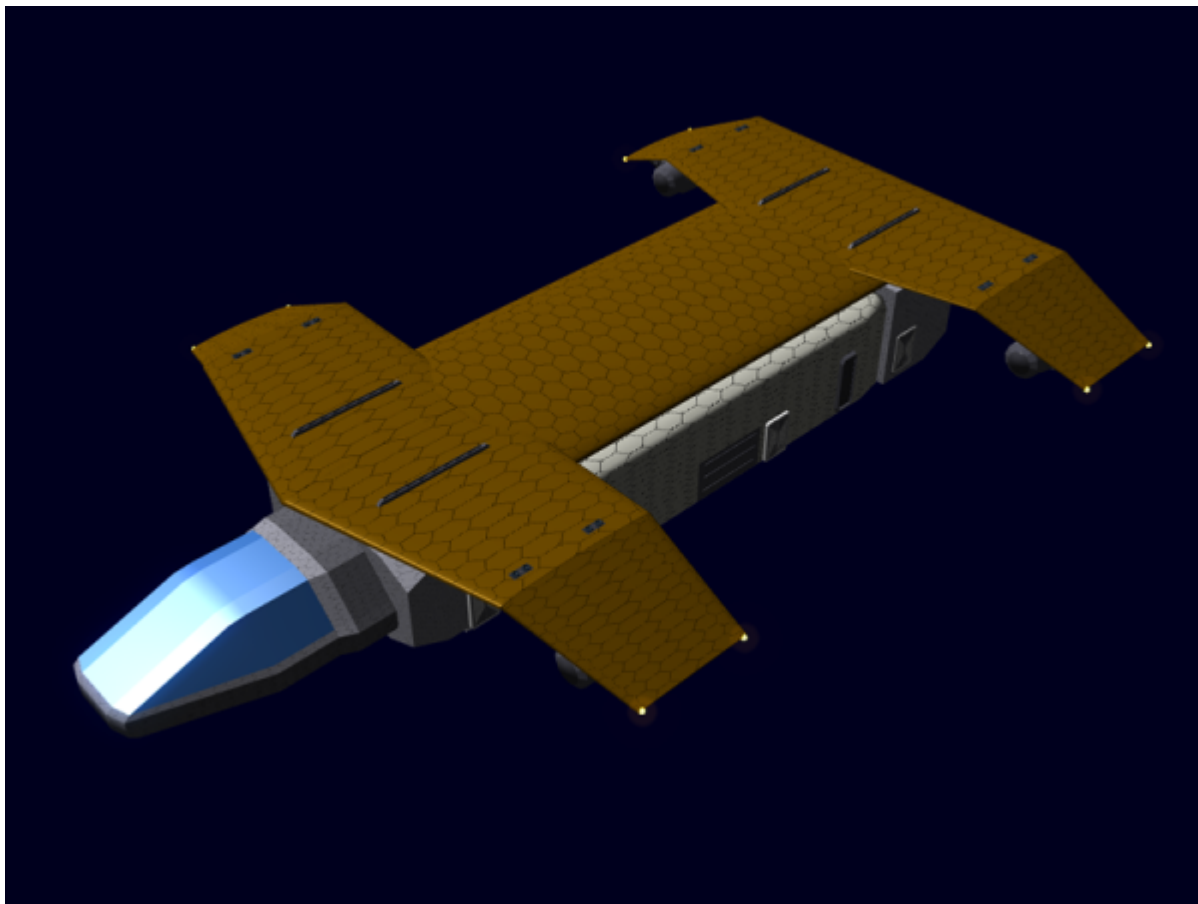


# HS-AS3-7A Âdortin'sa Avuoten (Thunder Shuttle)

The Avuoten (Thunder) Shuttle is a heavy load shuttle developed for use by the [Poku Saeruo Degonjo](#). The 7A went into mass production in [756 CY](#), [YE 37](#).

## About the HS-AS-3-7A

The Avuoten class shuttle is designed for move large quantities. They were originally created for offloading the Arks. Its name came from the loud bass rumble their engines during launch and landing. The sound is caused by the interaction of the engine harmonics. The shuttle typically has a four person crew, although it is possible for single operator to fly it. The cargo module is detachable, and can be configured depending on the specific task. It is a dual wing design, and is capable of faster-than-light travel for limited distances. The 7A is the newest version of this venerable design.



The Avuoten-Class should be used with caution in highly urbanized regions. This is because the engine harmonics can affect the windows in structures, and cause them to shatter. For this reason an Avuoten should not be within 50 meters of a structure with conventional glass windows.

The Avuoten-Class was designed for long in system hauling. The forward module is equipped with four bunks, food processors, and a small bathroom/shower. While spartan they can serve the crew for up to 30 days.

<b>Âdortin'sa Avuoten (Thunder Shuttle)</b>	
Nomenclature:	HS-AS3-7A
Type:	Vehicle
Class:	Aerospace
<b>General</b>	
Designers:	<a href="#">Otâmovi Wiy Jael</a>
Manufacturer:	<a href="#">Otâmovi Wiy Jael</a>
Price:	40,000 OW
<b>Dimensions</b>	
Length:	8 m (26.24 feet)
Width Wingspan:	31 m (101.68 feet)
Height:	7 m (22.96 feet)
<b>Performance</b>	
Min speed:	0
Cruise speed: (Atmos)	600 kmh (360 mph)
Maximum speed:	900 kmh (520 mph)
Cruise speed (STL)	.17c ( 31,667 km/s) .17c ( 50,964 miles/s)
Maximum speed:	.2c (~59,958 km/s) .2c (~37,256 miles/s)
<b>Occupancy</b>	
Crew:	6 (1 can operate in emergency)
Passengers	Depends on module
<b>Systems</b>	
Propulsion:	4 <a href="#">Anoka Udano Kutaqme</a> 24 <a href="#">Gean Vymasa</a>
Power	<a href="#">Sumanâ-a Tyokanorjopa</a>
Control	<a href="#">Jodau Fiqorka</a>
Environmental	<a href="#">Damira Norjopa</a>
Sensors	<a href="#">HS-AF1-E720xx Tin'sa Mâbor'a</a>

## History

The Avuoten design comes from before the *Norka (The Exodus)*. They were typically used for transferring cargo and passengers from a ship in orbit to the surface of a planet. Each of the *Wunyaka Vonai (Ark)*'s were equipped with 24.

With the colonization of worlds now underway, production of newer Avuoten-Class craft has begun. With upgrades to the sub-systems.

## Appearance

The Avuoten design is a very utilitarian design. It has atmospheric streamlining because it must. It has two wings which provide atmospheric flight control, though technically the craft can flight without them. But the double wing offers a smoother flight profile. There are thrusters mounted at key points along the hull. These are only used during zero-g operation.

There are four hatches on the exterior of the body, two on the forward module, and the other two are on the aft module. The cargo module has separate doors mounted just aft of the loading door.

The shuttle and the cargo module are each equipped with standard landing gear used by clan ships.

The flight control area is a spacious cockpit that protrudes from the forward module. The upper module is transparent which gives the operation crew maximum visibility.

## General

Class: Aerospace Nomenclature: HS-AS3-7A Type: Shuttle Designers: [Otâmovi Wiy Jael \(Silver Moon Sect\)](#)  
Manufacturer: [Otâmovi Wiy Jael \(Silver Moon Sect\)](#) Cost: 40,000 OW (Gold)

## Interior

The actual interior of the shuttle consists of the flight deck, the forward module and the aft module.

## Flight Deck

The flight deck is equipped with three [Buvoli Vyma'te \(Acceleration Chair\)](#) with configured [Makoa Kâbo'ka \(Work Console\)](#) and three retractable [Buvoli Vyma'te \(Acceleration Chair\)](#) for extra personnel. The seat arrangement is two in the front, one in the center, and the three retractables are in the rear.

While each of the stations are configured for a specific function, as they are programmable. Any of them can assume any role.

The vehicle sensors are installed under the deck and access panels in the floor allow maintenance and minor repairs.

## Aft Module

The aft module is where the primary system equipment is located. It can be accessed by hatches on either side of the module and by an access way in the cargo unit. It is two decks high, and walkways and ladders are present to allow for movement in the upper section.

## Cargo Module HS-AS3-7A-757/0x

The Avuoten is mission configurable by how the Cargo module is configured.

### AS3-7A-757/00 Max Cargo

This module is intended for oversize or maximum cargo. The entire interior is open for storage.

### AS-7A-767/01 Passenger

This module is split into two levels, the upper level is where the passengers travel. The lower level is cargo, and provided the amenities the passengers need.

## Systems

The Avuoten shuttle is equipped with the following components for its systems.

### HS-AF3-F756/00 Chassis

The chassis is built on a frame of *Mâqirây (Bound Metal)* beams and covered in a 3 cm layer for the surface. The windows are constructed of *Mâqitua'tomin (Transparent Light Metal)*.

### HS-AF3-C756/00 Control

The heart of the control systems is a *Jodau Fiqorka (Module Brain)*. It controls all aspects of the craft. There is a set of flight controls in the forward seat for the operator. There is a *Iginâ Yoqa (Neural Link)* port in the operator's seat.

### HS-AF3-R756/00 Communications

The craft is equipped with all of the available *Ta'te Goly Norjopa (Far Talking Systems)* systems.

### HS-AF3-P756/0x Propulsion

The Avuoten uses two systems for its propulsion requirements.

## **HS-AF3-P756/00 Anoka Udano Kutaqme (Harmonic Gravity Drive)**

The Avuoten uses four [Anoka Udano Kutaqme](#) for its primary propulsion needs.

## **HS-HS-AF3-P756/01 Gean Vymasa**

The Avuoten being a spacecraft is also equipped with 24 [Gean Vymasa \(Ion Thruster\)](#) for attitude control.

## **HS-AF3-G756/00 Power**

The Avuoten is powered by a [Sumanâ-a Tyokanorjopa \(Fusion Reactors\)](#) / [Gean Norjopa \(Generator\)](#). It has fuel to run for sixty days.

## **HS-AF3-E756/00 Environmental**

The Avuoten is fitted with the all of the [Damira Norjopa \(Environmental Systems\)](#). This provides a safe environment for the operators and any passengers.

## **HS-AF3-E756/01 Sensors**

The Avuoten has the [HS-AF1-E720xx Tin'sa Mâbor'a \(Small craft Sensors\)](#) which supplies all of the telemetry needs of the craft.

## **HS-AF3-S756/0X Shields**

### **HS-AF3-S756/00 Defense Shield**

The Avuoten is equipped with a [Anoka Wotanu'pa \(Defense Shield\)](#) to protect it from the myriad hazards the craft can encounter.

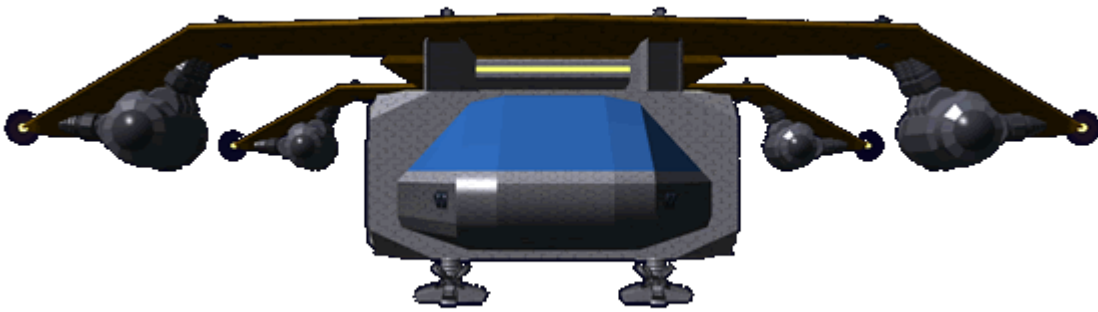
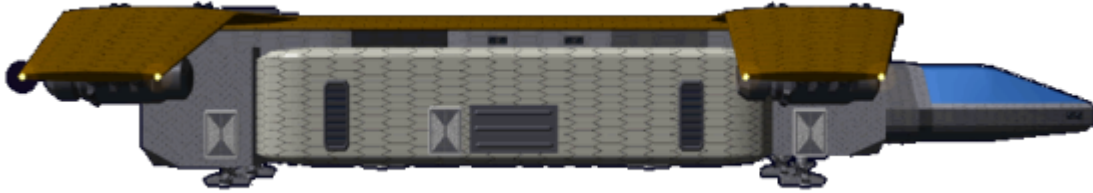
### **HS-AF3-S756/01 Stealth Shield (Optional)**

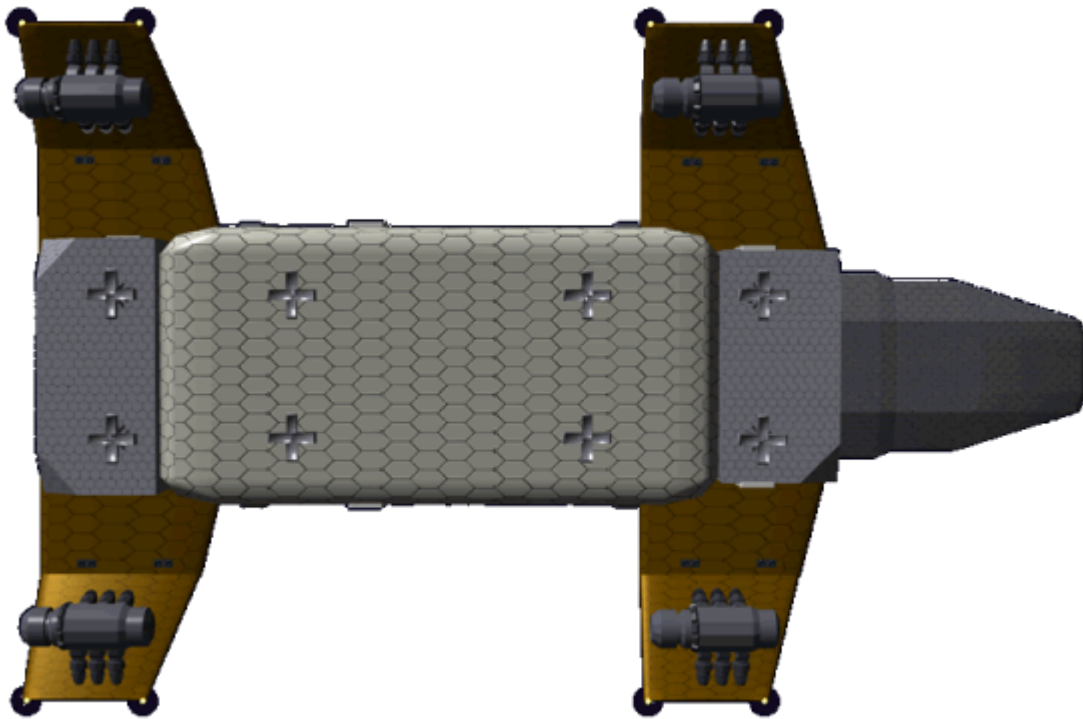
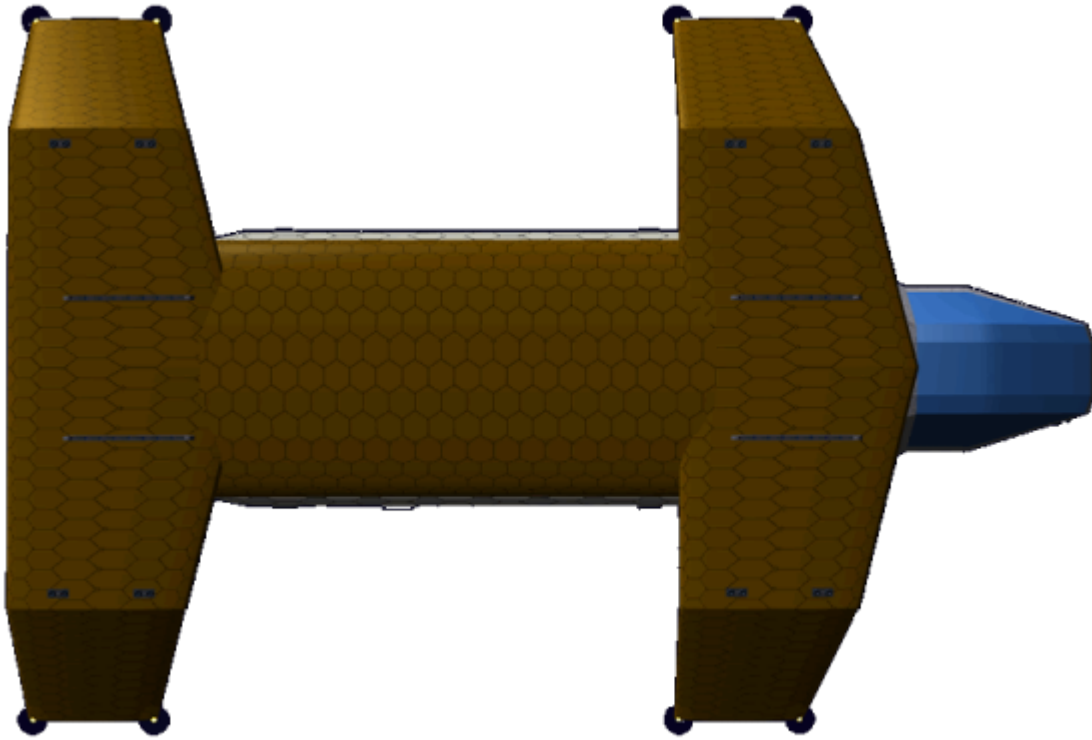
The Avuoten can be fitted with a [Anoka Degon'te \(Stealth Shield\)](#) for special missions. Only if the shuttle belongs to the [Wotanu Abokatinka Poku \(Clan Defense Fleet\)](#).

### **HS-AF3-S756/02 Atmospheric Shields**

All hatches on the Avuoten are fitted with [Anoka Niuwuny'te \(Atmospheric Shield\)](#).

## Additional Images





## OOO Notes

- Article by [Nashoba](#).

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