystrom Dromontron II  
- Type: Daystrom Dromontron I

**ECM Index:** 0.50  
**Shield Rating:**  
- Shield Index: 0.44  
- Holdoff Power: 4.90E+11 W  
- Refresh Rate: 1.40E+11 W  
- Breakdown Rate: 1.80E+11 W  

**Shield Dimensions (Meters):**  
- Length: 355.52 m  
- Width: 168.55 m  
- Height: 105.36 m

**Deployment:**  
- Beam (Phasers): Total: 2 banks 2 each  
- Output: 8.00E+11 W / 2.50E+11 W  
- Range: 2.00E+05 km  
- Rate of Fire: 30 ppm / Cont.  
- Forward Banks: 1  
- Rear Banks: 1  
- Port Banks: 0  
- Starboard Banks: 0  
- Upper Banks: 0  
- Lower Banks: 0

**Beam (Beam 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  
- Torpedoes (Photon) Total: 0 Bays  
- Stock: N/A  
- Range: N/A  
- Output: N/A  
- Rate of Fire: N/A  
- Forward: 0  
- Rear: 0  
- Port: 0  
- Starboard: 0  
- Upper: 0  
- Lower: 0
# Ship Names

The following ships of the MK2-V class were authorized by the amended articles of Federation of StarDate 2252.2

- Abiko • NCC-S3767
- Aizuwakamatsu • NCC-S3754
- Akita • NCC-S3706
- Aomori • NCC-S3716
- Arima • NCC-S3779
- Asahigawa • NCC-S3708
- Beppu • NCC-S3722
- Choshi • NCC-S3771
- Fukui • NCC-S3736
- Fukushima • NCC-S3758
- Gungo • NCC-S3742
- Hagi • NCC-S3773
- Hakodate • NCC-S3761
- Hiroshima • NCC-S3720
- Hiroshima • NCC-S3773
- Ikeda • NCC-S3719
- Iwami • NCC-S3735
- Ishinomaki • NCC-S3704
- Iwakko • NCC-S3762
- Izumo • NCC-S3708
- Kagoshima • NCC-S3741
- Kajiki • NCC-S3759
- Kamaishi • NCC-S3727
- Kyuju • NCC-S3713
- Kisoro • NCC-S3765
- Koyama • NCC-S3744
- Kobe • NCC-S3746
- Kozu • NCC-S3712
- Kofu • NCC-S3721
- Komatsu • NCC-S3764
- Koryo • NCC-S3707
- Kure • NCC-S3749
- Kushiro • NCC-S3734
- Kyoto • NCC-S3743
- Maebashi • NCC-S3702
- Matsusato • NCC-S3701
- Minato • NCC-S3753
- Miyakonojo • NCC-S3768
- Morioka • NCC-S3733
- Muroran • NCC-S3713
- Nagano • NCC-S3758
- Nagasaki • NCC-S3769
- Nagoya • NCC-S3760
- Nagaoka • NCC-S3706
- Nagaoka • NCC-S3776
- Numazu • NCC-S3726
- Onomichi • NCC-S3747
- Otaru • NCC-S3718
- Osaka • NCC-S3729
- Sakata • NCC-S3743
- Sendai • NCC-S3702
- Shimonoseki • NCC-S3711
- Takada • NCC-S3739
- Takaoka • NCC-S3730
- Tanno • NCC-S3770
- Tanabe • NCC-S3750
- Tokyo • NCC-S3763
- Tottori • NCC-S3714
- Tsuchiura • NCC-S3717
- Tsunokawa • NCC-S3757
- Uchinoura • NCC-S3724
- Urawa • NCC-S3755
- Utsunomiya • NCC-S3750
- Urajima • NCC-S3725
- Wajima • NCC-S3727
- Wakayama • NCC-S3740
- Yamada • NCC-S3723
- Yamanaka • NCC-S3766
- Yamagata • NCC-S3766
- Yonago • NCC-S3744
- Yokosuka • NCC-S3731
- Yonezawa • NCC-S3753

*Class ship, "lost in the line of duty. Proposed, all names preceded with U.S.S.*

---

## Tractor Beam Specifications

<table>
<thead>
<tr>
<th>Tractor Beam Distance in Kilometers × 10²</th>
<th>Power per Warp</th>
</tr>
</thead>
<tbody>
<tr>
<td>163.0</td>
<td>4.910</td>
</tr>
<tr>
<td>160.7</td>
<td>4.419</td>
</tr>
<tr>
<td>158.4</td>
<td>3.920</td>
</tr>
<tr>
<td>156.1</td>
<td>3.437</td>
</tr>
<tr>
<td>153.8</td>
<td>2.945</td>
</tr>
<tr>
<td>151.4</td>
<td>2.455</td>
</tr>
<tr>
<td>149.0</td>
<td>1.960</td>
</tr>
<tr>
<td>146.7</td>
<td>1.475</td>
</tr>
<tr>
<td>144.3</td>
<td>0.980</td>
</tr>
<tr>
<td>141.9</td>
<td>0.491</td>
</tr>
</tbody>
</table>

---

## Federation Vessel

<table>
<thead>
<tr>
<th>Starfleet Reference Manual</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARP FIELDS SRM 04:03:07:04</td>
</tr>
<tr>
<td>Cross Section Area 76102.04 m²</td>
</tr>
</tbody>
</table>
**General Information**

**Specific Role:** The Rising Star Class Starliner is designed to provide uncrowded luxurious accommodations for up to 2000 passengers. The unusually large circular botanical level occupies the rim of the ship and has large windows giving a unsurpassed view of the stars. The Starliner also incorporates exceptionally comprehensive recreation facilities such as holodecks and gyms. Many races choose to tour the Federation on these ships, the full tour takes seven years, but many smaller one and two month cruises are offered as well. Only one starliner has ever been lost.

**Physical Description:** The (BS12/C-P5) standard bridge is centrally located atop the expansive hull. Centrally located underneath the hull is the (DN8/6N) navigation dome assembly. The lower hull incorporates the forward facing (DN7/A10) main deflector dish, cargo storage and three medium hangar bays facing aft. Defense is provided by four (BP2/60-2S) phaser banks, three on top and one underneath the front of the hull. Warp speed propulsion is provided by a (SW104/2-10SL) high density warp nacelle, mounted high on the rear portion of the vessel, and can be jettisoned in an emergency. A (IRF55E/2-IR) dual impulse unit is located under the rear of the engineering section aft of the shuttle bays. In an emergency the (M65/22-1E) intermix chamber can be ejected through the deflection crystal. The matter/antimatter storage facility is positioned between the shuttle bays and deflection crystal for jettisoning if necessary. If the warp nacelle or matter/antimatter storage facility have to be jettisoned, the starliner can continue on impulse for extended periods of time until help can arrive.
Ship Names

The following ships of the MK2-X class were authorized by the amended articles of Federation of StarDate 2270.11

- Asteroid Roamer • NCC-S 1234
- Aurora Borealis • NCC-S 1235
- Black Dwarf • NCC-S 1217
- Blue Giant • NCC-S 1207
- Celestial Sailer • NCC-S 1229
- Coal Nebula • NCC-S 1259
- Cosmic Sailer • NCC-S 1248
- Crab Nebula • NCC-S 1223
- Dark Cloud • NCC-S 1254
- Draco Constellation • NCC-S 1236
- Eta Carinae Nebula • NCC-S 1235
- Flare Star • NCC-S 1262
- Galactic Arm • NCC-S 1261
- Galactic Halo • NCC-S 1253
- Halley's Comet • NCC-S 1243
- Hertzsprung Star • NCC-S 1263
- Horsehead Nebula • NCC-S 1255
- Jupiter Aurora • NCC-S 1232
- Kepler Star • NCC-S 1228
- Lagoon Nebula • NCC-S 1242
- LightRay • NCC-S 1247
- Lunar Eclipse • NCC-S 1233
- Masse Imbrium • NCC-S 1258
- Milky Way • NCC-S 1266
- Morning Star • NCC-S 1224
- Nebula Flare • NCC-S 1203
- Nebula Roamer • NCC-S 1244
- Neutron Star • NCC-S 1260
- North Star • NCC-S 1218
- Northern Cross • NCC-S 1225
- Nova Jet • NCC-S 1202
- Nova Star • NCC-S 1221
- Olympos Mon's • NCC-S 1245
- Omega Nebula • NCC-S 1215
- Orion Nebula • NCC-S 1216
- Perseus Constellation • NCC-S 1249
- Taurus Constellation • NCC-S 1248
- Trifid Nebula • NCC-S 1227
- Ursa Major • NCC-S 1230
- Ursa Minor • NCC-S 1231
- Vula Pulsar • NCC-S 1240
- White Dwarf • NCC-S 1206
- Wolfgang Pulsar • NCC-S 1222

"Classship, "Lost in the Line of Duty," Proposed. All names preceded with U.S.S.

Warp Fields

SRM3 04:03:08:04

Starfleet Reference Manual
**General Information**

**Specific Role:** Buoy tenders are required to install and service the millions of buoys used by the Federation to provide safe travel references within the boundaries of explored space. The construction of the buoy tender is quite simple and cost effective, allowing several ships to be produced each year. Two separate dual impulse units provide precision low-speed maneuvering and reliability. When not performing buoy duties, a rare occurrence, these ship can be found deserted at any port of call where the crews take small breaks from their tedious duties.

**Physical Description:** The (BS20/C-U8) bridge is centered on the (PH320/C-L5) modified primary hull. Three medium hangar bays are bracketed by two (CA5/B2) navigational deflector/buoy confinement arrays on the front cut-away of the primary hull. Defense is provided by five (BP2/60-2C) phaser banks, three on top and two underneath. Two (IRF70E/8-IR) dual impulse units on the rear of the hull extension provide sublight propulsion. Located between the impulse drives is another medium hangar bay. To the rear of the hull are the (M80/28-4H) intermix chamber and matter/antimatter storage tanks. The storage tanks are located behind the impulse engines for emergency jettisoning. In the event of an emergency the primary hull can jettison the warp core and warp nacelle and proceed on impulse power.
BUOY TENDER

PORT PROFILE

CROSS SECTION

Statistics

Classification: Buoy Tender
Category: Support
Class: Niffen
Type: Class 2
Model: MKG-1
Nautical Construction Contract: S1600
Number Proposed: 96
Number Constructed: 96
Number in Service: 96
Number Lost: 0

Dimensions:
Overall Dimensions (Meters):
Length: 235.00 m
Width: 141.72 m
Height: 41.91 m
Primary Hull Dimensions (Meters):
Length: 180.32 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
Dispacement (Metric Tons):
Light: 107300 mt
Standard: 114960 mt
Full Load: 123532 mt

Performance:
Impulse Units: Dual Unit (IRF70E/B-R)
Impulse Engine Output: 1.56E+14 W
Impulse Power Index: 0.50
Max Cruising: C
Max Cruising: C
Max Acceleration Rate:
0.00-0.25 Impulse: 0.055 sec.
0.25-0.50 Impulse: 0.087 sec.
0.50-0.75 Impulse: 0.116 sec.
0.75-Full Impulse: 0.146 sec.
Warp Units: Nacelle Units (SWS2/1-SBT)
Warp Engine Output: 1.51E+15 W
Warp Power Index: 0.50

Optimum Speed: 4
Max. Safe Cruising: 5
Emergency Speed: 7
Max. Speed: 8.8
Destructive Speed: 8.4
Acceleration Power: 3

Acceleration Times:
Warp 1 - Warp 2: 0.401 sec.
Warp 2 - Warp 3: 0.642 sec.
Warp 3 - Warp 4: 2.427 sec.
Warp 4 - Warp 5: 3.491 sec.
Warp 5 - Warp 6: 3.731 sec.
Warp 6 - Warp 7: 4.032 sec.
Warp 7 - Warp 8: 5.776 sec.
Warp 8 - Warp 9: 7.403 sec.
Warp 9.5 - Warp 9.75: 19.058 sec.

Duration (Years):
Standard: 7 Years
Maximum: 28 Years

Std. Ships Complement: 215
Officers: 34
Crew (Ensign Grade): 166
Troops: 15
Passengers: 36

Emergency condition: +299.96

Medical Facilities:
Doctors: 2
Nurses: 5

Operating Rooms: 2
Bed: 11

Laboratories: 3

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

Bridge: 7
Replicators: 38
Tractor Beams:
Tow Capacity: 3.61E+06 mt
Max Range: 2.19E+05 km

Cargo Specification:
Standard Cargo Units: 182
Cargo Capacity: 9100 mt

Shuttlecraft Specifications:
Docking Ports: 3
Shuttlecraft Bays Total: 4
Small Bay: 0
Medium Bay: 4
Large Bay: 0
Super Bay: 0
Shuttlecraft Standard: 49
Work Bees: 3
Travel Pods: 3
Aquatic Shuttle: 2
Light Shuttle: 2
Standard Shuttle: 9
Heavy Shuttle: 2
Cargo Shuttle: 2
Shuttle Bays: 4
Killer Bees: 5
Light Fighter: 6
Fighter: 6
Heavy Fighter: 5

Lifeboats:
18
(9 person): 10
(10 person): 6
(20 person): 2
(30 person): 0

Cloaking Devices: 0

Sensor Index Values:
Planetary Survey: 0.7353
Stellar Survey: 1.707
Short Range: 0.7617
Long Range: 1.5234
Nave: 0.3993
Special: 0.4850

Computer: 2
Type: Daystrom Duotronic III

ECM Index: 0.50

Shield Rating:
Shield Index: 1.20
Holdoff Power: 1.33E+12 W
Refresh Rate: 3.65E+11 W
Breakdown Rate: 4.62E+11 W

Shield Dimensions (Meters):
Length: 352.50 m
Width: 212.58 m
Height: 62.87 m

Weapons:
Phase Power Index: 0.208
Photon Power Index: 0.000
Vessel Power Index: 0.104

Weapon Placement:
Beam (Phasers) Total: 5 banks 2 each
Output: 5.00E+11 W / 2.5E+11 W
Range: 2.50E+05 km
Rate of Fire: 20 ppm / Cont.
Forward Banks: 1
Rear Banks: 0
Port Banks: 2
Starboard Banks: 2
Upper/Below 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/Below Banks: 0
Lower Banks: 0
Torpedo (Photon) Total: 0 Bays
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

SRM3 04:03:09:02
STARFLEET REFERENCE MANUAL
# Ship Names

The following ships of the MK2-I class were authorized by the amended articles of federation of StarDate 2266.2

<table>
<thead>
<tr>
<th>Name</th>
<th>Registry Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARRENTZ</td>
<td>NCC-S1675</td>
</tr>
<tr>
<td>BATTAGLIA</td>
<td>NCC-S1612</td>
</tr>
<tr>
<td>BEPRINT</td>
<td>NCC-S1667</td>
</tr>
<tr>
<td>BERRYHILL</td>
<td>NCC-S1668</td>
</tr>
<tr>
<td>BETENBOUGH</td>
<td>NCC-S1690</td>
</tr>
<tr>
<td>BHAKATA</td>
<td>NCC-S1697***</td>
</tr>
<tr>
<td>BIVENS</td>
<td>NCC-S1628</td>
</tr>
<tr>
<td>BOEDEKER</td>
<td>NCC-S1656</td>
</tr>
<tr>
<td>BRILLANTE</td>
<td>NCC-S1677</td>
</tr>
<tr>
<td>BURAKOUSHI</td>
<td>NCC-S1608</td>
</tr>
<tr>
<td>BYRD</td>
<td>NCC-S1618</td>
</tr>
<tr>
<td>CANALE</td>
<td>NCC-S1601</td>
</tr>
<tr>
<td>CHRISTIANSEN</td>
<td>NCC-S1606</td>
</tr>
<tr>
<td>CLEVENGER</td>
<td>NCC-S1644</td>
</tr>
<tr>
<td>CLOSE</td>
<td>NCC-S1631</td>
</tr>
<tr>
<td>COLDRION</td>
<td>NCC-S1621</td>
</tr>
<tr>
<td>CREIGHTON</td>
<td>NCC-S1670</td>
</tr>
<tr>
<td>CUSTER</td>
<td>NCC-S1634</td>
</tr>
<tr>
<td>DALEY</td>
<td>NCC-S1603</td>
</tr>
<tr>
<td>DELUNA</td>
<td>NCC-S1640</td>
</tr>
<tr>
<td>DILLARD</td>
<td>NCC-S1616</td>
</tr>
<tr>
<td>EARMENSHAWS</td>
<td>NCC-S1693</td>
</tr>
<tr>
<td>EDGEMUSTER</td>
<td>NCC-S1661</td>
</tr>
<tr>
<td>ENGELHART</td>
<td>NCC-S1696</td>
</tr>
<tr>
<td>ESCRIBA</td>
<td>NCC-S1627</td>
</tr>
<tr>
<td>FITCHETT</td>
<td>NCC-S1690</td>
</tr>
<tr>
<td>FRANKEL</td>
<td>NCC-S1680</td>
</tr>
<tr>
<td>FRANTZ</td>
<td>NCC-S1669</td>
</tr>
<tr>
<td>GIBBS</td>
<td>NCC-S1664</td>
</tr>
<tr>
<td>GILLEAN</td>
<td>NCC-S1684</td>
</tr>
<tr>
<td>GINSEBURG</td>
<td>NCC-S1687</td>
</tr>
<tr>
<td>GLASGOW</td>
<td>NCC-S1695</td>
</tr>
<tr>
<td>HERREA</td>
<td>NCC-S1673</td>
</tr>
<tr>
<td>HIGHTOWER</td>
<td>NCC-S1613</td>
</tr>
<tr>
<td>HOLSTOW</td>
<td>NCC-S1648</td>
</tr>
<tr>
<td>HOLZHAUSEN</td>
<td>NCC-S1669</td>
</tr>
<tr>
<td>HOOKS</td>
<td>NCC-S1691</td>
</tr>
<tr>
<td>HOLLAND</td>
<td>NCC-S1669***</td>
</tr>
<tr>
<td>HOPPER</td>
<td>NCC-S1696***</td>
</tr>
<tr>
<td>HOUX</td>
<td>NCC-S1629</td>
</tr>
<tr>
<td>HULLUM</td>
<td>NCC-S1655</td>
</tr>
<tr>
<td>JIEK</td>
<td>NCC-S1679</td>
</tr>
<tr>
<td>KATARINA</td>
<td>NCC-S1649</td>
</tr>
<tr>
<td>KINCHLOGE</td>
<td>NCC-S1610</td>
</tr>
<tr>
<td>KITCHENS</td>
<td>NCC-S1619</td>
</tr>
<tr>
<td>LIPDON</td>
<td>NCC-S1605</td>
</tr>
<tr>
<td>LOONEY</td>
<td>NCC-S1645</td>
</tr>
<tr>
<td>LOSOYA</td>
<td>NCC-S1632</td>
</tr>
<tr>
<td>LOVELACE</td>
<td>NCC-S1623</td>
</tr>
<tr>
<td>MARX</td>
<td>NCC-S1671</td>
</tr>
<tr>
<td>MARSHBURN</td>
<td>NCC-S1602</td>
</tr>
<tr>
<td>MARZOUND</td>
<td>NCC-S1635</td>
</tr>
<tr>
<td>MAYSONE</td>
<td>NCC-S1641</td>
</tr>
<tr>
<td>MCCAFFERY</td>
<td>NCC-S1615</td>
</tr>
<tr>
<td>MCAFARIDGE</td>
<td>NCC-S1665</td>
</tr>
<tr>
<td>MCGLOTHIN</td>
<td>NCC-S1662</td>
</tr>
<tr>
<td>MCMAMAN</td>
<td>NCC-S1697</td>
</tr>
<tr>
<td>MELGOZA</td>
<td>NCC-S1661</td>
</tr>
<tr>
<td>METHWA</td>
<td>NCC-S1624</td>
</tr>
<tr>
<td>METTEAVER</td>
<td>NCC-S1638</td>
</tr>
<tr>
<td>MOLINA</td>
<td>NCC-S1665</td>
</tr>
<tr>
<td>MONTAGRAEN</td>
<td>NCC-S1650</td>
</tr>
<tr>
<td>MONTALDO</td>
<td>NCC-S1659</td>
</tr>
<tr>
<td>MONTGOMERY</td>
<td>NCC-S1694</td>
</tr>
<tr>
<td>MUELLER</td>
<td>NCC-S1666</td>
</tr>
<tr>
<td>NIFFEN</td>
<td>NCC-S1690</td>
</tr>
<tr>
<td>NIEUWENHAVEN</td>
<td>NCC-S1674</td>
</tr>
<tr>
<td>OELSCHLAGER</td>
<td>NCC-S1674</td>
</tr>
<tr>
<td>OMLYNEMACH</td>
<td>NCC-S1614</td>
</tr>
<tr>
<td>PALMENNE</td>
<td>NCC-S1646</td>
</tr>
<tr>
<td>PANETTIERE</td>
<td>NCC-S1667</td>
</tr>
<tr>
<td>PARAMESWAREN</td>
<td>NCC-S1692</td>
</tr>
<tr>
<td>PARTRICIANI</td>
<td>NCC-S1630</td>
</tr>
<tr>
<td>PECK</td>
<td>NCC-S1654</td>
</tr>
<tr>
<td>PEONKA</td>
<td>NCC-S1678</td>
</tr>
<tr>
<td>PRzyFLYSKI</td>
<td>NCC-S1669</td>
</tr>
<tr>
<td>RAINEF</td>
<td>NCC-S1620</td>
</tr>
<tr>
<td>RINGEL</td>
<td>NCC-S1607</td>
</tr>
<tr>
<td>ROOSLER</td>
<td>NCC-S1643</td>
</tr>
<tr>
<td>ROUGE</td>
<td>NCC-S1633</td>
</tr>
<tr>
<td>ROMANOFSKI</td>
<td>NCC-S1622</td>
</tr>
<tr>
<td>SALSER</td>
<td>NCC-S1672</td>
</tr>
<tr>
<td>SCETTO</td>
<td>NCC-S1689</td>
</tr>
<tr>
<td>SCHMUKER</td>
<td>NCC-S1636</td>
</tr>
<tr>
<td>SCHOLLMEYER</td>
<td>NCC-S1604</td>
</tr>
<tr>
<td>SETTLER</td>
<td>NCC-S1642</td>
</tr>
<tr>
<td>SHREWS</td>
<td>NCC-S1617</td>
</tr>
<tr>
<td>SHERWOOD</td>
<td>NCC-S1664</td>
</tr>
<tr>
<td>SNOELGRONE</td>
<td>NCC-S1660</td>
</tr>
<tr>
<td>STAMPS</td>
<td>NCC-S1688</td>
</tr>
<tr>
<td>STUCKY</td>
<td>NCC-S1682</td>
</tr>
<tr>
<td>TERUI</td>
<td>NCC-S1626</td>
</tr>
<tr>
<td>THERPE</td>
<td>NCC-S1637</td>
</tr>
<tr>
<td>THARPE</td>
<td>NCC-S1633</td>
</tr>
<tr>
<td>VALLANCE</td>
<td>NCC-S1652</td>
</tr>
<tr>
<td>VANDORNI</td>
<td>NCC-S1658</td>
</tr>
<tr>
<td>VAUGHN</td>
<td>NCC-S1693</td>
</tr>
<tr>
<td>YANEZ</td>
<td>NCC-S1676</td>
</tr>
<tr>
<td>YINGLING</td>
<td>NCC-S1611</td>
</tr>
</tbody>
</table>

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

---

**WARP FIELDS**

SRM3 04:03:09:04  STARFLEET REFERENCE MANUAL

---

**Tractor Beam Specifications**

Primary Tractor Beam Load Calculator

---

**FEDERATION VESSEL**

---

**Front Warp Field Profile**

Cross Section Area 11500.12 m²

**Port Warp Field Profile**

Cross Section Area 30265.22 m²

**Top Warp Field Profile**

Cross Section Area 69064.30 m²
General Information

**Specific Role:** The Faranarton Class Heavy Tug is based on the Kobayashi Maru hull. These tugs are widely used in ship-yards and space-dock construction facilities. Several work bees are stored in the hangar bays for accomplishing small tasks. Although this vessel is an older design, its cheap maintenance cost allow many to remain in service for exceptionally long careers.

**Physical Description:** The (FC5/C-F3) standard bridge is centered on the top of the rectangular primary hull. The (DN5/A9) main navigational deflector is mounted on the front of the (SH92/C-L2N) secondary hull which mainly consists of connecting pylons and access walk-ways. A small hangar bay faces forward and three medium bays face aft. There is standard cargo storage between the front and rear bays. Slung underneath on (FP/95-15N) pylons are two (TB110/H92) heavy duty-extended cycle tractor beam emitters, four (BP1/15-1C) phasers: two forward, one to the rear and one underneath of the primary hull provide basic defense. Warp speed propulsion is provided by two (SC35/1-45F) self-contained warp engine nacelles, mounted to either side, and are supported on (KM/32-6F) standard pylons. A (IRF25E/2-IR) dual impulse unit is located on the rear of the primary hull just under the shuttle bays. In the event of an emergency, the self-contained warp core/nacelles and neutronic modules can be independently jettisoned and the carrier can continue on impulse until its fuel supply is depleted.
**General Information**

**Specific Role:** The Todega Class Tug, with four warp nacelles, is a highly efficient tractor-beam workhorse and can be found throughout the Federation. Tugs are used extensively moving ships and starfleet facilities around which are unable to propel themselves. As a cost saving measure the hull is a modified Oberth Class research vessel upper section.

**Physical Description:** The (SH103/A-T6) primary hull is equipped with additional power conduits and back-up systems. The vessel is equipped with a (BTS5/A-C5) bridge which incorporates additional navigational instrumentation. On the lower part of the hull is the (SM15/4G) main sensor array and (DN2/2R) navigational dome. Positioned forward of the bridge is a (BP2/30-2C) phaser bank. At the rear of the primary hull are two (ISR10E/2-SA) dual impulse units which are used for auxiliary power and sub-warp propulsion. The vessel's warp fields are generated by four (SU38/1-2RT) warp nacelles attached to each side of the hull. Running horizontally between the nacelles is the (M24/3-2T) intermix chamber. Installed to the rear of the hull are the (AM3/15-2H) matter/antimatter storage tanks for emergency jettisoning. On the front of the hull is a small hangar deck. Slung underneath the primary hull by two (DT/30-15G) connecting dorsals is a (TB110/H92) tractor beam emitter. In the event of an emergency, the primary hull can separate from one or more of the warp nacelles and proceed on the remaining nacelle(s) or impulse power for extended periods of time.

---

**Class Emblem**

![Todega Class Tug Emblem]

---

**Ship Silhouettes**

*Total Target Area 10498.00 m²*

- **Top Silhouette**
  - Area 7342.79 m²
- **Port Silhouette**
  - Area 4094.01 m²
- **Front Silhouette**
  - Area 1717.80 m²
**General Information**

The Container tug is a specific mission-oriented vessel for the warp transport of single containers. When one or two containers are needed in a hurry, the Deliverer class is the swiftest tug available.

With few support systems and one weapon system, this vessel can use 98% of its power for warp propulsion. A Manasu Class Dockport craft is always attached to the docking ring on the rear of the bridge.

**Statistics**

<table>
<thead>
<tr>
<th>Classification: Support Ship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category: Container Tug</td>
</tr>
<tr>
<td>Class: Deliverer</td>
</tr>
<tr>
<td>Type: Class 2</td>
</tr>
<tr>
<td>Model: PLL-III</td>
</tr>
<tr>
<td>Naval Construction Contract: S200</td>
</tr>
<tr>
<td>Number Proposed: 130</td>
</tr>
<tr>
<td>Number Constructed: 130</td>
</tr>
<tr>
<td>Number in Service: 125</td>
</tr>
</tbody>
</table>

**Dimensions**

- **Size (Dimensions Meters):**
  - Length: 202.63m
  - Width: 40.43m
  - Height: 48.83m
- **Warp Unit Dimensions (Meters):**
  - Length: 163.61m
  - Width: 12.39m
  - Height: 17.96m
- **Displacement (Metric Tons):**
  - Standard: 57,506.22t
  - Full Load: 73,506.22t

**Performance**

- **Impulse Units: Dual Unit (PF-55E/F4)**
- **Impulse Engine Output:** 7.8x10^12 W
- **Max Cruising:**
  - Accelerated Rate: 0.50-0.50 Impulse: 0.287 sec.
  - 0.50-0.50 Impulse: 0.381 sec.
  - 0.50-0.70 Impulse: 0.474 sec
  - 0.75-Full Impulse: 0.666 sec
- **Warp Engine Output:** 6.0x10^14 W
- **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: 0.748 sec
  - Warp 2: 1.200 sec
  - Warp 3: 1.716 sec
  - Warp 4: 2.352 sec
  - Warp 5: 3.061 sec
  - Warp 6: 4.052 sec
  - Warp 7: 5.055 sec
- **Duration (Years):** 7 Years 30 Max
- **St. Ships Complement:** 20
  - Crew (Ensign Grade): 18
  - Troops: 0
  - Passengers: 0
  - Emergency condition: 4
- **Medical Facilities:**
  - Doctors: 1
  - Nurses: 1
  - Operating Rooms: 1
  - Beds: 2
- **Transporter Total:** 2
  - Person: 1
  - Small Cargo: 1
  - Large Cargo: 1
  - Towed Capacity: 3.0x10^10 kg
- **Max Range:** 9.0x10^11 km
- **Shuttlecraft Specifications:**
  - Docking Port: 1
  - Shuttlecraft Standard: 1
  - Travel Pods: 0
  - D/F Shuttle: 1
  - Lifeboats: 4
  - Sublight (8 Person): 4
  - Sensor/Scanner Values:
    - Planetary Survey: 0.225
    - Stellar Survey: 0.597
    - Short Range: 0.475
    - Long Range: 0.475
    - Special: 0.721
- **Computers:** 2
  - Type: Daystrom Detriconic II
  - Type: Daystrom Detriconic IV
- **High-Power Shield:**
  - Holdoff Power: 2.4x10^12 W
  - Breakdown Rate: 7.5x10^11 W
  - Shield Dimensions (Meters):
    - Length: 82.04 m
    - Width: 121.95 m
    - Height: 118.20 m
- **Weapons:**
  - Weapon Placement:
    - Beam (Phaser) Total: 1 bank 2 each
    - Output: 5.0x10^11 W / 2.5x10^11 W
    - Range: 2.5x10^12 W
    - Rate of Fire: 30 rpm/Cont
    - Forward Banks: 1

---

**STARFLEET REFERENCE MANUAL**

**SRM3 04:04:01:01**
**General Information**

The Container Warp Extender simply extends a warp field by using a technique called sub-space resonance coupling. The design consists of an intermix chamber, warp coils and fuel cells in a single housing mounted to a container attachment plate. Explosive bolts can blow the whole unit clear of the container in the event of an emergency.

**Statistics**

- **Classification**: Support Vehicle
- **Category**: Container Warp Extender
- **Class**: Enhancer
- **Type**: Class 6
- **Model**: PLL II
- **Navy Construction Contract**: V200
- **Number Proposed**: 400
- **Number Completed**: 400
- **Number in Service**: 0
- **Number Lost**: 0

**Dimensions**

- **Overall Dimensions (Meters)**
  - Length: 96.46m
  - Width: 29.64m
  - Height: 29.71m
- **Warp Unit Dimensions (Meters)**
  - Length: 58.86m
  - Width: 27.12m
  - Height: 17.11m

- **Displacement (Metric Tons)**
  - Standard: 20,926m
  - Full Load: 21,405m

- **Performance**
  - Impulse Units: N/A
  - Impulse Power Output: N/A
  - Max Cruising: N/A
  - Acceleration Rate:
    - 0.05-0.15 Impulse: N/A
    - 0.50-0.60 Impulse: N/A
    - 0.75-0.85 Impulse: N/A
  - Warp Drive: 1 Naisa Uno (MP50/65)
  - Warp Engine Output: 2x10^14 W
  - Optimum Speed: Slave Mode
  - Max. Safe Cruise: Slave Mode
  - Emergency Speed: Slave Mode
  - Max. Speed: Slave Mode
  - Destructive Speed: Slave Mode
  - Acceleration Power: 3.0
  - Acceleration Times:
    - Warp 1: N/A
    - Warp 2: Slave Mode
    - Warp 3: Slave Mode
    - Warp 4: Slave Mode
    - Warp 5: Slave Mode
    - Warp 6: Slave Mode
    - Warp 7: Slave Mode
    - Warp 8: Slave Mode
  - Duration (Years)
    - Standard: 5 Years 25 Max

**Federation Container**

- **Officers**: N/A
- **Crew**: N/A
- **Troops**: N/A
- **Passengers**: N/A
- **Emergency Condition**: N/A
- **Medical Facilities**: N/A
- **Doctors**: N/A
- **Nurses**: N/A
- **Operating Rooms**: N/A
- **Beds**: N/A
- **Transporter Total**: N/A
- **6 Person**: N/A
- **Small Cargo**: N/A
- **Tractor Beam**: N/A
- **Tow Capacity**: N/A
- **Max Range**: N/A
- **Shuttlescraft Specifications**
  - Docking Ports: N/A
  - Shuttlescraft Standard: N/A
  - Travel Pods: N/A
  - Light Shuttle: N/A
  - Lifeboats: N/A
  - Turbolift (8 person): N/A
- **Sensor Array Values**
  - Planetary Survey: N/A
  - Stellar Survey: N/A
  - Short Range: N/A
  - Long Range: N/A
  - Navigation: N/A
  - Special: N/A
- **Comms**
  - Type: N/A
  - Frequency: N/A
  - Shield Rating:
    - Holdoff Power: 2x10^17 W
    - Breakdown Rate: 1.2x10^17 W
    - Shield Dimensions (Meters)
      - Length: 624.88m
      - Width: 121.15m
      - Height: 118.29m

**Weapons**

- **Weapon Placement**: N/A
- **Beam (Phase) Total**: N/A
- **Output**: N/A
- **Range**: N/A
- **Rate of Fire**: N/A
- **Forward Banking**: N/A
The Deuterium Container is a modular deuterium super-tanker system. Each pod can be independently removed for use or service and can be jettisoned in an emergency.
General Information

The Tender container carries parts and repair facilities normally too large or obscure to be included in a starship's inventory. When attached to a container tug this facility can get to stranded vessels and replace their warp core or repair hull breaches before it has to be abandoned. Starfleet has saved much time and money with this system.

Statistics

Classification: Container
Category: Tender Container
Type: Class 7
Model: MK-XVI

Dimensions:
Overall Dimensions (Meters):
Length: 235.05m
Width: 48.00m
Height: 46.00m
Displacement (Metric Tons):
Standard: 235,347mt
Full Load: 347,442mt

Duration (Years):
Standard: 15 Years
Maximum: 20 Years

STD. Container Complement:
Officers: 15
Crew (Ensign Grade): 100
Passengers: 30

Emergency condition: +200

Medical Facilities:
Doctors: 2
Nurses: 8
Operating Rooms: 3
Beds: 10

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

Tractor Beams: 0
Tow Capacity: 1.25x10⁶mt
Max. Range: 2.51x10⁹km

Cargo Specifications:
Standard Cargo Units: 150
Cargo Capacity: 7,500 mt
Deck Height: 2.4 m

Shuttlecraft Specifications:
Shuttlecraft Bays Total: 3
Small Bay: 0
Medium Bay: 1
Large Bay: 2
Super Bay: 0
Shuttlecraft Standard: 13
Work Bees: 2
Travel Pods: 1
Light Shuttle: 1
Standard Shuttle: 2
Passenger Shuttle: 1
Light Cargo Shuttle: 2
Cargo Shuttle: 2
Heavy Cargo Shuttle: 2
Lifeboats: 7
Turbolift (8 person): 5
Lifeboat (10 person): 0
Lifeboat (20 person): 2
Lifeboat (30 person): 0

Docking Rings: 2

Computer: 1

Type: Daystrom Duotronic II

Shield Rating:
Holdoff Power: 3.24EB
Refresh Rate: 9.21EB
Shield Dimensions (Meters):
Length: 282.01m
Width: 57.6m
Height: 57.6m
CLOSING

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 who is interested in the new ships and systems. I am forced to do this, as I can only so much time to write this book.

Stardate Errata

In place of the stardates, I have used the actual YEAR-MONTH due to the fact that I cannot 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 add the month and year to the stardate system you are acquainted with.

Warp Speed Errata

I have found 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 the computer draws based on the number of systems and the time the ship was built. 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 is included at the beginning of the ship section so that you can convert back to the old warp numbers.

Error in Cross Section

The cross section that appears in the back of the bridge is seriously flawed. If we assume the established length is 467 meters and the height is 74.93 meters. The bridge display cross section has 36 decks which works out to 2.08 meters (6.5 feet) per deck. This is a little on the short side since the average room height is 8 feet. The established deck height is 2.75 meters, which works out to 9 feet (5 feet to live in and 1 foot for flooring, closets, supports and extra seldom seen high tech items). The location of the navigational deflector is shown over the cowling and not through as seen in the movie. The forward photon torpedoes are positioned in the connecting dornail which would cause them to shoot off the navigational dome, which is probably a good reason why they had no torps until Tuesday. I changed the torp placement back to the original established location. I moved the rear torps into their original location for the same reason. The Intermix chamber had to be moved since the new navigational deflector placement conflicted with the jettisoning of the core. The core is aligned with the deflection crystals, located on the upper engineering deck, which allows the core to be jettisoned through a plate in the navigational deflector opening. I have tried to match the remaining information provided in the cross section which shows the addition on the primary hull to be shuttle hangers (in the photos they look more like impulse engines). I decided to use them as hanger decks, but feel free to call them what you want.

Acknowledgments

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

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 worked with the following magazines: Starlog, Future, Fantastic Films, Challenge, Stardate, Science Fiction Modeller, 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.

Thanks goes out to Joe Bob Williams for being my best distributor, his help on getting this book republished and to being a very unique individual.

I would also like to make note of Roy Firestone for his publication Galactic Engineers Concordance which is a non profit Techazine that he publishes 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 Magne Kristiansen, Richard Fisher, Don Shanks, Paul Hollingsworth, Scott Bell, Alex Rosenzweig, Thomas Sasser and Jim 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 and the like, I worked from what they had set down to create my starships. 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 Roseanna for her help with the naming of ships in this book 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 Joshua and Michael Babunovic for their suggestions that he has used in this book.

And I would like to thank Eugenio Anguera 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 finally Tiny I'm still not worthy but after moving you back from Houston I'm getting close.

What is 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! To produce this book I used Canvas version 3.5b2. While having its own drawbacks, Canvas has so much more power that I am able to produce a more professional product. Additional programs that I have used are WinDagraf spreadsheet program used to calculate the ship statistics and warp speed conversions; Cricket Graph, Delta Graph (graphing programs to produce the graphs); MacWrite Pro (word processing program used to write the text); and Adobe Illustrator to help in small ways but are too numerous to list.

This book takes up over 80 Meg as compared to 34.1 Meg for Vol 1 and 46.5 Meg for Vol 2. This book contains 30,612 words which works out to 152,892 characters, just in case you wanted to know and 448,619 drawing elements (lines, circles, squares, etc.) and over 49.9 miles of mouse travel (determined by a program called Mouse Odometer) which works out to well over 263,472 full mouse pad traversals.

Information About Back Page

I have provided the address 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.

Jackill's Enginers

Chris Hatfield (C1), Dr. Eugenio Anguera III (E3), Mark Wilson (E2:3), Shane Johnson (E2), Roger Sorensen (E1:2), Michael Alexander (E1), Scott Bell (E1), Bill Millward (E1), Alex Rosenzweig (E1), Thomas Sasser (E1:1), Don Shanks (E1).

Thanks for the contributions

I would like to thank the contributors to this issue, Michael Alexander (Cruiser, based of his NX-1701 drawings), Mark Wilson (Deuterium Tanker, Through Deck Cruiser, Through Deck Cruiser design led to the Dreadnought, Tactical, and Transport/Flagship), Don Shanks (Frigate), Alex Rosenzweig (Light Cruiser, based on earlier designs he sent me) and finally Shane Johnson (Destroyer based of his Joshua Class Command Cruiser).

I wanted to include the Kobayashi Maru to the support section, but I did not want to create a forth design (This ship has been drawn three times, each design looking different) I decided to base mine on Roger Sorensen's Kobayashi Maru blueprints (The originality and quality of these blueprints is wonderful, and I recommend these blueprints if you are a collector).

Concern (My own personal soap box)

Always remember the government works for us, they are there to protect our freedoms but don't take them away.

WAIVER DISCLAIMER

WARNING: This book will exert an equal but opposite force to any force applied to it. This is not unique to this book.

CAUTION: If the matter in this book were to instantaneously convert into pure energy the outcome of this explosion would destroy this world and cause massive damage to whatever ship would cause damage to the whole system. This feature is not unique to this book and is the responsibility for any damage that might occur.

NOTE: Any reference to any living, dead or non-corporal is purely coincidental and most likely a figment of your imagination and you should seek a professional help.

© Eric Kristiansen 1993.