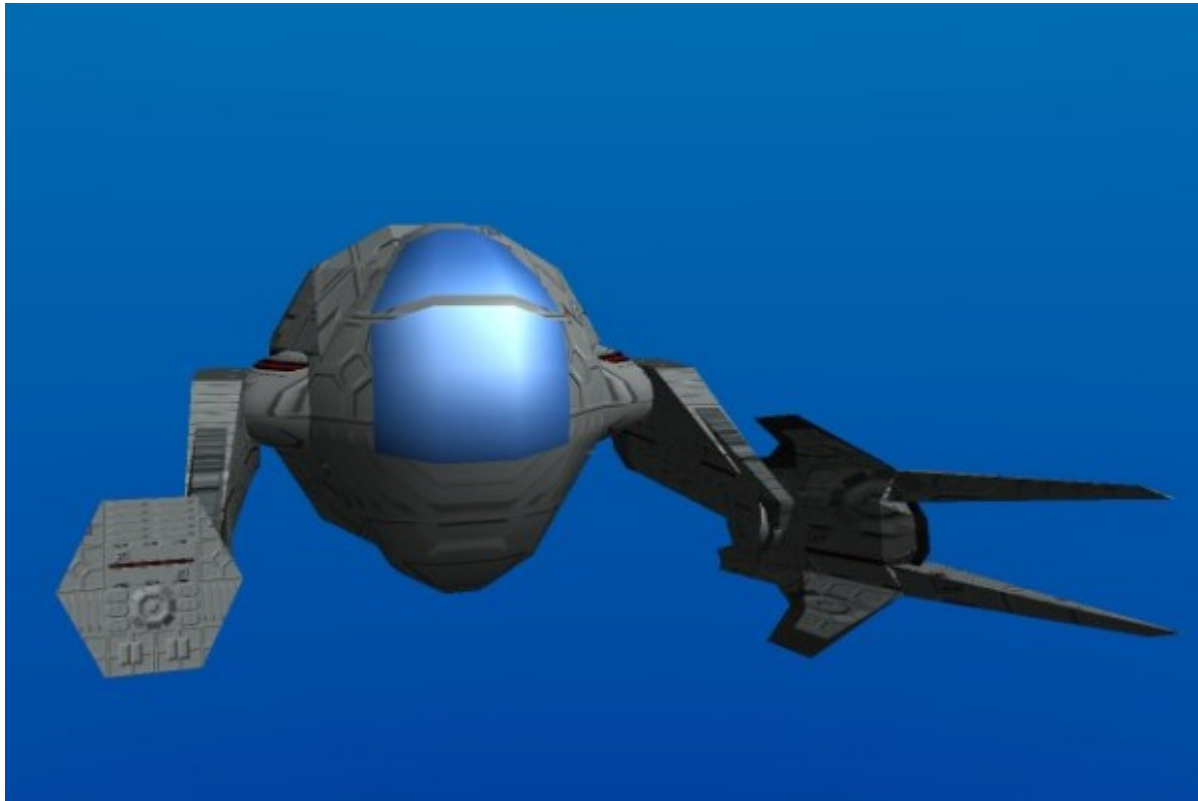# Mark I Construction Drone

Created for the sole purposes of speeding up construction at shipyards and constructing orbital facilities, the Mark I is the first actually space capable drone due to the recent creation of the Kesslinger Intelligent Operating System.
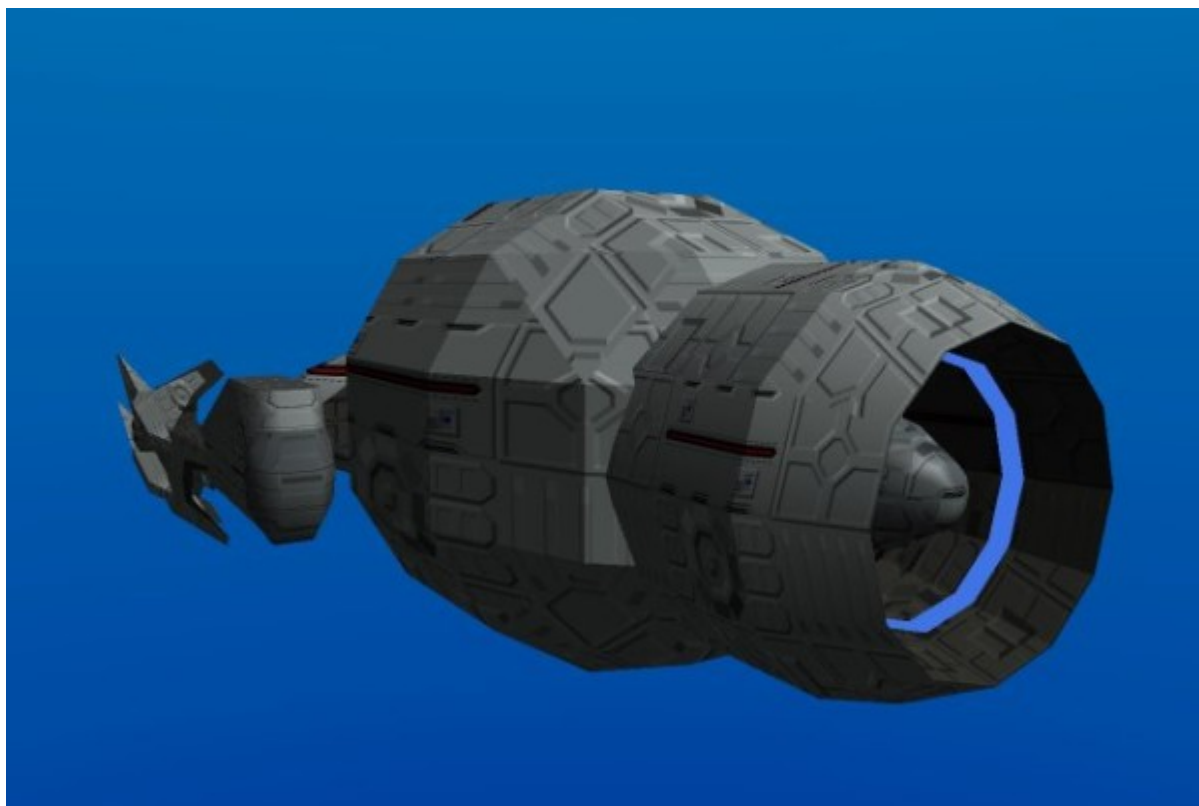

About the Ship

Key Features

- Uses the DVIM system of the KIOS
- Cheaply and Quickly built to replace any losses.

Mission Specialization

- Construction in harsh, Zero-G environments.

Appearance

History and Background

With the creation of the Kesslinger Intelligent Operating System, Kaiserlich F&E could finally create a more advanced series of androids and robots. Their first objective was solving the problem of space construction without a shipyard. Space was the most dangerous environment around for construction workers with as many as 100 dying each year when a construction project was going on. Because of this, the Abwehran people had only been constructing huge pieces of stations at shipyards and then towing them into place. Such methods were decidedly more expensive than other methods due to the distance between the shipyards and other locations in Jaspis. This method was also impossible to use in other systems because of the lack of shipyards in the new colonies.

With design plans for a new mobile constructor ship in the works that was calling for millions of spacers, Kaiserlich F&E decided that the Mark One Construction Drone series would be the best method of improving both the design of the ship and safety of construction workers in space.

Statistics and Performance

General

Class: Ay-J1-1a Type: Construction Drone Designers: Kaiserlich F&E Manufacturer: Abwehran Imperial Yards Production: Mass-Production Fielded by: Abwehran Imperial Yards

Passengers

Crew: One Drone Virtual Intelligence Model Maximum Capacity: N/A

Dimensions

Length: 4 meters (13 feet) Width: 2 meters (6.5 feet) Height: 1.3 meters (4.2 feet)

Propulsion and Range

Sublight Engines: 0.001 c Range: One Abwehran Day Lifespan: One Abwehran Year Refit Cycle: Every Week

Inside the Ship

There is no interior for individuals to enter.

Ship Systems

Armored Hull and Hull Integrated Systems

The Mark One Construction Drone uses a standard titanium hull structure with a civilian-based frame.

Computers and Electronics

Using a CU-23 computer system in conjunction with a KIOS's Drone Virtual Intelligence Model (DVIM), the Mark One is controlled from a hive minded Program-based Artificial Intelligence Model (PAIM) of either a Shipyard or space vessel.

Propulsion

The Mark One runs on a single Civilian Fusion Engine.

Construction Tools

Magnetic Coupler

A magnetic grip used to grab metallic components and move them through out a construction site. This device is located on the drone's right arm.

Molecular Wielder

A tool attached to the drone's left arm, the molecular wielder is a tool used to perform molecular wielding in order to connect pieces together.

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Last update: **2023/12/21 05:25**