

Yu-M1-2B Series "Molly" Light Mechanized Power Armor

Developed by [Yugumo Fleetworks](#), the Yu-M1-2B Series "Molly" Light Mechanized Power Armor was first conceived in [YE 43](#) as a military prototype of the [Tenshi II](#). Full production of the armor began in [YE 45](#). Of the armor's many design objectives, it is primarily intended to provide the [Star Army of Yamatai](#) with a fast, advanced light power armor platform capable of serving alongside the [Ke-M2-4 Series "Mindy" Armor](#) and supplementing its capabilities.



History

Anticipating the 5-year review of the [Ke-M2-4 Series "Mindy" Armor](#) coming up in [YE 43](#), [Yugumo Fleetworks](#) developed a prototype of a variant of the *Tenshi II* for marketing to the [Star Army of Yamatai](#),

powered by military-grade versions of the same systems used in the civilian variant. This prototype did not fully mature until late [YE 44](#), having undergone a number of changes from what was initially conceived. The *Molly* is slated for full integration into the service in [YE 45](#).

About the Yu-M1-2B Series "Molly" Light Mechanized Power Armor

With roots in [Project THOUGHT](#), the *Molly* is best characterized as as an advanced, high-performance version of the *Mindy 4*. While the *Molly* lacks its sister's teleportation system in its stock configuration, it makes up for this shortcoming in raw performance, via augmented speed, agility, stealth, and sensor capabilities. Otherwise, the *Molly* retains almost all of the technological advances included in the *Mindy 4*, including, but not limited to, resistance against aetheric interference, an advanced photonics array, and anti-gravity systems.

Of particular note, the *Molly* is designed as a hybrid spacey and groundside power armor. This versatility in operating environment is intended to encourage review by both the *Rikugun* and the *Uchuugun* for inclusion in one or both of the branches.

As of late YE 44, there are no plans to create [Separa'Shan](#) or [Elysian](#) variants of the *Molly*. Given the armor's steep physiological and mental demands, it is doubted that any Separa'Shan or Elysian personnel would be able to pilot the armor beyond the level of a liability.

Statistics & Performance

The Yu-M1-2B Series “Molly” Light Mechanized Power Armor is an advanced light power armor with a practical range, lifespan, and maintenance cycle.

General Statistics for the Yu-M1-2B Series “Molly” Light Mechanized Power Armor	
Year Introduced	YE 45
Class/Nomenclature	Yu-M1-2B
Designers	Yugumo Fleetworks
Manufacturer	Yugumo Fleetworks
Fielded By	Star Army of Yamatai
Range	15 Days; Up to 10 Years with Pilot in Stasis - Limited by Pilot Needs
Maintenance Cycle	Bi-Monthly
Lifespan	20 Years
Pricing	N/A - Not for Sale

Appearance

Its appearance is clearly based on, while still trying to remain distinct from, the famous [Mindy](#) that its

[predecessor](#) was designed to replace. The slender, agile-seeming *Molly*'s look is derived from the namesake of its civilian sister variant (Yoru no Tenshi ([Yamataigo](#) (邪馬台語) 夜の天使) "Angel of the Night") with its nacelles, arcing gracefully from its back like wings, that bear the unit's [Turbo Aether Plasma Drives](#). Its highly streamlined appearance is reminiscent of a [Zentai](#) suit, featureless and sleek. Clearly only lightly armored, the *Molly* adds very little bulk to the silhouette of its pilot.

Advantages

- The *Molly* has integrated stealth and electronic warfare capabilities.
- Parts and systems commonality with the *Mindy 4* enables easier repairs and field maintenance. The *Molly* can also use [Mindy Accessories](#) in its hardpoints without adapters.
- The *Molly* is fast and agile, benefitting from improved atmospheric and space performance over the *Mindy 4*.
- Compatible with [Project THOUGHT](#) technologies and features, which can be leveraged by an advanced pilot to get the most out of the armor in any given battlespace.
- The *Molly* has an advanced, stealthy aether generator which is well-shielded against detection and interference.

Drawbacks

- The *Molly*'s photonic barriers and ICFS can not be used at the same time, as the ICFS fields will disrupt photonic projections.
- The *Molly*'s stock configuration has limited underwater speed, endurance, and utility. Improving this requires installment of the [Umikagami Subsurface Operations Suite](#), which takes all up shoulder, dorsal, waist, and leg hardpoints.
- Due to its speed and agility, The *Molly* is extremely taxing on a pilot's joints and physical constitution, even more so than the [TARSA](#). As such, the armor *almost* necessitates a synthetic pilot with an advanced healing factor to be used to its full capability. In rare cases, untrained Nekoalkyrja have been known to come away from piloting the armor with torn muscles or strains.
- The *Molly* does not use [Zesuaium](#) in its outer armor construction. Its light [Durandium Alloy](#) armor is significantly less durable than the heavy plating used in the *Mindy 4*.
- For all intents and purposes, the *Molly* is an advanced platform. There is a wide performance gap between [average and advanced pilots](#). It demands a fast mental reaction time, robust mental processing power, and a highly-trained physical constitution. More often than not, the *Molly*'s steep physical and mental demands make it a liability in the hands of pilots who lack a digital mind and a strong healing factor.

Mobility

The Yu-M1-2B Series "Molly" Light Mechanized Power Armor is a dynamic, high-performance power armor designed for speed and agility over defensive capacity. Much like the *Mindy 4*, the *Molly* can ignore gravity and inertial forces, enabling it to instantly stop, accelerate, or change directions, walk on ceilings or walls, manipulate its weight, and hover in midair.

- Ground Speed (Running): ~100 km/h

- Ground Speed (Boost Skating via [MIARA Ground Mobility System](#)): ~500 km/h
- Maximum Atmospheric Speed (Hovering via [Anti-Gravity System](#)): 1000 km/h
- Maximum Atmospheric Speed (Via [TAP Drives](#) and [ICFS](#)): 🌀 Mach 5
- Maximum Sublight Speed (Via [TAP Drives](#) and [ICFS](#)): 0.425c
- [ICFS](#) FTL: 10c
- [Yumeoibito - Mini Hyperspace Fold Drive](#): 131,490c (0.25 ly/m)¹⁾

Armor Size

Height	Adds ~8 cm to Pilot's Height
Width	Adds ~6 cm to Pilot's Width

Damage Capacity Stats

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

- Armor: Tier 4 (Light Armor)
- Shields: Tier 4 (Light Armor)

Getting In and Out

The *Molly* uses the most common method of wearing and removing the armor, such as typified by the *Mindy 4*. It can be worn naked or over the [Star Army Bodysuit, Type 42](#). However, any footwear should be removed prior to donning the armor, in addition to any hard objects such as belts and rank badges.

Like the *Mindy 4*, there is a back “collar” piece for hanging them on an armor rack.

To don the armor, the center plates at the front of the armor's chest and abdomen angle forwards and downward and the user enters feet-first through the armor's chest area. Then the user can close up the suit and put on the helmet.

To doff the armor, first the helmet is removed, then the chest is opened and the pilot should lean as far forward as possible and free their arms from the armor's arms. Next the pilot can pull themselves up and out of the armor.

Controlling the Armor

The primary control method of the *Molly* is [SPINE](#). Much like the *Mindy 4*, [Type 33 Nekoalkyrja](#) can operate the armor by instinct alone, though it should be noted that this does not grant instant mastery over its systems. Alternatively, pilots with analog (non-digital) brains can connect to the *Molly* via Direct Neural Interface using the [SQUID](#) system provided by the [KAIMON](#) interface.

Control of the *Molly* can be further enhanced for pilots with digital brains via the [Project THOUGHT](#)

technologies and features included in the armor, including the [Immersion System](#), polyphonic quad-crystal [Crystalline Audio Sensor Array](#), 'skin vision', and yet more. While these functions are often too demanding for average users, Type 33 Nekovalkyrja can progress towards becoming proficient in them faster than non-Nekovalkyrja pilots.

Ownership Restrictions and Security

Molly power armors are considered to be the property of the Star Army of Yamatai. Accordingly, the Star Army is extremely vigilant in ensuring that units remain in their possession or failing that, are destroyed. All *Molly* units are linked to the [SACN Encryption System](#). Upon reaching the Red Untrusted status, the armor *may* self-destruct should certain conditions be met.

Systems

The sub-components of the Yu-M1-2B Series "Molly" Light Mechanized Power Armor include the following:

- 2 Yu-M1-W4500 Aether [Plasma Guns](#)
- 2 Yu-M1-W4501 Aether [Plasma Cannons](#)
- Ke-M2-E3800 [Armor Integrated Electronics System](#)
- Yu-M1-E4500 [Sorakagami Aerospace Operations Suite](#)
- Yu-M1-E4501 [Type 44 Electronic Warfare Suite](#)
- Yu-M1-E4300 Titanium Boron Carbide-[Durandium Alloy](#) Composite Frame
- Yu-M1-E4301 [KAIMON-Passage](#) System
- Ke-M2-E3801 [Photonics Array](#)
- Ke-M2-E3802 [Psionic Signal & Anti-Magic Control Device](#)
- Yu-M1-G4500 Aether Generator - Shielded
- Yu-M1-G4501 Battery Capacitator System
- Yu-M1-P4500 [Integrated Combined Field System](#)
- Yu-M1-P4501 [Hoshi III Series Multi-Stage Turbo Aether Plasma Wings](#)
- Yu-M1-P4503 [Azure I Series Anti-Gravity System](#)
- Yu-M1-M4500 [MIARA Ground Mobility System](#)
- Ke-M1-E4500 [Crystalline Audio Sensor Array](#)
- Ke-M1-E4501 [Immersion System](#)

Of particular note, the *Molly* shares a great deal of parts and systems commonality with the *Mindy 4*, easing the strain of logistics and repair.

Armor

The spaceframe and armor plating is based on the older [Shouri Multi-layer Hull and Frame Construct Type 1B Assembly](#), primarily made of lightweight [Durandium Alloy](#). It is enhanced with an inner layer made of layers of [Dataweave](#) sandwiched between [Kinugoshi-ko](#), with an innermost lining of [Self-Regenerating Fabric Coating \(SRFC\)](#) allowing for both fabric repair and wound patching, while still

capable of wicking sweat.

Much like the *Mindy 4*, the *Molly* is rated to withstand the demands of space travel and atmospheric reentry. In doing so, it is capable of protecting the pilot from radiation, micrometeoroid strikes, heat, and other cosmic hazards. The *Molly* is also rated to protect the pilot from CBRN threats.

Stealth and Camouflage

The *Molly*'s outer shell is impregnated with transparent [Xiulurium](#) layered over [Omnihue](#) allowing the pilot or onboard AIES to change the color of the surface. This provides integrated optical camouflage, high visibility mode, stealth field generation or Star Army livery, without repainting. The *Molly*'s default color scheme is [Star Army Cadet Blue and Periwinkle](#), with glowing cyan highlights.

The armor is constructed with a deliberate eye towards minimizing its auditory signature. The plating is arranged constructed to reduce contact between plates, even during intensive movements. In addition, the hemosynthetic interior insert serves to reduce sound output, making the *Molly* a relatively quiet machine.

The *Molly* enjoys the full functions of the [Azure I Series Anti-Gravity System](#). Accordingly, the *Molly* can use the *Azure I*'s [signature reduction](#) systems to nullify its gravitational and mass distortion signature, rendering the power armor effectively invisible to mass, electrogravitic, and gravitational sensors.

Keg'sta Heat Management Device

The *Molly* is the first Star Army power armor to be equipped with the [Keg'sta Heat Management Device](#). Comprised of a network of tiny pipes, tubes, and heat sinks, the Keg'sta Device uses the infrastructure of the *Molly*'s aether generator to siphon heat and other waste products back into the [Aether](#), thereby minimizing the power armor's heat signature.

Life Support

For the primary life support functions, the *Molly* uses the [Ke-M2-F4300 Hemosynthetic Interior Insert](#). The armor can support a pilot for up to 15 days before replenishment is needed, or up to 10 years in stasis. If needed, the *Molly* can filter outside air to replenish its supply (not usually done until absolutely necessary, though). The *Molly* also features inertial compensators to protect the pilot from g-forces.

To ease treatment of a wounded or debilitated pilot, the *Molly* has a number of injection ports located at various point on the armor, which line up with select regions of the pilot's body.

Power Systems

The *Molly* uses a stealthy, compact [Aether Generator](#) for power. For protection against detection and interference, a sandwiched layer of [Xiulurium](#) set over and one-atom thick [Zesuaium](#) coats the aether generator, taking advantage of Zesuaium's inert qualities against heat and electromagnetic forces (thereby eliminating the aether generator's heat signature) and the protective, anti-aether interference stealth field generated by Xiulurium.

- **Battery Capacitors:** Provides backup power for 48 hours of minimal operation, 18 hours of moderate-load operation, and no less than 3 hours of intense operation under high-speed maneuvers, full-power shield deployment, maximum-power weapons fire, heavy ICFS usage, and similarly demanding activities.

Photonics Array

The *Molly* replaces the [Solid Volumetrics](#) used on the Tenshi II with the [Photonics Array](#) used on the *Mindy 4*. The latter system has the same functionality as the former, but with the added benefit of systems commonality with the *Mindy 4*.

The *Molly*'s cutting-edge photonics projection system has emitters in several places around its chassis. It can project volumetric displays for supplemental interactions with KAIMON or other computers, or to allow others the same. It can also use this system to project protective barriers, holographic or solid camouflage or disguises, or to create simple, ad-hoc hand tools, freeing them of the need to carry basic tool kits.

However, it should be noted that the *Molly* is unable to use photonic barriers and the ICFS at the same time, since the fields generated by the ICFS will disrupt photonic projections.

Propulsion

The *Molly* replaces the [Mizu II Series - Amadare II CDD](#) with the [ICFS](#), maximizing the FTL CDD performance at 2,500c. The ICFS can also be used for sublight propulsion, up to 0.425c.

In addition to the ICFS, the *Molly* variant is upgraded with two [Hoshi III Series Multi-Stage Turbo Aether Plasma Drives](#) for sublight speed, located in the wings of the armor. Sublight performance for the aether plasma drives usually can withstand up to 0.425c. Supplemental maneuvering engines are provided by the [Aether Plasma Projection System](#). However, like many Yamataian designs, the TAP drives and maneuvering engines burn "clean" aether by filtering out harmful antimatter and radiation when necessary. As such, full power to these drives can be safely deployed in atmosphere without compromising local ecosystems or atmospheric health. However, the weaponized emitters of the aether plasma projection do not filter out antimatter or radiation and instead draw raw or "dirty" aether to deliver as condensed potentials towards hostile units.

Optionally, the *Molly* can install a [Yumeoibito - Mini Hyperspace Fold Drive](#), though this will take the armor's dorsal hardpoint.

The *Molly* also has an [Azure I Series Anti-Gravity System](#) which runs at all times.

In its stock configuration, the *Molly* can descend to a maximum depth of 500 meters underwater. With the [Umikagami Subsurface Operations Suite](#) installed, the armor can descend at least 6000 meters underwater, with the additional benefit of subaquatic sensors and improved underwater propulsion systems.

Finally, the *Molly* is capable of Boost Skating²⁾, a maneuver where the armor sets its feet in contact with the ground, while using its propulsion systems ([ICFS](#), [Hoshi III Series Multi-Stage TAP Drives](#), and/or [Anti-Gravity System](#)) to “skate” along the ground. This maneuver is enabled by the [MIARA Ground Mobility System](#), which reduces (or increases) friction as needed to facilitate movement and control.

Sensors, Communications, and Electronics

The *Molly* runs [Armor Integrated Electronics System \(AIES\)](#) as a primary system, with [KAIMON-Passage](#) relegated to a secondary role. It also has the uplink and PANTHEON/SYNC connect module. Via [cooperative engagement networking](#), the Molly can share and receive sensor and targeting data from friendly units in real-time, enhancing the armor's battlespace awareness.

Defensive Matrix

Networking the *Molly's* electronic warfare, fire control, sensor, electronic, and integrated weapon systems, AIES is capable of protecting the armor via an omnidirectional defensive matrix, enabling automated point-defense and ECM capabilities. The matrix can manifest these systems in a wide range of applications, including, but not limited to, utilizing outgoing [graviton](#) pulses to physically repel incoming warheads, [scalar](#) pulses to dud the electronics of enemy missiles, generating automatic targeting solutions on enemy ordnance so that the pilot can shoot them down, or automated ECM activation in response to enemy lock-on attempts. Given these automated defensive capabilities, the *Molly* can free up the pilot's attention to focus more on offense, rather than defense. Naturally, the defensive matrix's settings can be altered based on the parameters of the engagement or by the pilot directly. They can account for the presence of unarmored civilians or allies, changing outputs or options as needed in order to avoid friendly fire or unfortunate accidents. In addition, the various systems comprising the defensive matrix have the option of being operated manually, should the pilot choose to do so.

Electronic Warfare Suite

The *Molly* is equipped with [Star Army Electronic Warfare Suite, Type 44](#), the [Star Army of Yamatai](#) variant of the [ELECTRA](#) system. The Type 44 EWAR Suite is capable of communicating and coordinating with the onboard ICFS, enabling the functions of the latter to be used to enhance the former and vice versa.

For use during full ICFS stealth (when the *Molly* is fully hidden within its bubble plane) the sensors are augmented with a Transmetaphasic Quantum Particle Wave Remote Detection Device (RDD). Carrying out passive observations through linked quantum particles, the RDD can track, detect, and observe mass and energy signatures. The AIES can also extrapolate the shape and position of mass and energy

signatures to the pilot while they are inside of the bubble plane, allowing them to observe real space. This system has a maximum range of 2,000 km.

Optics and Audio

The *Molly* features an optical and auditory sensor suite which has all the functions of the corresponding systems used in the [Kirie Thought Armor](#). These systems include a polyphonic quad-crystal [Crystalline Audio Sensor Array](#), optical tracking and panoramic 'skin vision' via the [Omnihue](#), and primary and secondary optics for secondary functions, and other features of the [Immersion System](#).

Sorakagami

The *Molly* includes the [Sorakagami Aerospace Operations Suite](#) integrated from the factory.

Weapons

The *Molly's* integrated weapons system is its [Aether Plasma Projection System](#), but it is not usable without an emitter. Emitters may be placed on hardpoints, and come in two sizes. The [Aether Plasma Cannon](#) mounts to a shoulder mount, and the [Aether Plasma Gun](#) mounts to the forearm.

- 2 [Aether Plasma Guns](#) - Tier 4 (Light Anti-Armor)
- 2 [Aether Plasma Cannons](#) - Tier 6 (Heavy Anti-Armor)
- Omnidirectional [Scalar Field Projection System](#) - Tier 4 (Light Anti-Armor)
- Omnidirectional [Scalable Graviton Beam Projector Array](#)

Hardpoints

The *Molly* was designed with modularity in mind. The modular mounting system is compatible with all power armor accessories produced by [Yugumo Corporation](#), [Ryu Keiretsu](#), and all [Mindy Accessories](#) without adapters. Adapters are available for [Origin Industries](#) and [Galactic Horizon](#) accessories for 100 [KS](#) per hardpoint.

- Handheld
- Left Shoulder - Occupied by [Aether Plasma Cannon](#) in stock configuration
- Right Shoulder - Occupied by [Aether Plasma Cannon](#) in stock configuration
- Dorsal
- Utility/Cargo
- Left Waist
- Right Waist
- Leg Pods
- Left Forearm - Occupied by [Aether Plasma Gun](#) in stock configuration
- Right Forearm - Occupied by [Aether Plasma Gun](#) in stock configuration

Compatible Yugumo Fleetworks Power Armor Accessories

The *Molly* is compatible with the following Yugumo Fleetworks power armor systems:



- [Yu-W6-W4304A Light Armor Service Rifle](#)
- [Yu-W6-W4304B Light Machine Gun](#)
- [Yu-W6-W4304C Armor Service Pistol](#)
- [Yu-W6-W4305A Armor Service Rifle](#)
- [Yu-W6-W4305B General Purpose Machine Gun](#)
- [Yu-W6-W4306A Armor Interdiction Rifle](#)
- [Yu-W6-W4306B Medium Machine Gun](#)
- ["Suzukaze" Mini-Missile Launchers Type 43](#)
- [Umikagami Subsurface Operations Suite](#) - Takes all shoulder, dorsal, waist, and leg hardpoints

OOC Notes

[Immortal Cyan](#) created this article on 2022/11/11 13:38. [Approved](#) by [Wes](#) on January 13, 2023.

Star Army Logistics	
Supply Classification	Class C - VEHICLES AND POWER ARMOR
First Used	YE 44
Products & Items Database	
Product Categories	power armor
Product Name	Yu-M1-2B Series "Molly" Light Mechanized Power Armor
Nomenclature	Yu-M1-2B
Manufacturer	Yugumo Corporation, Yugumo Fleetworks
Year Released	YE 43
Price (KS)	65 ,000.00 KS

1)

Yumeoibito - Mini Hyperspace Fold Drive Takes Dorsal Hardpoint

2)

See: [Glide Boost](#) from Armored Core. [Example](#).

From:

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

Permanent link:

https://wiki.stararmy.com/doku.php?id=stararmy:equipment:yu-m1-2_series_molly_armor

Last update: **2024/03/31 10:22**

