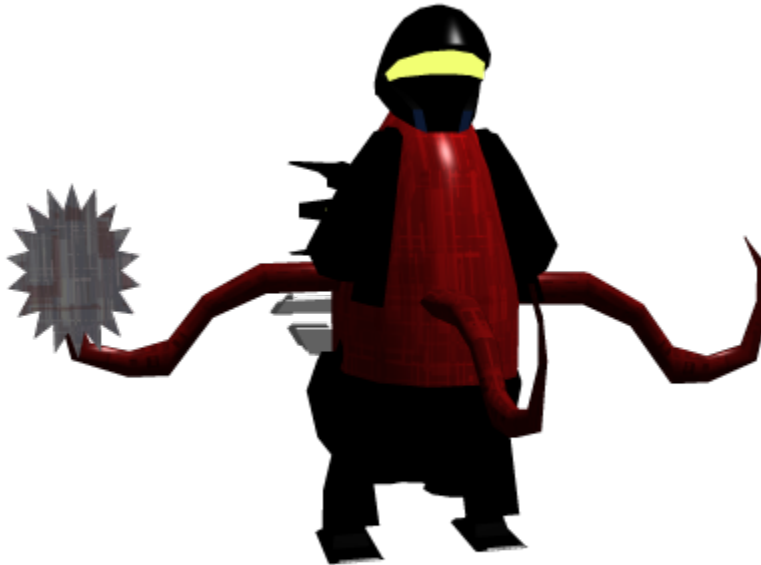


# Repair Drones "Apparition"

The hover-capable "Apparition" repair drone was created to facilitate repairs in the [New Dusk Conclave's](#) military and civilian corporations, such as [Black Wing Enterprises](#), the [Mining Guild](#), and [Noval Heavy Industries](#). It was created by the [Department of Engineering](#), and went into operation in late YE 42.



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## Overview

The repair drone, with an overall height of 1.09 meters in rest mode, undergoes a transformative shift when activated for its crucial duties. Upon rest mode activation, it extends a pair of landing legs, augmenting its stature by an additional 0.09 meters. These legs provide stability and support, ensuring precision and efficiency in its operations.

However, it's not just the legs that define its functionality; the drone's hallmark feature lies in its domed head, a technological marvel designed for versatility and adaptability. This domed head is mounted on an extendable neck, capable of raising to provide an elevated viewpoint. This pivotal movement unlocks a pivotal capability: a 360-degree panoramic view of its surroundings. This panoramic perspective empowers the drone with unparalleled situational awareness, enabling it to assess and strategize with precision.

Within this dome resides a sophisticated array of specialized optics, granting the drone an extraordinary sensory capacity. These optics are engineered to provide the drone with two critical abilities: UV vision

and X-ray penetration. With UV vision, the drone can perceive details beyond the most visual spectrum, detecting subtle signs of wear, stress, or damage invisible to the naked eye. Meanwhile, X-ray penetration allows the drone to delve beneath surfaces, uncovering hidden structural issues or faults that might otherwise remain obscured.

This fusion of advanced optics and dynamic mobility equips the repair drone with a comprehensive understanding of its environment. By pinpointing areas of concern through its enhanced vision capabilities, the drone can efficiently prioritize its interventions, focusing its efforts precisely where they are needed most. In essence, the drone becomes not just a tool for repair, but a proactive agent of maintenance, detecting and addressing issues before they escalate, thereby ensuring the longevity and resilience of the systems it serves.

## Core Systems

The “Apparition” stands at the forefront of artificial intelligence innovation, boasting a state-of-the-art computer mind that transcends conventional limitations. This sophisticated neural architecture endows the Apparition with a remarkable ability: the capacity to comprehend and execute both verbal and nonverbal directives with unparalleled precision and efficiency.

At the core of its cognitive prowess lies a complex network of neural networks, meticulously engineered to mimic the intricacies of human cognition. This neural matrix empowers the Apparition with an intuitive understanding of language, enabling it to seamlessly decipher and interpret verbal commands in any dialect or tongue spoken to it. Whether it's [Yamataigo \(邪馬台語\)](#), [Trade \(language\)](#), [Seraphim.](#), or any other language known, the Apparition effortlessly grasps the nuances of communication, ensuring seamless interaction with users across linguistic divides.

Moreover, the Apparition's cognitive capabilities extend beyond mere verbal communication, encompassing a nuanced comprehension of nonverbal cues and gestures. Through advanced sensor arrays and machine learning algorithms, the Apparition adeptly deciphers subtle facial expressions, body language, and gestures, intuitively grasping the intent and context behind each nonverbal cue. This holistic understanding enables the Apparition to respond with precision and empathy, fostering a natural and intuitive rapport with its human counterparts.

The versatility of the Apparition's cognitive architecture transcends traditional boundaries, enabling it to adapt and evolve in response to diverse environments and scenarios. Whether it's navigating complex instructions in a bustling urban setting or deciphering cryptic gestures in a remote wilderness, the Apparition's computational prowess remains unwavering, ensuring optimal performance in any context.

In essence, the Apparition emerges as more than just a mere machine; it embodies the pinnacle of artificial intelligence innovation, seamlessly blending human-like intuition with computational precision. With its unparalleled linguistic fluency and intuitive grasp of nonverbal communication, the Apparition heralds a new era of human-machine interaction, where barriers of language and culture dissolve, paving the way for seamless collaboration and cooperation on a global scale.

## Power

The utilization of **Plasma Power Cells** represents a cutting-edge advancement in the field of drone technology, elevating the capabilities of the drone to unprecedented heights. These specialized power sources serve as the lifeblood of the drone, fueling its myriad systems while simultaneously serving as the driving force behind its propulsion mechanisms.

At the heart of each Plasma Power Cell lies a fusion of advanced plasma technology and innovative power management systems. These cells harness the immense energy potential of plasma, a superheated state of matter characterized by its ionized particles and formidable energy density. Through meticulous engineering and precision control, the Plasma Power Cells convert this raw energy into a versatile power source, capable of meeting the diverse needs of the drone's sophisticated systems.

One of the primary functions of these Plasma Power Cells is to provide sustained power to the drone's onboard systems, ensuring uninterrupted operation and optimal performance in a variety of environments and conditions. From computational tasks and sensor operations to communication protocols and data processing, the Plasma Power Cells serve as the backbone of the drone's functionality, enabling it to execute its assigned tasks with efficiency and precision.

However, the ingenuity of the Plasma Power Cells extends beyond mere power provision; they also serve a dual role as the propulsion source for the drone. Through a series of innovative propulsion systems, the Plasma Power Cells harness the energy of ionized plasma to generate thrust, propelling the drone through the air with remarkable agility and speed. This fusion of power and propulsion capabilities imbues the drone with unparalleled maneuverability, allowing it to navigate complex terrain, evade obstacles, and execute precise aerial maneuvers with ease.

Furthermore, the use of plasma propulsion confers additional benefits, including reduced environmental impact and enhanced operational endurance. Compared to conventional propulsion systems, plasma-based propulsion offers greater efficiency and sustainability, minimizing resource consumption and maximizing operational range. This eco-friendly approach aligns with modern principles of environmental stewardship, ensuring that the drone can operate effectively while minimizing its ecological footprint.

In essence, the integration of Plasma Power Cells represents a paradigm shift in drone technology, unlocking new levels of performance, versatility, and sustainability. By harnessing the power of plasma for both energy provision and propulsion, the drone emerges as a symbol of innovation and efficiency, poised to revolutionize industries ranging from surveillance and reconnaissance to logistics and transportation.

## Propulsion

The deployment of drones in the vast expanse of space presents unique challenges that demand innovative solutions. To navigate the weightless void where traditional propulsion methods falter, these drones are outfitted with a scaled-down iteration of the Helix Plasma Engine, a marvel of engineering that harnesses the power of ionized plasma to propel the drone through the abyss of space with unparalleled efficiency and precision.

Central to the propulsion system is the main nozzle of the Helix Plasma Engine, strategically positioned at the base of the drone. This primary nozzle serves as the focal point for the expulsion of ionized plasma, generating the thrust necessary to propel the drone forward through the vacuum of space. The sheer power and precision of this primary nozzle allow the drone to traverse vast distances with remarkable speed and agility, navigating the boundless reaches of space with ease.

In addition to the main nozzle, the drone is equipped with a series of smaller nozzles arrayed around its back and sides. These auxiliary nozzles play a crucial role in managing the drone's orientation and maneuverability in the weightless environment of space. By strategically modulating the thrust generated by these auxiliary nozzles, the drone can execute complex maneuvers, adjust its trajectory, and maintain stable orientation, ensuring precise navigation through the void.

However, the versatility of these drones extends beyond the vacuum of space; they are equally adept at operating within Earth's atmosphere. To compensate for the effects of gravity and facilitate efficient propulsion in a terrestrial environment, the drones are equipped with a sophisticated anti-gravity device. This device counteracts the gravitational pull on the drone, effectively neutralizing its weight and enabling it to move with agility and grace through the air.

In atmospheric conditions, the drone seamlessly integrates its anti-gravity device with the Helix Plasma Engine, leveraging both technologies in tandem to achieve optimal performance. By harnessing the power of the Helix Plasma Engine in conjunction with the anti-gravity device, the drone can navigate the skies with unparalleled efficiency, executing precise maneuvers and maintaining stable flight trajectories with ease.

In essence, the integration of the Helix Plasma Engine and anti-gravity technology represents a convergence of cutting-edge propulsion systems, enabling these drones to transcend the constraints of gravity and navigate with unparalleled precision and efficiency in both the vast expanse of space and the boundless skies of Earth. Whether traversing the depths of space or soaring through the atmosphere, these drones stand as a testament to human ingenuity and innovation, pushing the boundaries of exploration and discovery to new heights.

#### List of parts

- [Helix Plasma Engines](#)
- Anti-gravity device

## Primary Systems

The Apparition emerges as a beacon of innovation in the realm of ship repair, embodying a fusion of cutting-edge technology and unparalleled utility. Designed with a singular focus on the intricate needs of starship maintenance, it stands ready to undertake a myriad of repair and maintenance tasks with precision and efficiency.

At the heart of the Apparition's functionality lies a comprehensive suite of specialized tools, meticulously integrated within its sleek and streamlined form. These tools, strategically housed within the drone itself and attached to its sides, represent a diverse arsenal tailored specifically for the rigors of starship repair.

From precision cutting instruments and welding apparatus to intricate diagnostic sensors and manipulator arms, each tool is meticulously crafted to address the unique challenges posed by starship maintenance.


The versatility of the Apparition's toolset is a testament to its adaptability in the face of diverse repair scenarios. Whether tasked with patching ruptured hulls, replacing damaged components, or conducting intricate system diagnostics, the Apparition's arsenal of tools is more than capable of rising to the occasion. Equipped with cutting-edge materials and advanced engineering, these tools possess the precision and durability necessary to withstand the harsh conditions of deep space and the demanding rigors of starship repair.

Moreover, the Apparition's tools are specifically engineered to interface seamlessly with a wide range of starship hull materials. Whether faced with reinforced durasteel, composite alloys, or exotic plasteel composites, the Apparition's tools exhibit the versatility and adaptability needed to cut, shape, and manipulate these materials with precision and finesse. This ensures that the drone can perform its repair tasks effectively across a diverse spectrum of starship designs and configurations, from sleek interstellar cruisers to rugged freighters.

However, the true hallmark of the Apparition lies not just in its expansive array of tools, but in its capacity for autonomous decision-making and adaptive problem-solving. Empowered by advanced artificial intelligence algorithms and sensory systems, the drone is capable of analyzing complex repair scenarios in real-time, devising optimal strategies, and executing precise maneuvers with unmatched efficiency. This autonomy not only enhances the speed and accuracy of repair operations but also allows the drone to adapt dynamically to unforeseen challenges, ensuring minimal downtime and maximizing the operational readiness of starship fleets.

In essence, the Apparition stands as a paragon of innovation in the realm of starship maintenance, combining state-of-the-art technology with unparalleled utility to redefine the standards of repair excellence in the cosmos. Whether tasked with patching hull breaches, replacing malfunctioning components, or conducting routine maintenance checks, the Apparition's unwavering dedication to precision and efficiency ensures that starships remain operational and spacefaring civilizations continue to thrive amidst the vast expanse of the cosmos.

## Inner Compartments

- [Fire Extinguisher](#) 
- Small Saw
- Utility Arms
- Welding Devices

## Outside

- Re-purposed [Plasma Cutter/Torch](#) to cut through any metallic debris that might need to be removed.

## Auxiliary Functions

Early on, the drones were covered in [Durandium Alloy](#). With recent updates to the [NDC](#)'s materials technology, [Madite](#) has been used on many of the latest drone models.

## OOC Notes

[Charaa](#) created this article on 2020/06/26 15:00.

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[Approval thread](#)

<sup>1)</sup>

Landing/ Power down mode

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