

M9 Motive

Released for sale to the masses in [YE 45](#), the M9 Motive is an industrial exoskeleton developed for the industrious at heart. The Motive was designed for industrial, mining, salvage, and construction use cases.



History

Origin Industries had closely observing the industrial, mining, salvage, and construction sectors and noticed a gap in the market for a product that could enhance the physical capabilities of workers in these fields. While military-grade power armor was available, it was often overkill for these applications, not to mention prohibitively expensive for many companies and independent workers to purchase the cheapest options of the Impulse at scale.

Due to their experience with the Impulse Power Armor, it was decided the best course was to simply the base model. Getting rid of features most within the industries do not use, the design team could focus on optimizing the simplified exoskeleton to provide exactly what their customers were looking for: to

enhance their job performance.

The development process was not without its challenges. The first prototypes were too heavy and cumbersome, making them impractical for many of the intended use cases. There were also issues with the power supply, with early versions not providing enough power for a full day's work.

Another challenge was ensuring that the exoskeleton could be used by a wide range of body types and sizes. This required the development of an adjustable frame and a control system that could adapt to the user's movements.The end result was the M9 Motive, an industrial exoskeleton that provides enhanced strength and endurance, while being simple to operate and maintain.

About the Armor

The Motive Exoskeleton is designed to enhance the abilities of miners, construction workers, and anyone else that need raw power for the job.

Statistics & Performance

General Statistics for the M9 Motive	
Year Introduced	YE 45
Nomenclature	OI-M9-1A
Alternative Nomenclature	M9 Motive
Designers	Origin Industries
Manufacturer	Origin Industries.
Fielded By	Origin Industries, Independents, various.
Range	
Maintenance Cycle	Every 3 years, depending on intensity of use
Lifespan	40 years
Pricing	3,760 KS

Appearance

The M9 Motive looks like an incomplete power armor commonly found in the Kikyo Sector. Titanium guards on the chest, shoulders, arms, and legs provide basic protection for its users. But there are obvious gaps in this protection that are a reminder that the Motive is an industrial exoskeleton, not a power armor.

Advantages

- Provide protection from common industrial hazards
- Provide enhanced strength and endurance to the user
- Utilize Heavy Equipment attachments (in a power armor format)
- Can lift up to 2,000 lbs

Disadvantages

- Less protection than a power armor
- Lack of integral environmental systems
- Cannot enhance the strength of strength-augmented users beyond their augmentations

Damage Capacity Stats

See [Damage Rating \(Version 3\)](#) for a guide to damage ratings to include.

DRv3 Tier: 3 (Heavy Personnel)

Getting In and Out

The Motive is stored standing up. To enter, one simply moves the chest guard up and the thigh guards to the side. The individual then simply steps into the legs, inserts their arm into the motive's and slides down the chest guard into place. Donning the helmet is the final step.

To get out of the Motive, the opposite is done.

Controlling the Armor

A simple exoskeleton, the user of the Motive simply moves their body and the exoskeleton goes along. For users that have a neural control system or a digital mind, the exoskeleton becomes the “main” body of the user. The latter allows for finer control of the system, while the former ensures greater compatibility with species found in the sector.

Systems

The Motive consists of a simplified [Impulse Powered Armor](#) stamped Titanium frame with heavy servos built in. While the Motive does not offer the same level of protection seen with standard power armor, it does offer the user greater strength.

Armor

Stamped Titanium is used to provide protection to the user. While thin by Power Armor standards, it and the cushion liner on the interior of the guards protects from common falls/impacts.

Computer Systems

The Motive makes use of a Digital Control Module with two modes: analog and digital. In analog mode, the DCM's primary purpose is to keep the user upright and compensate for movement of the user's limbs (thanks to pressure sensors). The speed of the Motive depends on how hard the user pushes these sensors.

The digital mode is designed for those with a neural system built into their helmet/environmental suit or have a digital mind. The user's mind is used for the bulk of the Motive's computing and control needs, making the Motive a second body for the user. The movement of the Motive is much more fluid compared to those using it in analog mode.

In addition to controlling the Motive, the DCM is also responsible for processing and displaying faults in the Motive's subsystems.

The DCM can be replaced with a [Destiny PAWN](#) should the user desire more onboard computing power (and a "companion" on those lonely dig sites).

Life Support

Not an enclosed system, the Motive relies on external environmental suits to provide life support systems. The default [Type 45 Protective Industrial Task Helmet](#) of the Motive provides limited life support in the form of basic atmospheric filter and a 30 minute oxygen supply.

Power and Propulsion Systems

The Motive makes use of [impulse backplate](#) backplate to provide power. The default Motive backplate is a series of [Interchangeable High-Volume Capacitor](#) packs that provide the power needed to operate the Motive for 12 hours of normal work conditions. If the packs are being tapped into for weaponry, the duration of the Motive will be severely limited to 1 hour of constant usage. More robust Impulse backplates can be swapped out for usage.

For enhanced mobility, the Motive has basic inertia control systems that allow the exoskeleton limited flight abilities (primarily just floating). It is highly advised for users to not try to tax the control systems by trying to fly like a [Minkan](#), the system is not very agile.

Additional propulsion systems are available depending on the type of backplate installed on the Motive.

Sensors and Communications

In its default setting, the Motive makes use of simple radio systems for communication purposes. For sensors, the motive simply has a simple LIDAR system located in the shoulders that allows the user to map out where they are and used as a poor man's motion tracker.

Visual enhancement depends on the helmet used by the user with the Motive.

Accessories and tools

Being a non-combat exoskeleton, weapon system integration was not a priority for the designers. But the Motive has installable hardpoints that can mimic the same function as found in the Impulse Power Armor.

Hardpoints

The Motive can be installed with the following hardpoints:

- Shoulders
- Backplate
- Forearm

The Motive can make use of the same accessories as the Impulse for their respective installation locations. Additional equipment can be installed if designed by OI or OI made adapters are used for installation.

Add-on Modules

Targeted for the industrialists of the Kikyo Sector, Origin Industries has created the following as add-on modules for the Motive.

Multistruct Storage Module

Designed to work with the [MultiStruct Multitool](#) equipped gear, the Multistruct Storage Module consists of a sorting system that distributes elemental plasma by its atomic weight. Each tank talks to the system to ensure only the target element is brought into it. It is standard practice that two “waste” tanks (in addition to a built in overflow tank) are installed to contain plasma that are not accepted by other tanks.

When the multistruct tool is used for construction, the flow of plasma reverses, using the built-in computer to ensure the proper mixture is sent according to the needs of the tool.

- Nomenclature: OI-M9-M4500
- Cost: 3,000 KS

Loadbearing Module

The Loadbearing Module is a backplate attachment designed to enhance the Motive's load-carrying capacity. It features a reinforced frame and advanced servo motors that allow the user lift and carry heavy loads of palletized cargo with ease. This module is particularly useful for logistics personnel and

construction workers who need to transport heavy materials.

- Nomenclature: OI-M9-M4501
- Cost: 1,000 KS

Enhanced Sensor Module

The Enhanced Sensor Module provides the Motive with advanced sensory capabilities, including prospecting sensors, advanced LIDAR, and rangefinding sensors used for survey work. This module is attached to a shoulder hardpoint of the Motive and is useful for workers in all fields, particularly those in mining and salvage who need to detect materials or need to ensure they know where they are in their environment.

- Nomenclature: OI-M9-M4502
- Cost: 1,200 KS

Enhanced Lift Module

The Enhanced Lift Module is an upgrade to the Motive's standard lifting capabilities. Attached to the forearms with articulating blades and specialized servos, the Enhanced Lift Module allows the user to function as a forklift for small palletized loads.

This allows the Motive to lift and carry significantly heavier loads than if the user just lifted with the exoskeleton alone. This module is ideal for construction workers, miners, and anyone else who needs to move heavy objects as part of their job.

- Nomenclature: OI-M9-M4503
- Cost: 1,500 KS

Manipulator Arm Module

The Manipulator Arm is designed in order to improve efficiency in environments where more “hands” is needed such as construction or mining. These manipulators are attached to the shoulder hardpoints.

Manipulators each have their own Digital Control Module that can be synced with the Motive's main DCM. A digital mind or ability to neurally link with the manipulators is required to use the manipulators. The sub DCMs allow a user to learn how to use them proficiently with a day's worth of training, though mastery will take much longer.

The manipulators can also be controlled by an AI if the Motive has the required computer hardware installed.

- Nomenclature: OI-M9-M4504
- Cost: 2,500 KS

OOO Notes

[Kai](#) created this article on 2023/04/26 07:11. [Demibear](#) completed the wiki article.

Approval thread:

<https://stararmy.com/roleplay-forum/threads/origin-industries-m9-motive-industrial-exoskeleton.70576/#post-438421>

From:

<https://wiki.stararmy.com/> - **STAR ARMY**

Permanent link:

https://wiki.stararmy.com/doku.php?id=corp:origin:m9_motive

Last update: **2023/12/21 00:58**

