STAR TREK
THE OFFICIAL STARSHIPS COLLECTION

U.S.S. ENTERPRISE™
NCC-1701-D

GALAXY CLASS
LAUNCHED: 2363
LENGTH: 641 METRES
NUMBER OF DECKS: 42
04: PROFILE: U.S.S. ENTERPRISE NCC-1701-D

08: CLASSIC SCENE

12: DESIGNING THE SHIP

16: FILMING THE SHIP

18: ON SCREEN

Stand assembly:

Put the hooks over the saucer.

Slide the stand in from the back of the engineering hull.

The lower part of the stand cradles the engineering hull.

EAGLEMOSSE COLLECTIONS

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Development Director: Maggie Calmels

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**U.S.S. Enterprise NCC-1701-D**

**SPECIFICATION**

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The U.S.S. ENTERPRISE NCC-1701-D entered service in 2363 under the command of Starfleet veteran Captain Jean-Luc Picard.

The U.S.S. Enterprise NCC-1701-D was more than a third of a mile long, and had a crew of over 1,000 people.
When the Galaxy-class U.S.S. Enterprise NCC-1701-D was launched in 2363 – 94 years after Captain Kirk completed his first, legendary five-year mission on the U.S.S. Enterprise NCC-1701 – it was the largest, most advanced vessel Starfleet had ever constructed.

The Enterprise-D was an awe-inspiring technical achievement that was the result of 20 years of development work from the finest engineering minds of the Federation Advanced Starship Design Bureau, including Dr. Leah Brahms, who was largely responsible for the design of the warp engines.

The Enterprise-D followed the same basic design layout as previous Enterprises, but it was sleeker due to advancements in hyperflight dynamics, and the saucer section was larger in proportion to the secondary or engineering hull. At 641m in length and with 42 decks covering 3.5 million square metres, it had eight times as much interior space as Captain Kirk’s Enterprise. This meant there was 110m² of living space per person.

**A SCIENTIFIC MARVEL**
The Enterprise-D’s specifications were mind-boggling: it had more than 4,000 internal systems, including two LF-41 warp engines that gave it a top sustainable speed of warp 9.6 (1,909 times the speed of light). It also had a high-capacity shield grid, 12 Type-X phaser arrays, three torpedo launchers and a complement of 250 photon torpedoes.

Facilities on board included three sickbays, 20 transporter systems and more than 100...
research labs dedicated to disciplines such as stellar cartography, exobiology, cybernetics, astrophysics, geosciences, archaeology, cultural anthropology and botany.

Amenities included 16 holodecks, a phaser range, a theatre, a gym, a salon, a restaurant/bar called Ten-Forward, classrooms and even an arboretum. In other words, it had everything the crew of 1,012 could need and it could operate for up to seven years without needing to return to a starbase for refurbishment. Even Captain Picard was "in awe of its size and complexity" and a person could live on it for years and still not know their way around all the parts of it.

The unprecedented size of the Enterprise-D and its comprehensive facilities were provided because Starfleet had decided that the crew would include families and children. It was felt that Starfleet personnel were far more likely to sign up for exploratory missions, which often took years, if they could take their families with them and think of the ship as home.

There are always inherent risks involved in space exploration, but this was a period of unprecedented peace for the Federation – it was after the threat of war with the Klingons and the Romulans had been removed by the Khitomer Accords (2293) and the Treaty of Algeron (2311), and before new dangers emerged in the shape of the Borg and the Dominion. It was therefore felt that it was safe enough to place families on board, especially as Galaxy-class starships had a neat trick in an emergency – they could split into two autonomous spacecraft.

All non-essential personnel could be evacuated to the saucer section, which could then detach from the engineering hull and retreat to safety under its own impulse power, while the remaining
The Enterprise-D had 20 transporter rooms, including six main personnel transporters. They were capable of beaming individuals distances of up to 40,000km almost instantaneously.

Stardrive section, which was capable of warp flight and optimized for combat, engaged the threat. The two sections could then reattach once the danger was over.

**PICARD’S STARSHIP**

The Enterprise-D was constructed under the supervision of Commander Orfil Quinteros at the Utopia Planitia Fleet Yards, 16,625km above Mars. Its primary mission was one of exploration, but it was also regularly tasked with diplomatic and humanitarian missions and defending the security of the Federation.

The ship remained under the command of Captain Picard throughout its career, apart from one brief period when Captain Edward Jellico took command when Picard was on a covert mission. It played a major role in defending the Federation against the Borg (when Riker was given a field promotion to captain) and in the blockade of Klingon space during the Klingon civil war.

It was designed to be operational for approximately 100 years with major refits scheduled for every 20 years, but it was in service for just eight years before it was destroyed by a renegade Klingon vessel led by the Duras sisters in the Veridian System in 2371.

The Galaxy class followed the same design principles that Zefram Cochrane established on Earth’s first faster-than-light ship and used twin nacelles to generate fields that warped space.

**DATA FEED**

The Enterprise-D had a crew of 1,012 that included a significant number of civilians such as Mot the Bolian barber and botanist Keiko O’Brien. As you would expect on a Federation ship, the Enterprise-D’s crew was made up people from many different planets and species. In 2366, there were said to be 13 different species on board, while in 2369 there were 17 members of the crew from non-Federation worlds, including the Bajoran Ro Laren.
Like all Galaxy-class ships, the U.S.S. Enterprise NCC-1701-D was designed to separate into two autonomous craft and then reattach into a fully functioning single vessel again.

This ability was a remarkable feat of engineering and resulted in huge advantages. In the event that the ship came under severe threat, all non-essential personnel could be moved to the Saucer section. It would then detach from the Stardrive section and retreat to safety under its own engine power.

The Stardrive section, or Battle section, which contained the majority of the weapons systems, could then engage the threat with only essential crew on board. Once the danger was over, the two halves could rendezvous and reconnect into a single vessel.

In exceptional circumstances, the two separate sections of the ship could engage the threat together, attacking from different angles and in effect doubling the firepower, giving them a tactical advantage.

During its eight years of service the Enterprise-D employed its saucer separation maneuver on four occasions. The first time was during its inaugural mission in 2364 when the ship was threatened by the seemingly omnipotent being Q. The second time was later that year when it came under attack from the automated Minosian weapons system. The third occasion was during the Borg incursion of 2367 when it proved pivotal in rescuing the assimilated Captain Picard.

The final time it was employed was in 2371 when it saved the lives of the entire crew after an attack led by the Klingon Duras sisters.
Once it had separated the ENTERPRISE-D could operate as two independent ships. The intention was for the Saucer section to head to safety.

**DATA FEED**

The Constitution-class U.S.S. Enterprise NCC-1701 commanded by captains Kirk and Pike could also separate the saucer section from the rest of the ship, though the idea was that this would only be used to save the crew when the ship was in danger of being destroyed.

Once the saucer had been released, the docking clamps retracted and both sections operated independently.

‘neck’ of the stardrive section released the saucer section.
DEFLECTOR DISH
One of the most important features of the Enterprise-D was its navigational deflector. This oval shaped device was located on the front of the Stardrive section and pushed space debris clear of the ship’s path. At warp speeds even microscopic particles of asteroids or other particulates could cause massive damage if they collided with the ship’s hull. The deflector dish projected a powerful graviton beam that swept large objects, such as asteroids, out of the way. At the same time, a low-power beam, created a shield nearly two kilometers ahead of the ship that deflected the microscopic interstellar debris out of the way.

The long range sensors were directly behind the deflector dish. These were located on decks 32-38 and were the most powerful scientific instruments aboard the Enterprise-D.

DATA FEED
The Enterprise-D’s most powerful weapons were its photon torpedoes. Each one had a yield of 18.5 isotons and had a range of 3.5 million km. Launchers were fitted to the neck and the rear of the stardrive section between the nacelle pylons.
The surface of the hull was marked by 400 escape pod hatches. Starfleet called them ‘autonomous survival and recovery vehicles’ and each one could sustain four occupants for up to 86 days.

Located on Deck 1 at the top of the saucer section, this egg-shaped room was the nerve center of the ENTERPRISE-D and from where all aspects of running the ship and directing its missions were controlled.
In October 1986 it was officially announced that a new *STAR TREK* series would be hitting TV screens in September 1987. Among the huge challenges *STAR TREK* creator Gene Roddenberry faced in making the new series was the ‘simple’ problem of updating the technology and in particular the *Starship Enterprise*. The original ship was seen as a character that was just as important to the show as Kirk, Spock and McCoy, so it was vital that the design of the ship was right.

With this in mind, one of the first people Gene Roddenberry hired to work on the new show was concept designer Andrew Probert, who had previously worked on *STAR TREK: THE MOTION PICTURE* as a concept designer/illustrator.

The first item Probert turned his mind to designing was the Main Bridge as this would be the most-filmed area aboard the ship. He knew that the interior had to be iconic.
to match the exterior of the ship, so he pinned up some sketches he had already made of what the Enterprise might look like for inspiration. These illustrations were based on an earlier painting he had come up with shortly after the first STAR TREK movie when, for his own amusement, he thought about what a starship might look like even further into the future.

While Probert was developing his ideas, STAR TREK writer and producer David Gerrold stopped by, noticed these design sketches and asked if this was the new Enterprise. Probert replied that he had no idea at this stage, but before he knew it, Gerrold had taken the sketch and disappeared. When Gerrold reappeared a short time later, he told Probert that it was indeed going to be the new Enterprise.

To say Probert was taken aback at this news would be a massive understatement. "In answer to my astonished look and babbling,” says Probert, “Gerrold explained that he took the sketch into a producers’ meeting and they all agreed that was to be the new ship. It really sent my head spinning. From that point on, it was a matter of refining the shapes and adding the details."

Probert wanted to create an advanced version of Kirk’s ship and hoped to retain the feel of its forebear to assuage the reservations some STAR TREK fans had about their beloved original version being “replaced.”
As a result, he kept the basic layout of the ship the same, but changed its proportions, making the Saucer Section much larger in relation to the engineering hull. He also kept the warp nacelles at the rear of the ship, but unlike on the original Enterprise where they were positioned above the saucer rim, he moved them down to a position between the two hull sections, closer to the ship’s centre of mass.

**MOVING FORWARD**

Another change Probert made was to slant the struts holding the saucer section and warp engines towards the front of the ship. This gave the new Enterprise a “feeling of aggressive forward movement, like a lunging cat,” as he describes it.

Probert’s initial sketch worked so successfully that Gene Roddenberry had only two changes. He wanted the Main Bridge put back on top of the Saucer Section as Probert had moved it somewhere in the middle of the ship (where it would be protected) and for the warp nacelles to be made longer.

The only part of the design that caused any real problems was that it had to separate and that the two sections had to look as good apart as they did together. Probert’s initial design did not take this into account, and when he showed the producers how he envisioned this might work, it was not what they wanted. “What I came up with was a shape like the letter D,” says Probert. “If you lay that down on top of the saucer with the round part toward the front and then extend the serifs, those would be two warp engines. This thing would be nestled into the top of the saucer and it would separate to go fight the battles.”

The producers rejected this solution and asked for the ship to separate between the saucer and the engineering hull. At first Probert could not work out how to make the engineering hull look right as a separate vessel. After playing around with several

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Probert later experimented with the idea of having even more parts of the ship separate off. The smaller parts of the saucer section would be lifeboats.
designs, he eventually hit on the idea of leaving part of the Saucer Section on the Stardrive section, which not only acted as a broad mounting point for the saucer, but made the Stardrive section look better.

**FINAL DETAILS**
Once this part of the design was finalised all Probert had to do was add a few finishing touches. He placed the Captain’s Yacht on the underside of the Saucer Section in the same area as what had been the dome-shaped sensor array on Kirk’s ship. He also added lots of windows in various shapes and sizes all over the hull, particularly towards the front of the Saucer Section where he reasoned the crew would want to look out and keep in touch with their environment. Probert even added the ship’s dedication plaque and various paintings to the walls of some of the interior sets.

One element that Probert meant to design for the Enterprise-D, but ended up omitting was landing gear. He had designed four landing pads on the underside of the saucer on the refit Enterprise for *STAR TREK: THE MOTION PICTURE*, so it was very much in his mind to do something similar for the Enterprise-D. “I started to do the landing gear,” says Probert, “but I was distracted away from it and that poor ship eventually paid the price!”
FILMING THE
NCC-1701-D
Putting the Enterprise-D on screen has involved not one but three different studio models, and two different CGI versions.

Back in 1987 there was only one realistic way to film a starship – you had to build a physical model. The contract to build the Enterprise-D was given to ILM, who made two different versions of the new ship – a six-foot model that would be used for most effects shots and a smaller two-foot model that would be used for the going to warp shots. The team that built the models was led by Greg Jein and Bill George.

Painting the model proved problematic. Andy Probert had designed the ship to have a blue/green tint that was reminiscent of the blue-ish colour created by 1960s VFX techniques. However, this idea created a problem. For VFX techniques to work the ship couldn’t be blue so the lighting was adjusted to make the ship more of a pearl grey colour. This is one of the reasons people have had such difficulty establishing the “correct” colour of the Enterprise-D: simply put, the studio model and the version you see on screen are different colours.

The original plan had been to create a handful of VFX shots that could be used again and again, much as they had been on the original STAR TREK series. However, STAR TREK: THE NEXT GENERATION had taken a new approach to their visual effects by using video technology rather than film. This was much faster and cheaper than had been expected and the producers loved the results. As a result the show was using more effects shots than had been planned. Working with the six-foot model was proving more than tricky. It took six people to lift the model off its mount, and it was so large that the camera couldn’t get far enough way to create moving shots. So at the beginning of TNG’s third season the producers took the decision to build a more manageable four-foot version of the model. Once again this was built by Greg Jein, who by now had left ILM. If you look closely at the new model you can see that it is subtly different to its predecessor.

When it came to making the movie STAR TREK GENERATIONS, it was obvious that the four-foot model wasn’t detailed enough to be used for big screen effects, so the original six-foot model was brought out of retirement. By now it was in need of refurbishment and ILM set about stripping it back and giving it a new coat of paint. Once again, the look of the ship changed subtly.

By the next time the Enterprise-D appeared on screen the VFX team had abandoned practical models in favour of CG. A basic CG version of a Galaxy-class starship appeared in STAR TREK: DEEP SPACE NINE. But for her final appearance, the Enterprise-D was given a major makeover. The last episode of STAR TREK: ENTERPRISE is actually set on the D, and by now the series was being filmed in HD. This meant that a new CG model had to be built for its final appearance to date.

▲ The original practical model of the U.S.S. ENTERPRISE NCC-1701-D in its original 1987 state (left) and after being refurbished and repainted for its appearance in STAR TREK GENERATIONS (right).
ON SCREEN

APPEARANCES

NCC-1701-D

TRIVIA

GALAXY-class starships like the ENTERPRISE-D appeared in every episode of STAR TREK: THE NEXT GENERATION, the film STAR TREK GENERATIONS, STAR TREK: DEEP SPACE NINE, STAR TREK: VOYAGER and STAR TREK ENTERPRISE. This means the only series they did not appear in is the original STAR TREK.

In the first season of TNG, the ship has a variety of senior engineers. This was because the producers felt the engines were unlikely to malfunction. They later decided that the role of Chief Engineer was too useful so they promoted Geordi La Forge.

In the original series ships are often shown travelling at speeds faster than Warp 10. For TNG the warp scale was redrawn so that Warp 10 was the speed of infinity, meaning that a ship travelling at that speed would literally occupy every point in the universe. However, in the fifth TNG episode ‘Where No One Has Gone Before’ the ship exceeds Warp 10. This was subsequently explained as actually being Warp 9.99999.

FEATURED TV SERIES:

STAR TREK: THE NEXT GENERATION

FIRST APPEARANCE:

‘Encounter at Farpoint’ (TNG)

MOVIE APPEARANCES:

STAR TREK GENERATIONS

FINAL APPEARANCE:

‘These Are The Voyages’ (ENT)

DESIGNED BY:

Andrew Probert

KEY APPEARANCES

‘Encounter at Farpoint’
The U.S.S. Enterprise NCC-1701-D was introduced in the first episode of STAR TREK: THE NEXT GENERATION, which opens with Captain Picard taking a tour of his new ship. At the time, it was the first major new STAR TREK ship to appear on television in nearly 20 years. That first TNG episode also demonstrated the Enterprise-D’s ability to separate in two.

‘The Best of Both Worlds’
The Enterprise-D takes on the Borg in one of the most important battles in the history of STAR TREK. Picard has been taken prisoner by the Borg. Riker is left in command of the ship and launches a desperate attack to rescue the captain and save the Earth.

STAR TREK GENERATIONS
The Enterprise-D made the transition to the big screen in the first STAR TREK: THE NEXT GENERATION movie, when it was destroyed near Veridian III. In the next movie it was replaced with the U.S.S. Enterprise NCC-1701-E.
COMING IN ISSUE 2

U.S.S. ENTERPRISE
NCC-1701 (2271)

Inside your magazine

- In-depth profile of the U.S.S. Enterprise NCC-1701 following its refit at the end of Kirk’s first five-year mission
- How the art department updated Matt Jefferies’ classic ship design
- Filming the Starship Enterprise for the big screen

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