

Ke-T10 "Fukuro" Multi-Role Shuttle

The new Ke-T10 "Fukuro" Multi-role Shuttle. It was designed to replace the [Ke-T8 "Kuma" Multi-role Shuttle](#) that had been in service since [YE 31](#). "Fukuro" translates to "Owl" in [Yamataigo](#) (邪馬台語), a creature that is revered for its majestic nature in [Yamataian](#) culture. It became available in [YE 43](#).



History and Background

The [Ke-T8 "Kuma" Multi-role Shuttle](#) served the [Star Army of Yamatai](#) well in its run that lasted from [YE 31](#) to [YE 43](#) with several variants in service. The decision to move on from the design came with the end of the [Kuvexian War](#) in early [YE 43](#). The new multi-role shuttle was to be more modular in its design so that it could be deployed in multiple configurations versus having several variants of the same design. This would prove to be more cost-effective and offer more on-demand diversity for mission roles.

About The Fukuro

The T-10 design includes two main compartments, the standard cockpit designed for the control and operation of the craft and the rear cabin which features a variety of swap-in, swap-out configurations that for the most part can be switched in twenty minutes or less when the shuttle is deployed from most [Star Army of Yamatai](#) ships and facilities.

The Fukuro has a sleek and streamlined profile for operation either in atmospheric environments or in space. The profile is also compatible with the use of stealth technologies used by the [Star Army of Yamatai](#). The shuttle's cost would come in higher than the [Ke-T8 "Kuma" Multi-role Shuttle](#) but the design increased modularity and it would be easier to refit and improve which would promote the longevity of

the class for years to come.

Summary of Key Features

The T10 “Fukuro” would:

- Have a standard cockpit compartment.
- Have a rear cabin that was completely modular in its design which allows for easy swap of configuration.
- Be reliable and easy to refit to promote longevity of the design.

Mission Specialization

Common configurations of the T10 “Fukuro”:

- Multi-ranged transport of personnel or cargo.
- Deployment of Small Power Armor Teams.
- Small-scale reconnaissance missions.
- Medical Evacuation.
- The Floating Office (VIP/Flag Officer transport).

Appearance

The Ke-T10 “Fukuro” has a majestic and sleek look to it. The frame is a “flying arrow” with angular fin-like stabilizers that dual function as landing supports beneath the frame of the craft. The tinted, polarized transparent [Zesuaium](#) windows follow the natural angles in the craft's design giving it a sporty “fast” appearance. The design of the craft has been praised for its aesthetic appeal which serves as an added bonus to its multi-role functional design.

Statistics and Performance

The Ke-T10 “Fukuro” design is built around performance and longevity, a design that shows promise for use by the [Star Army of Yamatai](#) for years to come.

General

General statistics for the Ke-T10 “Fukuro” Multi-role Shuttle design.

General Statistics for the Ke-T10	
Year Introduced	YE 43

General Statistics for the Ke-T10	
Class/Nomenclature	Ke-T10-1A
Alternative Nomenclature	None
Designers	Ketsurui Fleet Yards
Manufacturer	Ketsurui Fleet Yards
Fielded By	Star Army of Yamatai Only
Range	Theoretically Unlimited. Limited by Nutritional Requirements of The Passengers.
Maintenance Cycle	Every 5 Years.
Lifespan	Review Every 10 Years
Pricing	200,000 KS(Before Weapons)

Passengers

Crew: 02 operators are recommended, 01 are required. In a dire situation can be automated under [Compact Integrated Electronics System \(CIES\)](#).

Maximum Capacity: Varied depending on the configuration. About 12 people can fit aboard in an emergency, but the ship would be extremely cramped.

Dimensions

- Length: 6.20 meters (20.34 feet)
 - Aft Cabin: 4.00 meters (internal space)
- Width: 2.60 meters (8.53 feet)
 - Aft Cabin: 2.40 meters (widest point, internal space)
- Height: 2.20 meters (7.22 feet)
 - Aft Cabin: 2.00 meters (internal height)
- Weight: 39,000 kg

Propulsion and Range

Propulsion performance of the Ke-T10:

- Atmospheric: Cruise: 2,143 kmph (1,332 mph) Maximum: 6,125 kmph (3,806 mph)
- [Integrated CFS Array](#): 0.01c to 18,750c
- Hyperspace Fold Drive: 262,980c (0.50 ly/m)
- Compact [Multi-Stage Aether Drive](#): 0.375c.
- Range: Theoretically Unlimited.
- Lifespan: Review Every 10 Years.
- Refit Cycle: Every 5 Years or As Needed.

Damage Capacity

Damage Capacity Rating for the Ke-T10:

- [Damage Rating \(Version 3\)](#): Tier 8.

Inside The Fukuro

The inside of the Ke-T10 “Fukuro” Multi-role Shuttle is divided into two main compartments.

Layout of The Ke-T10 Shuttle	
Cockpit Compartment	Where the pilots sit. It includes two stations for the control and operation of the craft.
Forward Sub-Compartment	A sub-compartment where the Compact Integrated Electronics System (CIES) and other electronics are kept.
Aft Cabin	A cabin designed for multiple configurations.
Engineering Sub-Compartment	Access to the propulsion and other systems through an aft hatch and under the floor access.

The Cockpit

The cockpit is a dual seat arrangement. Both seats have [SPINE](#) as well as traditional interface systems for non-[Nekovalkyrja](#) pilots. Both stations have full access to the controls of the shuttle, but the pilots generally divide control of the shuttle's systems for better efficiency when a pilot and a co-pilot are present. The seats are comfortable. The cockpits include [volumetric](#) projection systems for readouts and HUD functions.

Aft Cabin

The Aft Cabin can be given multiple configurations depending on the mission profile given to the Shuttle. It includes a standard airlock on the port side of the shuttle that is located directly behind the cockpit for standard entry and exit that includes an extendable ramp egress for easy loading and unloading. Additionally, the large section of the hull that features the [Star Army Hinomaru](#) raises for the launch of power armor and for ease of access when changing the cabin's configurations. There are overhead lockers for stowing gear as well as modular floor panels for storage options underfoot.

Some common configurations (Can be swapped out in approx. twenty minutes):

- Cargo Configuration - Straps and secure systems to transport [Small Containers](#) with various [Star Army Equipment](#).
- Transport Configuration - Generally includes three rows of two seats, [comfort module](#) or some cases it can even include bunk beds.
- Medical Evacuation - This includes either stretchers or four horizontal configuration [Hemosynthetic Reconstruction Tube](#) and various medical equipment.

- Small Team Deployment - This includes Power Armor Racks and generally room for five [Ke-M2-4 Series "Mindy" Armor](#).
- VIP Configuration - A floating office for Flag Officers, it generally includes a desk with [SPINE](#), a [Star Army Sofa, Type 39](#) and sometimes a [Comfort Bed](#) for long-haul trips.

Subsystems

The Ke-T10 "Fukuro" Multi-Role Shuttle includes the following Sybsystems.

Hull and Integrate Hull Systems

The hull is composed of a [Durandium Alloy](#) frame with interlocking [Yamataium](#) plating. Interior compartments are coated in [Yarvex](#).

- [Xiulurium](#) coating can be included on some models for stealth capability.

Integrated Hull Systems

The Ke-T10 "Fukuro" Multi-role Shuttle is equipped with:

- [Integrated CFS Array](#), which provides propulsion in CDD, defense and stealth operation.
- [Nodal Liquid Conduit System](#), a system which uses the femtomechanical nature of [Hemosynthetics](#). Assists with damage control and other functions. When the shuttle is landed, it can be hooked into the system of its host vessel or space station for greater efficiency for this system.
 - Advanced Damage Control - [Ketsurui Fleet Yards](#) brought in [Hemosynthologist, Shinichiro Tomoko](#) onto the design team to testbed a new capillary system for the interlocking [Yamataium](#) hull. Standardly [Star Army of Yamatai](#) ships have capillaries which deliver [hemosynth](#) to interlocking [Yamataium](#) plating which boosts the annealing properties of [Yamataium](#) . In the "Fukuro" design the system has a tweak where the femtomachinery components are programmed to respond to osmotic conditions. A breach or damage to the armor creates a concentration gradient, which the fetomachinery is triggered to increase replication and flow along the gradient towards the damaged areas.

Power Systems

Power on the Ke-T10 "Fukurui" Multi-role Shuttle is provided by two small [aether generators](#). An integrated capacitor system includes up to three days of emergency power as a backup system. There are also interfaces for portable aether generators in the event it is required.

Propulsion Systems

The Ke-T10 “Furkuro” Multi-role Shuttle is equipped with a compact [Multi-Stage Aether Drive](#) for sublight applications. It is also equipped with an [Multi-Stage Aether Drive](#), and uses the [Integrated CFS Array](#) for [Continuum Distortion Drive](#) propulsion. The [Yugumo Corporation](#) contributed the compact [Yumeoibito Hyperspace Fold Drive](#). It has Maneuvering Thrusters ([ion thrusters](#)) are used primarily attitude adjustment, docking and station keeping.

This shuttle uses a basic anti-gravity engine for atmospheric use.

Electronics System

The Ke-T10 “Fukuro” Multi-role Shuttle utilizes the [Compact Integrated Electronics System \(CIES\)](#). This standardly includes all [Star Army Standard Communications Array](#), Sensors and other basic electronics systems.

Life Support and Environmental

The Ke-T10 includes [Star Army Standard Life Support Systems](#).

Emergency Systems

The Ke-T10 “Furkuro” Multi-role Shuttle is equipped with emergency systems. The cockpit and rear cabin compartments can be sealed off from each other using a set of blast shutters. The craft is equipped with an underside inflatable raft system for emergency water landings.

Weapons

These weapons are commonly included in the design of this shuttle.

- 1 Forward-Facing [Ke-T10-W4300 Aether Burst Cannon](#), Tier 9 “Heavy Anti-Mecha”.
- [Integrated CFS Array - Projected Energy Beams](#), Tier 6 “Heavy Anti-Armor”. ¹⁾
- Dorsal Integrated [Ke-T10-W4301 "Namikaze" Missile Launcher](#), Tier 4 “Medium Anti-Armor”.

OOC Notes

[Wes](#) created this article on 2017/06/16 15:16. [Andrew](#) started worked on it 01/21/2021.

Approved by [Syaoran](#) on 1/27/2021

The illustration is a commissioned artwork by Adam Kop.

Star Army Logistics	
Supply Classification	Class B - SMALL CRAFT
Products & Items Database	
Product Categories	small craft
Product Name	"Fukuro" Multi-Role Shuttle
Nomenclature	Ke-T10-1A
Manufacturer	Ketsurui Fleet Yards
Year Released	YE 43
Price (KS)	200,000.00 KS
Mass (kg)	39,000 kg

¹⁾
Per the [Integrated CFS Array](#) article, Beams are The DR of the Shuttle minus 2DR = Tier 6

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Last update: **2023/12/21 01:02**

