

M19 Weapons and Accessories

The following is a list of accessories, weapons, and add-ons created for the [M19 Ryoko Mecha](#). Due to the power limitations of the Ryoko's reactors and capacitors, up to 8 Tier Weapons (TW) and 2 Tier-Equivalent Weapon Group (TEWG).

Shoulder Hardpoint

Weapons typically designed for the shoulder are missiles and indirect support weaponry. Ammunition for a large handheld weapon is also attached to the shoulder but actually are behind the Ryoko. Typically they are attached to the "Planetary" backpack which removes the upper thruster vanes of the Ryoko.

Ke-M19-W4315 Quad Mini-Missile Rack

Consisting of four modified [Ke-M2-W2906 Shoulder-Fired Missile Pods](#) slaved together to a single fire control system, the Ke-M19-W4315 Quad Mini-Missile Rack fulfills an anti-armor role. When not in use, the missiles are protected by the pod's launcher covers.

- Power Cost: 1 TEWG
- Nomenclature: Ke-M19-W4315
- Designers: [Ketsurui Fleet Yards](#)
- Manufacturer: [Ketsurui Fleet Yards](#)
- Warhead: [Star Army Mini-Missiles, Type 41](#)
- Purpose: [Varies on warhead used \(Tier 6 is the max\)](#)
- Damage: [Varies on warhead used \(Tier 6 is the max\)](#)
- Range: 50 miles
- Rate of Fire: Volleys of 5, 10, 20 per pod. Volleys can be combined.
- Payload 80 Mini-Missiles (20 in each pod).

Ke-M19-W4302 Dual Torpedo Adapter

Ke-M19-W4302 Dual Torpedo Adapter is a simple mounting system that mimics hardpoints found on fighters. While useless in a terrestrial environment, they can be used to carry torpedos in a Zero-G environment like fighters.

- Power Cost: none
- Nomenclature: Ke-M19-W4302
- Designers: [Ketsurui Fleet Yards](#)
- Manufacturer: [Ketsurui Fleet Yards](#)

Compatible Torpedos

- [Ke-Z1 Series Anti-Starship Torpedoes](#)

Ke-M19-W4319 155mm Linear Howitzer

A lighter version of the [200mm Heavy Railgun](#) intended for mounting on the shoulder. The Ke-M19-W4319 does not require the Ryoko to be immobile in order to fire indirectly on planets. When not active, the barrel of the weapon folds upward to reduce the length of the weapon.

* Power Cost: (1 TW)

Nomenclature Information

- Designer: [Sakura Machinery](#)
- Manufacturer: [Ketsurui Fleet Yards](#)
- Name: 155mm Linear Howitzer
- Nomenclature: Ke-M19-W4319
- Type: Gauss
- Role: Artillery
- Length: 9 meters (combat), 5 meters (folded)
- Weight: 800kg

Appearance

The Ke-M19-W4319 155mm Linear Howitzer is made up of three sections, the barrel assembly, the breech assembly, and the autoloader/magazine. The barrel is a simple tube of [Durandium Alloy](#) that has a boxy appearance halfway to the breech assembly. The Breech Assembly looks like a wide boxy shape that pivots in the center. The autoloader looks like a crane's counter-weight and remains in the same shape no matter the elevation of the barrel.

Discharge Information

- Muzzle Flash: Blue ionized air and ripples in the air
- Retort: Thunderous thunderclaps
- Projectile/Beam Appearance: Normally not visible to the average eye. High-speed cameras will see the round as if unfired.
- Effective Range: Indirect: 90 km, direct: 8 km
- Rate of Fire: 10 rounds per minute
- Recoil: Heavy, kinetic force from sonic boom will shake the M19 Ryoko.

Ammunition

The 155mm Linear Howitzer makes use of the [155x600mm Railgun Round](#).

- Capacity: 25, can be reloaded by another Ryoko with the same magazine block or support vehicles in the field.

Weapon Mechanisms

- Firing Mechanism: The round within the weapon is programmed on when to explode. The capacitors are then discharged and the electromagnetic coils are activated in a cascading order. The weapon's autoloader then reaches into the magazine, activates a magnet to grasp a new round, and then loads it into the breech of the weapon. The round is then activated (if not kinetic) and waits for programming.
- Firing Arc: 60 degrees up and 15 degrees down
- Loading: Rounds are fed from a magazine block at the rear of the M19.
- Mode Selector: Selected by [Ke-M12-E3301 Weapon Subcomputer](#)
- Firing Modes: Toggled by [Ke-M12-E3301 Weapon Subcomputer](#)
- Safety Mechanism: Toggled by [Ke-M12-E3301 Weapon Subcomputer](#)
- Weapon Sight: KIES linked weapon sight is used for CAS and direct fire. For indirect, the KIES calculates trajectories and pilot moves the howitzer to the right elevation.
- Attachment Hard Points: None

Forearm Hardpoint

Typically used as a connection point for high powered handheld weaponry, small offensive and defensive systems can also be attached.

Ke-M19-W4305 Multipurpose Plasma Forearm Weapon

The Ke-M19-W4305 is a light anti-mecha weapon with offensive and defensive capability (convex shield). It is based on the [Ke-M12-W3300 Forearm Weapon](#), with connections for handheld weapons. The Ke-M19-W4305 rises from its compartment and projects its blade over the hands of the Ryoko. An extended magnetic handguard keeps the hand from moving into the field of fire.

- Power Cost: 0.5 TW
- Nomenclature: Ke-M19-W4305
- Designers: [Ketsurui Fleet Yards](#)
- Manufacturer: [Ketsurui Fleet Yards](#)

Firing Mode	Purpose	Rate of Fire	Area of Effect	Range
Blade	Tier 7 , Light Anti-Mecha	Constant	Single Target	13'(4m), 2'(61cm) wide blade, wider at the base

Firing Mode	Purpose	Rate of Fire	Area of Effect	Range
Pulse	Tier 5 , Medium Anti-Armor	500 pulses per second	Single Target	4.3 miles(7,000m), 1'(30cm) wide pulse
Beam	Tier 7 , Light Anti-Mecha	1 beam every 2 seconds	Single Target	50 miles(80km), 1'(30cm) wide beam

Hip Hardpoint


While small weaponry emplacements can be attached to the hips, the hip hardpoints are typically used for utilitarian purposes.

Ke-M19-W4316 Dual Mini-Missile Rack

Consisting of two modified [Ke-M2-W2906 Shoulder-Fired Missile Pods](#) slaved together to a single fire control system, the Ke-M19-W4316 Dual Mini-Missile Rack fulfills an anti-armor role. When not in use, the missiles are protected by the pod's launcher covers.

- Power Cost: 0.5 TEWG
- Nomenclature: Ke-M19-W4316
- Designers: [Ketsurui Fleet Yards](#)
- Manufacturer: [Ketsurui Fleet Yards](#)
- Warhead: [Star Army Mini-Missiles, Type 41](#)
- Purpose: [Varies on warhead used \(Tier 6 is the max\)](#)
- Damage: [Varies on warhead used \(Tier 6 is the max\)](#)
- Range: 50 miles
- Rate of Fire: Volleys of 5, 10, 20 per pod. Volleys can be combined.
- Payload 40 Mini-Missiles (20 in each pod).

Ke-M19-G4315 Aether Beam Cannon Generator

Due to the [M19 Ryoko Mecha](#) being primarily powered by fusion reactors, an additional aether generator is required for peak operation. Armored with [Yama-Dura](#) plating, the Ke-M19-G4315 Aether Beam Cannon Generator is lined with [Yarvex](#) and [Xiulurium](#) to further protect the generator from  [spall](#) and reduce its energy signature.

- Class: Power Generator
- Nomenclature: Ke-M19-G4315
- Designers: [Star Army Research Administration](#)
- Manufacturer: [Ketsurui Fleet Yards](#)
- Users of this product: [Star Army of Yamatai](#)

Ke-M19-M4302 Weapon Mount

A specially designed weapon mount for the Aether Beam Cannon and the plasma blade. It can also accommodate other weapons that reduce their size in a similar manner.

- Class: Utility
- Nomenclature: Ke-M19-M4302
- Designers: SARA
- Manufacturer: [Ketsurui Fleet Yards](#)
- Users of this product: [Star Army of Yamatai](#)

Outer Calf Hardpoint (2)

The outer calf mirrors the shoulders with its primary use being the location of missile-based weaponry. Support for additional propulsion systems also exists.

Ke-M19-W4315 Quad Mini-Missile Rack

- Data located [above](#).

Ke-M19-W4302 Dual Torpedo Adapter

- Data located [above](#).

Handheld

Not technically a hardpoint, the hands of the Ryoko do have power/gass supply connection points for supported handheld weaponry (or attached to the forearm hardpoint).

Ke-M19-W4300 Aether Beam Cannon

- Power Cost: 4 TWs
- Data is available here: [here](#)

Ke-M19-W4301 200mm Heavy Railgun

The Ke-M19-W4301 200mm Heavy Railgun is designed as an alternative for orbital bombardment and fires missions that do not require high mobility. The [Ke-D7-W3200 Mass Driver Gun](#) serves as an inspiration for the weapon. The weapon was developed by [Sakura Machinery](#) in [YE 42](#) and given its


nomenclature in [YE 43](#).

- Power Cost: 2 TWs

Nomenclature Information

- Designer: [Sakura Machinery](#)
- Manufacturer: [Ketsurui Fleet Yards](#)
- Name: 200mm Heavy Railgun
- Nomenclature: Ke-M19-W4301
- Type: Gauss
- Role: Artillery, Orbital Bombardment, anti-mecha
- Length: 10 meters
- Weight: 1,200 kg

Appearance

The 200mm Heavy Railgun is a long weapon that resembles a  [bazooka](#). At the end of the weapon, is the firing assembly, autoloader, and box magazine underneath it. The whole weapon is made with [Durandium Alloy](#) and usually colored in Yamataian blues or black.

Discharge Information

- Muzzle Flash: Blue ionized air and ripples in the air. In space, there is no muzzle flash.
- Retort: Very loud and deep thunderclaps.
- Projectile/Beam Appearance: Normally not visible to the average eye. High-speed cameras will see the round as if unfired.
- Effective Range: 150 km (atmospheric)
- Rate of Fire: 5 rounds per minute
- Recoil: Very

Heavy, shakes the whole mecha when used within an atmosphere.

Ammunition

The [200x800mm Railgun Round](#)

- Capacity: 12

Weapon Mechanisms

- Firing Mechanism: The round within the weapon is programmed on when to explode. The

capacitors are then discharged and the electromagnetic rails are activated that accelerate the round out. The weapon's autoloader then reaches into the magazine, activates a magnet to grasp a new round, and then loads it into the breech of the weapon. The round is then activated (if not kinetic) and waits for programming.

- Loading: Rounds from the magazine is autoloaded into the breech of the weapon.
- Mode Selector: Selected by [Ke-M12-E3301 Weapon Subcomputer](#)
- Firing Modes: Toggled by [Ke-M12-E3301 Weapon Subcomputer](#)
- Safety Mechanism: Toggled by [Ke-M12-E3301 Weapon Subcomputer](#)
- Weapon Sight: KIES linked weapon sight.
- Attachment Hard Points: None

Notes

While on a planet, the Ryoko (or any other Mecha making use of the weapon that isn't quad-legged) needs to sit in order to handle the recoil of the sonic boom and to aim accurately long distances. It can be used normally, with care, for direct use.

Ke-M19-W4303 Particle Beam Rifle

The Ke-M19-W4303 is designed to be an anti-mecha weapon for direct support missions. Developed by [Sakura Machinery](#) for use with sister corporation [Ryu Heavy Industries](#) mecha design, it was adopted for M19 used under the nomenclature Ke-M19-W4303 in [YE 43](#).

- Power Cost: 1 TW

Nomenclature Information

- Designer: [Sakura Machinery](#)
- Manufacturer: [Sakura Machinery](#)
- Name: General Purpose Plasma Rifle
- Nomenclature: Ke-M19-W4303
- Type: Plasma
- Role: General Purpose Rifle
- Length: 4 meters (barrel collapses to streamline shape for attachment to M19 weapon mount)
- Weight: 500kg

Appearance

The Ke-M19-W4303 is a sleek, black rifle that shares some features of the much smaller [Ke-M2/12-W3903 Coherent Aether Rifle](#). It has a tuning fork type barrel that is used to focus the plasma particles and project them in the firing sequence. A weapon sight is located at the top of the weapon on rails and the back of the weapon housing cabling to power connections if a Mecha is not compatible with the power connections in the grip.


Discharge and Energy Source Information

- Energy Source: Plasma
- Damage: Tier 7, Light Anti-Mecha (Beam)/ Tier 8, Medium Anti-Mecha (Continuous Beam)
- Muzzle Flash: The barrel of the weapon emits a reddish-purple light when discharged.
- Retort: The weapon emits a high-pitched whine.
- Projectile/Beam Appearance: Bright reddish-purple beams of light. On continuous firing mode, the diameter of the beam is nearly twice as wide as the barrel of the rifle itself.
- Effective Range: 150,000 km in space, 50km in atmosphere.
- Rate of Fire: 1 plasma beam per 3 seconds or the weapon can fire a continuous plasma beam for 5 seconds every 10 seconds.
- Recoil: Moderate and upward recoil pattern.
- Capacity: Effectively unlimited as long as it within the hand of the M19 Ryoko. Should it be disconnected, the weapon can fire whatever is loaded once.

Weapon Mechanisms

- Firing Mechanism: At the squeeze of the trigger, the capacitors within the weapon discharge their energy into the weapon's plasma exciter filled with helium-3 gas. The gas is supercharged into plasma, focused and then accelerated with subspace accelerators. Helium-3 is then reloaded into the exciter, cooling systems activated, and capacitors recharged.
- Loading: Helium-3 and power is fed to the weapon from the hands of the Ryoko.
- Mode Selector: Selected by [Ke-M12-E3301 Weapon Subcomputer](#)
- Firing Modes: Toggled by [Ke-M12-E3301 Weapon Subcomputer](#)
- Safety Mechanism: Toggled by [Ke-M12-E3301 Weapon Subcomputer](#)
- Weapon Sight: KIES linked weapon sight.
- Attachment Hard Points: The weapon's custom railing can support different types of weapon sights should they be developed.

Ke-M19-W4310 Plasma Blade

The Ke-M19-W4310 Plasma Blade is a two-handed weapon modeled off of the  [nagamaki nodachi](#) the corporation's parent [Clan](#) is fond of. It was approved for use with the M19 Ryoko and given the nomenclature of Ke-M19-W4310 in [YE 43](#).

Nomenclature Information

- Power Cost: 1 TW
- Designer: [Ryu Heavy Industries](#)
- Manufacturer: [Ketsurui Zaibatsu](#)
- Name: Plasma Blade
- Nomenclature: Ke-M19-W4310
- Type: Plasma

- Role: Anti-Mecha Melee Weapon and Hull Cutting Tool
- Length: 1.5 meters folded and 6 meters when ignited (half is plasma).
- Mass: 500kg

Discharge Information

- Damage: Tier 8, Medium Anti-Mecha
- Energy Discharge Appearance: When activated, the magnetically contained plasma has a reddish-purple from the helium-3 being turned to plasma.
- Duration of Operation: Ke-M19-W4310 Plasma Blade can be constantly sustained as long as they are attached to a supported Mecha like the [M19 Ryoko Mecha](#). If the blade is detached from the hands, the blade will remain for a minute before its storage of Helium-3 and battery are exhausted.

Blade Mechanisms

- Mechanism: A magnetic field is generated from the hilt of the blade. Plasma is then generated from an exciter and directed into the magnetic field.
- Loading: Helium-3 gas in the hilt's storage tanks is replenished from the Ryoko as it is used. The internal battery and capacitors are also recharged if needed.
- Modes/Mode Selector: When inactivated, the Ke-M19-W4310 Plasma Blade can be collapsed to a smaller size, allowing for ease of storage within the [M19 Ryoko Mecha](#) and safe handling by unarmored personnel. This is accomplished by a series of interlocking joints.
- Safety Mechanism: A [Ke-M12-E3301 Weapon Subcomputer](#) is embedded within the hilt of the weapon.

Example Loadout: Orbital Support

Below is the standard loadout for deployments as long-range support for Fleets/Orbital Artillery:

- Left Shoulder: Ke-M19-W4315 Quad Mini-Missile Rack (1 TW)
- Right Shoulder: Ke-M19-W4315 Quad Mini-Missile Rack (1 TW)
- Left Hip: [Ke-M19-G4315 Aether Beam Cannon Generator](#)
- Right Hip: [Ke-M19-M4302 Weapon Mount](#)
- Left Outer Calf: Nothing
- Right Outer Calf: Nothing
- Left Forearm: Ke-M19-W4305 Multipurpose Forearm Weapon (0.5 TW)
- Right Forearm: Ke-M19-W4305 Multipurpose Forearm Weapon (0.5 TW)
- Handheld: [Ke-M19-W4300 Aether Beam Cannon](#) (4 TW)
- Handheld (stored): [Ke-M19-W4310 Plasma Blade](#)
- Built-in Systems:
 - 2x expanded [Ke-M12-W3302 Nodal Support Drone Hangar](#) (16 drones) (1 TEWG)
 - 2 Countermeasure Pods equal with 140 (70 each) defensive [Star Army Mini-Missiles, Type 41](#) (1 TEWG)

Power Load: 8 TWs and 2 TEWGs

OOC Notes

[Demibear](#) created this article on 2021/01/11 22:41.

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